

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.
661 Andersen Drive
Suite 200
Pittsburgh, PA - 15220-2745
Phone No: 412-921-7090

ORDER ID : P5314
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : P5314

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P5314-01
P5314-02
P5314-03
P5314-04

Client Sample Number

BP-VPB-190A-TB-20241213
BP-VPB-190A-GW-678-680
BP-VPB-190A-GW-698-700
VPB190A-HYD-20241217

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 :



NYDOH CERTIFICATION NO - 11376

APPROVED

Date: 12/30/2024

By Mohammad Ahmed (Laboratory Manager) at 10:53 am, Jan 03, 2025

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # P5314

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 12/17/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for BP-VPB-190A-GW-678-680 [Terphenyl-d14 - 140%], VPB190A-HYD-20241217 [2-Fluorobiphenyl - 107%, Terphenyl-d14 - 170%], PB165724BL [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%], PB165724BS [2-Fluorobiphenyl - 115%, Nitrobenzene-d5 - 125%], PB165724BSD [2-Fluorobiphenyl - 116% and Nitrobenzene-d5 - 140%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate 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 BN035749.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035776.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

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

The Tuning criteria met requirements.

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

F. Manual Integration Comments:

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

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

Signature _____



APPROVED

By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025

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

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

CHEMTECH PROJECT NUMBER: P5314

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 BN035749.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken. The Continuous Calibration File ID BN035776.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken. The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓

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

(CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for BP-VPB-190A-GW-678-680 [Terphenyl-d14 - 140%], VPB190A-HYD-20241217 [2-Fluorobiphenyl - 107%, Terphenyl-d14 - 170%], PB165724BL [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%], PB165724BS [2-Fluorobiphenyl - 115%, Nitrobenzene-d5 - 125%], PB165724BSD [2-Fluorobiphenyl - 116% and Nitrobenzene-d5 - 140%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples . The Blank Spike Duplicate 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:

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.

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

QA REVIEW

APPROVED

By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5314

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: Mohammad Ahmed

Date:01-03-2025

LAB CHRONICLE

OrderID:	P5314	OrderDate:	12/17/2024 3:43:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5314-02	BP-VPB-190A-GW-678 -680	Water			12/13/24			12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24	
P5314-04	VPB190A-HYD-20241 217	Water			12/17/24			12/17/24
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24	



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Hit Summary Sheet SW-846

SDG No.: P5314
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-190A-GW-678-680								
P5314-02	BP-VPB-190A-GW-678-WATER	1,4-Dioxane	1.400		0.09	0.25	0.25	ug/L
		Total Svoc :		1.40				
		Total Concentration:		1.40				



QC SUMMARY

- 1
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- 8
- 9
- 10
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Surrogate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5314-02	BP-VPB-190A-GW-678-680	2-Methylnaphthalene-d10	0.4	0.39	96		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.41	102		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.56	140	*	58	132
P5314-04	VPB190A-HYD-20241217	2-Methylnaphthalene-d10	0.4	0.13	34		30	150
		Fluoranthene-d10	0.4	0.17	43		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.43	107	*	53	106
		Terphenyl-d14	0.4	0.68	170	*	58	132
PB165724BL	PB165724BL	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
PB165724BS	PB165724BS	2-Methylnaphthalene-d10	0.4	0.56	139		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.50	125	*	55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.50	125		58	132
PB165724BSD	PB165724BSD	2-Methylnaphthalene-d10	0.4	0.53	132		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.56	140	*	55	111
		2-Fluorobiphenyl	0.4	0.47	116	*	53	106
		Terphenyl-d14	0.4	0.51	128		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035764.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB165724BS	1,4-Dioxane	0.4	0.48	ug/L	120				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035853.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165724BSD	1,4-Dioxane	0.4	0.45	ug/L	113	6			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165724BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5314

SAS No.: P5314 SDG NO.: P5314

Lab File ID: BN035846.D

Lab Sample ID: PB165724BL

Instrument ID: BNA_N

Date Extracted: 12/18/2024

Matrix: (soil/water) Water

Date Analyzed: 12/26/2024

Level: (low/med) LOW

Time Analyzed: 10:35

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165724BSD	PB165724BSD	BN035853.D	12/26/2024
PB165724BS	PB165724BS	BN035764.D	12/21/2024
BP-VPB-190A-GW-678-680	P5314-02	BN035785.D	12/23/2024
VPB190A-HYD-20241217	P5314-04	BN035786.D	12/23/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5314 SDG NO.: P5314Lab File ID: BN035349.DDFTPP Injection Date: 11/27/2024Instrument ID: BNA_NDFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5314SDG NO.: P5314Lab File ID: BN035748.DDFTPP Injection Date: 12/20/2024Instrument ID: BNA_NDFTPP Injection Time: 18:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	37.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	29.5
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	13.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.3 (19.1) 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	BN035749.D	12/20/2024	19:33
PB165724BS	PB165724BS	BN035764.D	12/21/2024	04:34
SSTDCCC0.4EC	SSTDCCC0.4	BN035765.D	12/21/2024	05:10



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5314 SDG NO.: P5314Lab File ID: BN035775.DDFTPP Injection Date: 12/23/2024Instrument ID: BNA_NDFTPP Injection Time: 09:43

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

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035776.D	12/23/2024	10:22
BP-VPB-190A-GW-678-680	P5314-02	BN035785.D	12/23/2024	15:41
VPB190A-HYD-20241217	P5314-04	BN035786.D	12/23/2024	16:17
SSTDCCC0.4EC	SSTDCCC0.4	BN035792.D	12/23/2024	19:51



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5314 SDG NO.: P5314Lab File ID: BN035844.DDFTPP Injection Date: 12/26/2024Instrument ID: BNA_NDFTPP Injection Time: 09:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	32.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (20.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035845.D	12/26/2024	09:58
PB165724BL	PB165724BL	BN035846.D	12/26/2024	10:35
PB165724BSD	PB165724BSD	BN035853.D	12/26/2024	14:54
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.: P5314 SAS No.: P5314 SDG NO.: P5314

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

Lab File ID: BN035749.D Time Analyzed: 19:33

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	2885	7.272	7460	10.01	4592	13.93
UPPER LIMIT	5770	7.772	14920	10.509	9184	14.425
LOWER LIMIT	1442.5	6.772	3730	9.509	2296	13.425
EPA SAMPLE NO.						
01 PB165724BS	2647	7.27	6538	10.01	3740	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.: P5314 SAS No.: P5314 SDG NO.: P5314

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

Lab File ID: BN035749.D Time Analyzed: 19:33

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	9182	16.698	7719	20.956	7943	23.038
UPPER LIMIT	18364	17.198	15438	21.456	15886	23.538
LOWER LIMIT	4591	16.198	3859.5	20.456	3971.5	22.538
EPA SAMPLE NO.						
01 PB165724BS	6891	16.70	6144	20.96	6576	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.: P5314 SAS No.: P5314 SDG NO.: P5314

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

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

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	3884	7.264	10099	10.01	5893	13.92
UPPER LIMIT	7768	7.764	20198	10.509	11786	14.424
LOWER LIMIT	1942	6.764	5049.5	9.509	2946.5	13.424
EPA SAMPLE NO.						
01 BP-VPB-190A-GW-678-680	3452	7.26	8948	10.01	5551	13.92
02 VPB190A-HYD-20241217	4132	7.26	10947	10.01	6411	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.: P5314 SAS No.: P5314 SDG NO.: P5314

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

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

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	11548	16.698	8770	20.947	8918	23.026
UPPER LIMIT	23096	17.198	17540	21.447	17836	23.526
LOWER LIMIT	5774	16.198	4385	20.447	4459	22.526
EPA SAMPLE NO.						
01 BP-VPB-190A-GW-678-680	10343	16.70	8364	20.95	8390	23.03
02 VPB190A-HYD-20241217	11585	16.70	7747	20.95	5708	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.: P5314 SAS No.: P5314 SDG NO.: P5314

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 PB165724BL	4513	7.26	10649	10.00	6575	13.92
02 PB165724BSD	2938	7.26	6908	10.00	3870	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.: P5314 SAS No.: P5314 SDG NO.: P5314

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 PB165724BL	14052	16.70	10269	20.95	9894	23.03
02 PB165724BSD	7401	16.70	5744	20.95	6254	23.02

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24
Project:	CTO WE13		Date Received:	12/17/24
Client Sample ID:	BP-VPB-190A-GW-678-680		SDG No.:	P5314
Lab Sample ID:	P5314-02		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	800	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
BN035785.D	1	12/18/24 12:50	12/23/24 15:41	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.40		0.090	0.25	0.25	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	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	3450	7.264				
1146-65-2	Naphthalene-d8	8950	10.009				
15067-26-2	Acenaphthene-d10	5550	13.924				
1517-22-2	Phenanthrene-d10	10300	16.698				
1719-03-5	Chrysene-d12	8360	20.947				
1520-96-3	Perylene-d12	8390	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 : BN035785.D
Acq On : 23 Dec 2024 15:41
Operator : RC/JU
Sample : P5314-02
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

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

Quant Time: Dec 23 16:19:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3452	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8948	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	5551	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10343	0.400	ng	0.00
29) Chrysene-d12	20.947	240	8364	0.400	ng	0.00
35) Perylene-d12	23.032	264	8390	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	1274	0.147	ng	0.00
5) Phenol-d6	6.477	99	870	0.084	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2226m	0.407	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5390	0.385	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	819	0.208	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	8168	0.389	ng	-0.02
27) Fluoranthene-d10	18.752	212	11895	0.406	ng	0.00
31) Terphenyl-d14	19.379	244	9273	0.562	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.974	88	3613	1.095	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	1156	0.100	ng	# 99

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

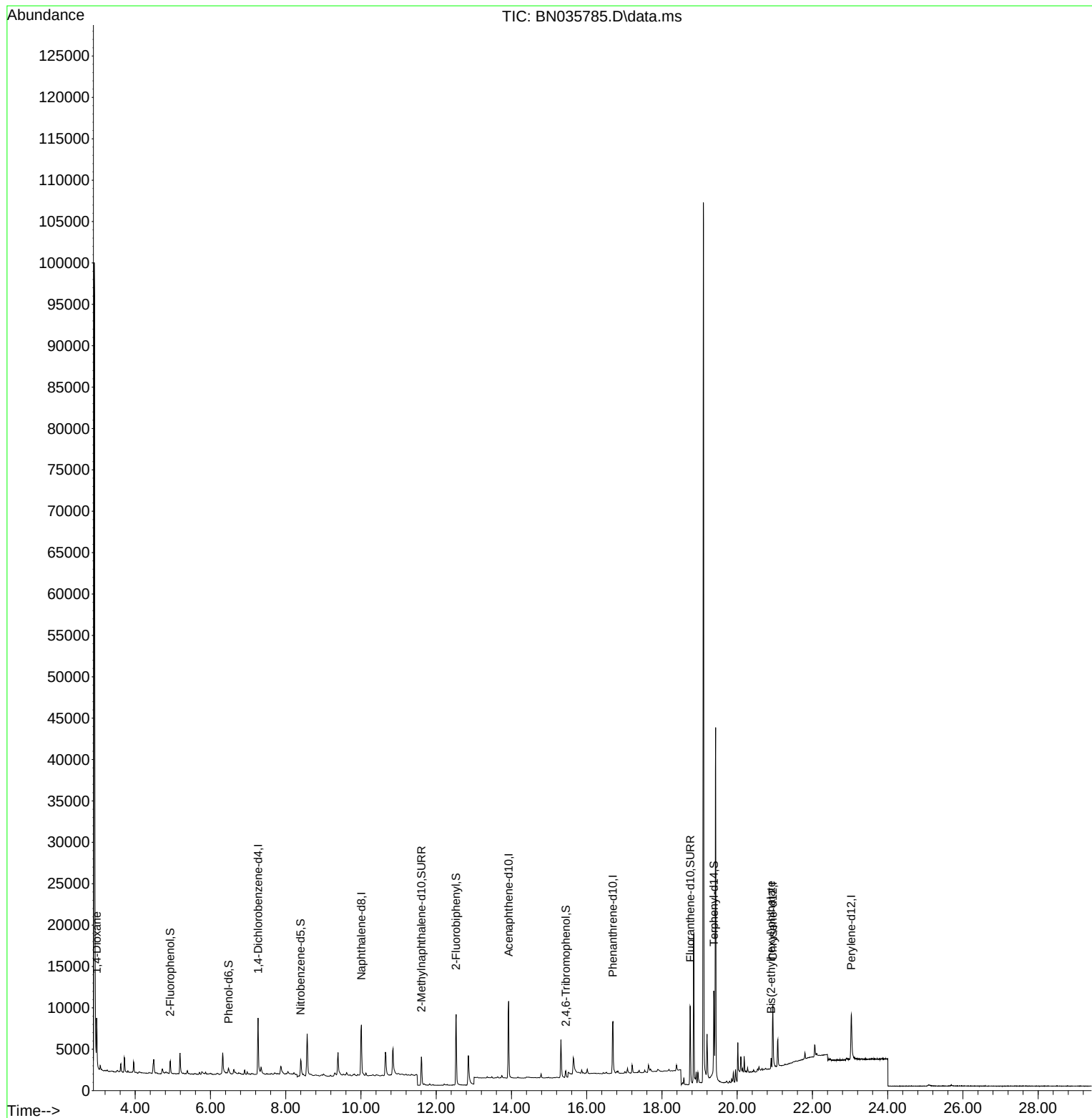
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Data File : BN035785.D
Acq On : 23 Dec 2024 15:41
Operator : RC/JU
Sample : P5314-02
Misc :
ALS Vial : 67 Sample Multiplier: 1

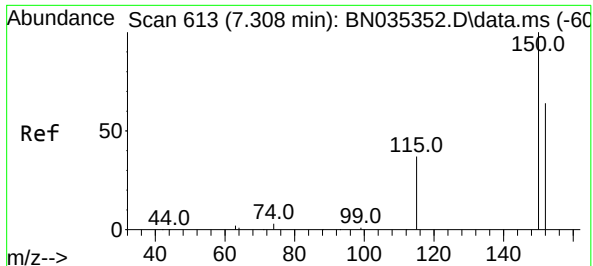
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

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

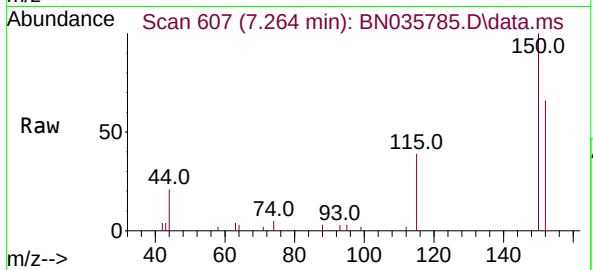
Quant Time: Dec 23 16:19:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

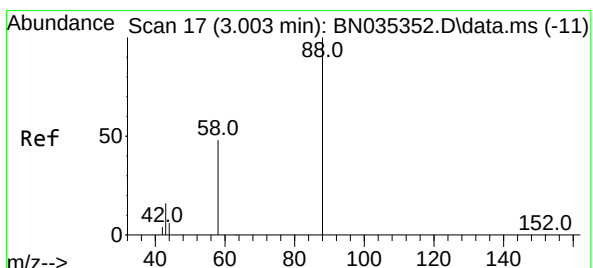
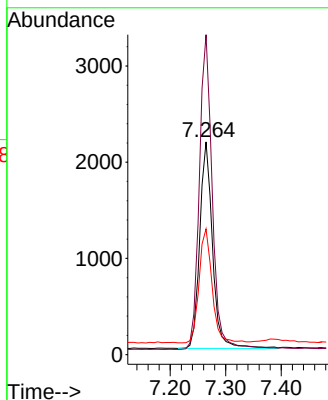
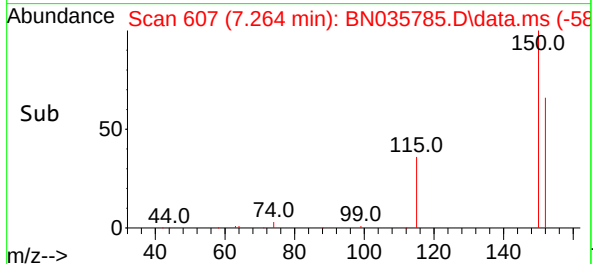
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680



Tgt Ion:152 Resp: 3452
Ion Ratio Lower Upper
152 100
150 150.4 124.0 186.0
115 59.1 49.6 74.4

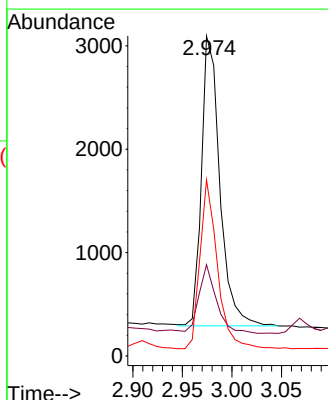
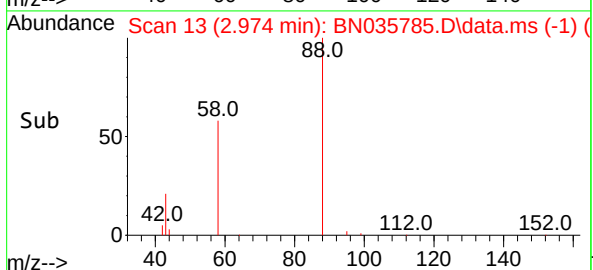
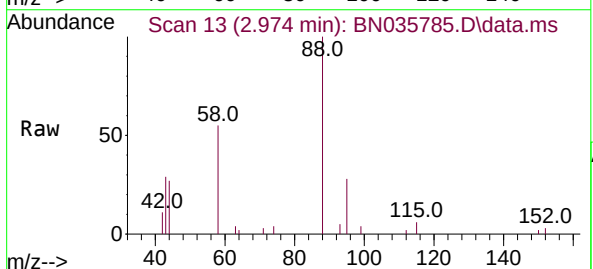
Manual Integrations
APPROVED

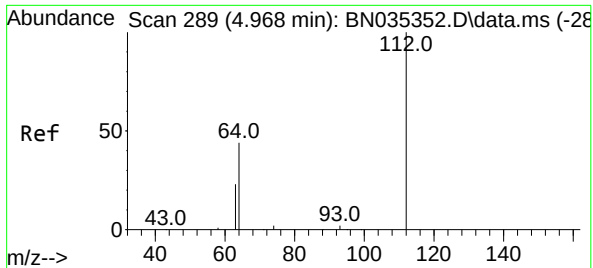
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 1.095 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 88 Resp: 3613
Ion Ratio Lower Upper
88 100
43 22.7 17.2 25.8
58 55.4 44.5 66.7





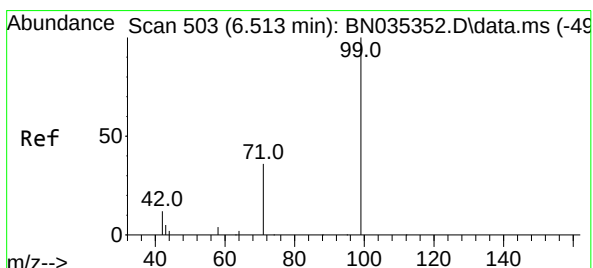
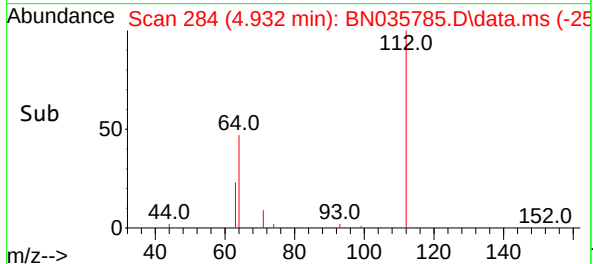
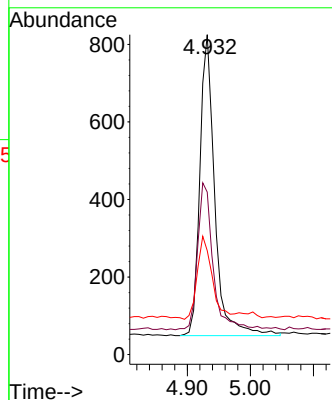
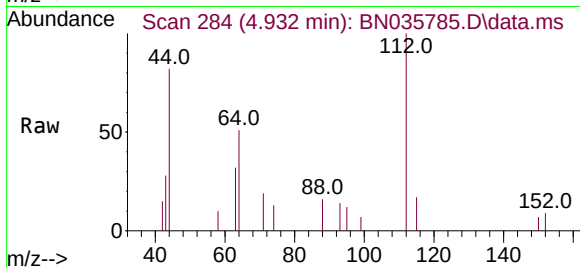
#4
2-Fluorophenol
Concen: 0.147 ng
RT: 4.932 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion:112 Resp: 1274
Ion Ratio Lower Upper
112 100
64 51.5 39.8 59.8
63 27.9 21.0 31.6

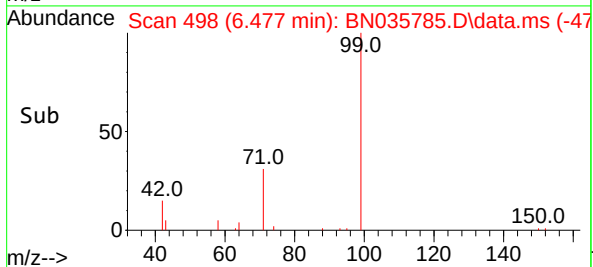
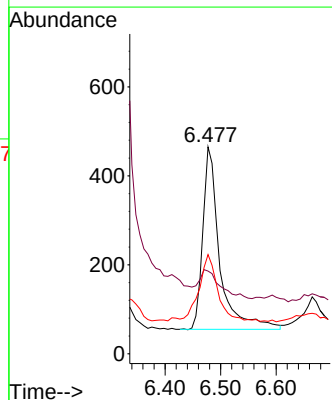
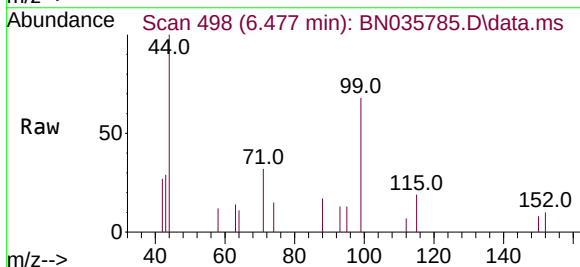
Manual Integrations
APPROVED

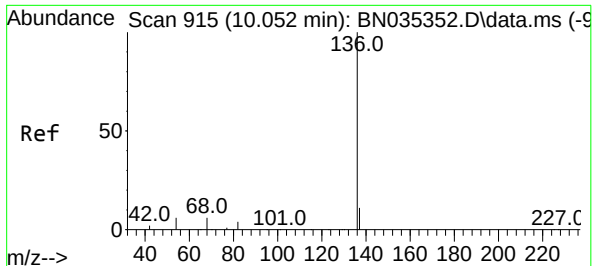
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#5
Phenol-d6
Concen: 0.084 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

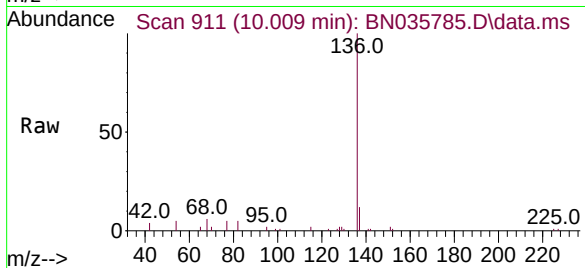
Tgt Ion: 99 Resp: 870
Ion Ratio Lower Upper
99 100
42 19.7 11.4 17.2#
71 41.5 29.3 43.9





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

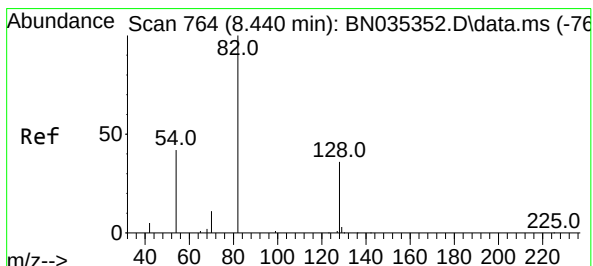
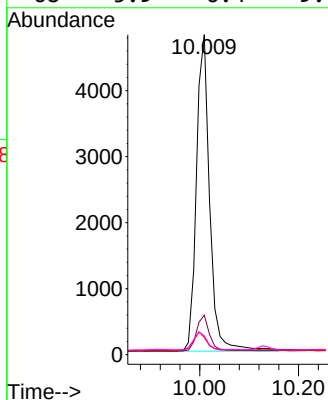
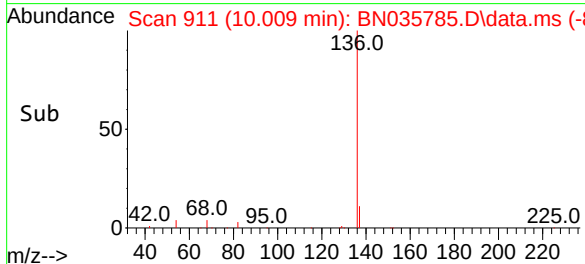
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680



Tgt Ion: 136 Resp: 8948
Ion Ratio Lower Upper
136 100
137 12.4 10.2 15.2
54 5.4 6.1 9.1
68 5.9 6.4 9.6

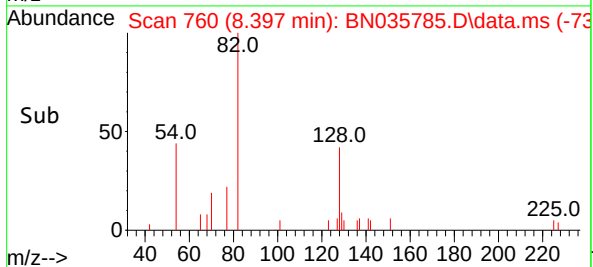
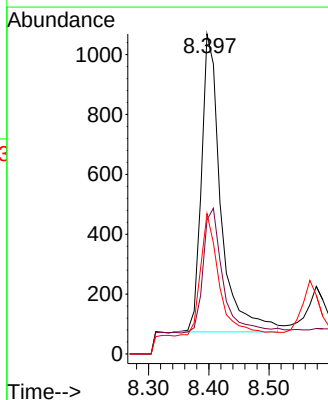
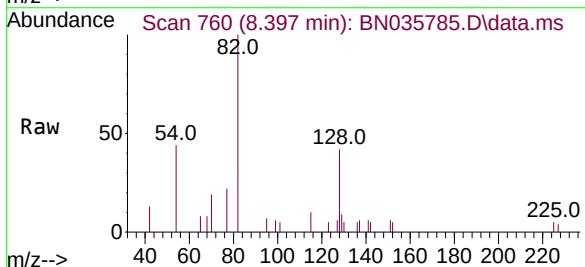
Manual Integrations
APPROVED

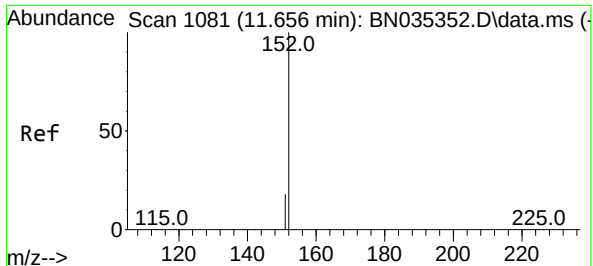
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.407 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

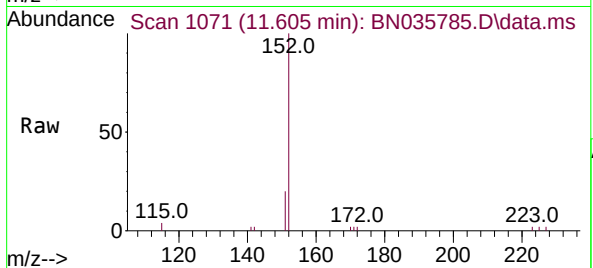
Tgt Ion: 82 Resp: 2226
Ion Ratio Lower Upper
82 100
128 41.9 33.4 50.0
54 43.9 36.7 55.1





#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 11.605 min Scan# 1081
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

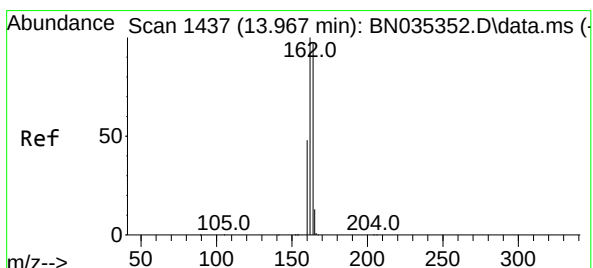
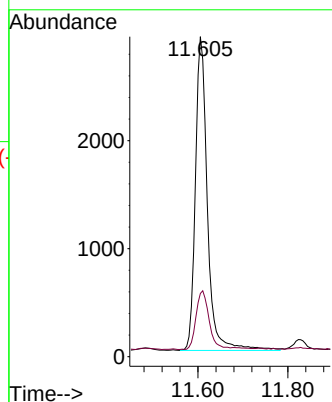
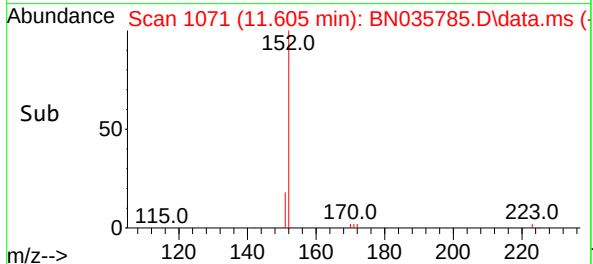
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680



Tgt Ion:152 Resp: 5390
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

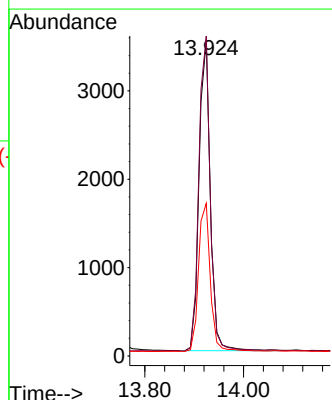
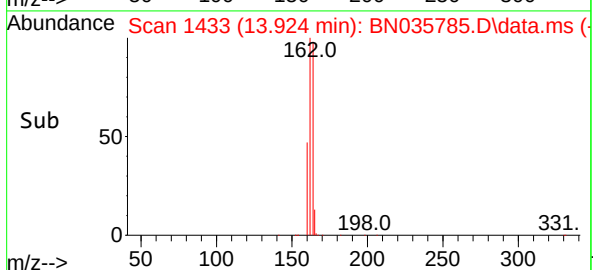
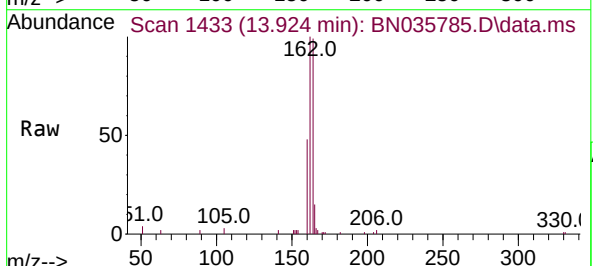
Manual Integrations
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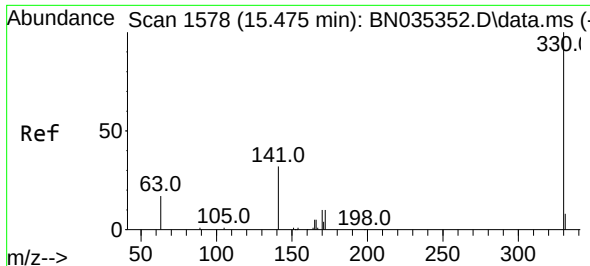
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

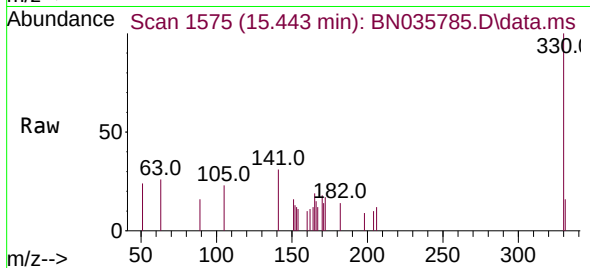
Tgt Ion:164 Resp: 5551
Ion Ratio Lower Upper
164 100
162 101.2 82.2 123.2
160 48.3 40.1 60.1





#14
2,4,6-Tribromophenol
Concen: 0.208 ng
RT: 15.443 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

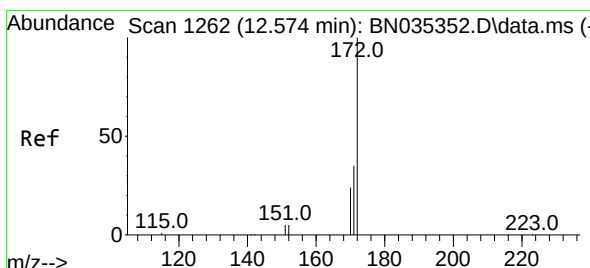
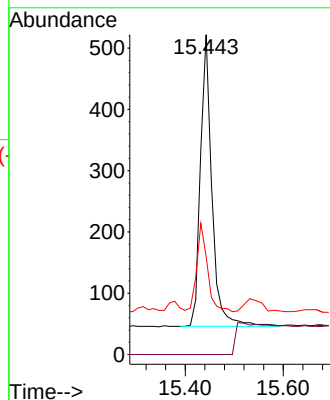
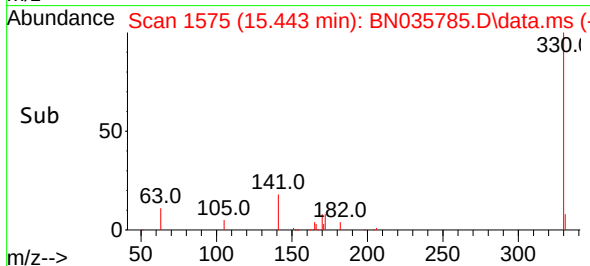
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680



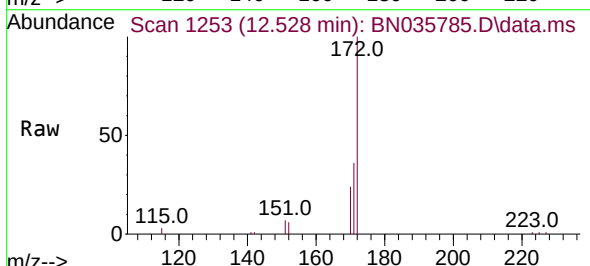
Tgt Ion:330 Resp: 819
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 26.9 26.6 40.0

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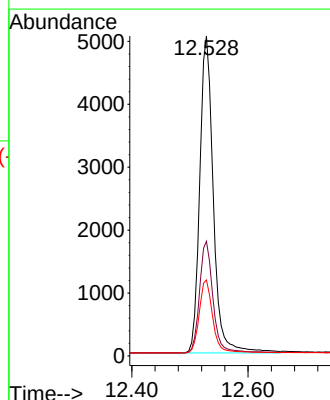
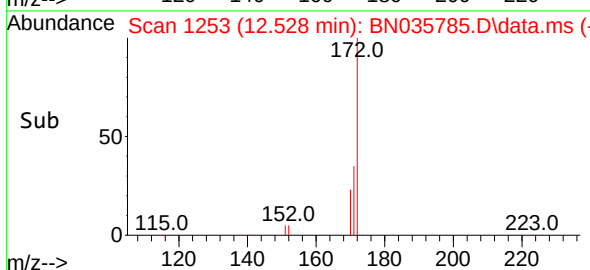
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

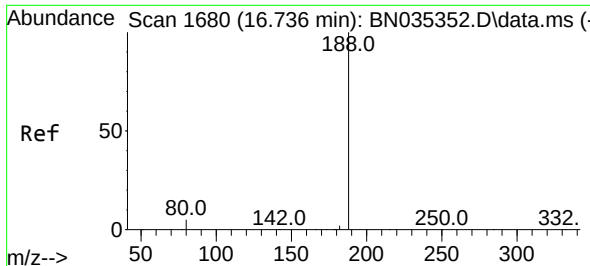


#15
2-Fluorobiphenyl
Concen: 0.389 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41



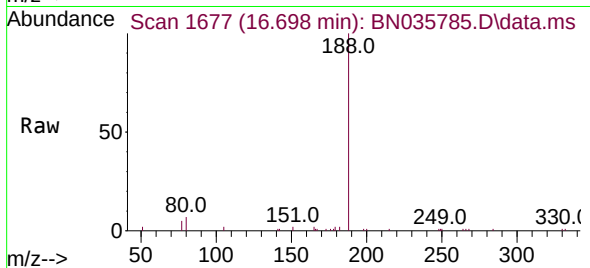
Tgt Ion:172 Resp: 8168
Ion Ratio Lower Upper
172 100
171 35.8 29.0 43.4
170 23.8 19.8 29.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

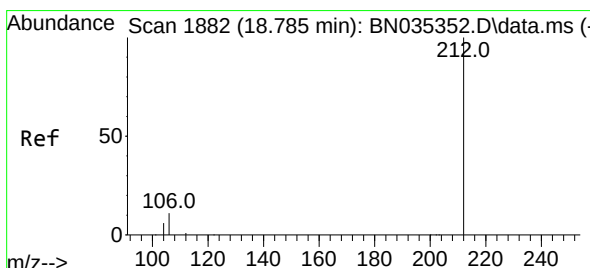
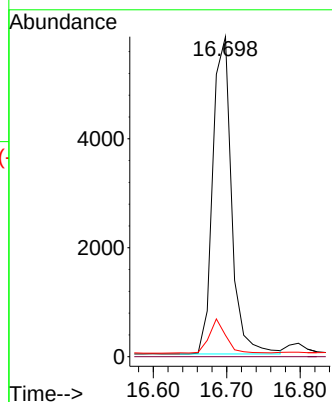
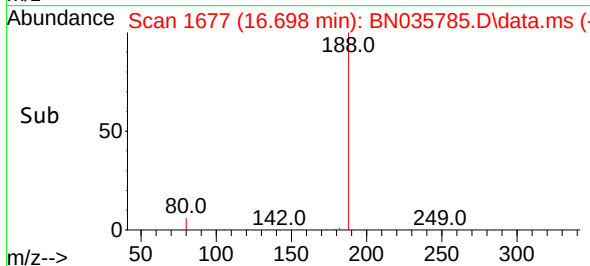
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680



Tgt Ion:188 Resp: 1034
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.7 4.6 6.8

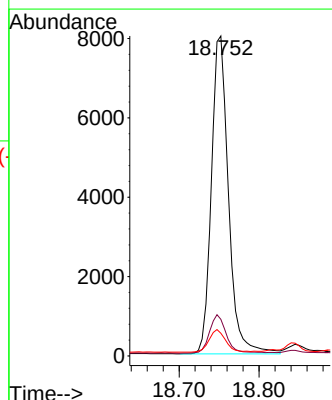
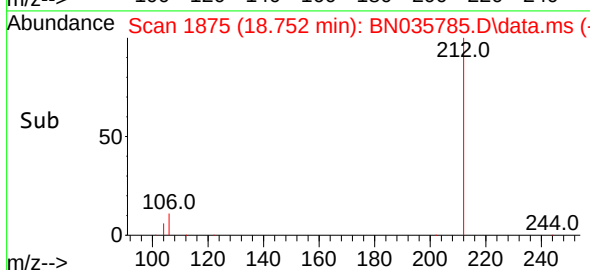
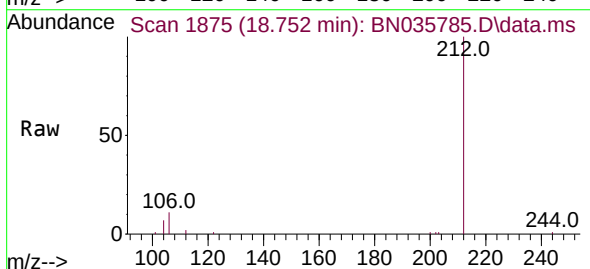
Manual Integrations
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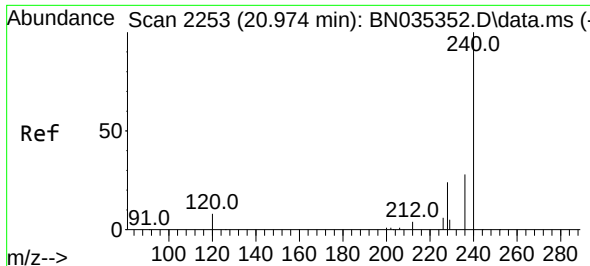
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#27
Fluoranthene-d10
Concen: 0.406 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:212 Resp: 11895
Ion Ratio Lower Upper
212 100
106 11.9 9.2 13.8
104 6.8 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035785.D

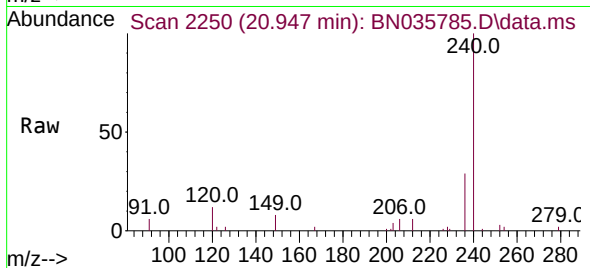
Acq: 23 Dec 2024 15:41

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190A-GW-678-680

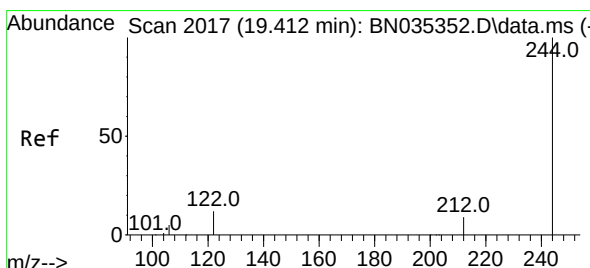
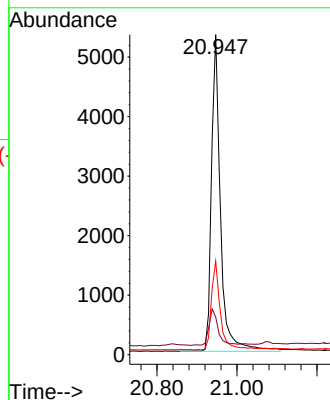
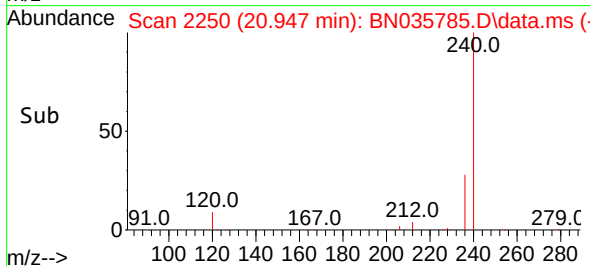


Tgt Ion:	240	Resp:	8364
Ion Ratio	Lower	Upper	
240	100		
120	11.7	7.9	11.9
236	29.2	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#31

Terphenyl-d14

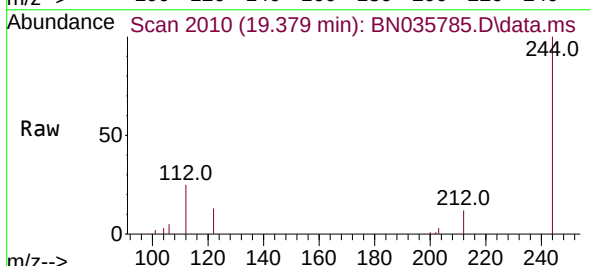
Concen: 0.562 ng

RT: 19.379 min Scan# 2010

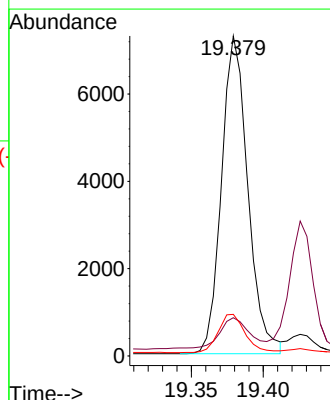
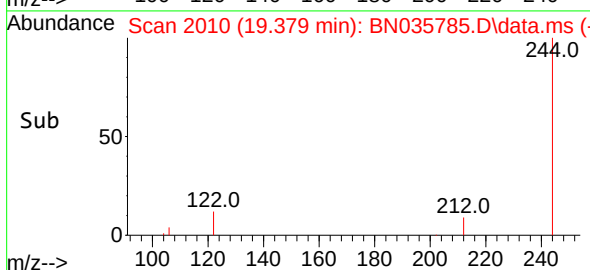
Delta R.T. -0.009 min

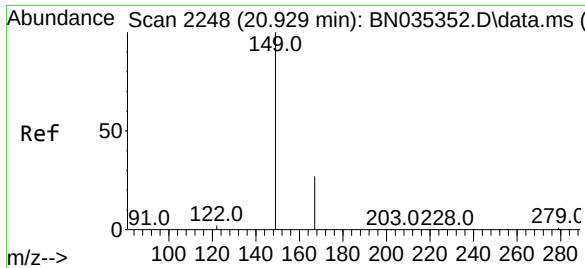
Lab File: BN035785.D

Acq: 23 Dec 2024 15:41



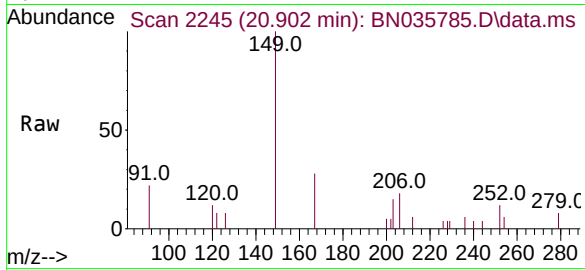
Tgt Ion:	244	Resp:	9273
Ion Ratio	Lower	Upper	
244	100		
212	12.0	8.1	12.1
122	13.0	10.3	15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 20.902 min Scan# 2115
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

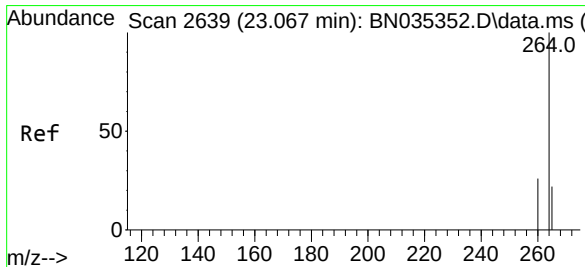
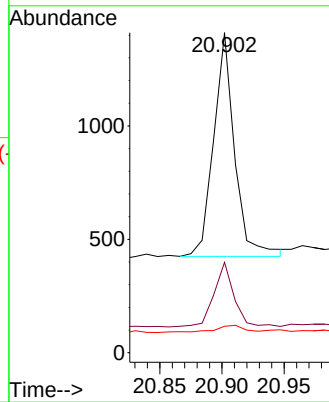
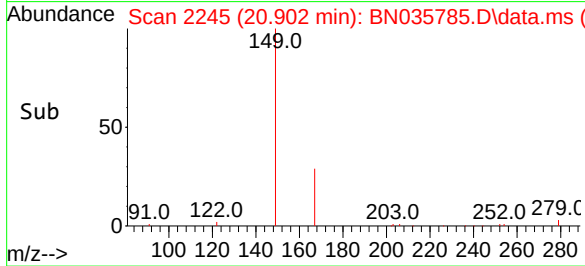
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680



Tgt Ion:149 Resp: 1150
Ion Ratio Lower Upper
149 100
167 27.7 22.2 33.4
279 4.8 2.7 4.1

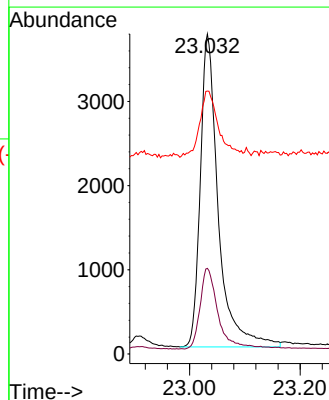
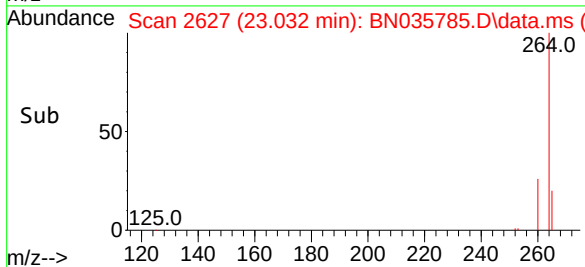
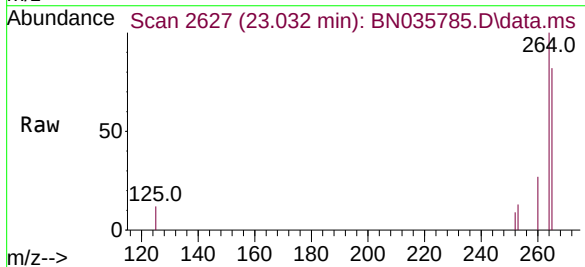
Manual Integrations
APPROVED

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: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:264 Resp: 8390
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 82.2 40.2 60.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/17/24
Project:	CTO WE13	Date Received:	12/17/24
Client Sample ID:	VPB190A-HYD-20241217	SDG No.:	P5314
Lab Sample ID:	P5314-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	940 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
BN035786.D	1	12/18/24 12:50	12/23/24 16:17	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.13		30 - 150		34%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.17		30 - 150		43%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		107%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.68	*	58 - 132		170%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4130		7.264			
1146-65-2	Naphthalene-d8	10900		10.009			
15067-26-2	Acenaphthene-d10	6410		13.925			
1517-22-2	Phenanthrene-d10	11600		16.698			
1719-03-5	Chrysene-d12	7750		20.947			
1520-96-3	Perylene-d12	5710		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 : BN035786.D
Acq On : 23 Dec 2024 16:17
Operator : RC/JU
Sample : P5314-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Quant Time: Dec 23 17:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4132	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	10947	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	6411	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11585	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7747	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	5708	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	87	0.008	ng	0.00
5) Phenol-d6	6.499	99	29	0.002	ng	0.00
8) Nitrobenzene-d5	8.397	82	2793m	0.418	ng	-0.01
11) 2-Methylnaphthalene-d10	11.616	152	2304	0.134	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	575	0.126	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	10360	0.427	ng	-0.01
27) Fluoranthene-d10	18.752	212	5607	0.171	ng	0.00
31) Terphenyl-d14	19.379	244	10391	0.680	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	20.902	149	1139	0.106	ng	Qvalue 99

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

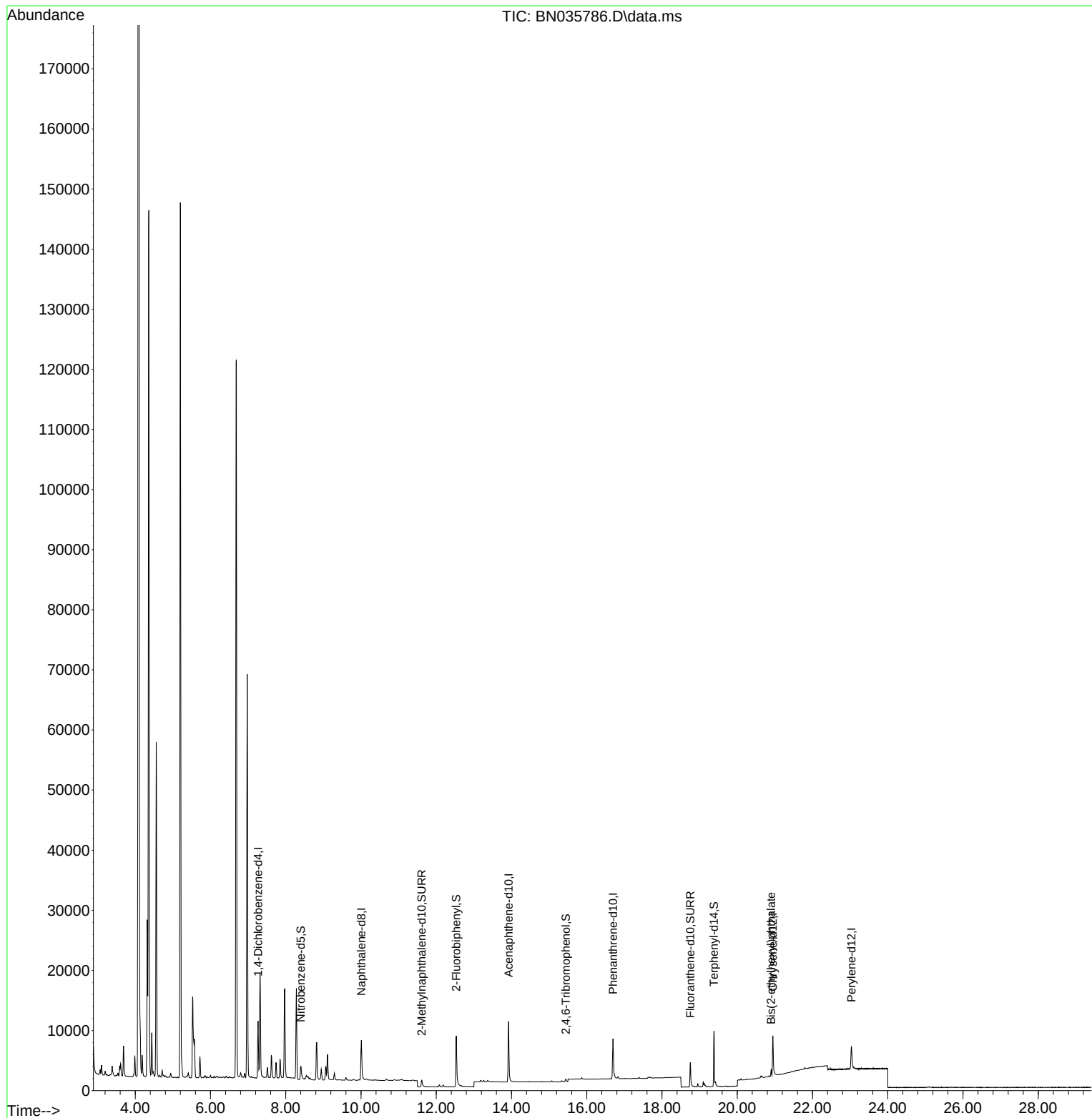
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035786.D
Acq On : 23 Dec 2024 16:17
Operator : RC/JU
Sample : P5314-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

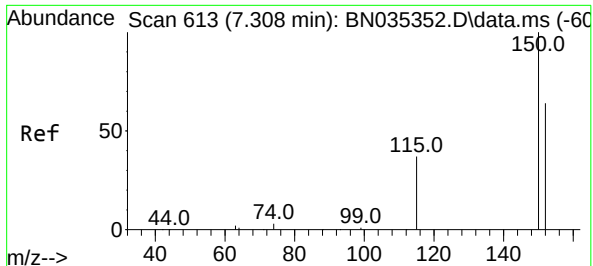
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations
APPROVED

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

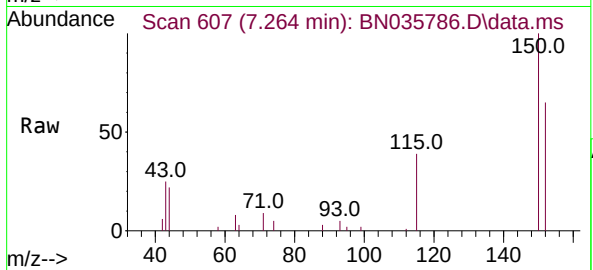
Quant Time: Dec 23 17:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 607
Delta R.T. -0.008 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

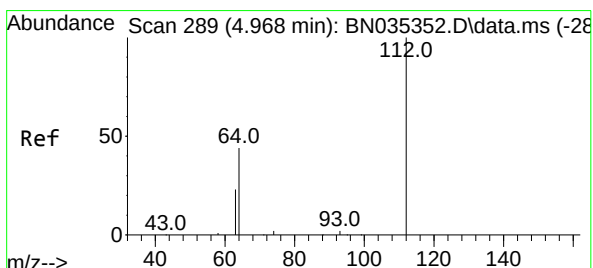
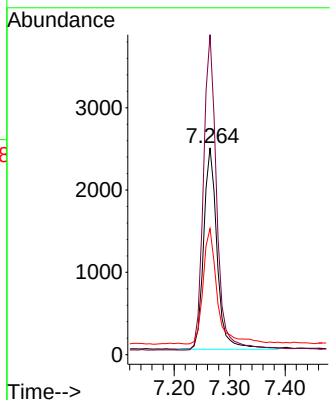
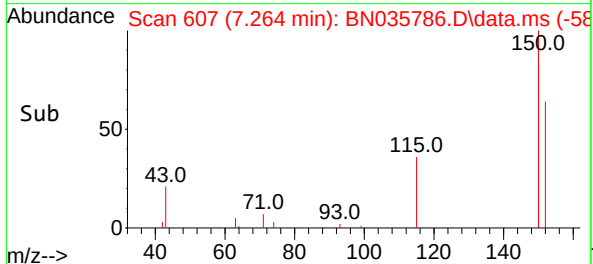
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217



Tgt Ion:152 Resp: 413
Ion Ratio Lower Upper
152 100
150 154.7 124.0 186.0
115 60.9 49.6 74.4

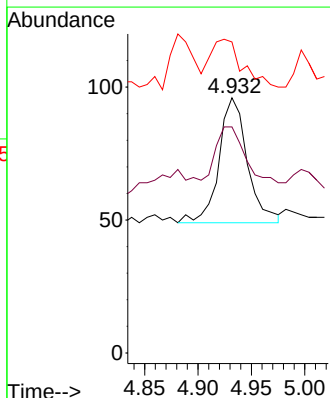
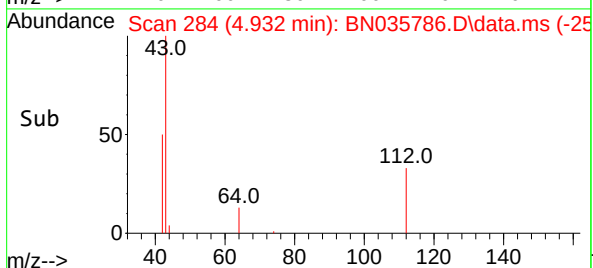
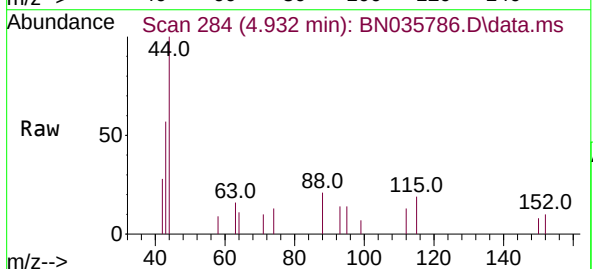
Manual Integrations
APPROVED

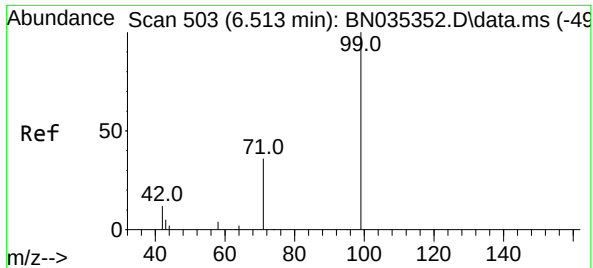
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.008 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

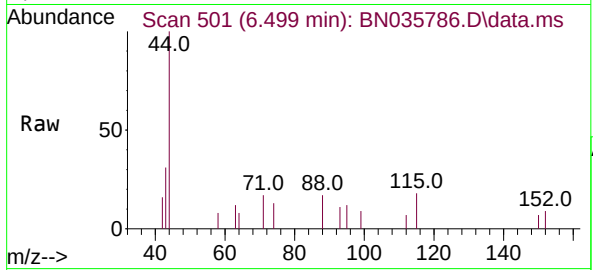
Tgt Ion:112 Resp: 87
Ion Ratio Lower Upper
112 100
64 44.8 39.8 59.8
63 59.8 21.0 31.6#





#5
Phenol-d6
Concen: 0.002 ng
RT: 6.499 min Scan# 503
Delta R.T. 0.007 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

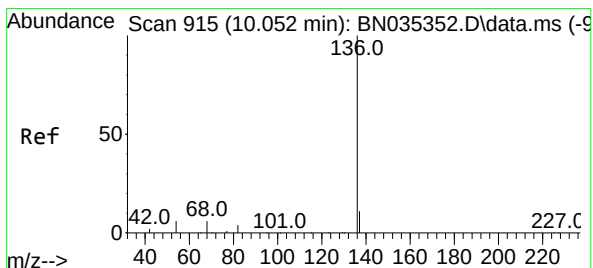
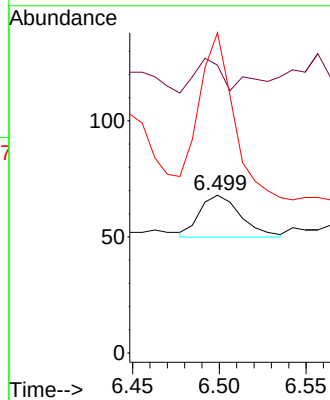
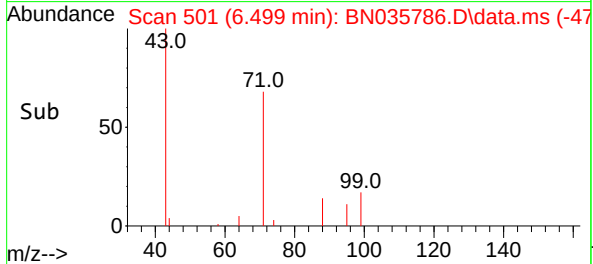
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217



Tgt Ion: 99 Resp: 29
Ion Ratio Lower Upper
99 100
42 0.0 11.4 17.2
71 0.0 29.3 43.9

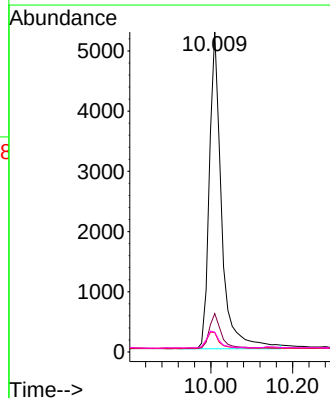
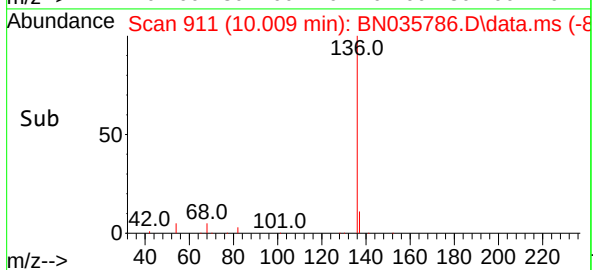
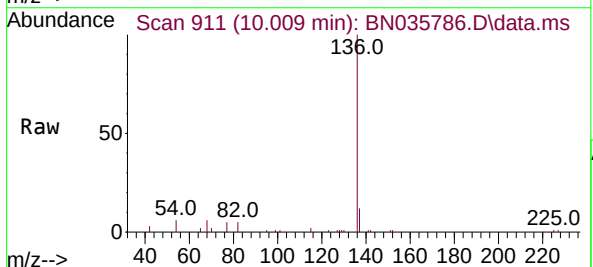
Manual Integrations
APPROVED

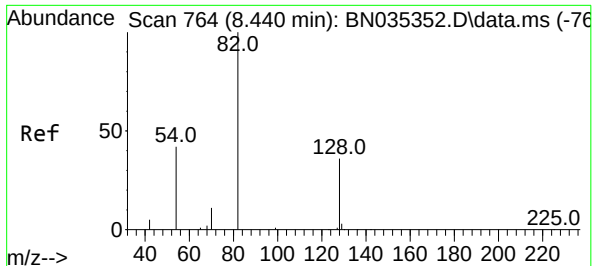
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:136 Resp: 10947
Ion Ratio Lower Upper
136 100
137 12.0 10.2 15.2
54 6.1 6.1 9.1#
68 6.2 6.4 9.6#





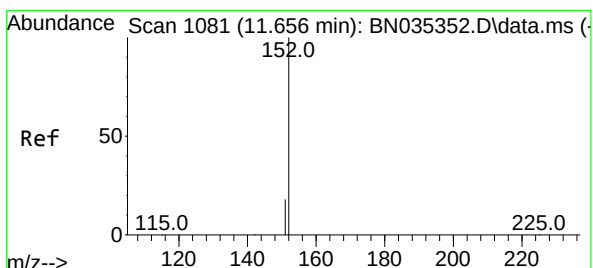
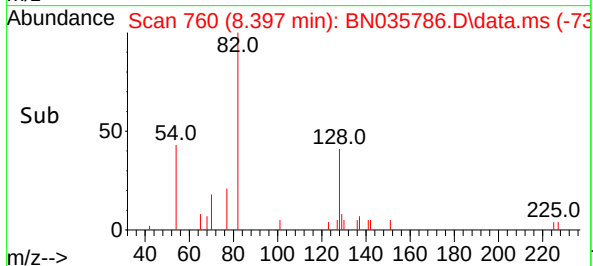
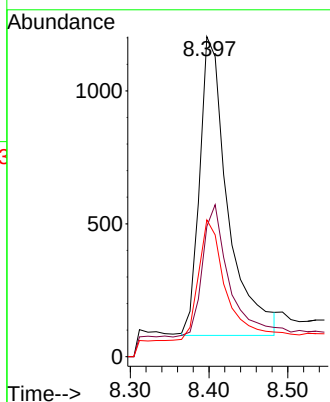
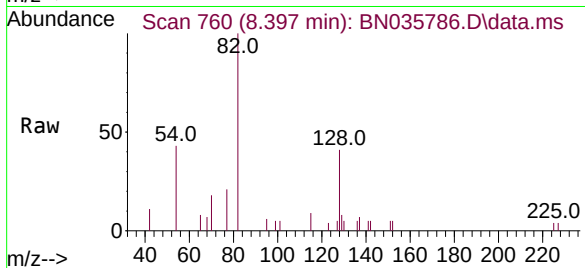
#8
Nitrobenzene-d5
Concen: 0.418 ng m
RT: 8.397 min Scan# 709
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion: 82 Resp: 279
Ion Ratio Lower Upper
82 100
128 40.7 33.4 50.0
54 42.8 36.7 55.1

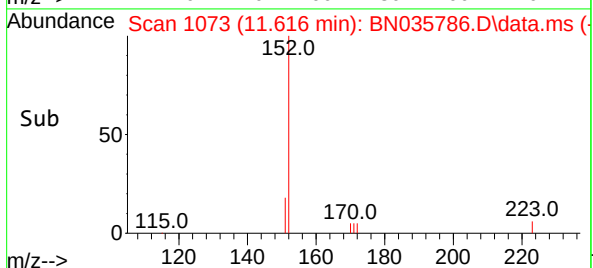
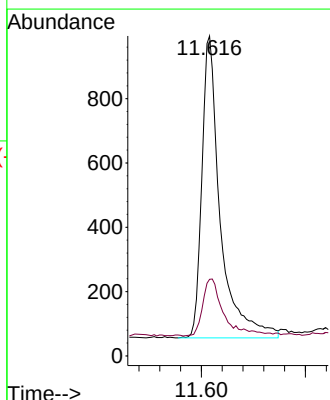
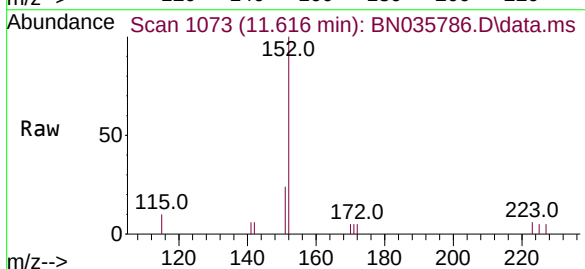
Manual Integrations
APPROVED

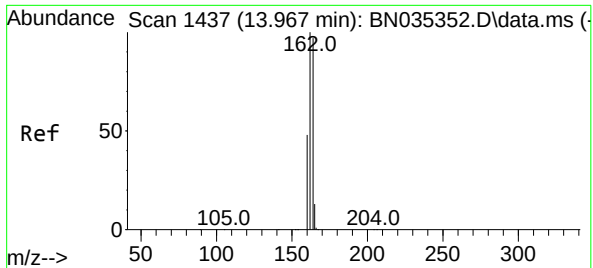
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#11
2-Methylnaphthalene-d10
Concen: 0.134 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

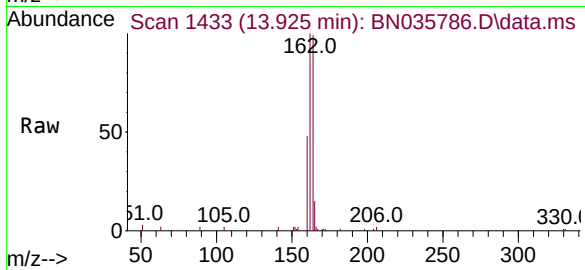
Tgt Ion:152 Resp: 2304
Ion Ratio Lower Upper
152 100
151 21.6 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

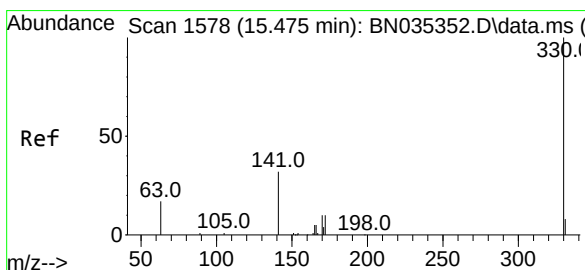
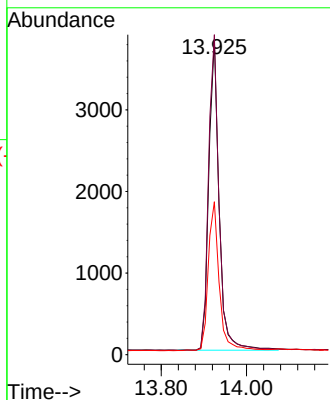
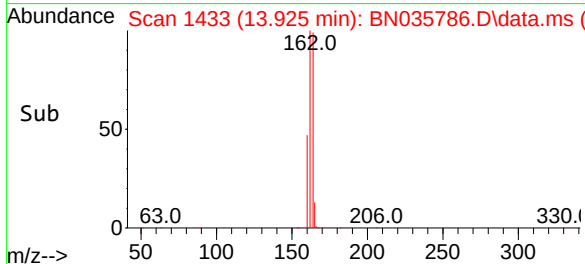
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217



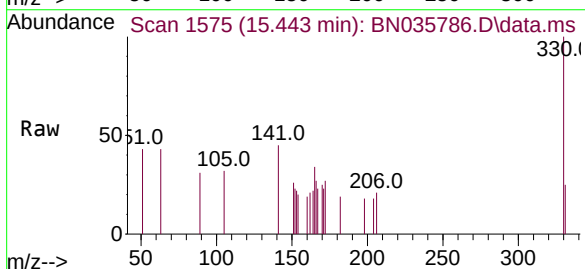
Tgt Ion:164 Resp: 641
Ion Ratio Lower Upper
164 100
162 101.4 82.2 123.2
160 48.5 40.1 60.1

Manual Integrations
APPROVED

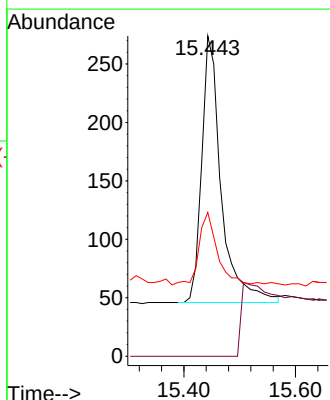
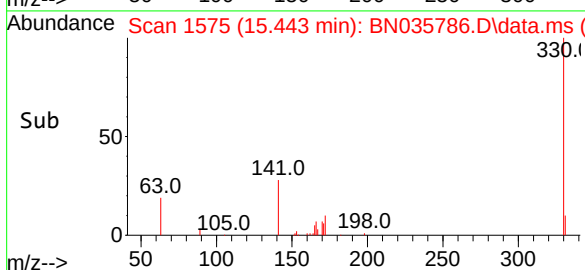
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

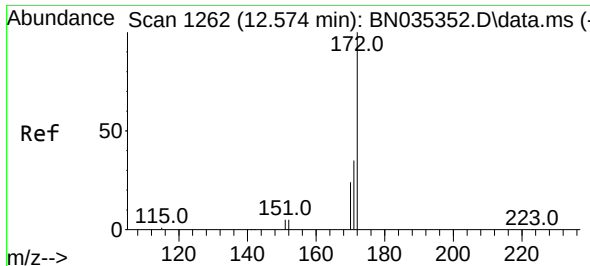


#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17



Tgt Ion:330 Resp: 575
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 23.8 26.6 40.0#





#15

2-Fluorobiphenyl

Concen: 0.427 ng

RT: 12.534 min Scan# 1

Delta R.T. -0.010 min

Lab File: BN035786.D

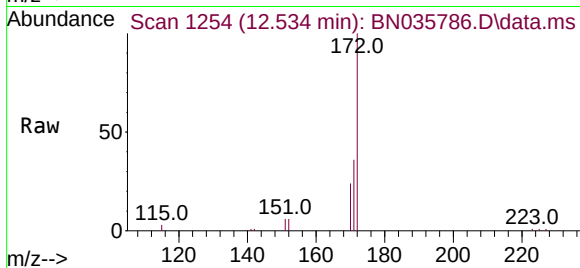
Acq: 23 Dec 2024 16:17

Instrument :

BNA_N

ClientSampleId :

VPB190A-HYD-20241217



Tgt Ion:172 Resp: 10360

Ion Ratio Lower Upper

172 100

171 36.1 29.0 43.4

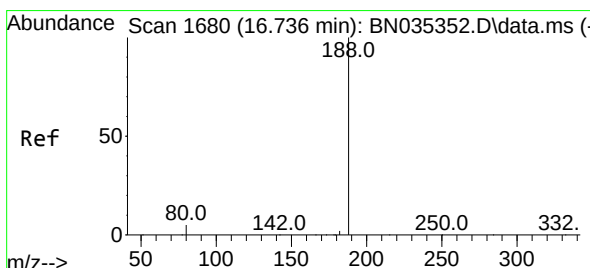
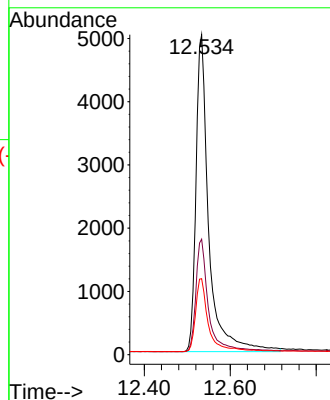
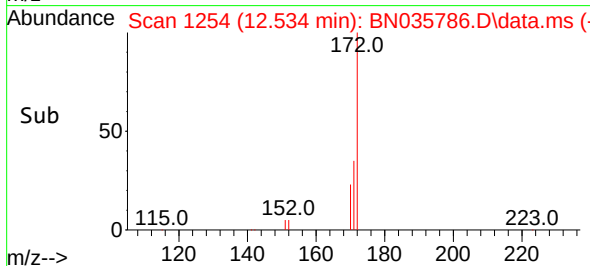
170 23.7 19.8 29.8

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: BN035786.D

Acq: 23 Dec 2024 16:17

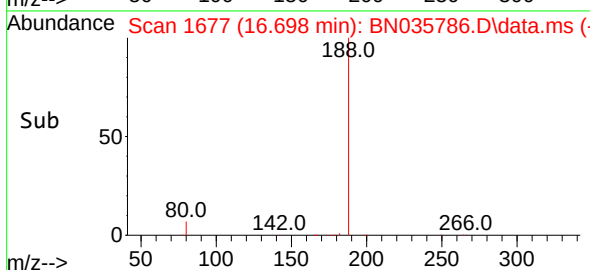
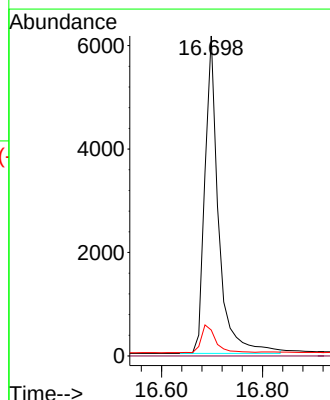
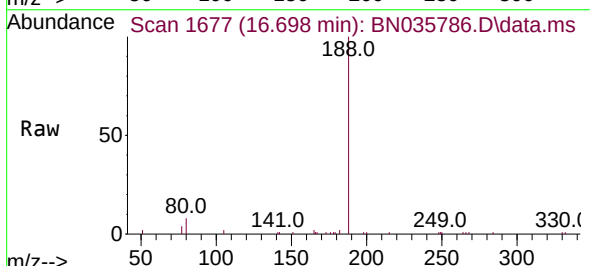
Tgt Ion:188 Resp: 11585

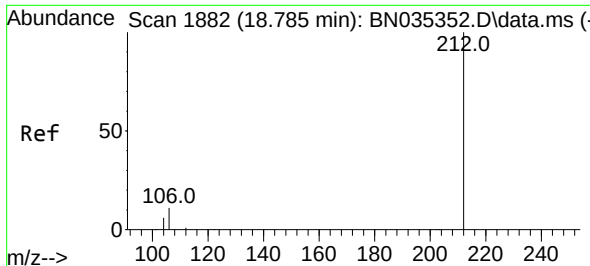
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.1 4.6 6.8#





#27

Fluoranthene-d10

Concen: 0.171 ng

RT: 18.752 min Scan# 11

Delta R.T. -0.009 min

Lab File: BN035786.D

Acq: 23 Dec 2024 16:17

Instrument :

BNA_N

ClientSampleId :

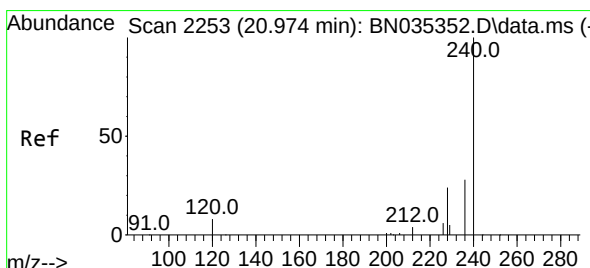
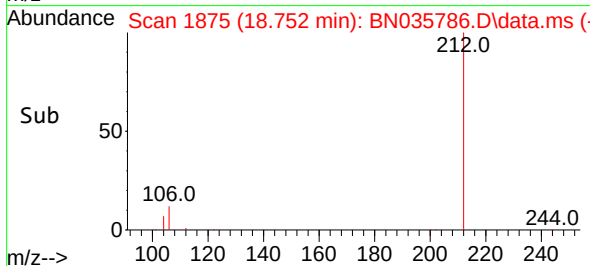
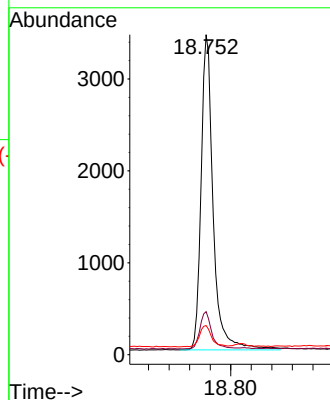
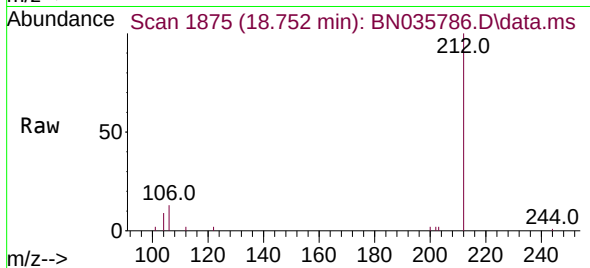
VPB190A-HYD-20241217

Tgt Ion:	212	Resp:	560
Ion Ratio	Lower	Upper	
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#29

Chrysene-d12

Concen: 0.400 ng

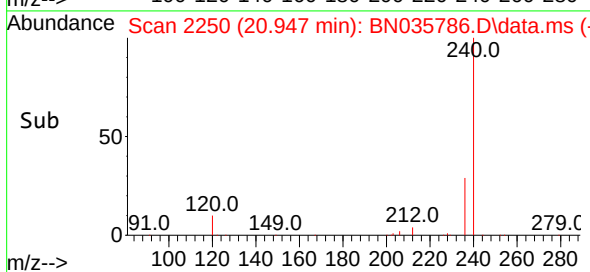
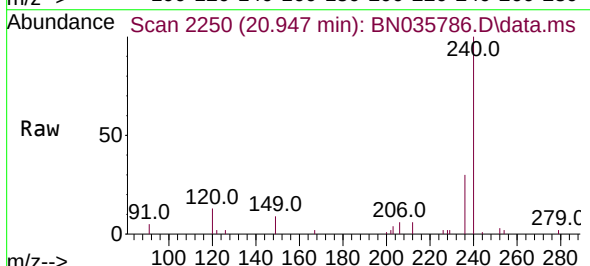
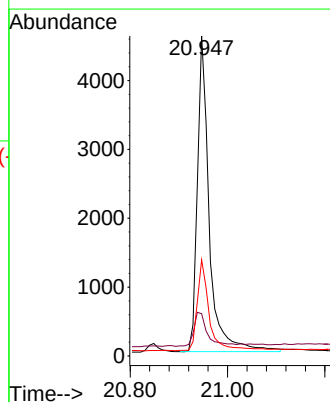
RT: 20.947 min Scan# 2250

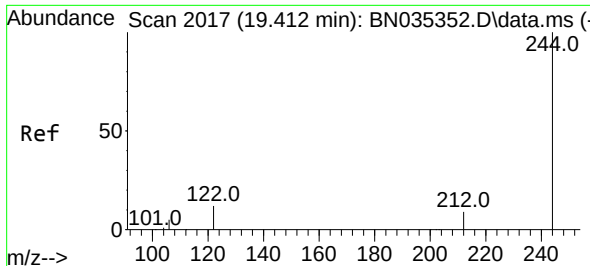
Delta R.T. -0.009 min

Lab File: BN035786.D

Acq: 23 Dec 2024 16:17

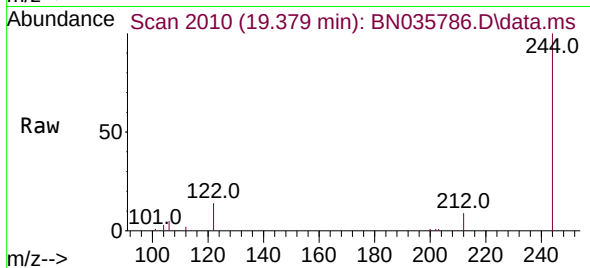
Tgt Ion:	240	Resp:	7747
Ion Ratio	Lower	Upper	
240	100		
120	13.2	7.9	11.9#
236	30.0	22.9	34.3





#31
Terphenyl-d14
Concen: 0.680 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

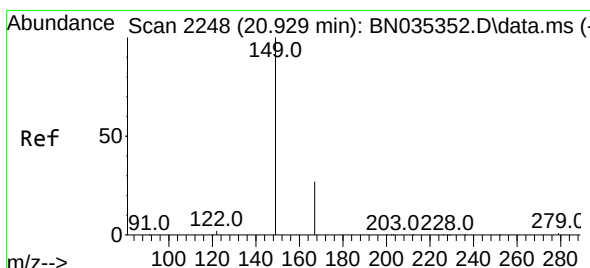
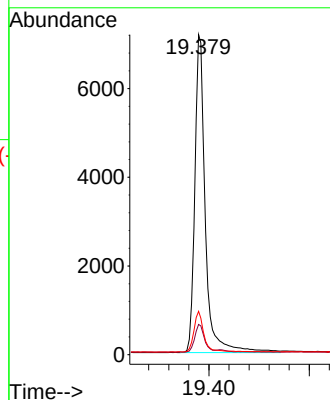
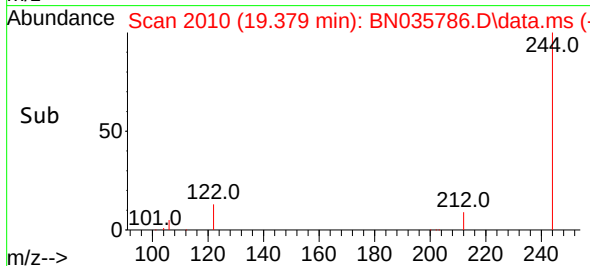
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217



Tgt Ion:244 Resp: 1039
Ion Ratio Lower Upper
244 100
212 9.5 8.1 12.1
122 13.6 10.3 15.5

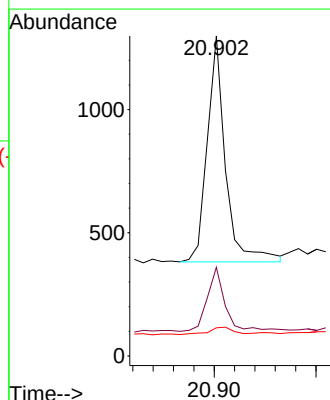
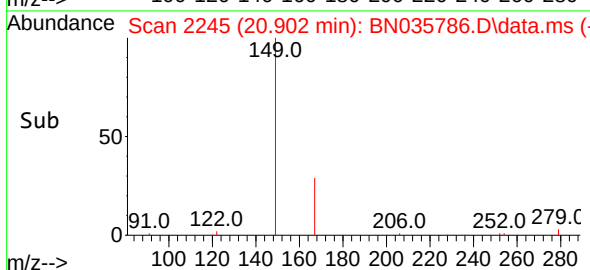
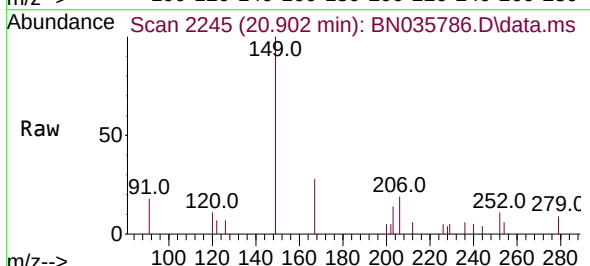
Manual Integrations
APPROVED

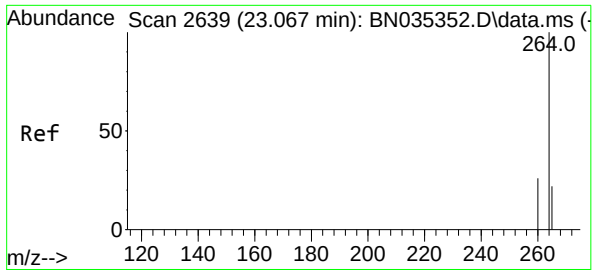
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.106 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:149 Resp: 1139
Ion Ratio Lower Upper
149 100
167 28.1 22.2 33.4
279 3.6 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: BN035786.D

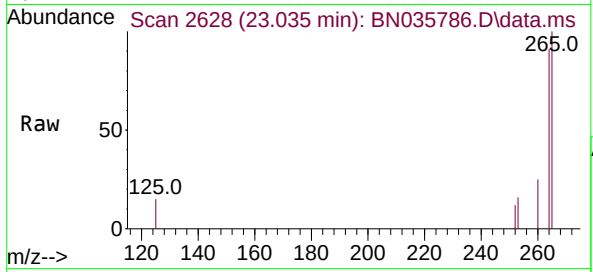
Acq: 23 Dec 2024 16:17

Instrument :

BNA_N

ClientSampleId :

VPB190A-HYD-20241217



Tgt Ion:264 Resp: 5708

Ion Ratio Lower Upper

264 100

260 27.3 21.4 32.2

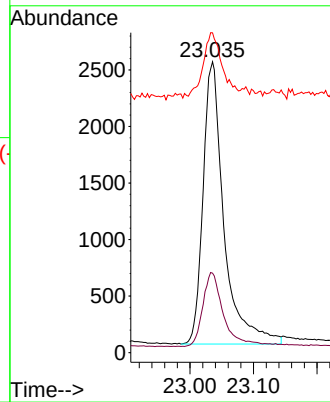
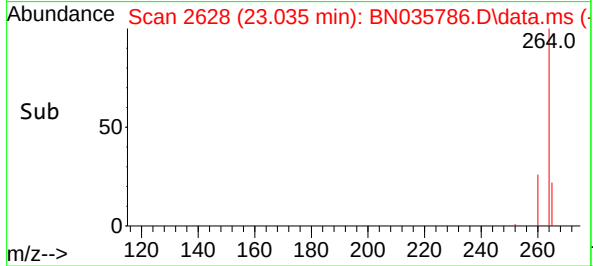
265 110.0 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024





CALIBRATION SUMMARY

- 1
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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN112724.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Nov 27 23:03:24 2024
 Response Via : Initial Calibration

Calibration Files

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

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)	n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4) S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5) S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)	bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)	Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)	Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11) SURR2	Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)	2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15) S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)	Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)	Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)	Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)	4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)	Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)	Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)	Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)	Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)	Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27) SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)	Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31) S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)	Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)	Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)	Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN112724.M

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

(#) = Out of Range

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

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:09 2024

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 22:48:24 2024

Response via : Initial Calibration

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

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

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

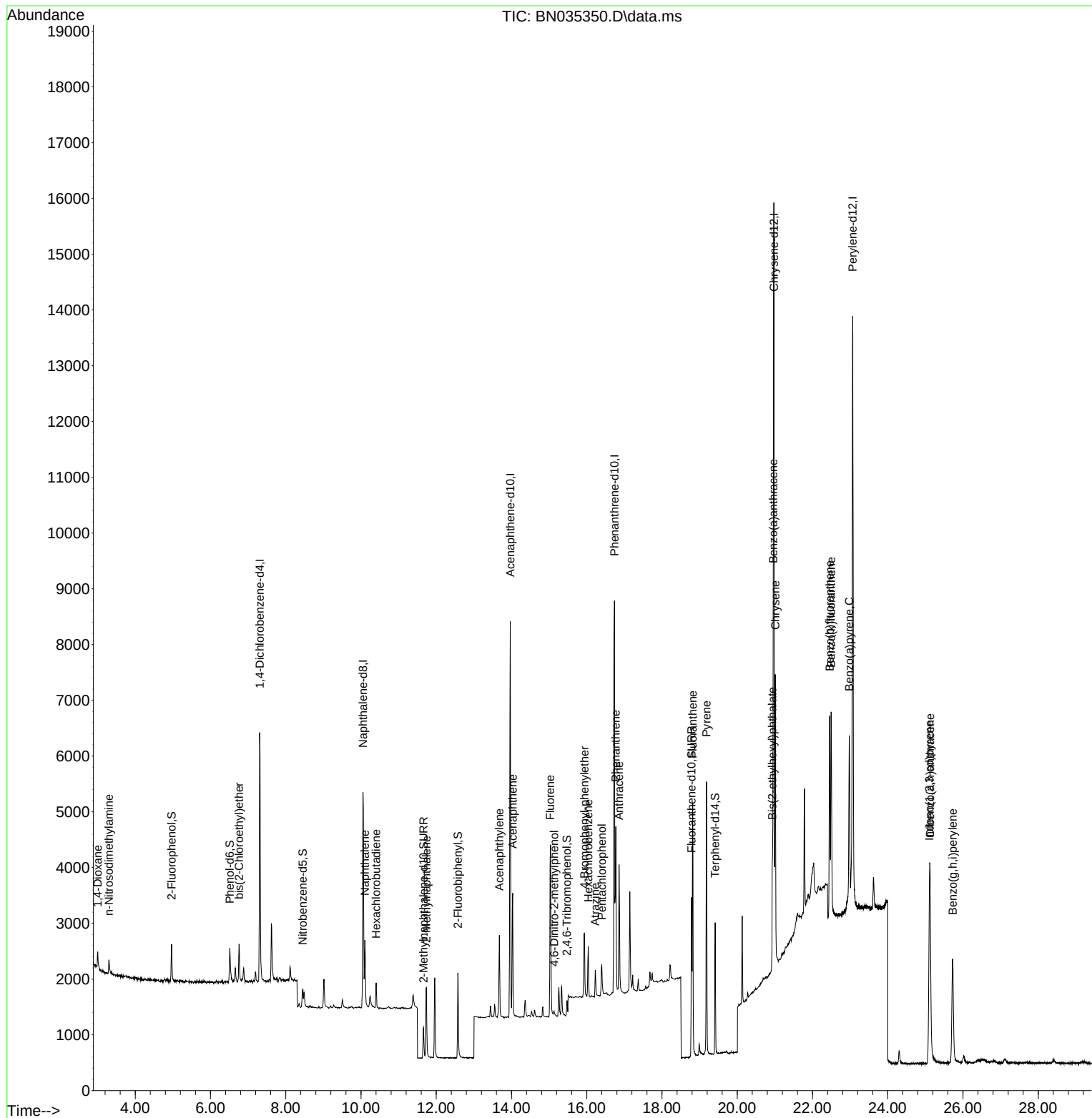
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Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

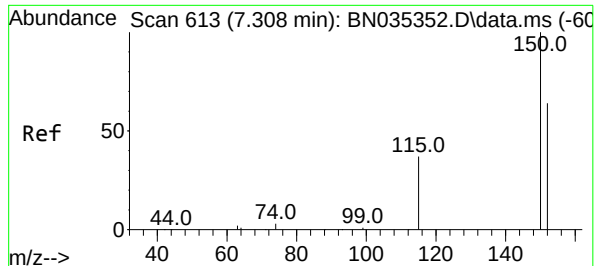
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ClientSampleId :
SSTDICC0.1

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

Manual Integrations
APPROVED

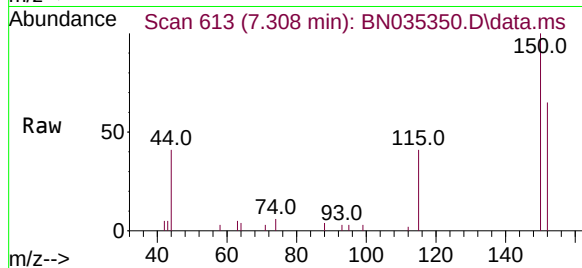
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024





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

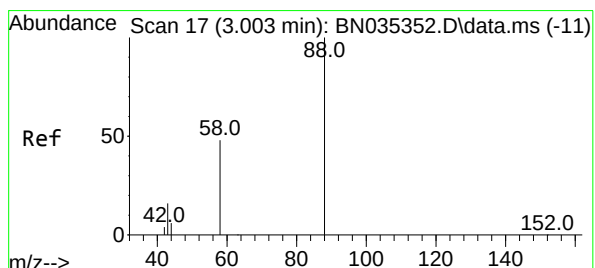
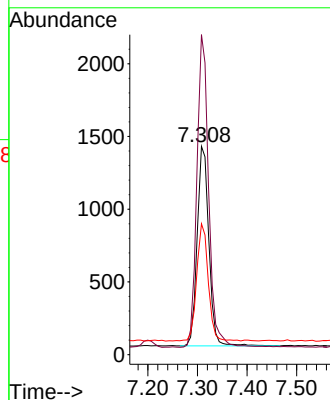
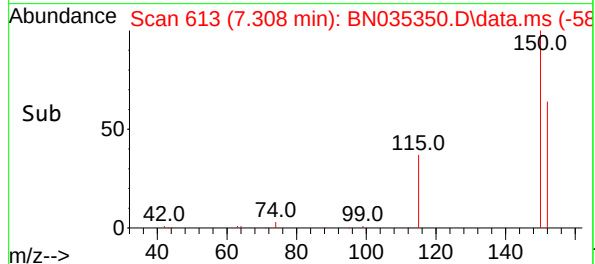
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

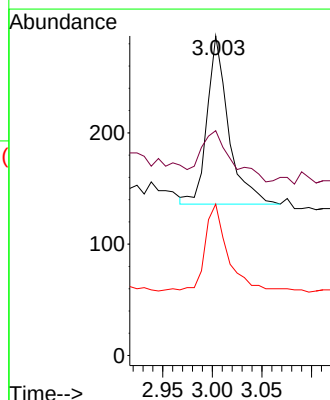
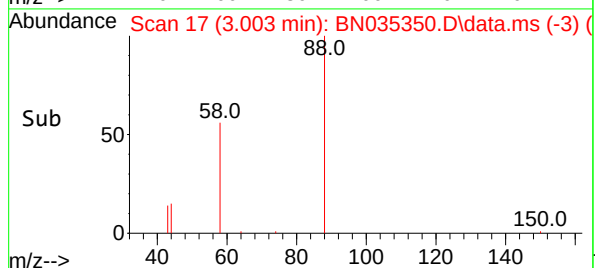
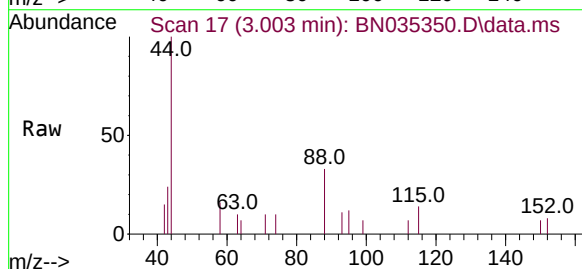
Manual Integrations
APPROVED

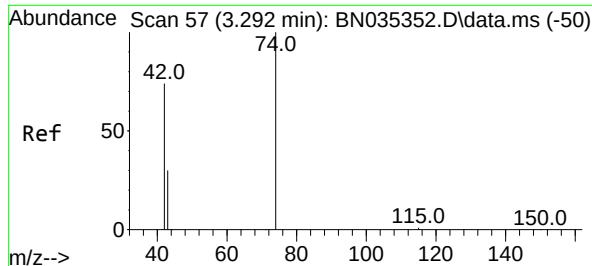
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





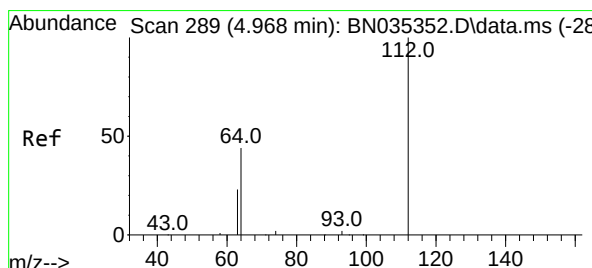
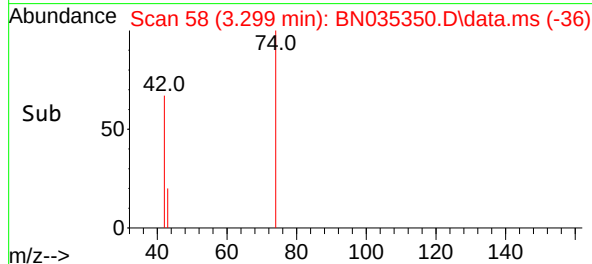
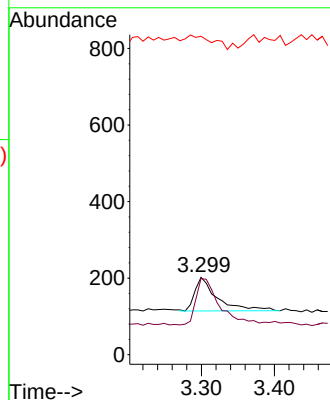
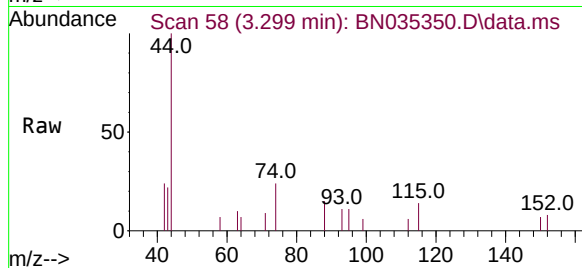
#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 50
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 187
Ion Ratio Lower Upper
42 100
74 146.5 124.9 187.3
44 51.9 2.2 3.4

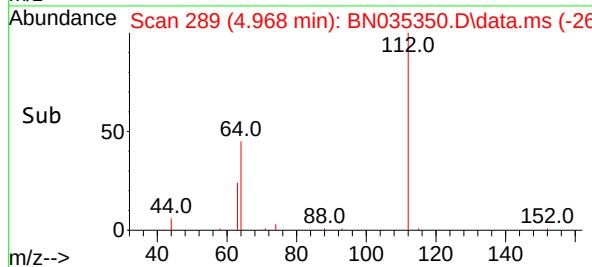
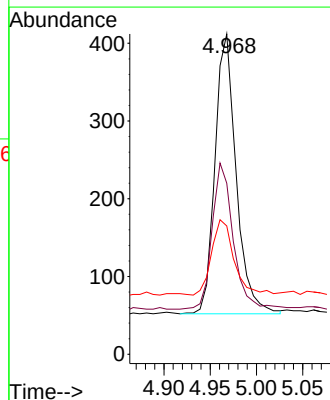
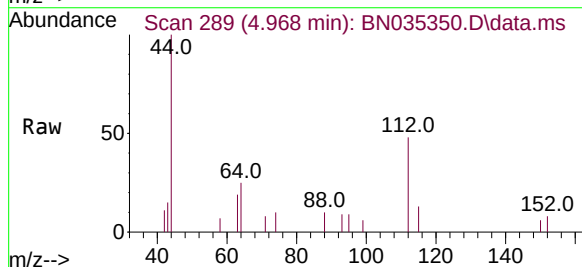
Manual Integrations
APPROVED

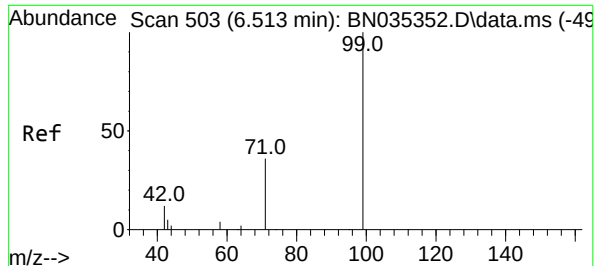
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

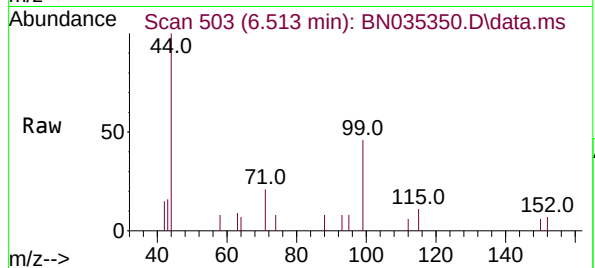
Tgt Ion:112 Resp: 573
Ion Ratio Lower Upper
112 100
64 52.0 39.8 59.8
63 28.8 21.0 31.6





#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

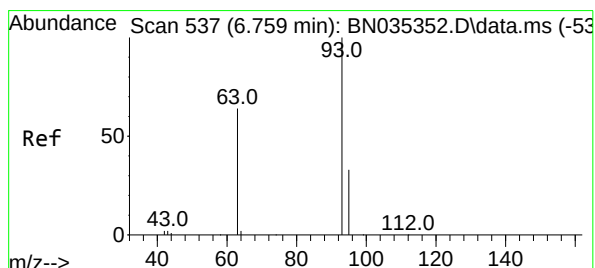
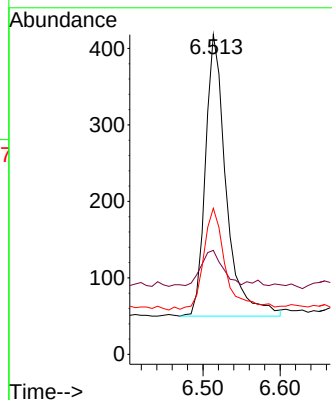
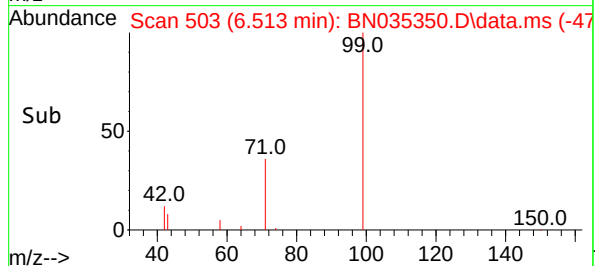
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 99 Resp: 680
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.9 29.3 43.9

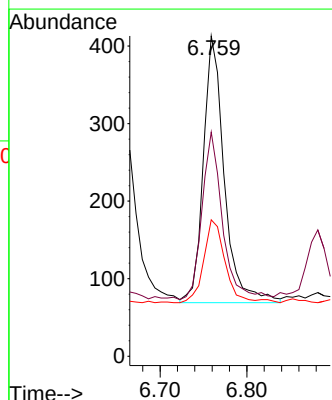
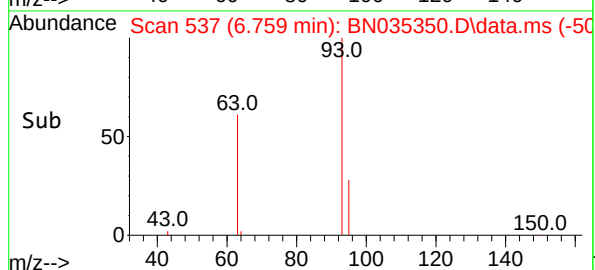
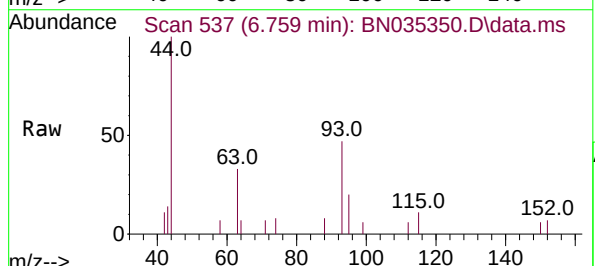
Manual Integrations
APPROVED

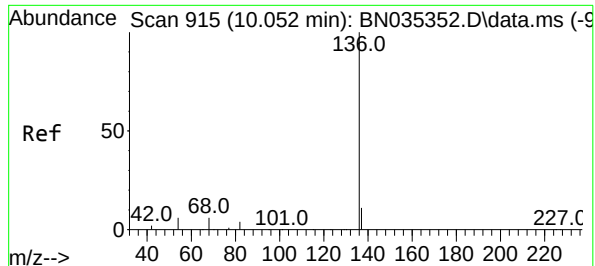
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





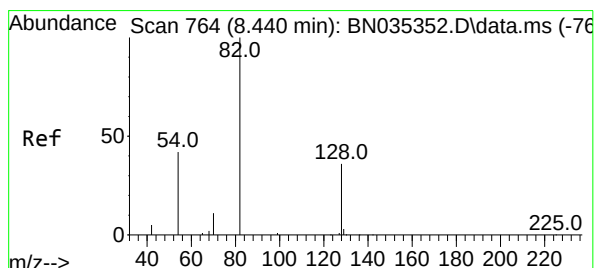
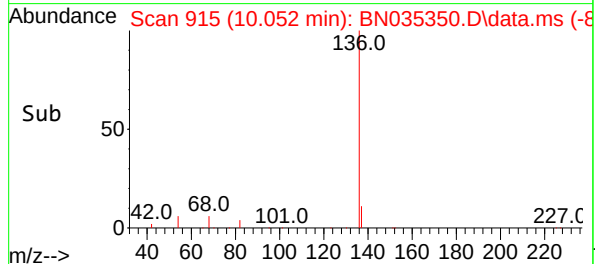
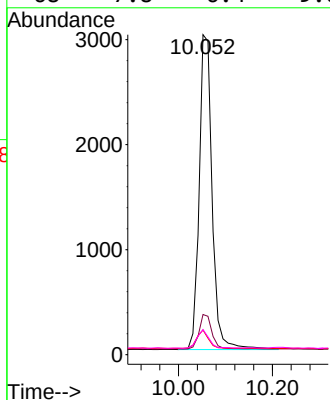
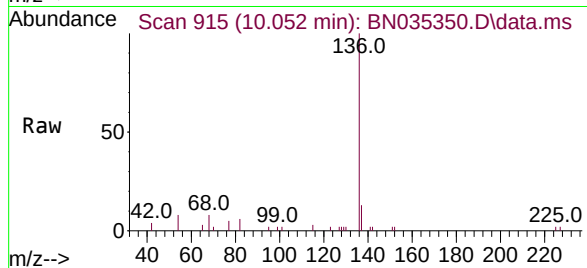
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

Tgt Ion:136 Resp: 575
Ion Ratio Lower Upper
136 100
137 12.6 10.2 15.2
54 7.7 6.1 9.1
68 7.8 6.4 9.6

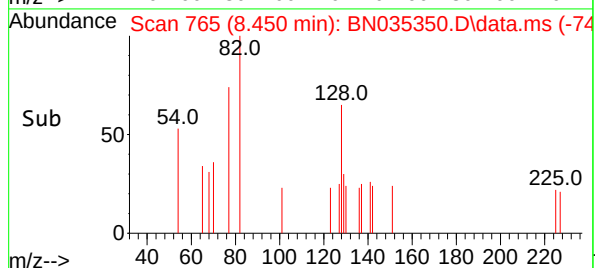
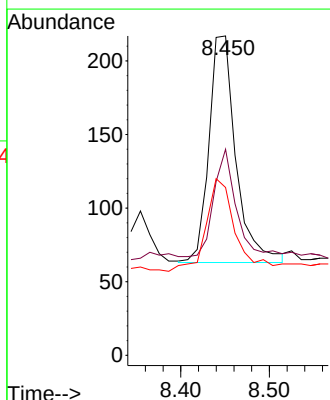
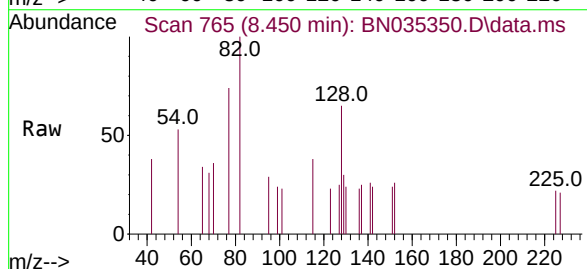
Manual Integrations
APPROVED

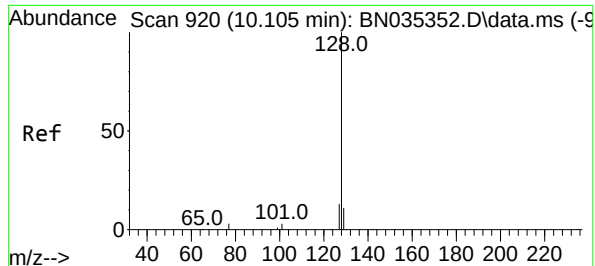
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion: 82 Resp: 327
Ion Ratio Lower Upper
82 100
128 64.5 33.4 50.0#
54 52.5 36.7 55.1





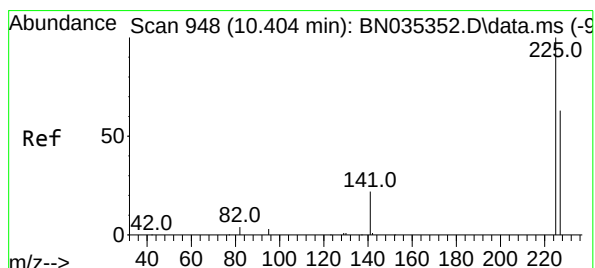
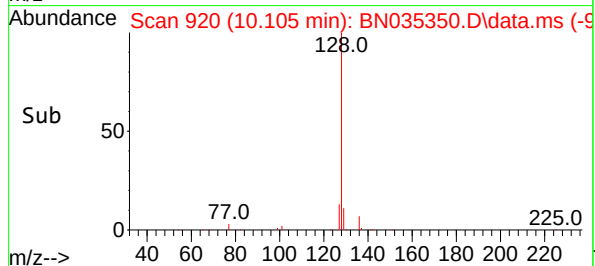
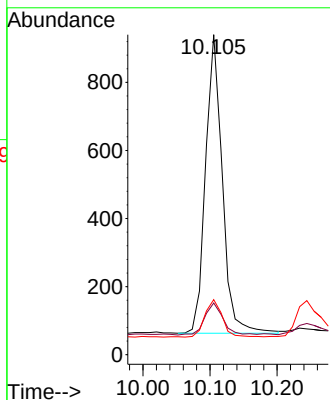
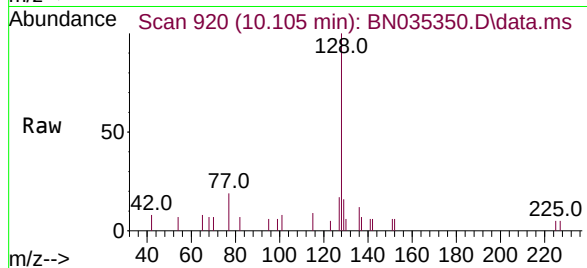
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 152
Ion Ratio Lower Upper
128 100
129 16.2 9.8 14.6
127 17.2 11.4 17.2

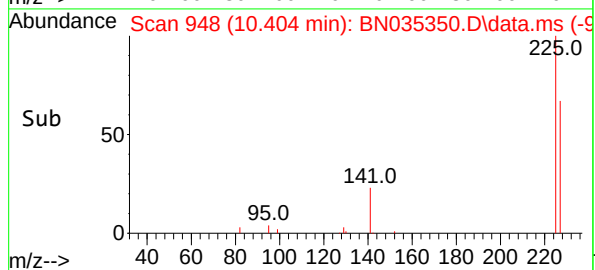
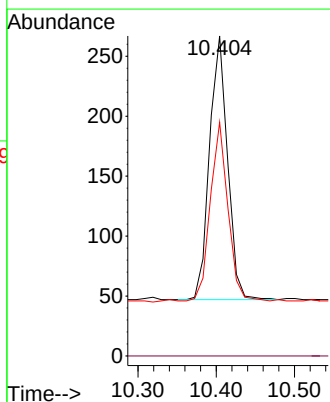
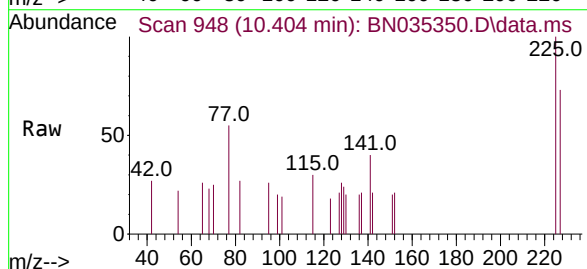
Manual Integrations
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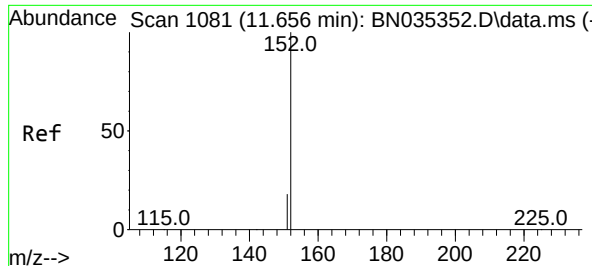
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

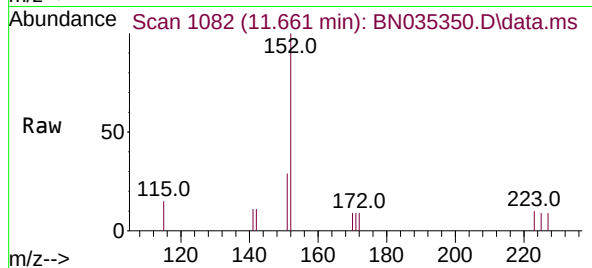
Tgt Ion:225 Resp: 352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.2 51.3 76.9





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

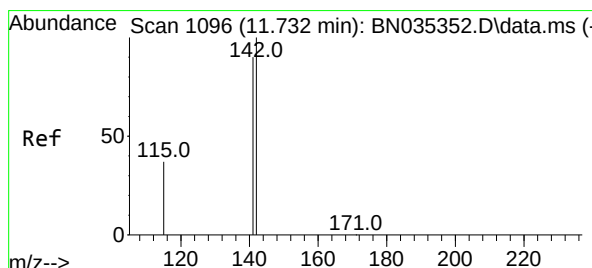
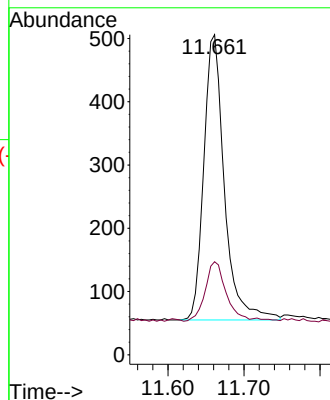
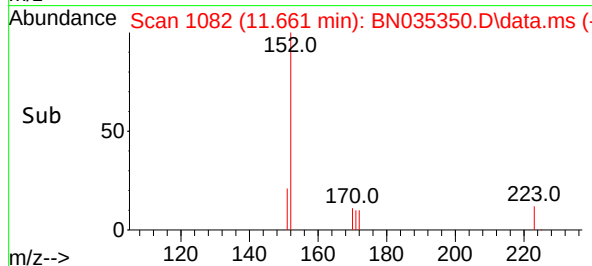
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ClientSampleId :
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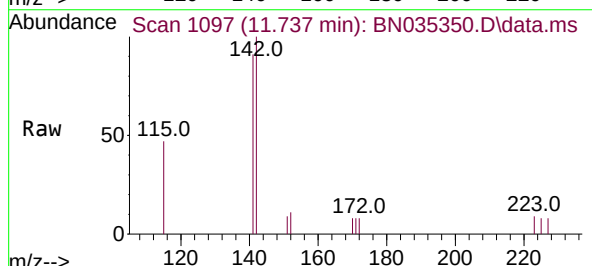
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

Manual Integrations
APPROVED

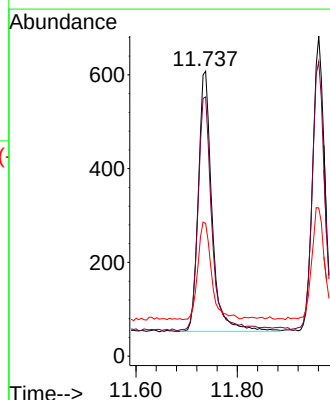
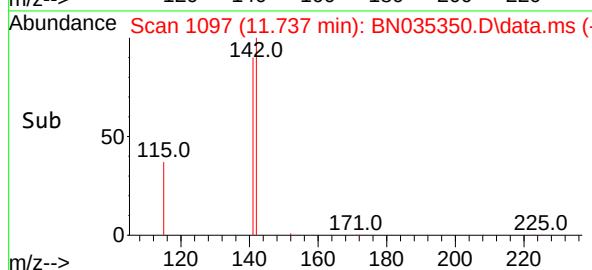
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

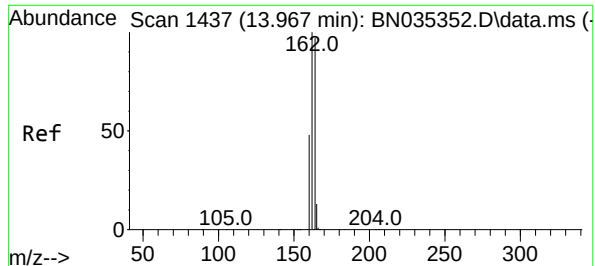


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



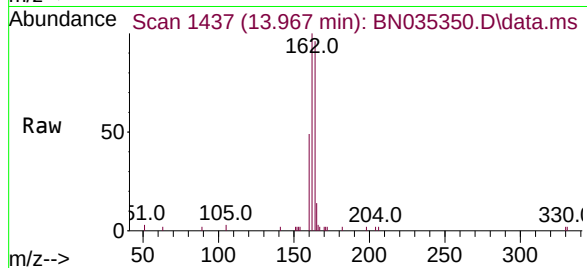
Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0





#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

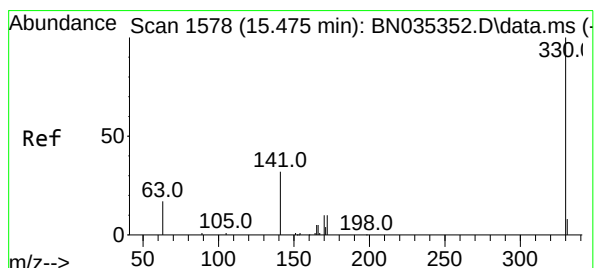
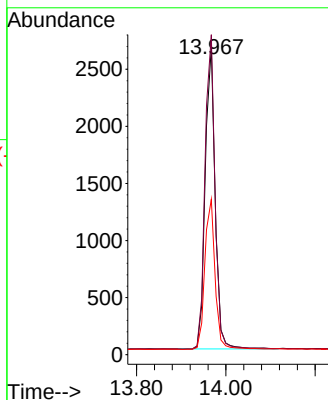
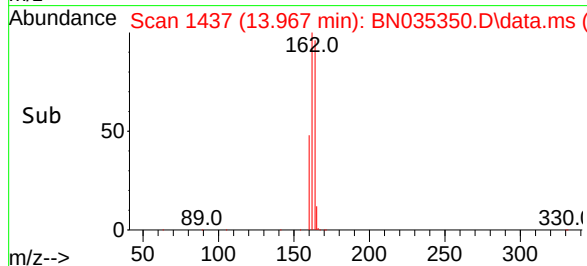
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ClientSampleId :
SSTDICC0.1



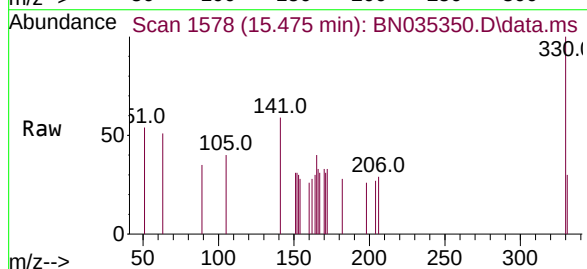
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Ion Ratio Lower Upper
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162 103.9 82.2 123.2
160 50.4 40.1 60.1

Manual Integrations
APPROVED

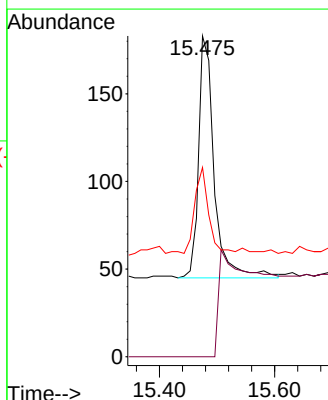
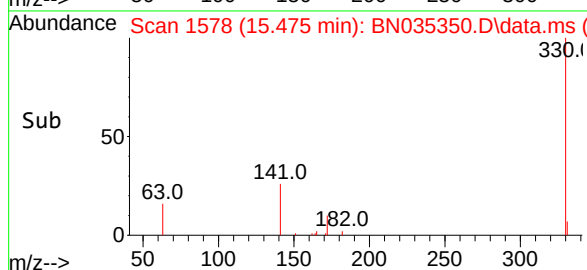
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

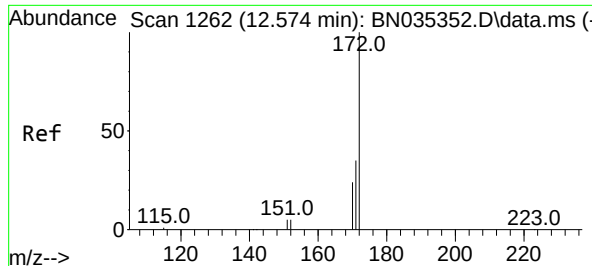


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



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# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

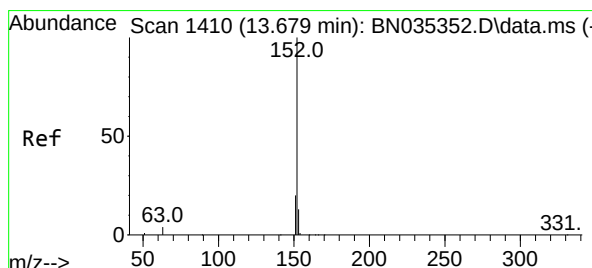
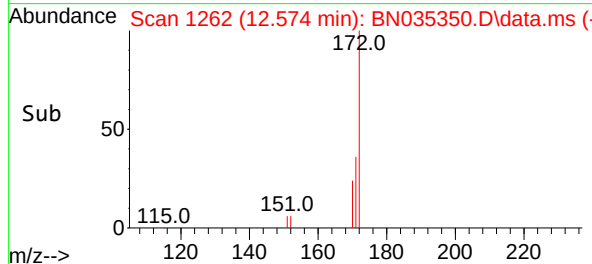
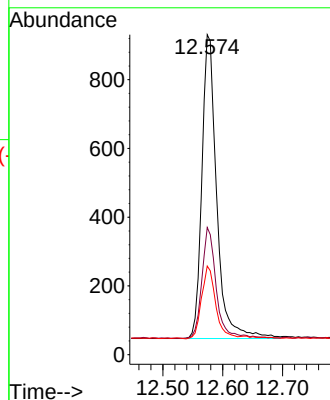
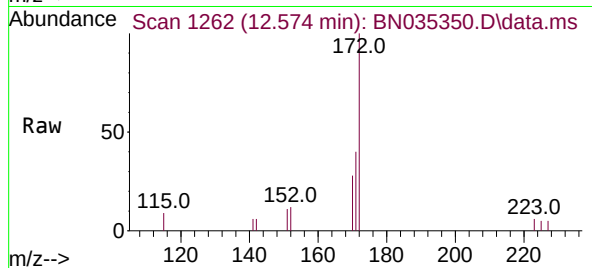
Tgt Ion:	172	Resp:	1518
Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.096 ng

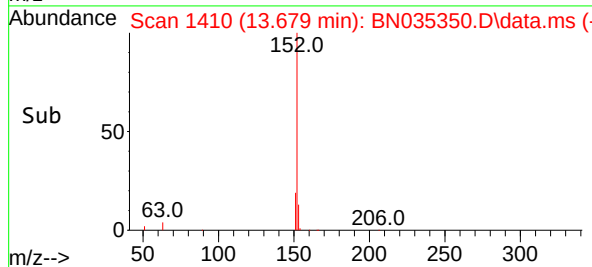
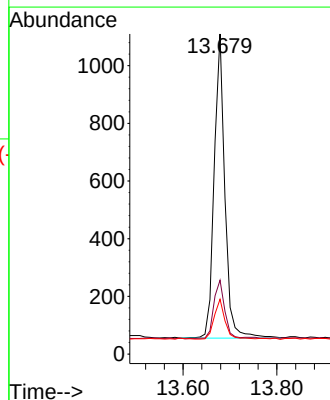
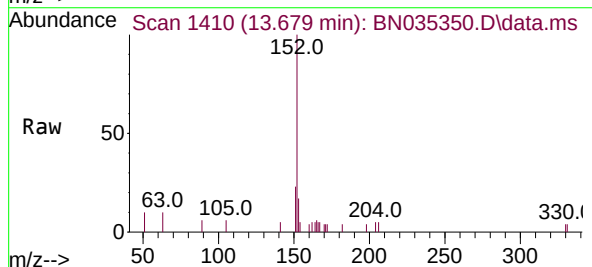
RT: 13.679 min Scan# 1410

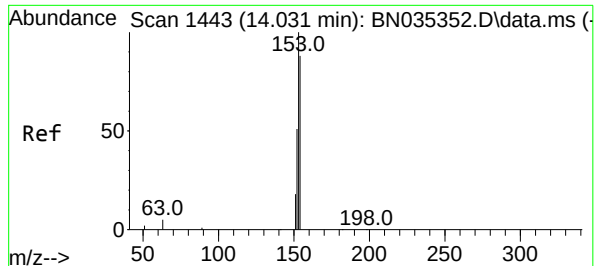
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

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





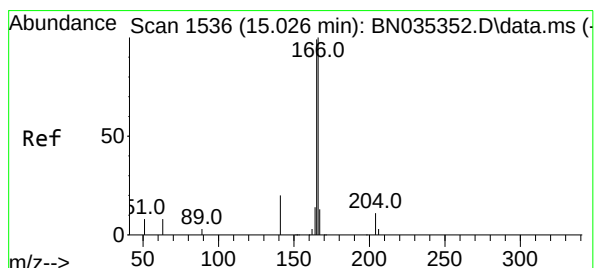
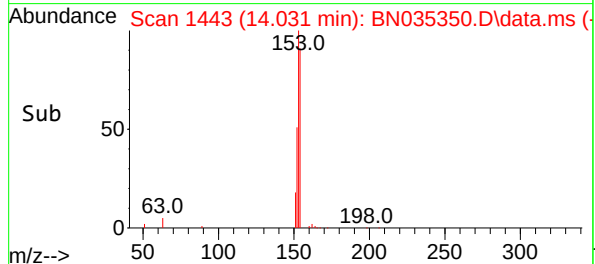
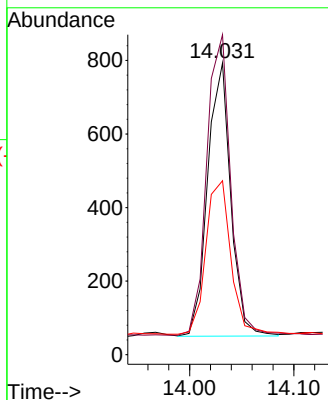
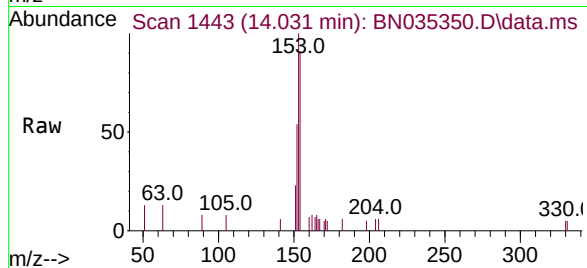
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 114.0
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6

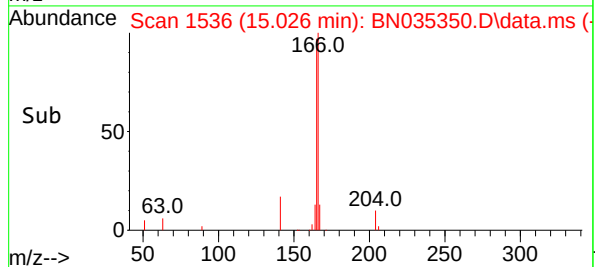
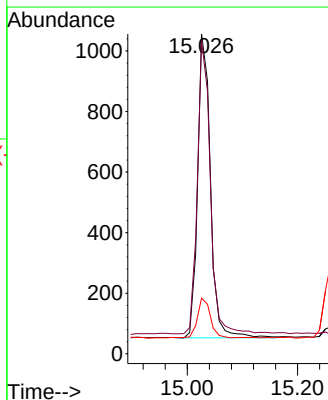
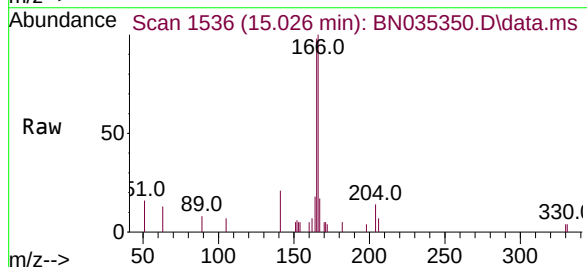
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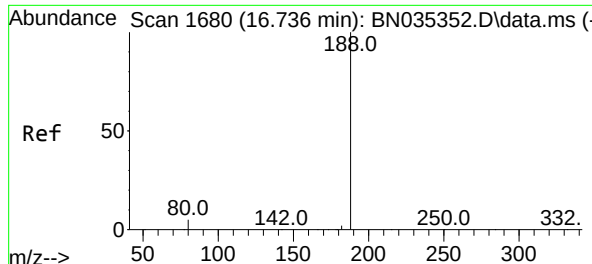
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

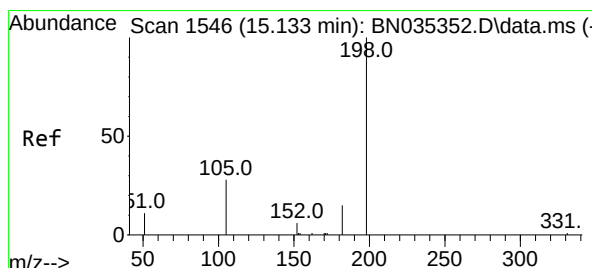
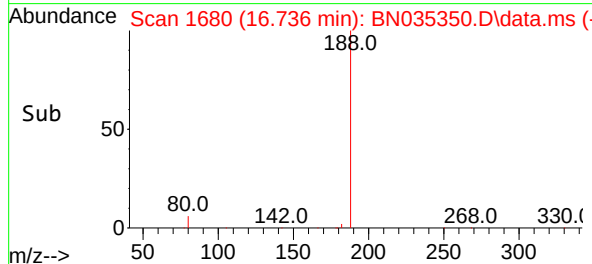
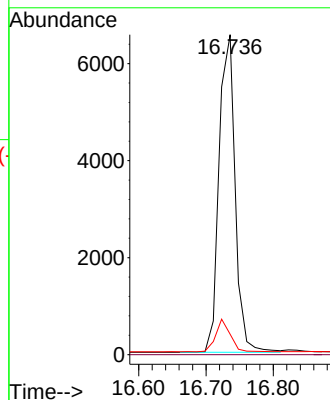
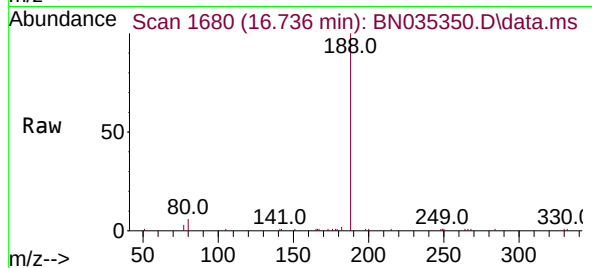
SSTDIC0.1

Tgt Ion:188	Resp:	1085
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	6.4	6.8

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.046 ng

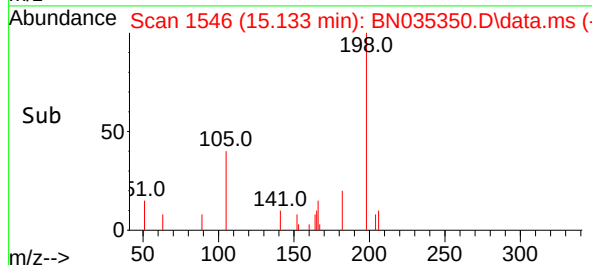
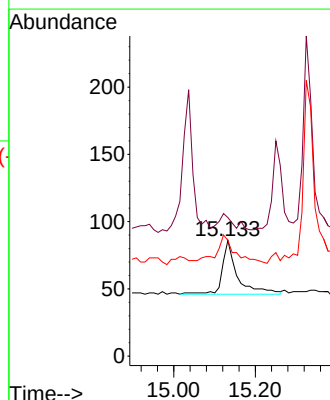
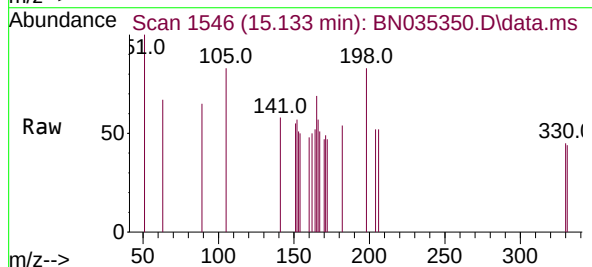
RT: 15.133 min Scan# 1546

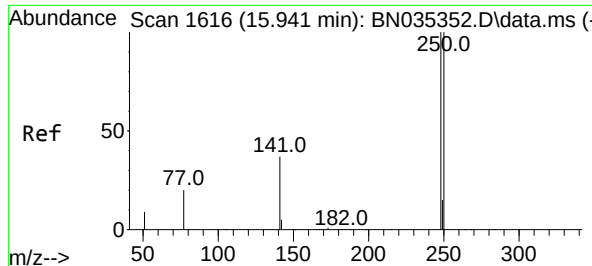
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Tgt Ion:198	Resp:	103
Ion Ratio	Lower	Upper
198	100	
51	119.8	46.5
105	100.0	45.3





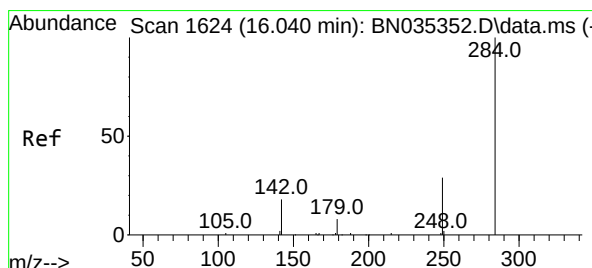
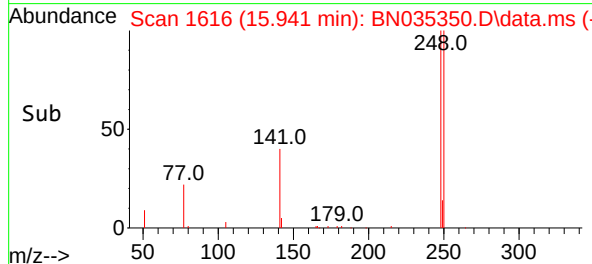
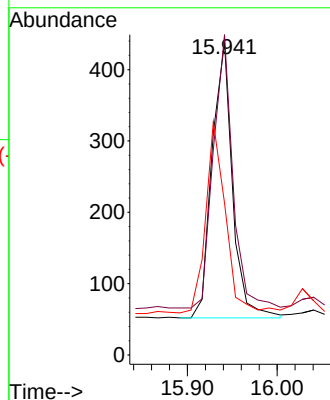
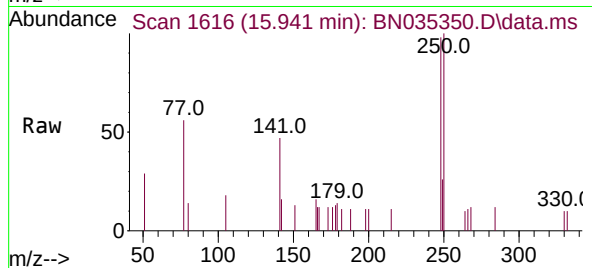
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 612
Ion Ratio Lower Upper
248 100
250 102.5 80.6 120.8
141 48.6 31.5 47.3

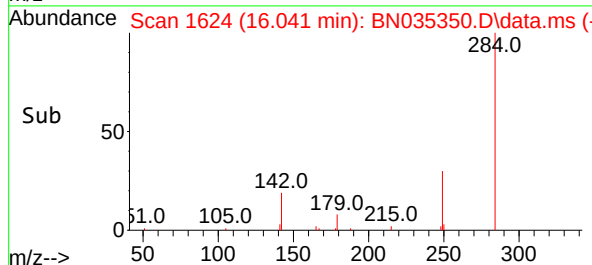
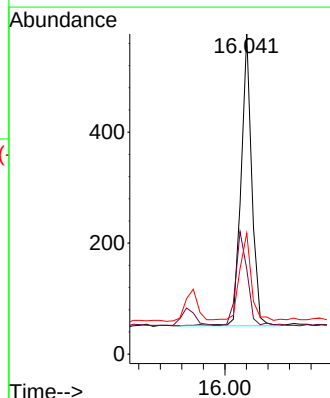
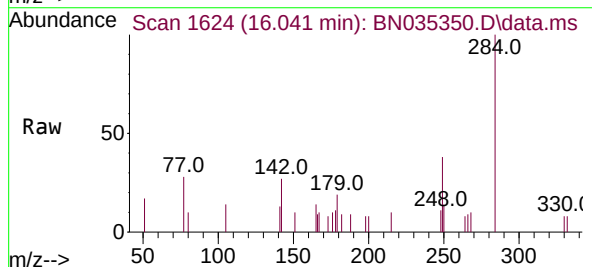
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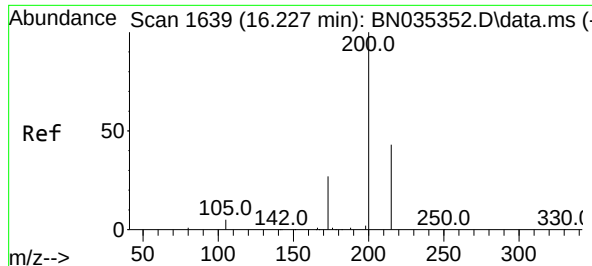
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

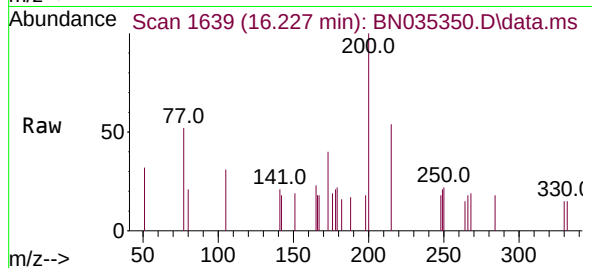
Tgt Ion:284 Resp: 720
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 32.2 24.6 36.8





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

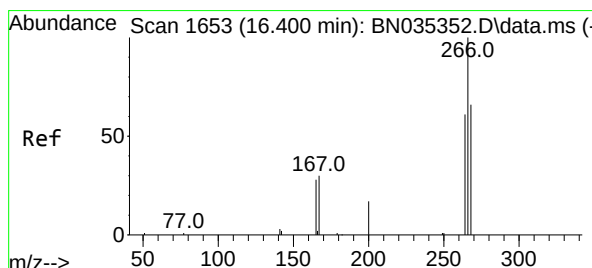
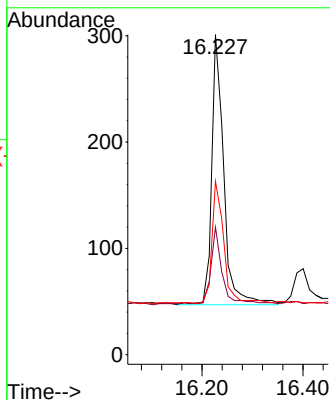
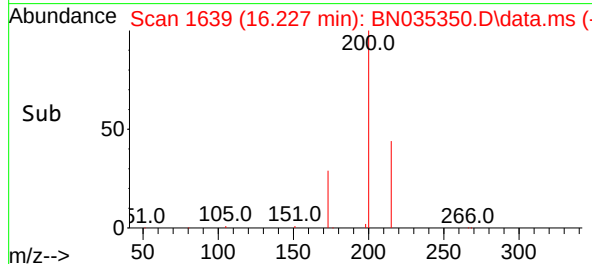
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:200 Resp: 42.1
Ion Ratio Lower Upper
200 100
173 39.9 24.1 36.1
215 54.2 36.9 55.3

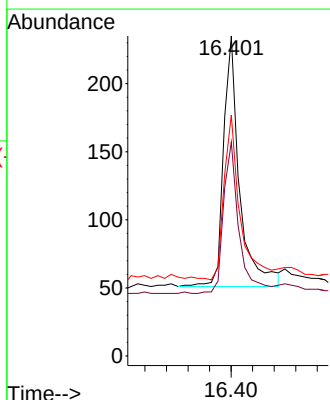
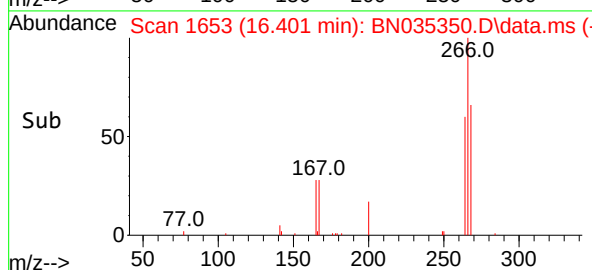
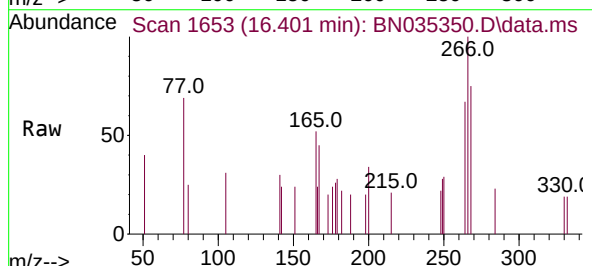
Manual Integrations
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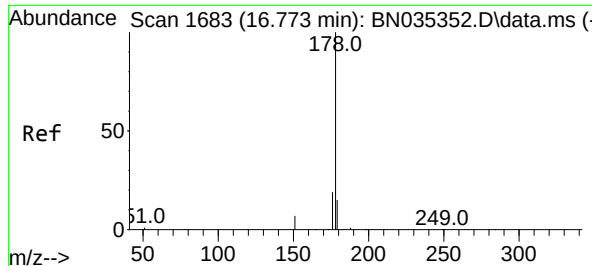
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





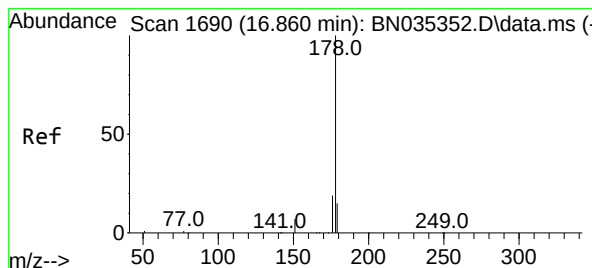
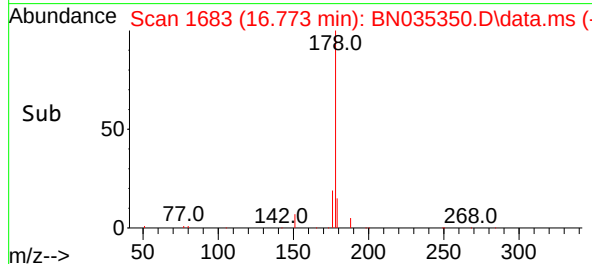
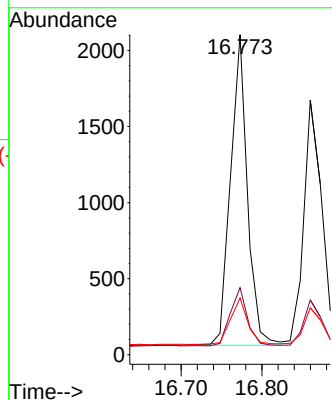
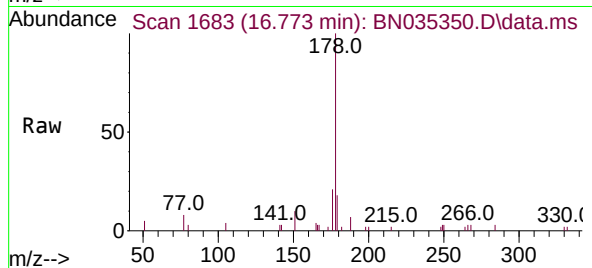
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 296
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.6 12.3 18.5

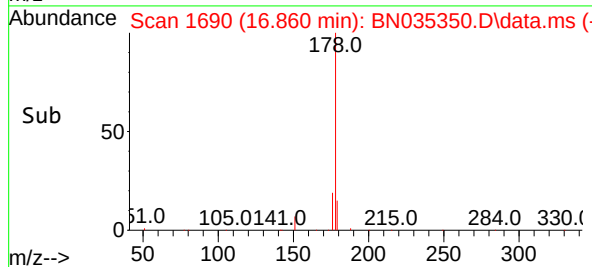
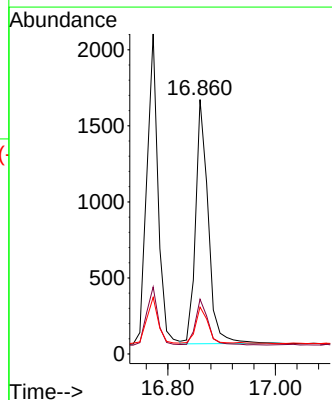
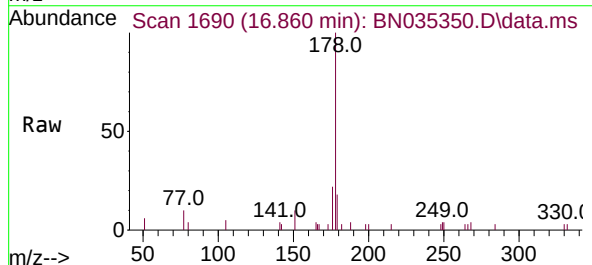
Manual Integrations
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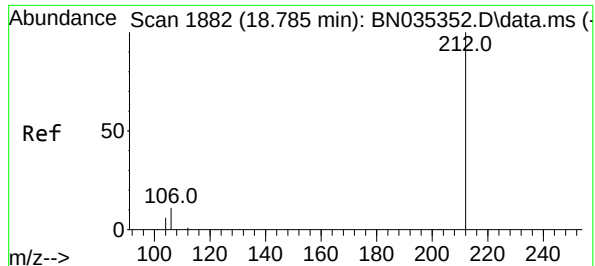
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 14.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.098 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

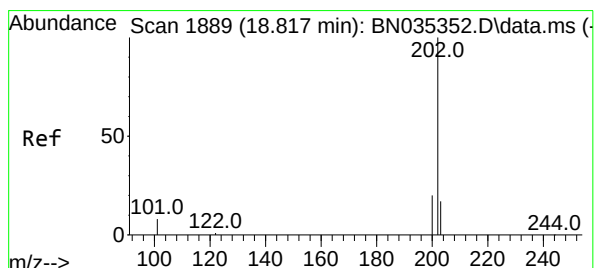
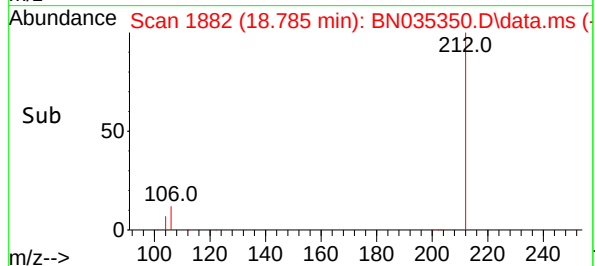
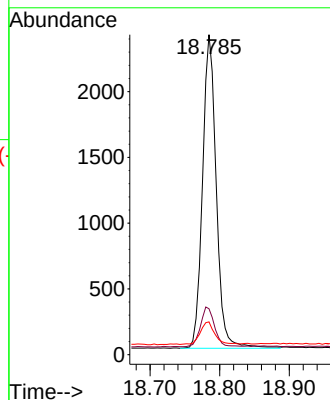
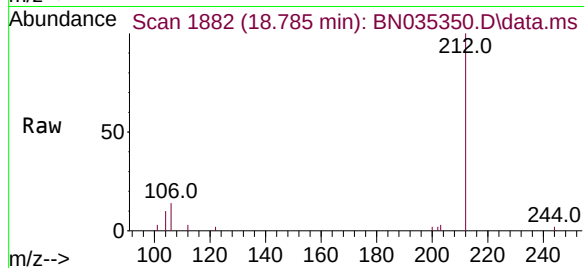
ClientSampleId :

SSTDICC0.1

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

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



#28

Fluoranthene

Concen: 0.106 ng

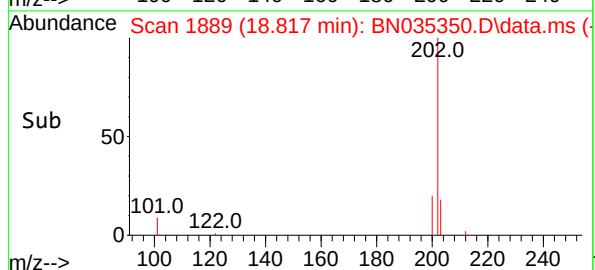
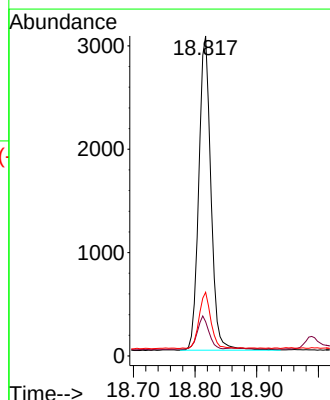
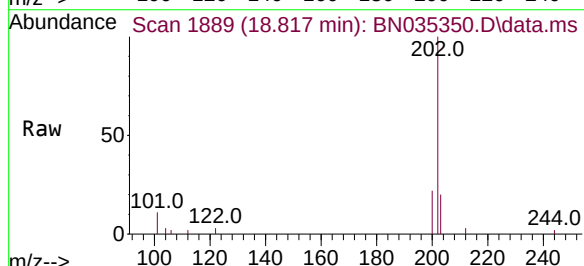
RT: 18.817 min Scan# 1889

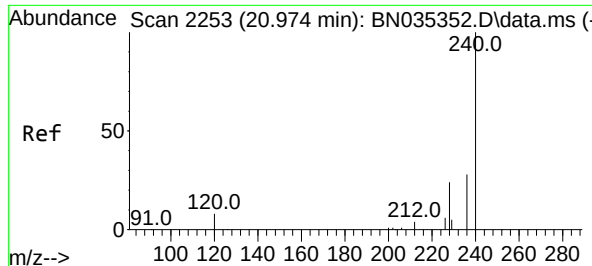
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

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





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

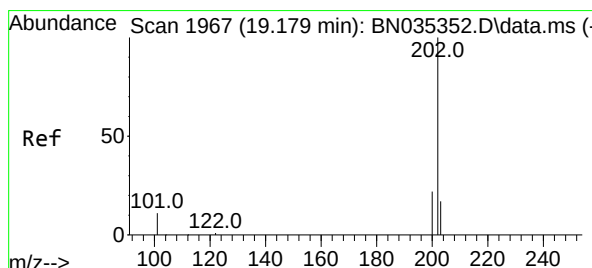
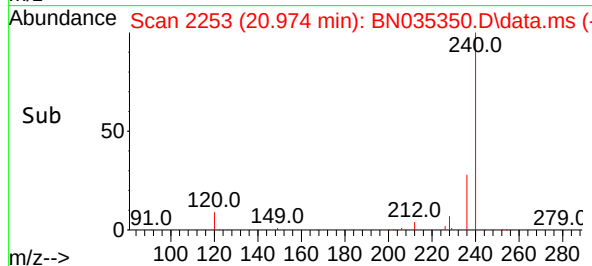
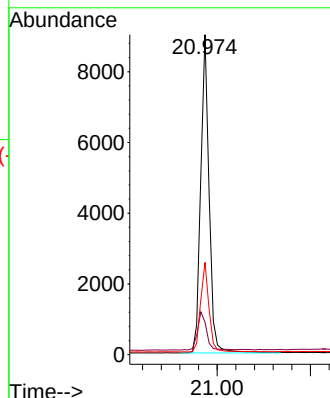
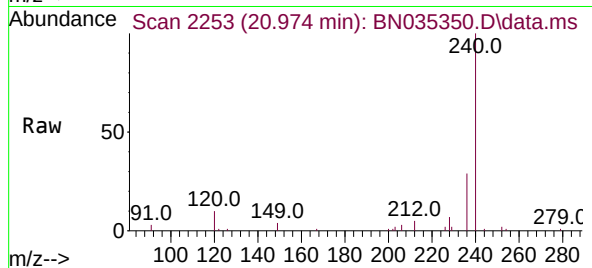
ClientSampleId :

SSTDICC0.1

Tgt Ion:	240	Resp:	11269
Ion Ratio	Lower	Upper	
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3

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



#30

Pyrene

Concen: 0.119 ng

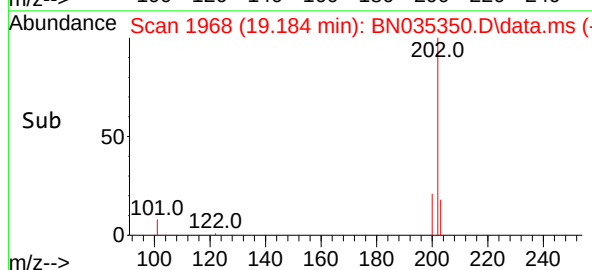
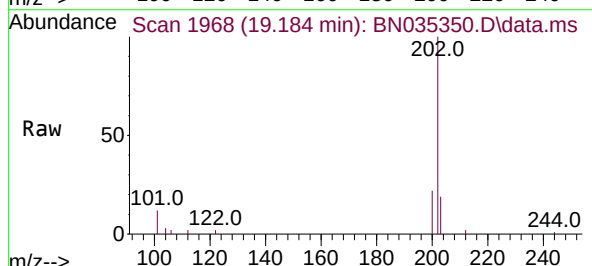
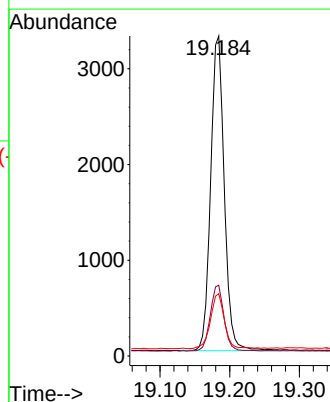
RT: 19.184 min Scan# 1968

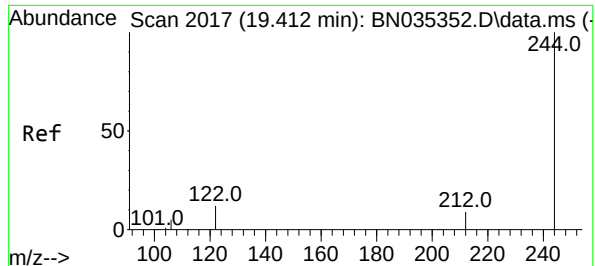
Delta R.T. 0.005 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

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





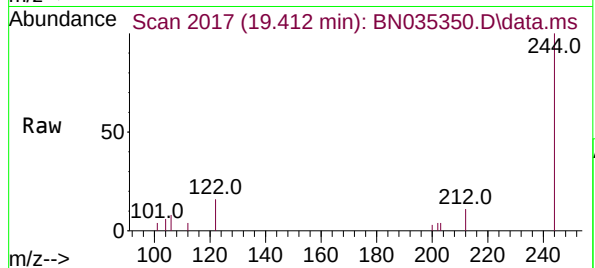
#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

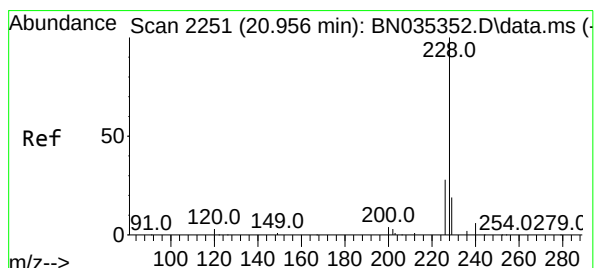
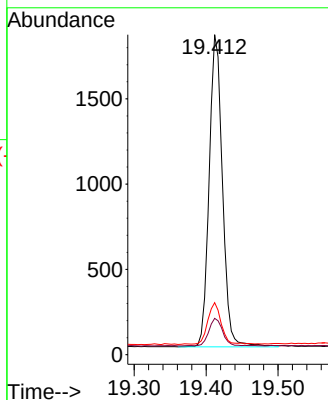
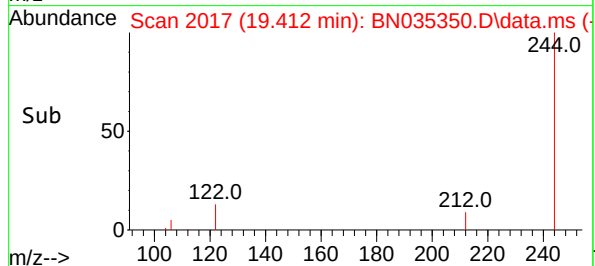
SSTDICC0.1



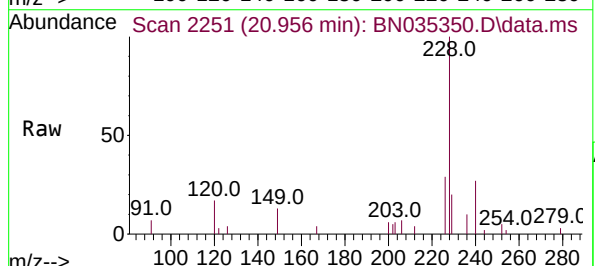
Tgt Ion:244 Resp: 2344
Ion Ratio Lower Upper
244 100
212 11.4 8.1 12.1
122 16.3 10.3 15.5

Manual Integrations
APPROVED

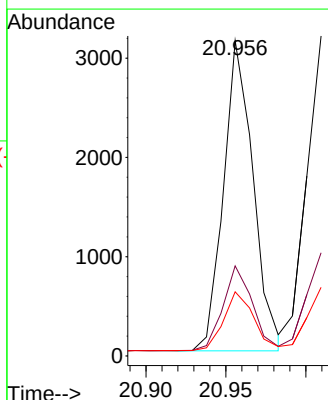
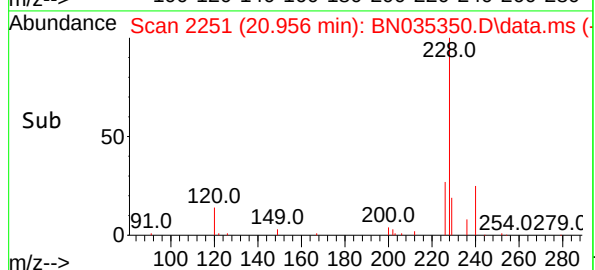
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

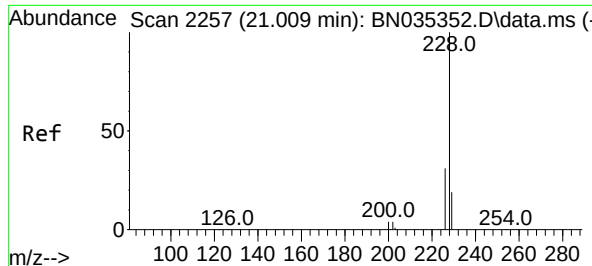


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



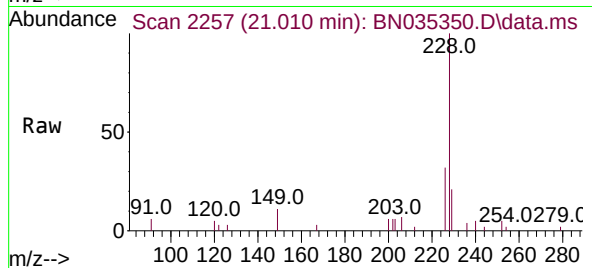
Tgt Ion:228 Resp: 4031
Ion Ratio Lower Upper
228 100
226 28.5 22.5 33.7
229 20.4 15.8 23.8





#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 210
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

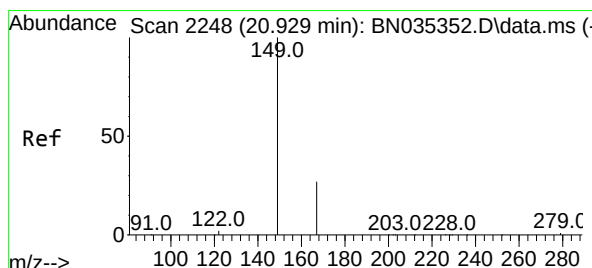
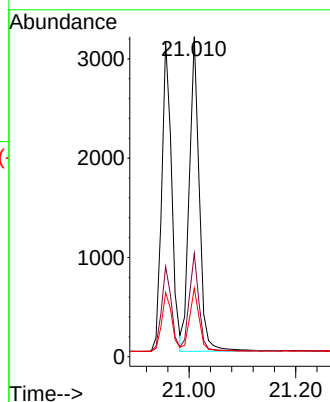
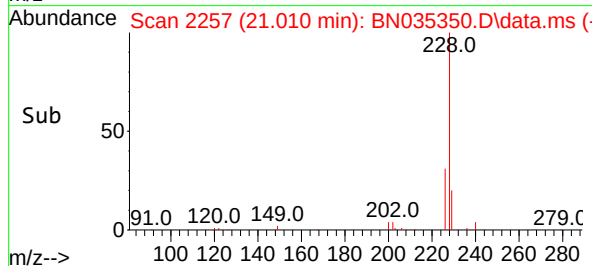
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

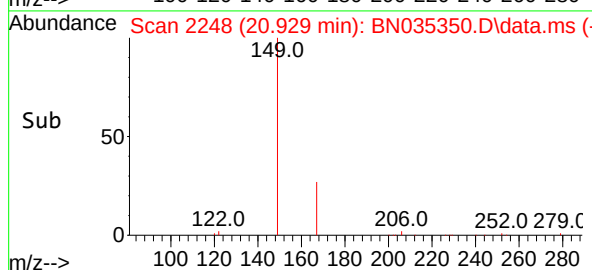
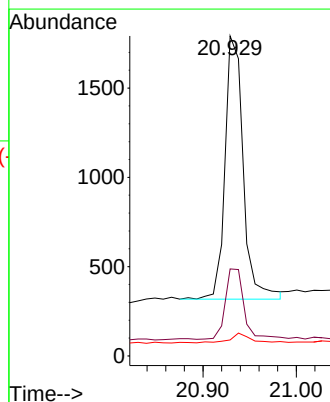
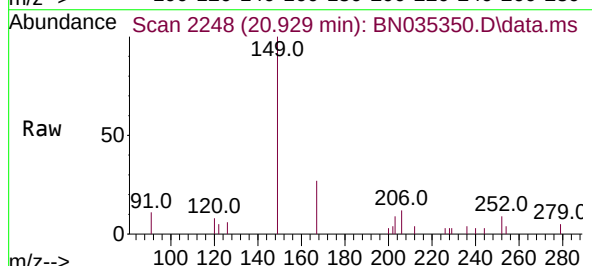
Manual Integrations
APPROVED

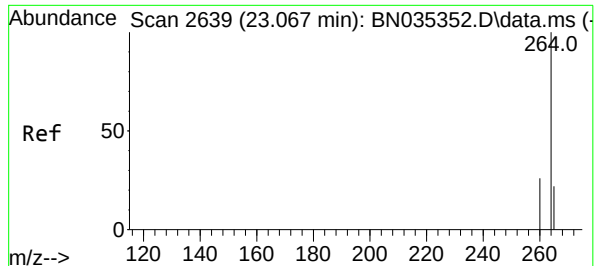
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 2

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

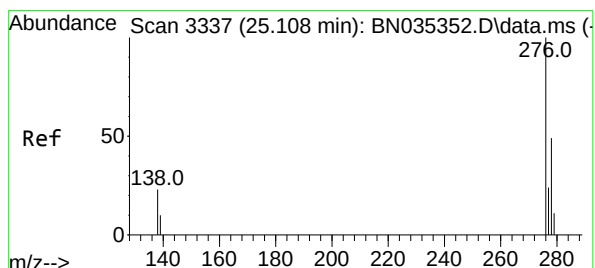
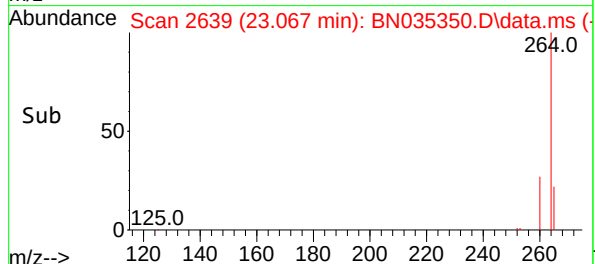
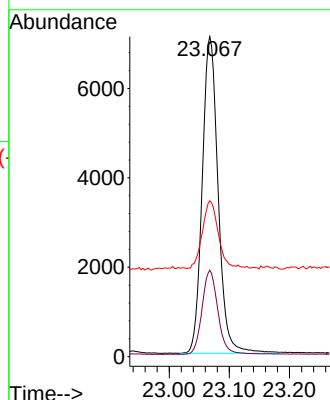
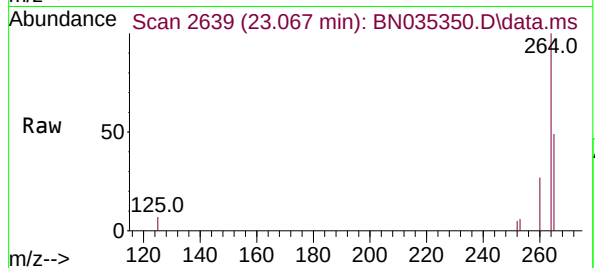
SSTDIC0.1

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

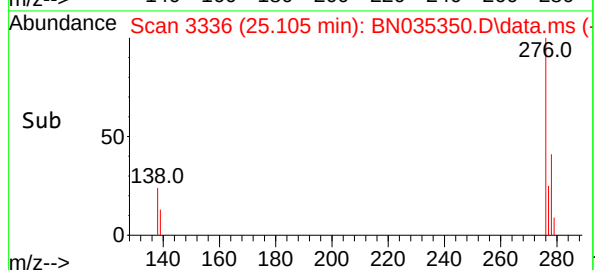
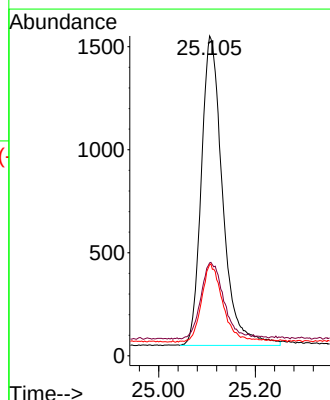
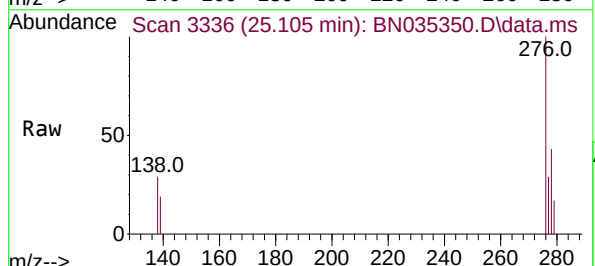
RT: 25.105 min Scan# 3336

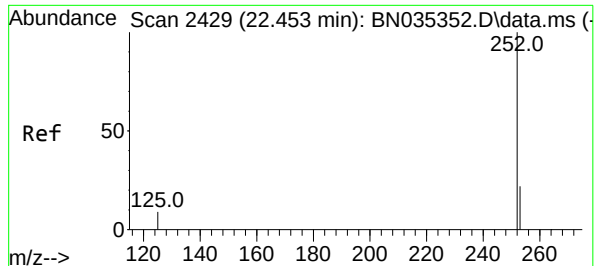
Delta R.T. -0.003 min

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

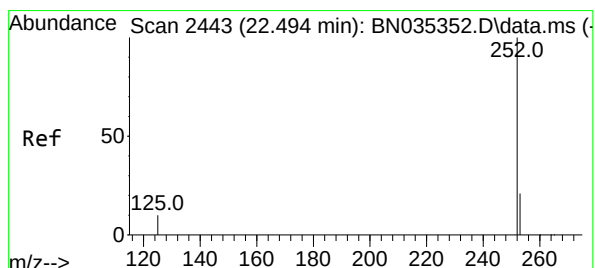
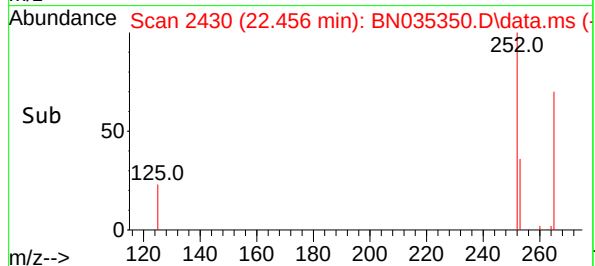
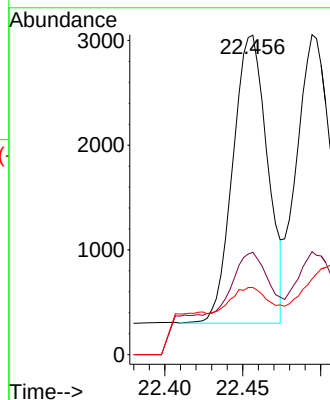
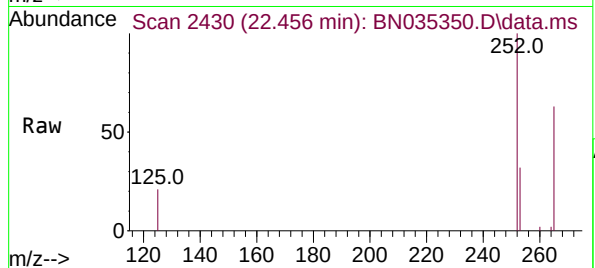
Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4
125	21.0	9.6	14.4

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

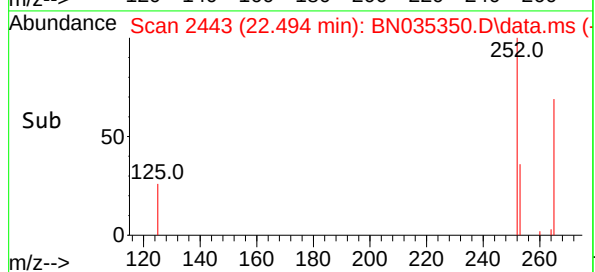
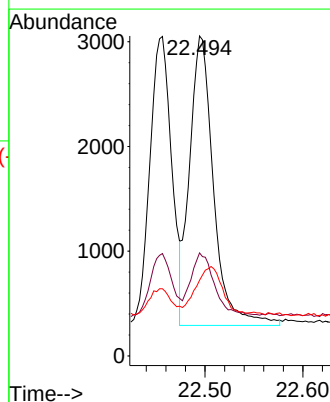
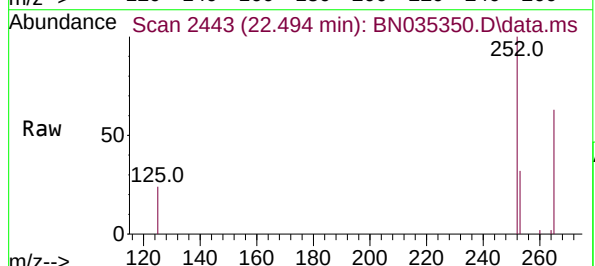
RT: 22.494 min Scan# 2443

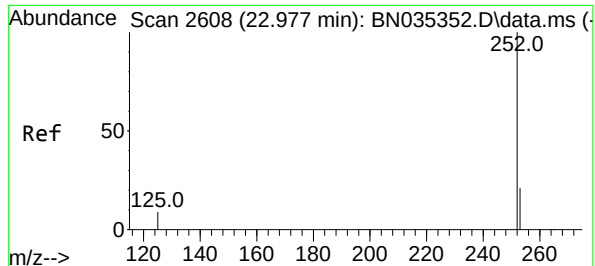
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3
125	23.7	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.102 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

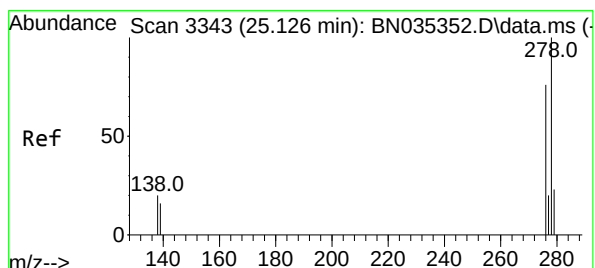
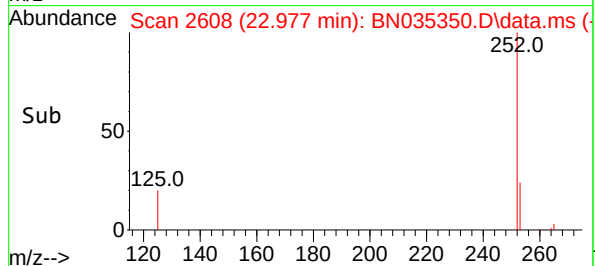
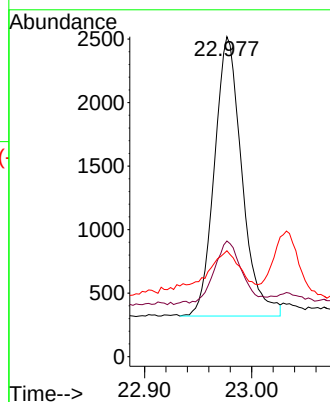
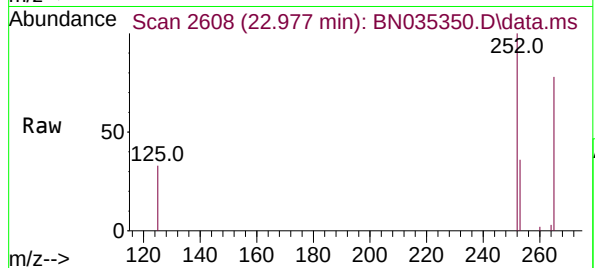
Tgt Ion:	252	Resp:	391
Ion Ratio	Lower	Upper	
252	100		
253	36.1	20.2	30.4
125	33.1	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

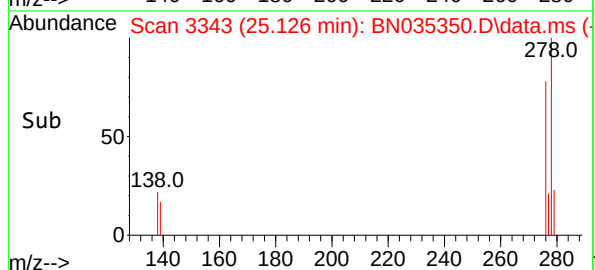
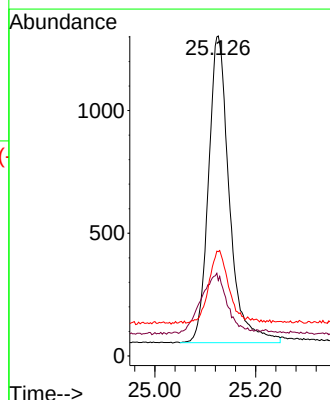
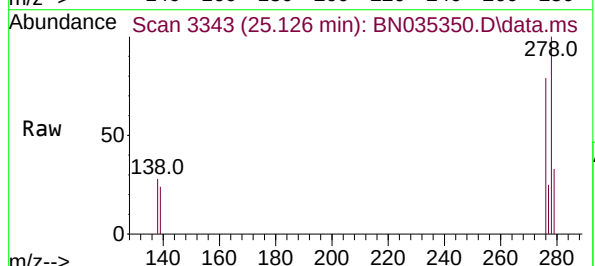
RT: 25.126 min Scan# 3343

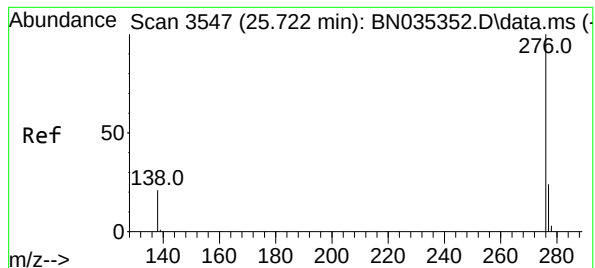
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

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





#41

Benzo(g,h,i)perylene

Concen: 0.088 ng

RT: 25.725 min Scan# 3

Delta R.T. 0.003 min

Lab File: BN035350.D

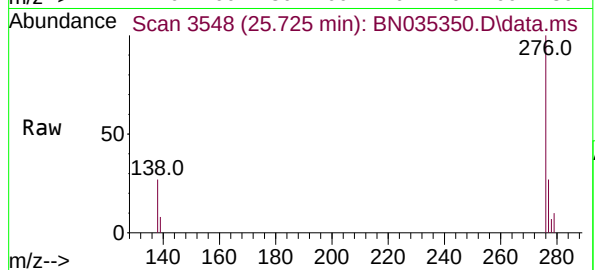
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 26.9 19.9 29.9

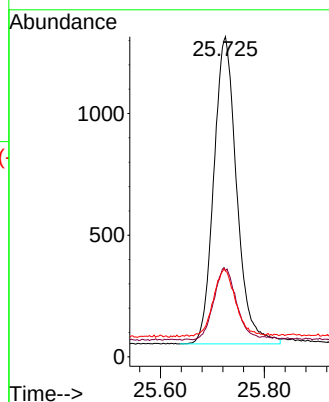
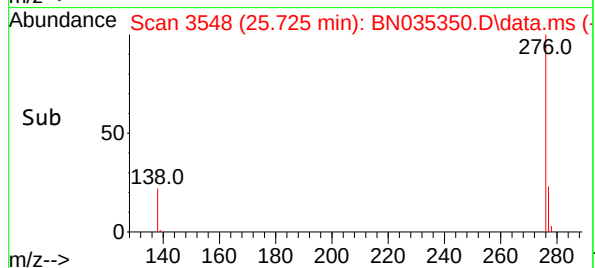
138 26.8 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



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

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:33 2024

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 22:48:24 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	618m	0.133	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						
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...	21.938	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

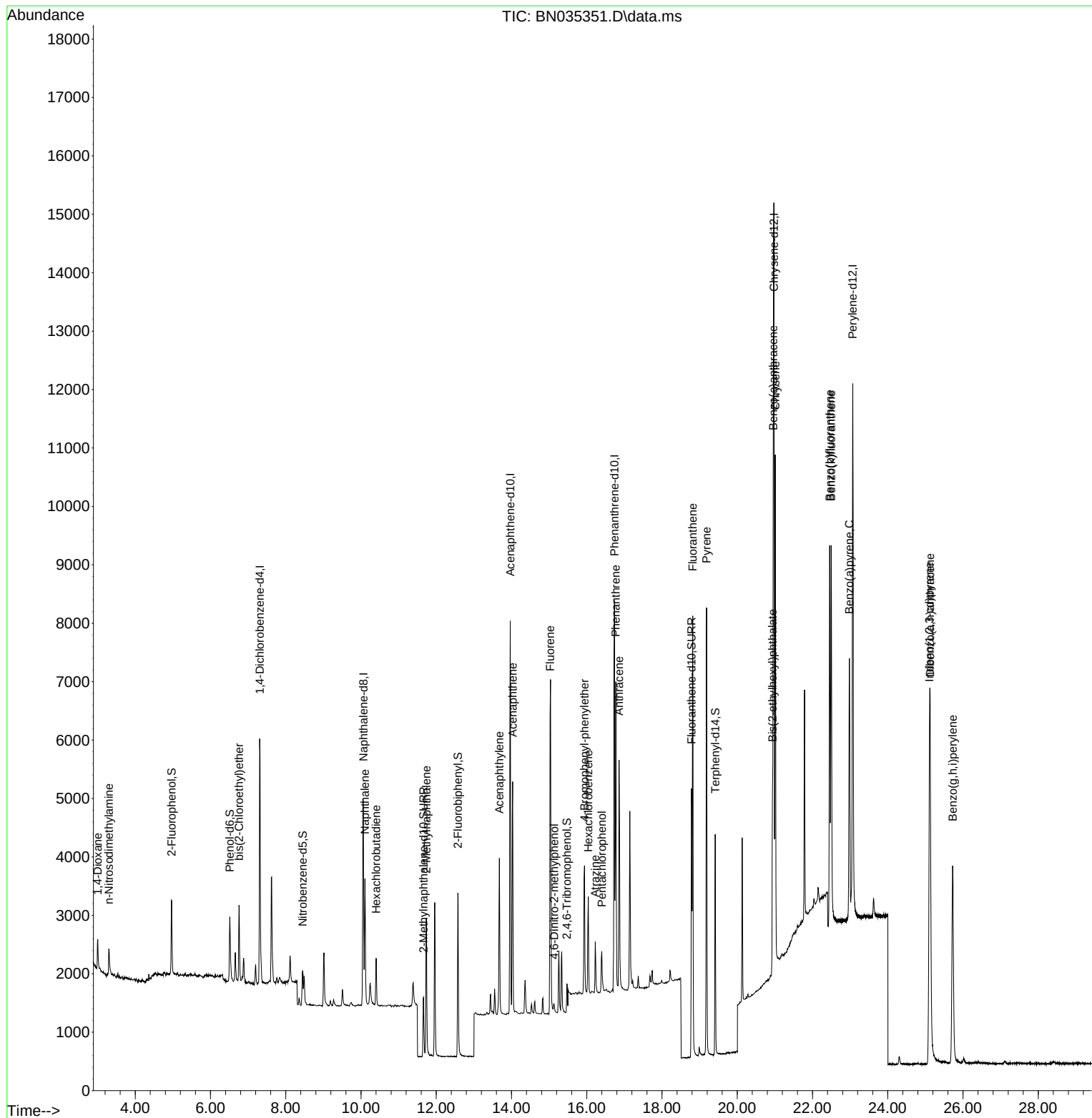
Manual Integrations

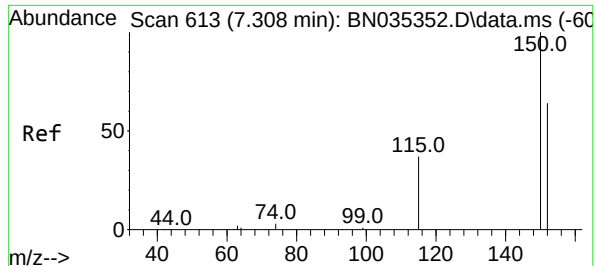
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

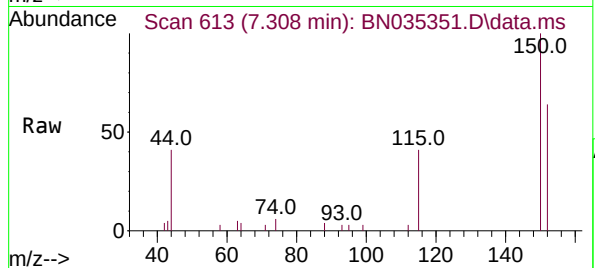
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





#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

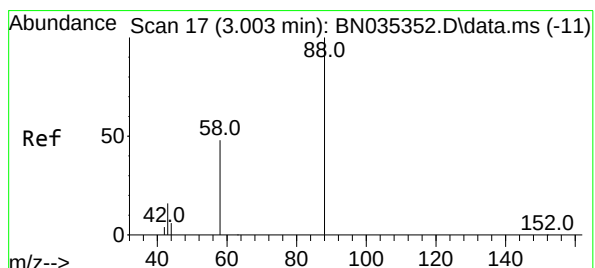
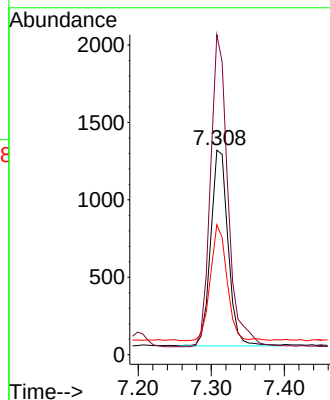
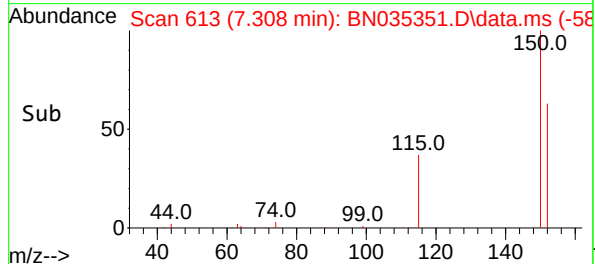
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

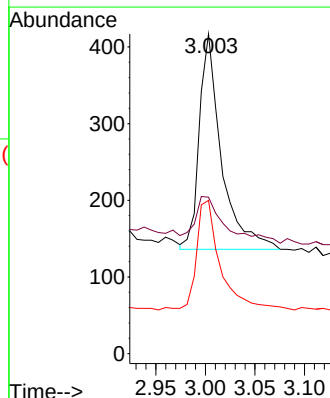
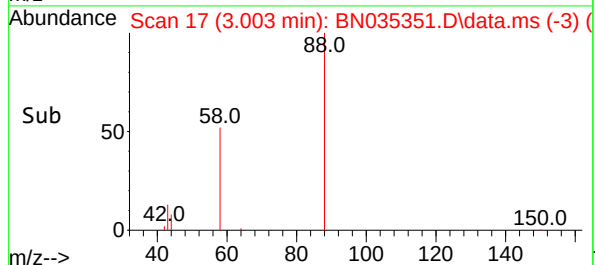
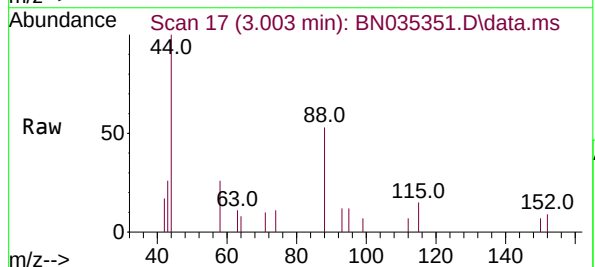
Manual Integrations
APPROVED

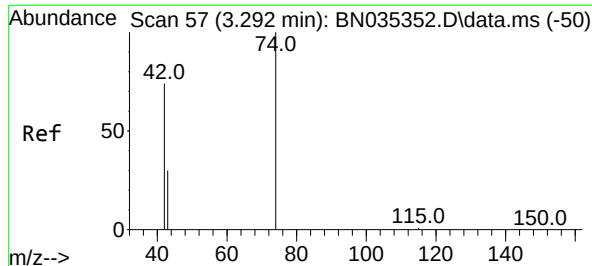
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 50
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

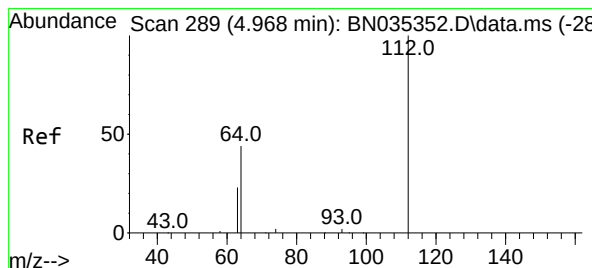
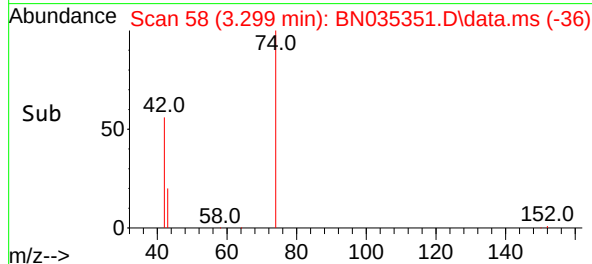
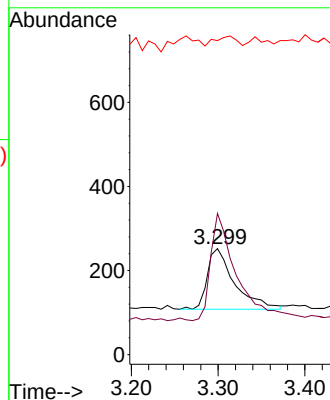
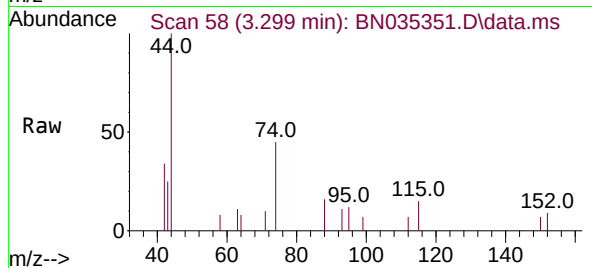
ClientSampleId :

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

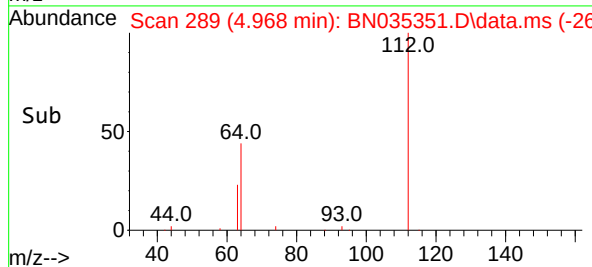
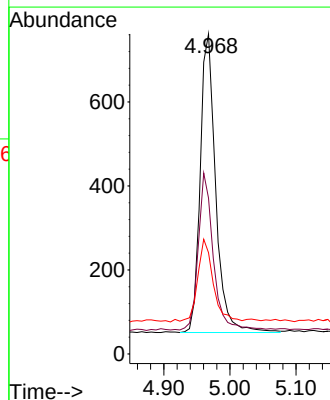
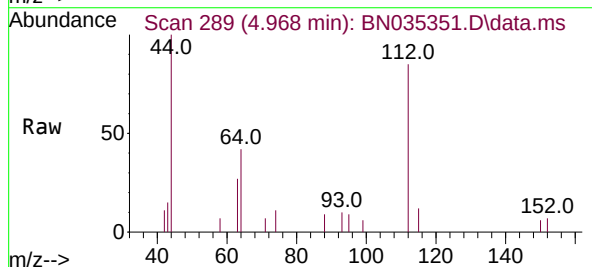
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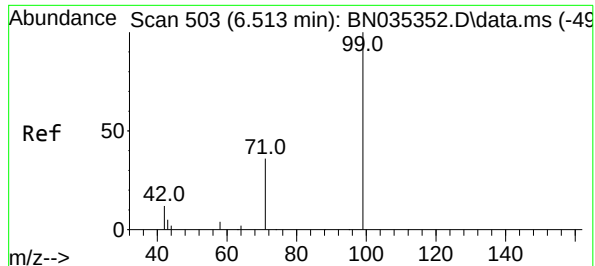
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





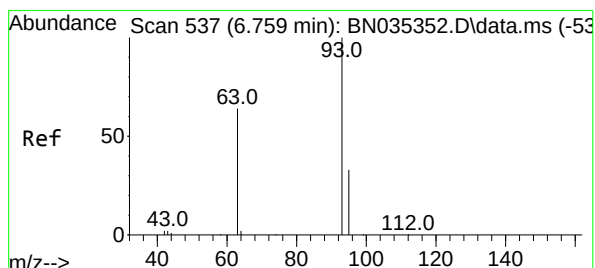
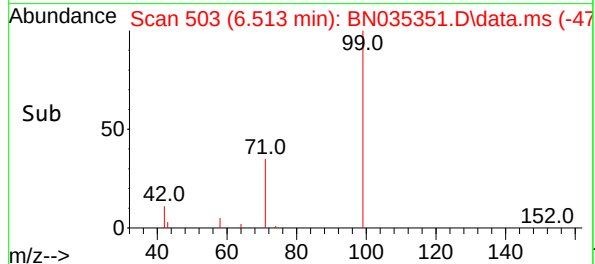
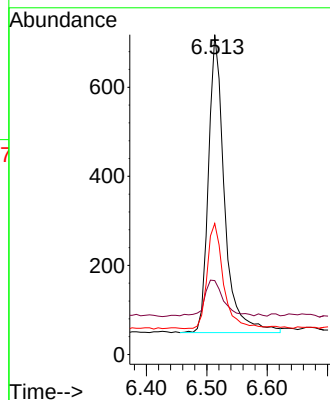
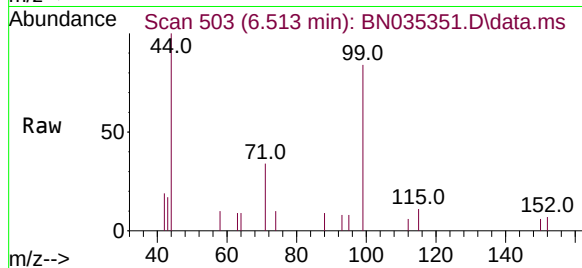
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1230
Ion Ratio Lower Upper
99 100
42 15.0 11.4 17.2
71 35.8 29.3 43.9

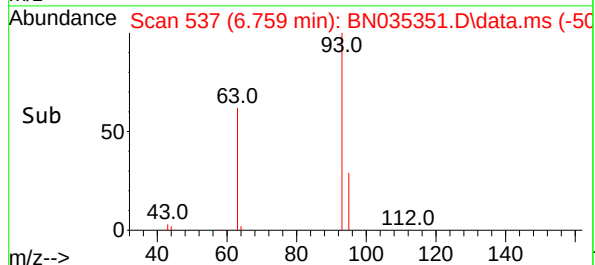
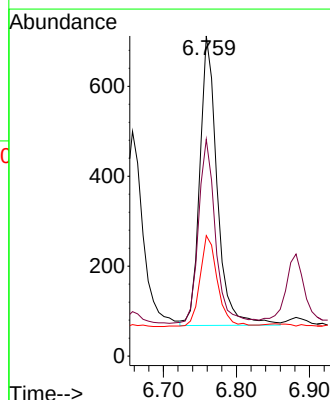
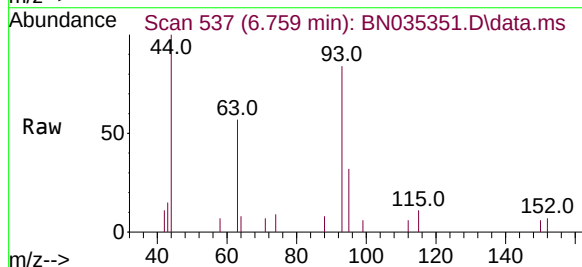
Manual Integrations
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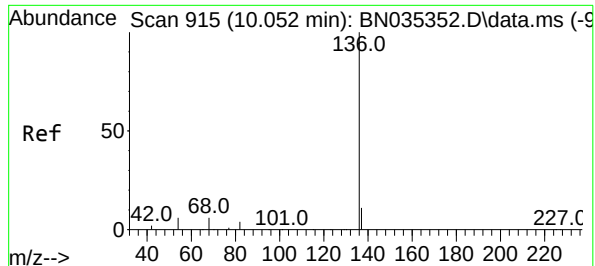
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.214 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





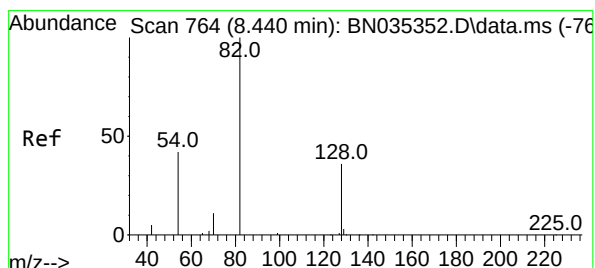
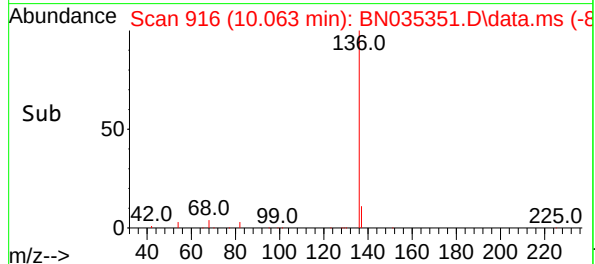
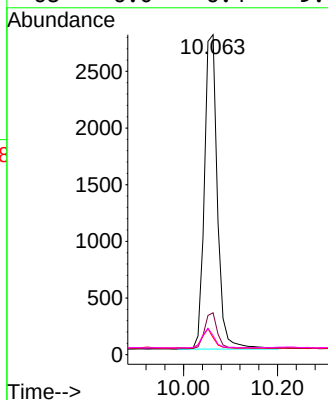
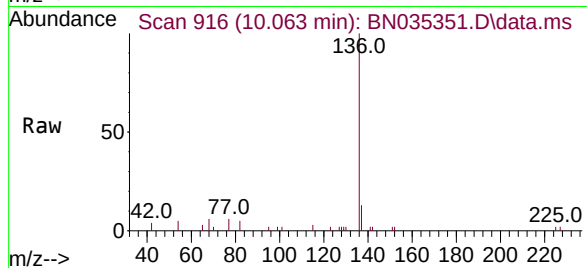
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 915
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

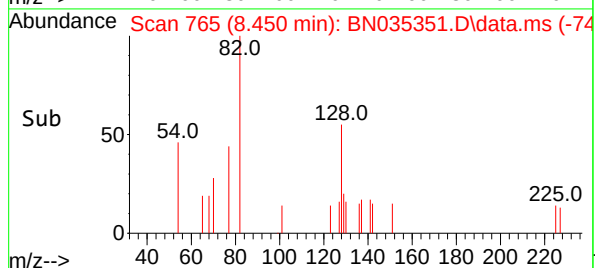
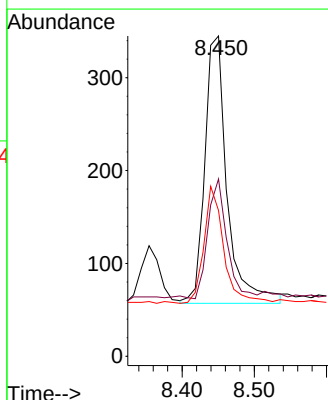
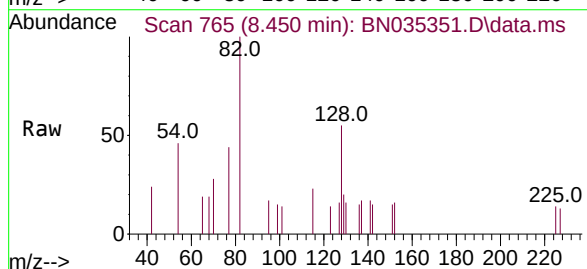
Manual Integrations
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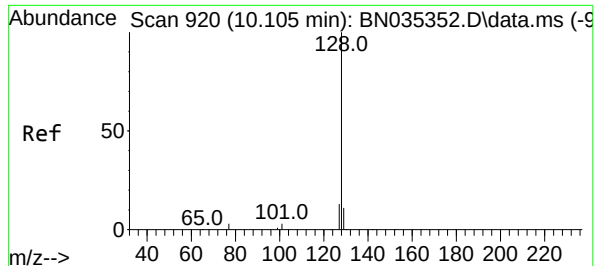
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





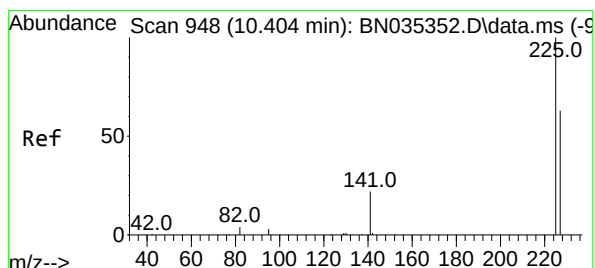
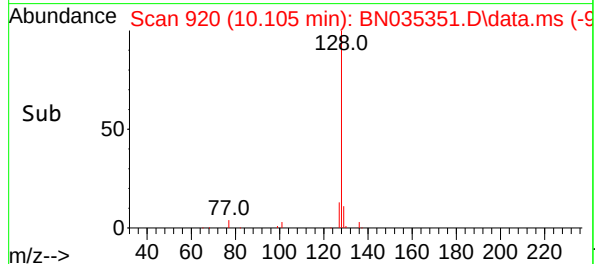
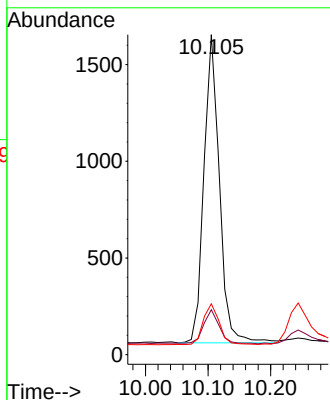
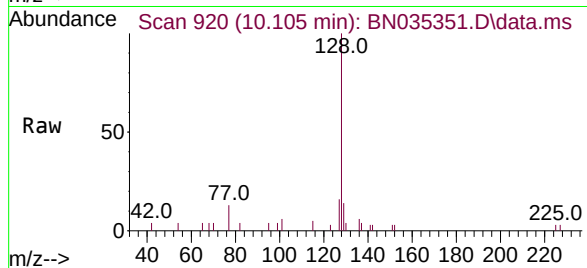
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 274
Ion Ratio Lower Upper
128 100
129 14.0 9.8 14.6
127 15.9 11.4 17.2

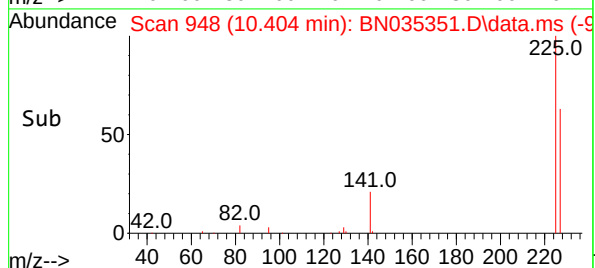
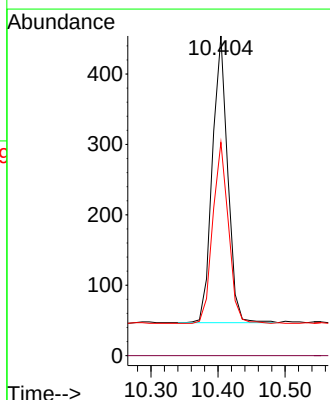
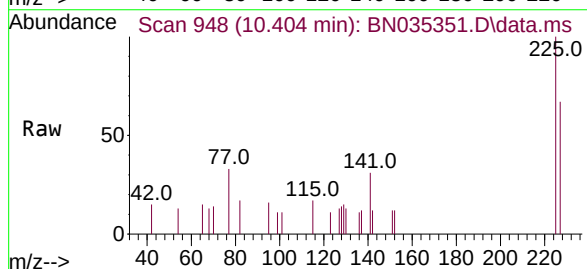
Manual Integrations
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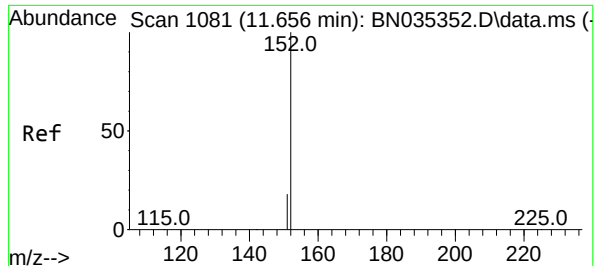
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

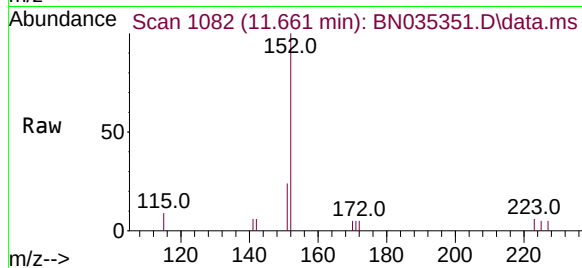
Tgt Ion:225 Resp: 646
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#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

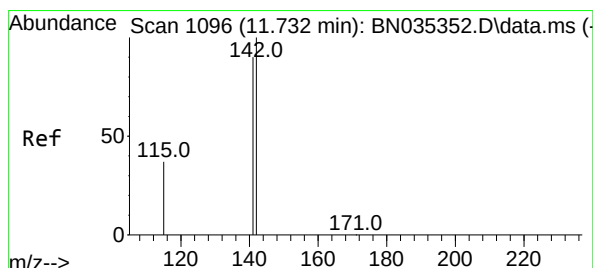
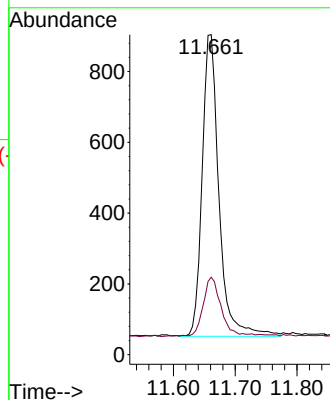
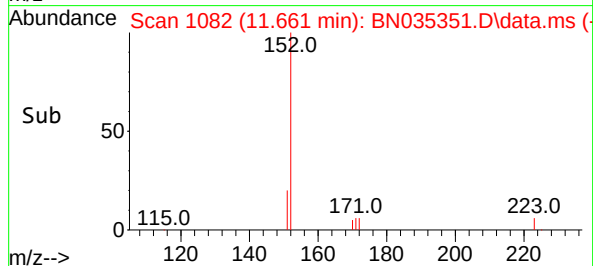
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

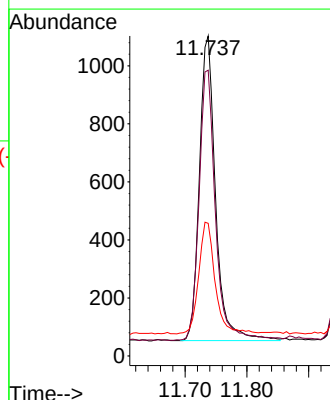
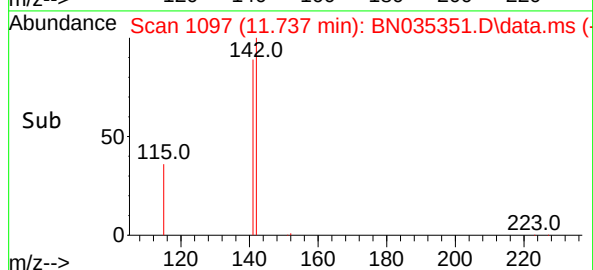
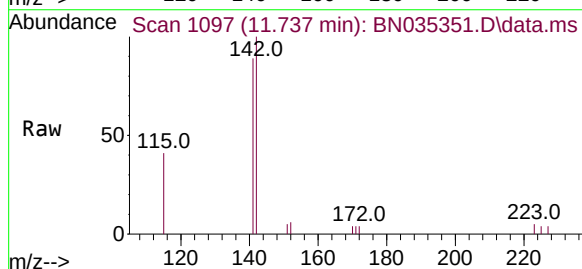
Manual Integrations
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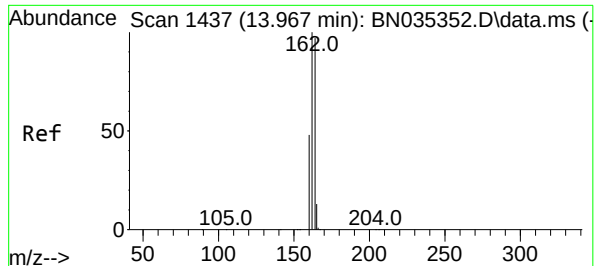
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

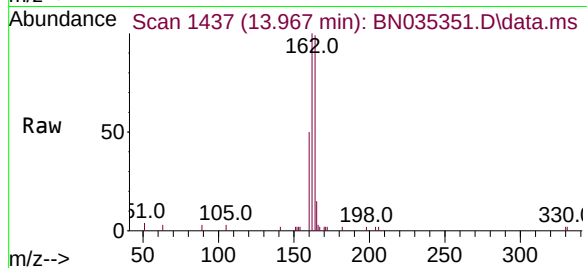
Tgt Ion:142 Resp: 1910
Ion Ratio Lower Upper
142 100
141 89.3 72.2 108.4
115 41.4 31.4 47.0





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

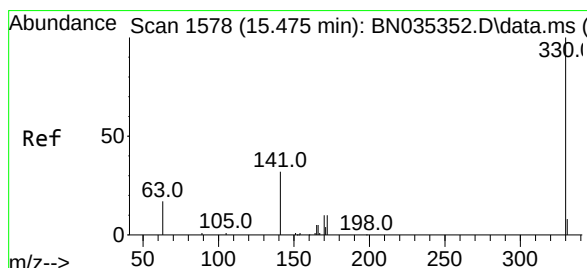
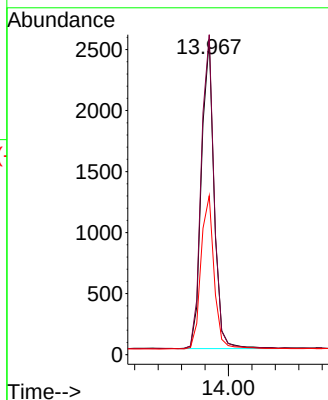
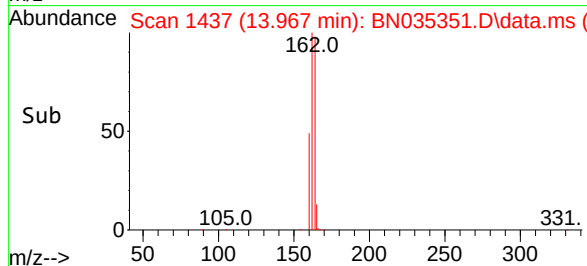
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



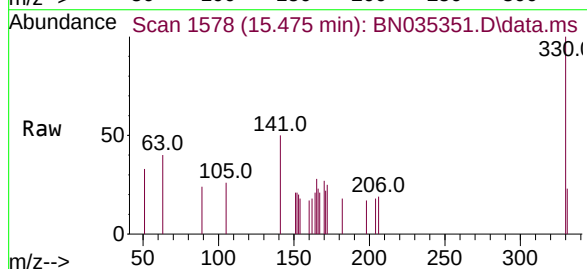
Tgt Ion:164 Resp: 380
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 50.4 40.1 60.1

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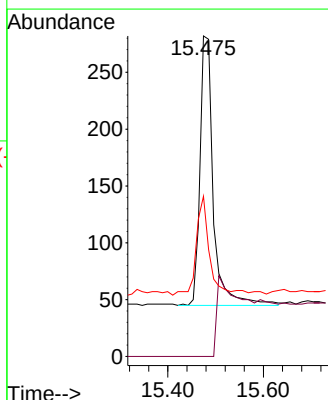
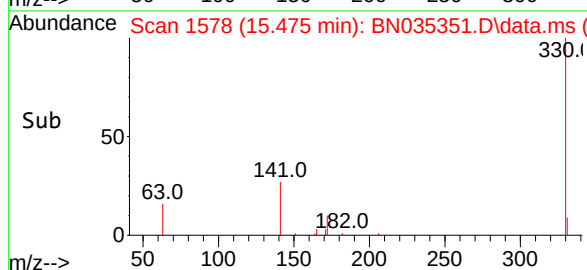
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

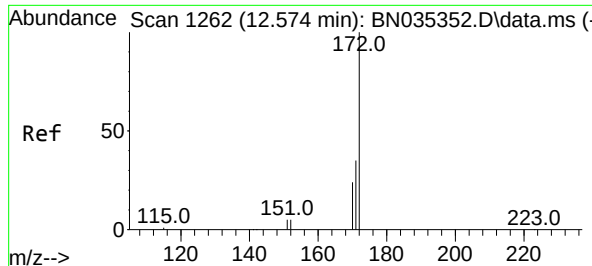


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



Tgt Ion:330 Resp: 492
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 37.2 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.184 ng

RT: 12.574 min Scan# 11

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

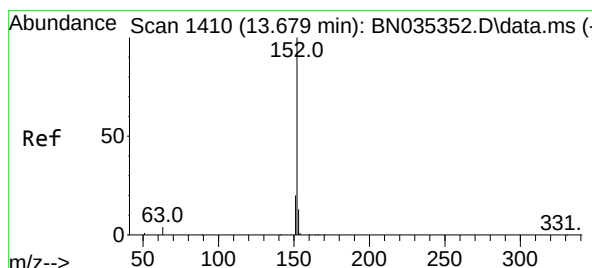
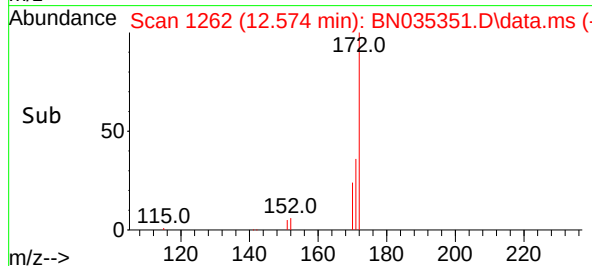
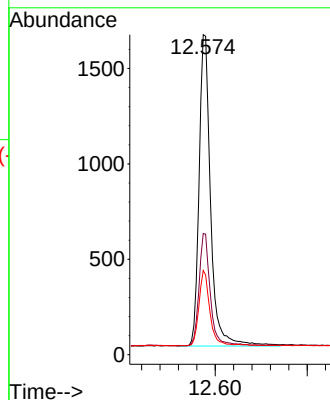
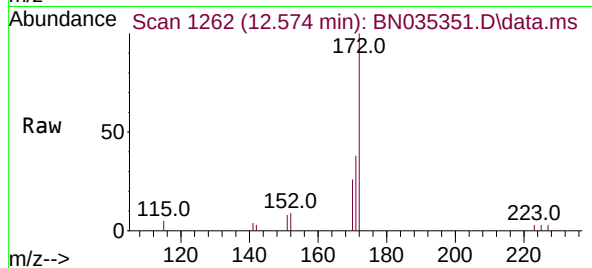
170 26.3 19.8 29.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.187 ng

RT: 13.678 min Scan# 1410

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

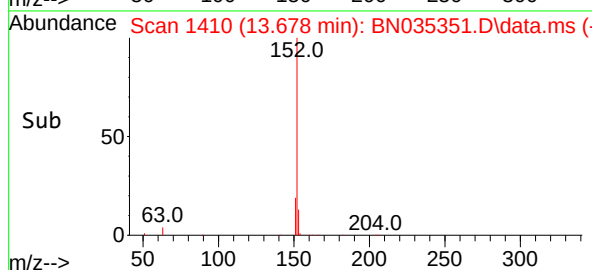
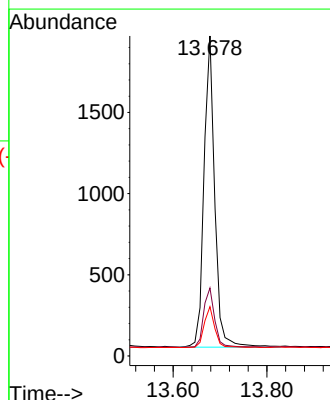
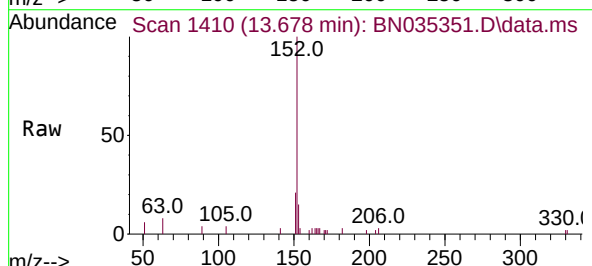
Tgt Ion:152 Resp: 3047

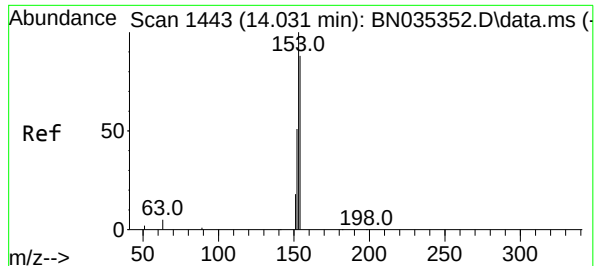
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

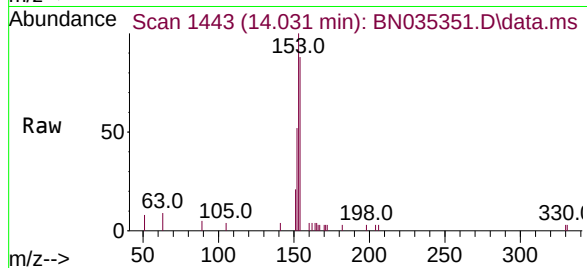
153 12.9 10.4 15.6





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

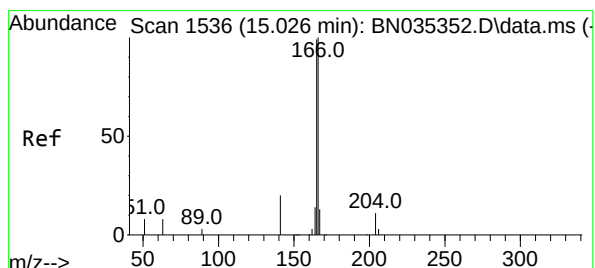
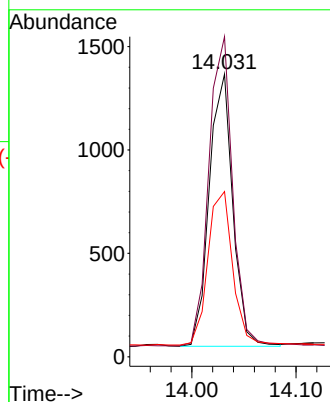
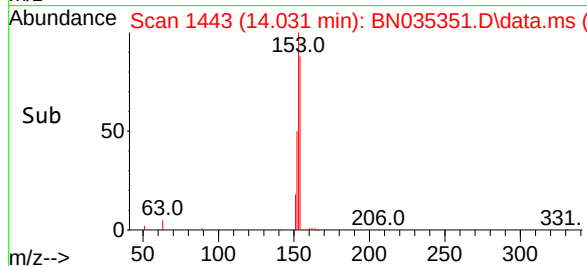
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 2064
Ion Ratio Lower Upper
154 100
153 115.2 92.6 139.0
152 60.7 49.0 73.6

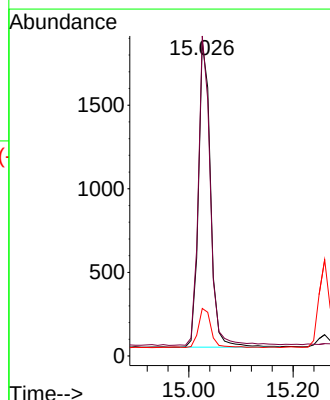
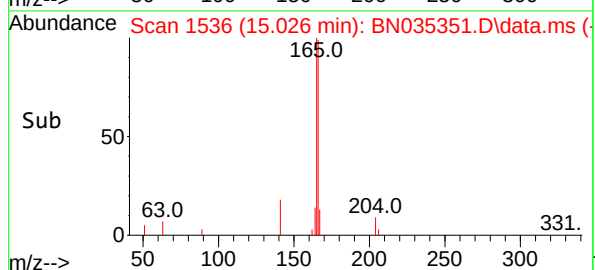
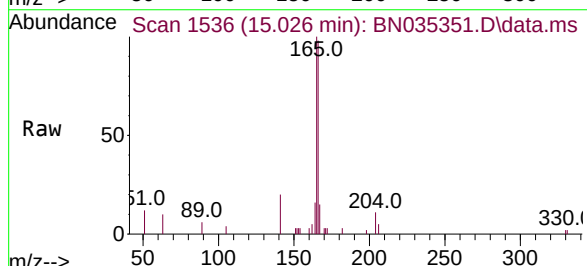
Manual Integrations
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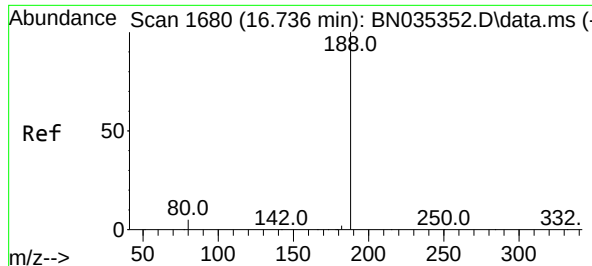
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

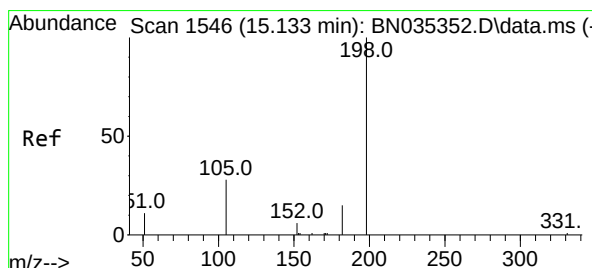
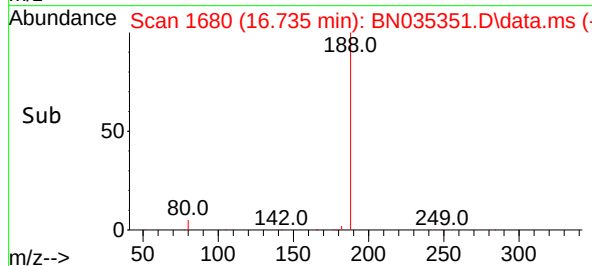
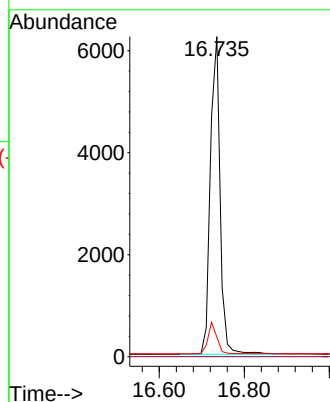
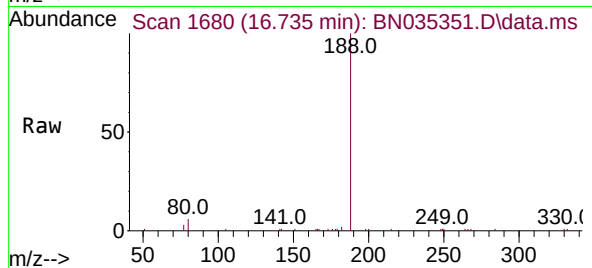
SSTDICC0.2

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

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

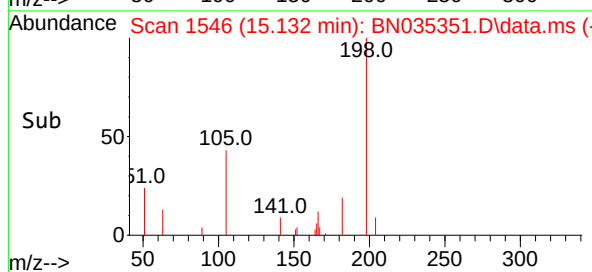
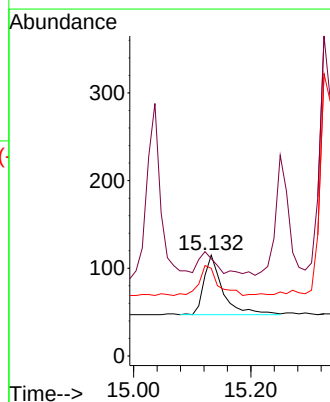
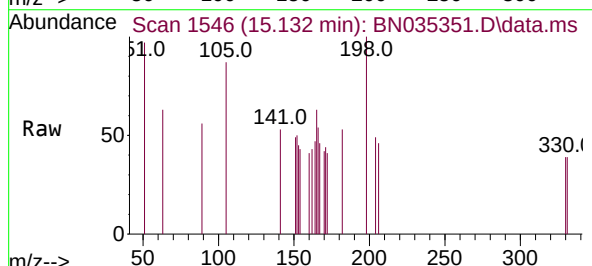
RT: 15.132 min Scan# 1546

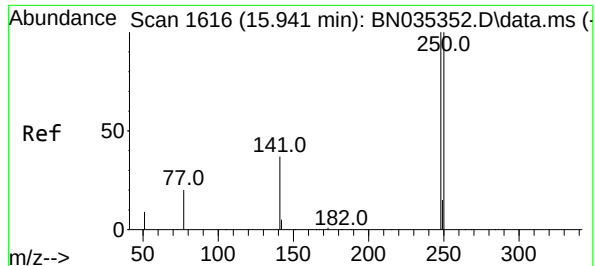
Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

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





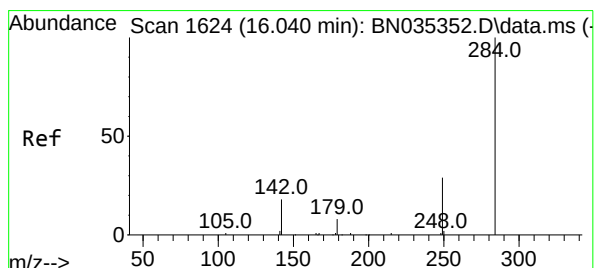
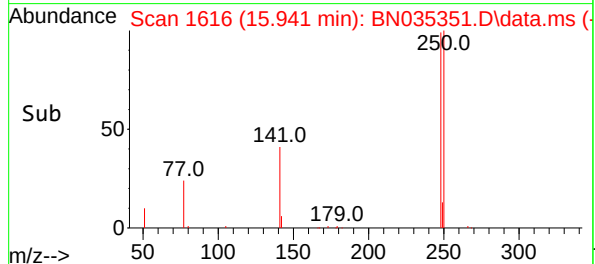
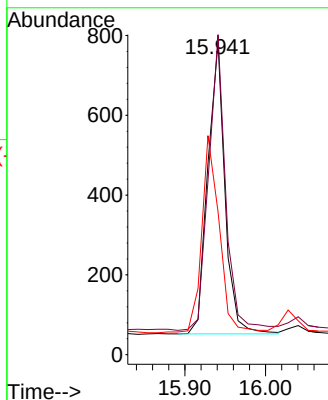
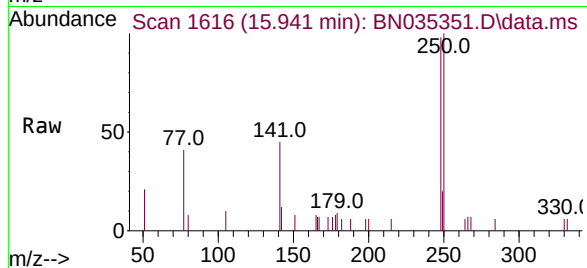
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

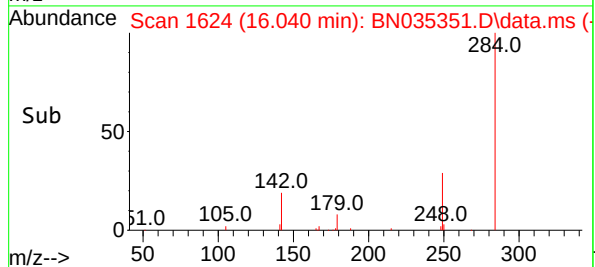
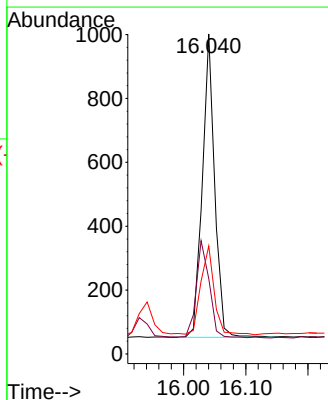
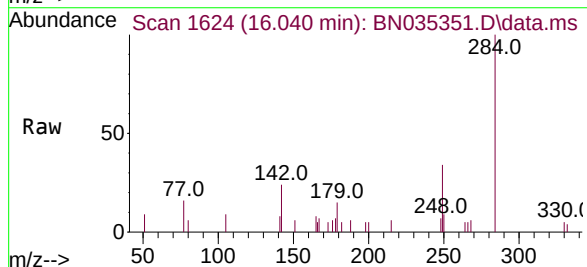
Manual Integrations
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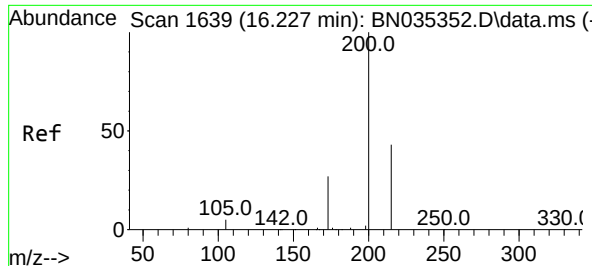
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

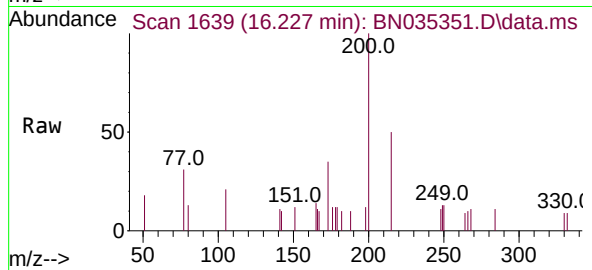
Tgt Ion:284 Resp: 1318
Ion Ratio Lower Upper
284 100
142 34.2 26.7 40.1
249 32.0 24.6 36.8





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

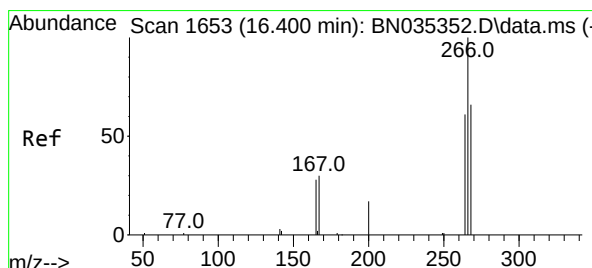
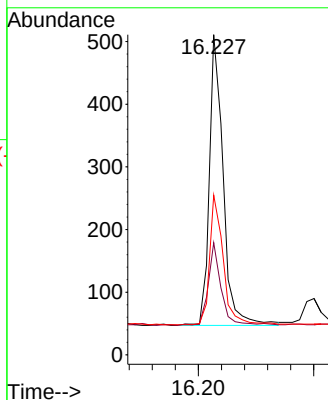
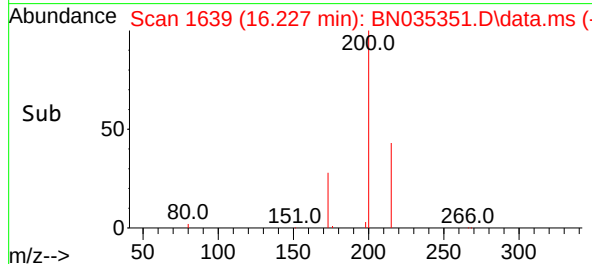
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 770
Ion Ratio Lower Upper
200 100
173 35.0 24.1 36.1
215 49.9 36.9 55.3

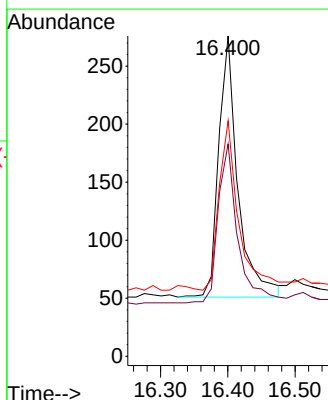
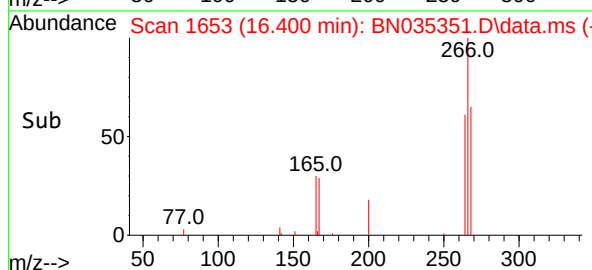
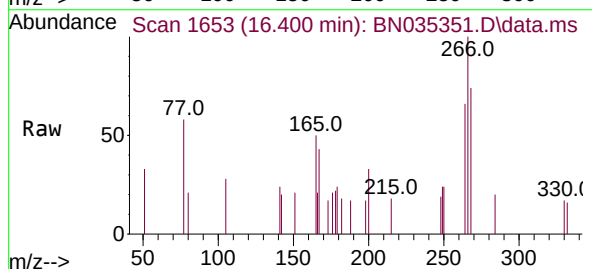
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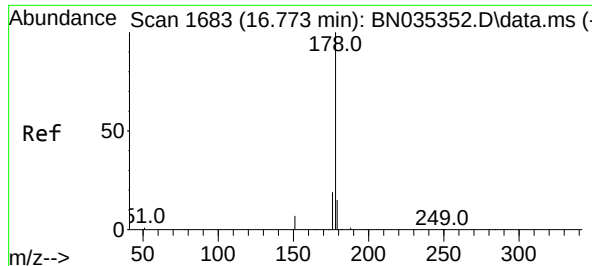
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





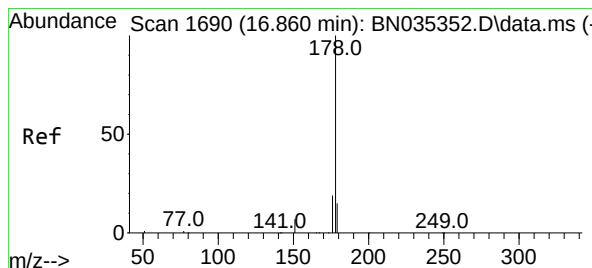
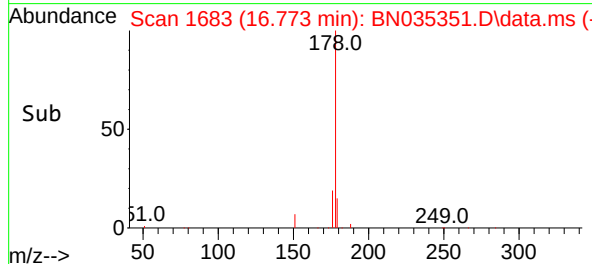
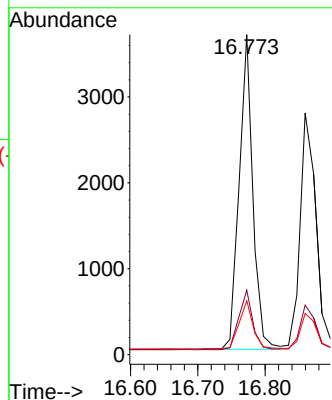
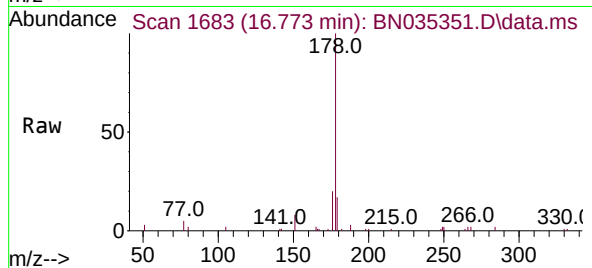
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 518
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.9 12.3 18.5

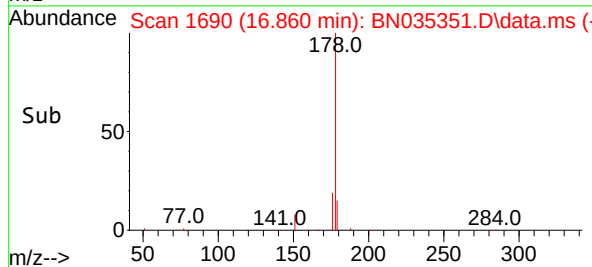
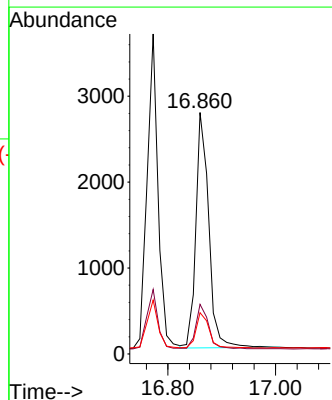
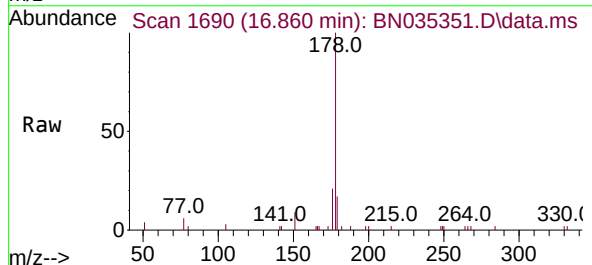
Manual Integrations
APPROVED

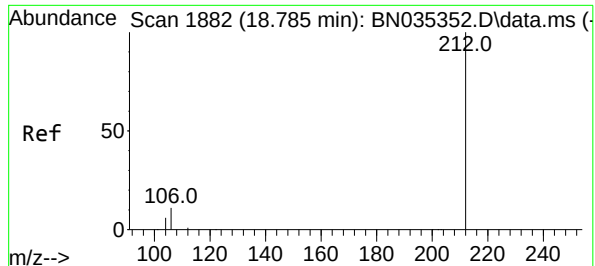
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.177 ng

RT: 18.784 min Scan# 1882

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

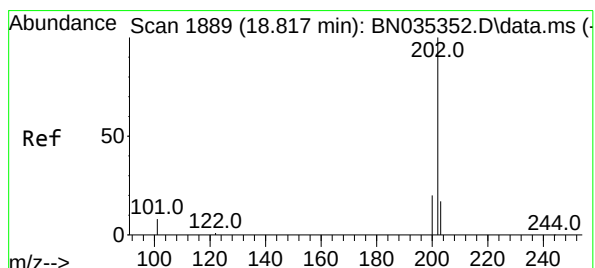
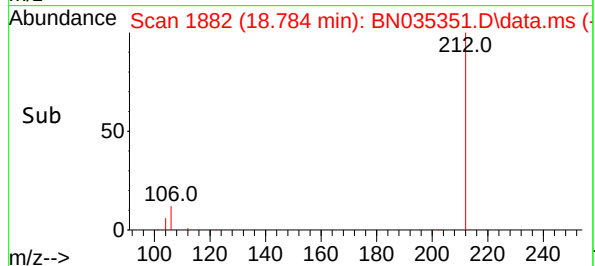
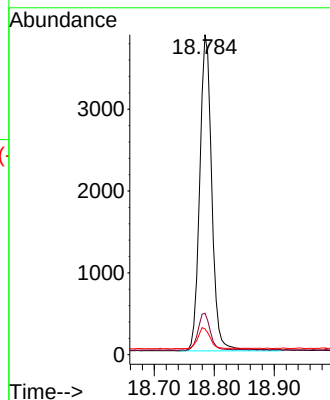
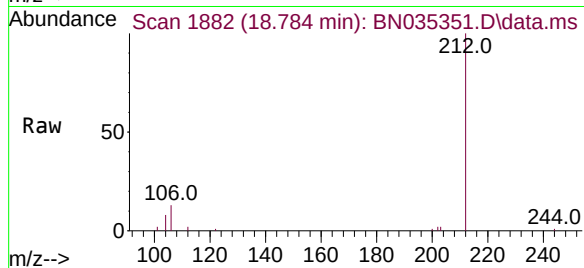
Tgt Ion:	212	Resp:	5379
Ion Ratio	Lower	Upper	
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.193 ng

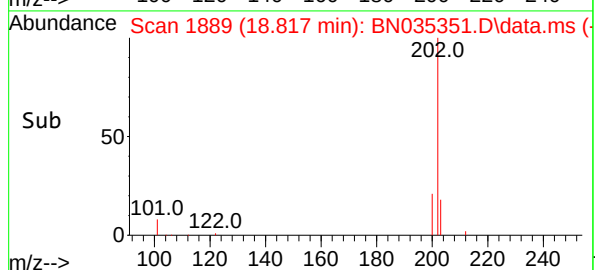
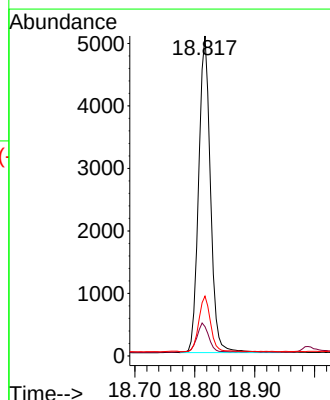
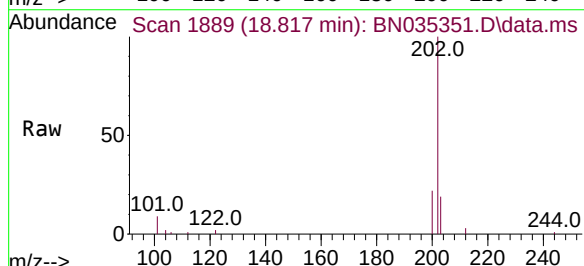
RT: 18.817 min Scan# 1889

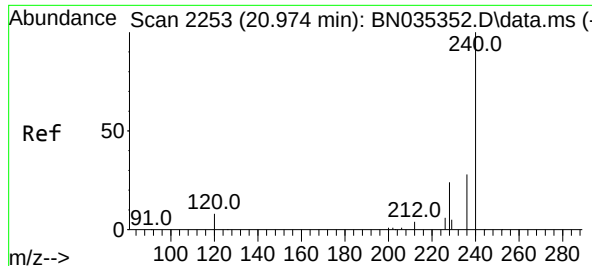
Delta R.T. -0.000 min

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

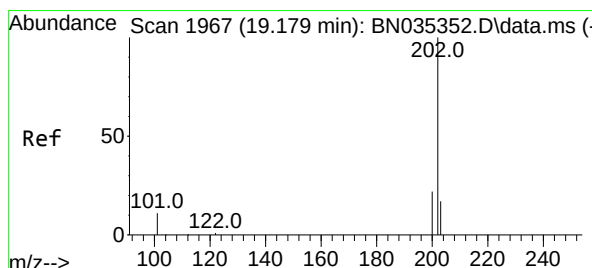
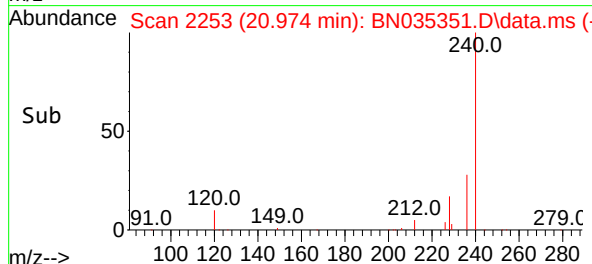
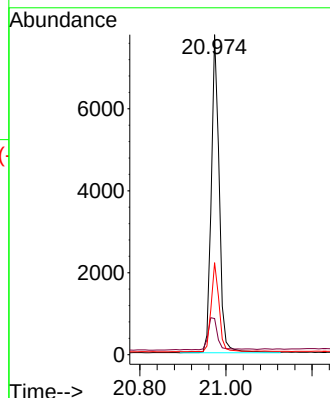
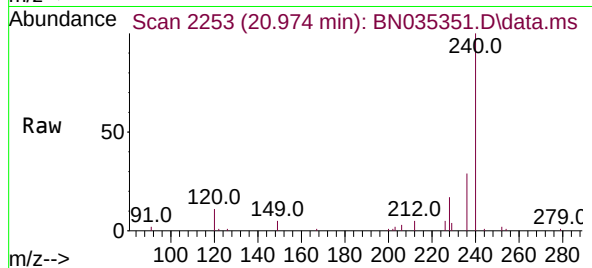
ClientSampleId :

SSTDIC0.2

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

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



#30

Pyrene

Concen: 0.217 ng

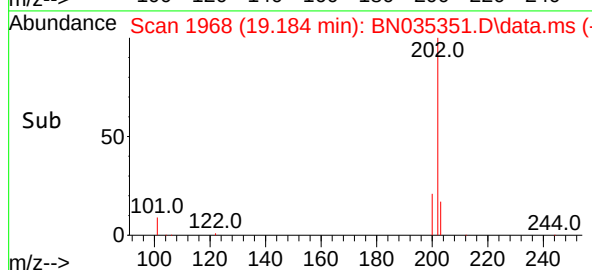
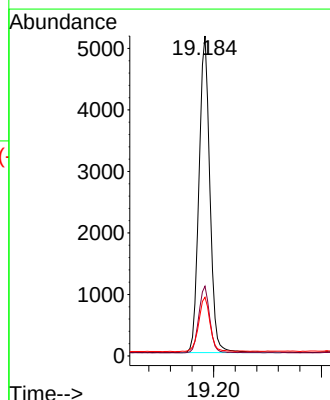
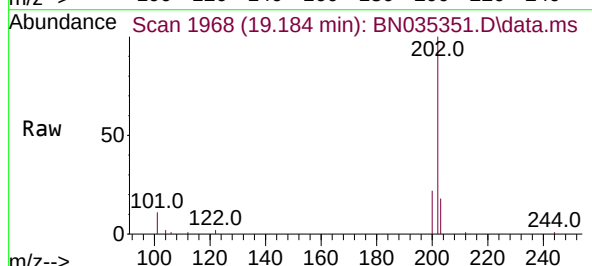
RT: 19.184 min Scan# 1968

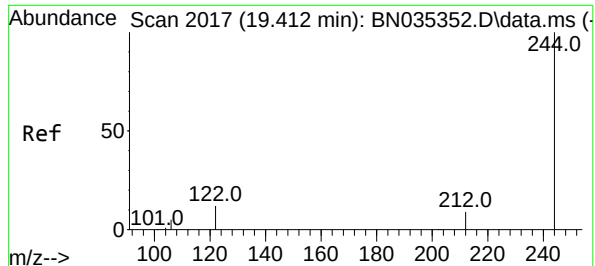
Delta R.T. 0.005 min

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

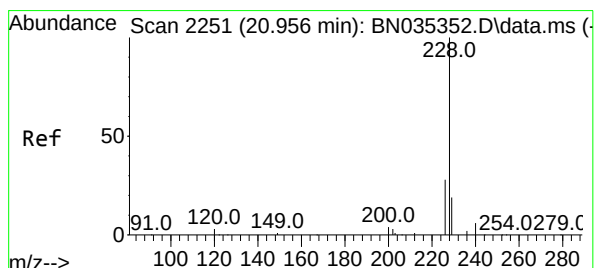
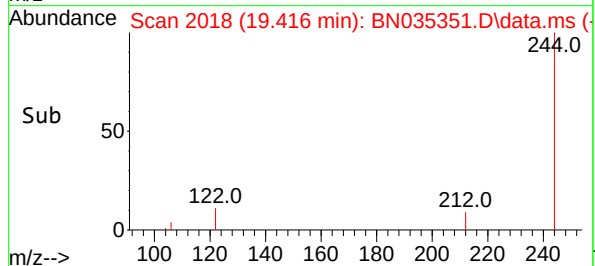
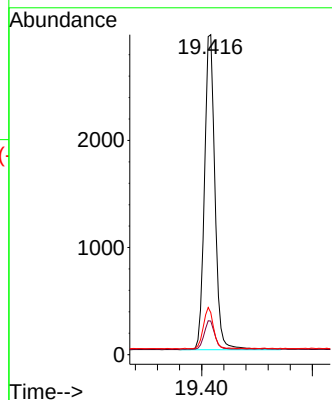
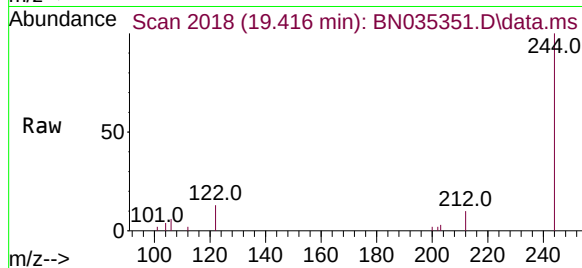
ClientSampleId :

SSTDICC0.2

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

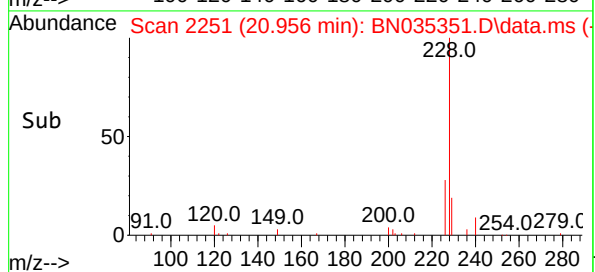
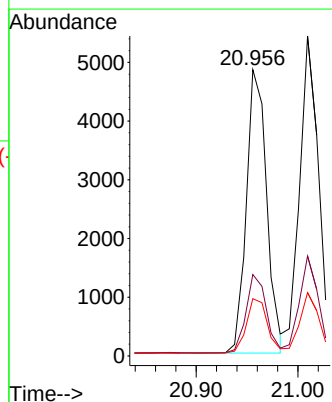
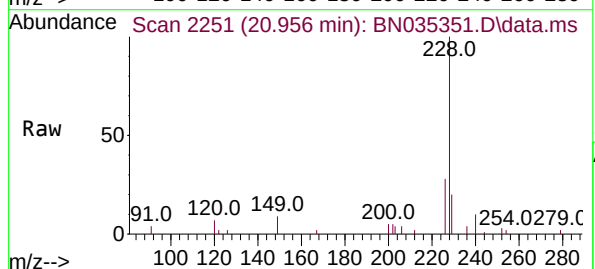
Manual Integrations
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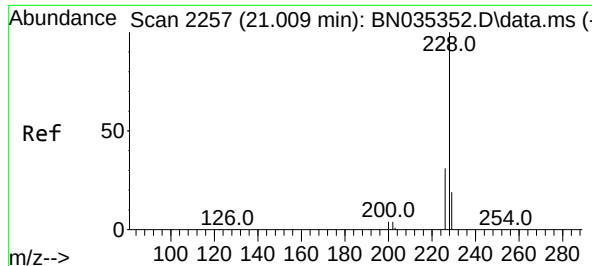
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





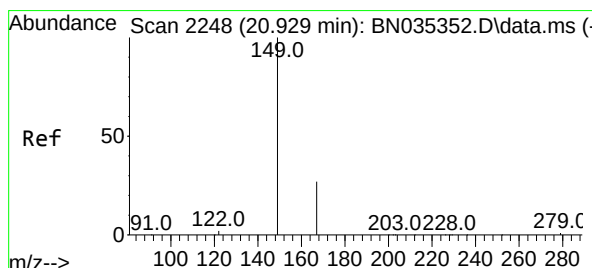
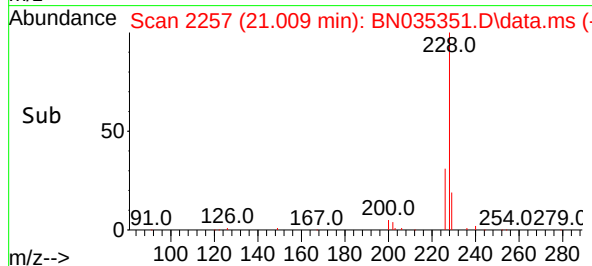
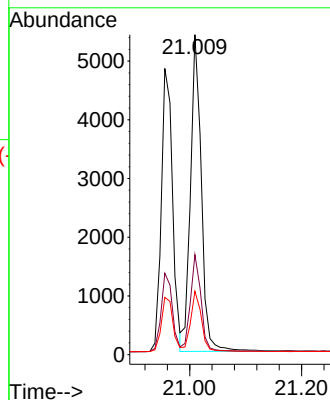
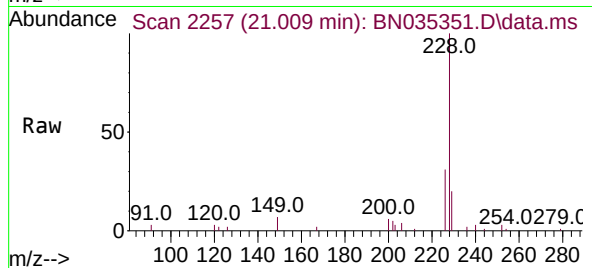
#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 21009
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

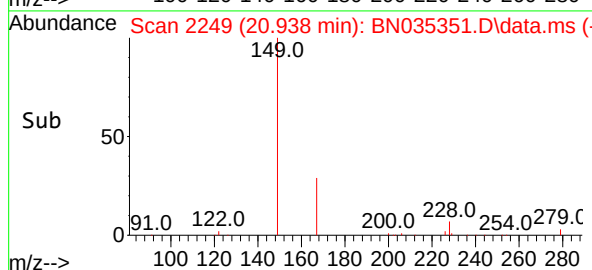
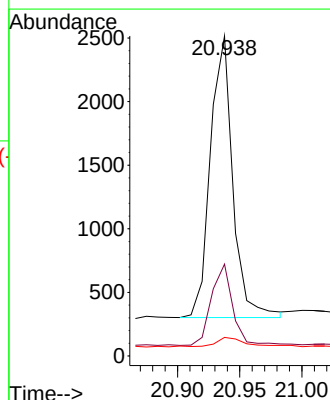
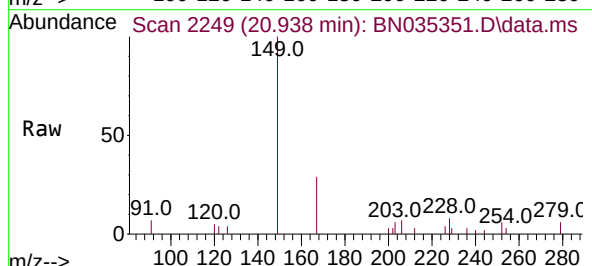
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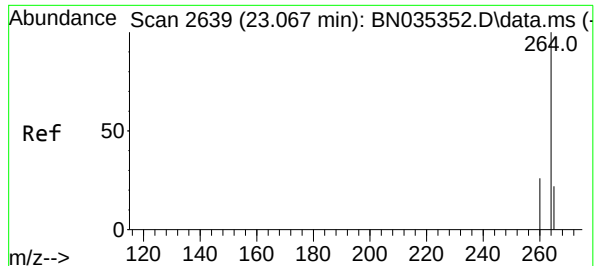
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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#





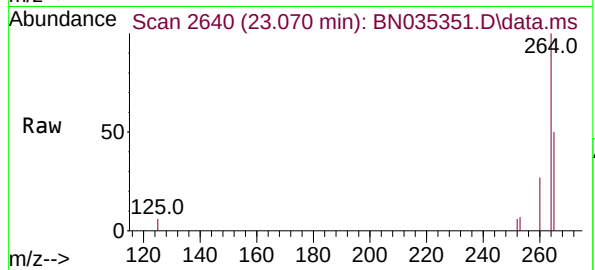
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

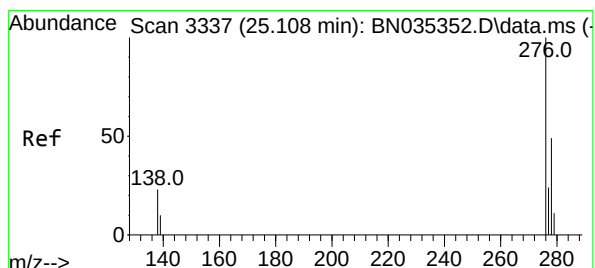
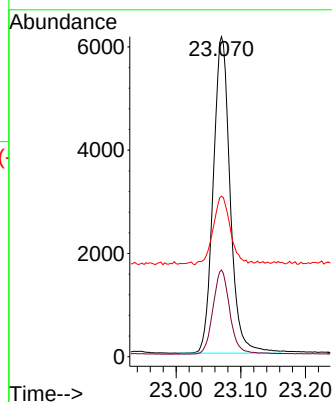
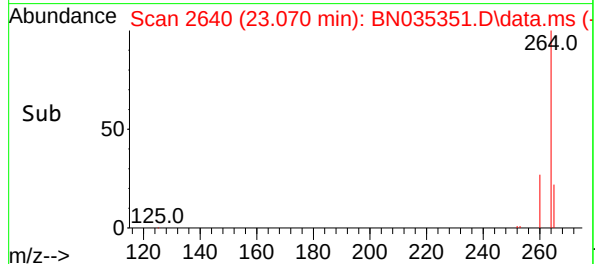


Tgt Ion:264 Resp: 11158
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 50.2 40.2 60.4

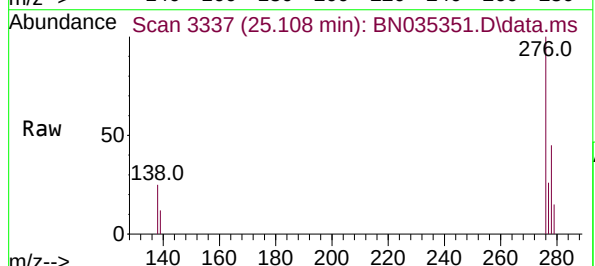
Manual Integrations

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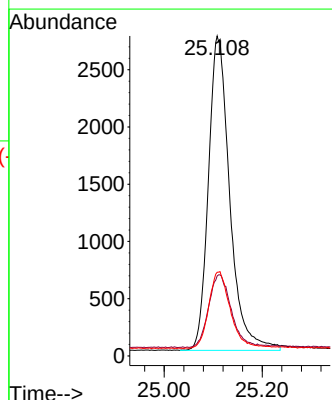
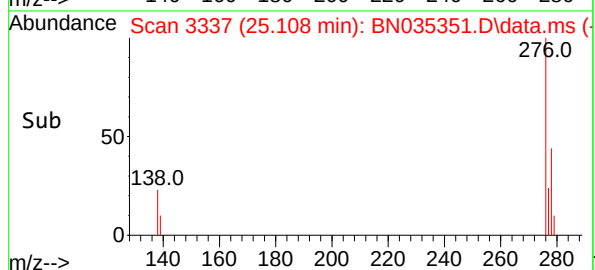
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

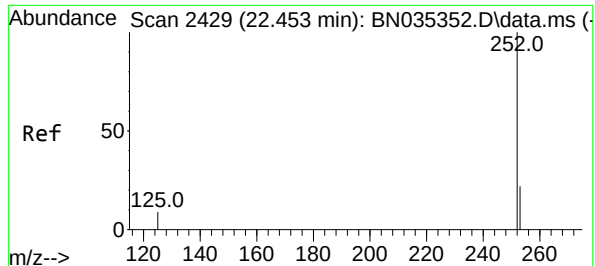


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



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 :

SSTDIC0.2

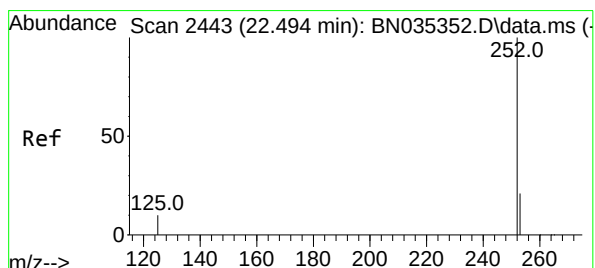
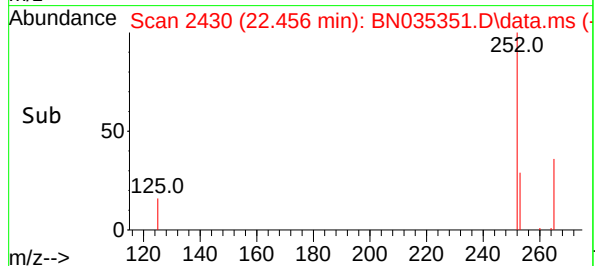
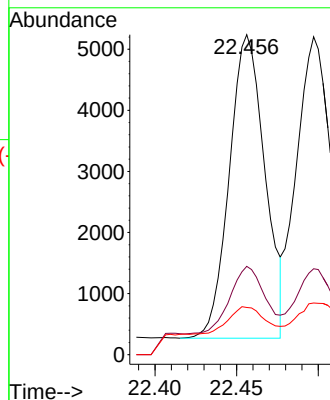
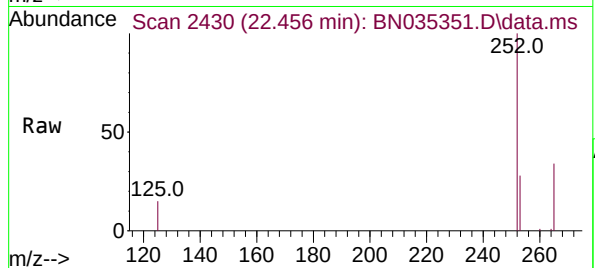
Tgt Ion:	252	Resp:	752
Ion Ratio	Lower	Upper	
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4

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

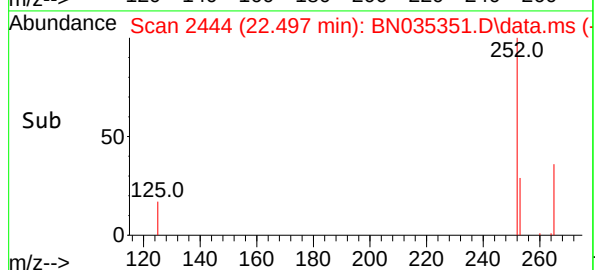
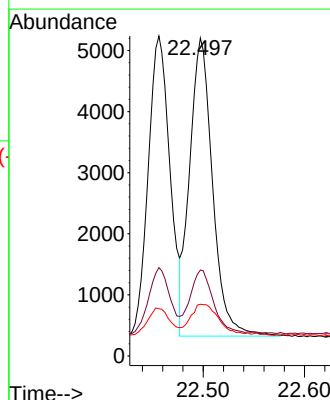
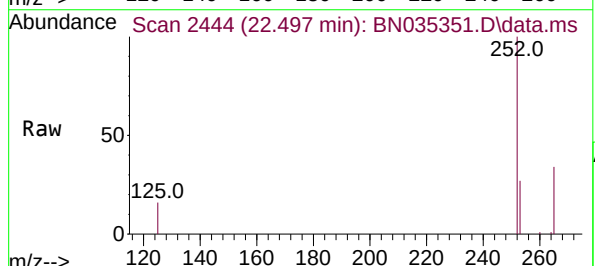
RT: 22.497 min Scan# 2444

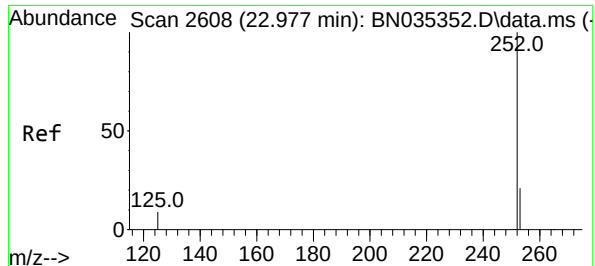
Delta R.T. 0.003 min

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

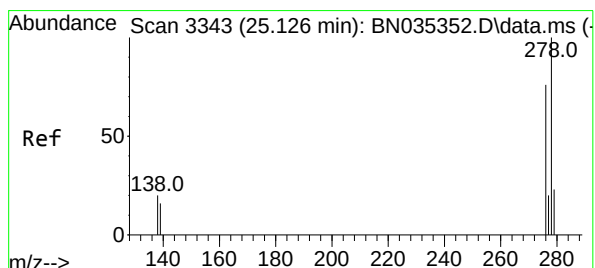
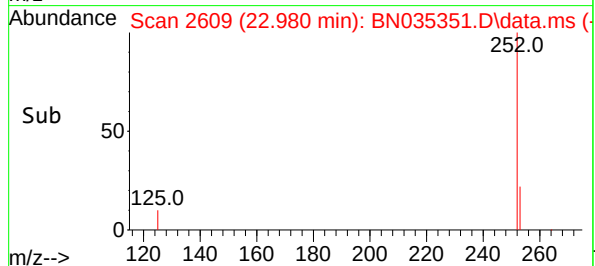
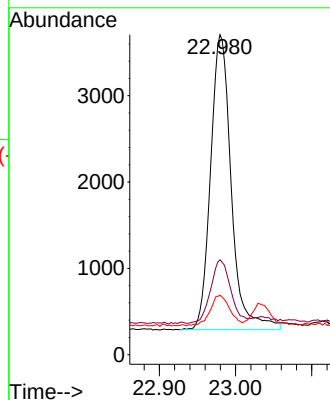
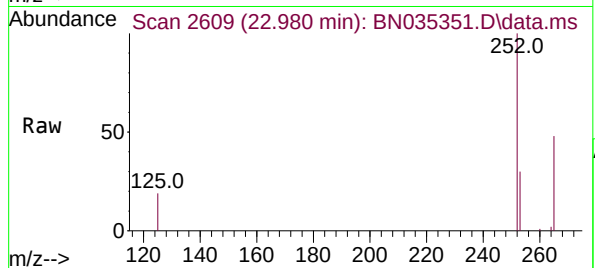
Tgt Ion:252	Resp:	6450
Ion Ratio	Lower	Upper
252	100	
253	29.7	20.2 30.4
125	18.5	10.9 16.3

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

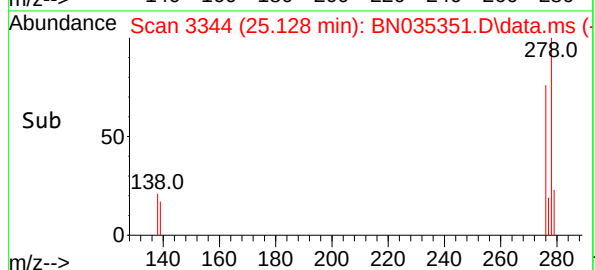
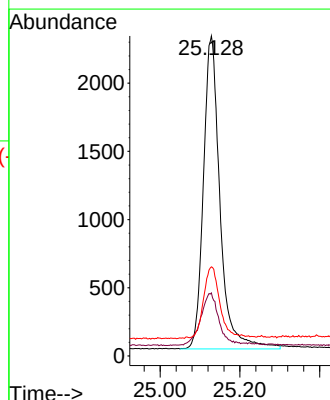
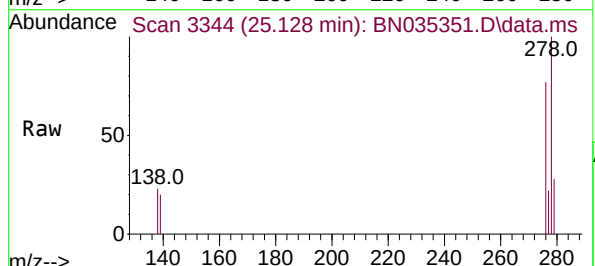
RT: 25.128 min Scan# 3344

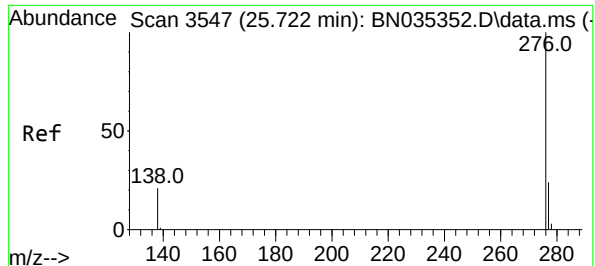
Delta R.T. 0.003 min

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# 31

Delta R.T. 0.003 min

Lab File: BN035351.D

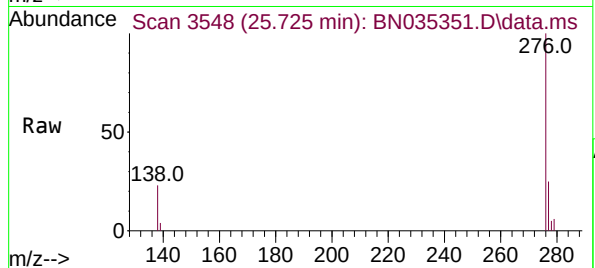
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6908

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

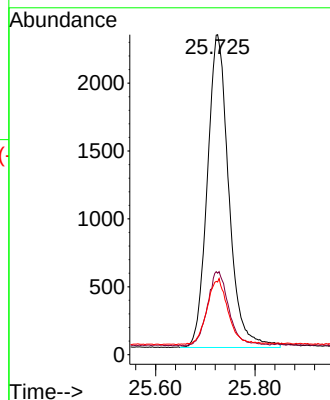
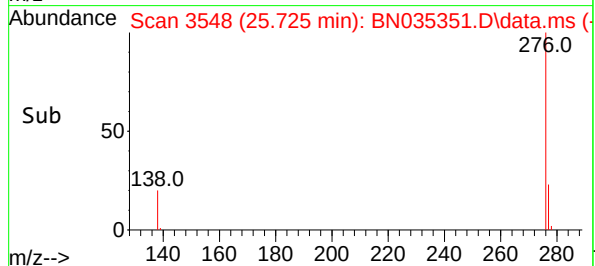
138 22.7 17.8 26.8

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

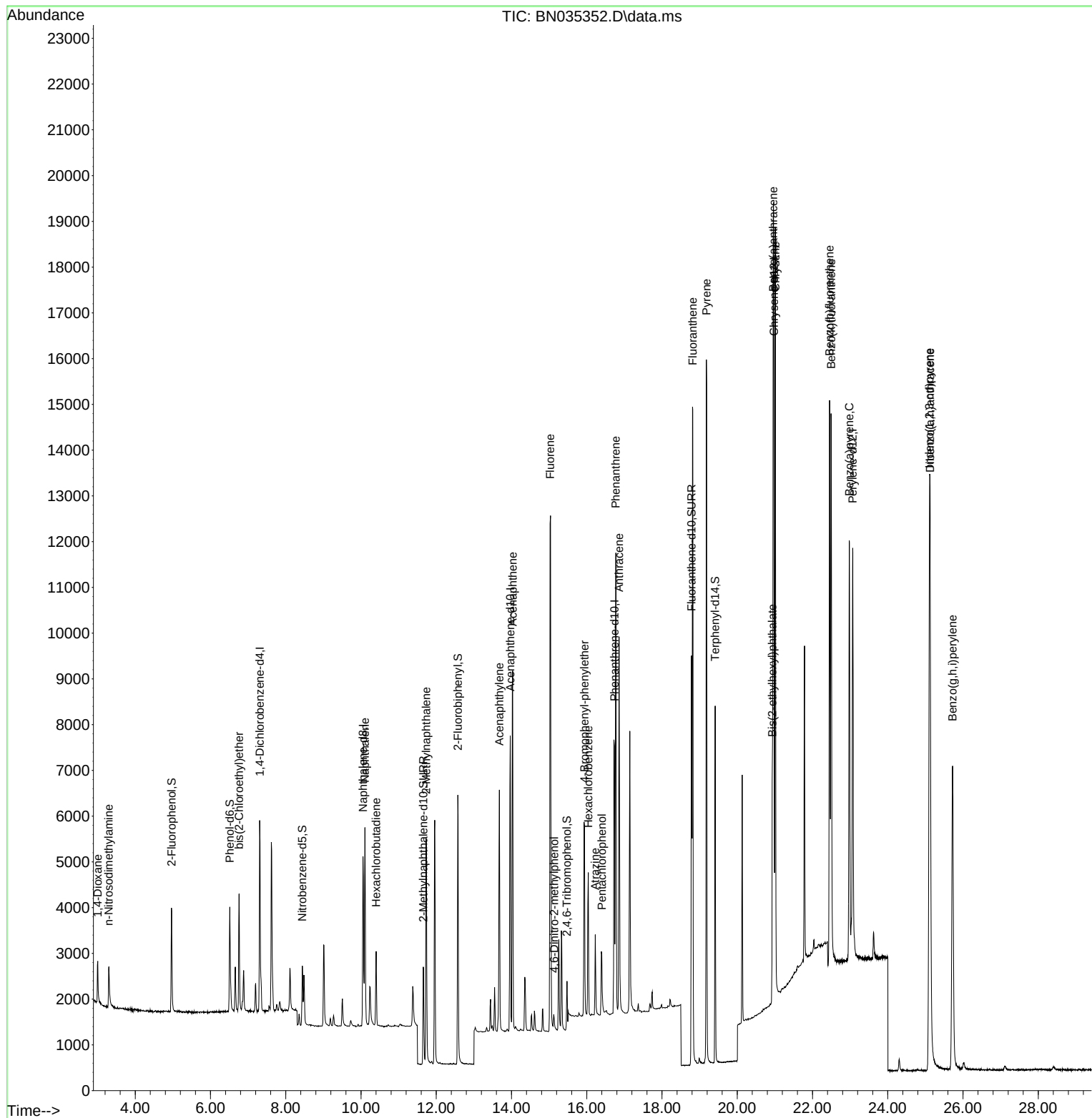
Response via : Initial Calibration

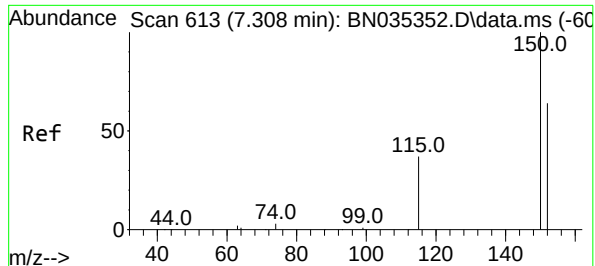
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

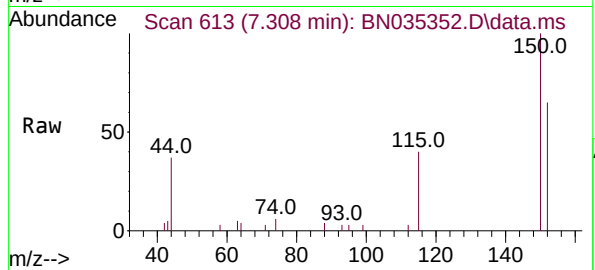
Supervised By :mohammad ahmed 12/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

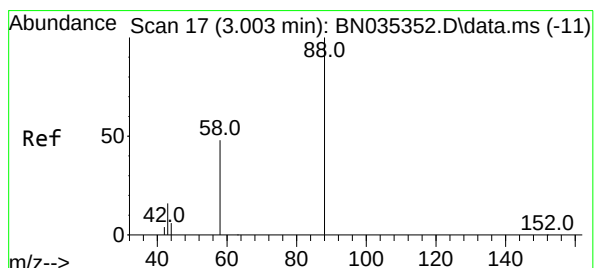
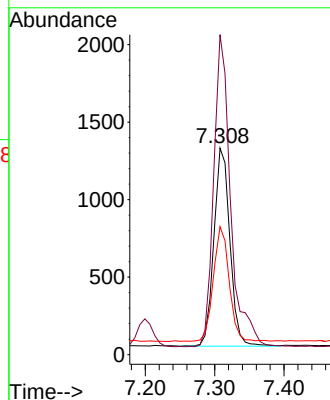
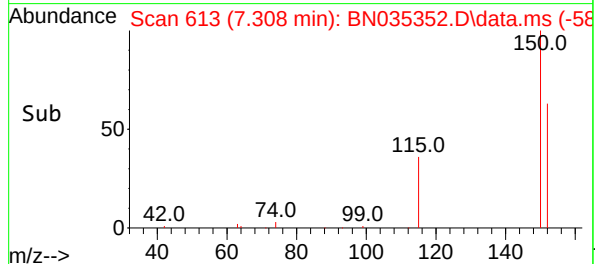
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion: 152 Resp: 2048
Ion Ratio Lower Upper
152 100
150 155.0 124.0 186.0
115 62.0 49.6 74.4

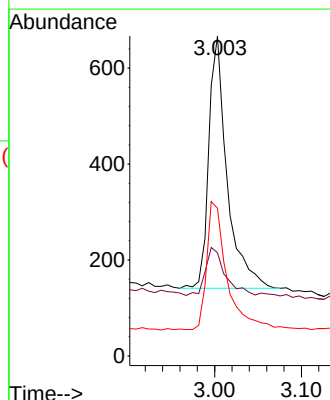
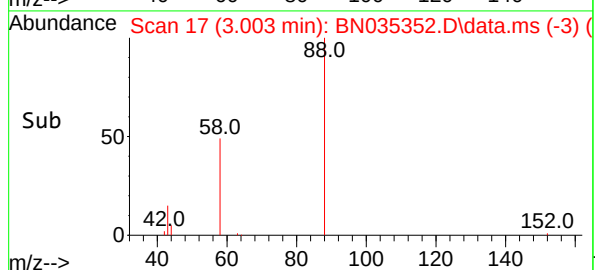
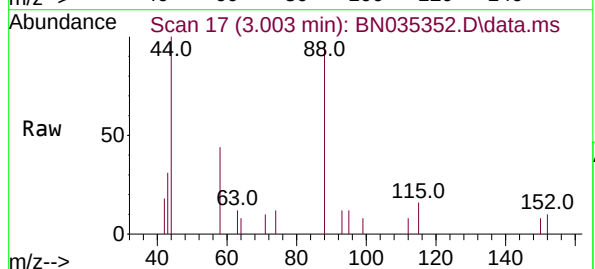
Manual Integrations
APPROVED

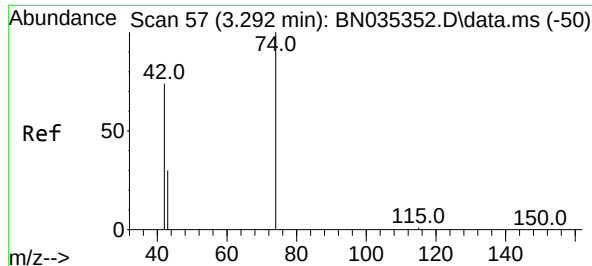
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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





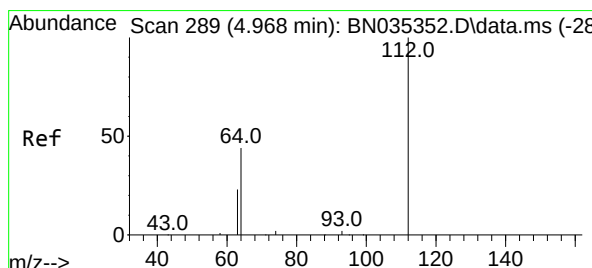
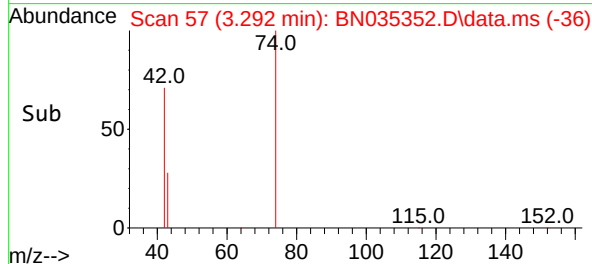
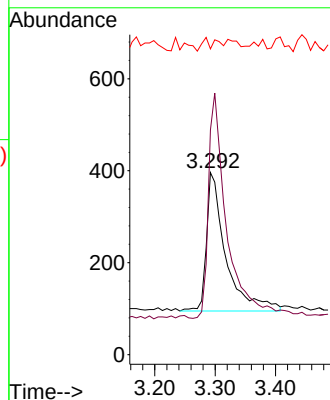
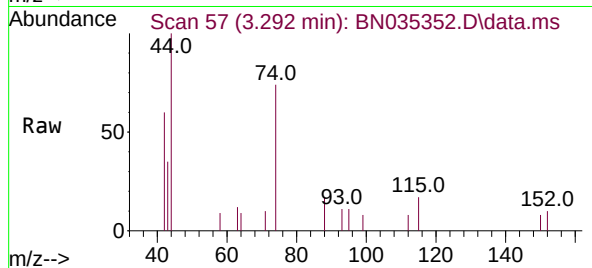
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
74 156.1 124.9 187.3
44 2.8 2.2 3.4

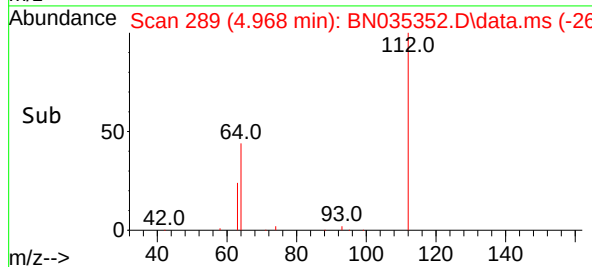
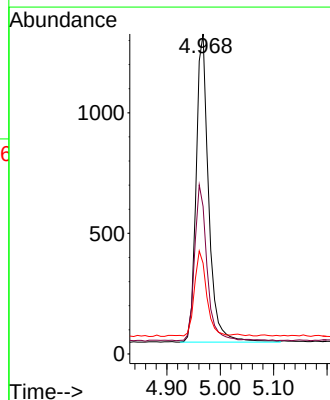
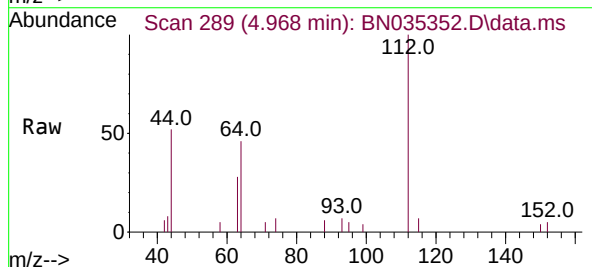
Manual Integrations
APPROVED

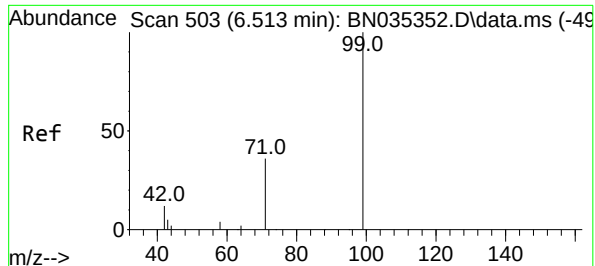
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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





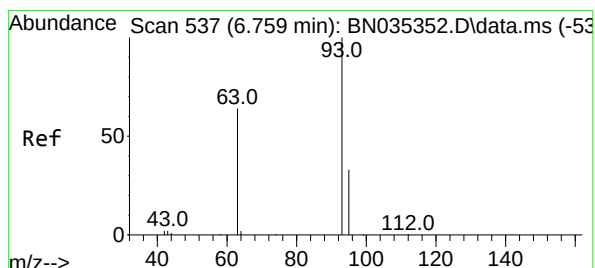
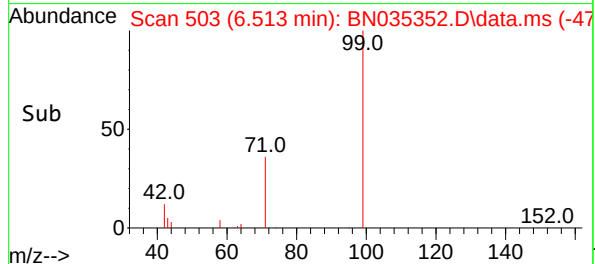
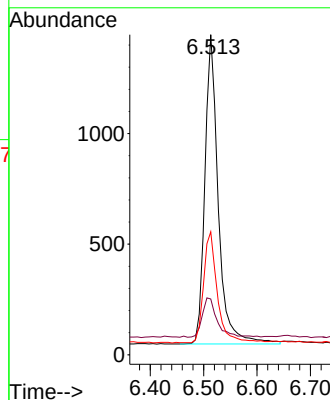
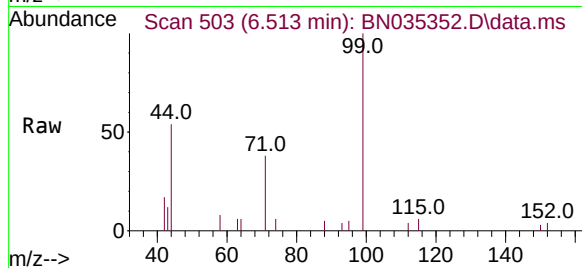
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 244
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 36.6 29.3 43.9

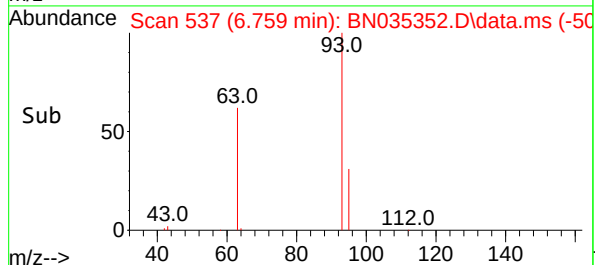
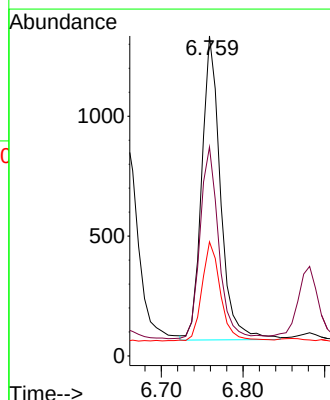
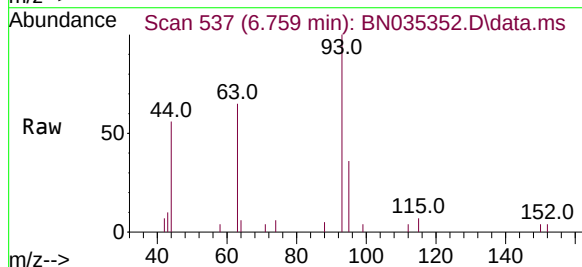
Manual Integrations
APPROVED

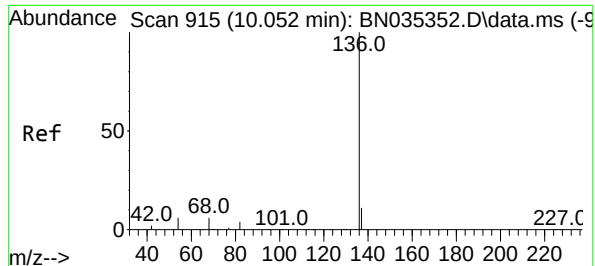
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

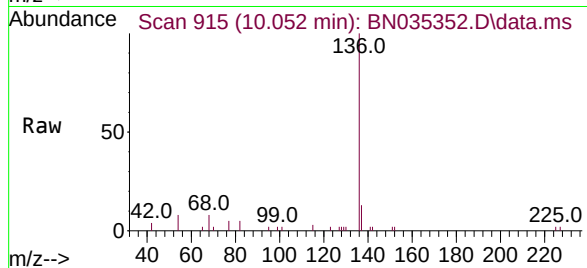
Tgt Ion: 93 Resp: 2032
Ion Ratio Lower Upper
93 100
63 63.0 50.4 75.6
95 32.1 25.7 38.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

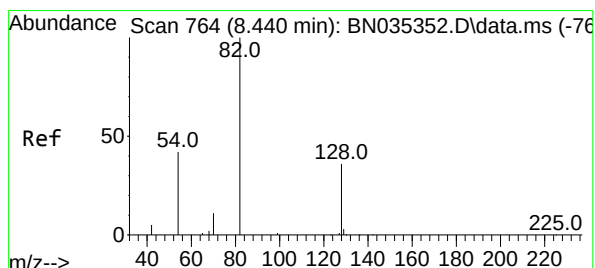
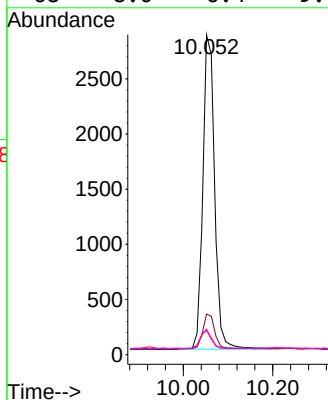
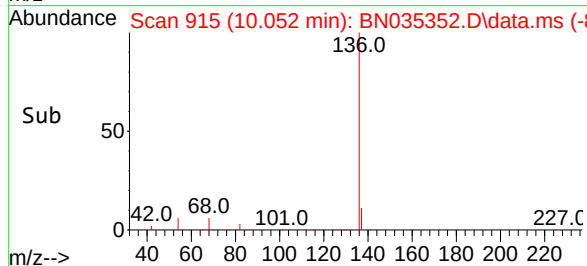
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

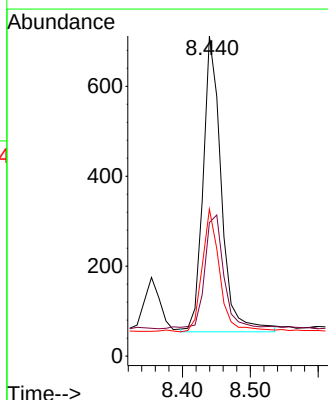
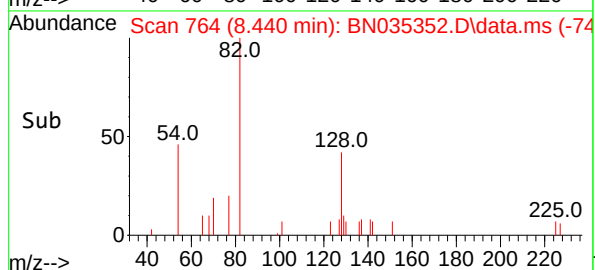
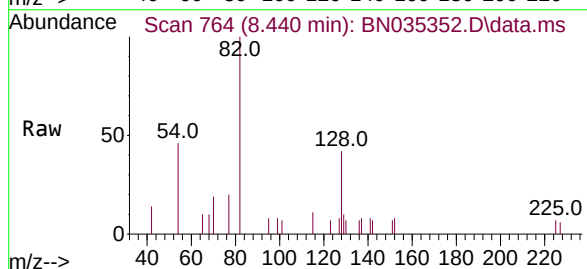
Manual Integrations
APPROVED

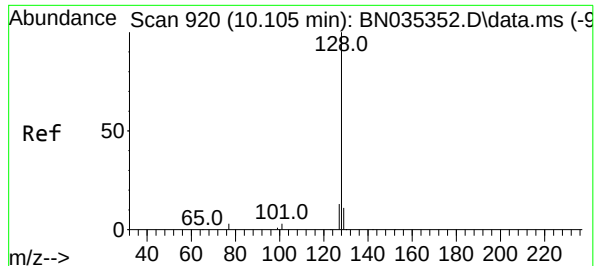
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 91

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

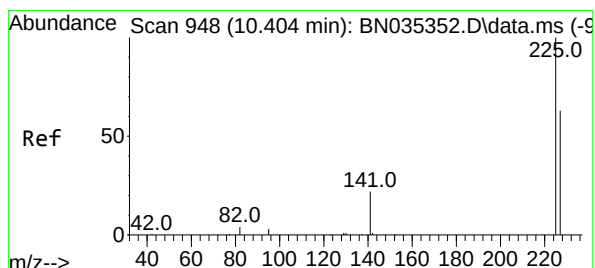
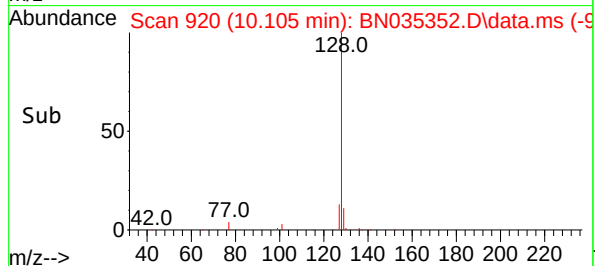
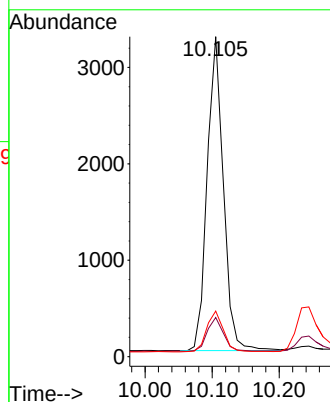
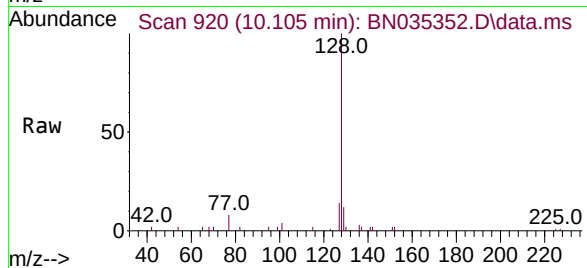
SSTDICCC0.4

Tgt Ion:	128	Resp:	547
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#10

Hexachlorobutadiene

Concen: 0.323 ng

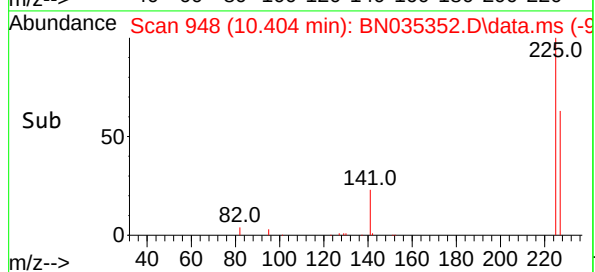
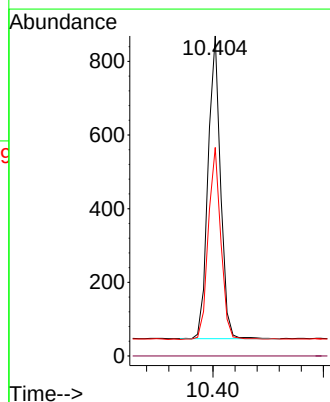
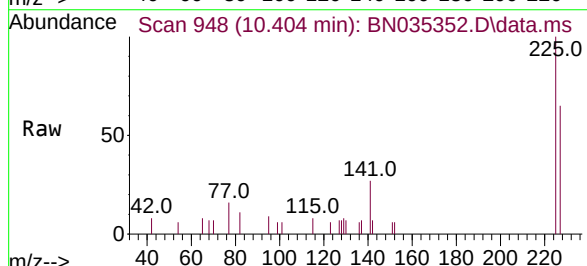
RT: 10.404 min Scan# 948

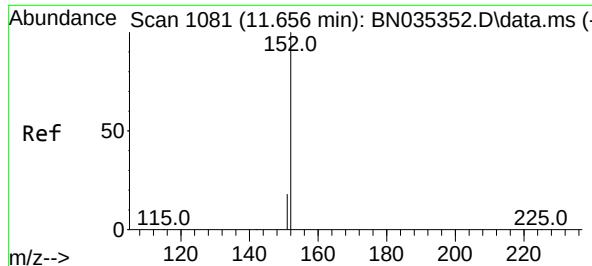
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion:	225	Resp:	1292
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9





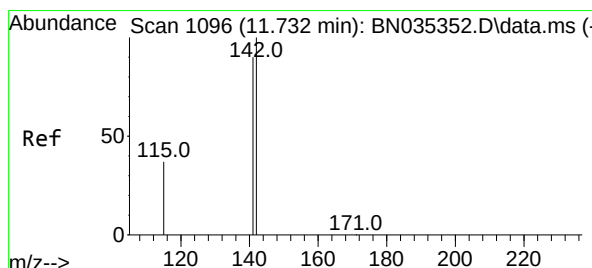
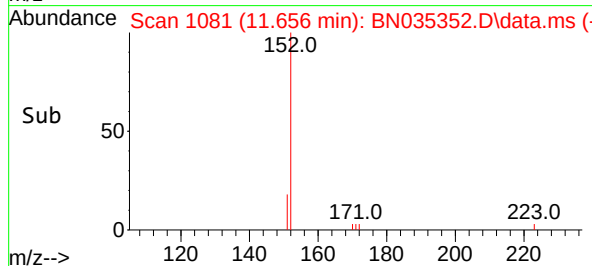
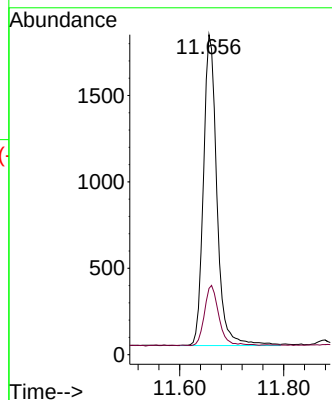
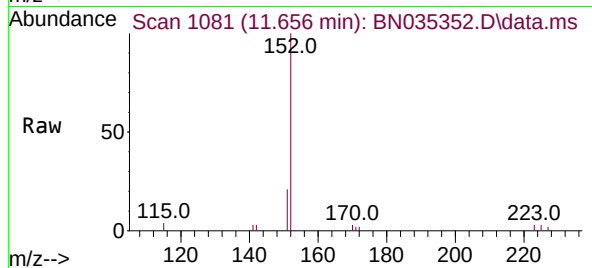
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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

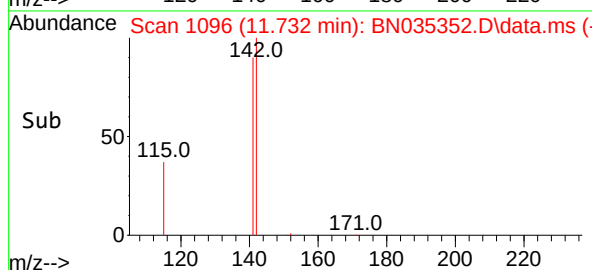
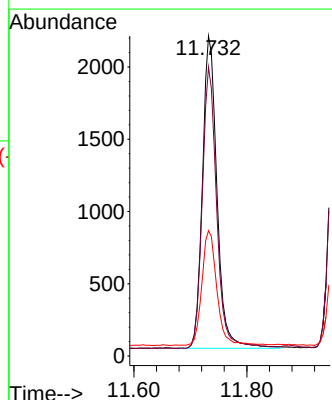
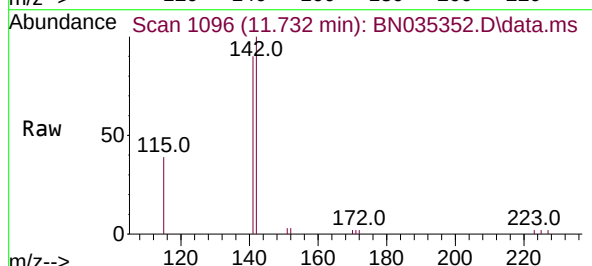
Manual Integrations
APPROVED

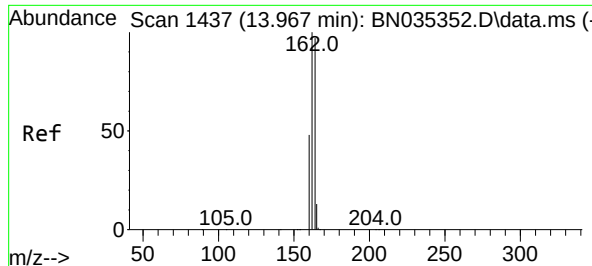
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

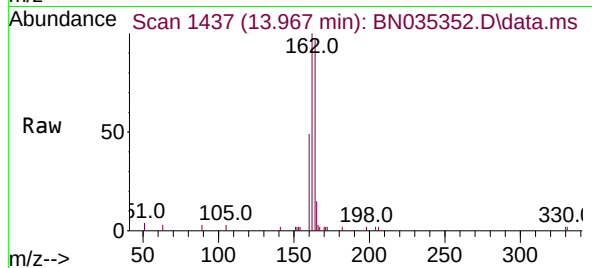
Tgt Ion:142 Resp: 3867
Ion Ratio Lower Upper
142 100
141 90.3 72.2 108.4
115 39.2 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

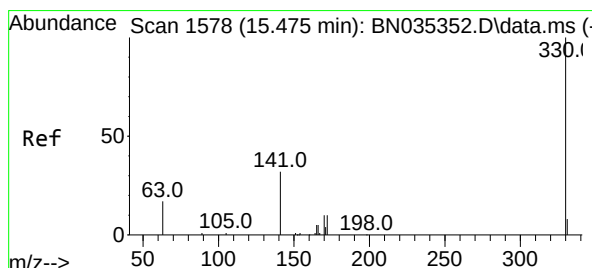
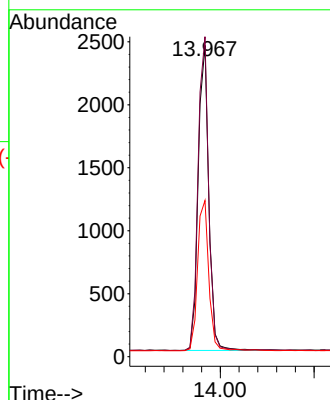
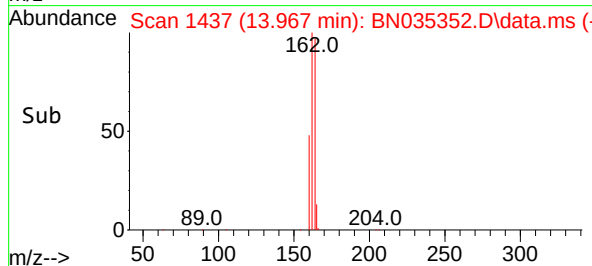
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

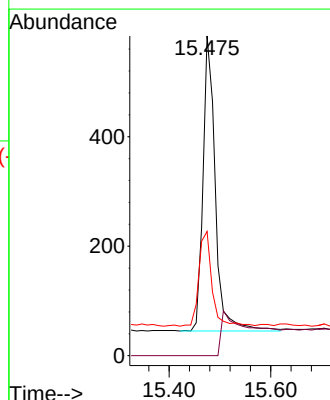
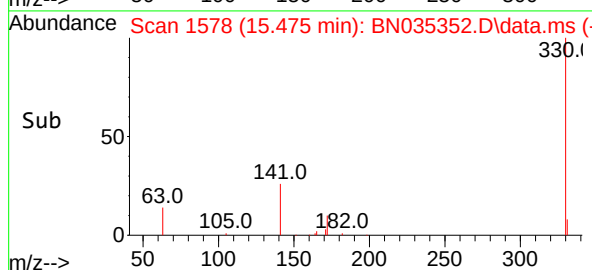
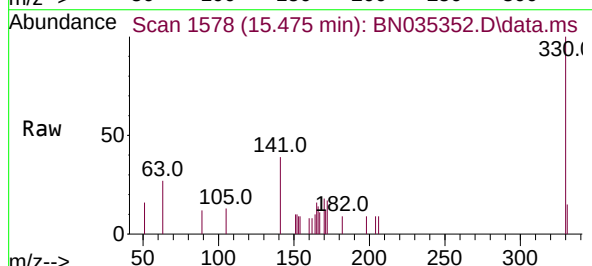
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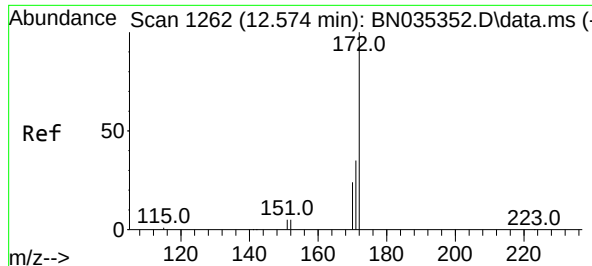
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





#15

2-Fluorobiphenyl

Concen: 0.372 ng

RT: 12.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

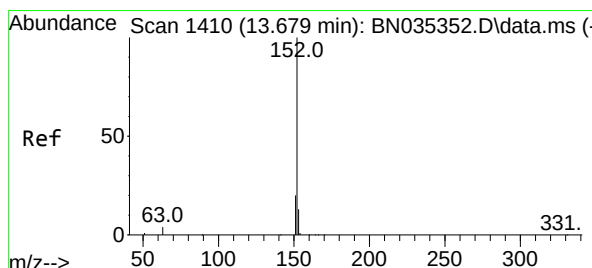
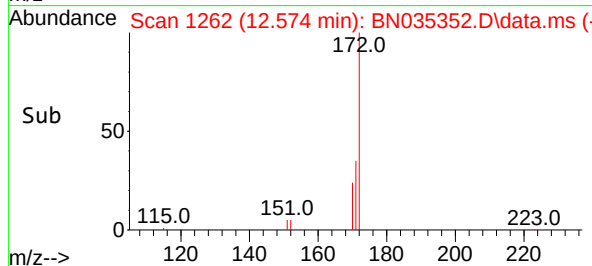
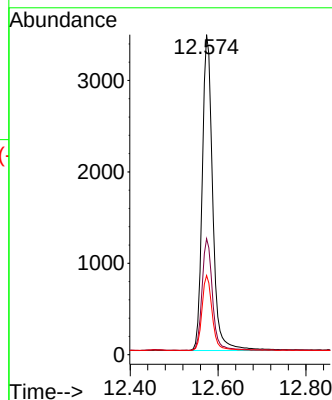
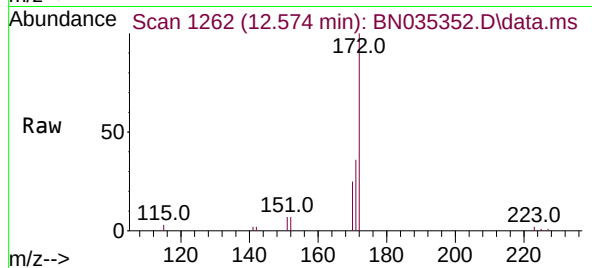
Tgt Ion:	172	Resp:	573
Ion Ratio	Lower	Upper	
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.373 ng

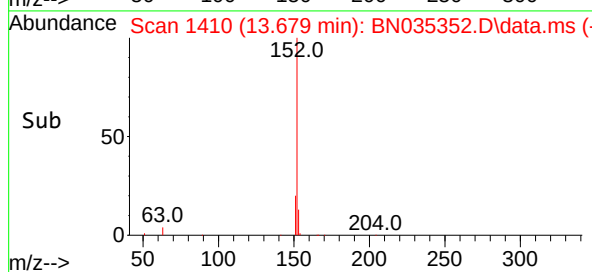
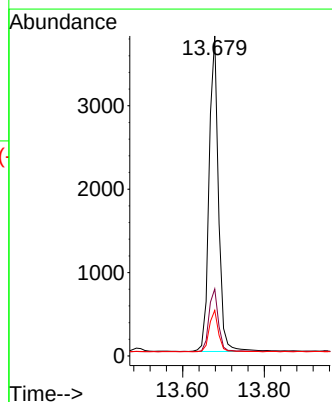
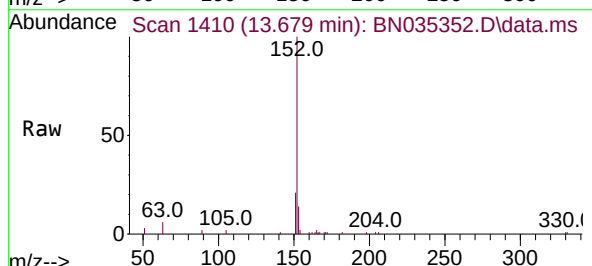
RT: 13.679 min Scan# 1410

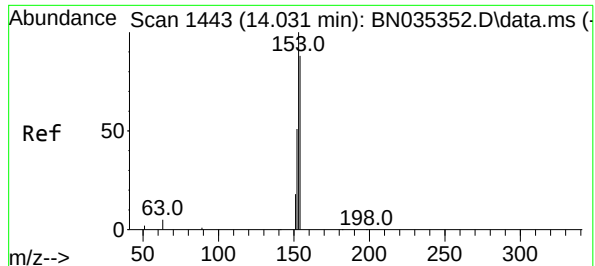
Delta R.T. 0.000 min

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





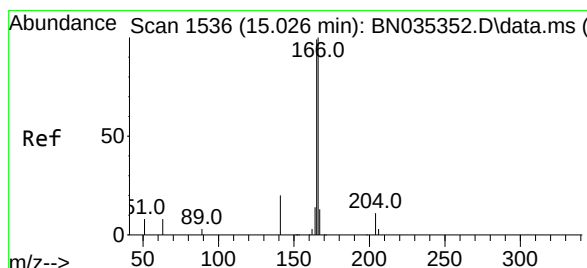
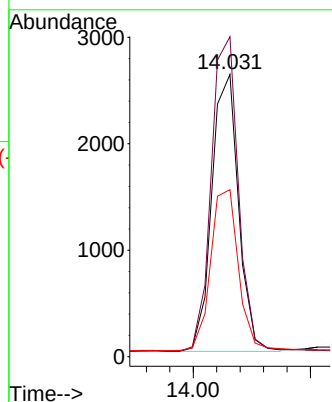
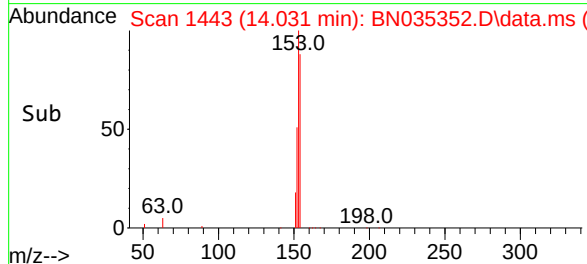
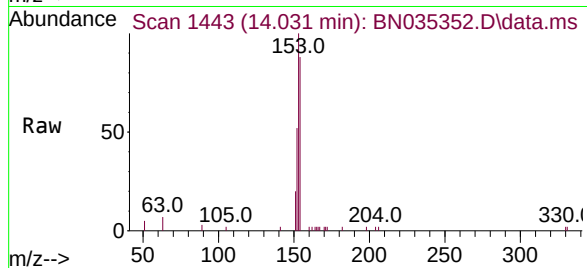
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

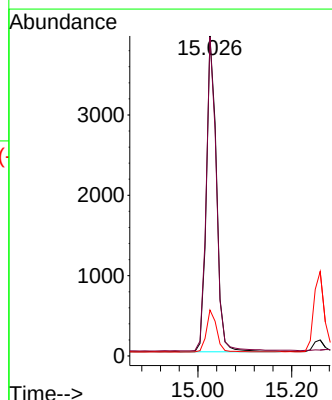
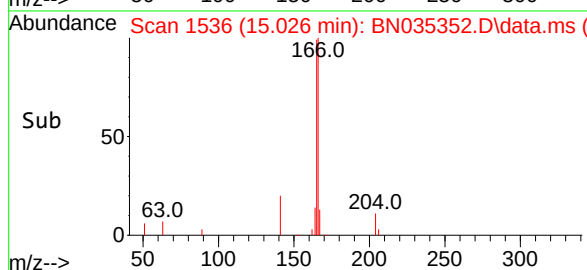
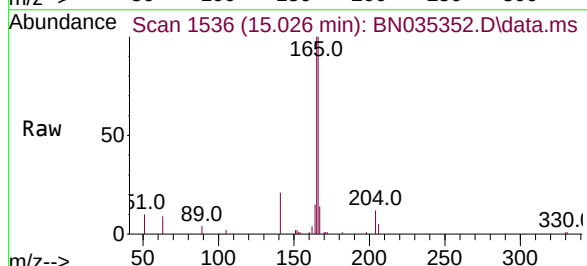
Manual Integrations
APPROVED

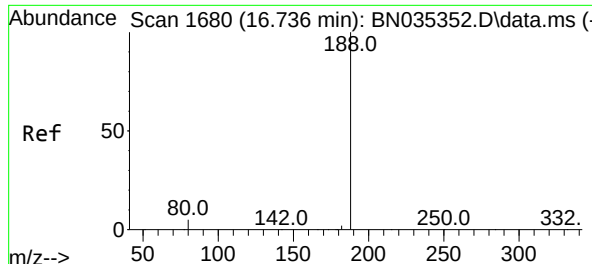
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

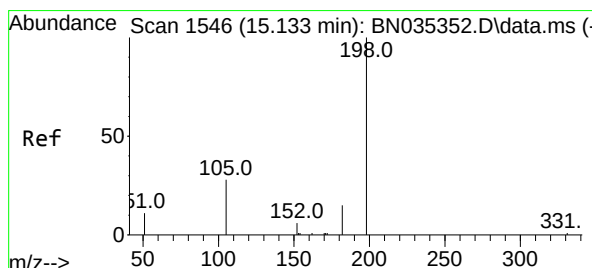
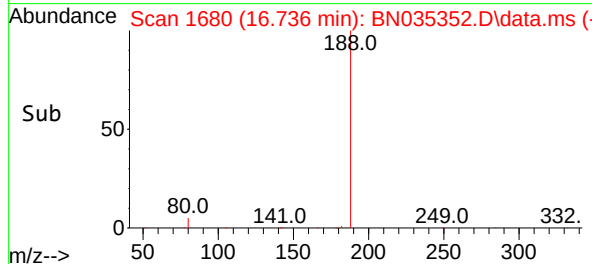
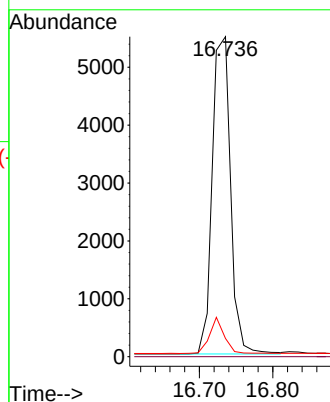
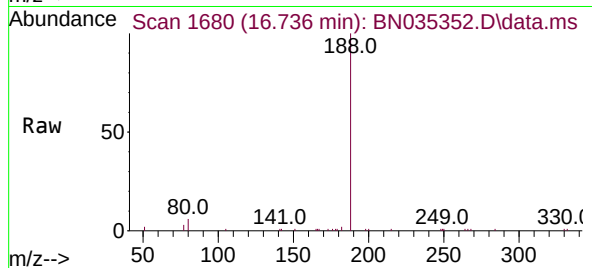
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

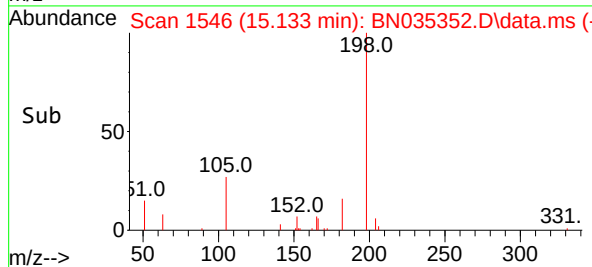
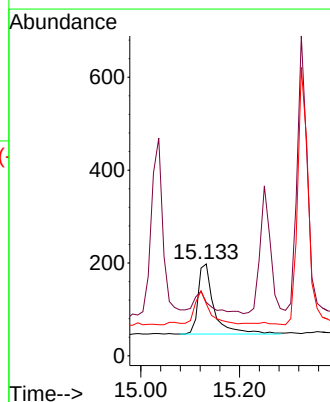
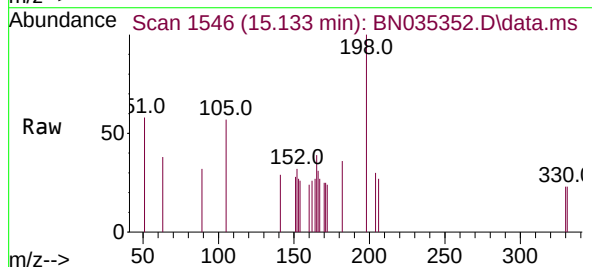
RT: 15.133 min Scan# 1546

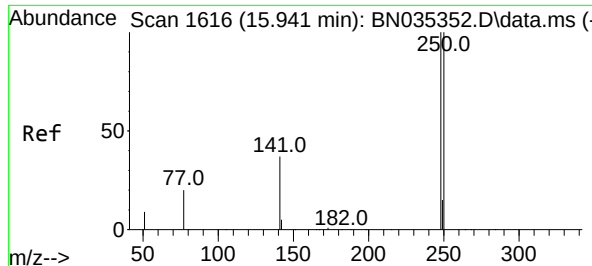
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9





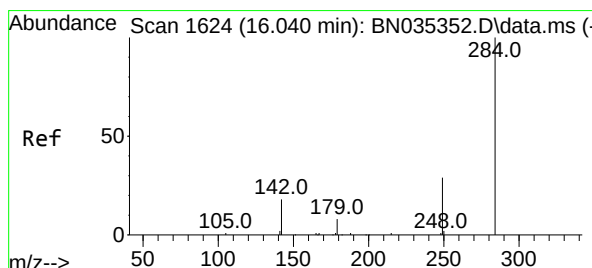
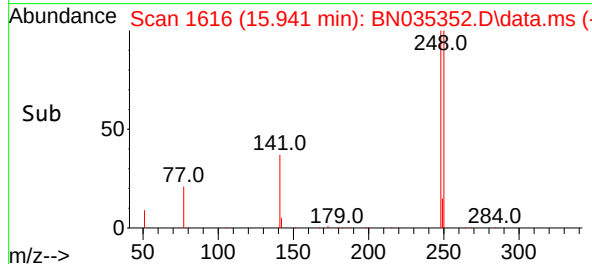
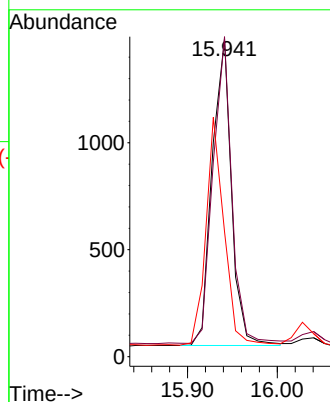
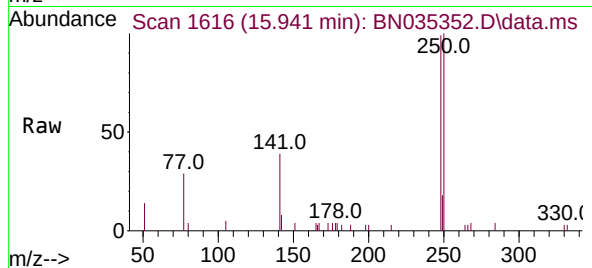
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2140
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 39.4 31.5 47.3

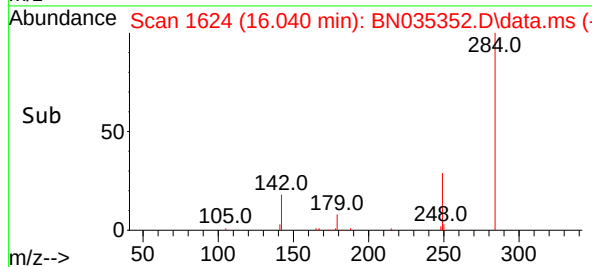
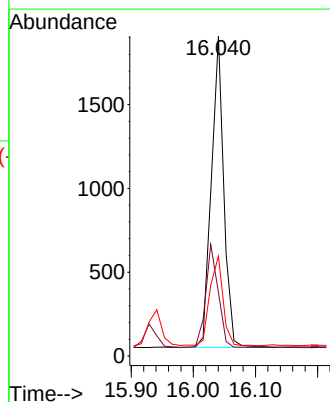
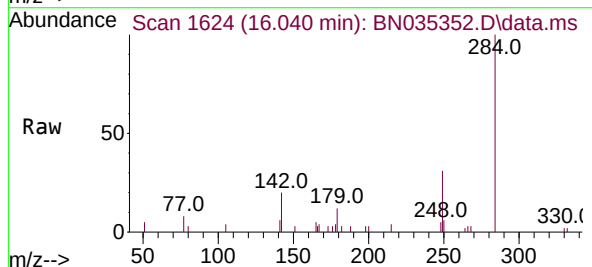
Manual Integrations
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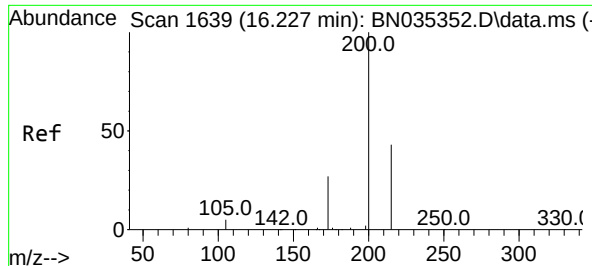
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





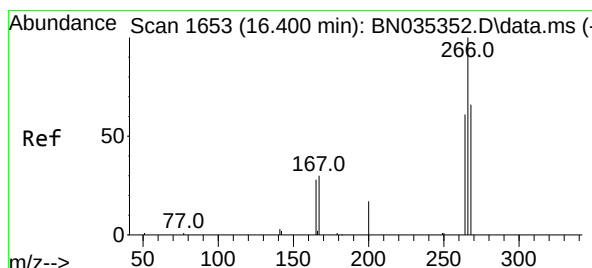
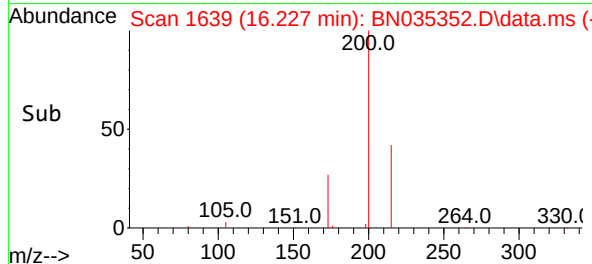
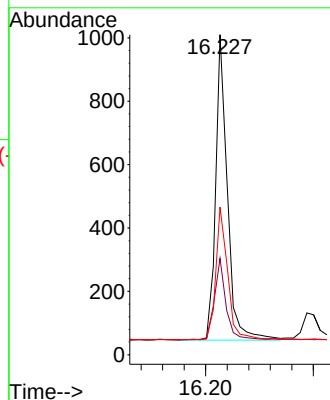
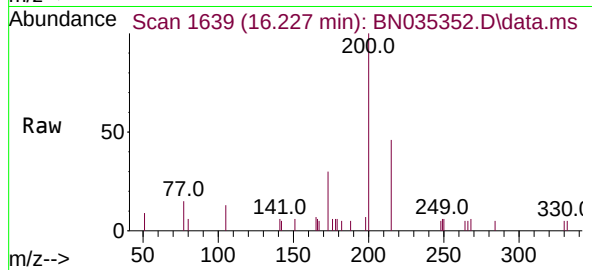
#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 146
Ion Ratio Lower Upper
200 100
173 30.1 24.1 36.1
215 46.1 36.9 55.3

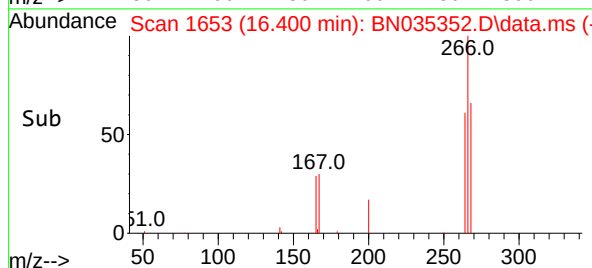
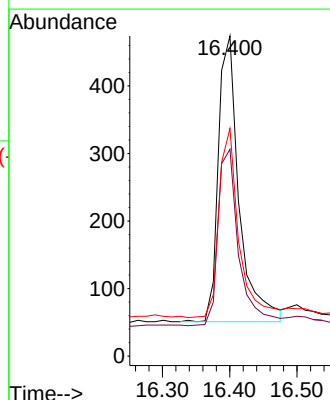
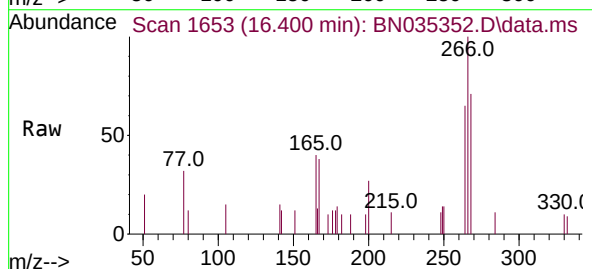
Manual Integrations
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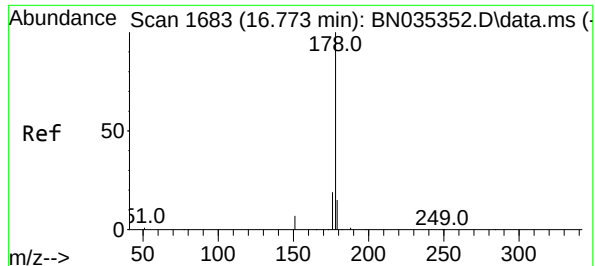
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





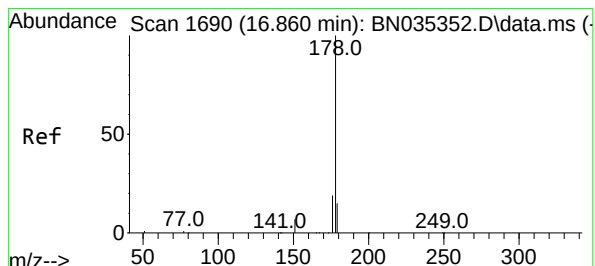
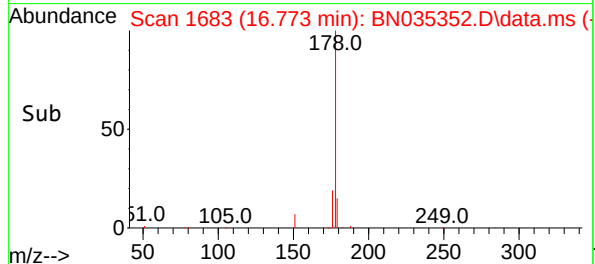
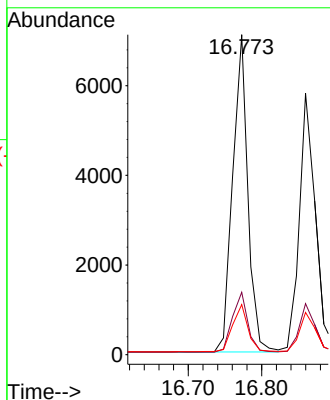
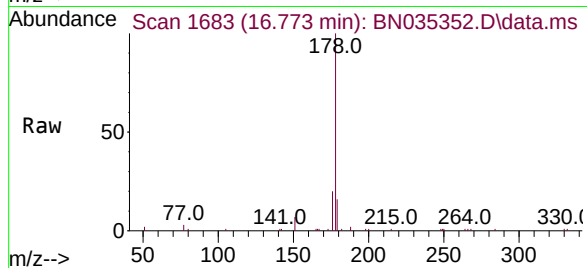
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 1012
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5

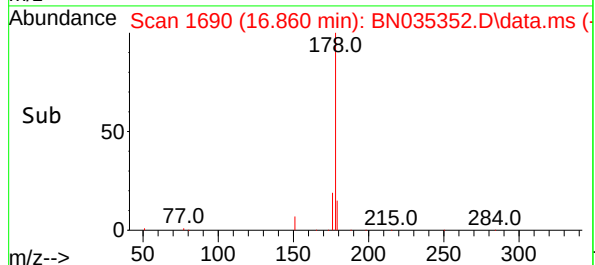
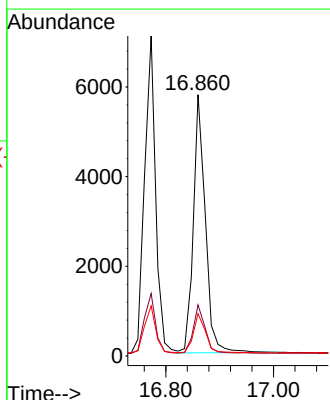
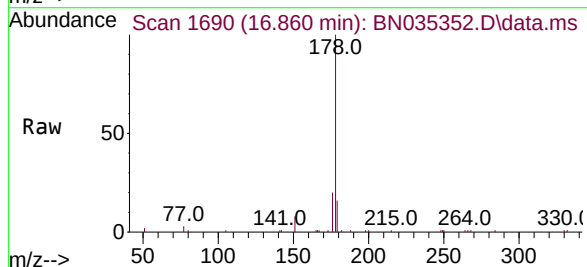
Manual Integrations
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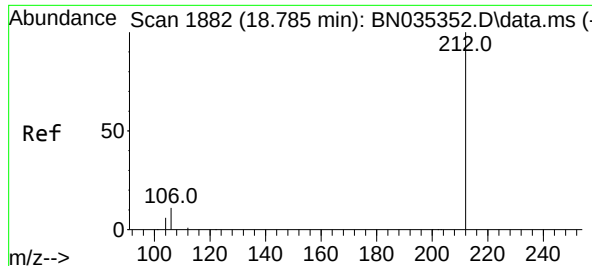
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

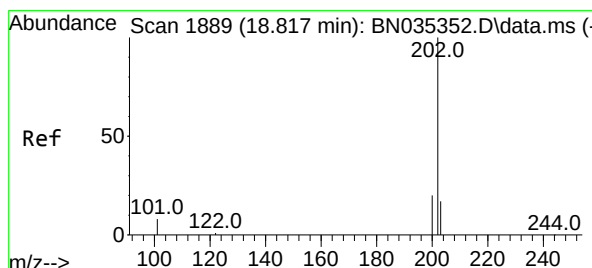
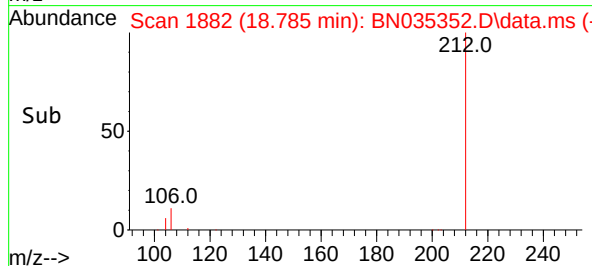
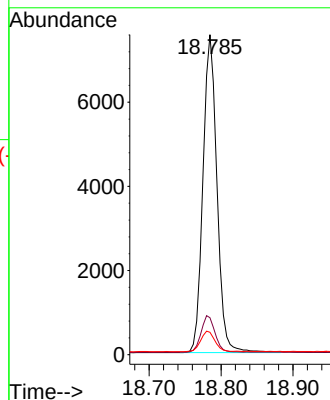
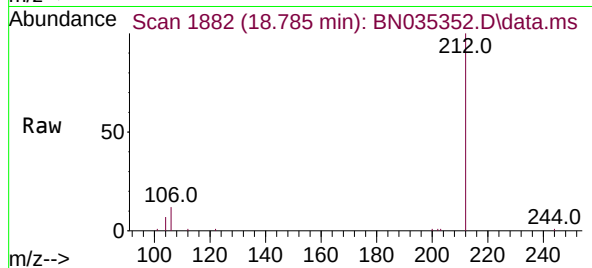
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	212	Resp:	1022
Ion Ratio	Lower	Upper	
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

Manual Integrations
APPROVED

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



#28

Fluoranthene

Concen: 0.391 ng

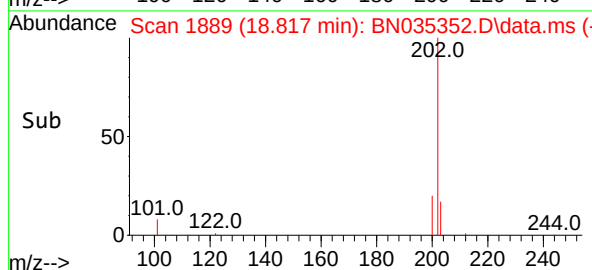
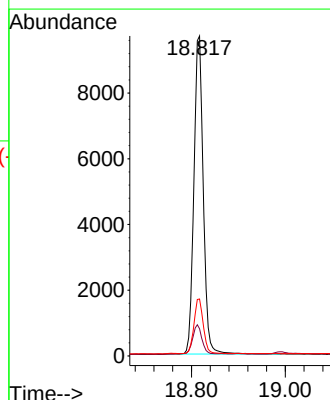
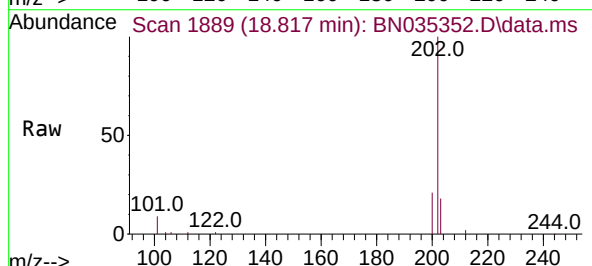
RT: 18.817 min Scan# 1889

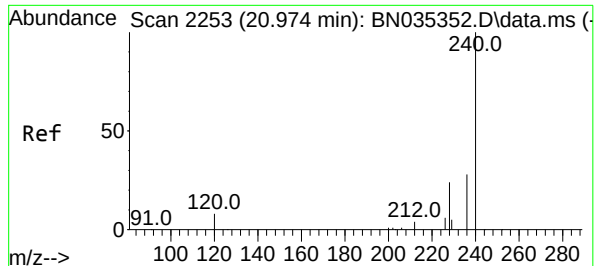
Delta R.T. 0.000 min

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

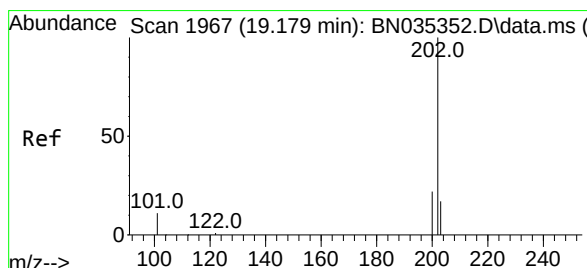
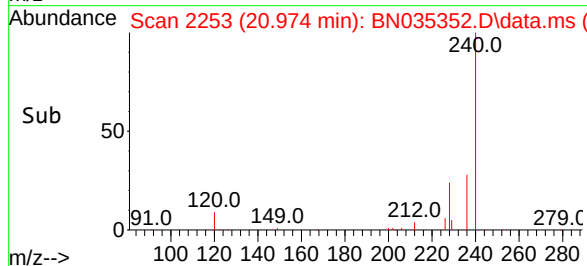
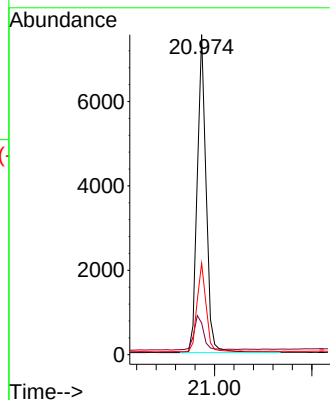
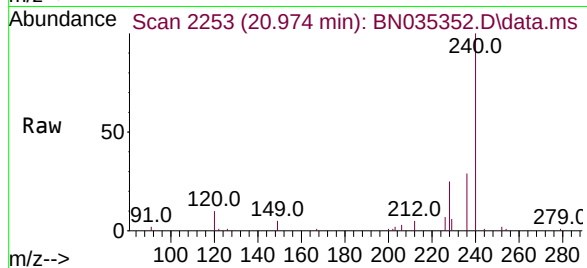
ClientSampleId :

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

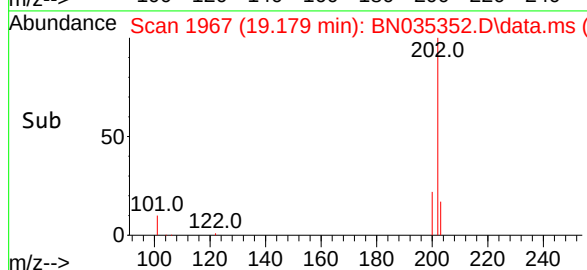
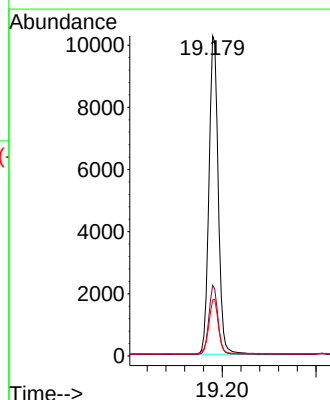
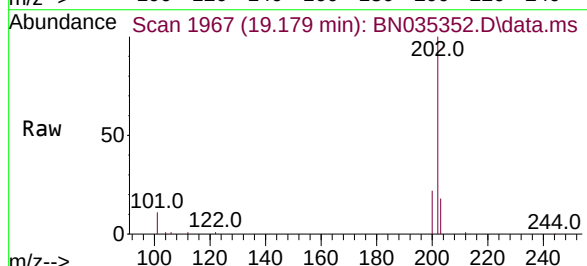
RT: 19.179 min Scan# 1967

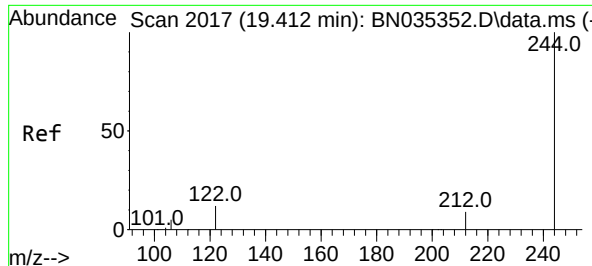
Delta R.T. 0.000 min

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

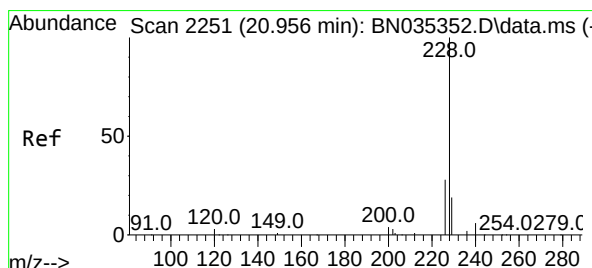
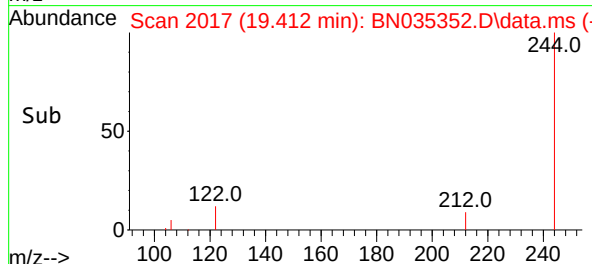
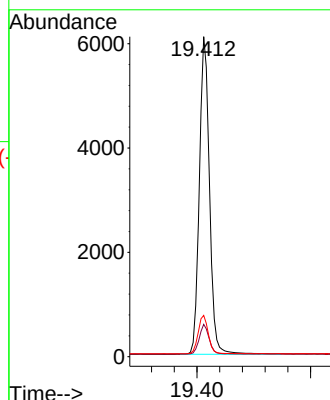
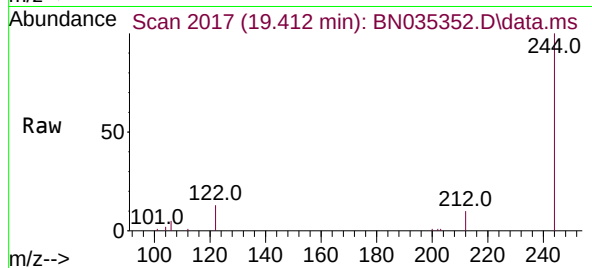
ClientSampleId :

SSTDICCC0.4

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

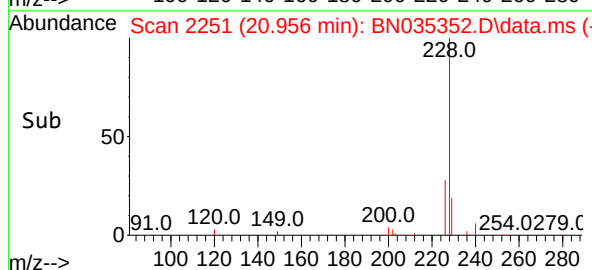
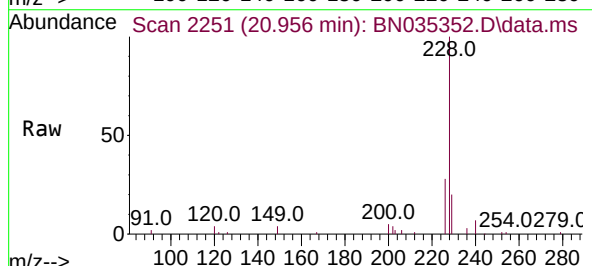
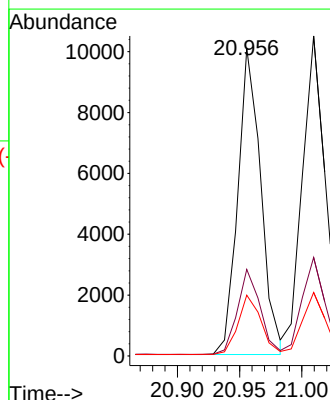
Manual Integrations
APPROVED

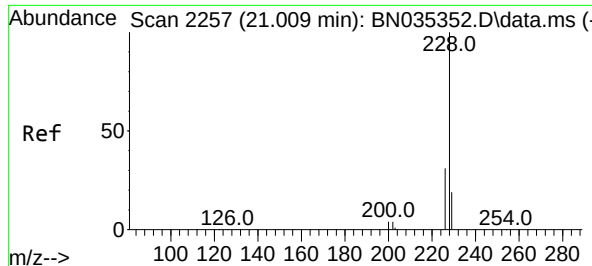
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





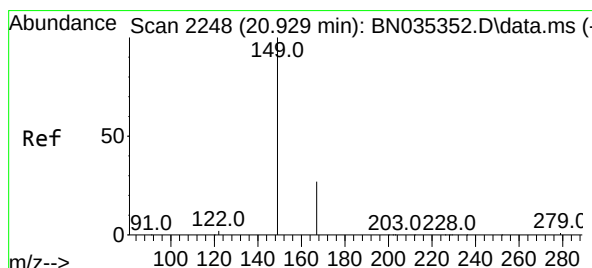
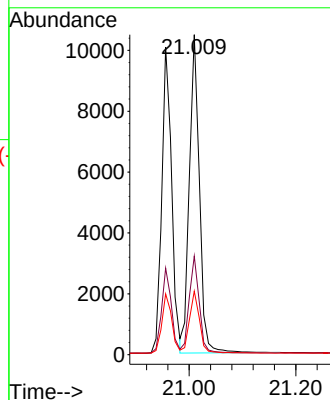
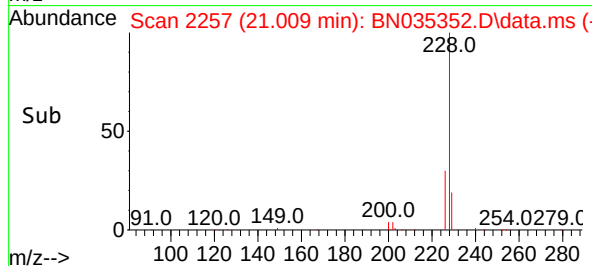
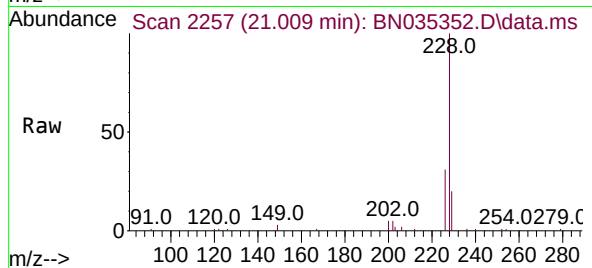
#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2100
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

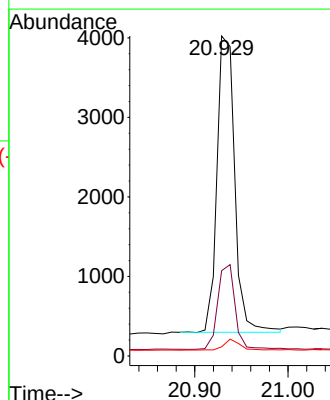
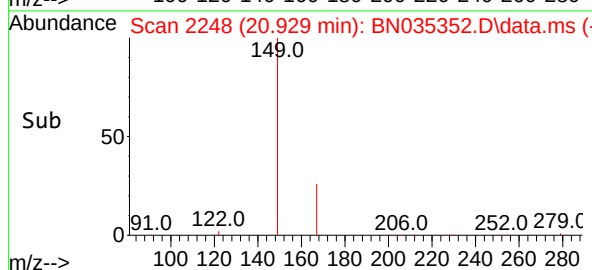
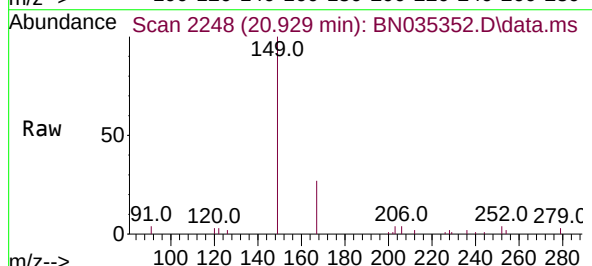
Manual Integrations
APPROVED

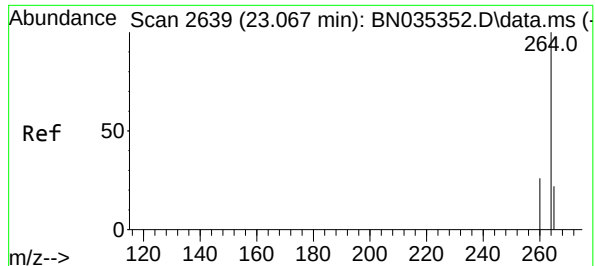
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

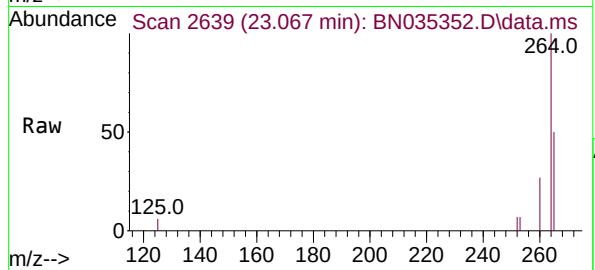
Tgt Ion:149 Resp: 4912
Ion Ratio Lower Upper
149 100
167 27.8 22.2 33.4
279 3.4 2.7 4.1





#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

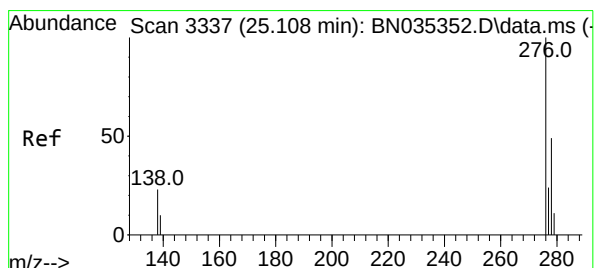
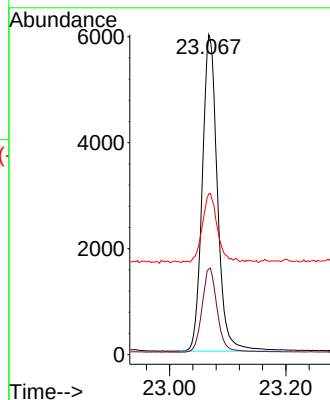
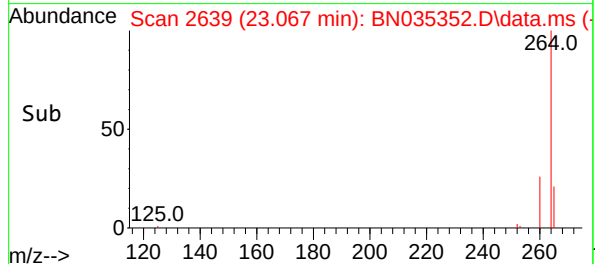
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

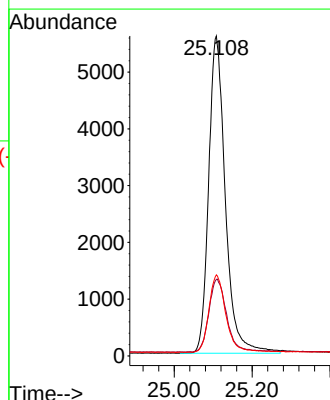
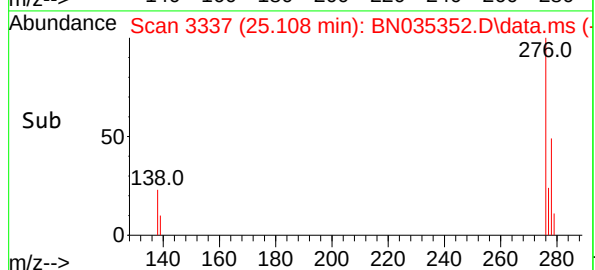
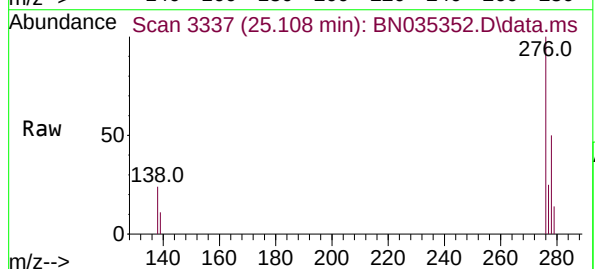
Manual Integrations
APPROVED

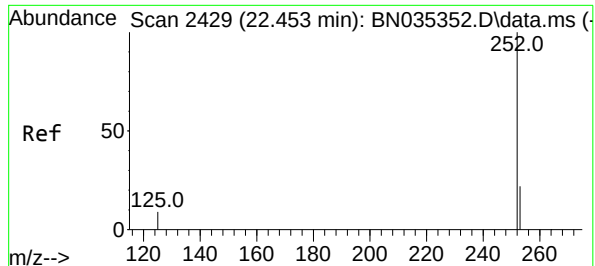
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

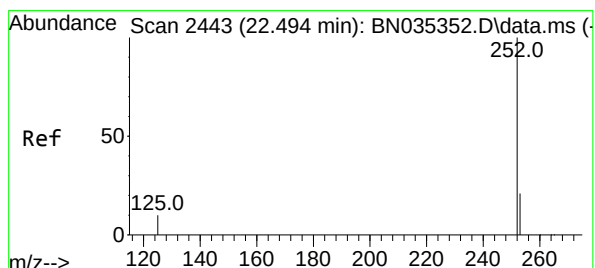
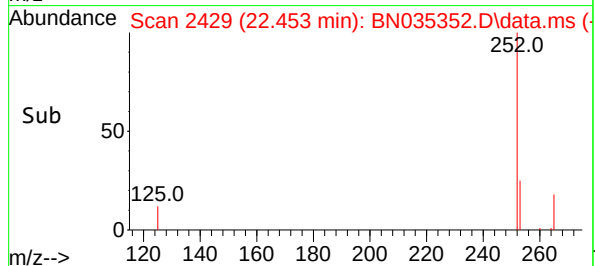
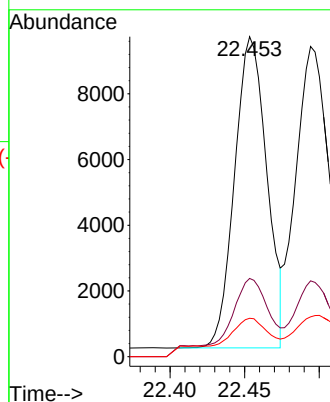
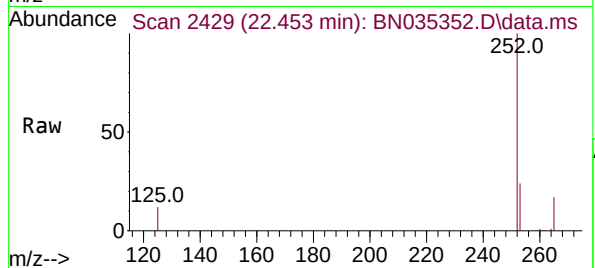
Tgt Ion:252	Resp:	1423
Ion Ratio	Lower	Upper
252	100	
253	24.5	19.6 29.4
125	12.0	9.6 14.4

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

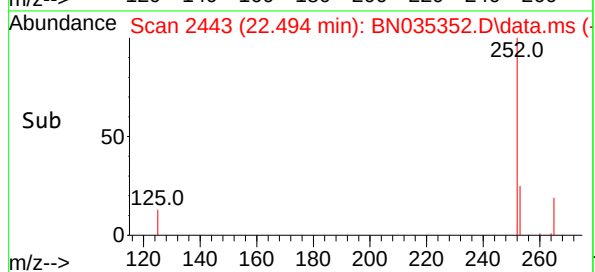
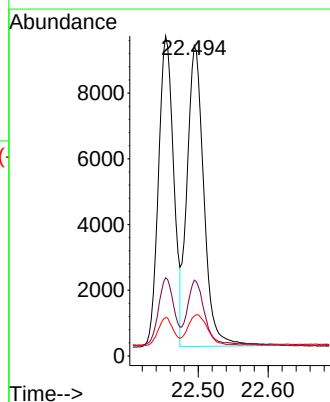
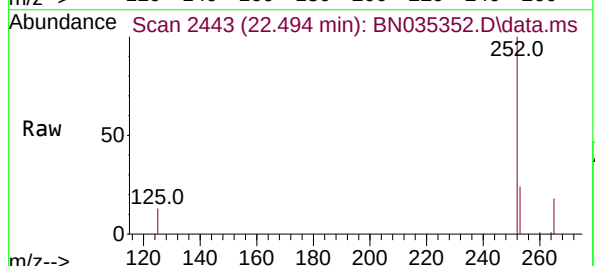
RT: 22.494 min Scan# 2443

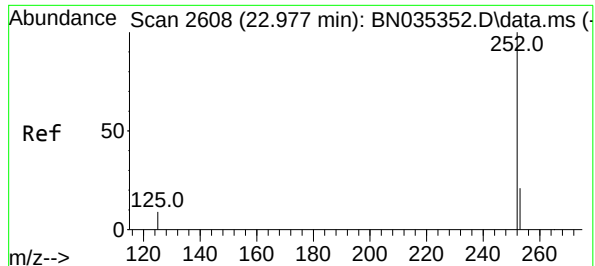
Delta R.T. 0.000 min

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 :

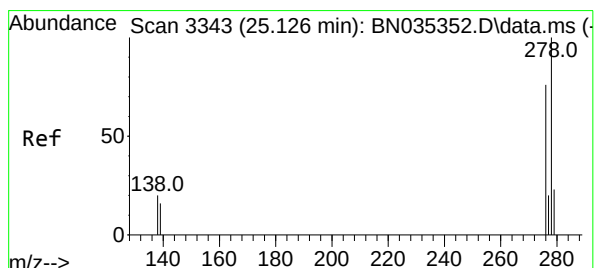
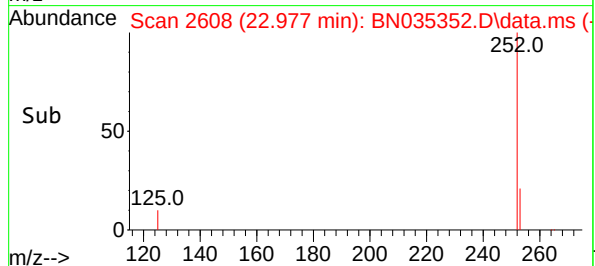
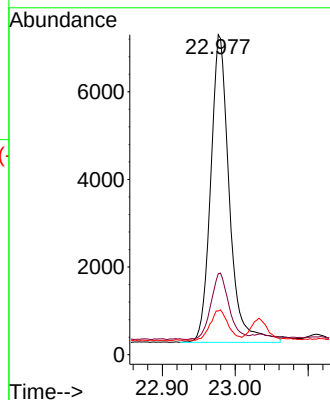
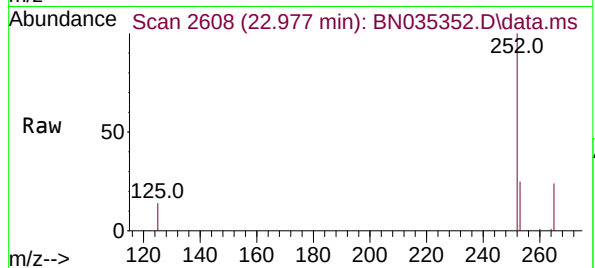
SSTDICCC0.4

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

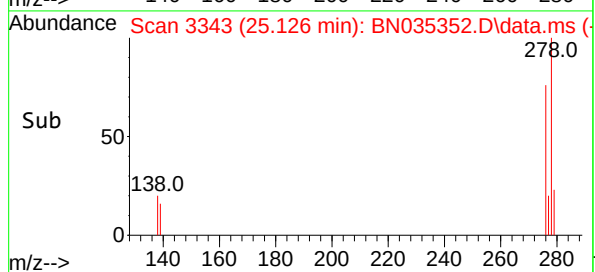
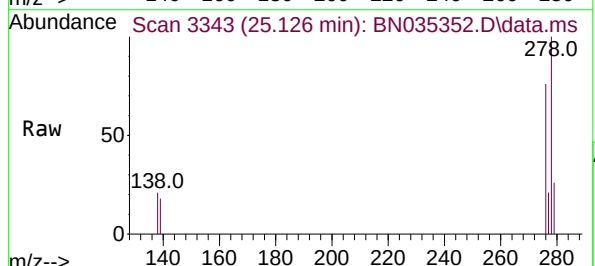
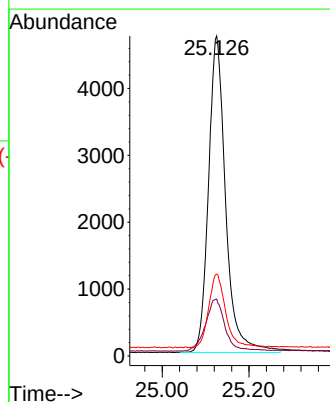
RT: 25.126 min Scan# 3343

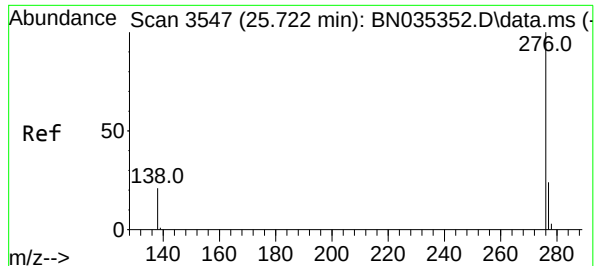
Delta R.T. 0.000 min

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# 30

Delta R.T. 0.000 min

Lab File: BN035352.D

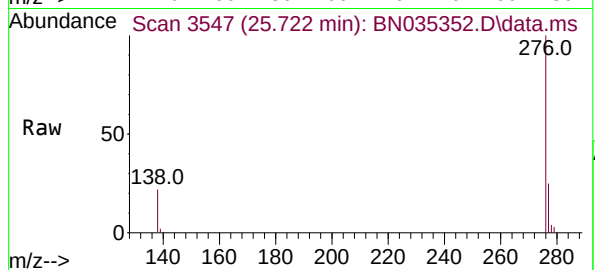
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

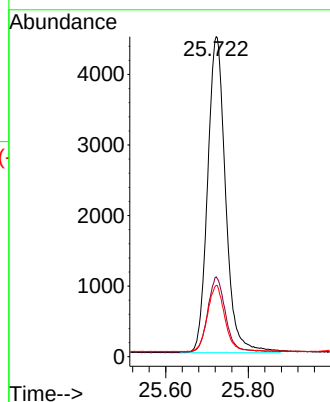
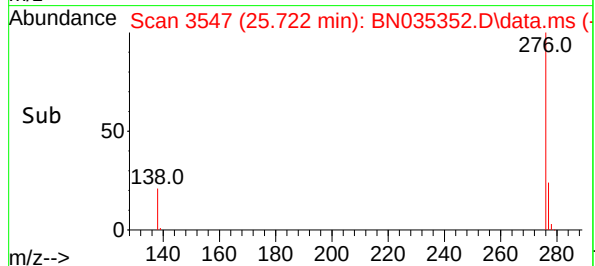
138 22.3 17.8 26.8

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

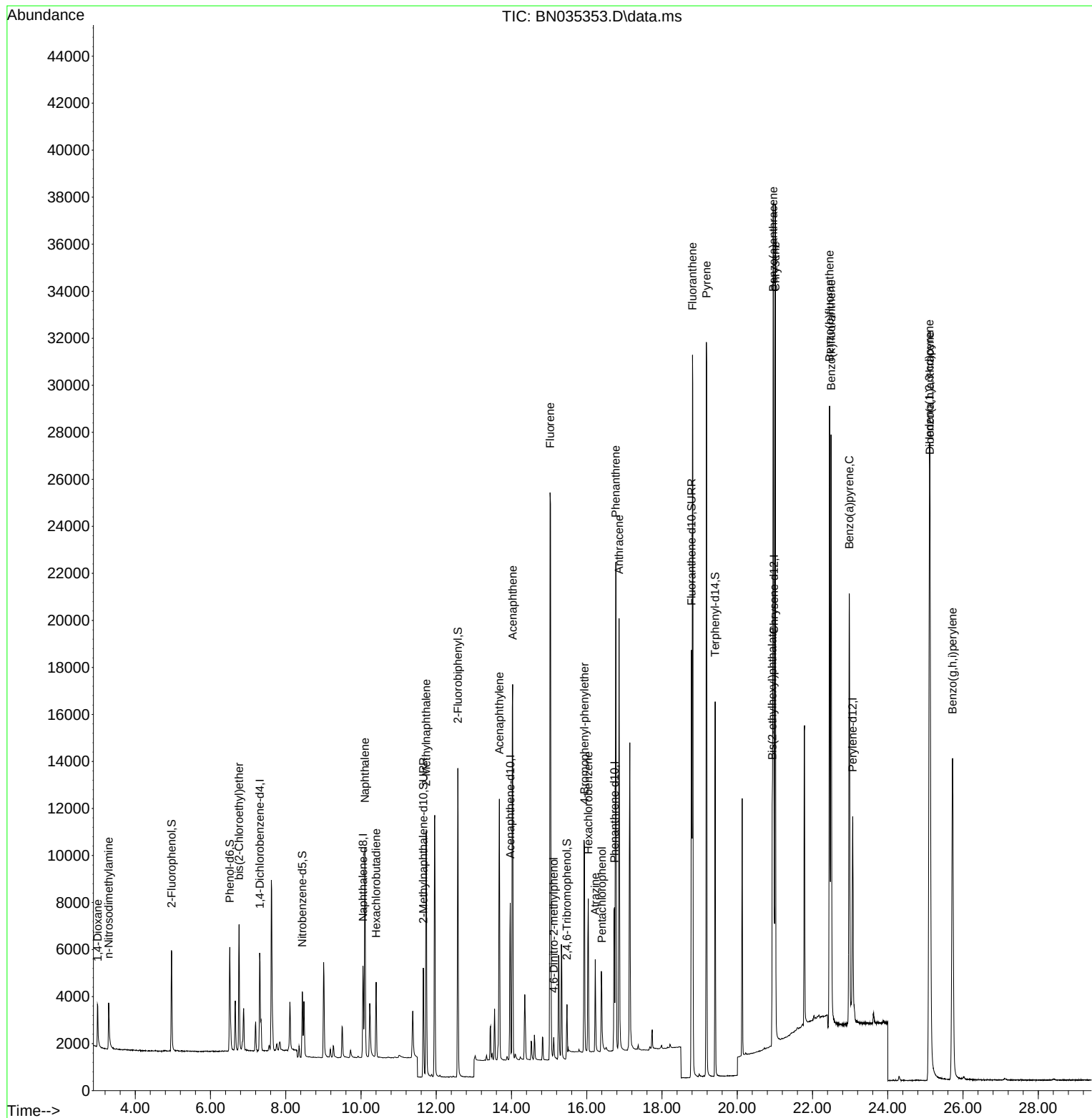
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng	0.00
29) Chrysene-d12	20.974	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						
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

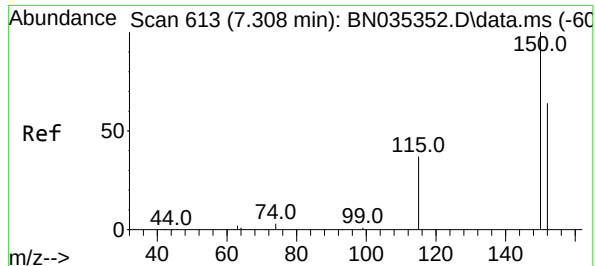
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

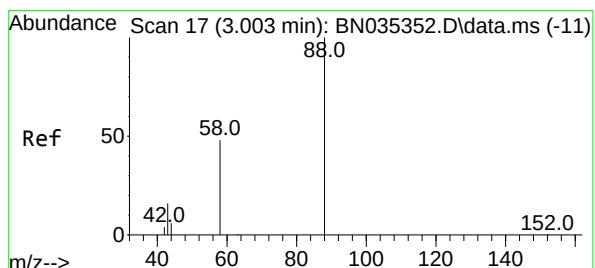
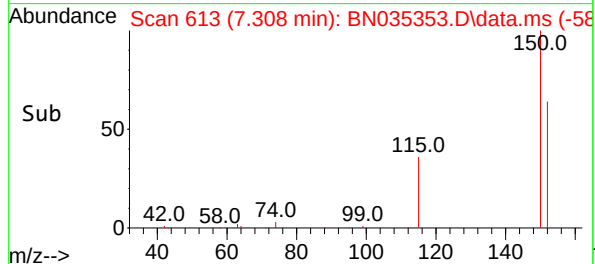
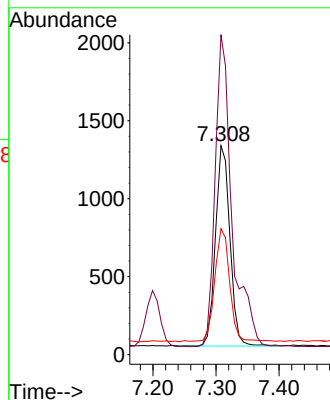
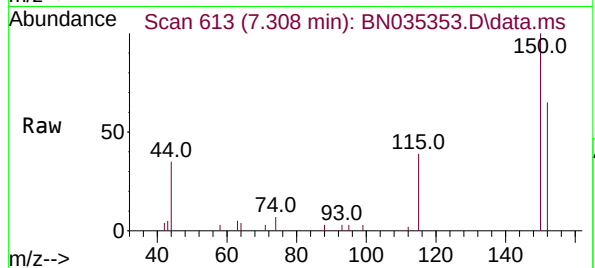




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

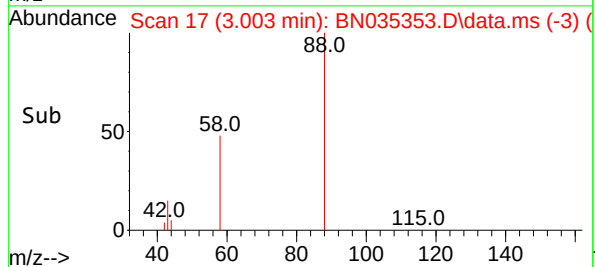
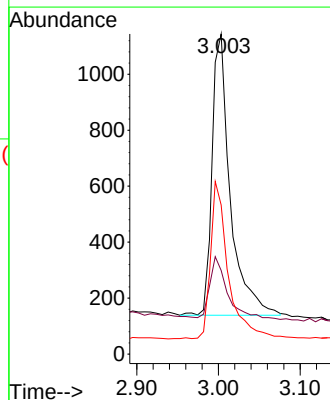
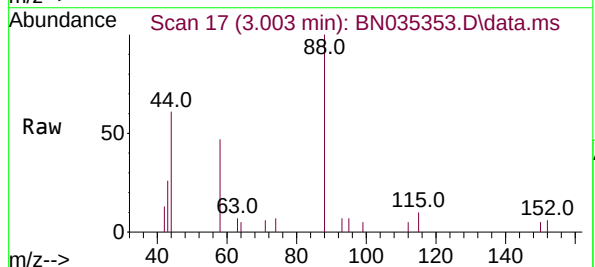
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

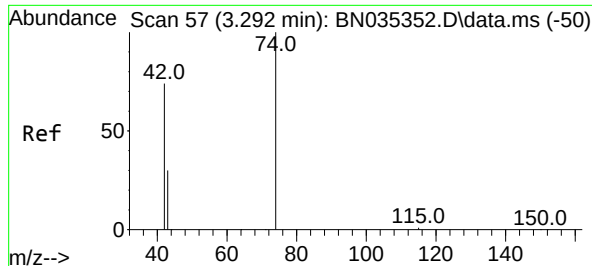
Tgt Ion:152 Resp: 2047
Ion Ratio Lower Upper
152 100
150 153.1 124.0 186.0
115 60.3 49.6 74.4



#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

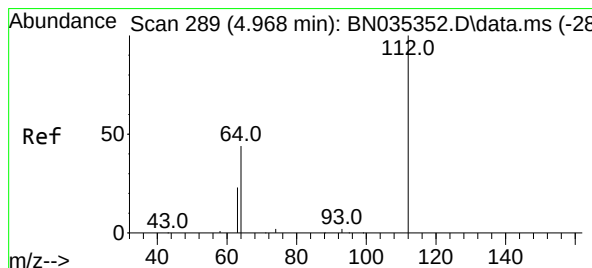
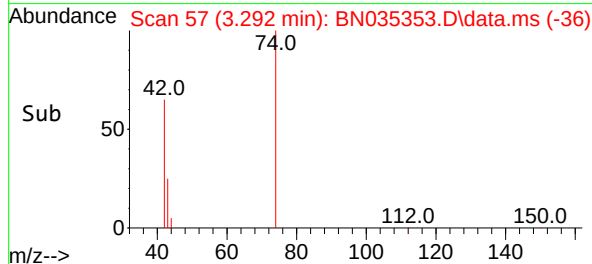
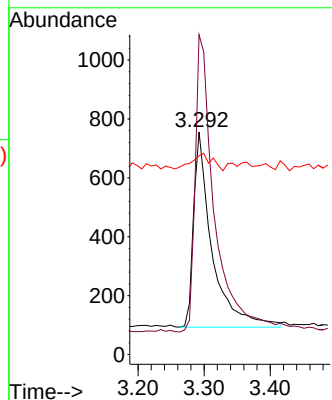
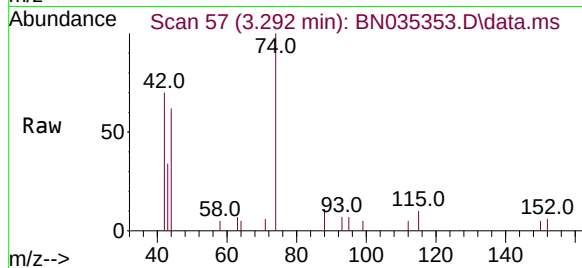




#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

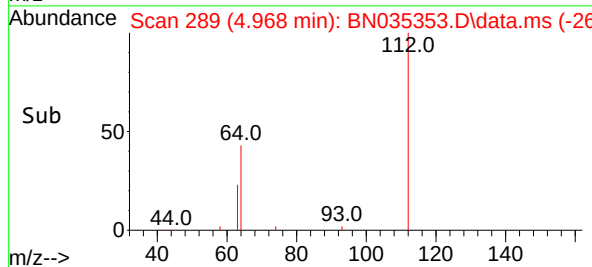
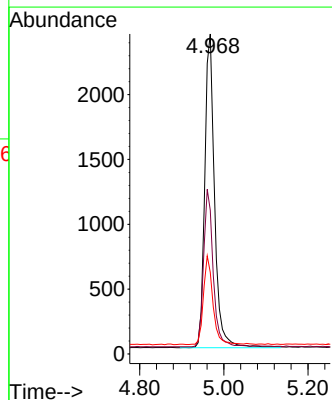
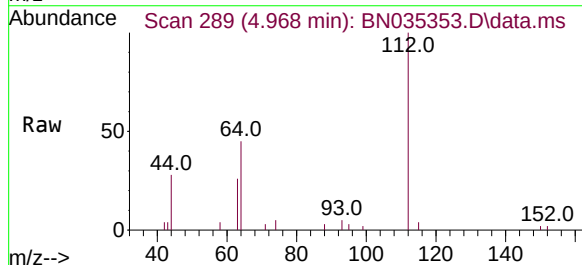
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

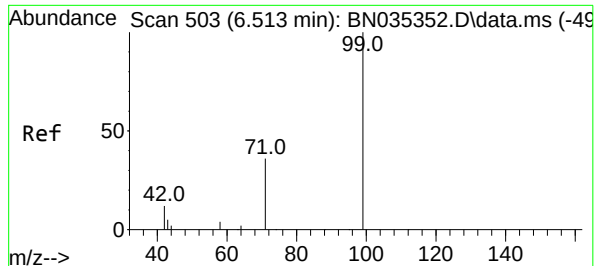
Tgt Ion: 42 Resp: 1291
Ion Ratio Lower Upper
42 100
74 158.7 124.9 187.3
44 9.8 2.2 3.4#



#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

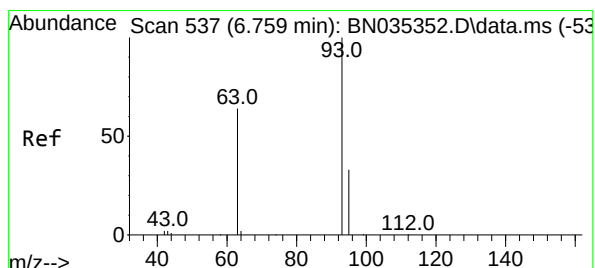
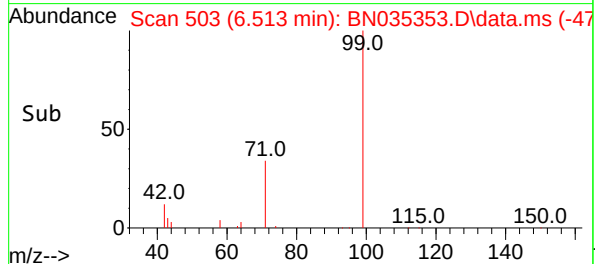
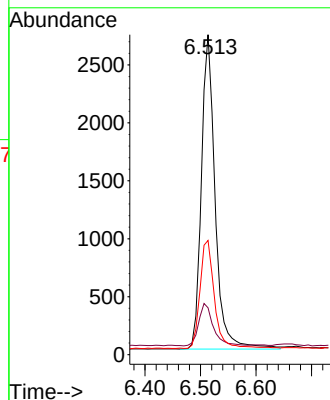
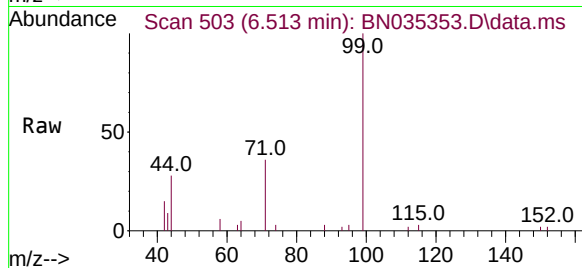




#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

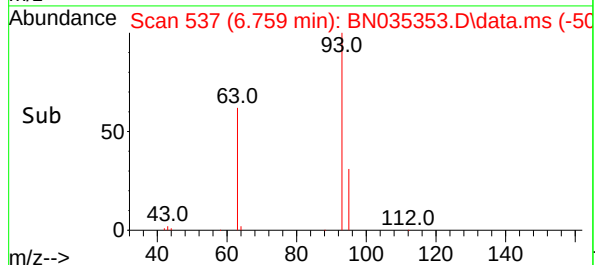
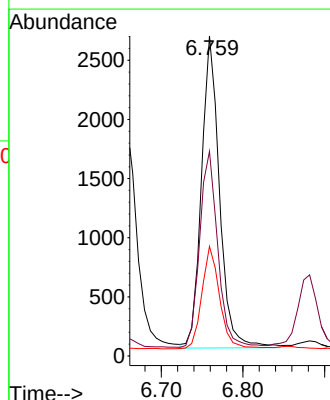
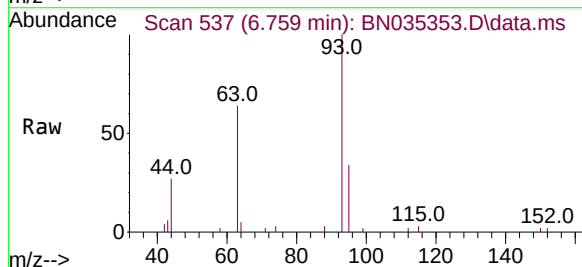
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

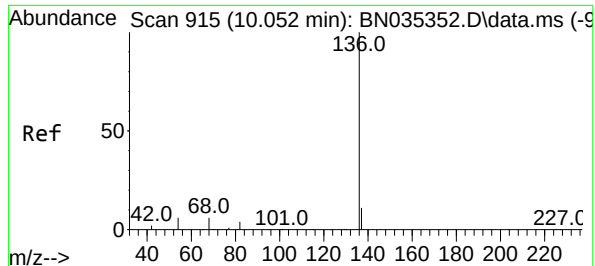
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9



#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

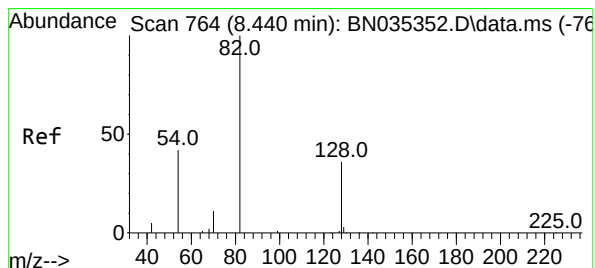
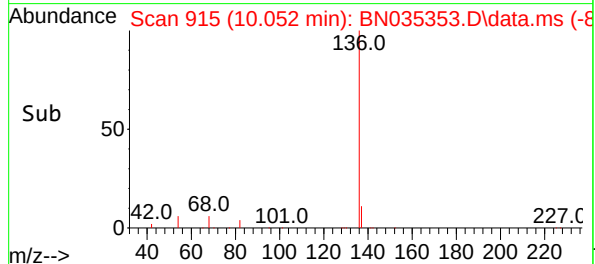
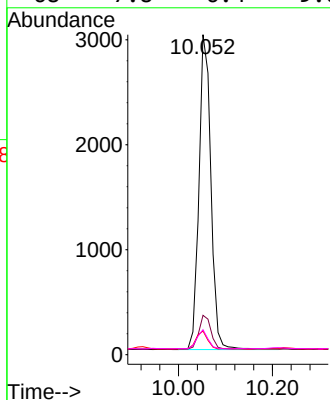
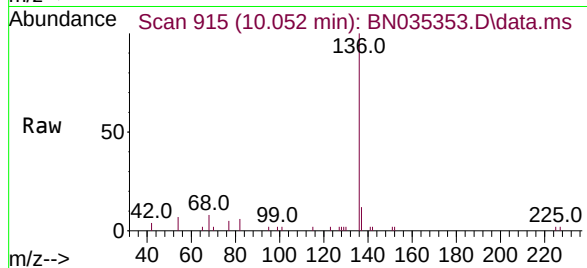




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

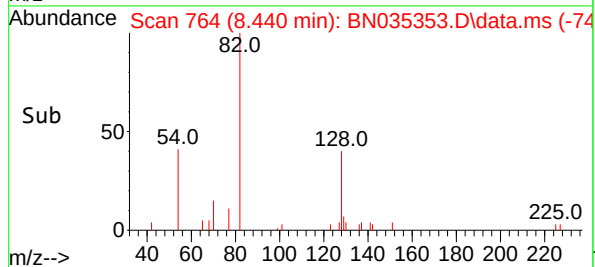
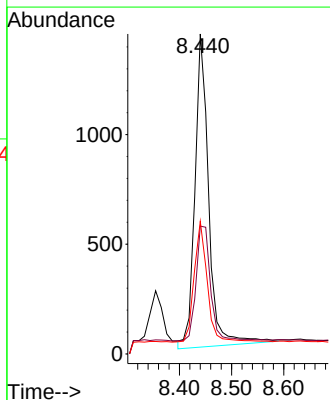
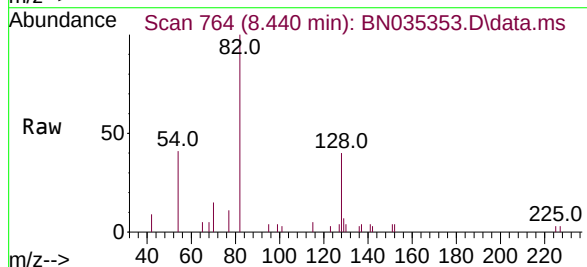
Instrument :
BNA_N
ClientSampleId :
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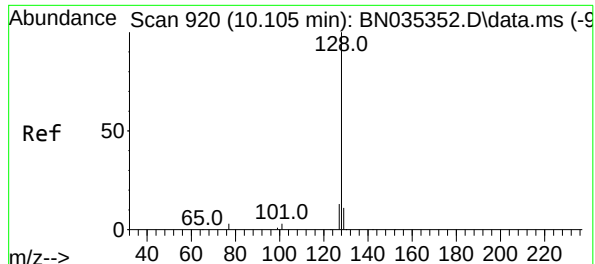
Tgt Ion:	136	Resp:	5308
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6



#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

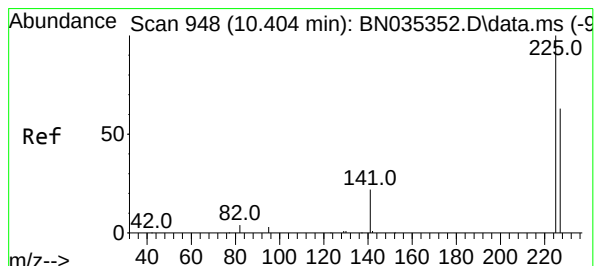
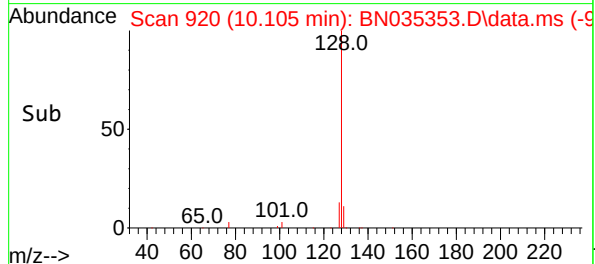
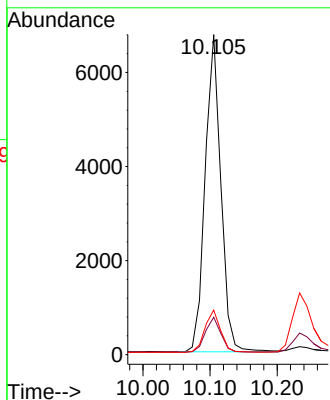
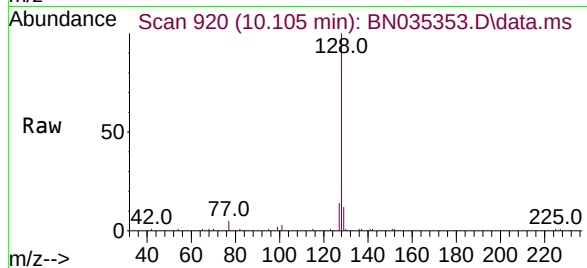




#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

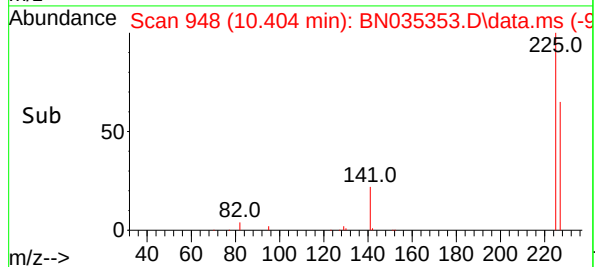
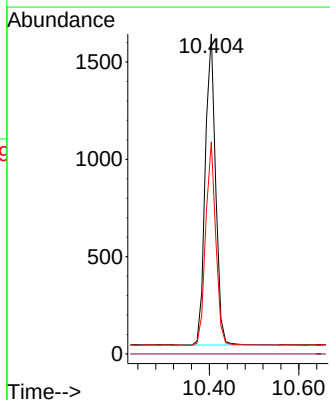
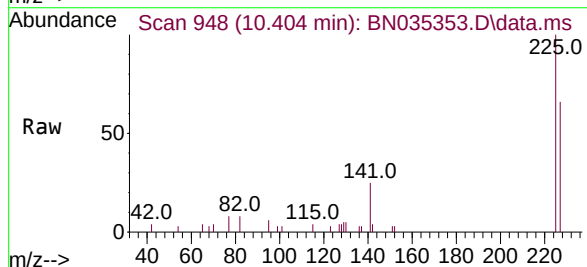
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

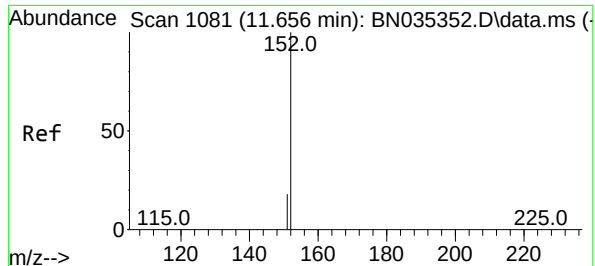
Tgt Ion	128	Resp	10954
Ion Ratio	Lower	Upper	
128	100		
129	11.7	9.8	14.6
127	13.9	11.4	17.2



#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

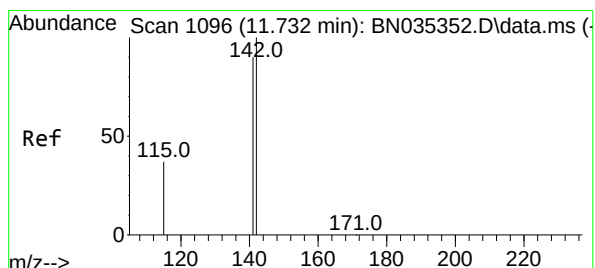
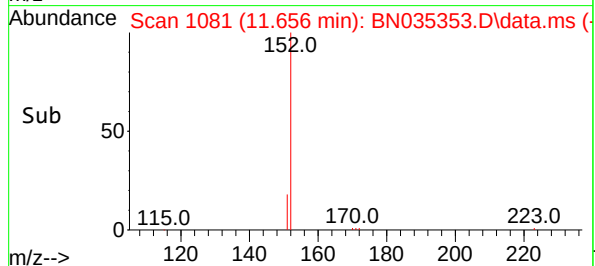
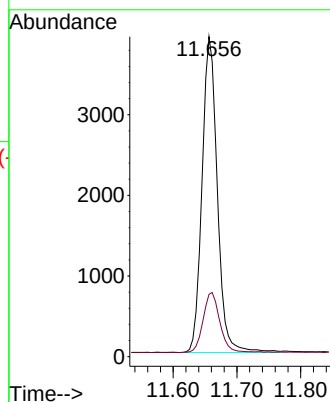
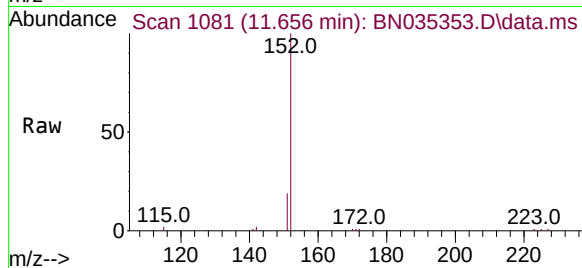




#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

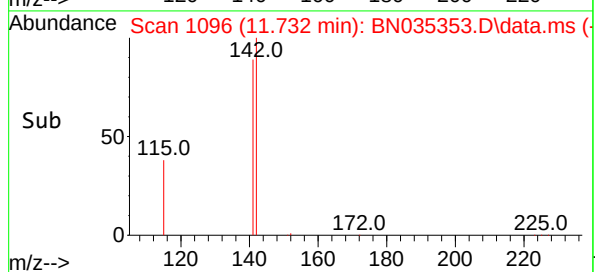
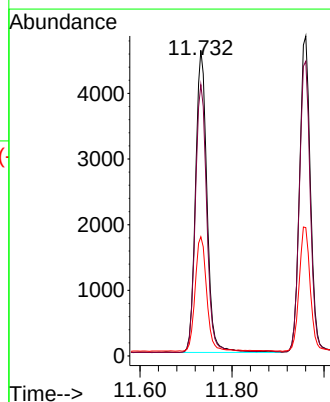
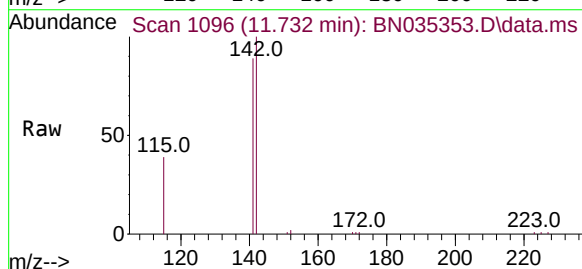
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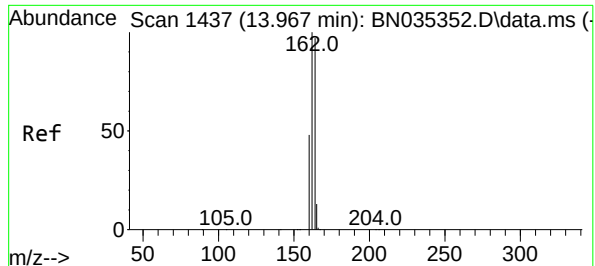
Tgt Ion:152 Resp: 6530
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

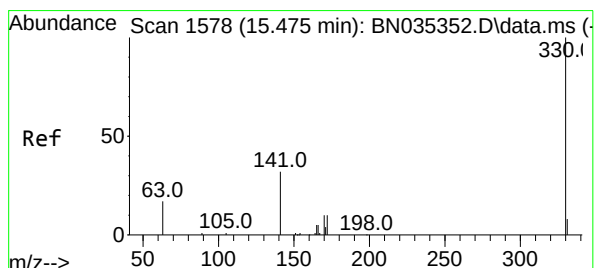
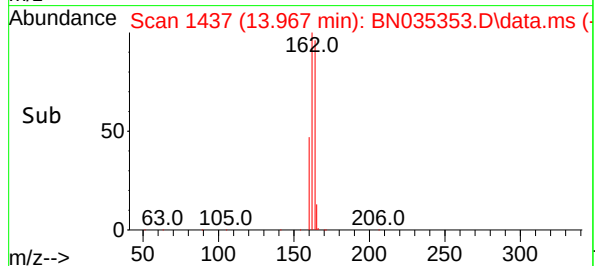
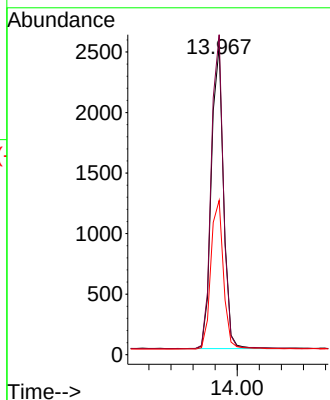
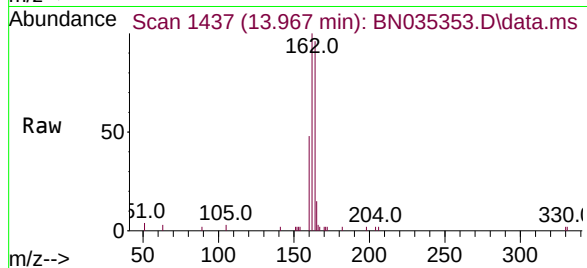




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

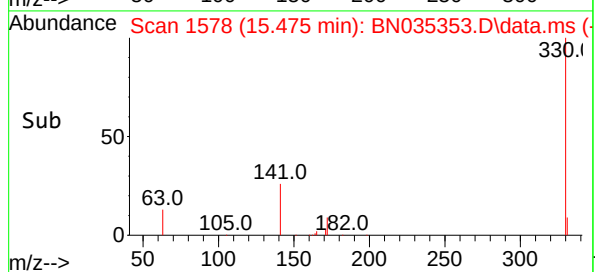
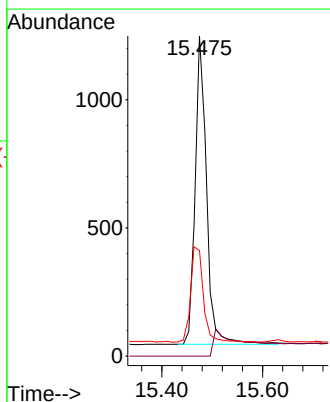
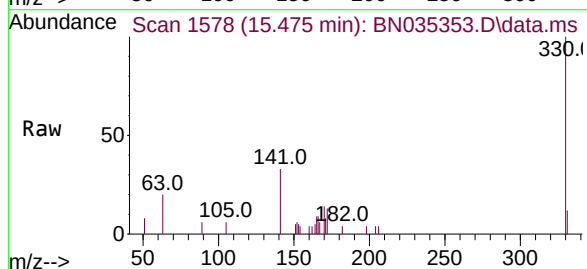
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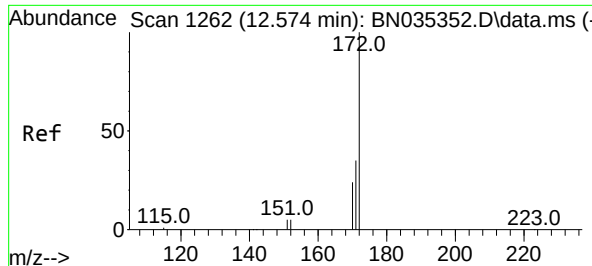
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.1	40.1	60.1



#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	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 :

SSTDIC0.8

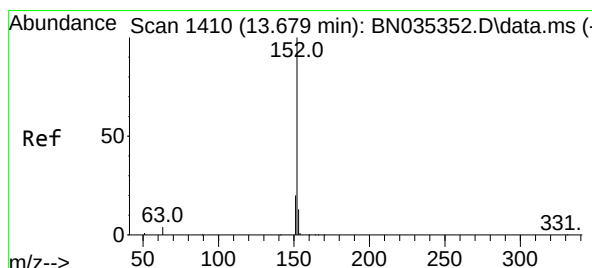
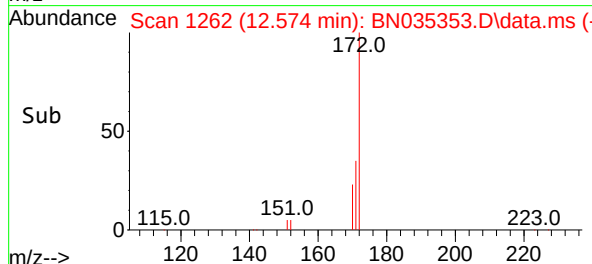
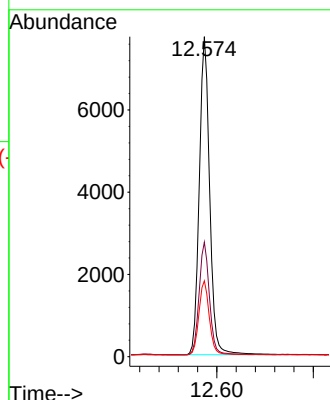
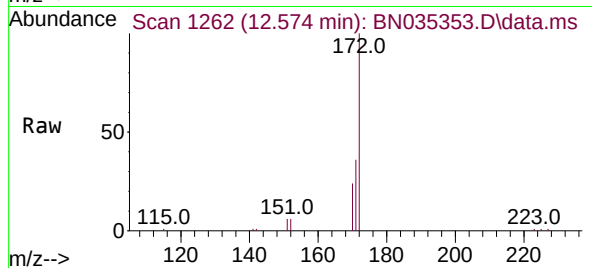
Tgt Ion:172 Resp: 11528

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

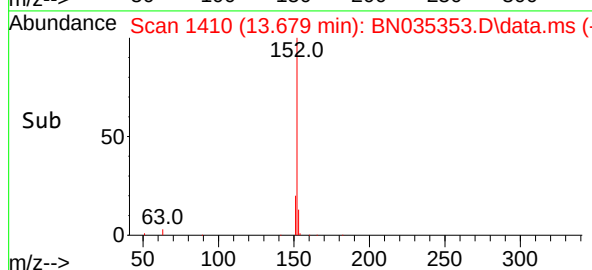
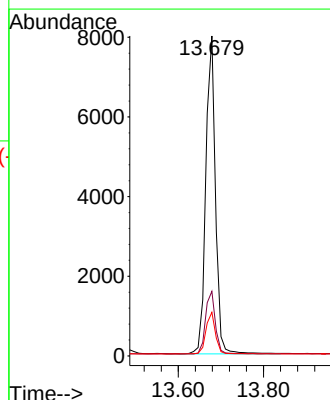
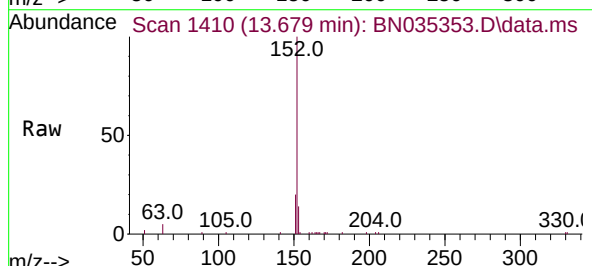
Tgt Ion:152 Resp: 12523

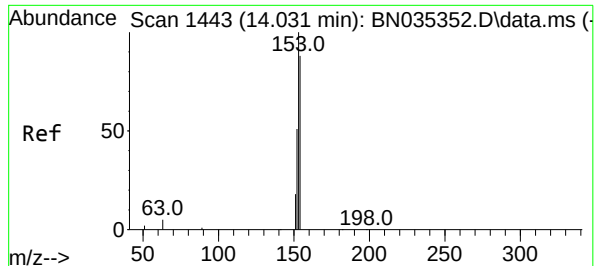
Ion Ratio Lower Upper

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

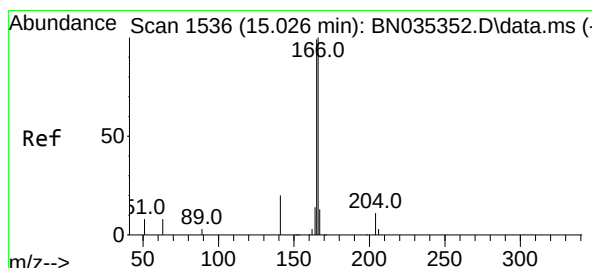
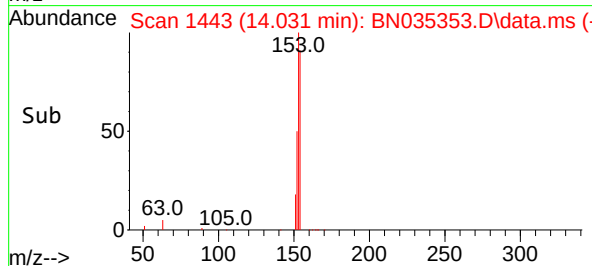
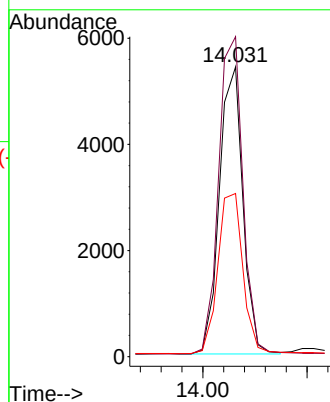
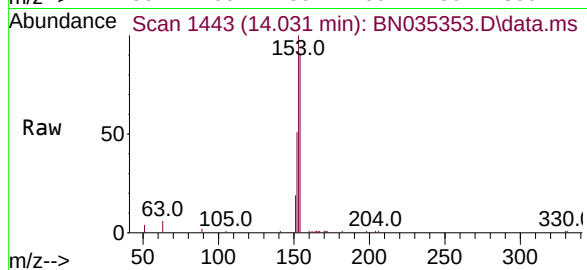
Tgt Ion:154 Resp: 8470

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

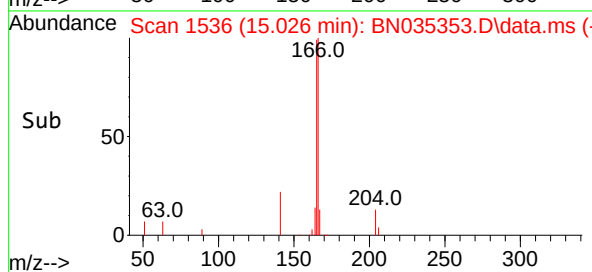
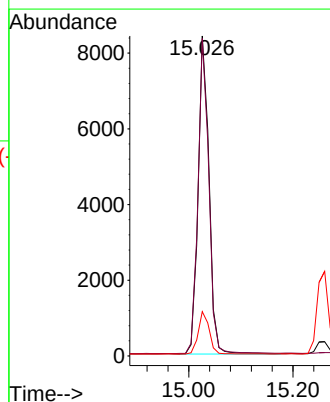
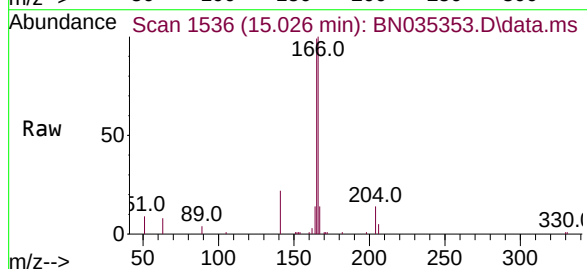
Tgt Ion:166 Resp: 12232

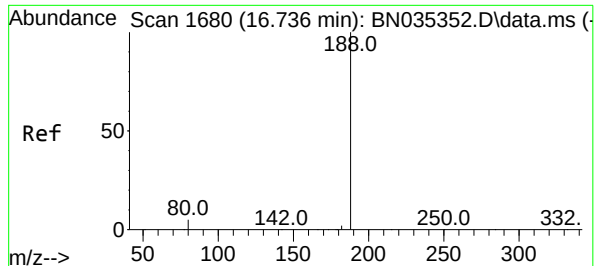
Ion Ratio Lower Upper

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

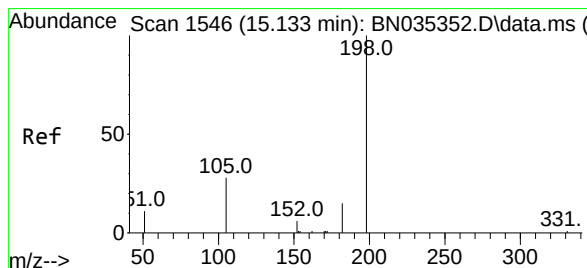
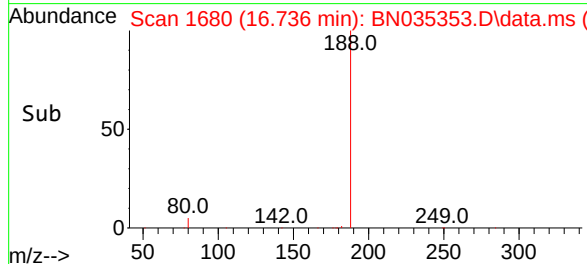
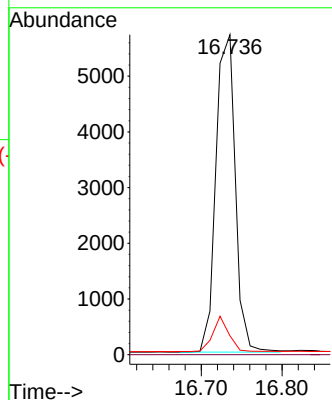
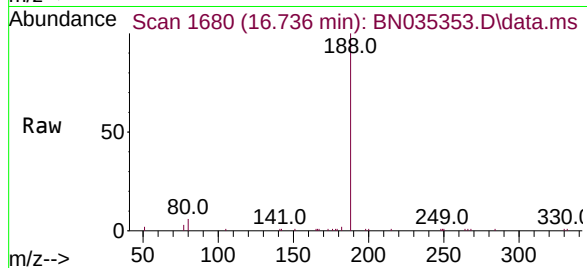
Tgt Ion:188 Resp: 9525

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

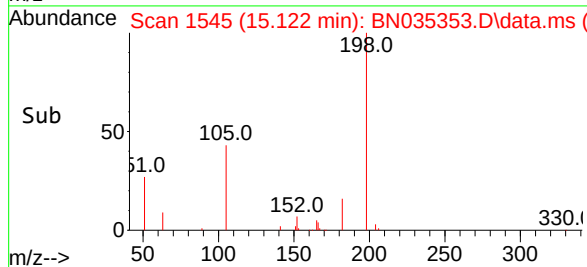
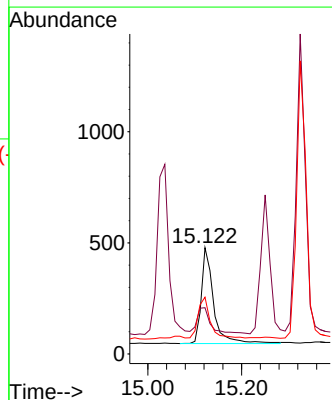
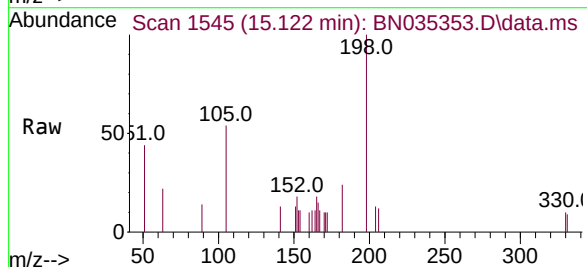
Tgt Ion:198 Resp: 784

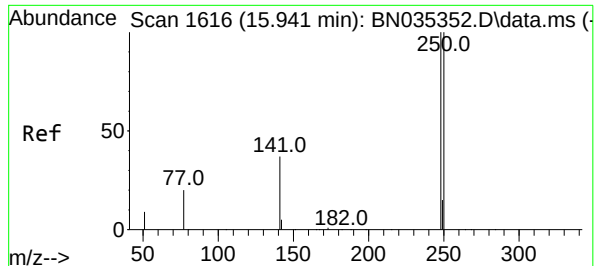
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

105 53.6 45.3 67.9

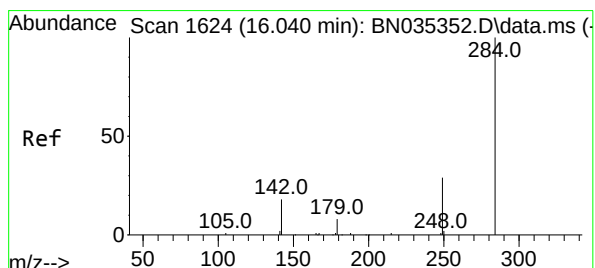
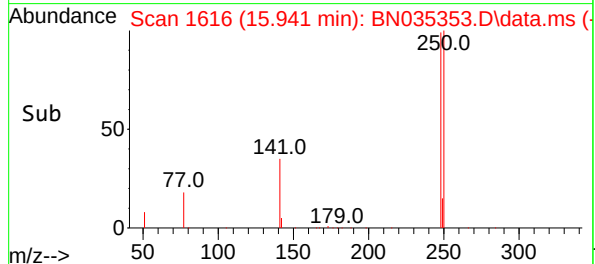
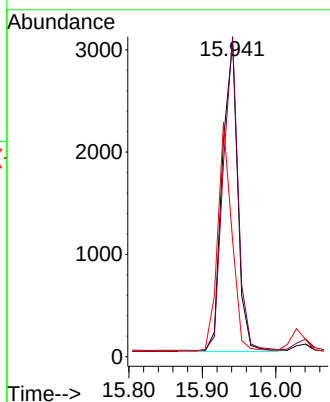
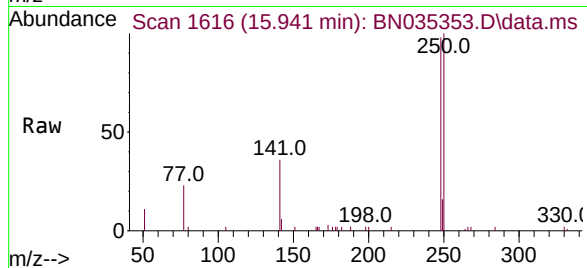




#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

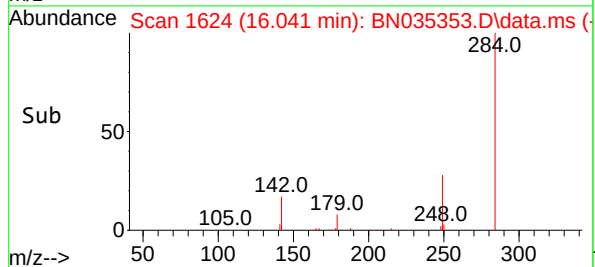
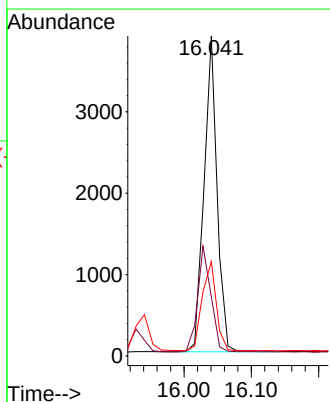
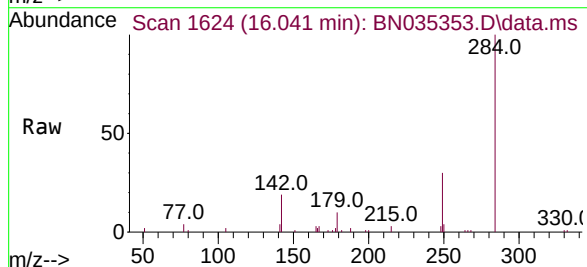
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

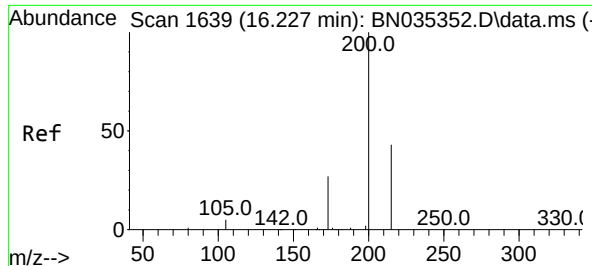
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3



#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

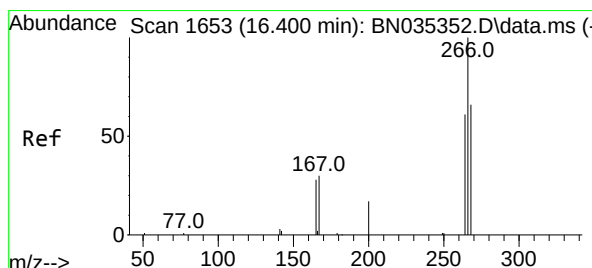
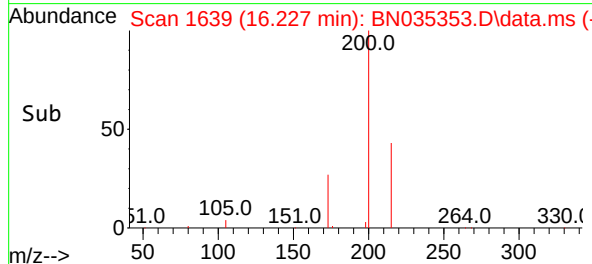
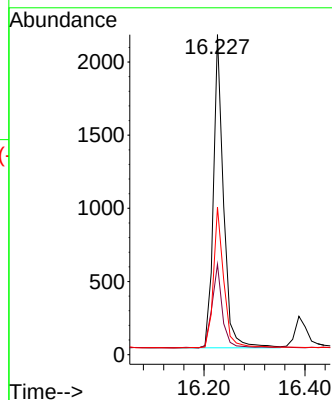
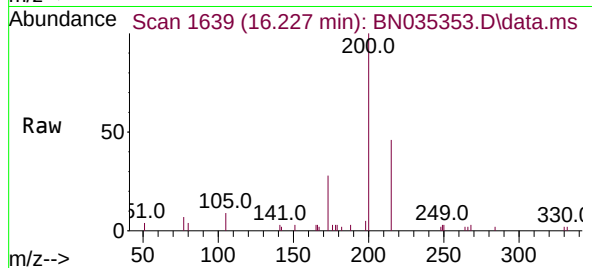




#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

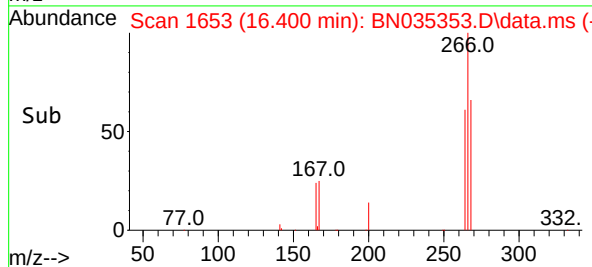
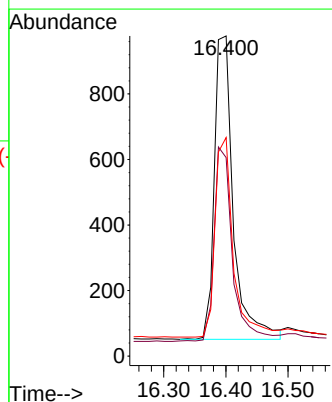
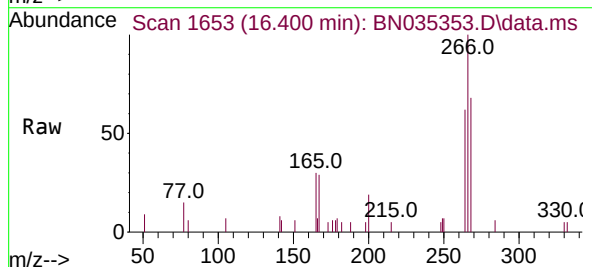
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

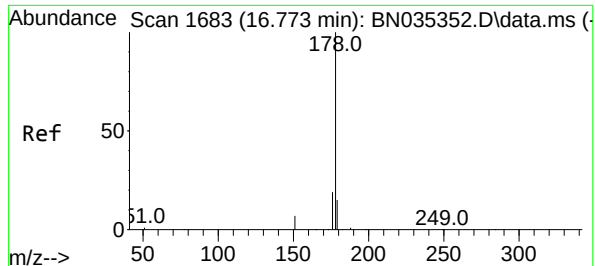
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	46.1	36.9	55.3



#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

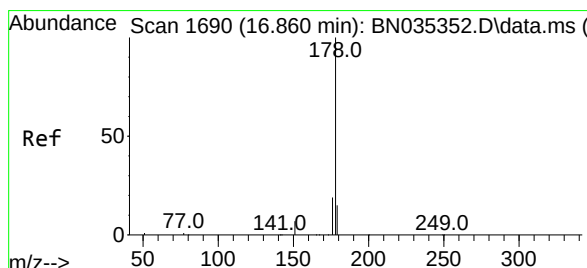
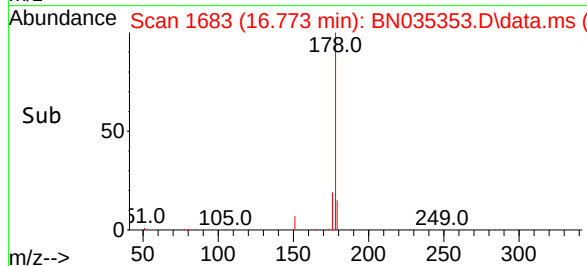
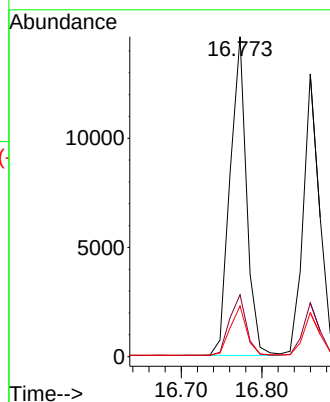
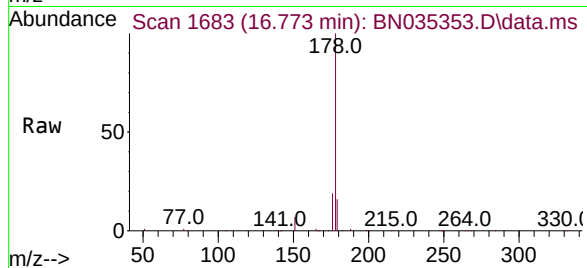
Tgt Ion:178 Resp: 20803

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

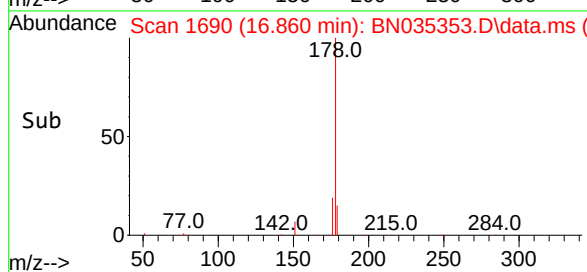
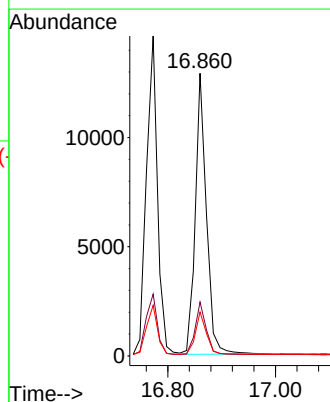
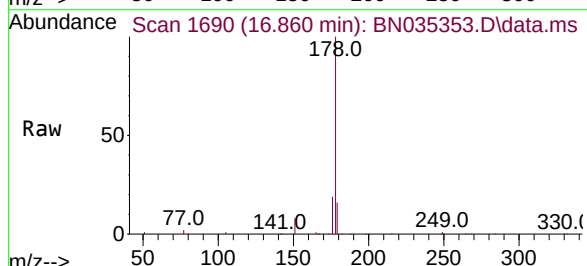
Tgt Ion:178 Resp: 18528

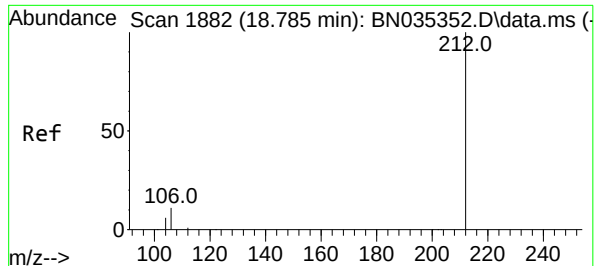
Ion Ratio Lower Upper

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

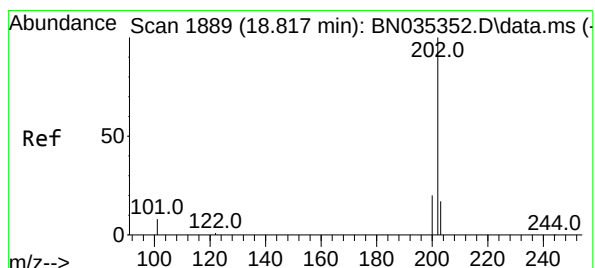
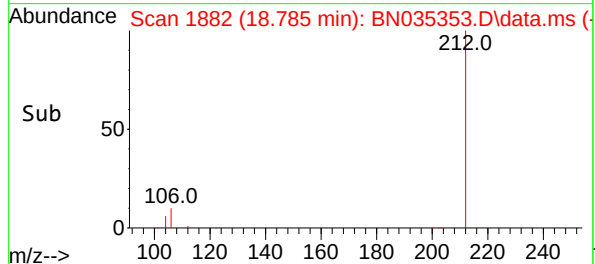
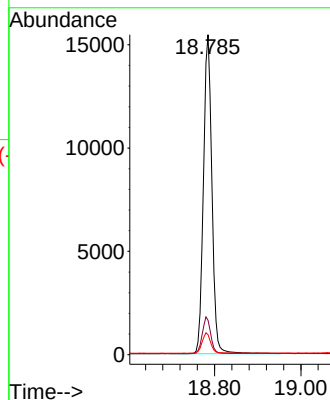
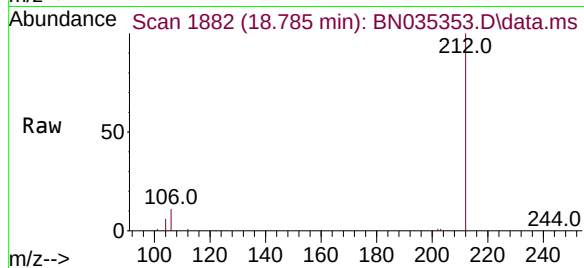
Tgt Ion:212 Resp: 21050

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

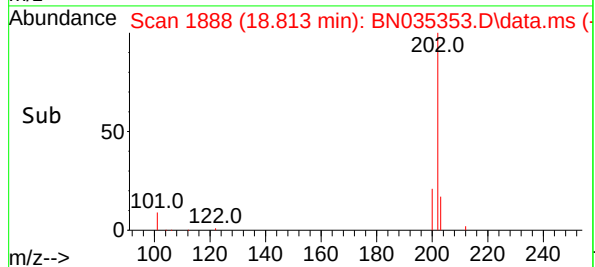
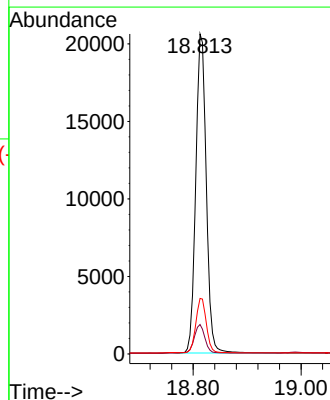
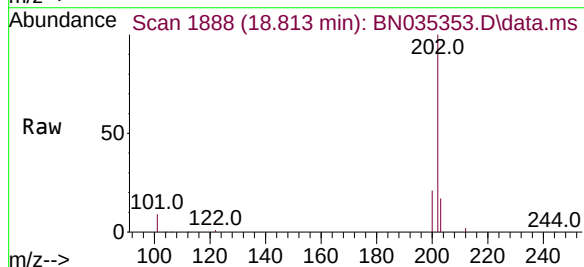
Tgt Ion:202 Resp: 27743

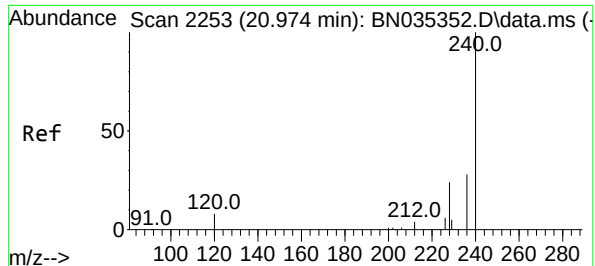
Ion Ratio Lower Upper

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

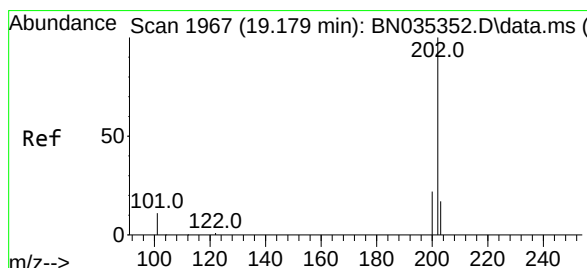
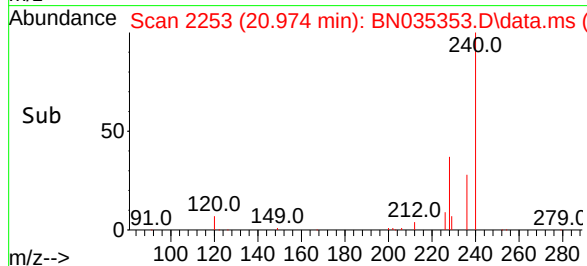
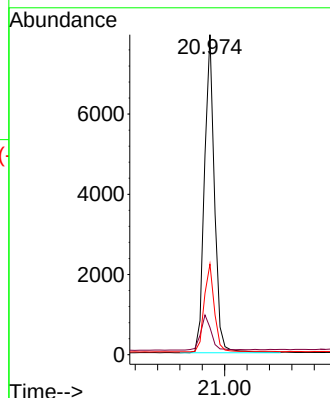
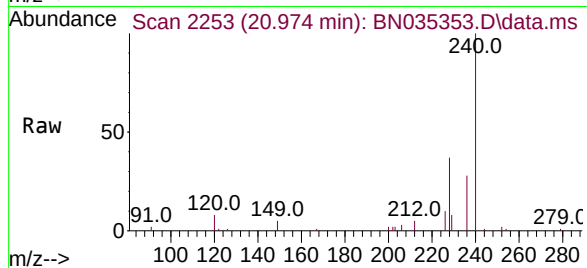
Tgt Ion:240 Resp: 9837

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

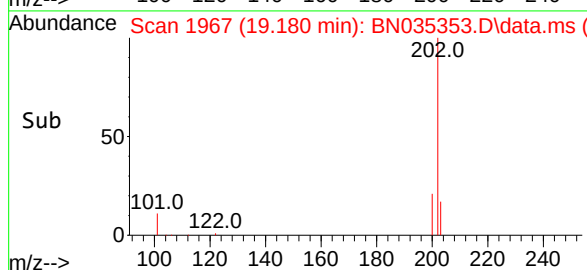
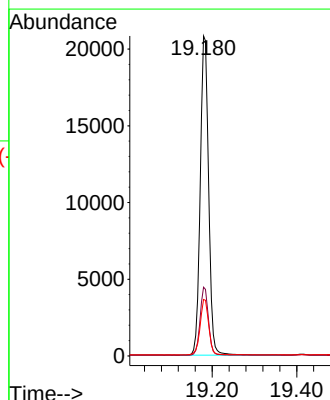
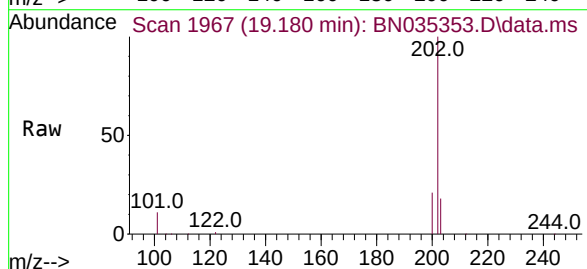
Tgt Ion:202 Resp: 28384

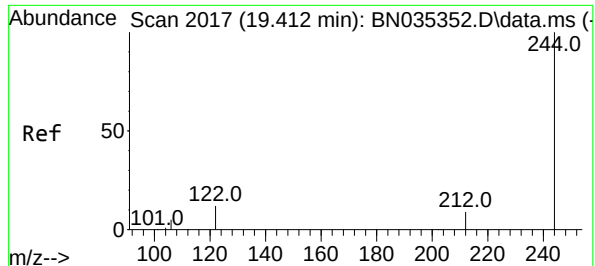
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.3 21.5

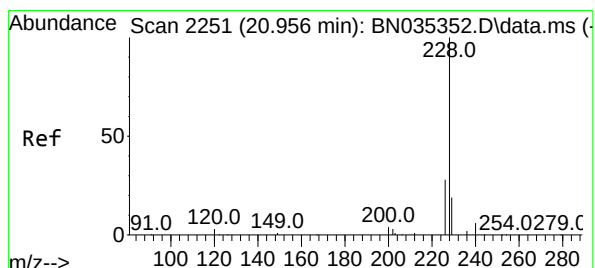
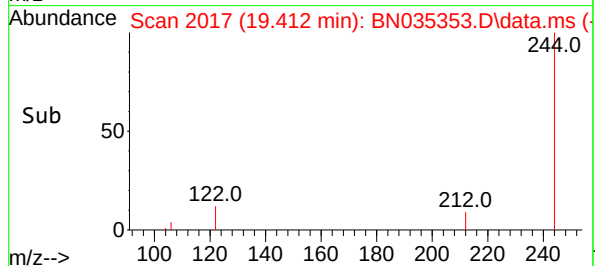
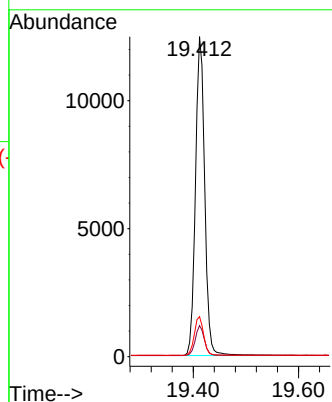
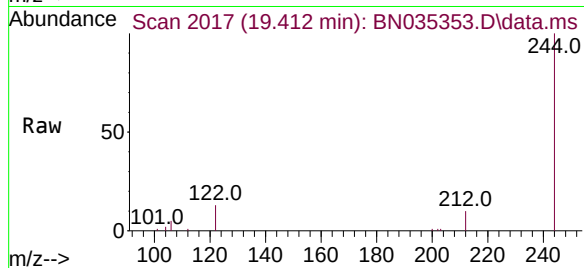




#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

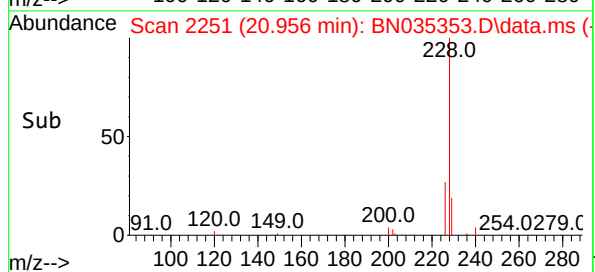
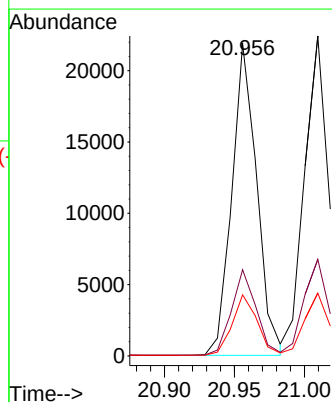
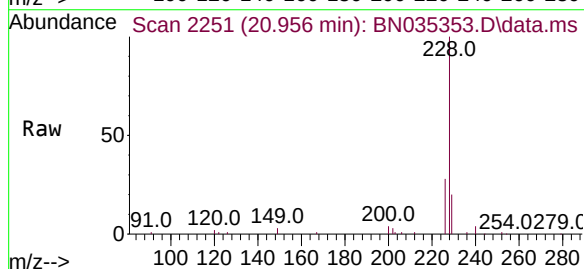
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

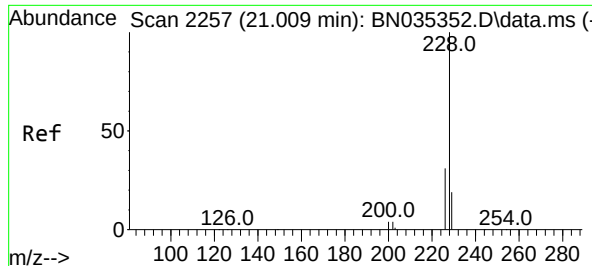
Tgt Ion:244 Resp: 15171
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.5 10.3 15.5



#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

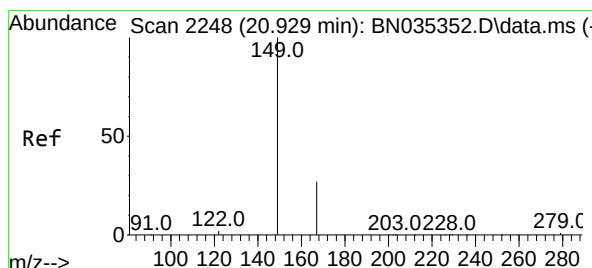
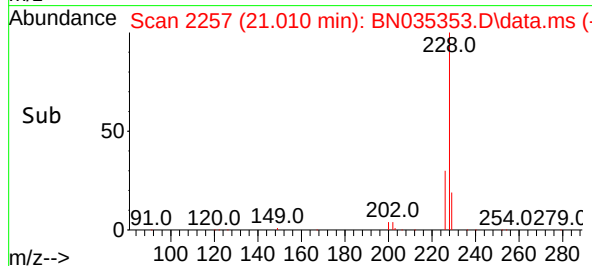
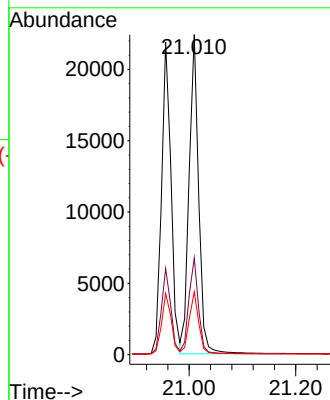
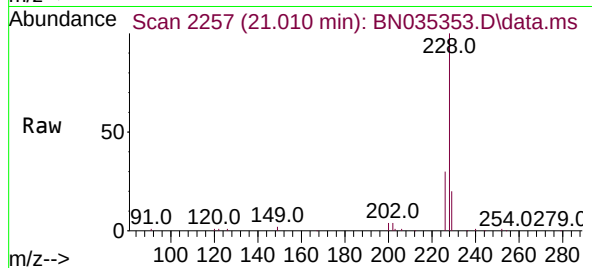
Tgt Ion:228 Resp: 27838

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

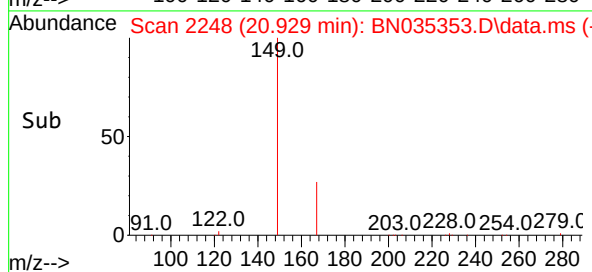
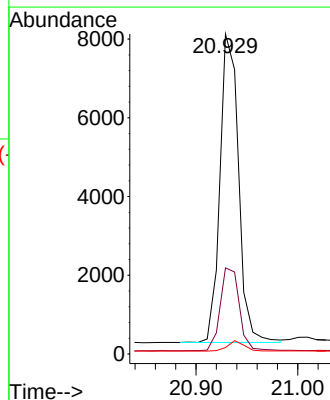
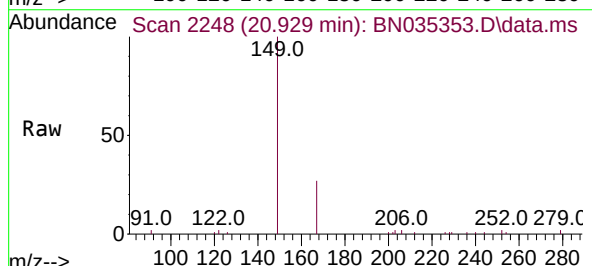
Tgt Ion:149 Resp: 9941

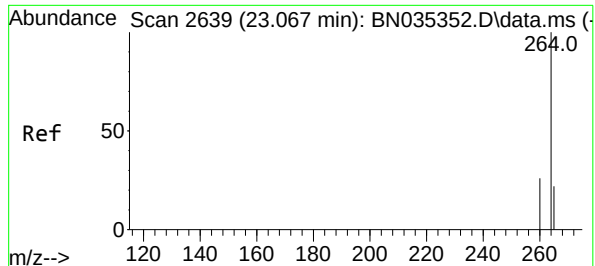
Ion Ratio Lower Upper

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 :

SSTDIC0.8

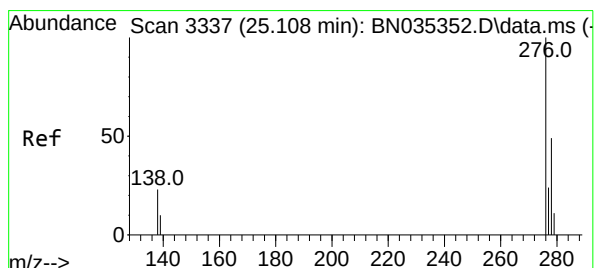
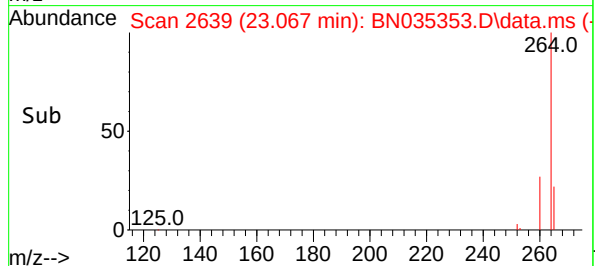
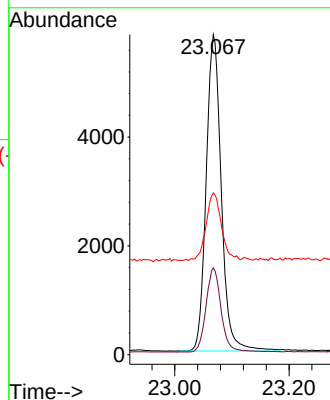
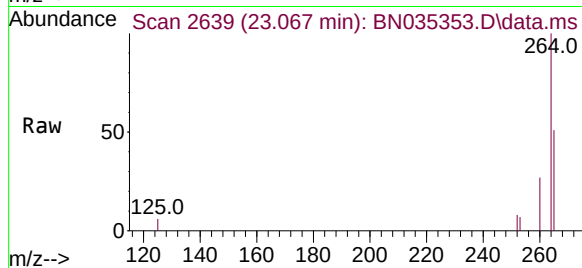
Tgt Ion:264 Resp: 10698

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

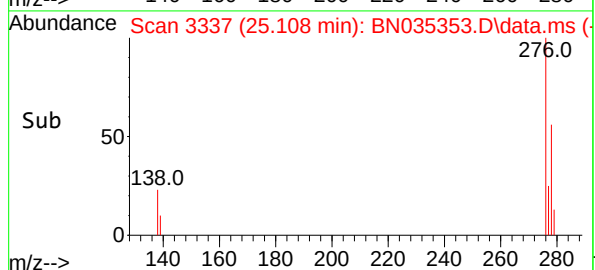
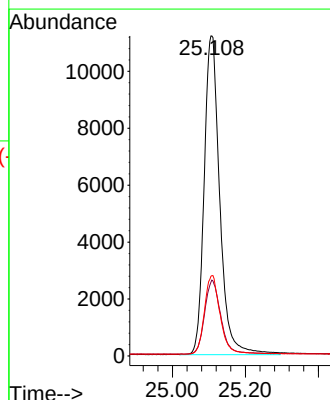
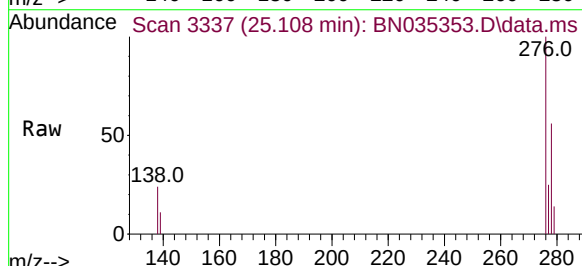
Tgt Ion:276 Resp: 33248

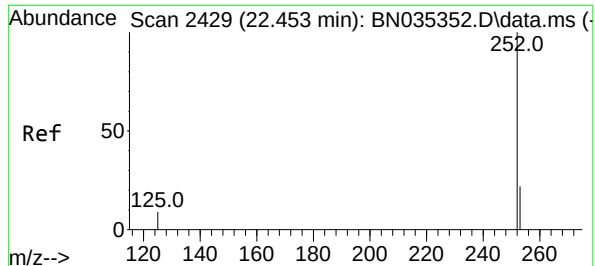
Ion Ratio Lower Upper

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

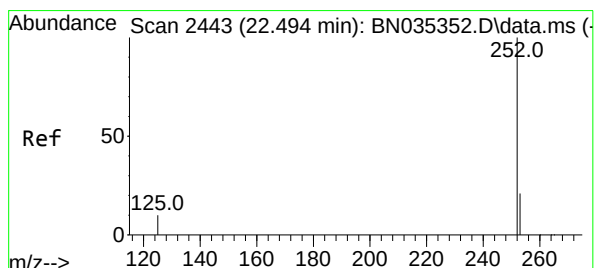
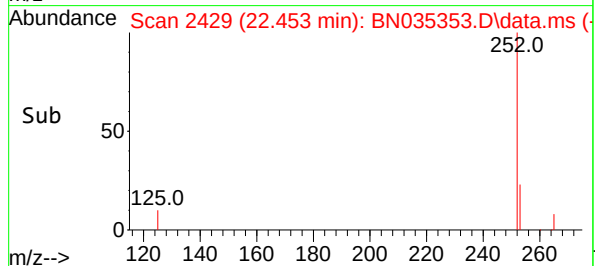
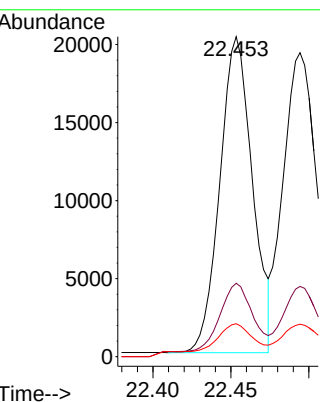
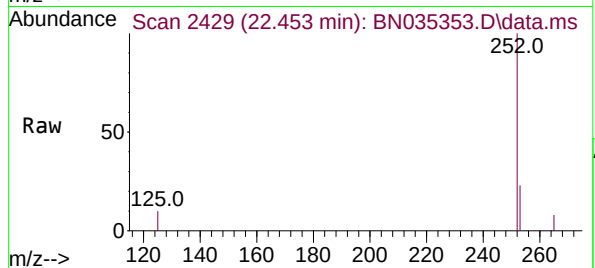
Tgt Ion:252 Resp: 29491

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

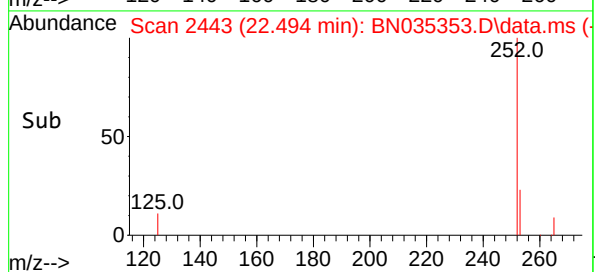
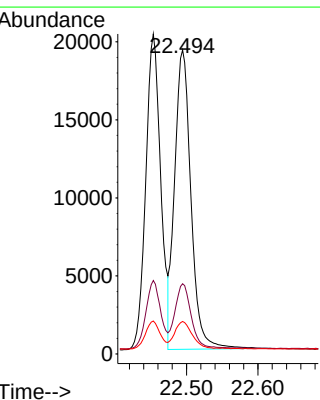
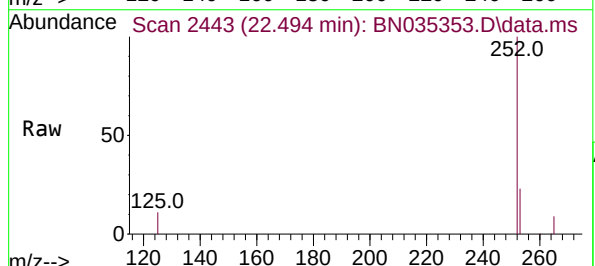
Tgt Ion:252 Resp: 30369

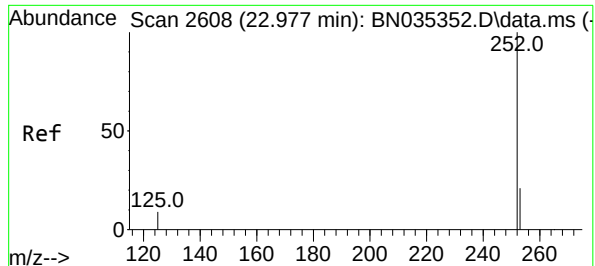
Ion Ratio Lower Upper

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 :

SSTDIC0.8

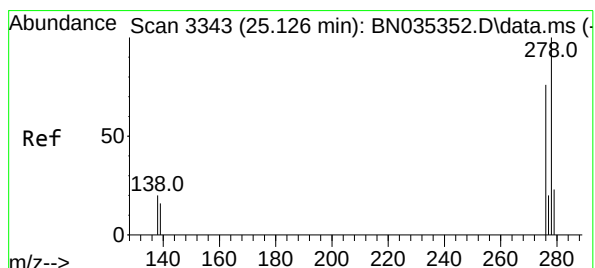
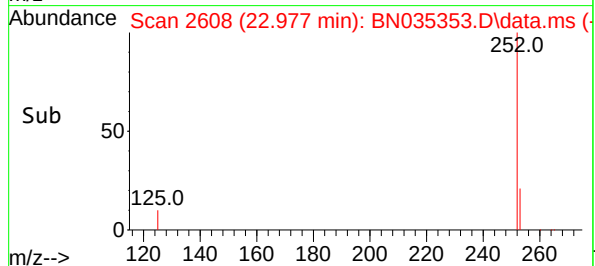
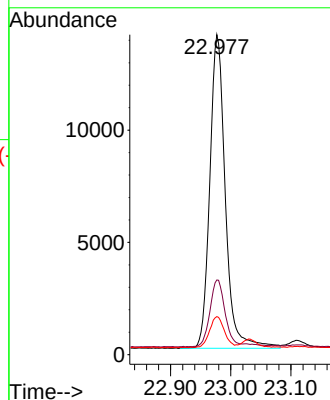
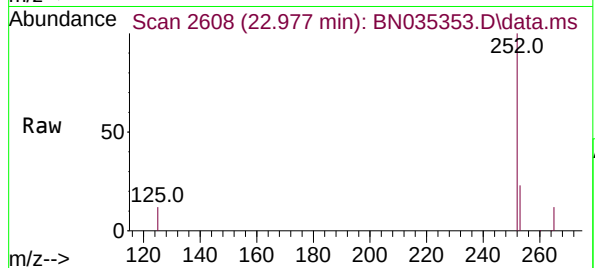
Tgt Ion:252 Resp: 25053

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

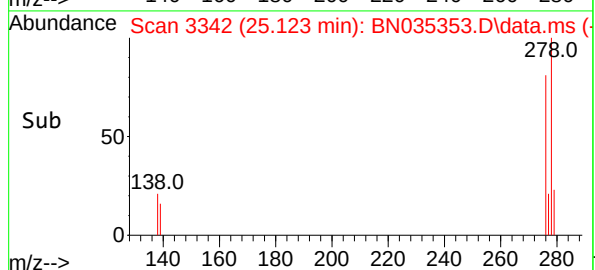
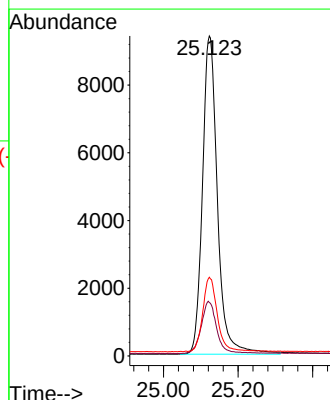
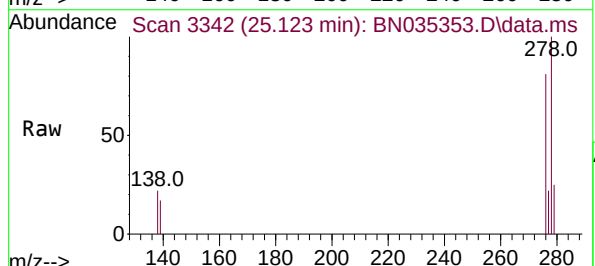
Tgt Ion:278 Resp: 26222

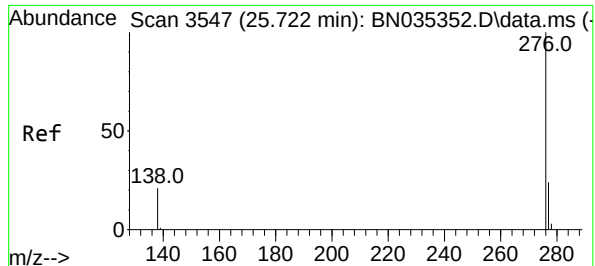
Ion Ratio Lower Upper

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

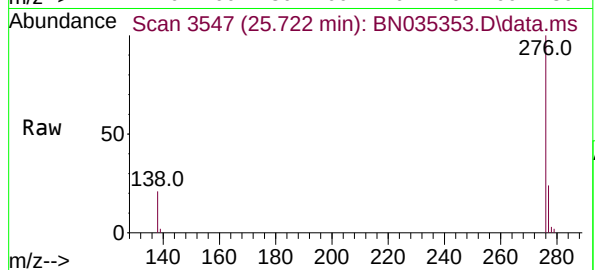
Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



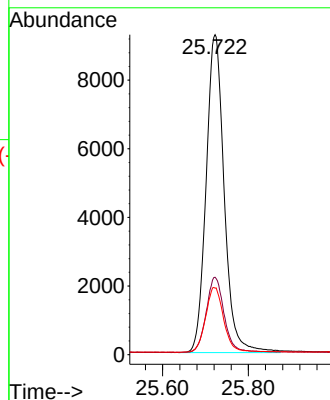
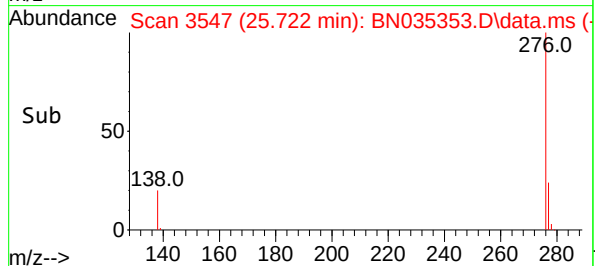
Tgt Ion:276 Resp: 27143

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

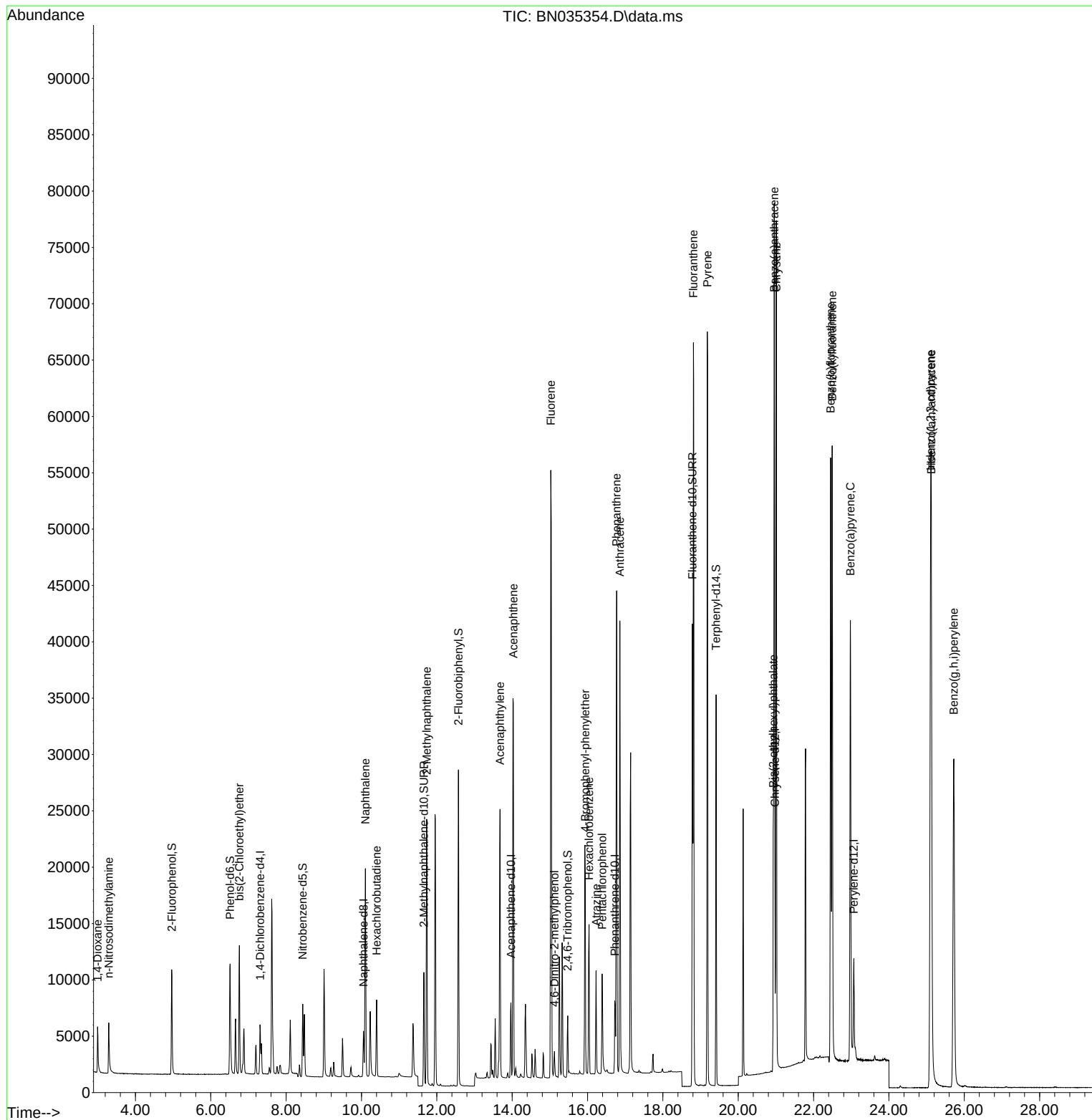
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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						
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

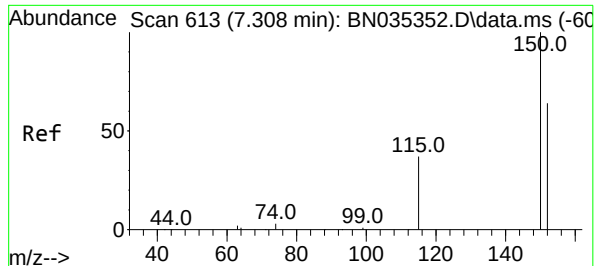
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

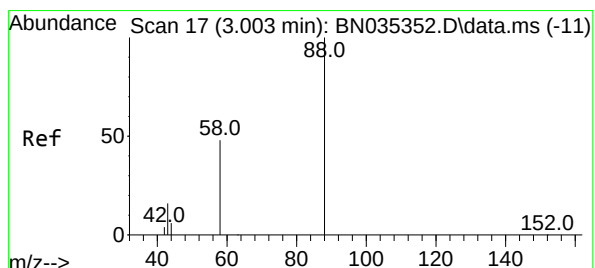
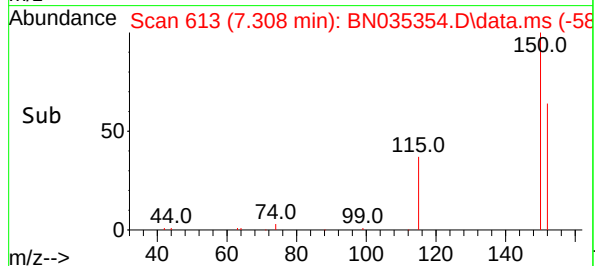
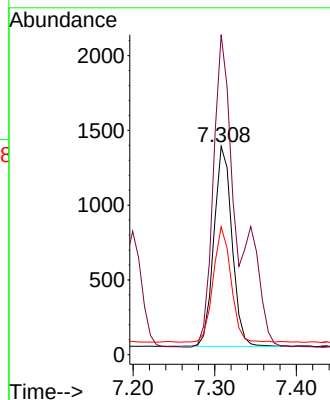
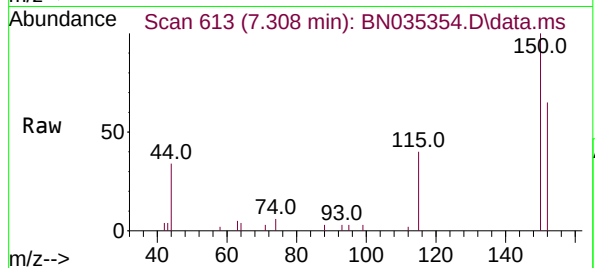




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

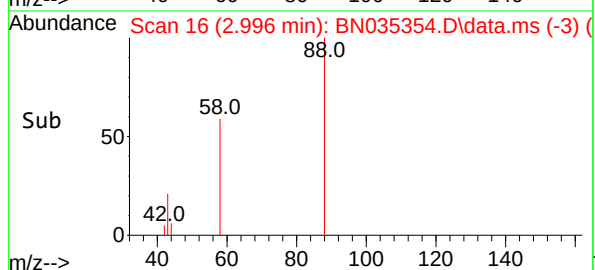
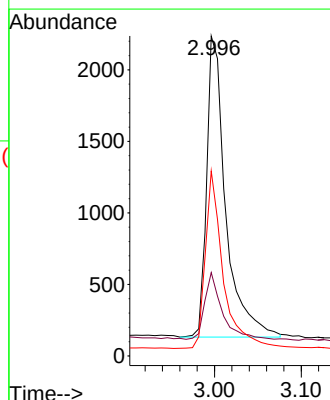
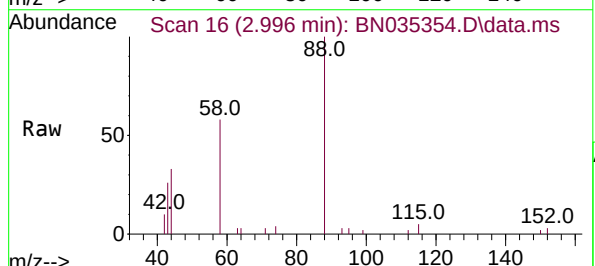
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

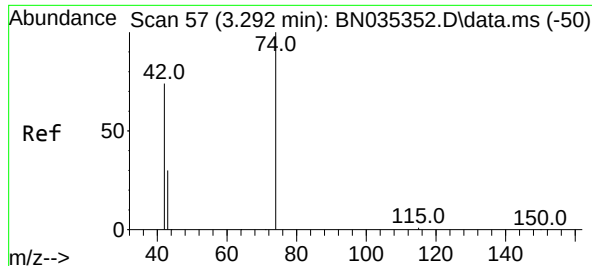
Tgt Ion:152 Resp: 2053
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 61.4 49.6 74.4



#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

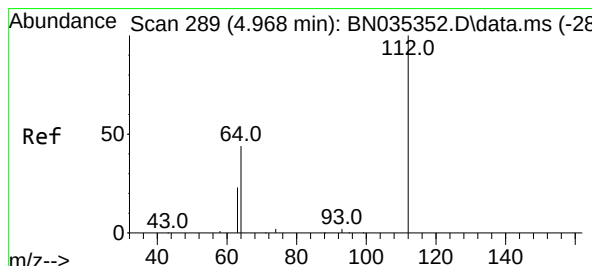
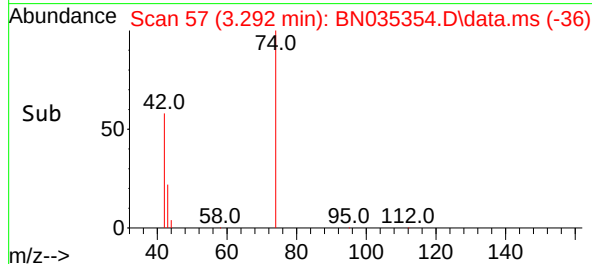
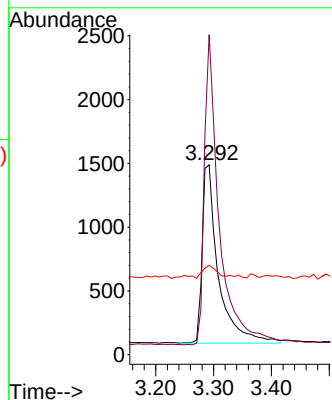
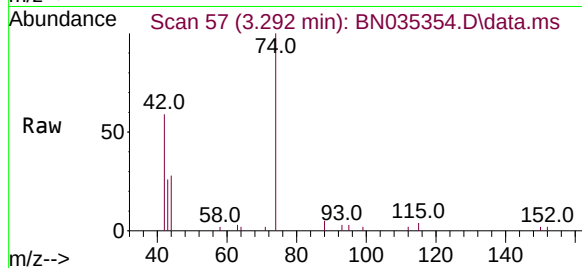




#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

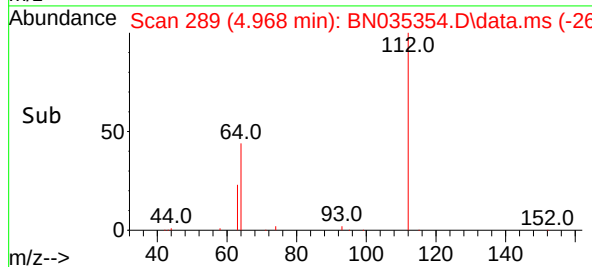
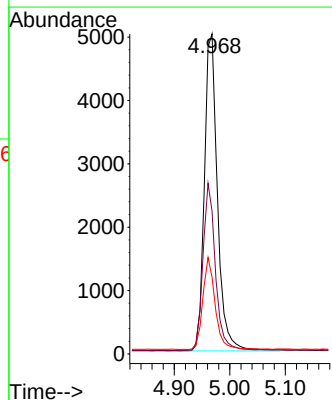
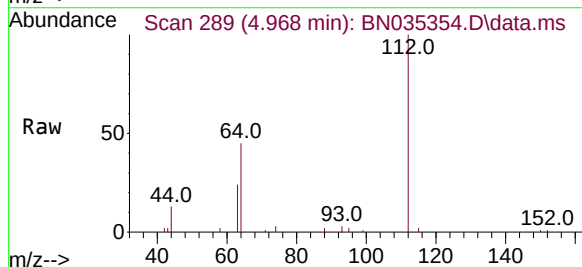
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

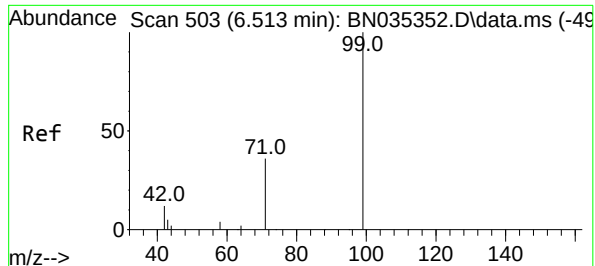
Tgt Ion: 42 Resp: 2729
Ion Ratio Lower Upper
42 100
74 160.4 124.9 187.3
44 6.2 2.2 3.4#



#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

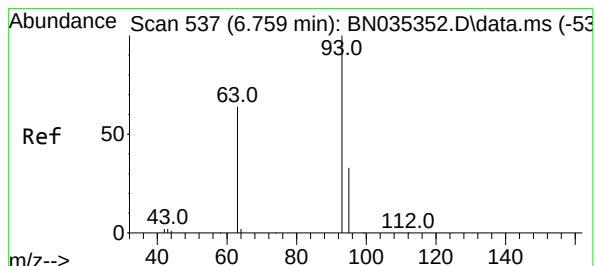
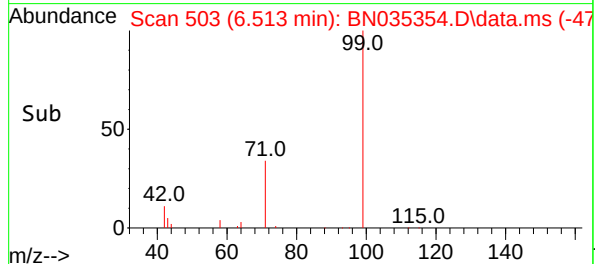
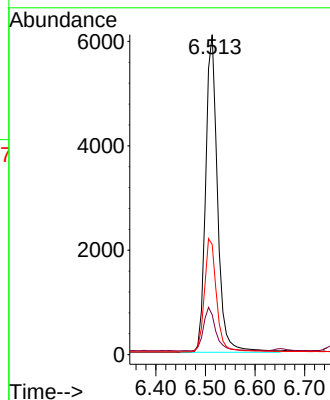
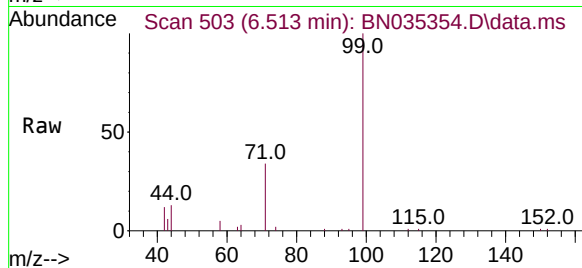




#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

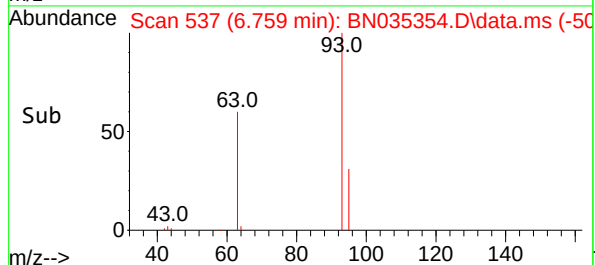
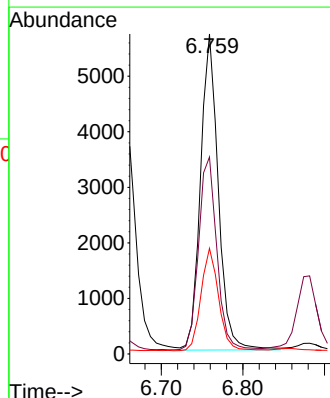
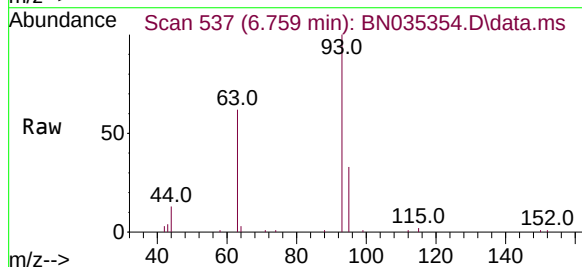
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

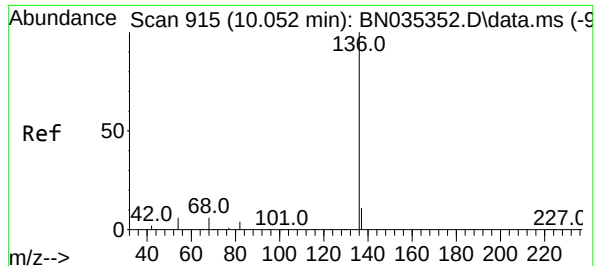
Tgt Ion:	99	Resp:	10139
Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:	93	Resp:	8629
Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.2	25.7	38.5

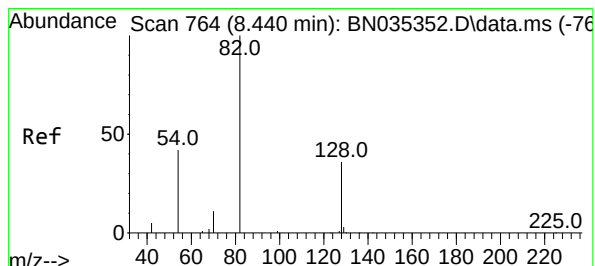
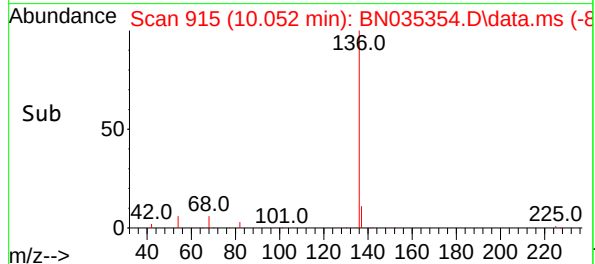
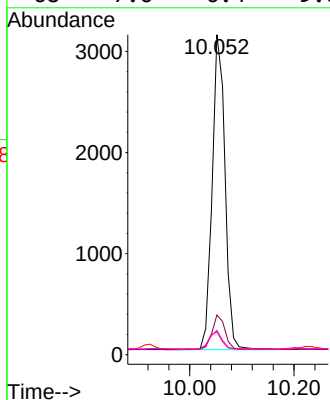
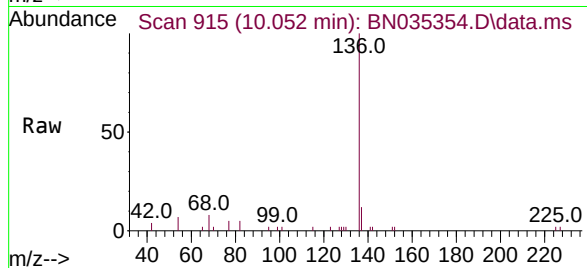




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

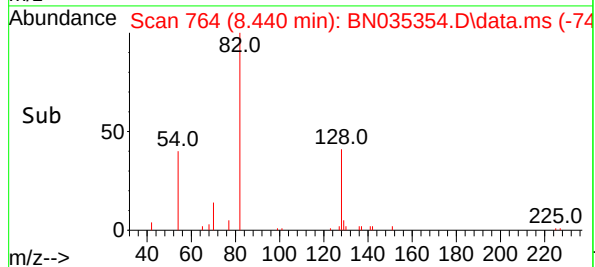
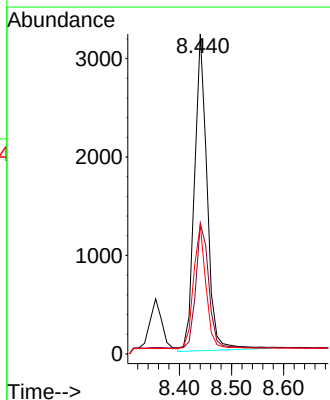
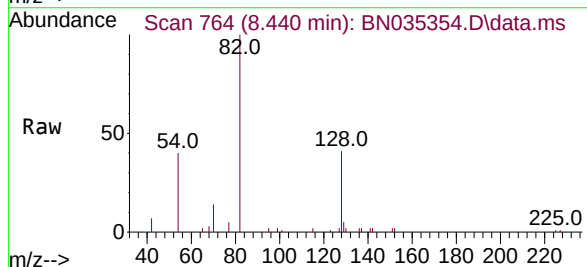
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

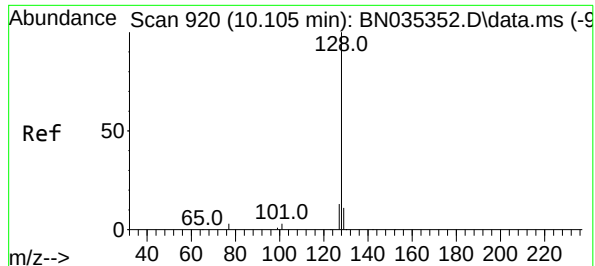
Tgt Ion:	136	Resp:	5309
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6



#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

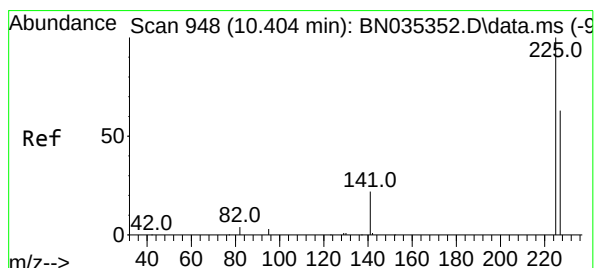
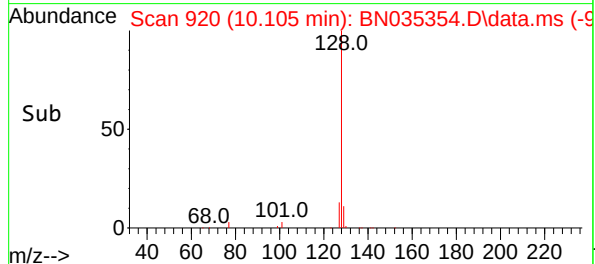
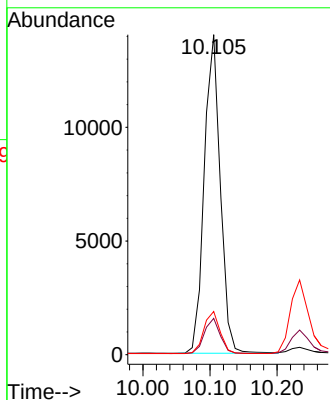
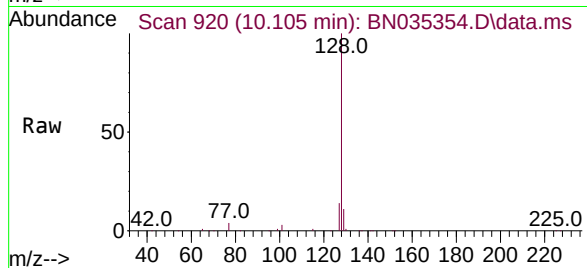




#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

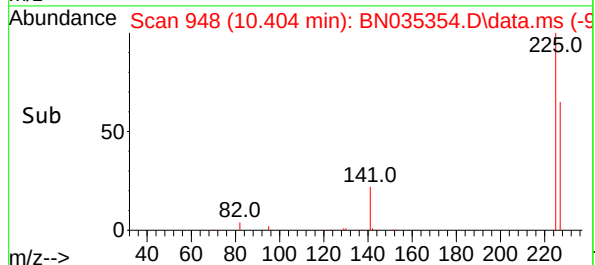
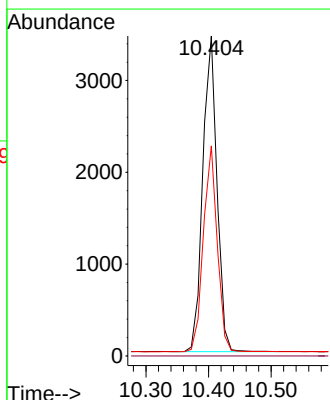
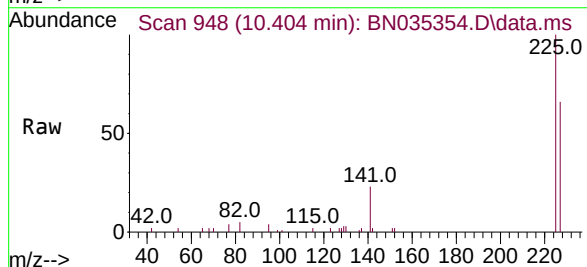
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

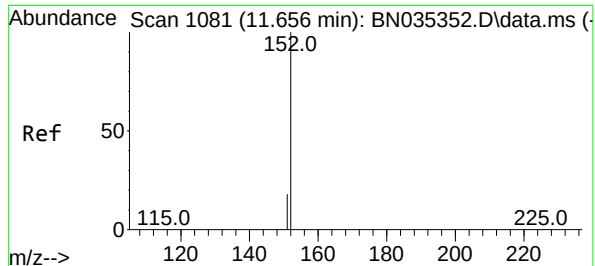
Tgt Ion:128 Resp: 23280
Ion Ratio Lower Upper
128 100
129 11.4 9.8 14.6
127 13.5 11.4 17.2



#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

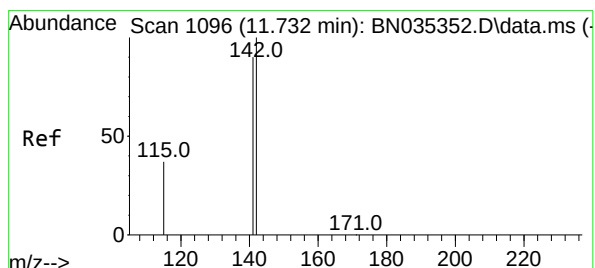
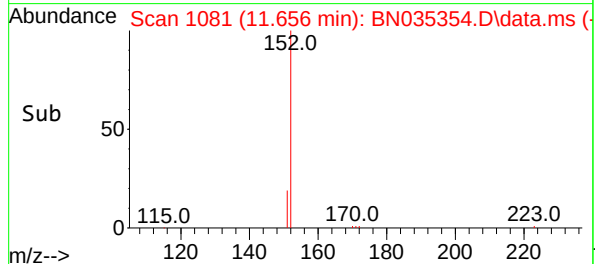
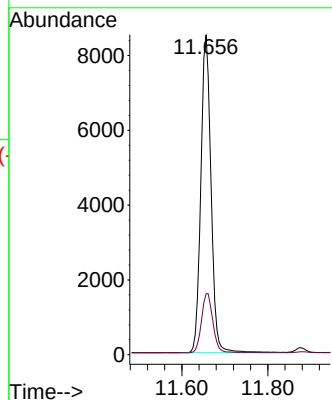
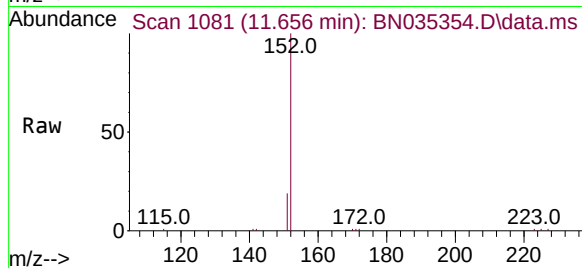




#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

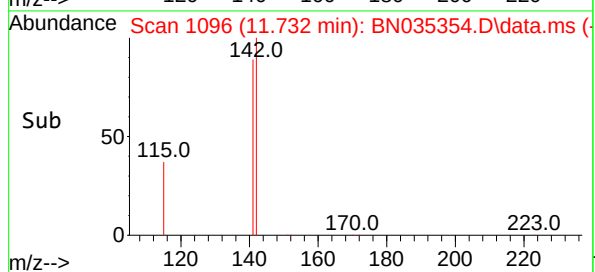
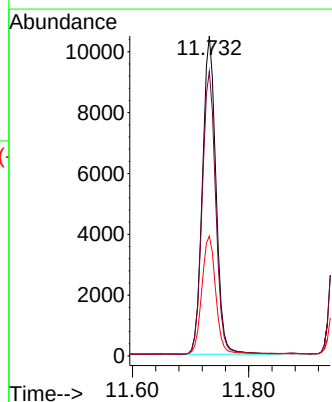
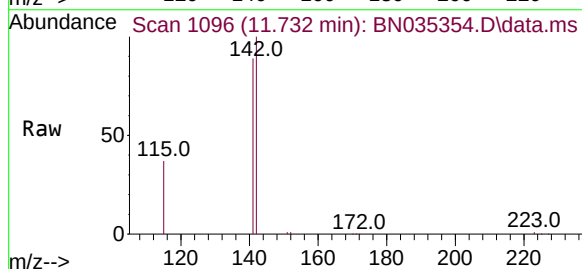
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

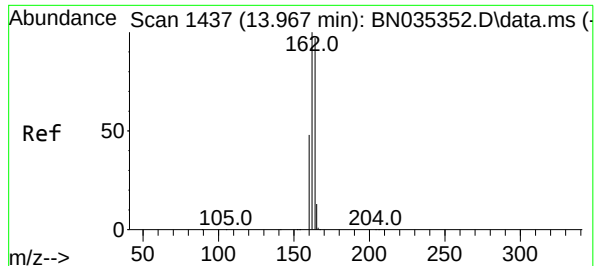
Tgt Ion:152 Resp: 13988
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#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

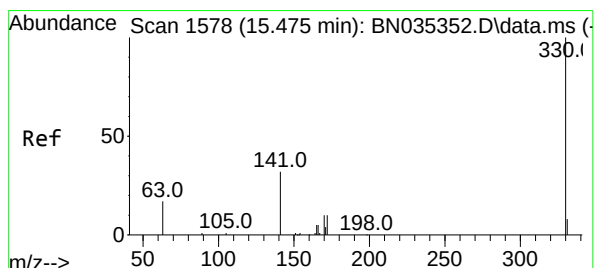
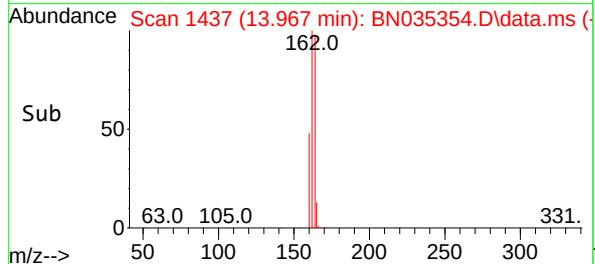
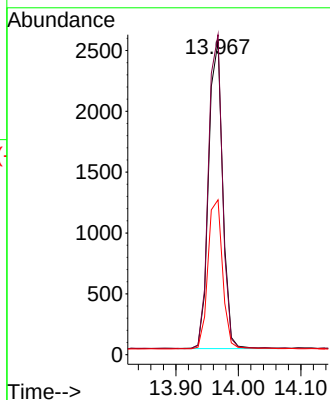
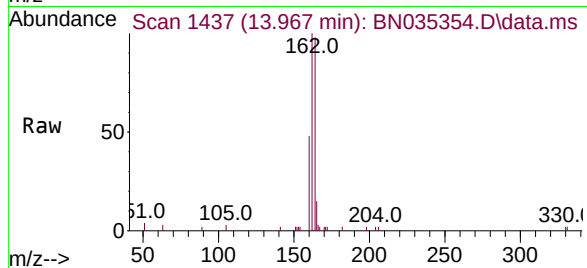




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

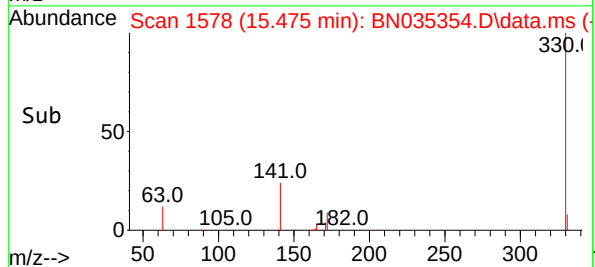
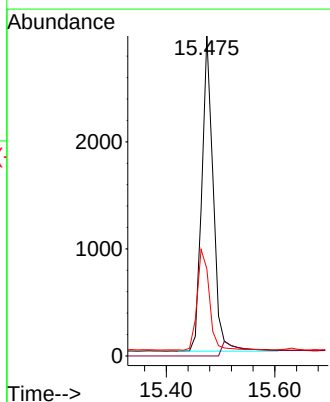
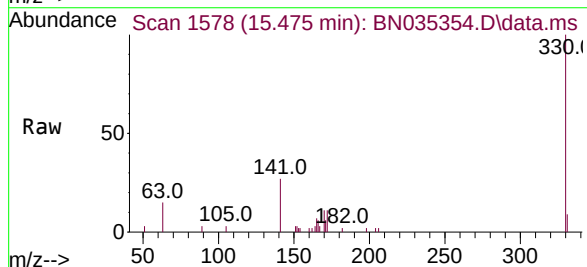
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

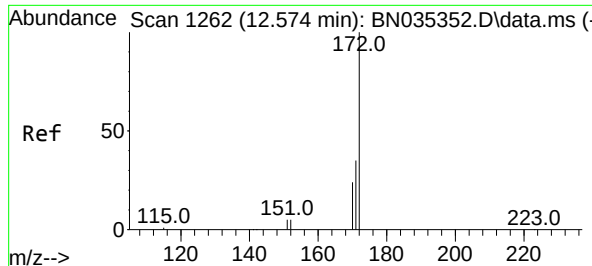
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.5	40.1	60.1



#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	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# 11

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

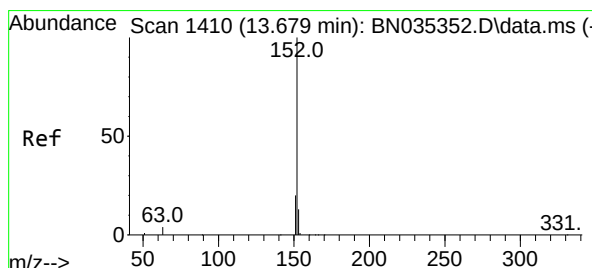
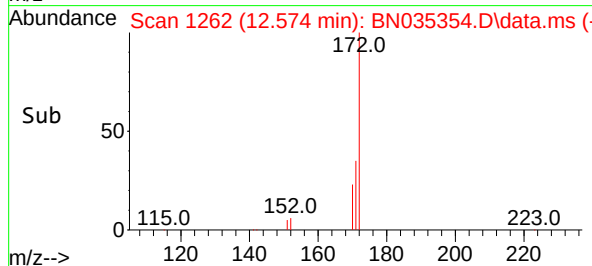
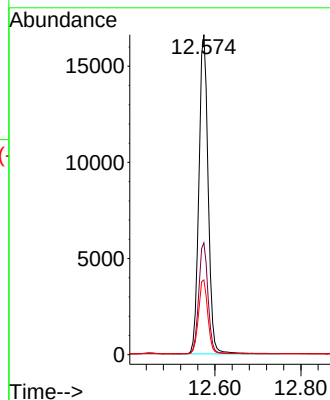
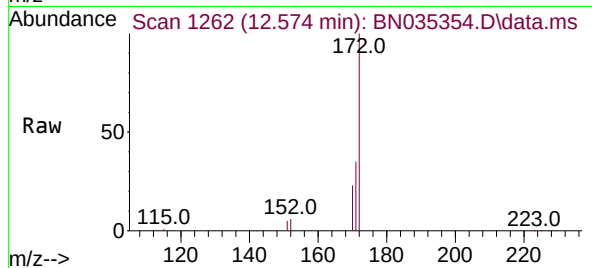
Tgt Ion:172 Resp: 24687

Ion Ratio Lower Upper

172 100

171 35.0 29.0 43.4

170 23.4 19.8 29.8



#16

Acenaphthylene

Concen: 1.626 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

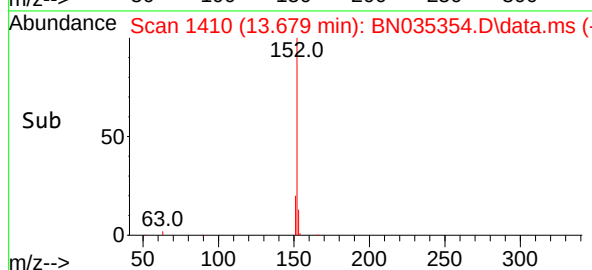
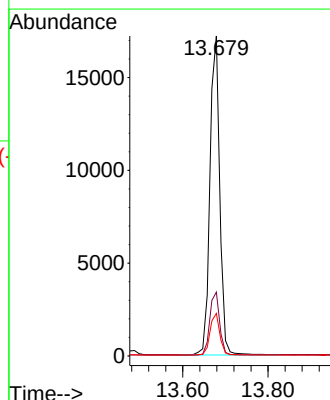
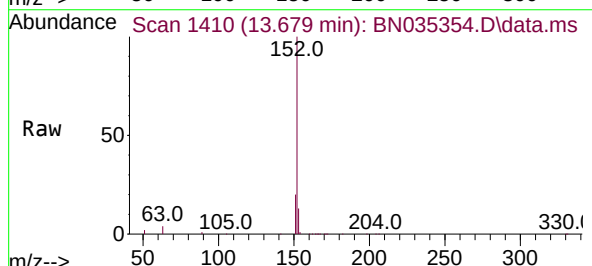
Tgt Ion:152 Resp: 27389

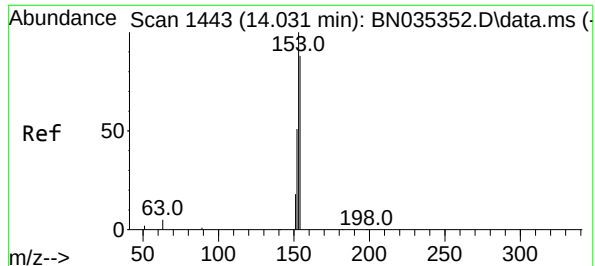
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 1.636 ng

RT: 14.032 min Scan# 1443

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

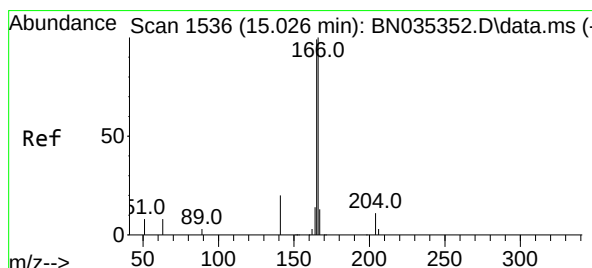
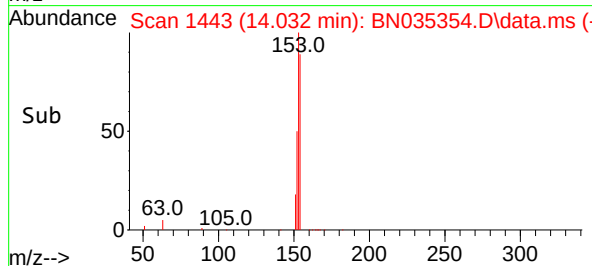
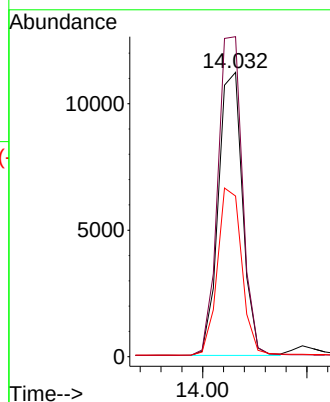
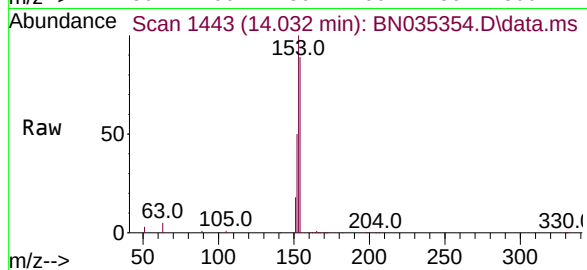
Tgt Ion:154 Resp: 18061

Ion Ratio Lower Upper

154 100

153 115.1 92.6 139.0

152 59.9 49.0 73.6



#18

Fluorene

Concen: 1.604 ng

RT: 15.026 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

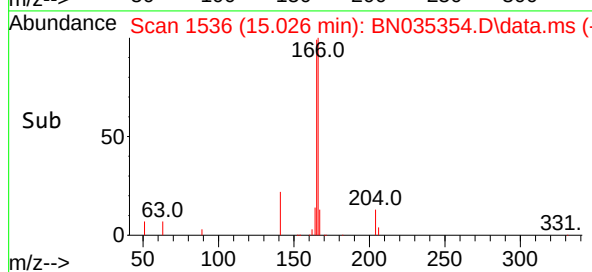
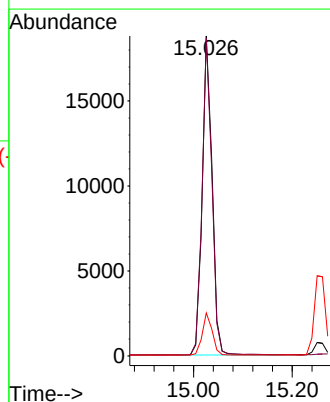
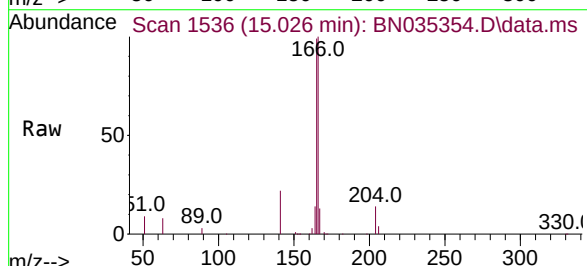
Tgt Ion:166 Resp: 26044

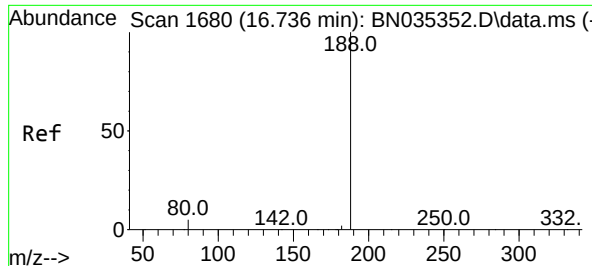
Ion Ratio Lower Upper

166 100

165 98.2 79.7 119.5

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

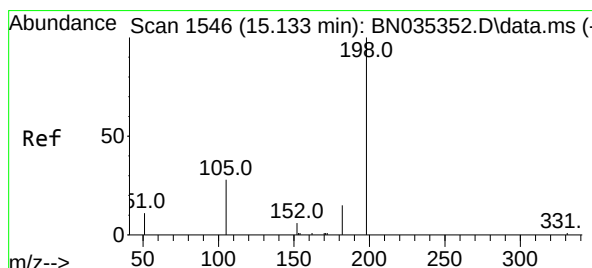
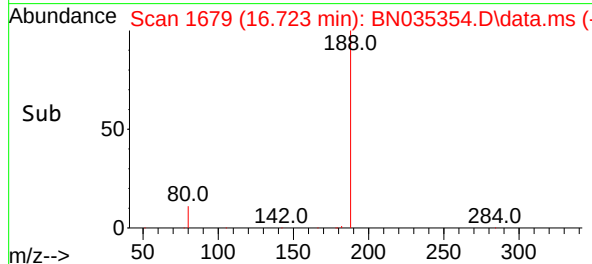
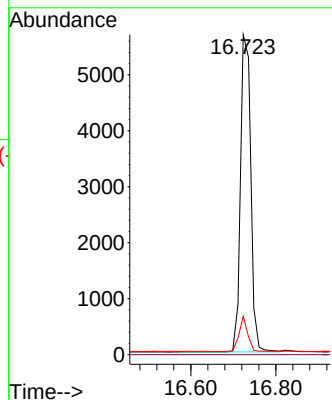
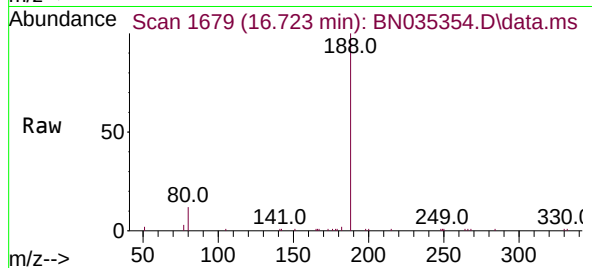
Tgt Ion:188 Resp: 9517

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.0 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.983 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.011 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

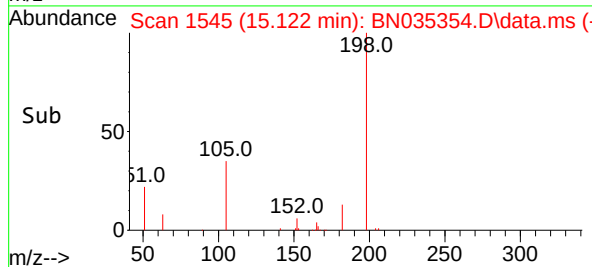
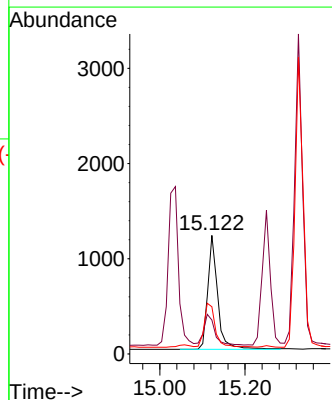
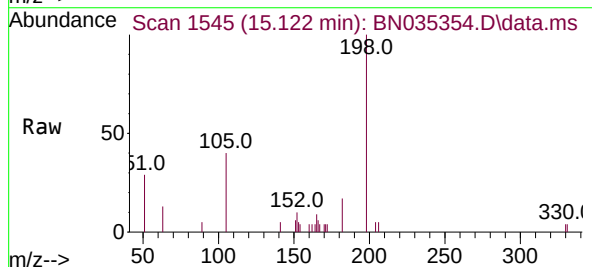
Tgt Ion:198 Resp: 1947

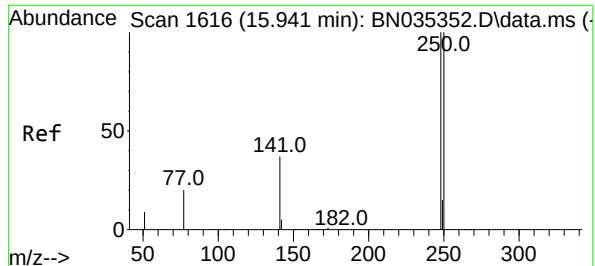
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

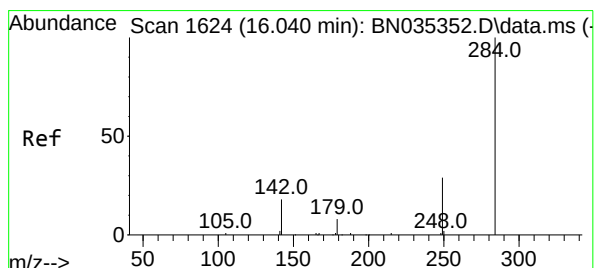
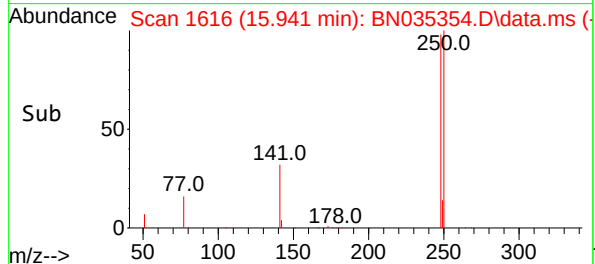
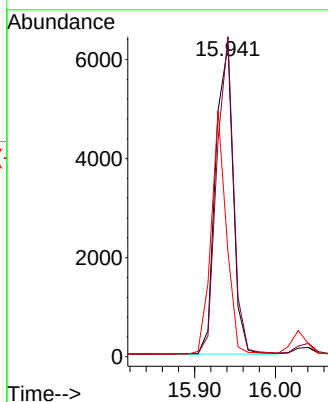
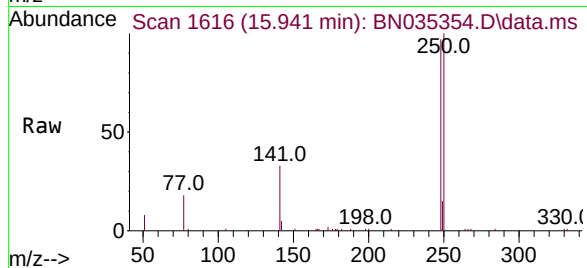




#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

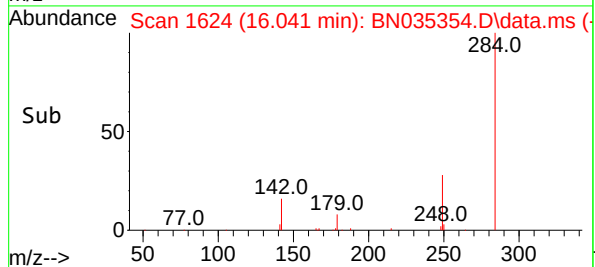
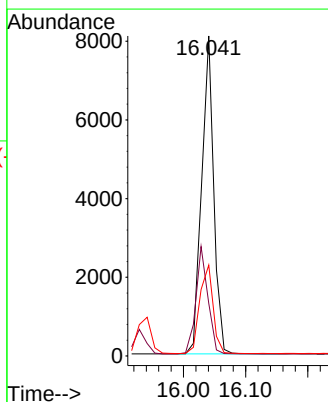
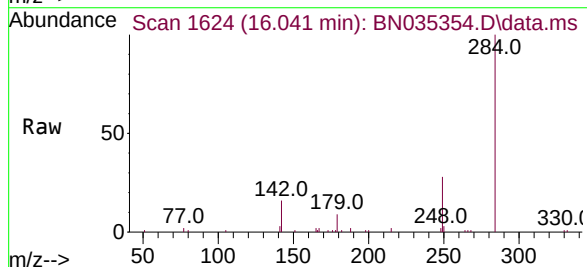
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

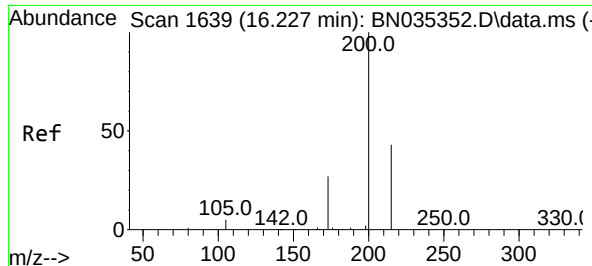
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.7	80.6	120.8
141	33.7	31.5	47.3



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

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

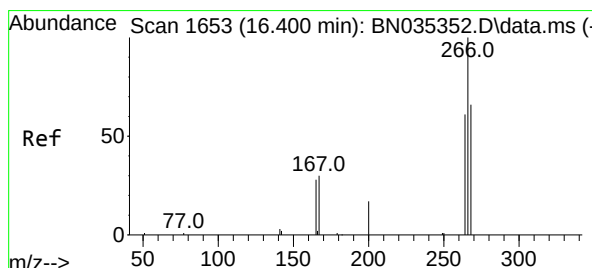
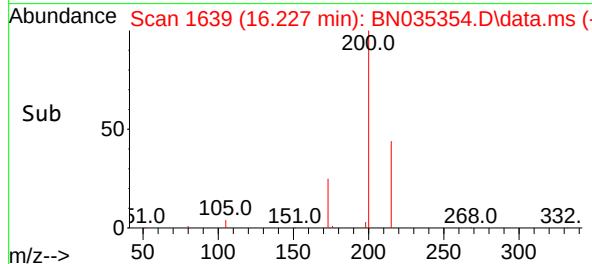
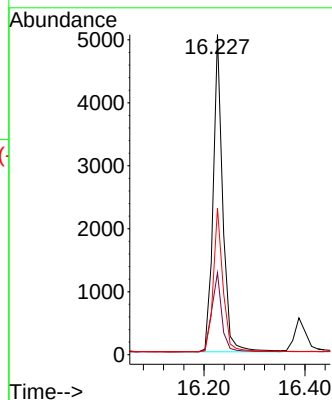
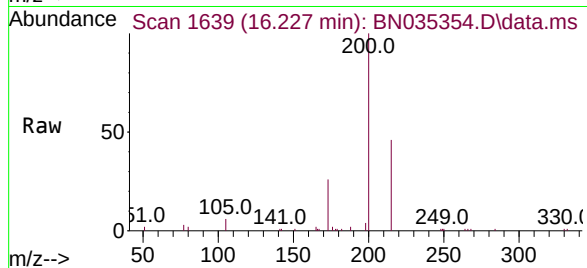




#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

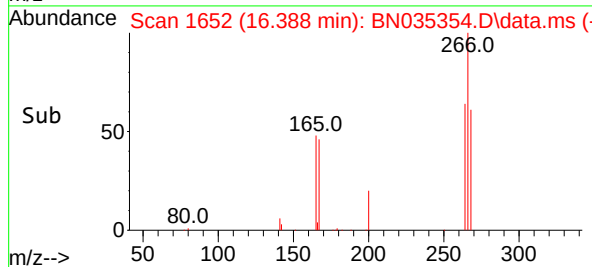
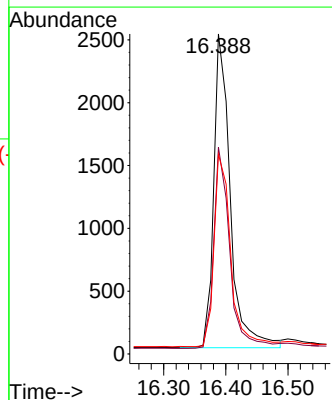
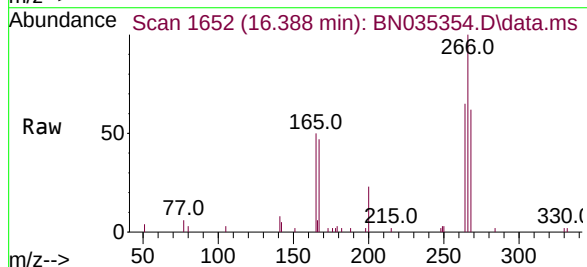
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

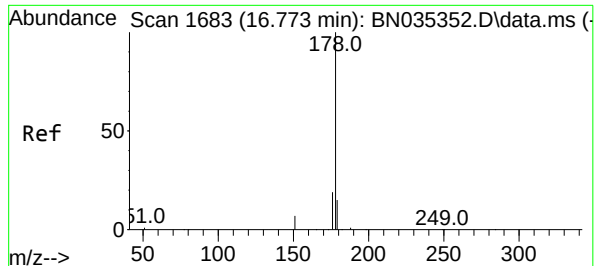
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.6	24.1	36.1
215	45.8	36.9	55.3



#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.8	42.3	63.5#
268	62.9	43.3	64.9

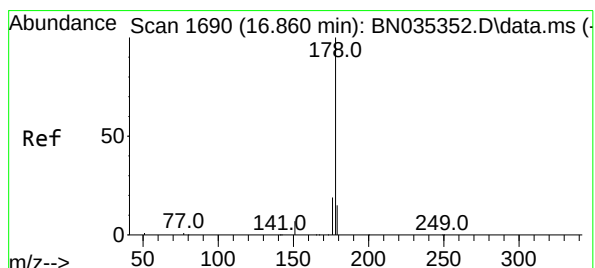
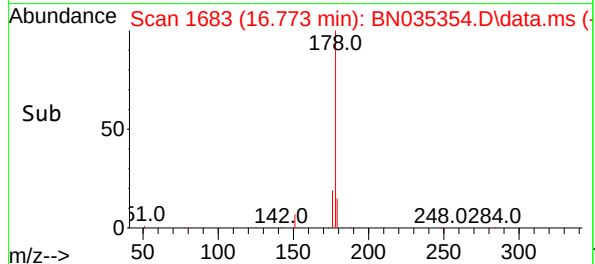
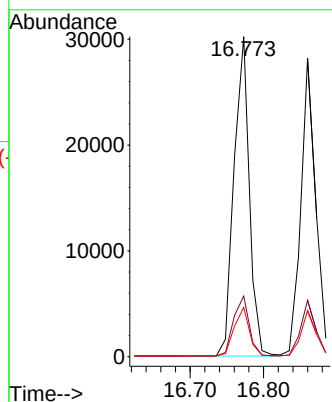
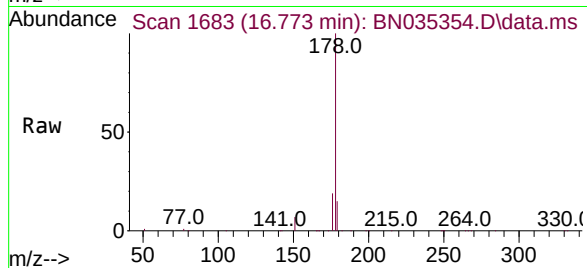




#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

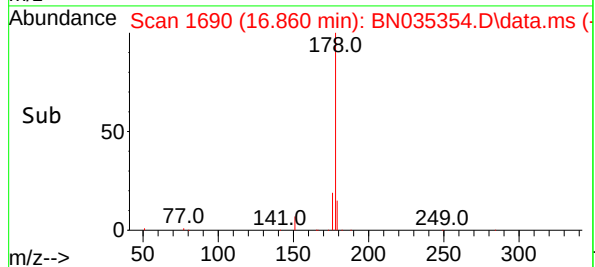
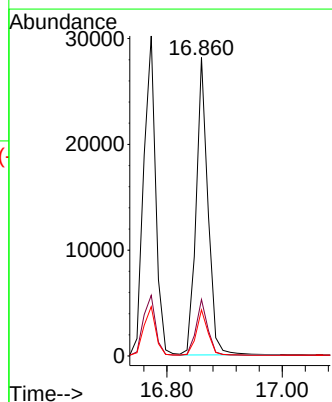
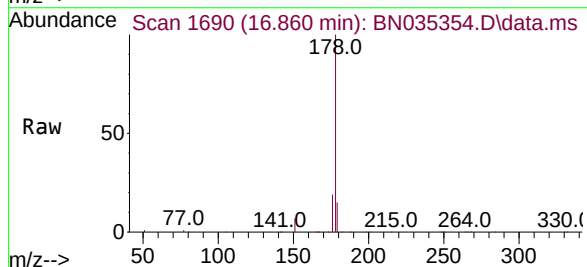
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

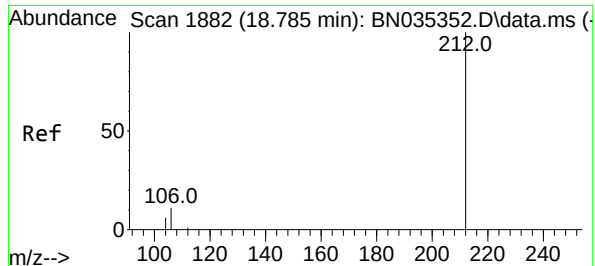
Tgt Ion:178 Resp: 43698
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.3 18.5



#26
Anthracene
Concen: 1.737 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:178 Resp: 39964
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 1.521 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

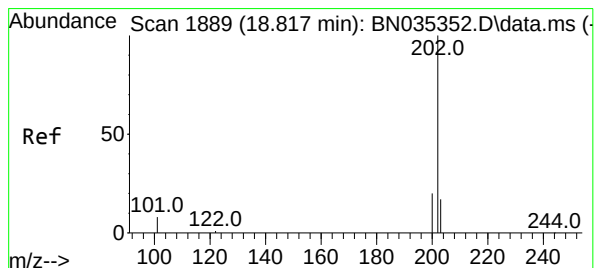
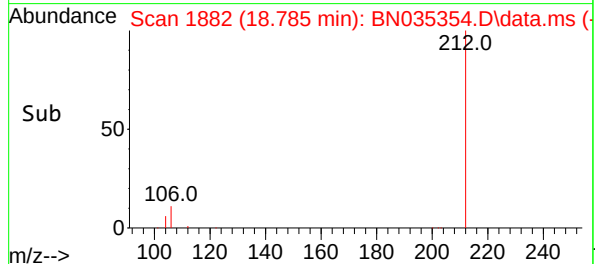
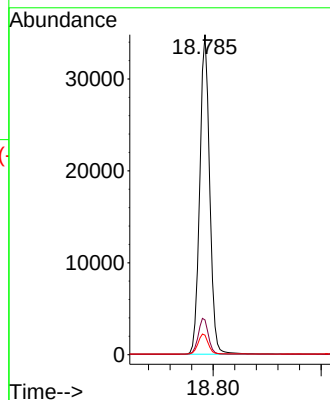
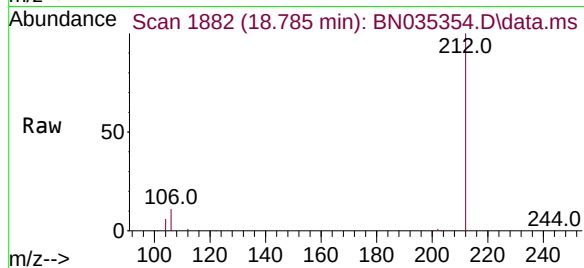
Tgt Ion:212 Resp: 44338

Ion Ratio Lower Upper

212 100

106 11.4 9.2 13.8

104 6.4 5.3 7.9



#28

Fluoranthene

Concen: 1.702 ng

RT: 18.813 min Scan# 1888

Delta R.T. -0.005 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

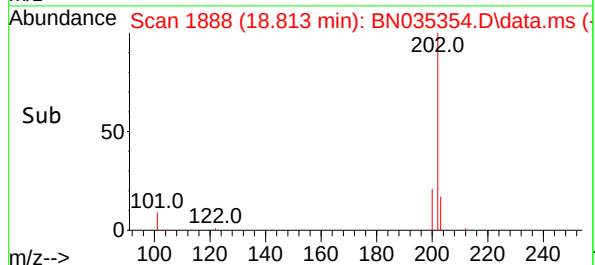
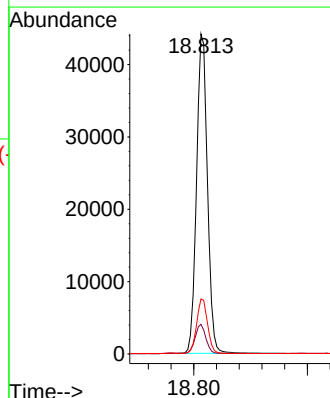
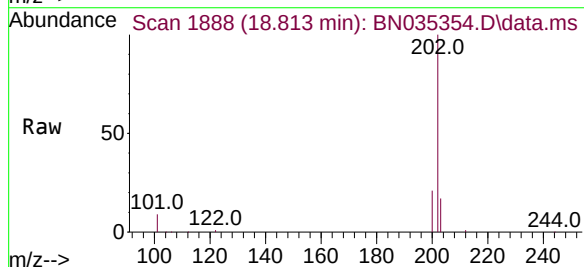
Tgt Ion:202 Resp: 58605

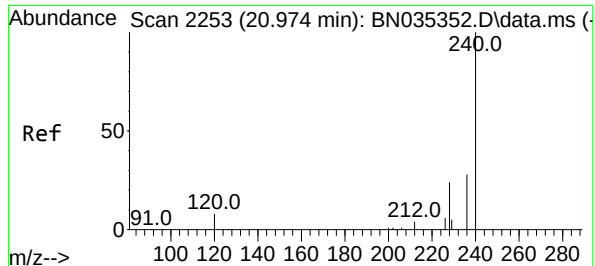
Ion Ratio Lower Upper

202 100

101 9.2 7.4 11.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

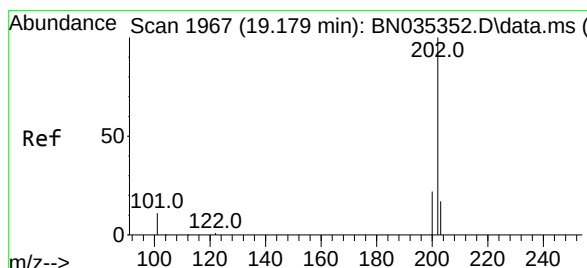
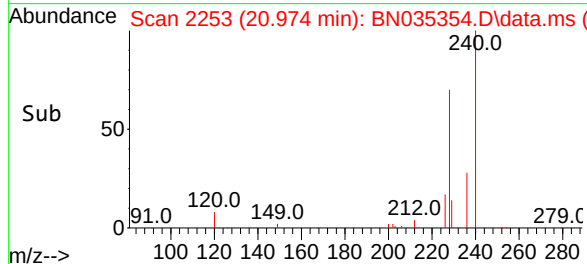
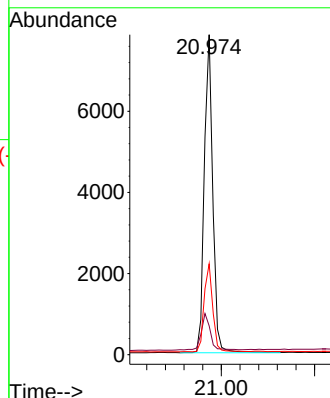
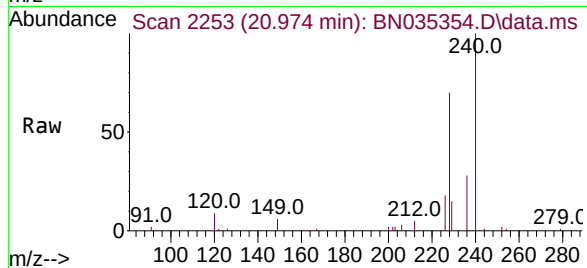
Tgt Ion:240 Resp: 9905

Ion Ratio Lower Upper

240 100

120 9.0 7.9 11.9

236 28.4 22.9 34.3



#30

Pyrene

Concen: 1.824 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

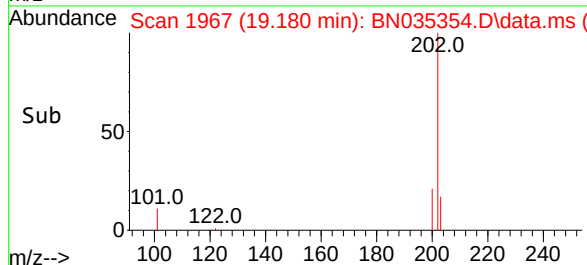
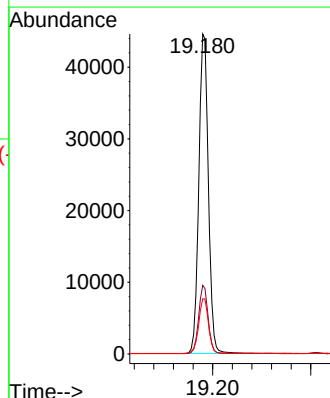
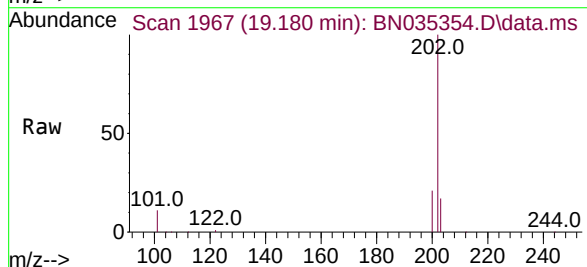
Tgt Ion:202 Resp: 60164

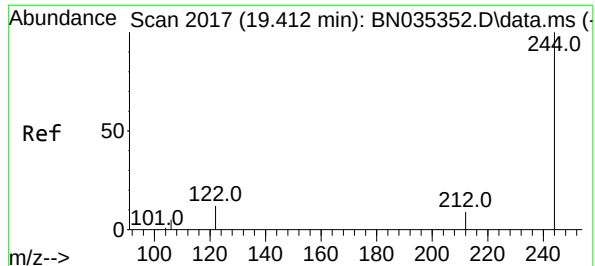
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5

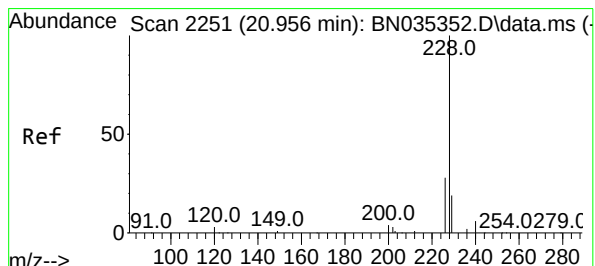
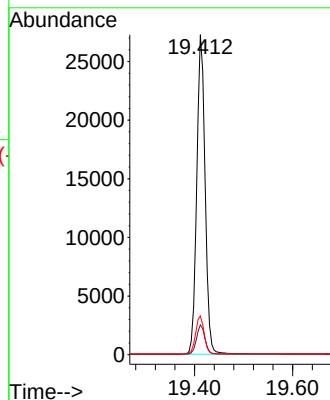
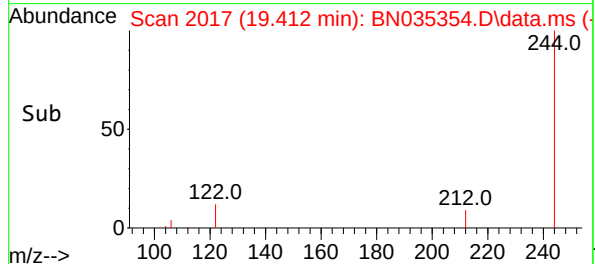
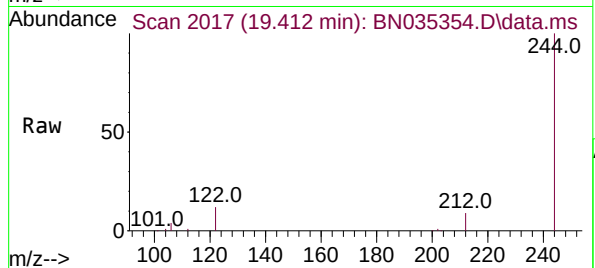




#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

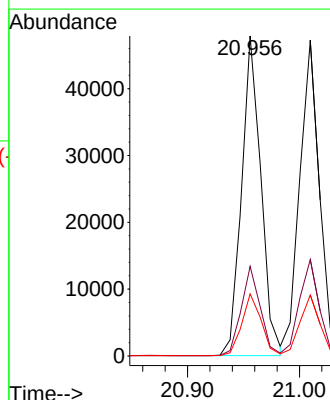
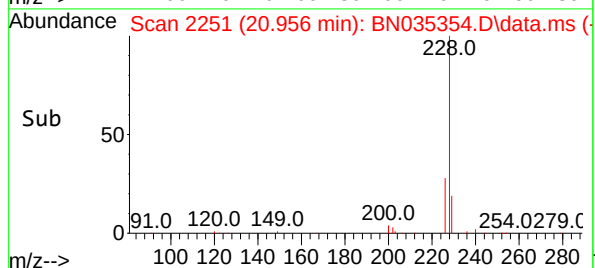
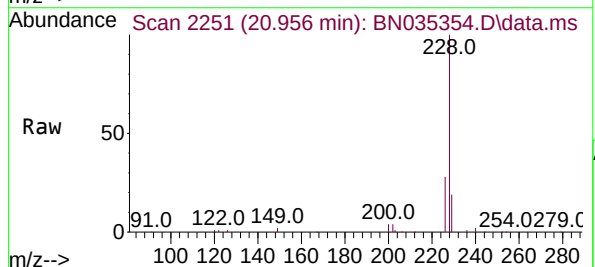
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

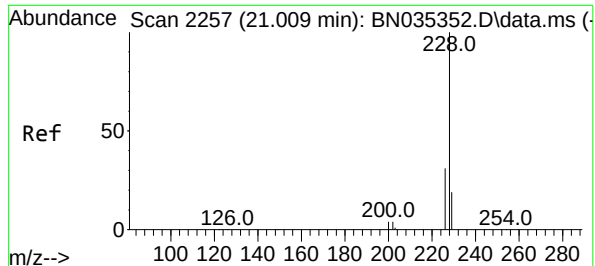
Tgt Ion:244 Resp: 32174
Ion Ratio Lower Upper
244 100
212 9.3 8.1 12.1
122 12.1 10.3 15.5



#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.4 15.8 23.8

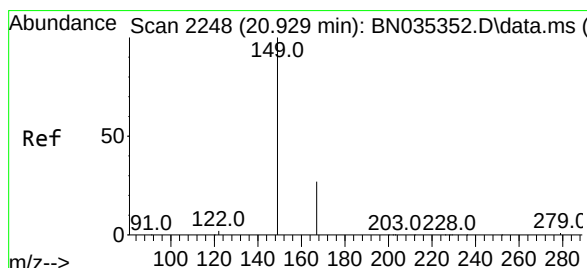
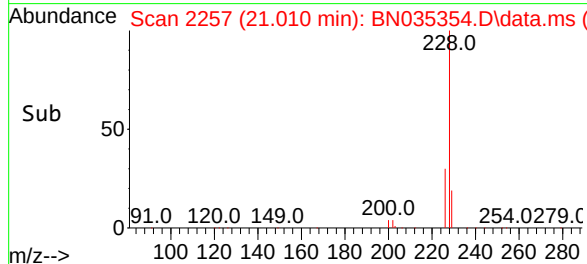
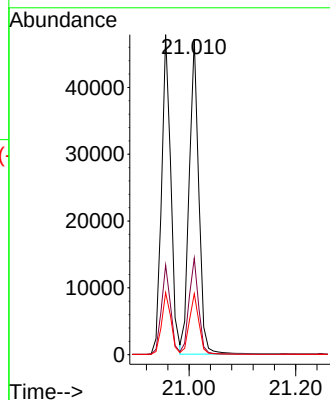
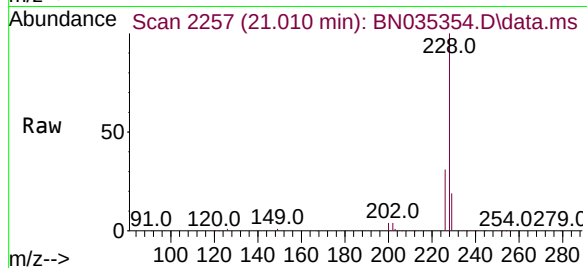




#33
Chrysene
Concen: 1.725 ng
RT: 21.010 min Scan# 210
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

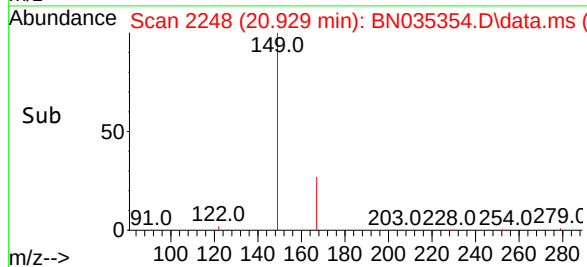
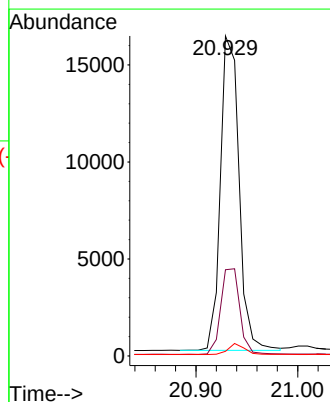
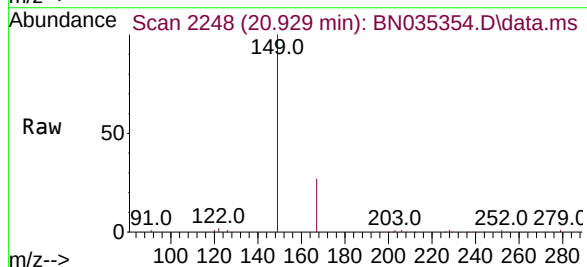
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

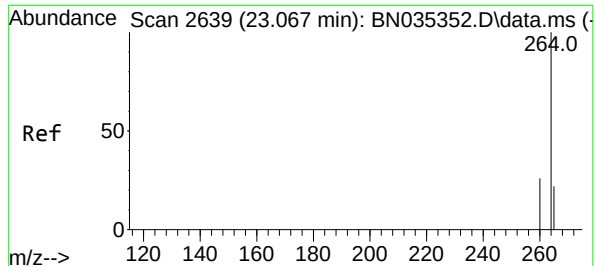
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.3	15.9	23.9



#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	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

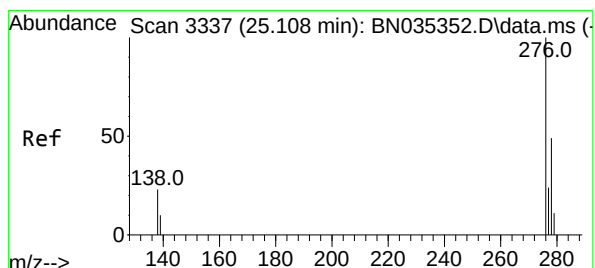
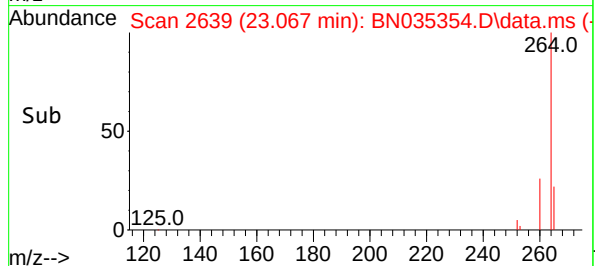
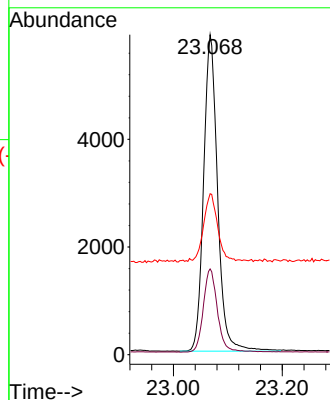
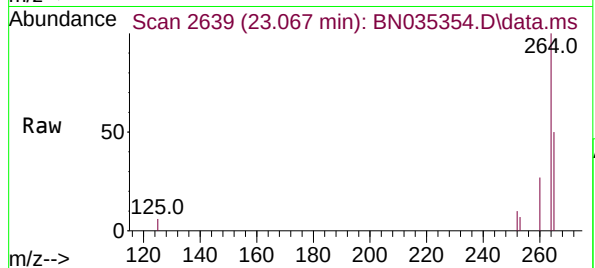
Tgt Ion:264 Resp: 10469

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

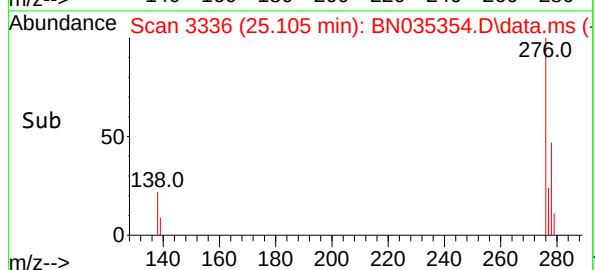
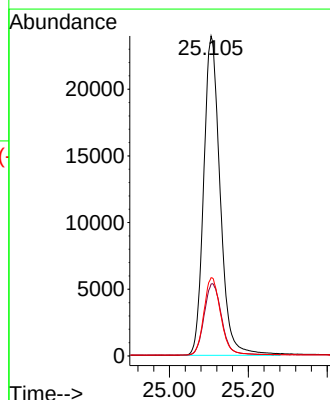
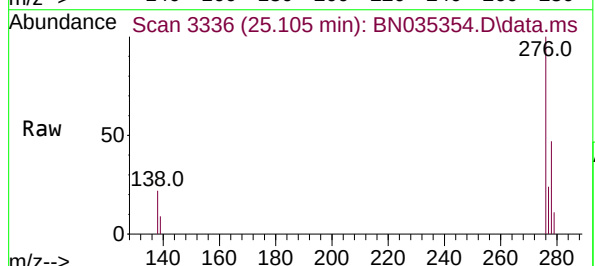
Tgt Ion:276 Resp: 69517

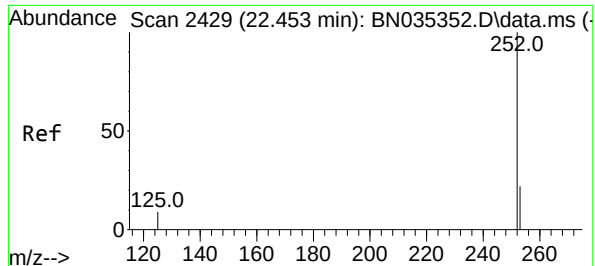
Ion Ratio Lower Upper

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

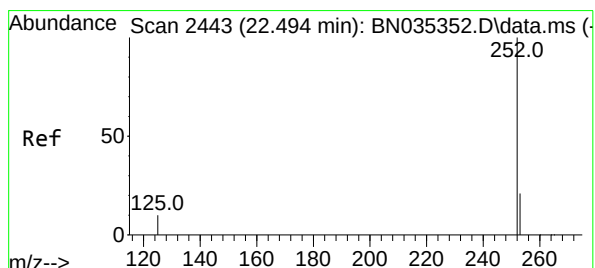
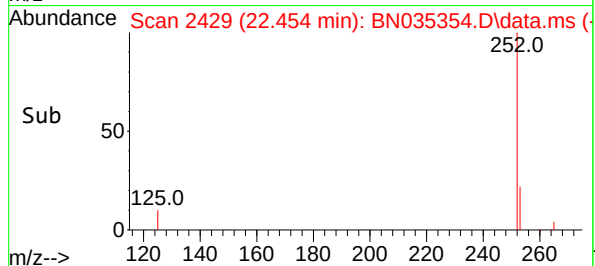
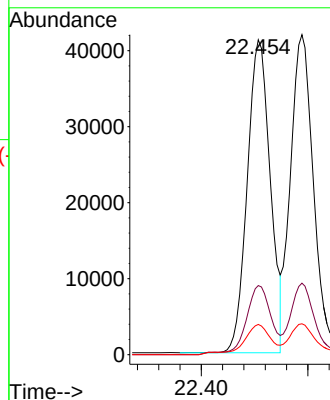
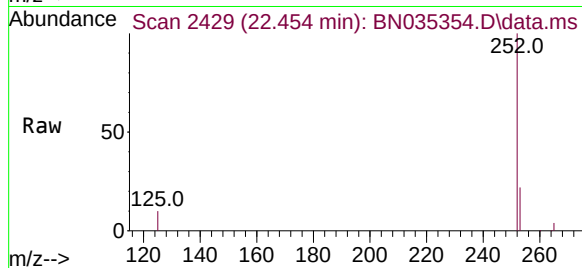
Tgt Ion:252 Resp: 76506

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

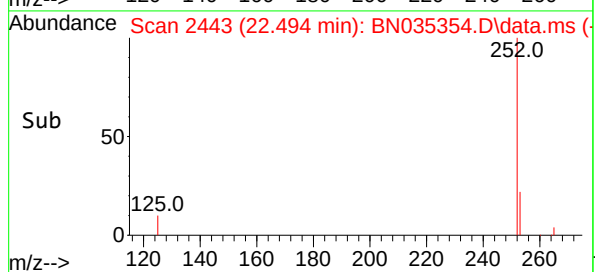
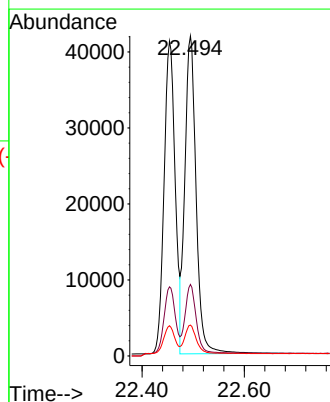
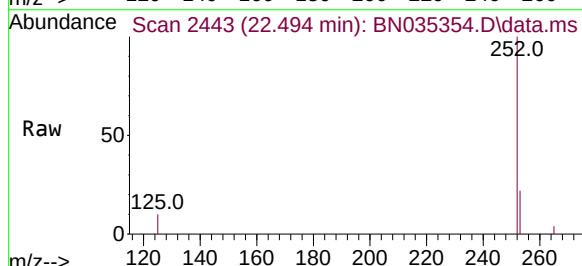
Tgt Ion:252 Resp: 63925

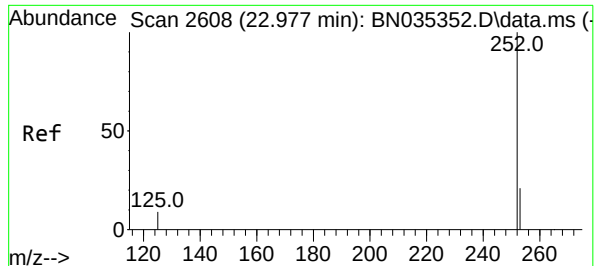
Ion Ratio Lower Upper

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

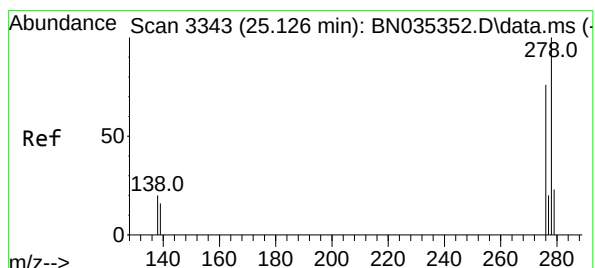
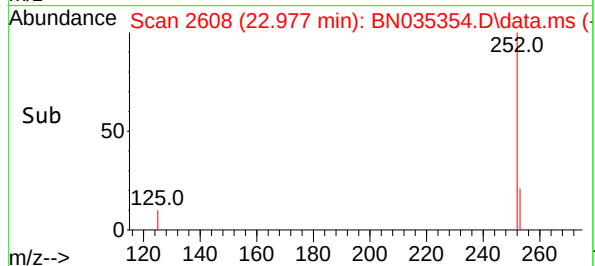
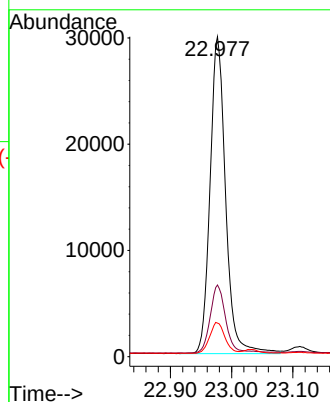
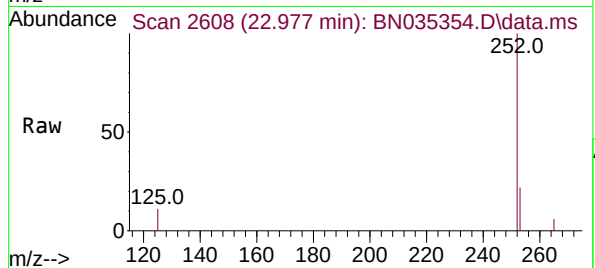
Instrument :

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

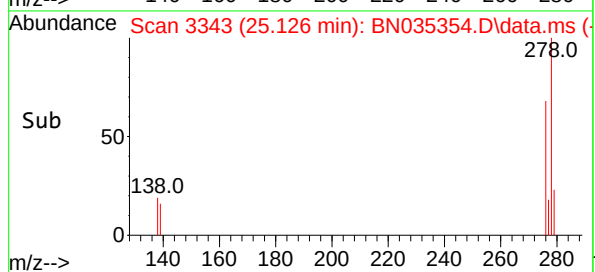
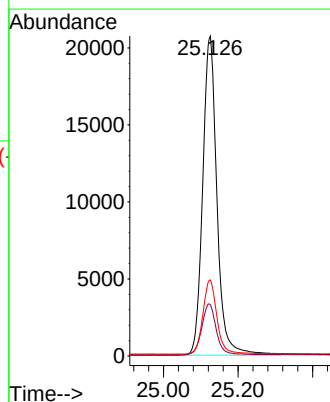
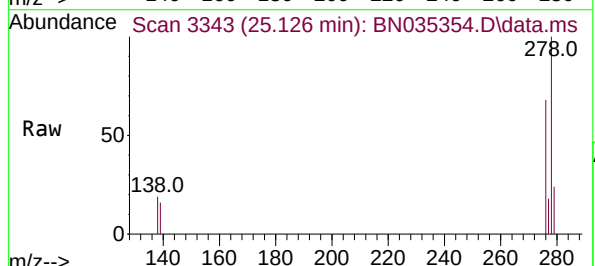
RT: 25.126 min Scan# 3343

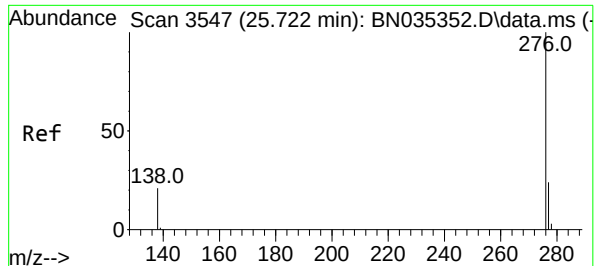
Delta R.T. 0.000 min

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

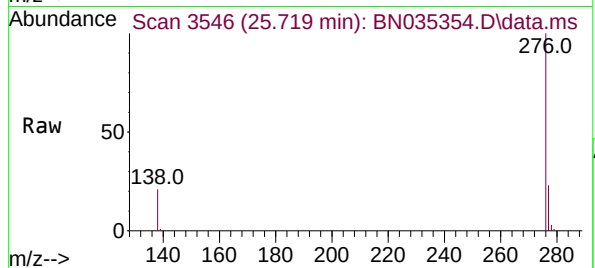
Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



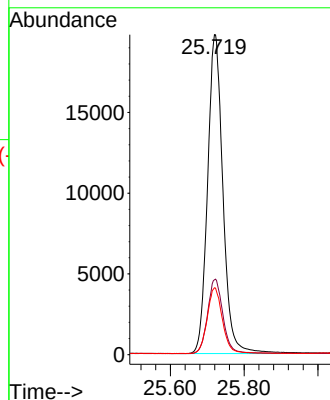
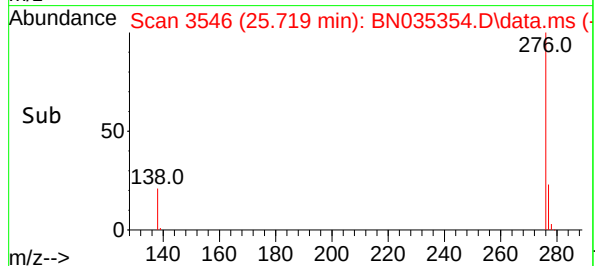
Tgt Ion:276 Resp: 56947

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

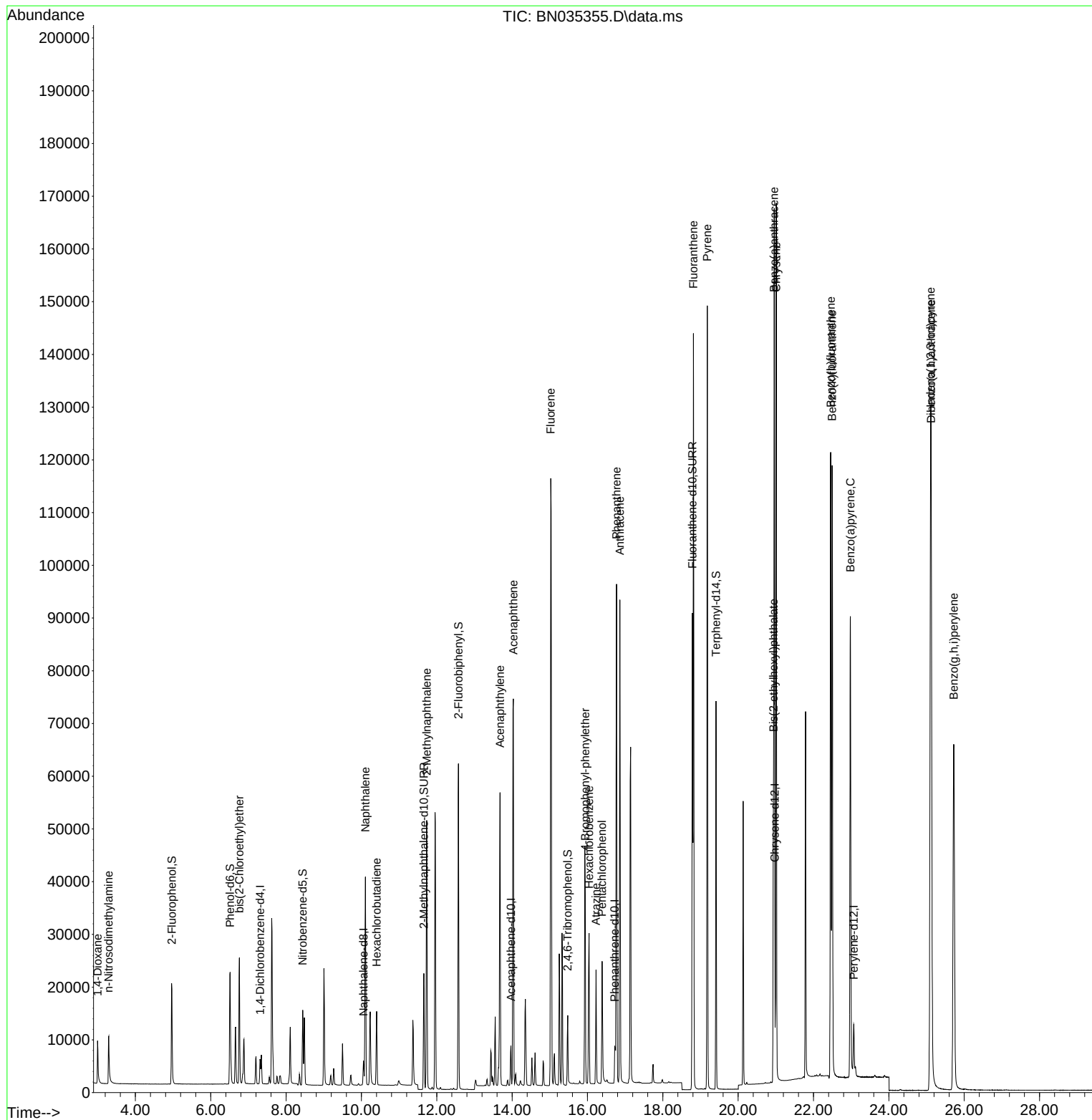
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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						
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

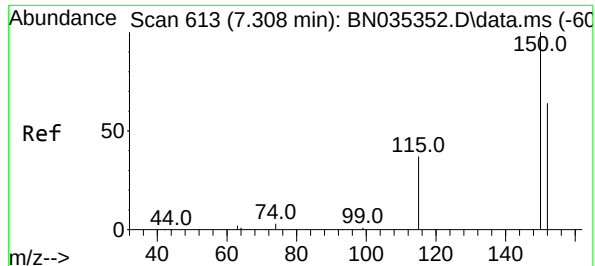
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

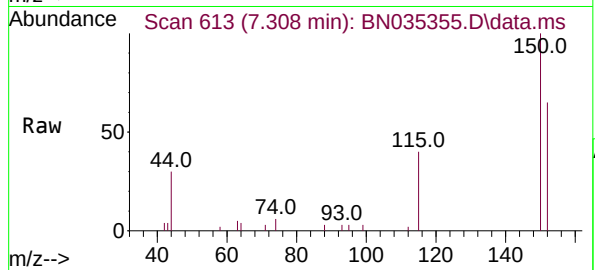
Quant Time: Nov 27 22:53:46 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



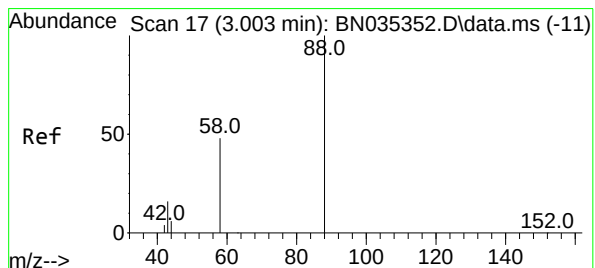
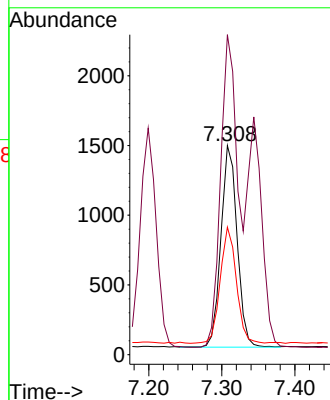
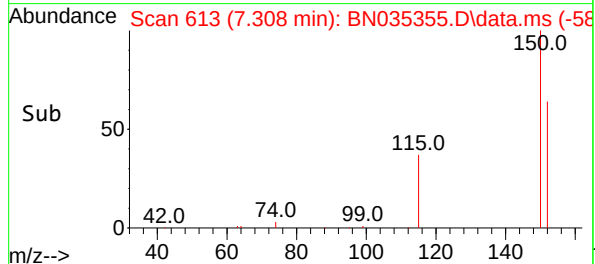


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

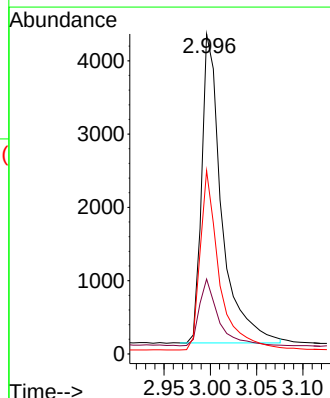
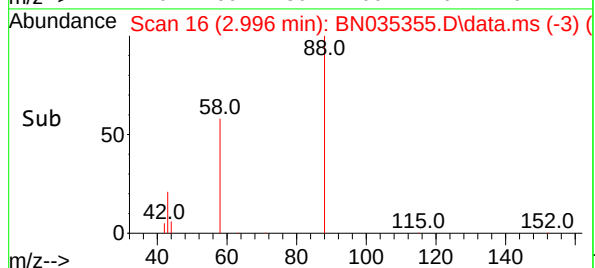
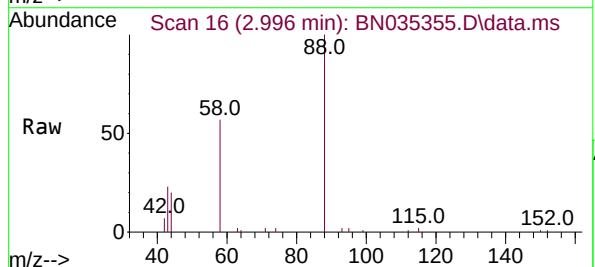


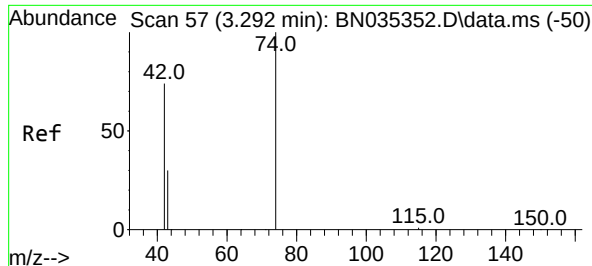
Tgt Ion:152 Resp: 2226
Ion Ratio Lower Upper
152 100
150 153.0 124.0 186.0
115 61.0 49.6 74.4



#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

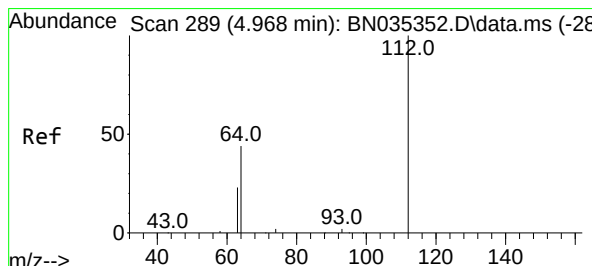
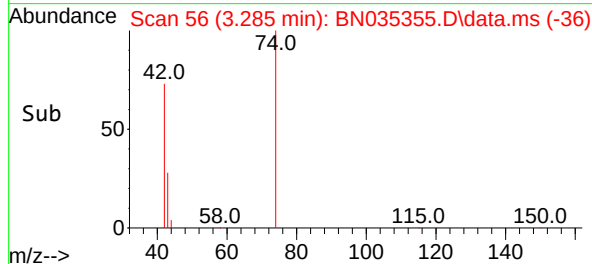
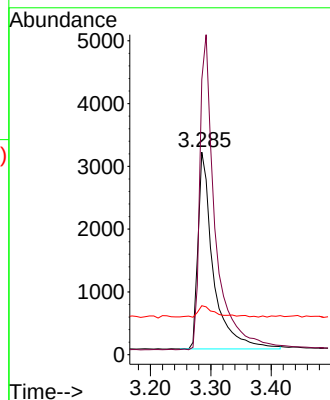
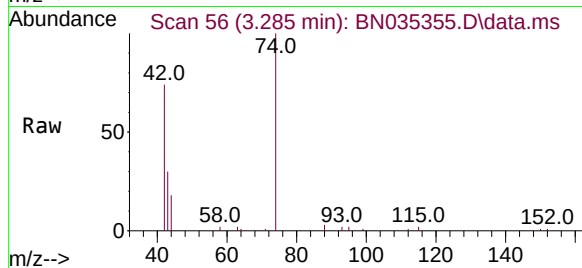




#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 57
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

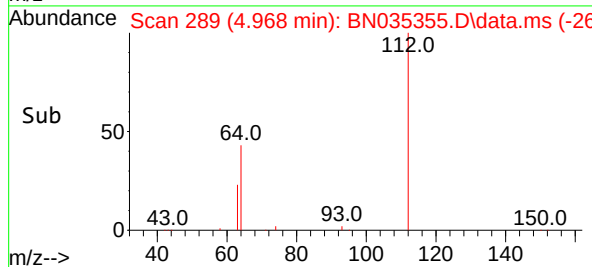
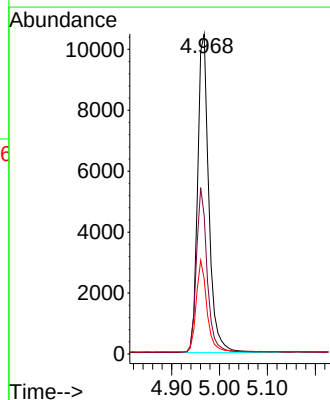
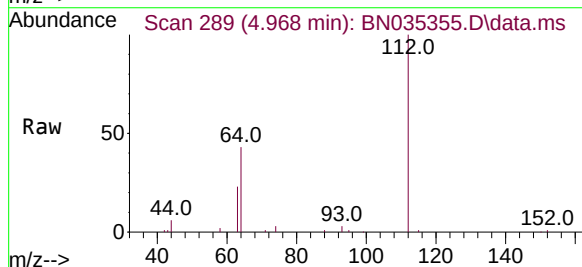
Instrument :
BNA_N
ClientSampleId :
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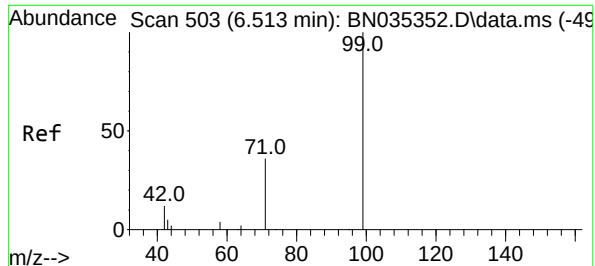
Tgt Ion: 42 Resp: 5524
Ion Ratio Lower Upper
42 100
74 162.0 124.9 187.3
44 6.4 2.2 3.4#



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

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

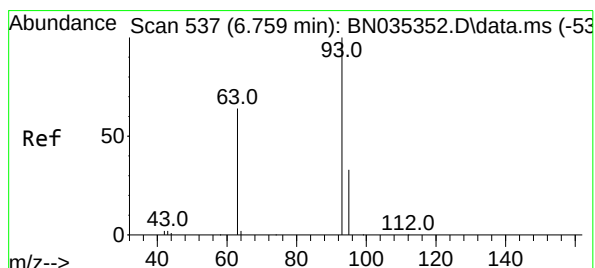
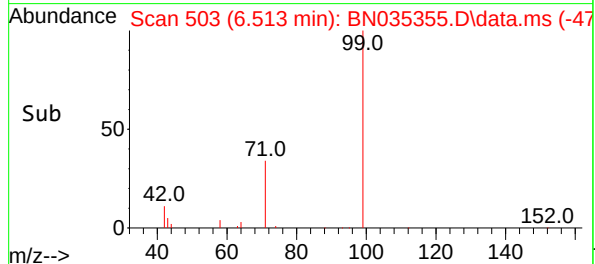
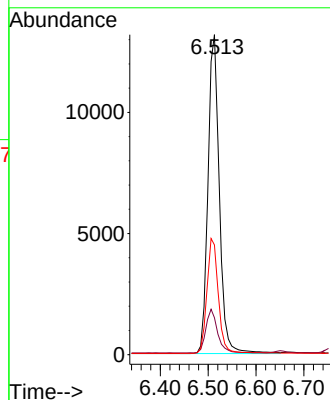
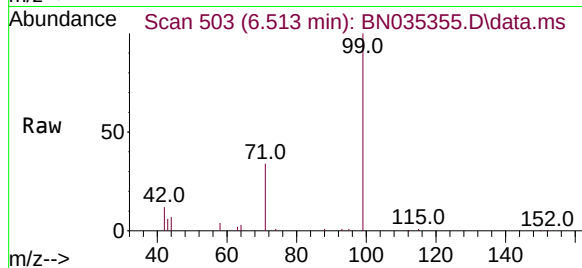




#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

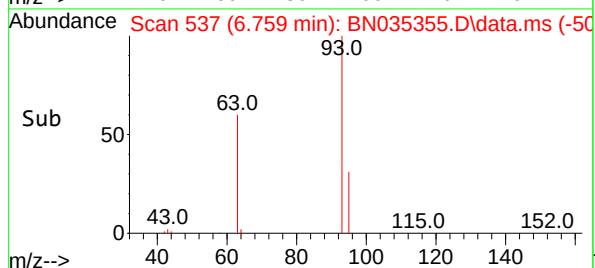
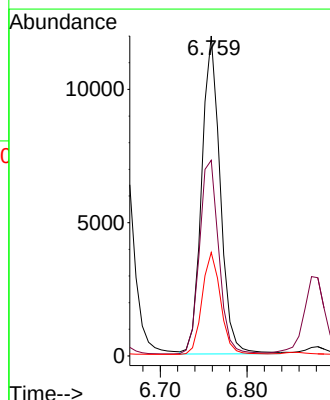
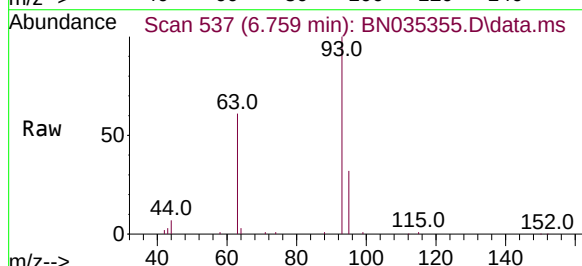
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

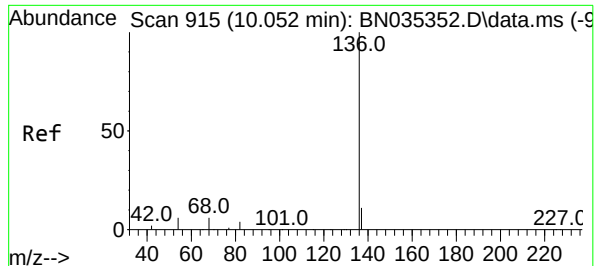
Tgt Ion:	99	Resp:	21633
Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.5	29.3	43.9



#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

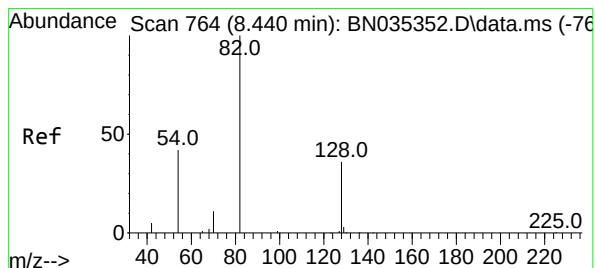
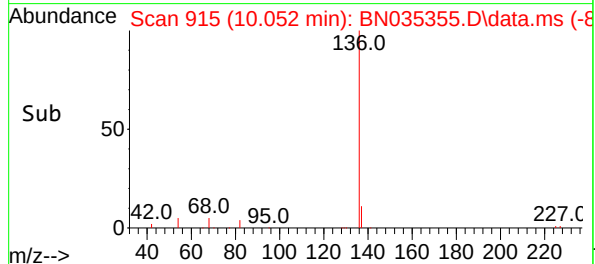
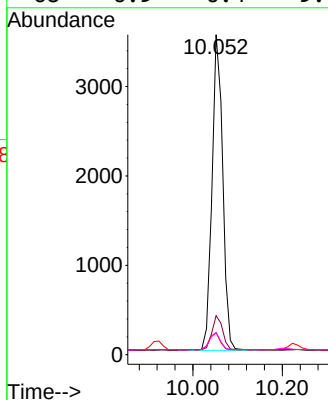
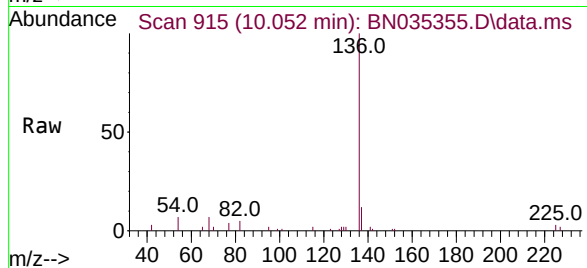




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

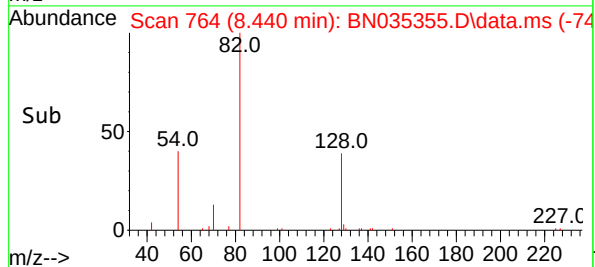
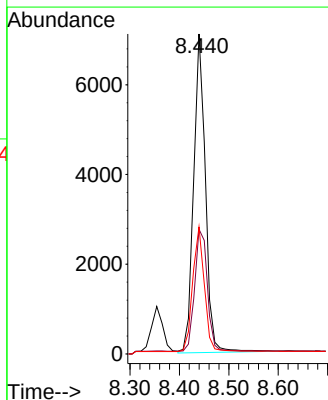
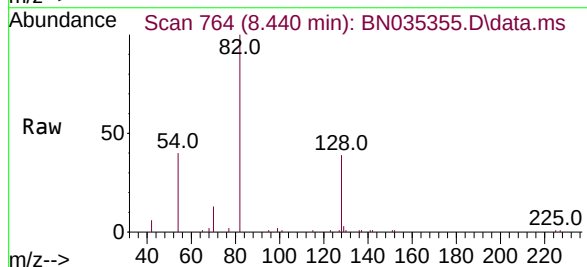
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ClientSampleId :
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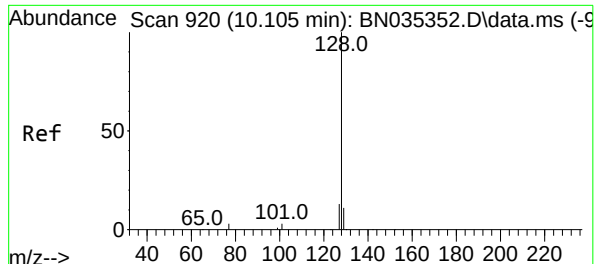
Tgt Ion:	136	Resp:	5857
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6



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

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





#9

Naphthalene

Concen: 3.214 ng

RT: 10.105 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

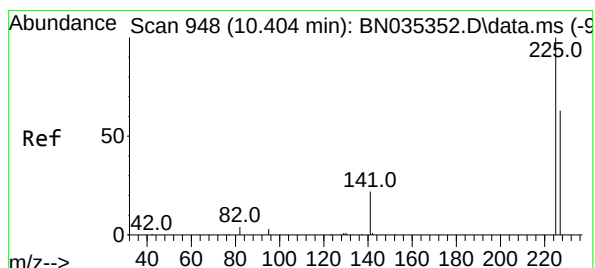
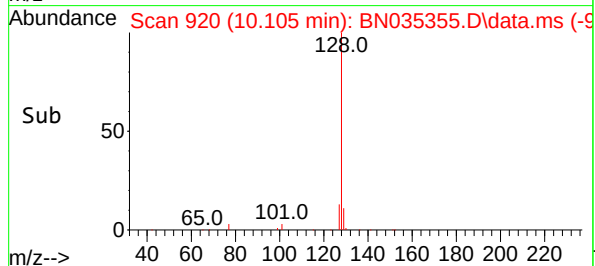
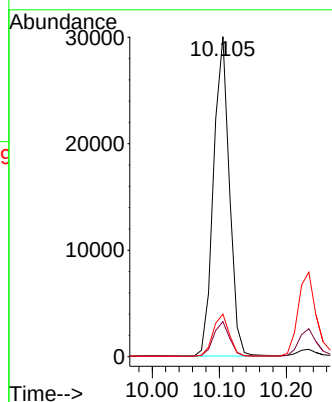
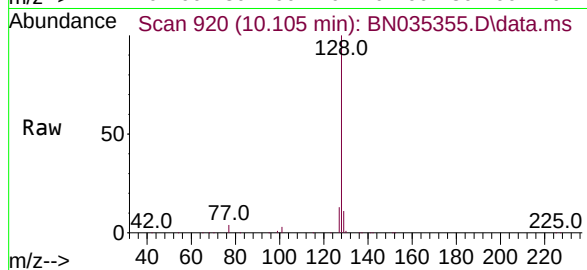
Tgt Ion:128 Resp: 49151

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

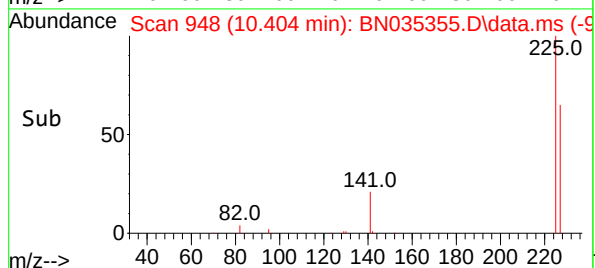
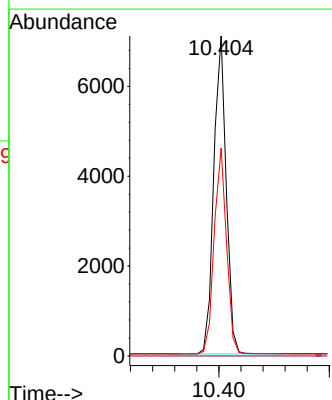
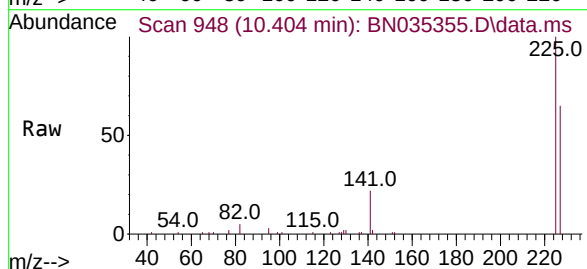
Tgt Ion:225 Resp: 11039

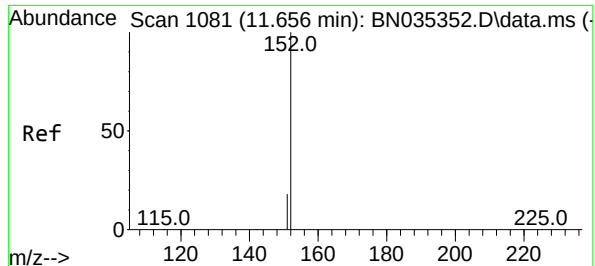
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.4 51.3 76.9

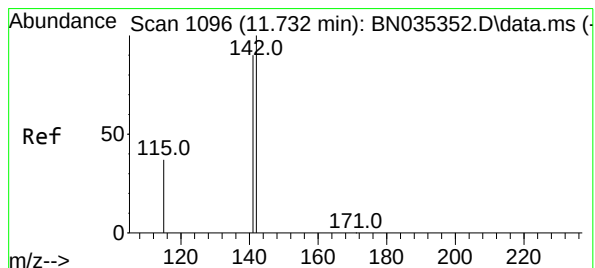
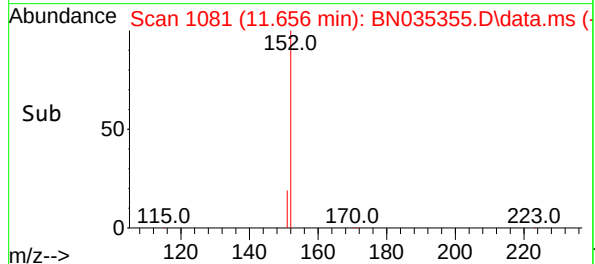
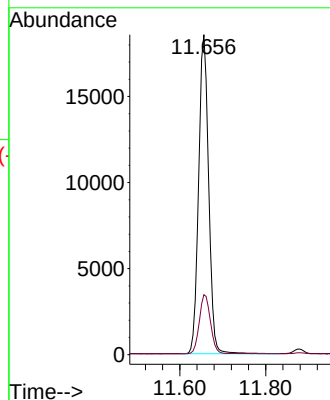
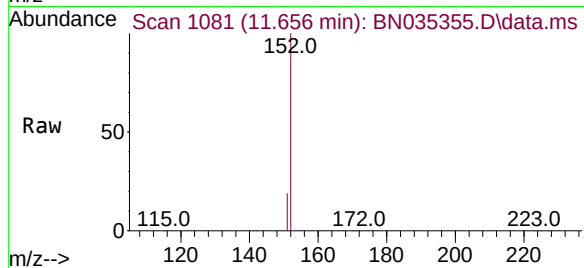




#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

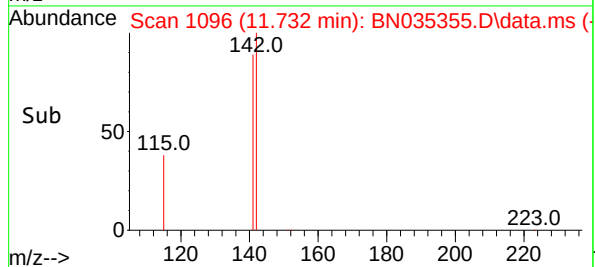
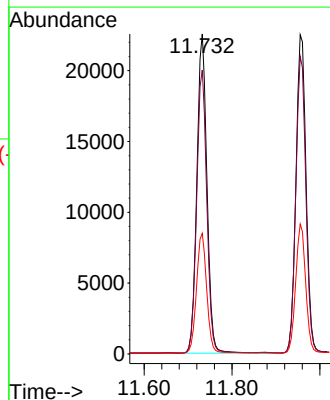
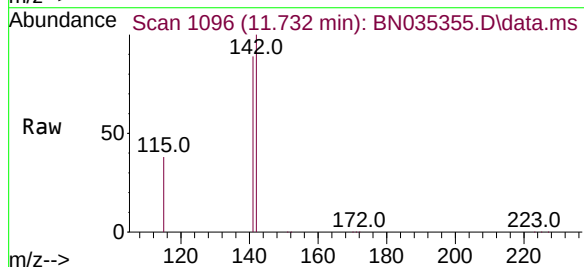
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

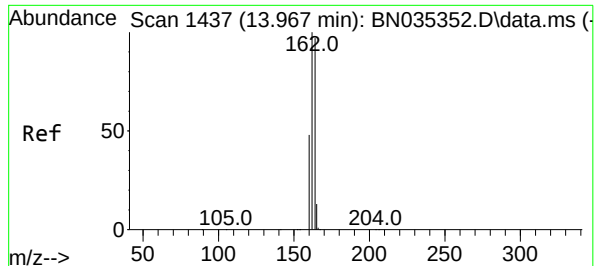
Tgt Ion:152 Resp: 29957
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#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

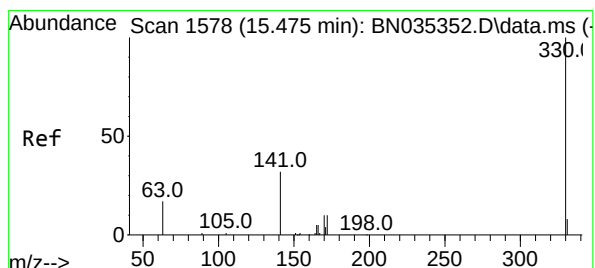
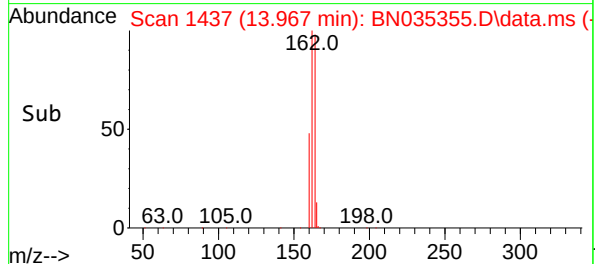
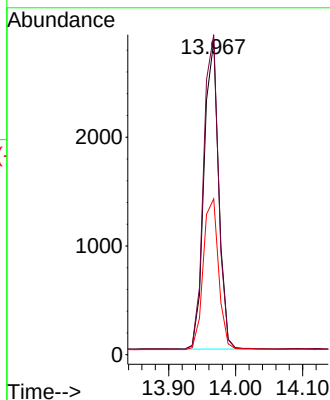
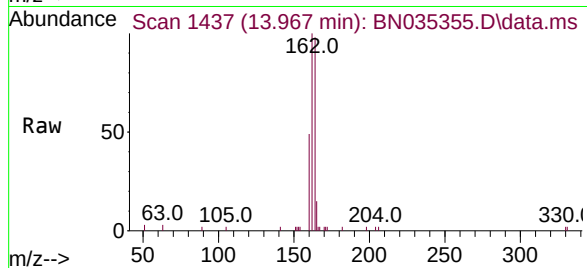




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

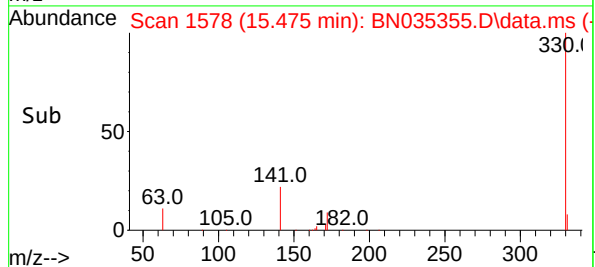
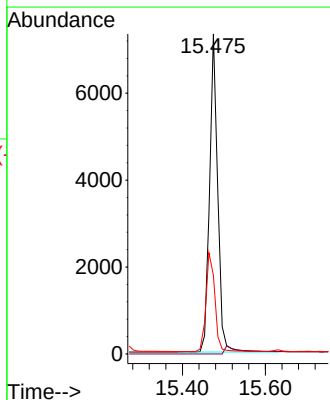
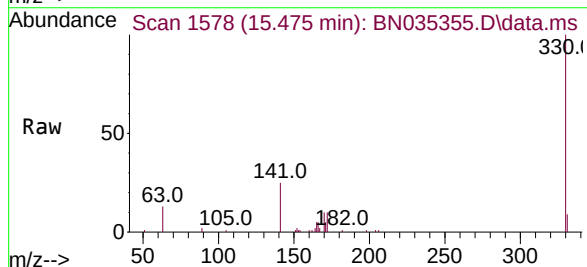
Instrument :
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ClientSampleId :
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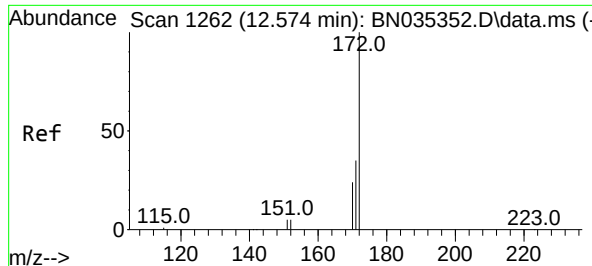
Tgt Ion:164 Resp: 4307
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 49.7 40.1 60.1



#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# 11

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

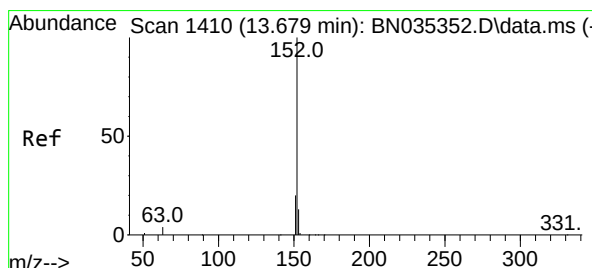
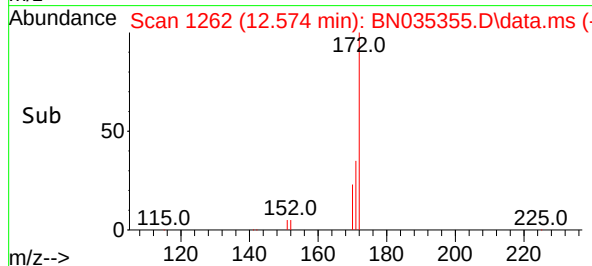
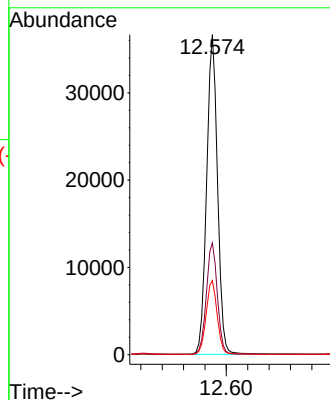
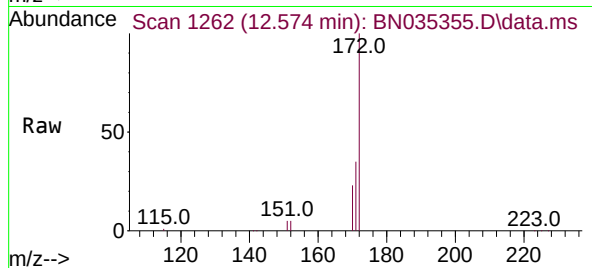
Tgt Ion:172 Resp: 52048

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

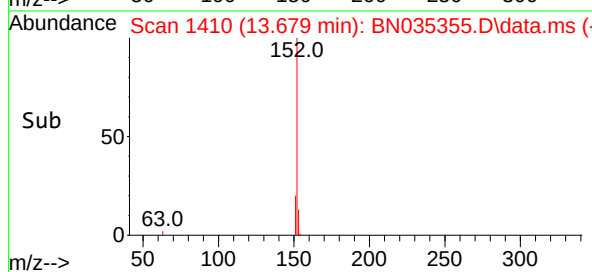
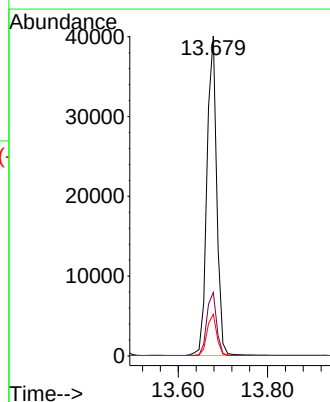
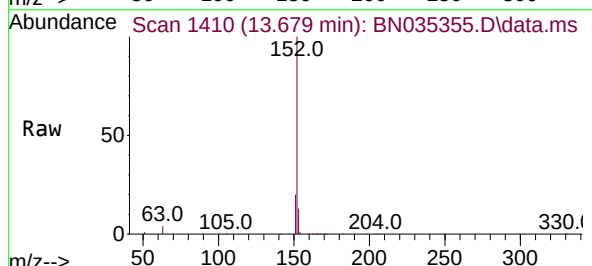
Tgt Ion:152 Resp: 60734

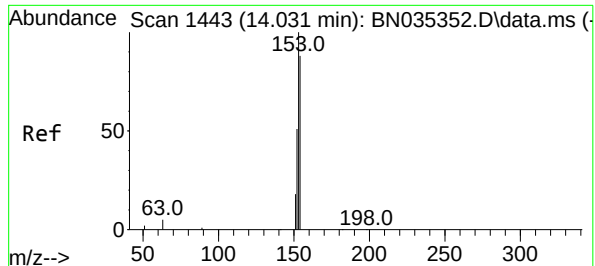
Ion Ratio Lower Upper

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

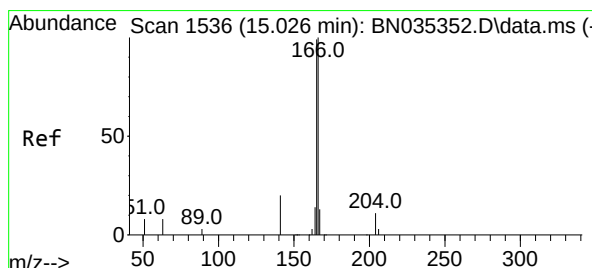
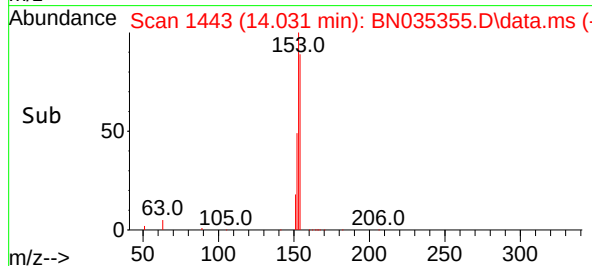
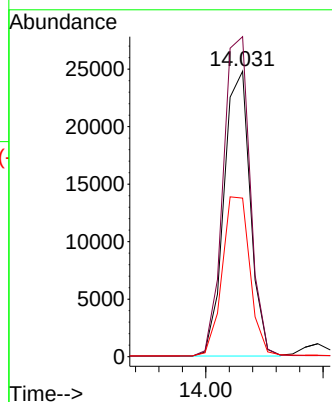
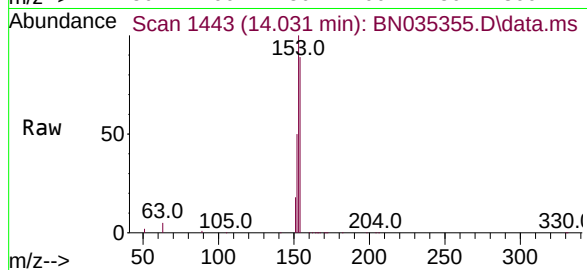
Tgt Ion:154 Resp: 38676

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

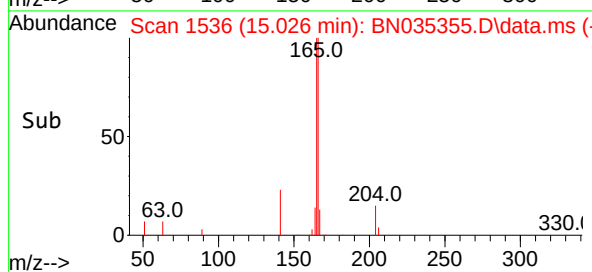
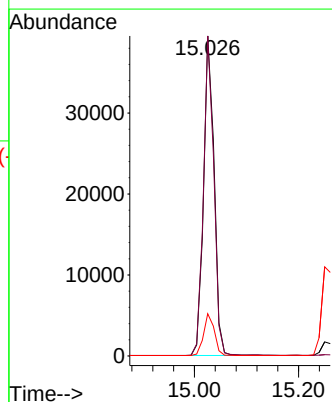
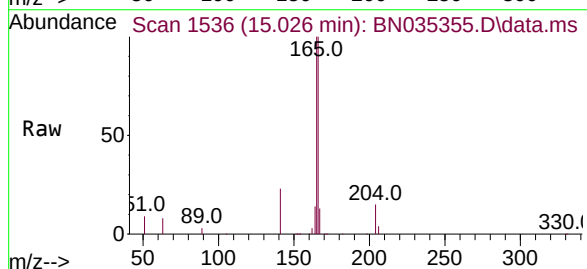
Tgt Ion:166 Resp: 55613

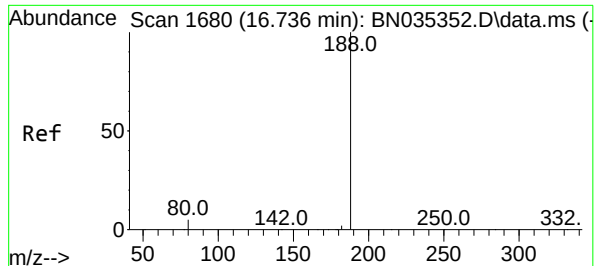
Ion Ratio Lower Upper

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

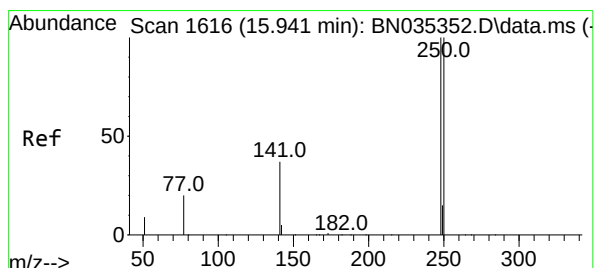
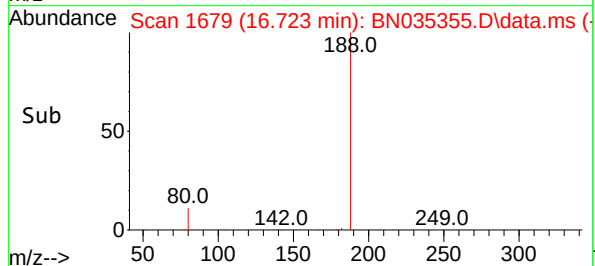
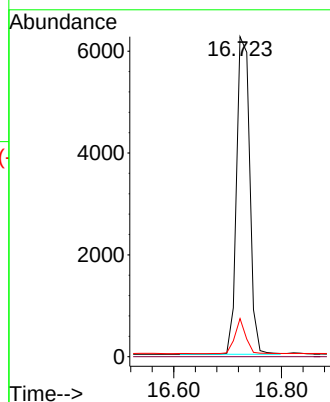
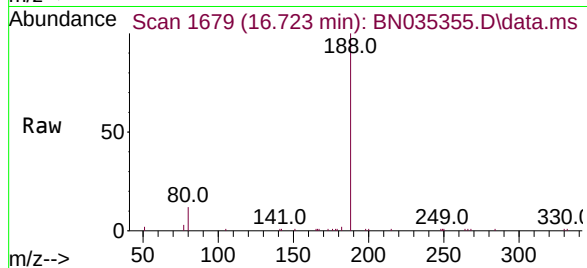
Tgt Ion:188 Resp: 10513

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

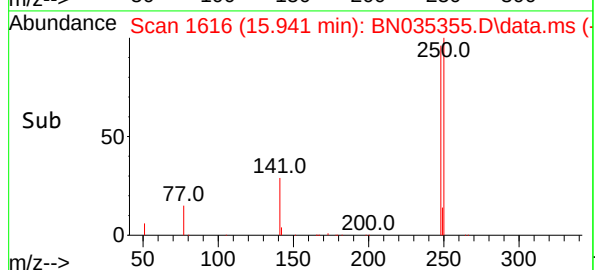
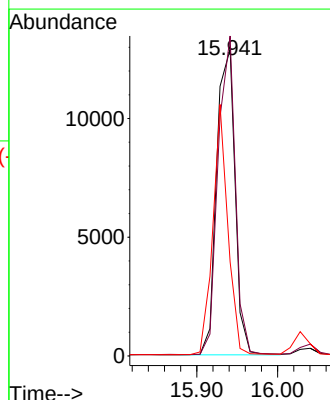
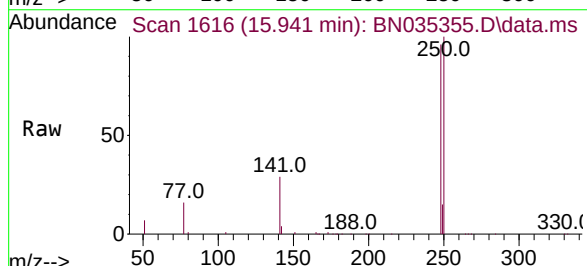
Tgt Ion:248 Resp: 20321

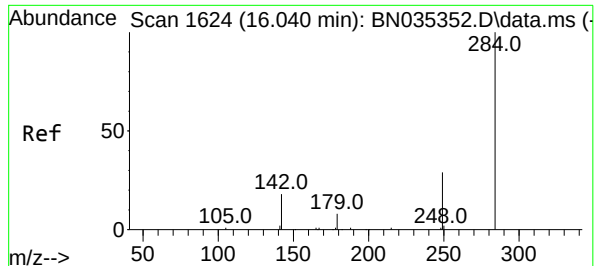
Ion Ratio Lower Upper

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

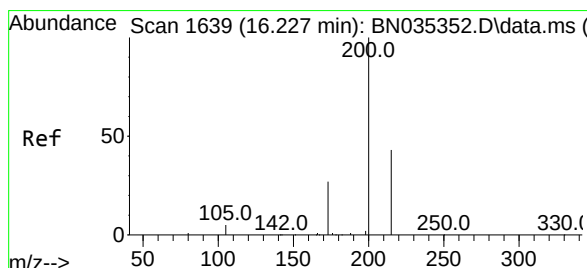
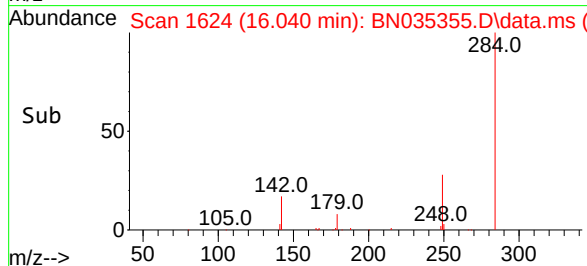
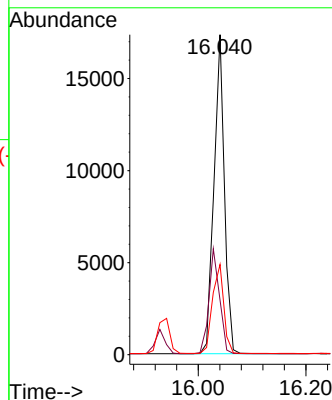
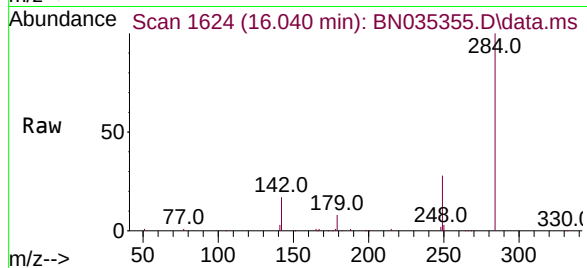
Tgt Ion:284 Resp: 23349

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

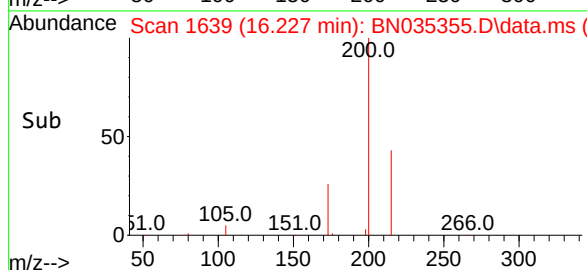
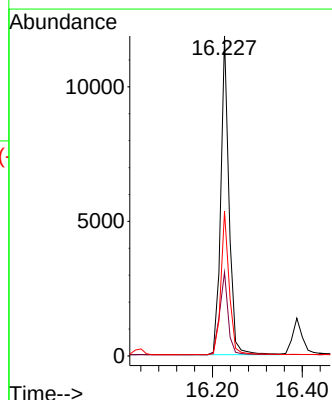
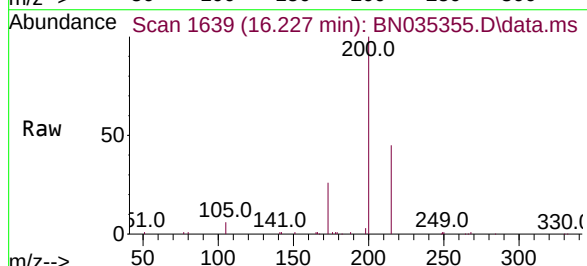
Tgt Ion:200 Resp: 15072

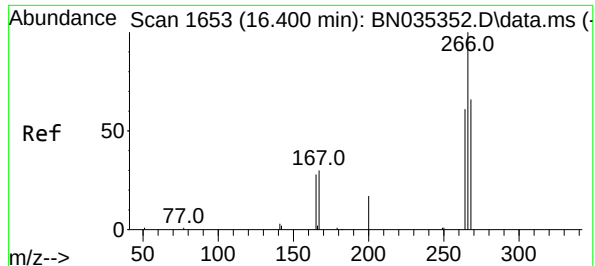
Ion Ratio Lower Upper

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

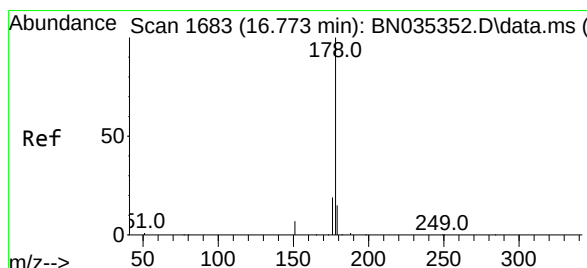
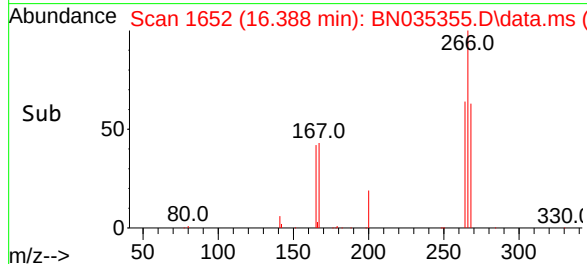
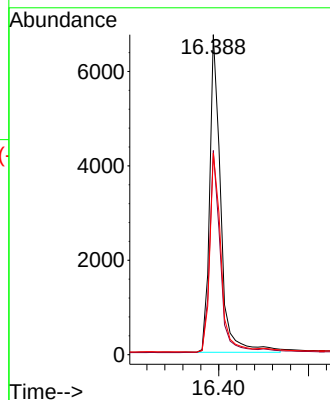
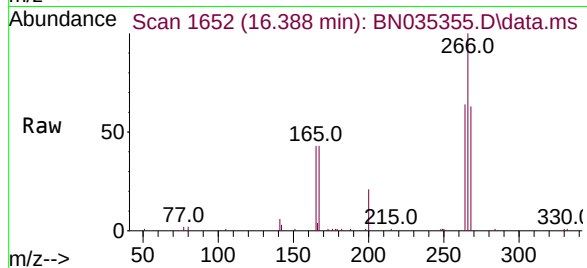
Tgt Ion:266 Resp: 11439

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

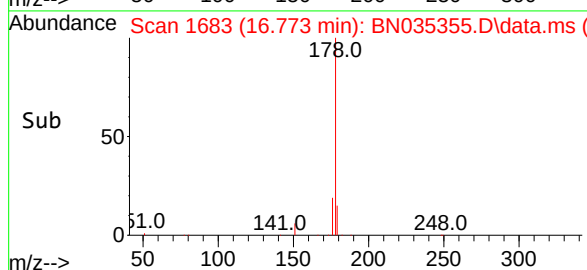
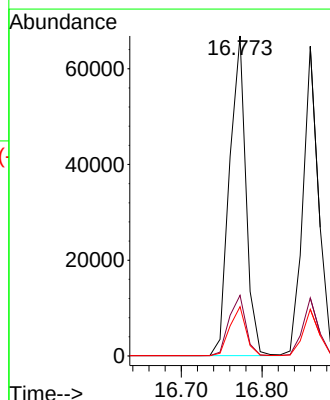
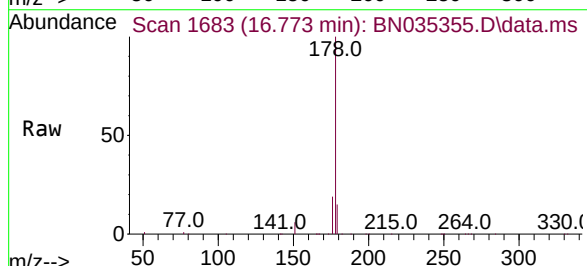
Tgt Ion:178 Resp: 94243

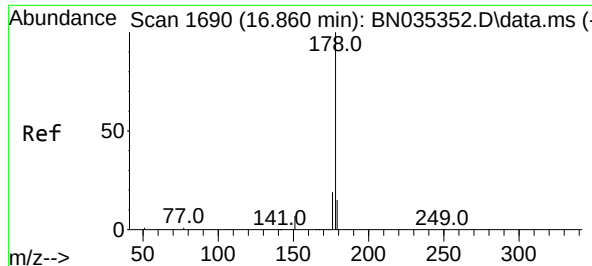
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.3 12.3 18.5

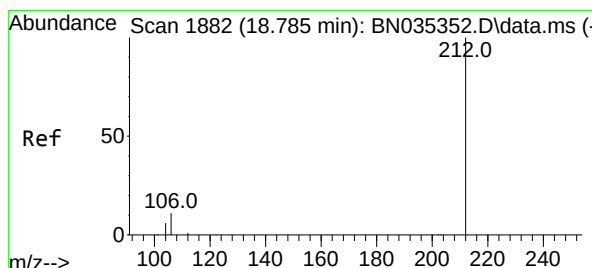
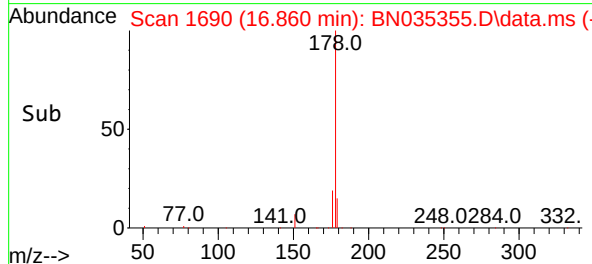
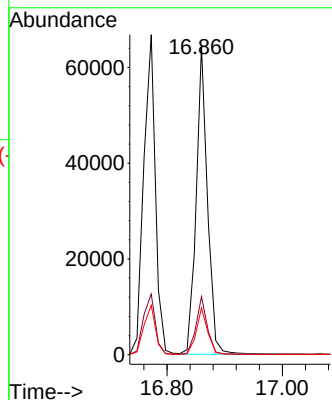
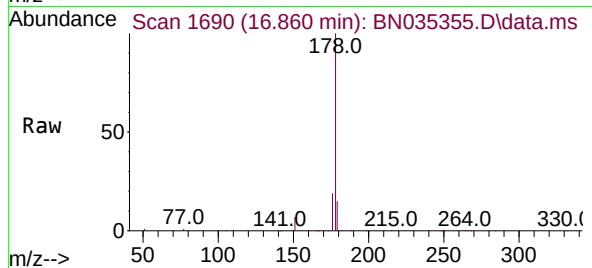




#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

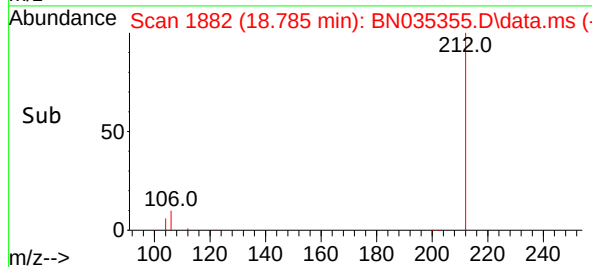
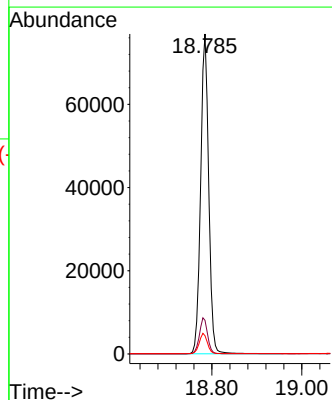
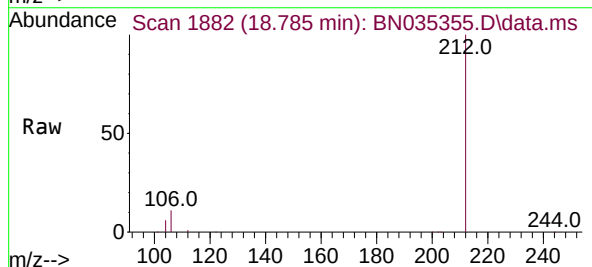
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

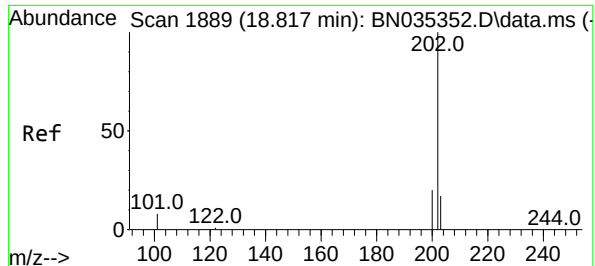
Tgt Ion:178 Resp: 87657
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.6 18.8



#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

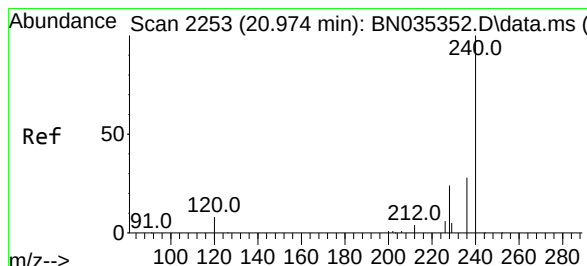
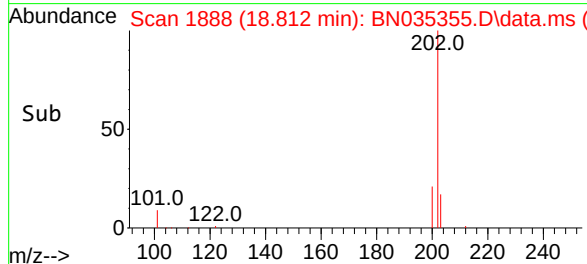
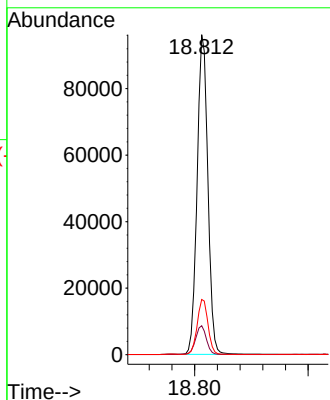
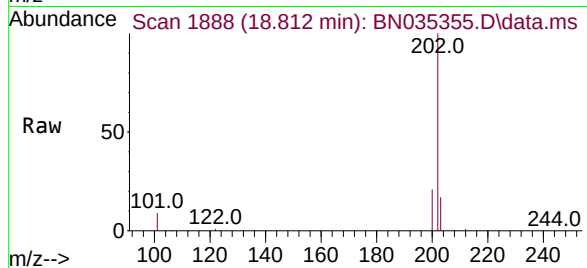




#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1889
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

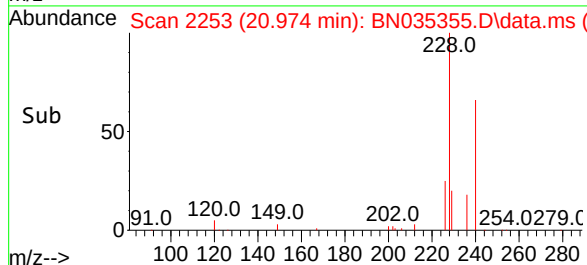
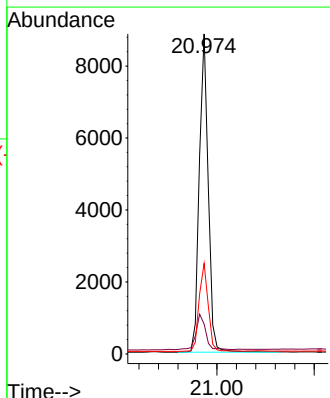
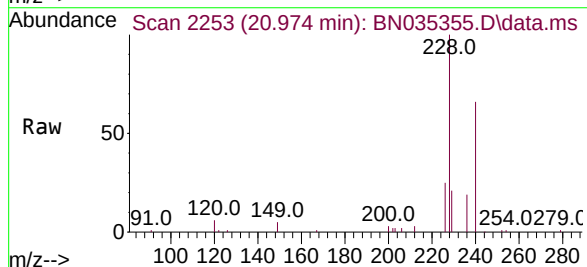
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

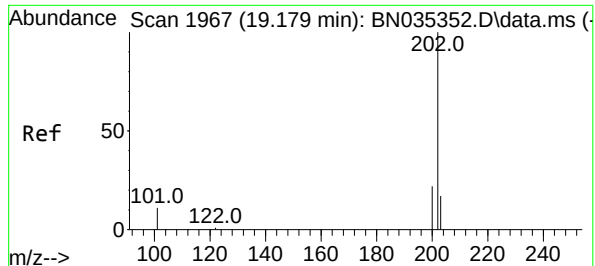
Tgt Ion:202 Resp: 125901
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.3 13.7 20.5



#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

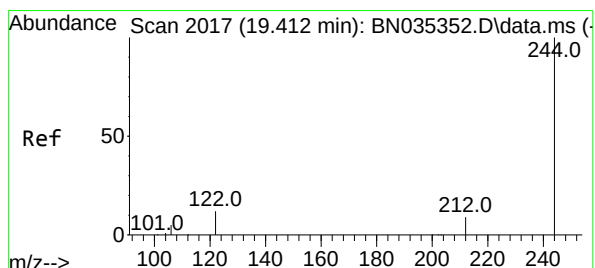
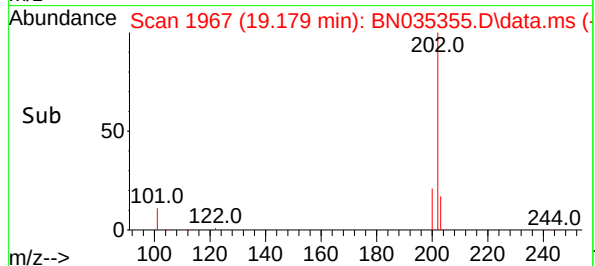
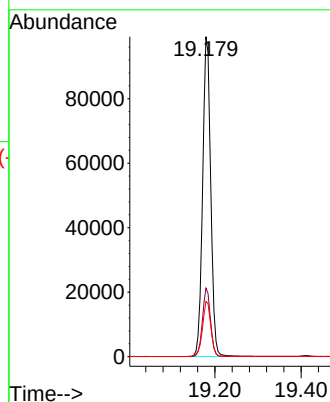
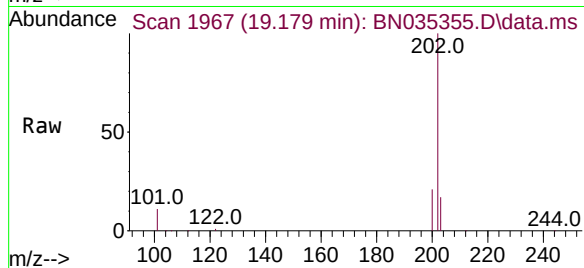
Tgt Ion:202 Resp: 129105

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

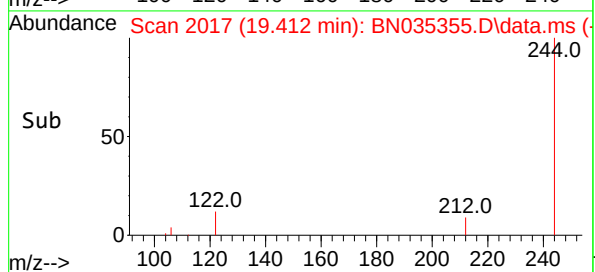
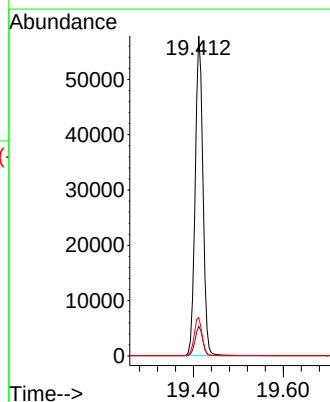
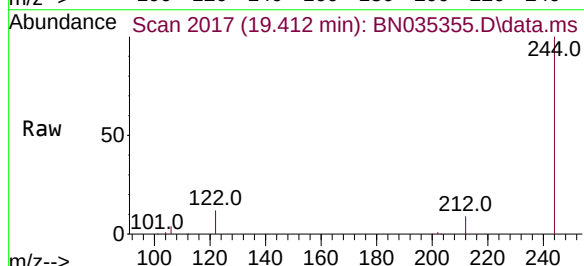
Tgt Ion:244 Resp: 69164

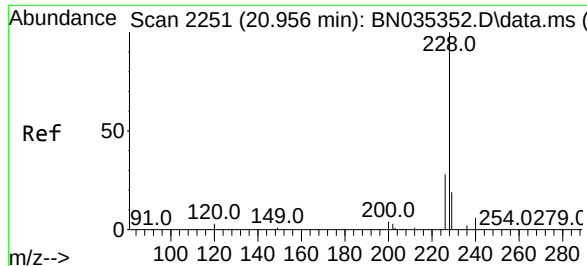
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.0 10.3 15.5

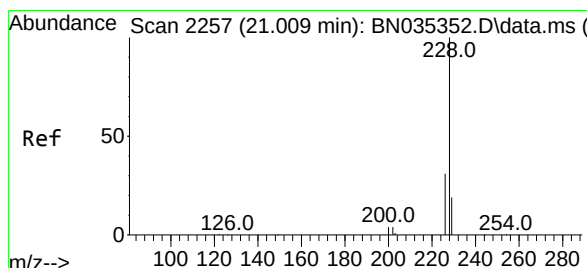
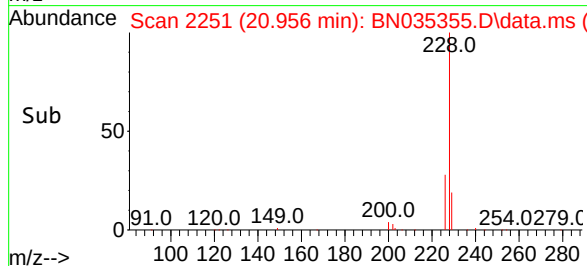
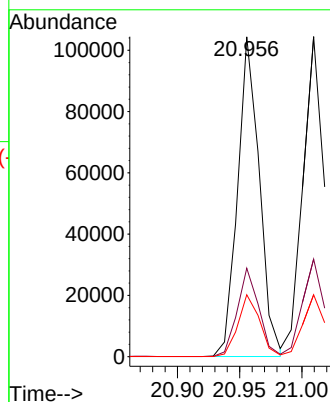
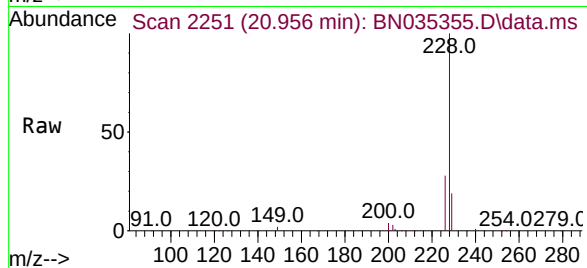




#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

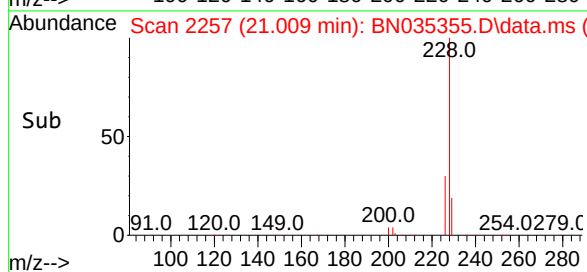
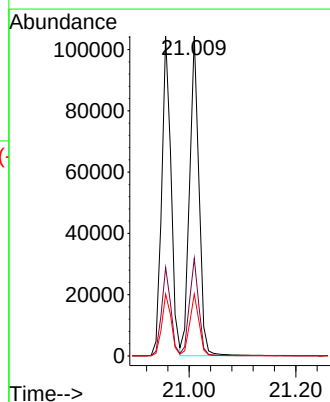
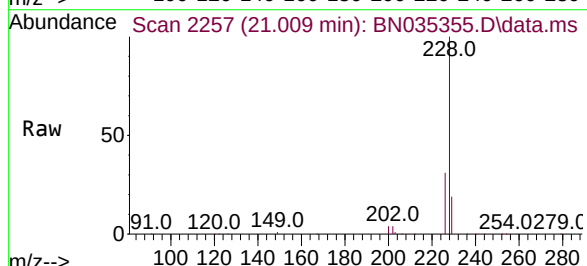
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

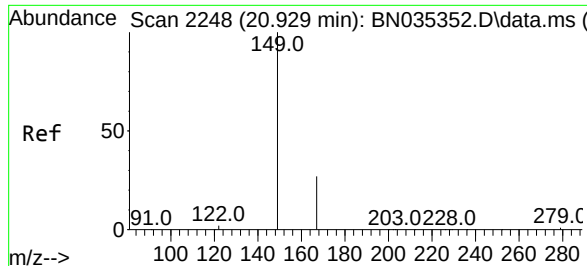
Tgt Ion:228 Resp: 126517
Ion Ratio Lower Upper
228 100
226 27.6 22.5 33.7
229 19.4 15.8 23.8



#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

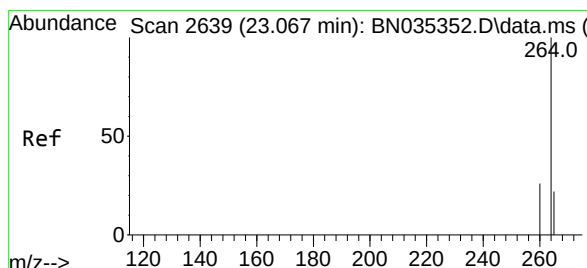
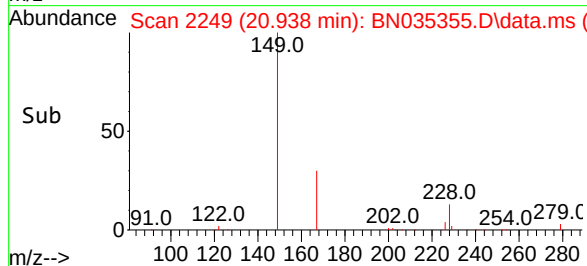
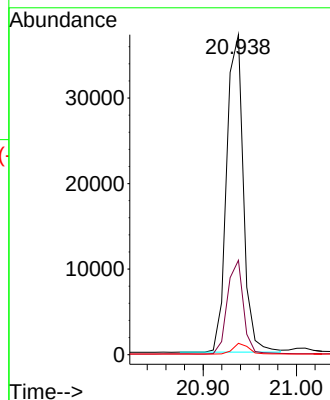
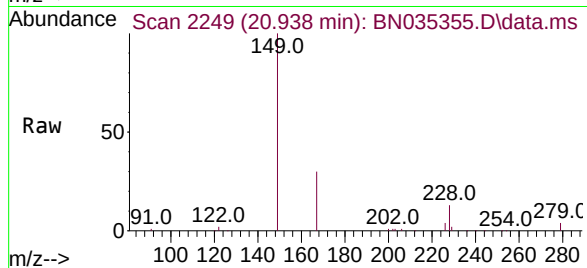




#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

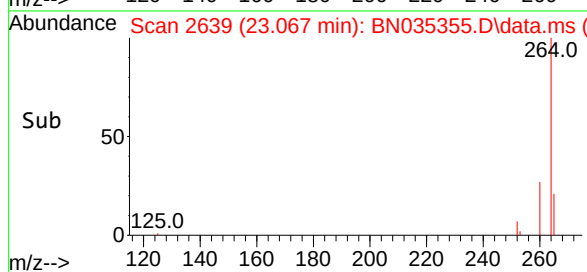
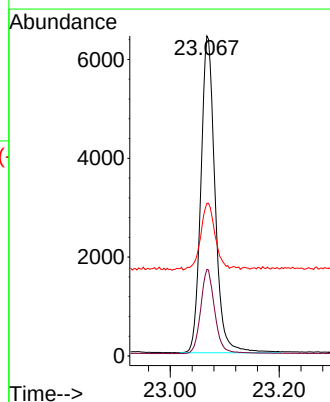
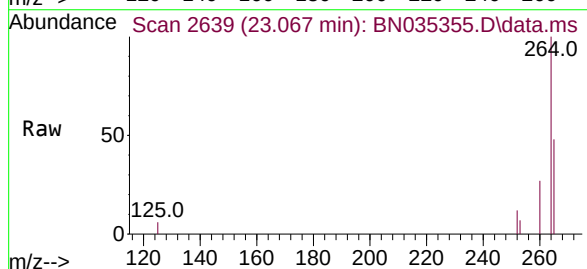
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

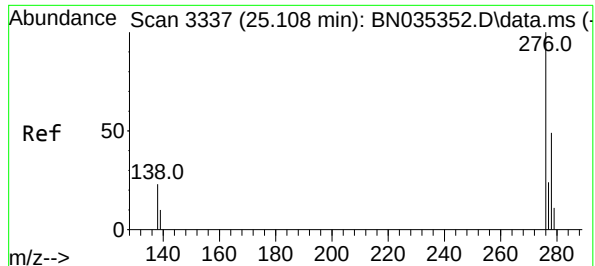
Tgt Ion:149 Resp: 46251
Ion Ratio Lower Upper
149 100
167 28.3 22.2 33.4
279 3.2 2.7 4.1



#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

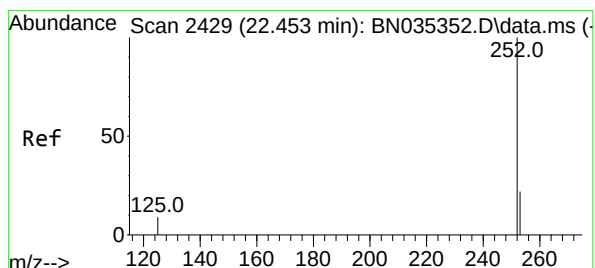
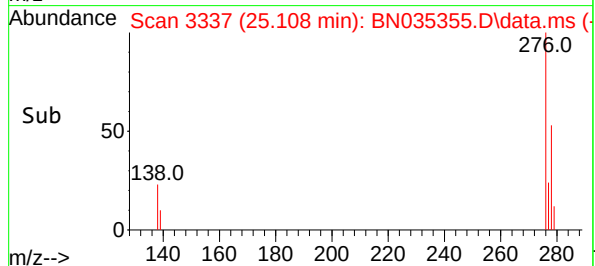
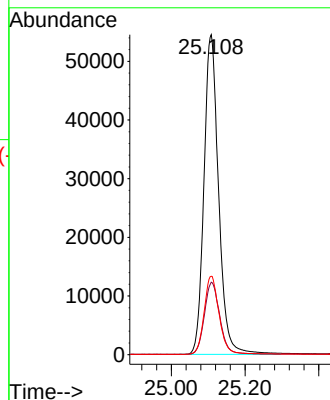
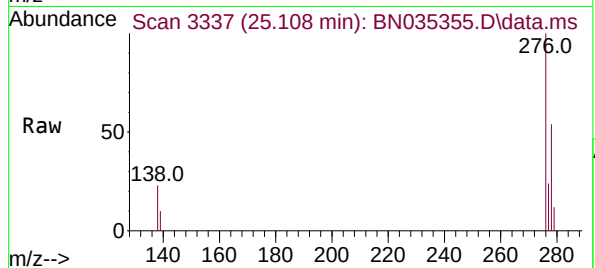
Tgt Ion:276 Resp: 150433

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

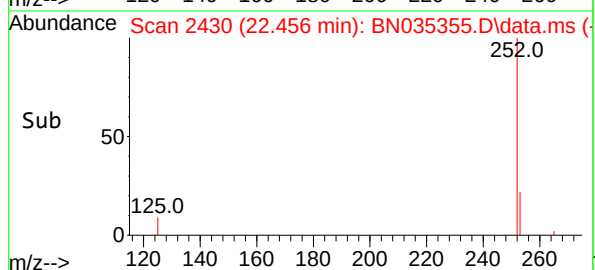
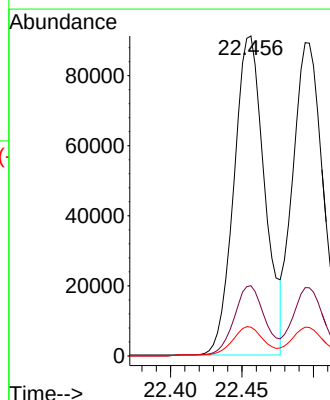
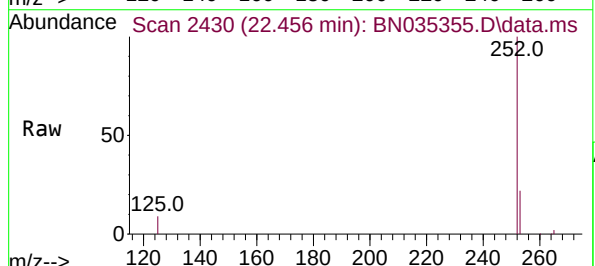
Tgt Ion:252 Resp: 136261

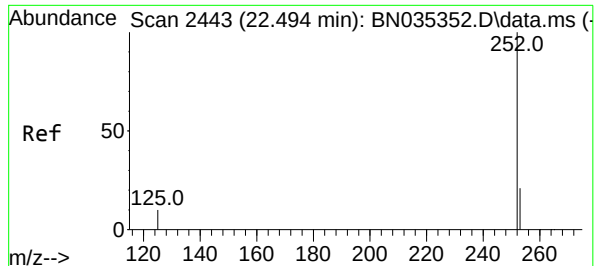
Ion Ratio Lower Upper

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

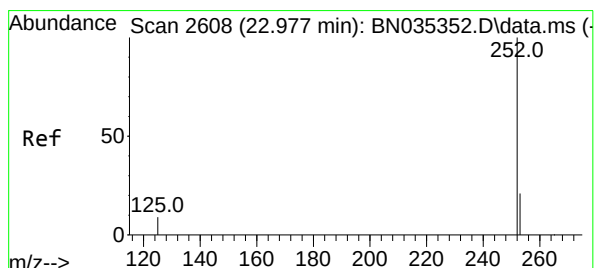
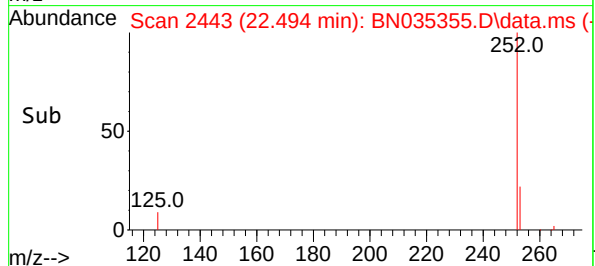
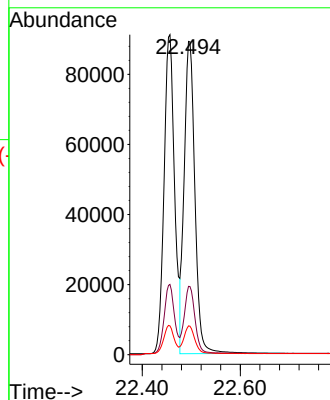
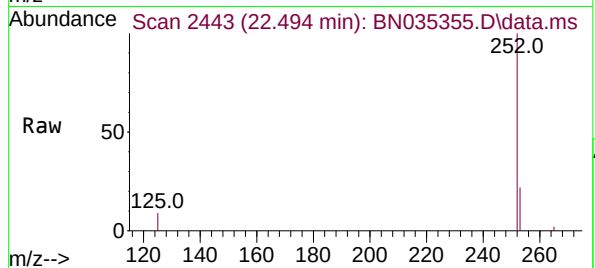
Tgt Ion:252 Resp: 134789

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

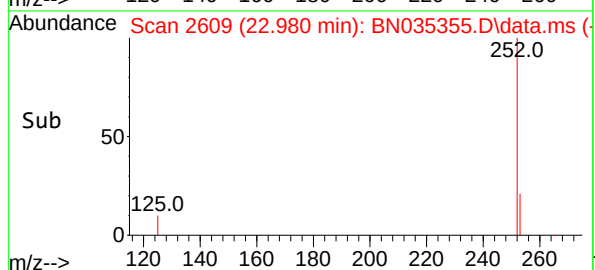
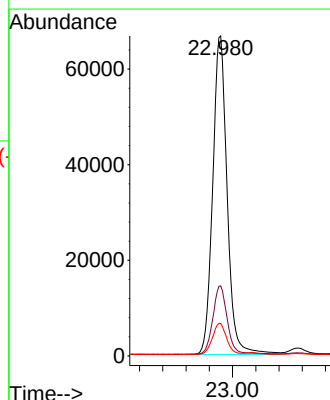
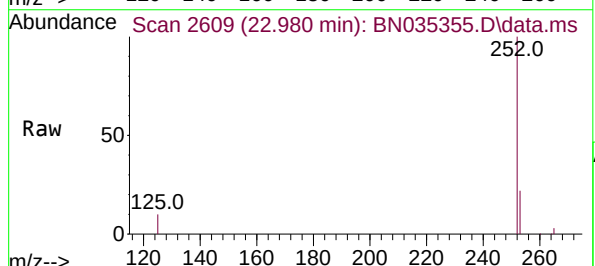
Tgt Ion:252 Resp: 114719

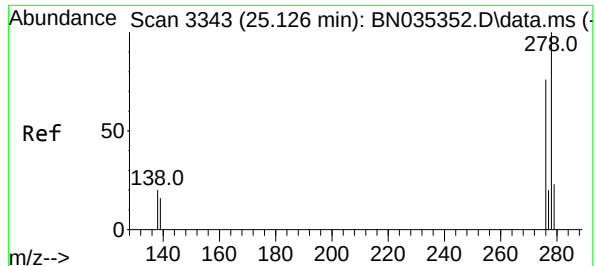
Ion Ratio Lower Upper

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

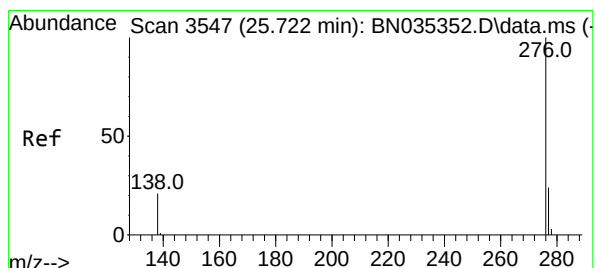
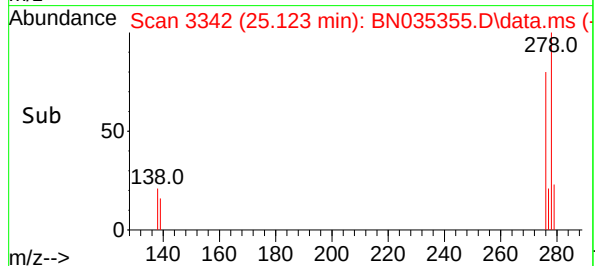
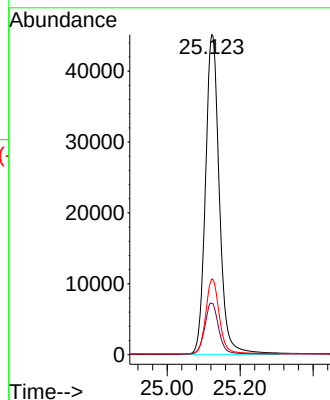
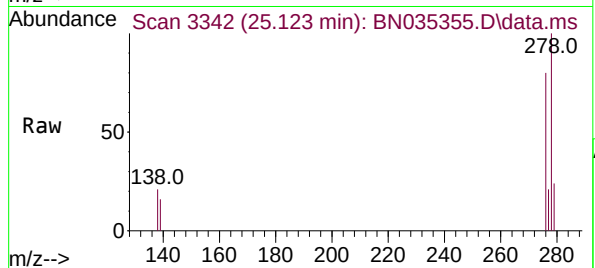
Tgt Ion:278 Resp: 119216

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

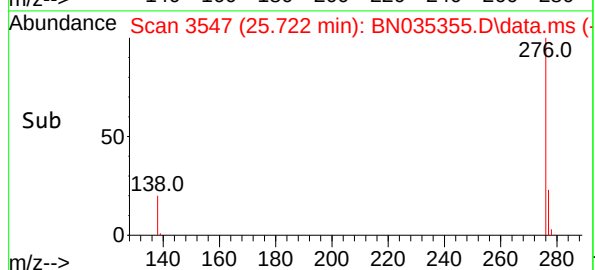
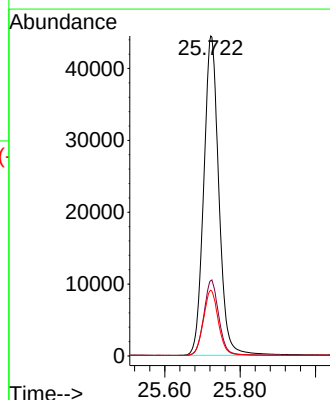
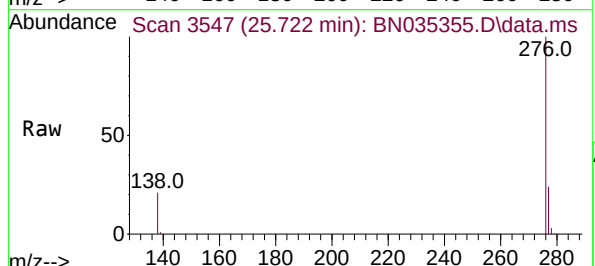
Tgt Ion:276 Resp: 123841

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

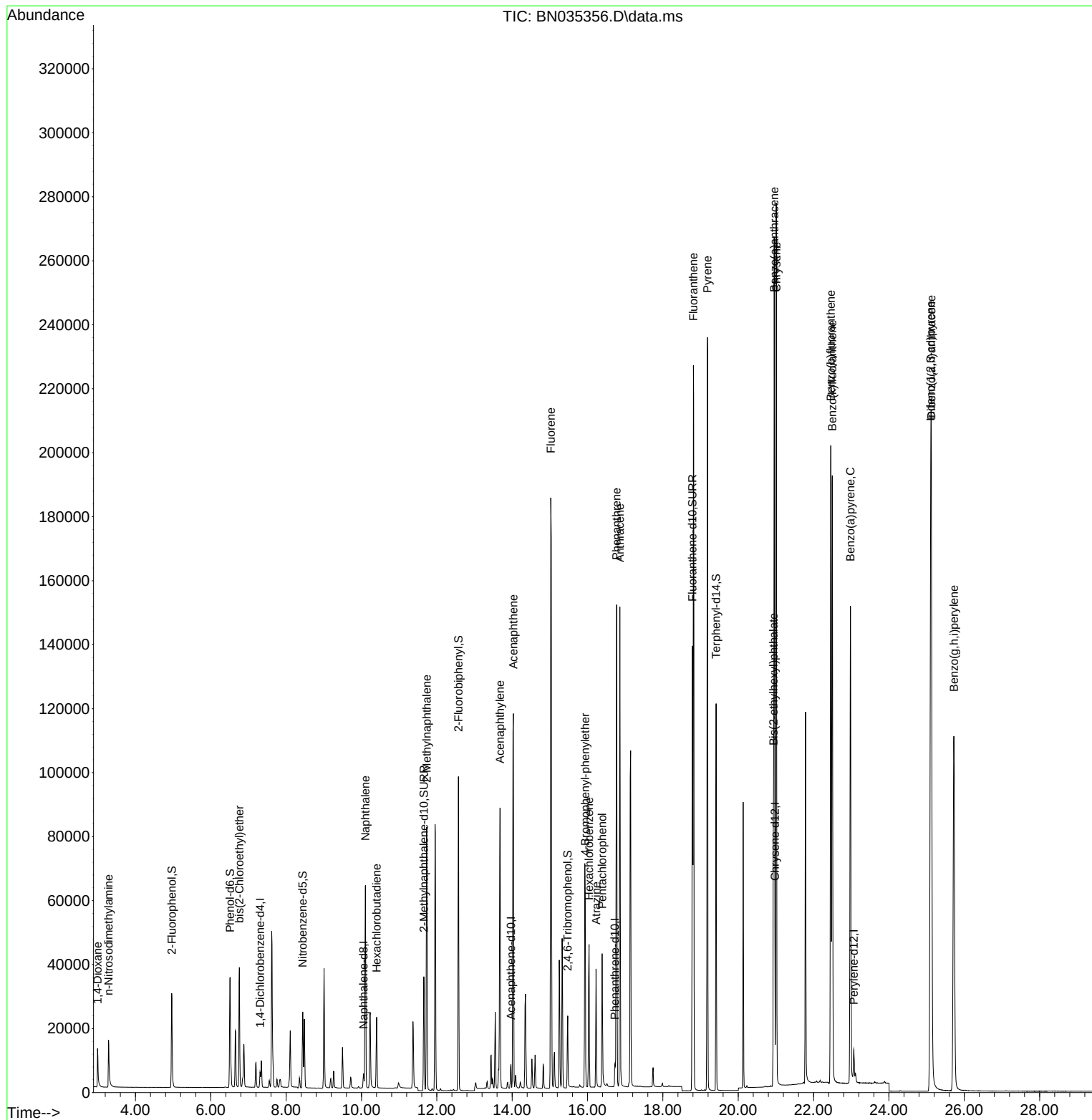
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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						
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

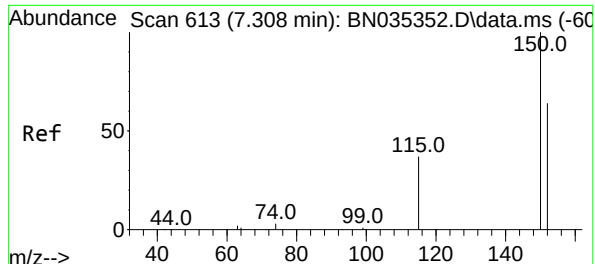
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

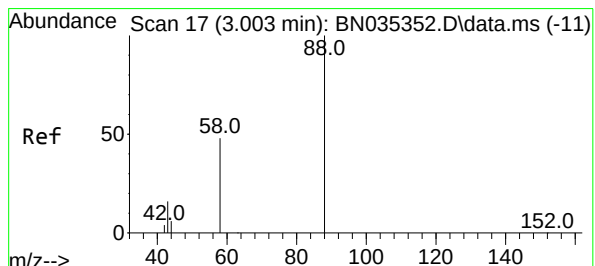
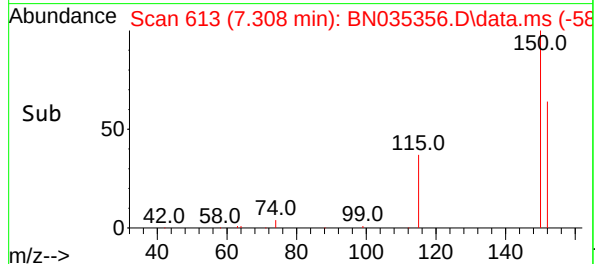
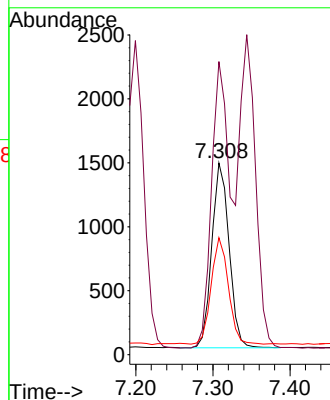
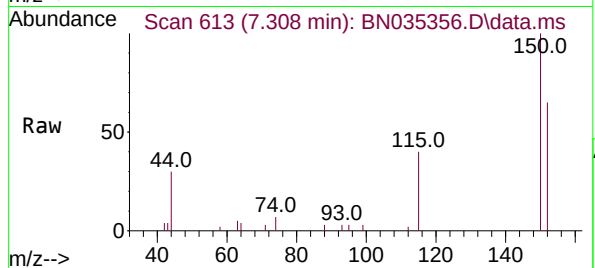




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

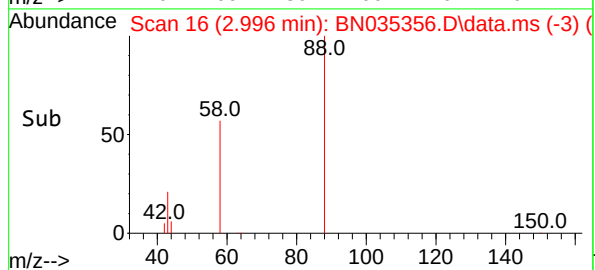
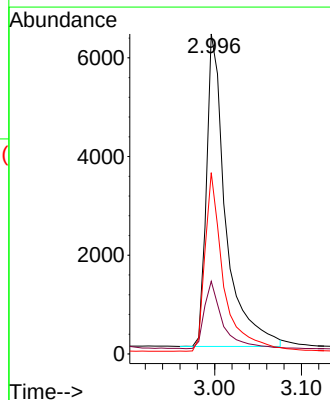
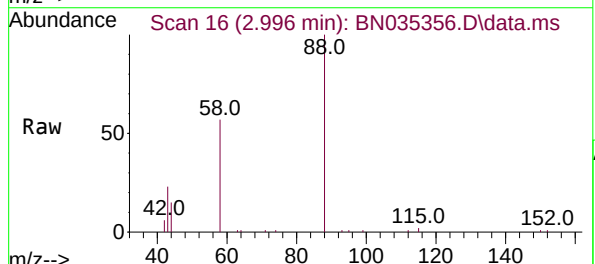
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

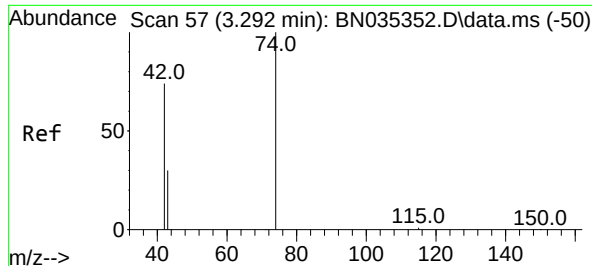
Tgt Ion:152 Resp: 2249
Ion Ratio Lower Upper
152 100
150 152.9 124.0 186.0
115 61.0 49.6 74.4



#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

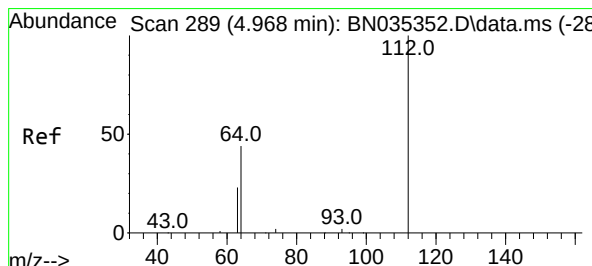
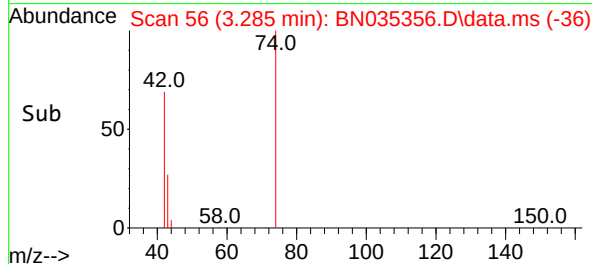
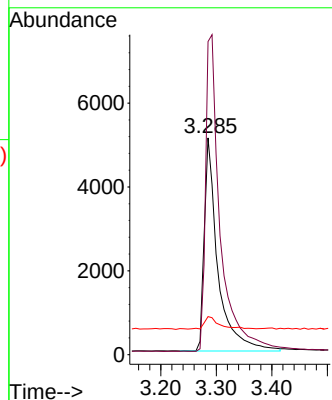
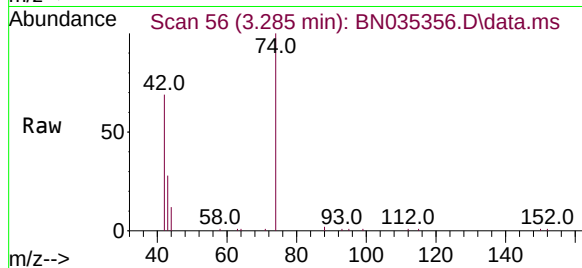




#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

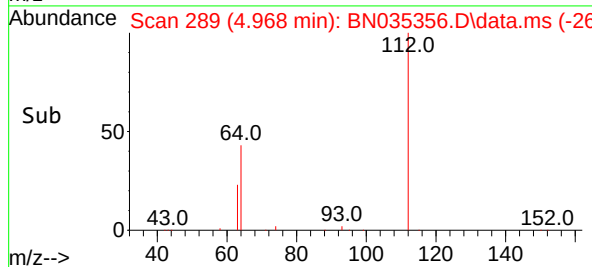
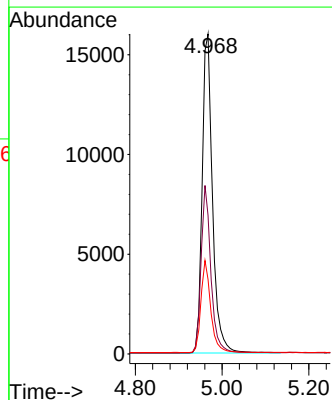
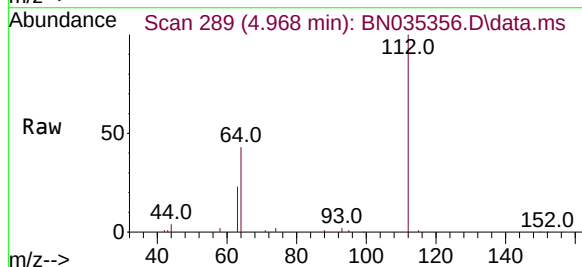
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

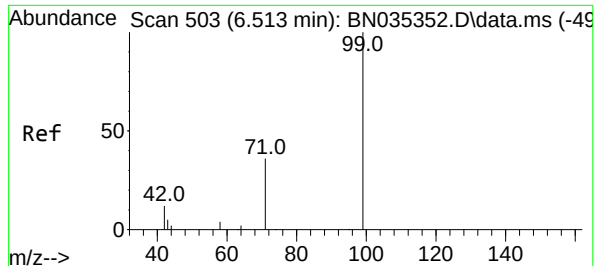
Tgt Ion: 42 Resp: 8681
Ion Ratio Lower Upper
42 100
74 161.2 124.9 187.3
44 6.7 2.2 3.4#



#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

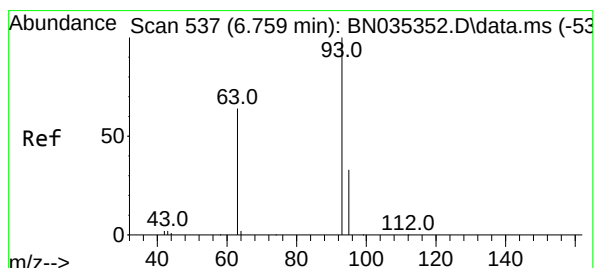
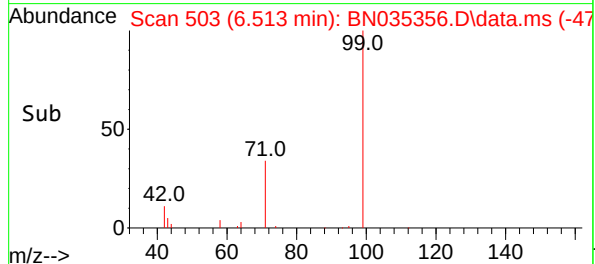
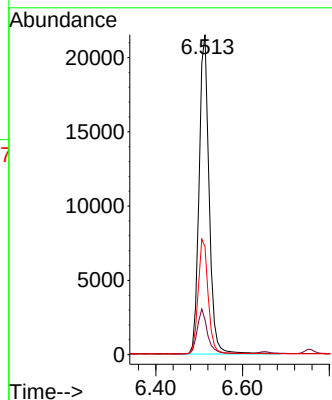
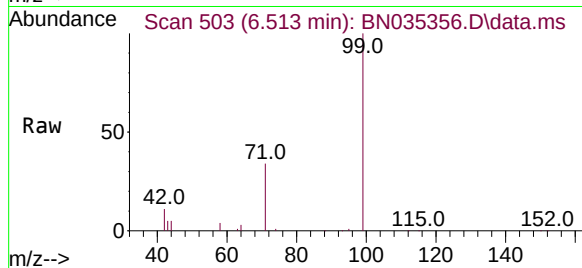




#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

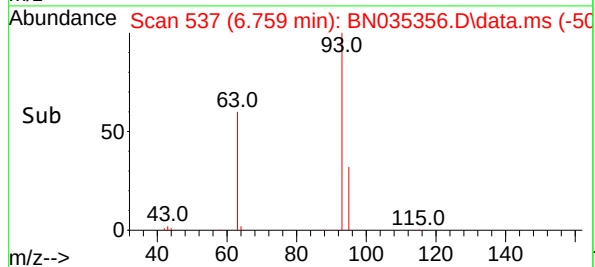
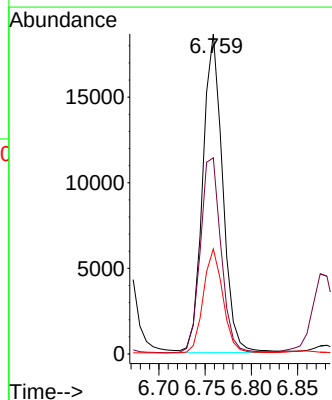
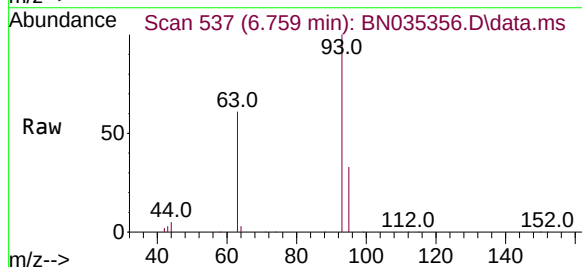
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

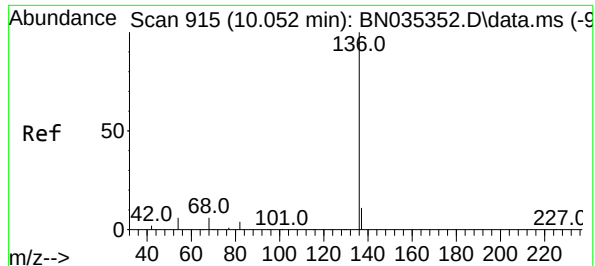
Tgt Ion: 99 Resp: 34560
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.4 29.3 43.9



#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

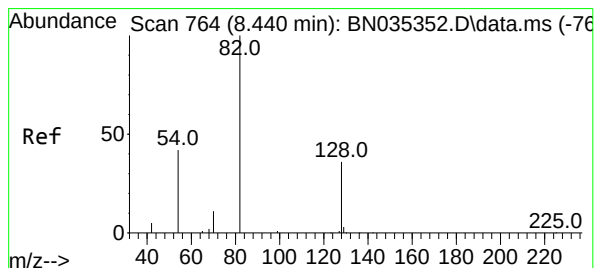
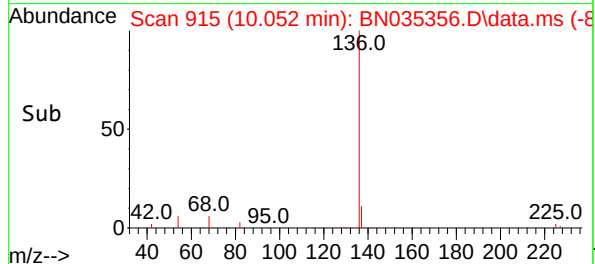
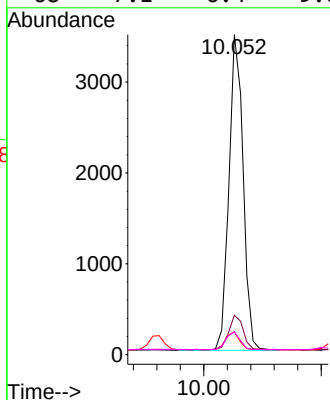
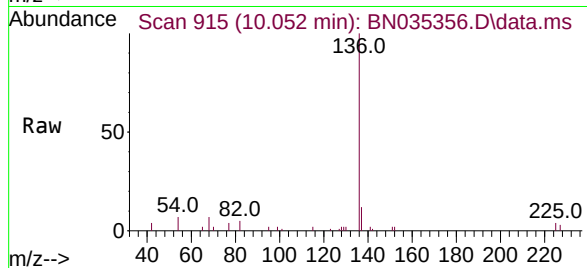




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

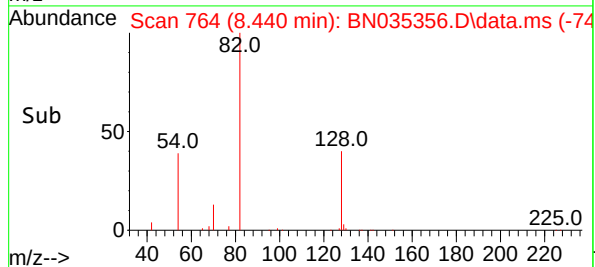
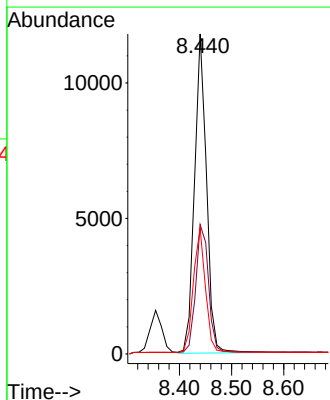
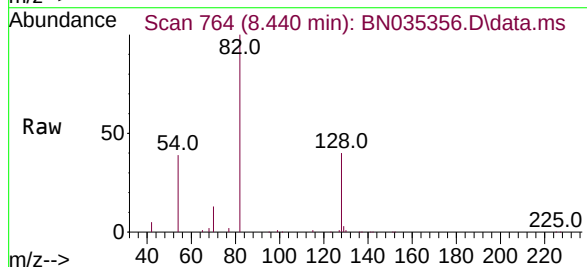
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

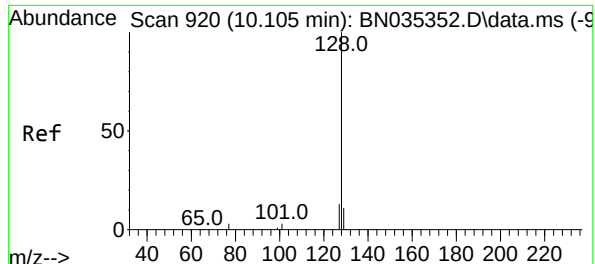
Tgt Ion:	136	Resp:	5807
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6



#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

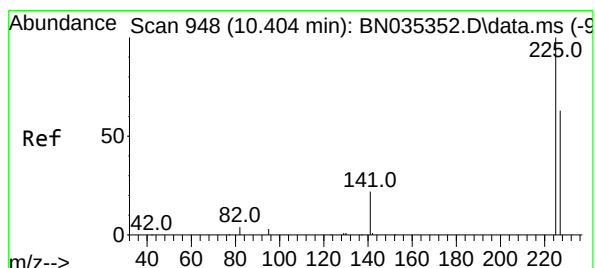
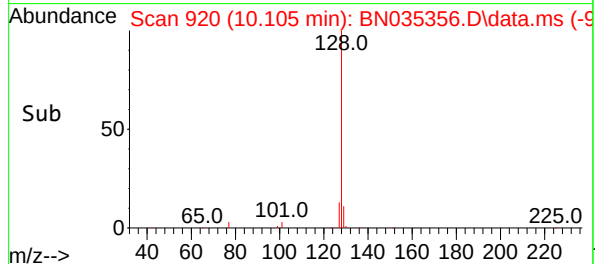
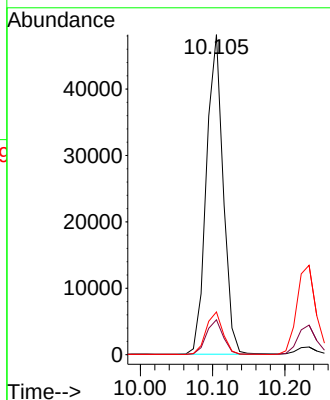
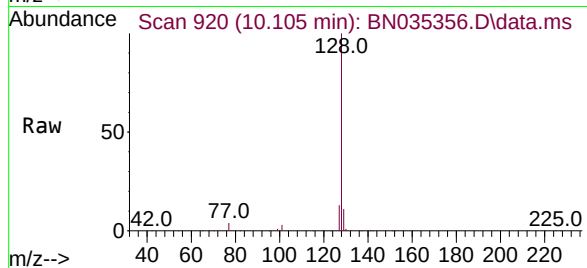




#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

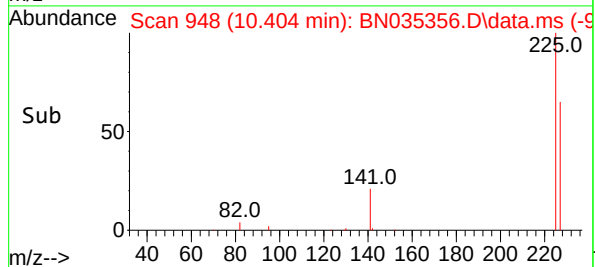
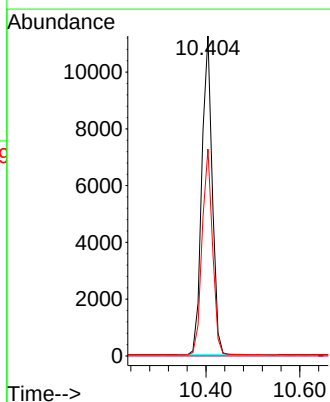
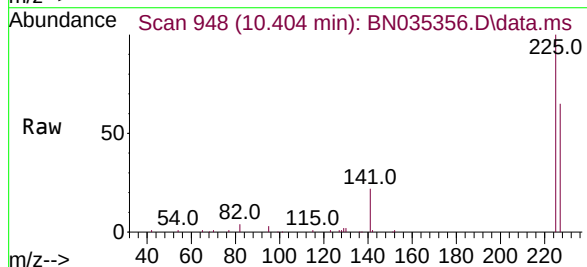
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

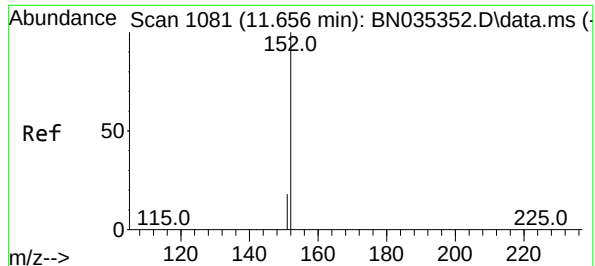
Tgt Ion:128 Resp: 77668
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.4 11.4 17.2



#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

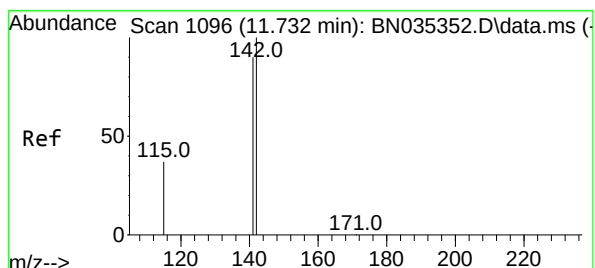
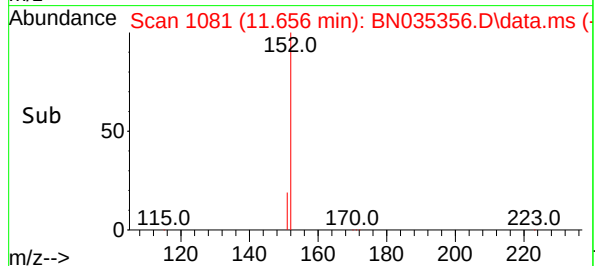
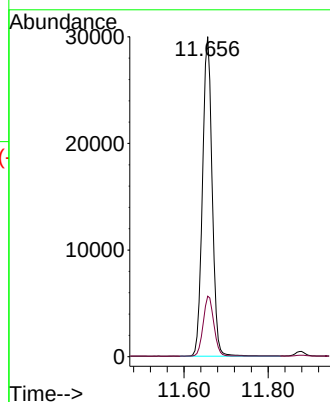
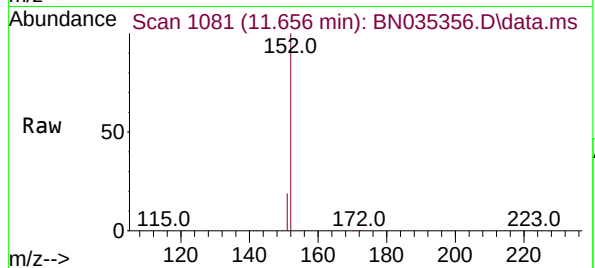




#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

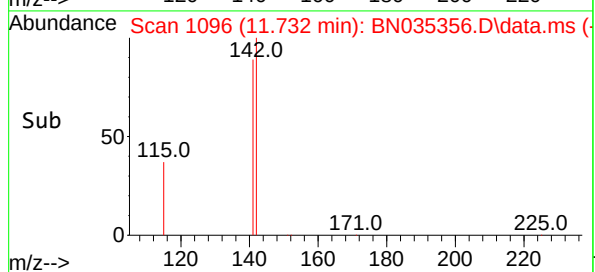
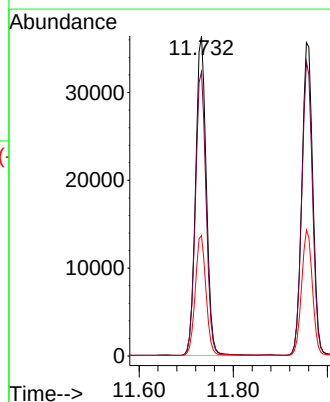
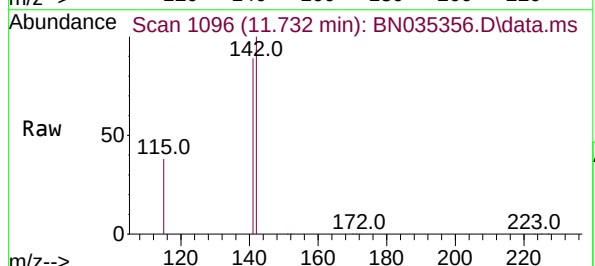
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

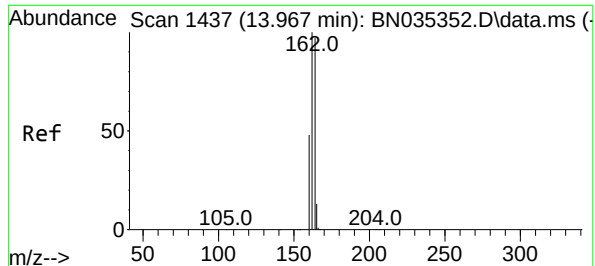
Tgt Ion:152 Resp: 47612
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

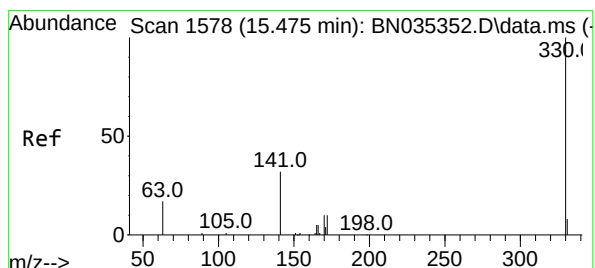
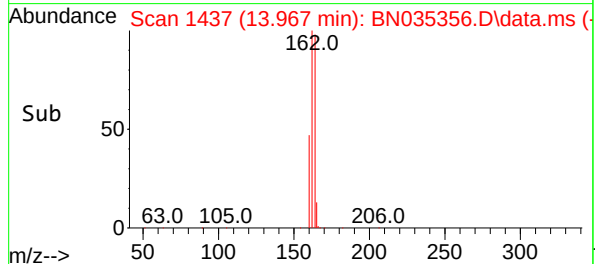
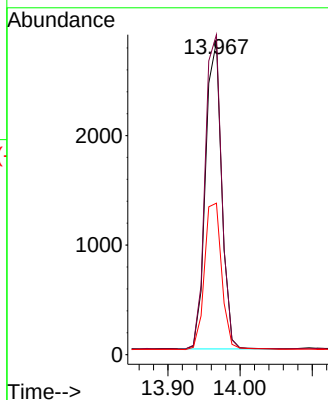
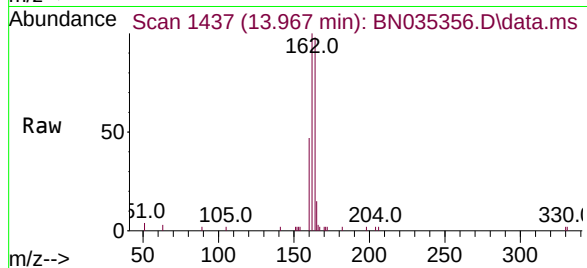




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

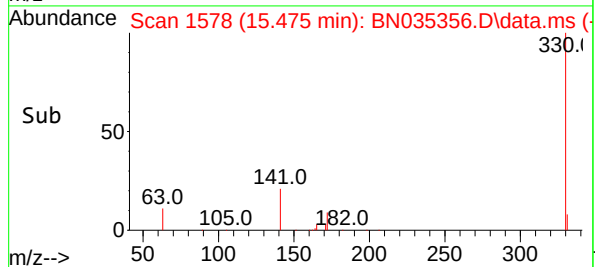
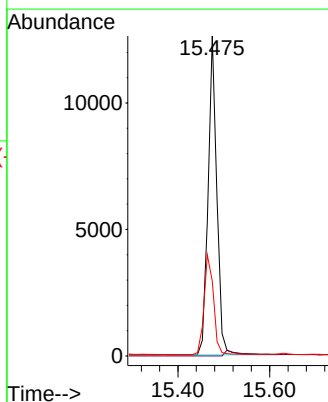
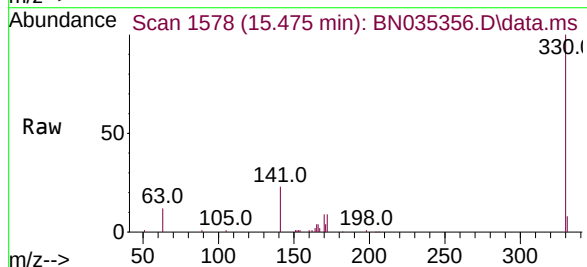
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

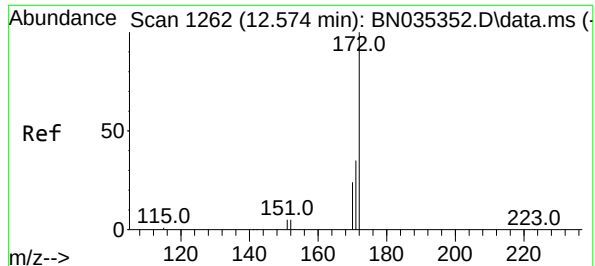
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	48.4	40.1	60.1



#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	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# 11

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

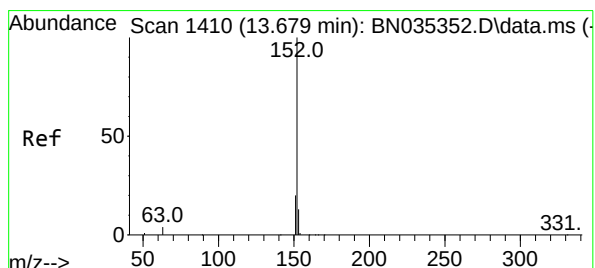
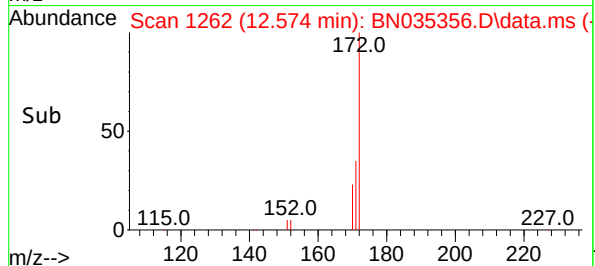
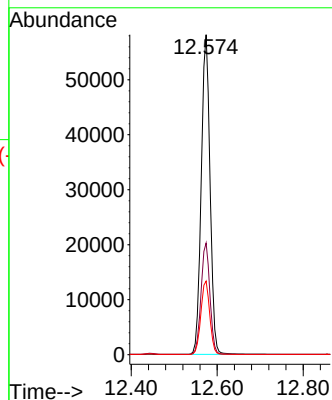
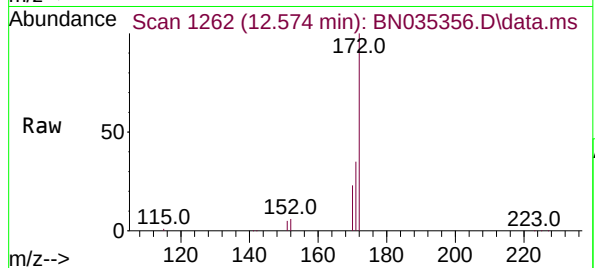
Tgt Ion:172 Resp: 82401

Ion Ratio Lower Upper

172 100

171 34.9 29.0 43.4

170 23.0 19.8 29.8



#16

Acenaphthylene

Concen: 5.209 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

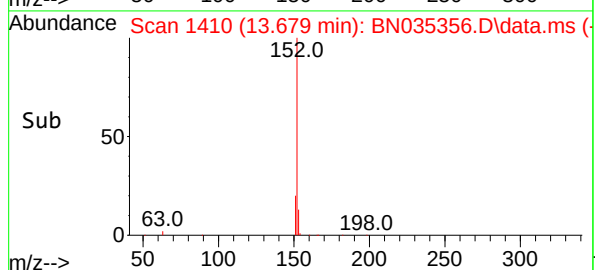
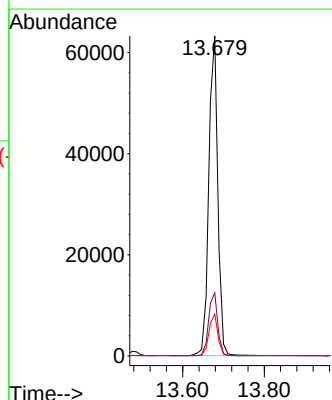
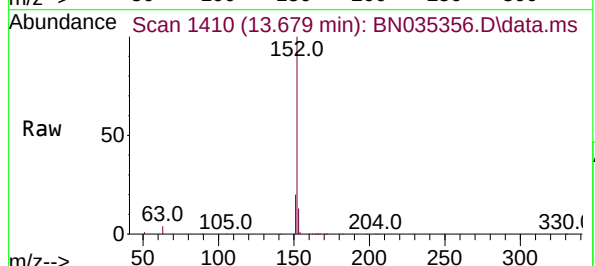
Tgt Ion:152 Resp: 97129

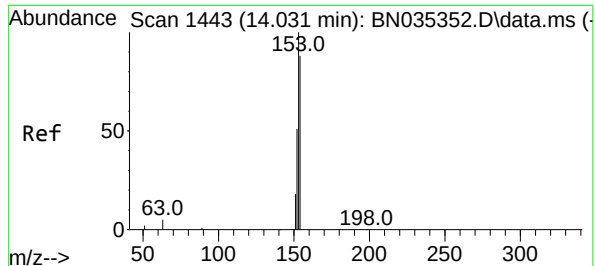
Ion Ratio Lower Upper

152 100

151 19.7 16.2 24.2

153 12.9 10.4 15.6





#17

Acenaphthene

Concen: 5.088 ng

RT: 14.031 min Scan# 1443

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

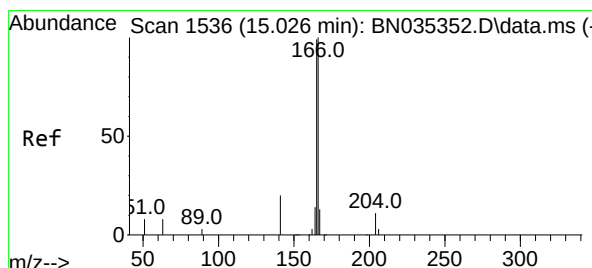
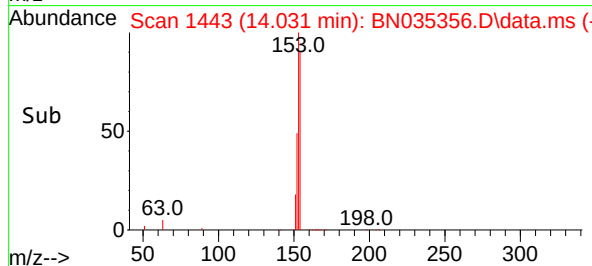
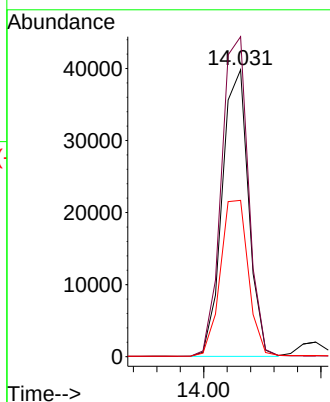
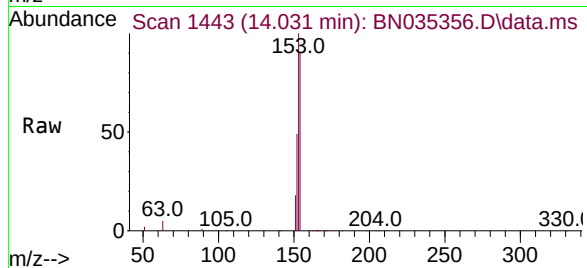
Tgt Ion:154 Resp: 62170

Ion Ratio Lower Upper

154 100

153 114.7 92.6 139.0

152 58.1 49.0 73.6



#18

Fluorene

Concen: 4.932 ng

RT: 15.026 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

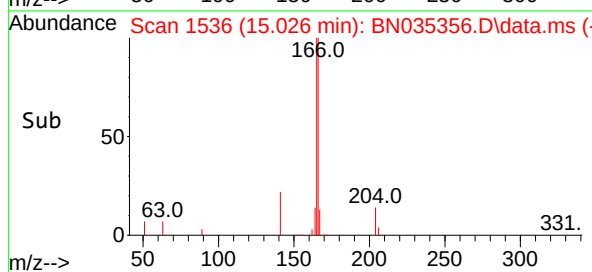
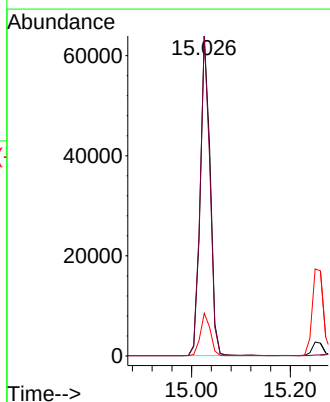
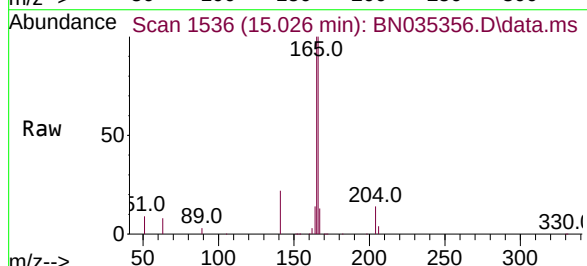
Tgt Ion:166 Resp: 88648

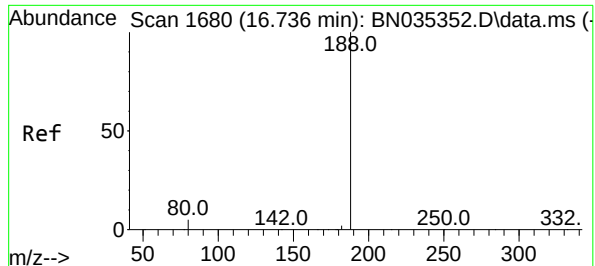
Ion Ratio Lower Upper

166 100

165 98.5 79.7 119.5

167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

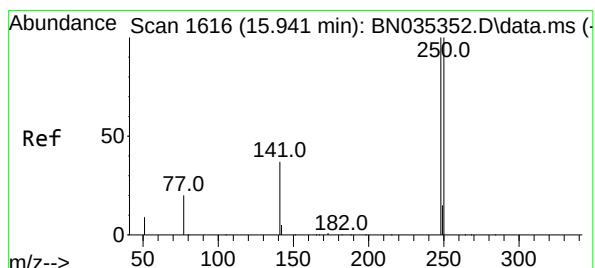
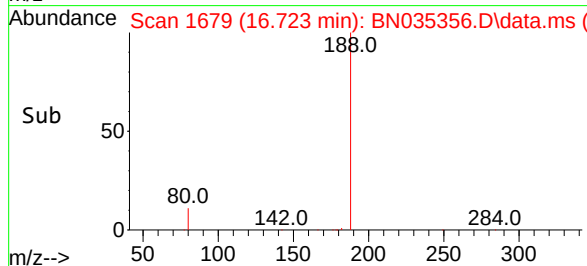
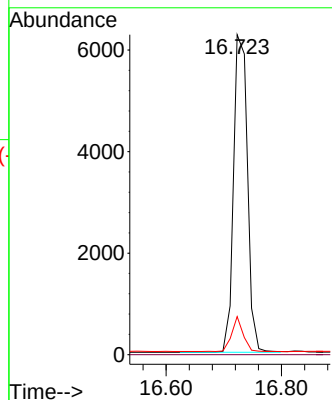
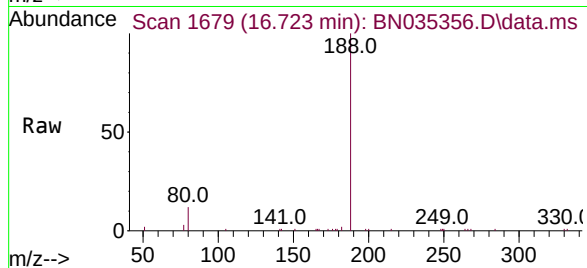
Tgt Ion:188 Resp: 10479

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 4.6 6.8#



#21

4-Bromophenyl-phenylether

Concen: 4.785 ng

RT: 15.941 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

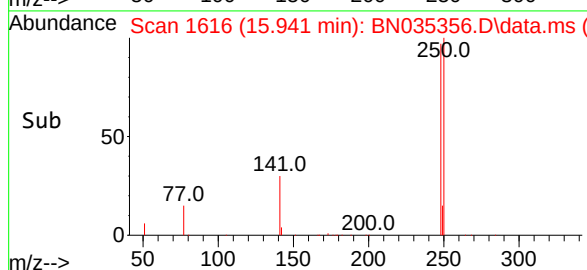
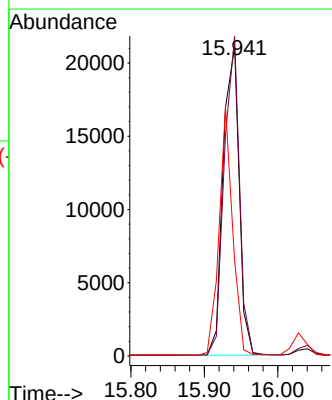
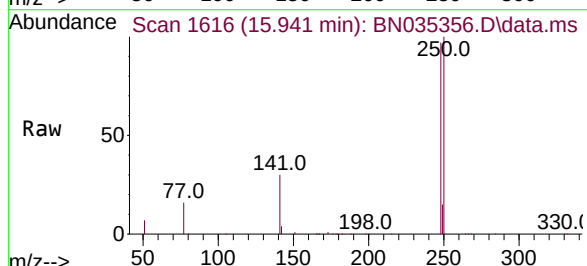
Tgt Ion:248 Resp: 31947

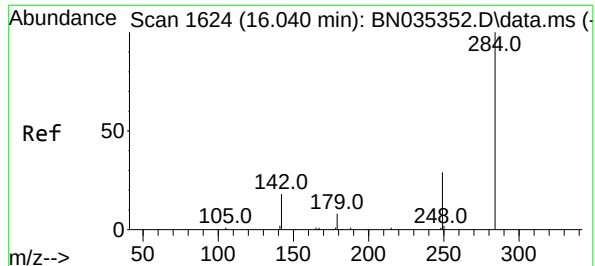
Ion Ratio Lower Upper

248 100

250 103.5 80.6 120.8

141 30.8 31.5 47.3#





#22

Hexachlorobenzene

Concen: 5.241 ng

RT: 16.040 min Scan# 1624

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

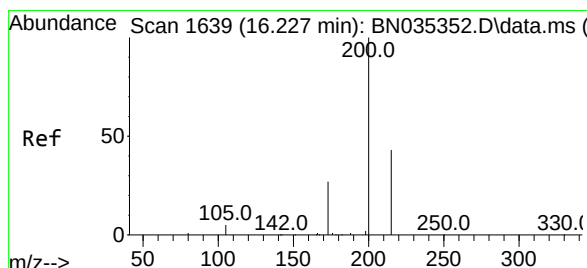
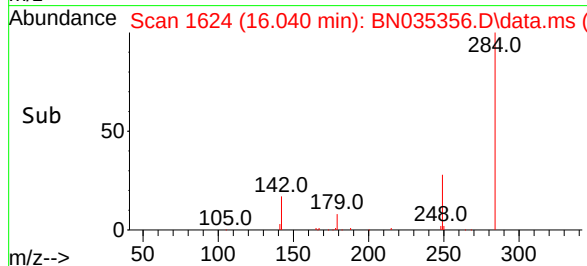
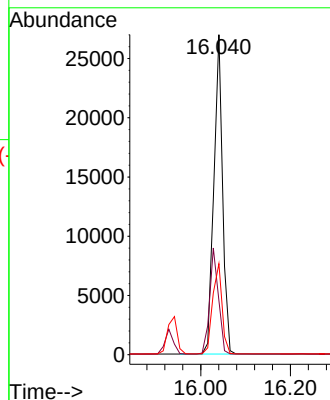
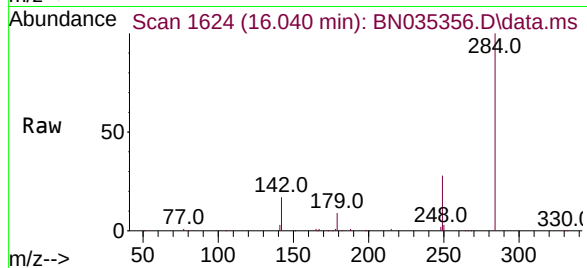
Tgt Ion:284 Resp: 36315

Ion Ratio Lower Upper

284 100

142 33.4 26.7 40.1

249 30.4 24.6 36.8



#23

Atrazine

Concen: 4.179 ng

RT: 16.227 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

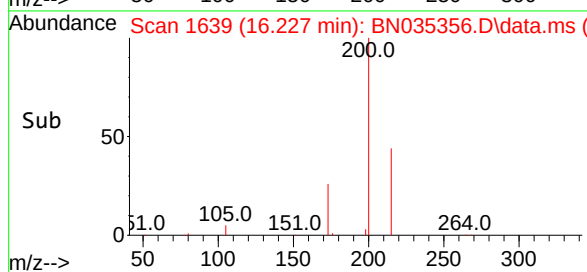
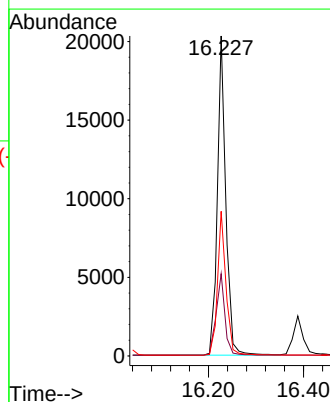
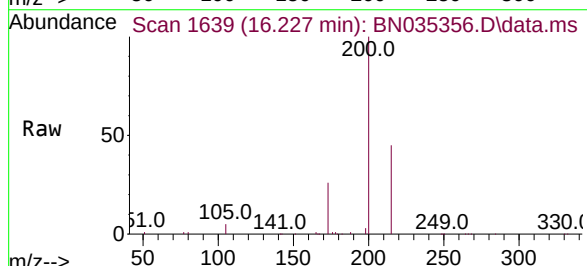
Tgt Ion:200 Resp: 25034

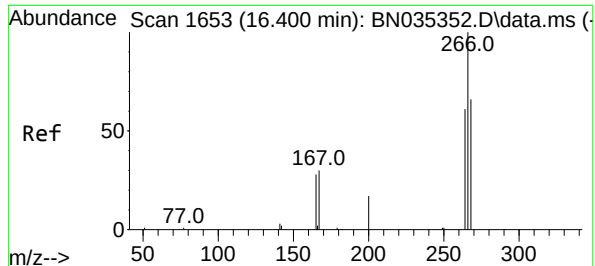
Ion Ratio Lower Upper

200 100

173 25.7 24.1 36.1

215 45.2 36.9 55.3





#24

Pentachlorophenol

Concen: 6.083 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

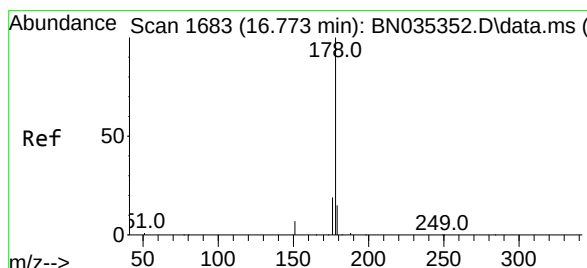
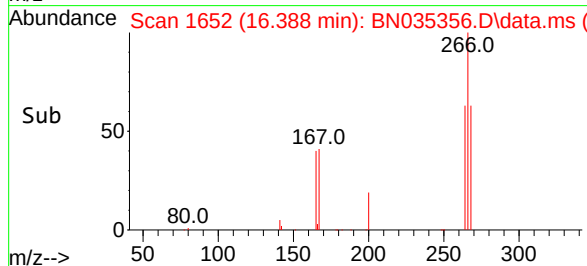
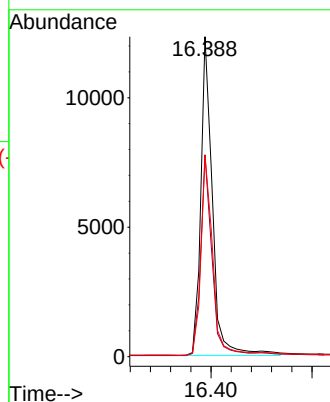
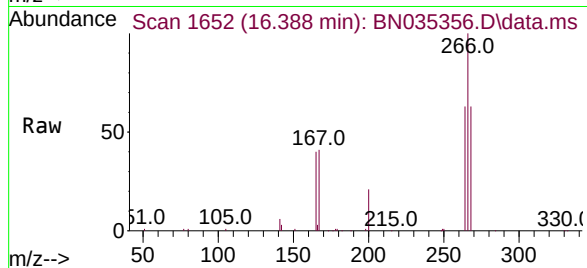
Tgt Ion:266 Resp: 19691

Ion Ratio Lower Upper

266 100

264 62.6 42.3 63.5

268 64.1 43.3 64.9



#25

Phenanthrene

Concen: 5.343 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

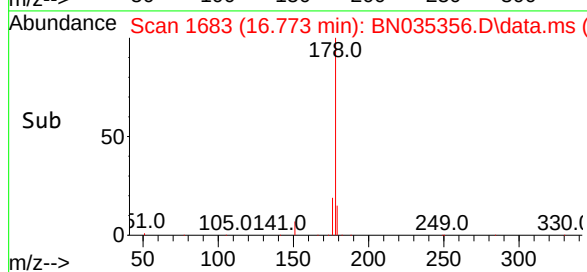
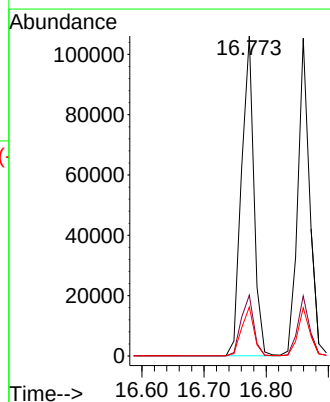
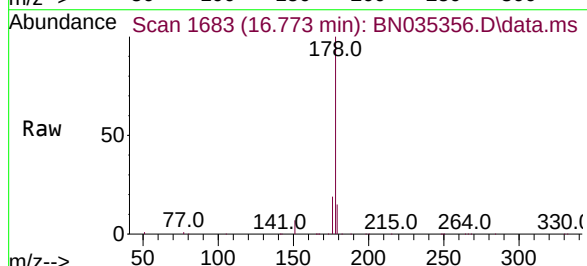
Tgt Ion:178 Resp: 147357

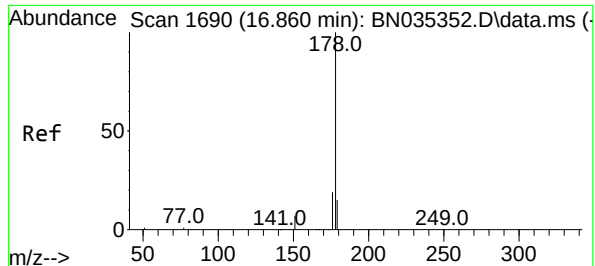
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.2 12.3 18.5





#26

Anthracene

Concen: 5.503 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

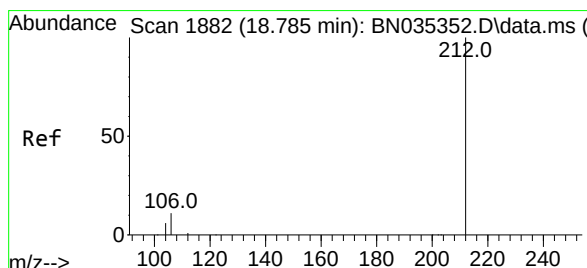
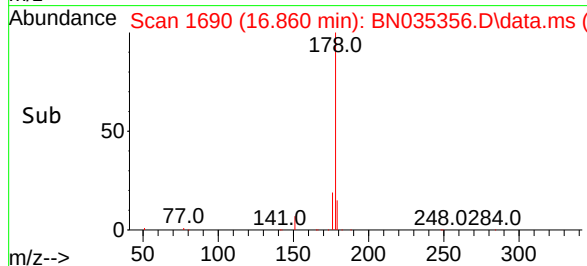
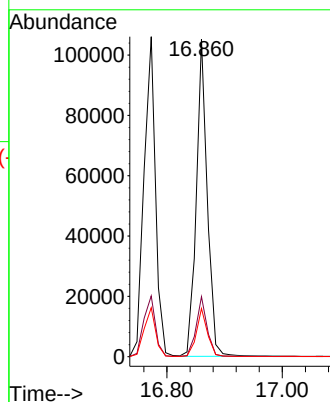
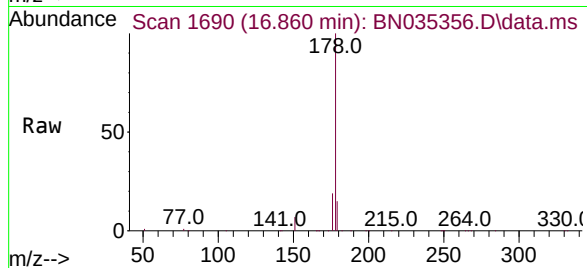
Tgt Ion:178 Resp: 139399

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.1 12.6 18.8



#27

Fluoranthene-d10

Concen: 4.748 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

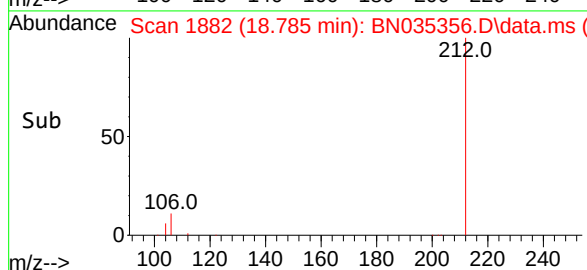
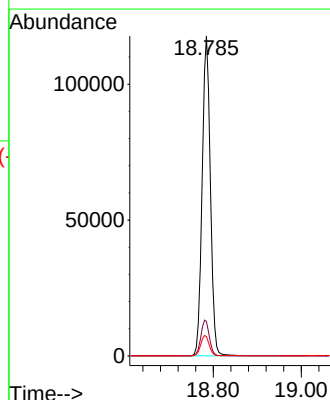
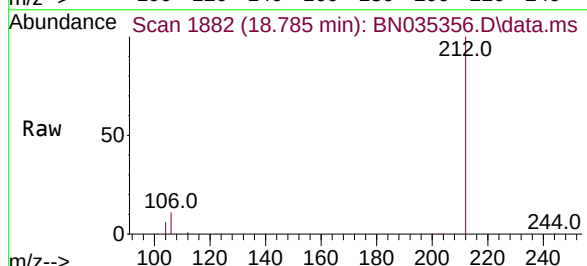
Tgt Ion:212 Resp: 152416

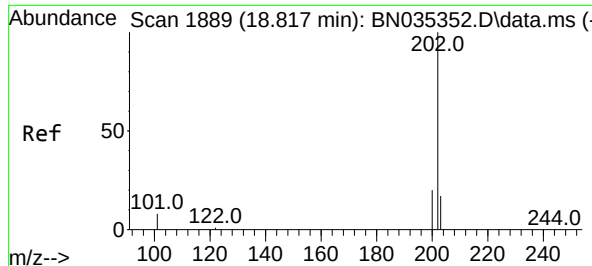
Ion Ratio Lower Upper

212 100

106 11.5 9.2 13.8

104 6.5 5.3 7.9

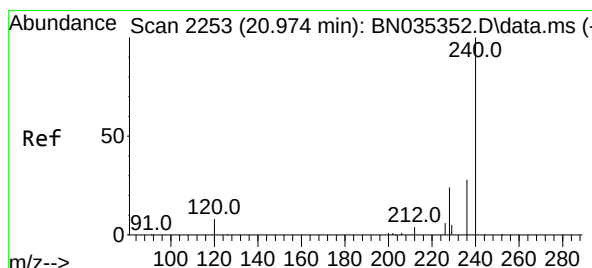
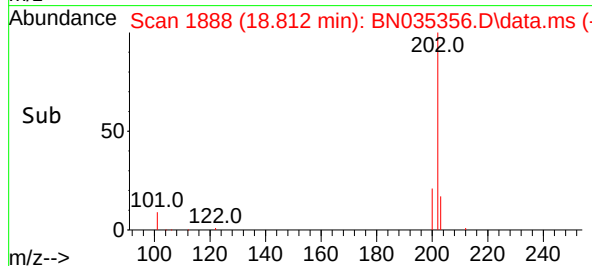
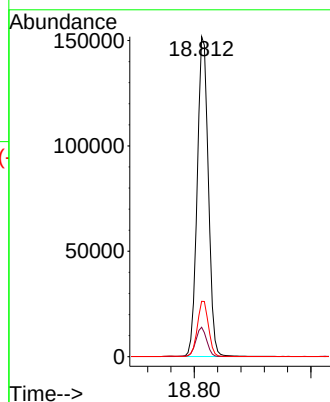
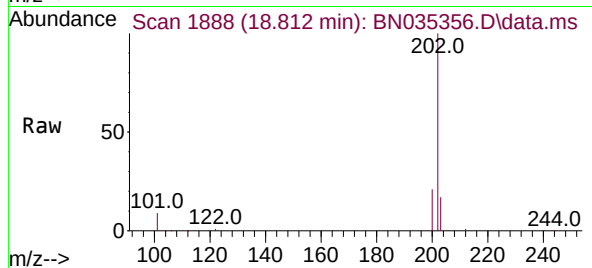




#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

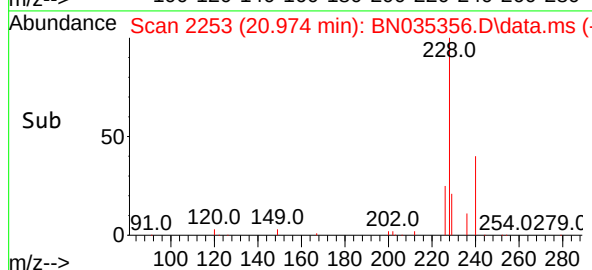
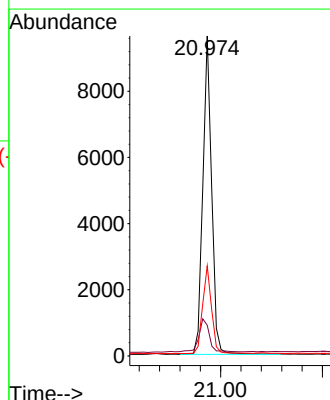
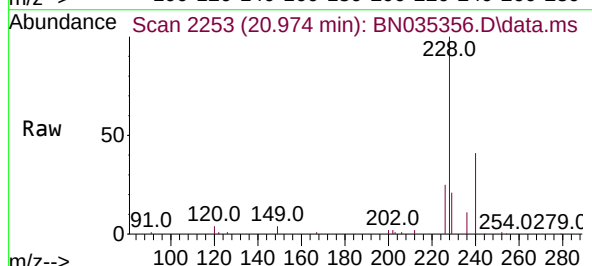
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

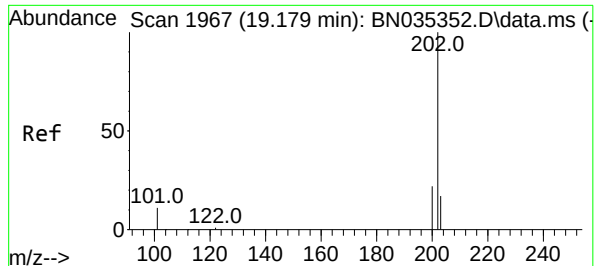
Tgt Ion:202 Resp: 199850
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.4 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520
Ion Ratio Lower Upper
240 100
120 9.6 7.9 11.9
236 28.1 22.9 34.3





#30

Pyrene

Concen: 5.370 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

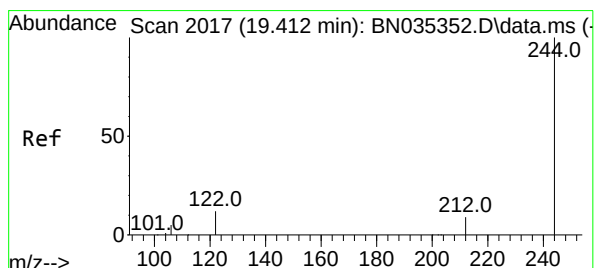
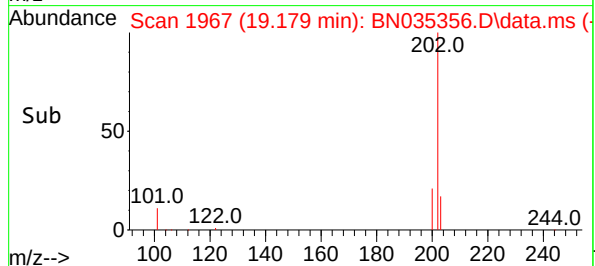
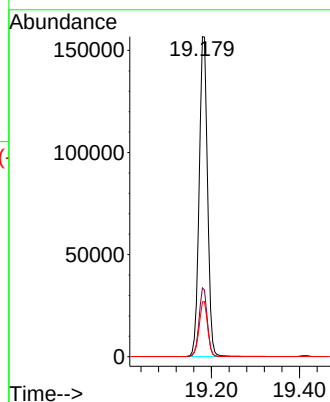
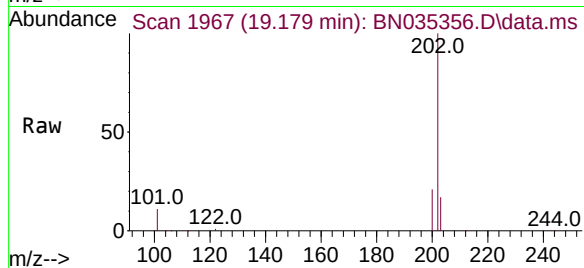
Tgt Ion:202 Resp: 206018

Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.3 21.5



#31

Terphenyl-d14

Concen: 4.581 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

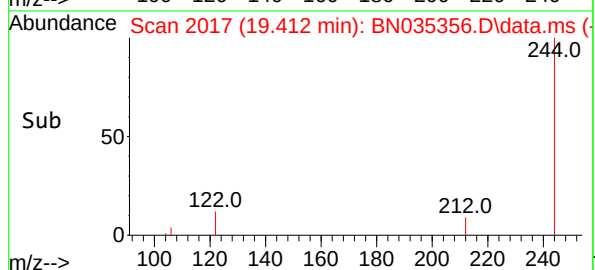
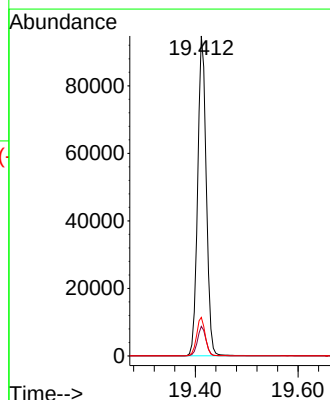
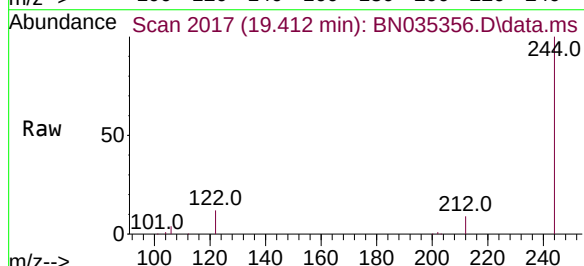
Tgt Ion:244 Resp: 110737

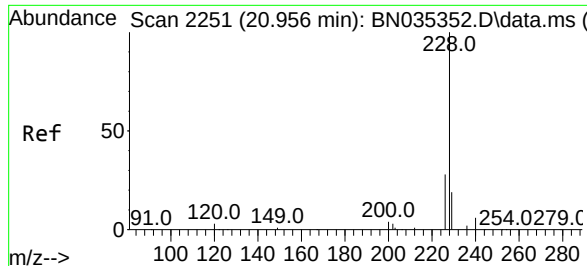
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.1 10.3 15.5

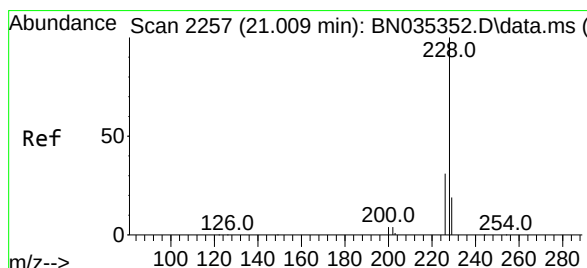
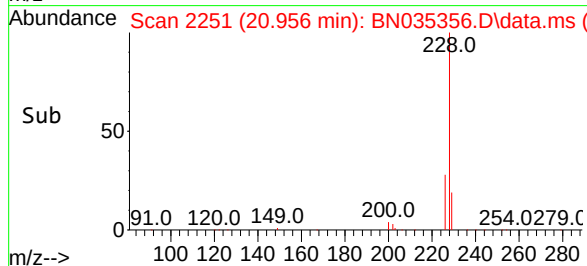
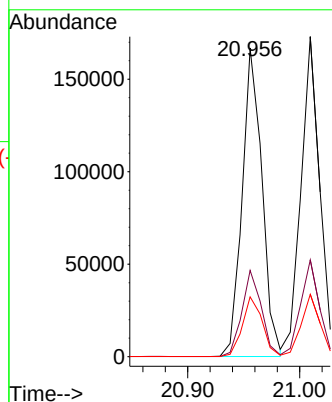
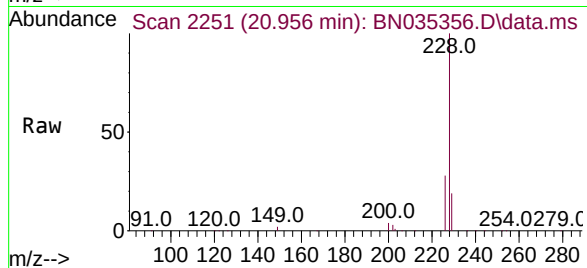




#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

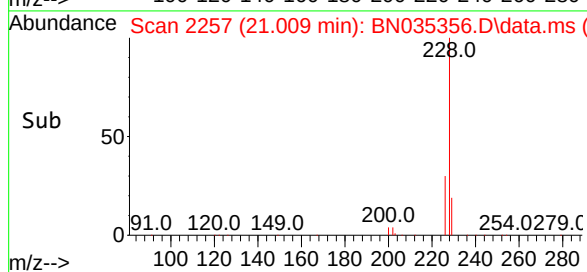
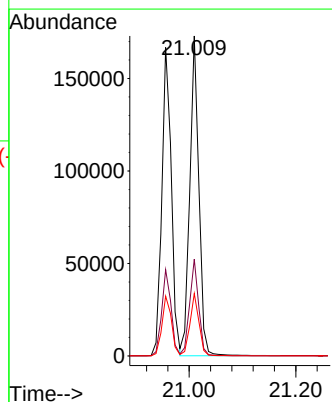
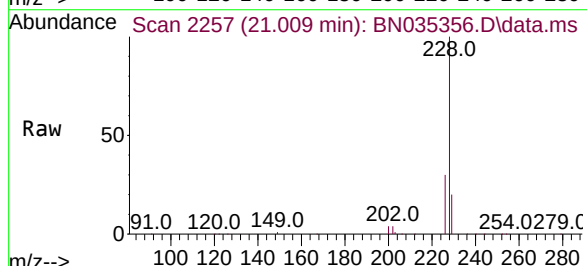
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

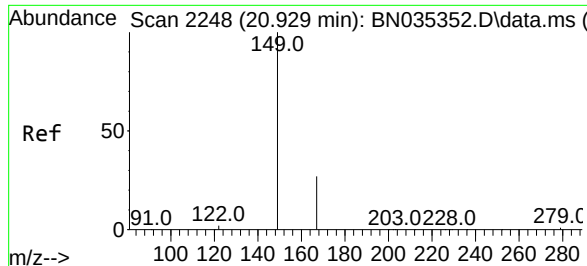
Tgt Ion:228 Resp: 205712
Ion Ratio Lower Upper
228 100
226 27.9 22.5 33.7
229 19.4 15.8 23.8



#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475
Ion Ratio Lower Upper
228 100
226 30.2 24.6 37.0
229 19.5 15.9 23.9

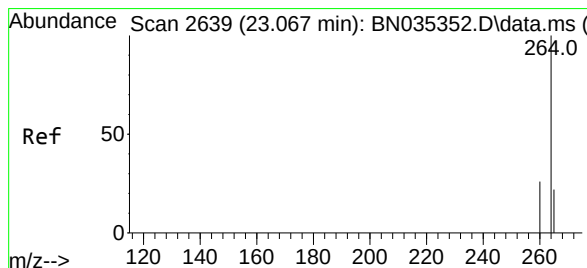
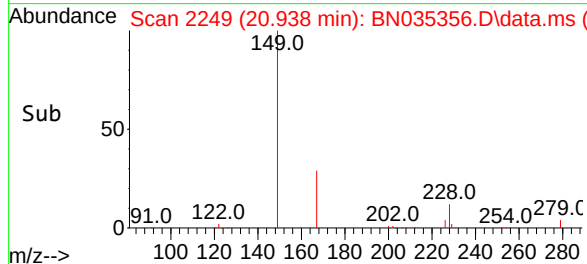
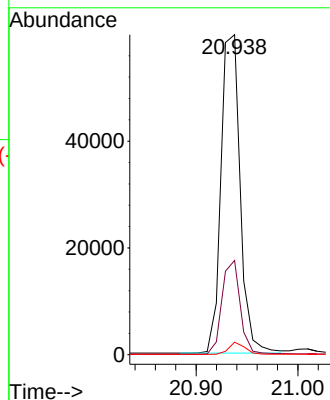
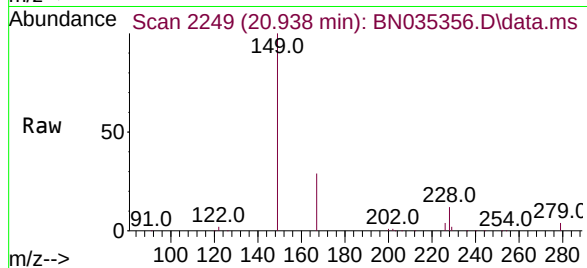




#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

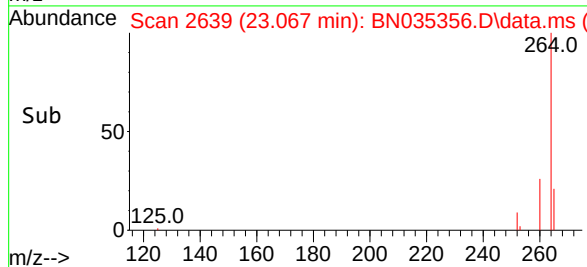
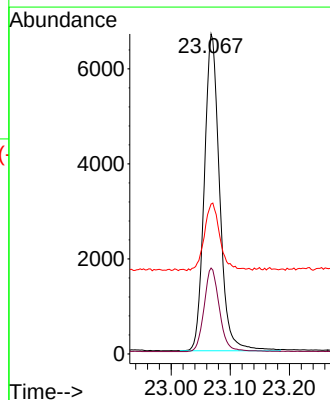
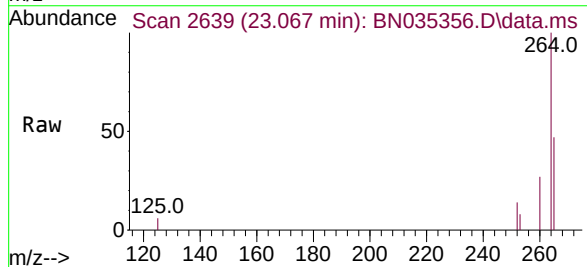
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

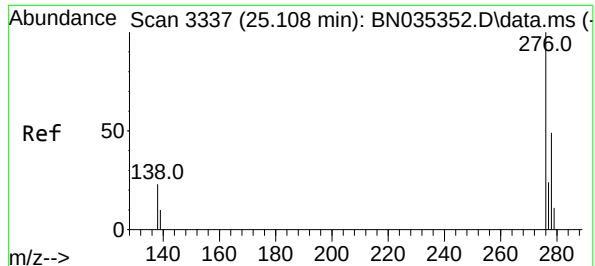
Tgt Ion:149 Resp: 78322
Ion Ratio Lower Upper
149 100
167 28.1 22.2 33.4
279 3.2 2.7 4.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 46.8 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.279 ng

RT: 25.108 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

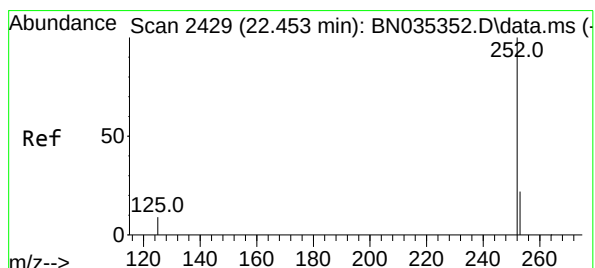
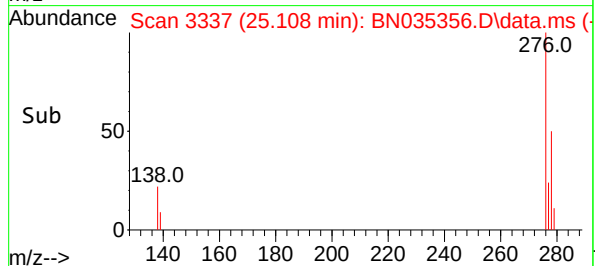
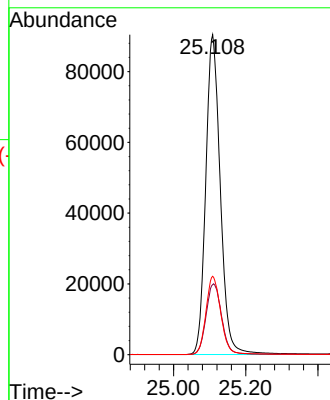
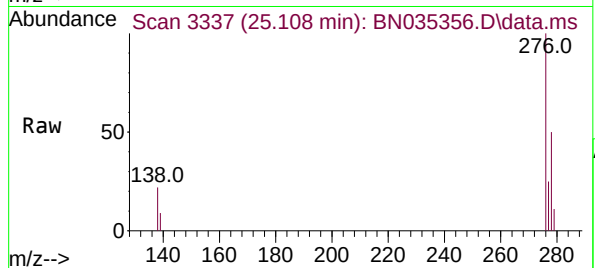
Tgt Ion:276 Resp: 252709

Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 25.0 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 5.974 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

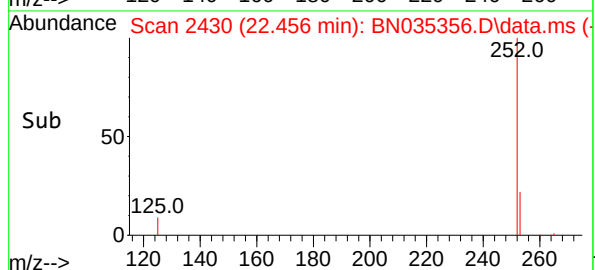
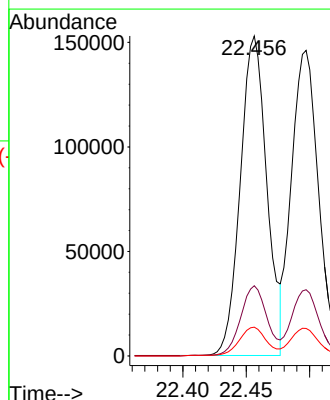
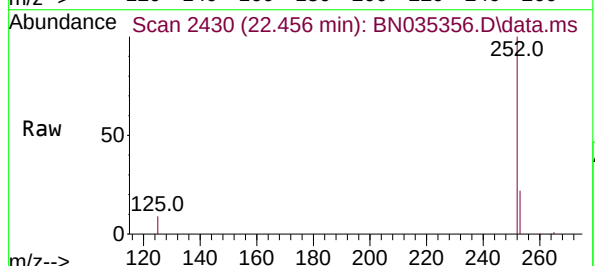
Tgt Ion:252 Resp: 241201

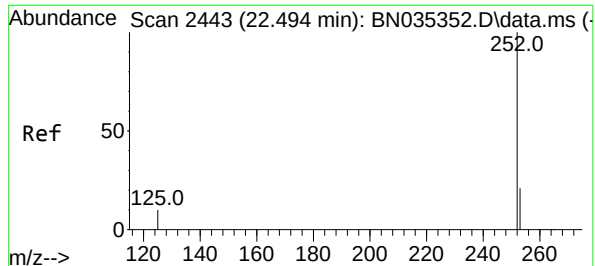
Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

125 9.0 9.6 14.4#





#38

Benzo(k)fluoranthene

Concen: 5.449 ng

RT: 22.497 min Scan# 2444

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

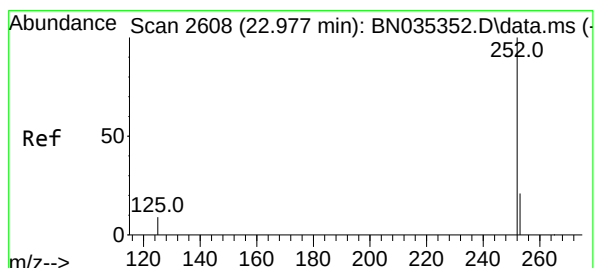
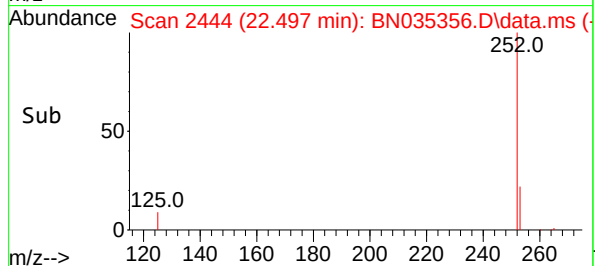
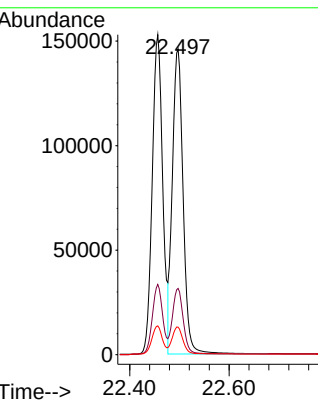
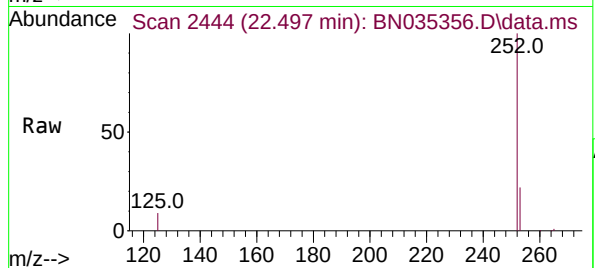
Tgt Ion:252 Resp: 220146

Ion Ratio Lower Upper

252 100

253 21.7 19.5 29.3

125 9.0 10.2 15.4#



#39

Benzo(a)pyrene

Concen: 5.367 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

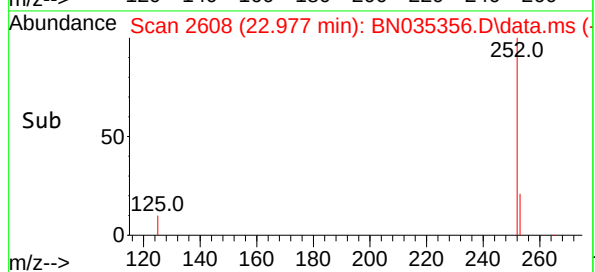
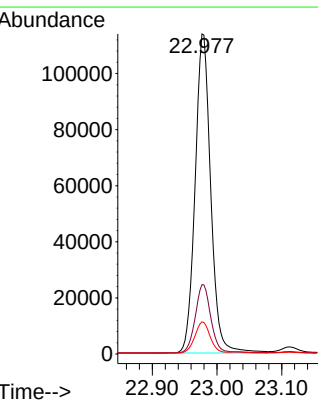
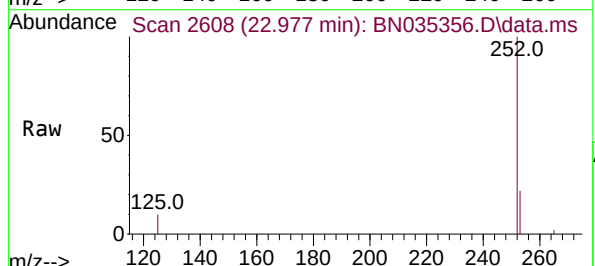
Tgt Ion:252 Resp: 190665

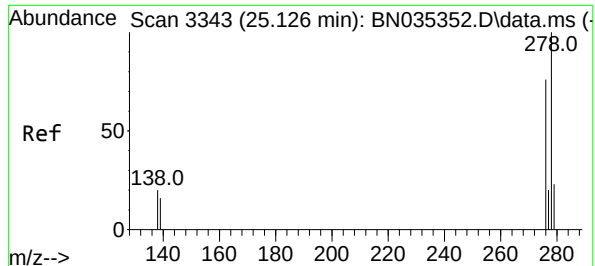
Ion Ratio Lower Upper

252 100

253 21.6 20.2 30.4

125 10.0 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 5.269 ng

RT: 25.126 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

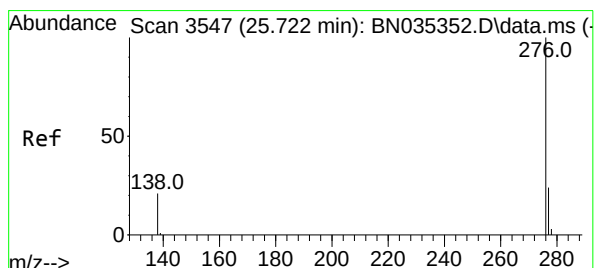
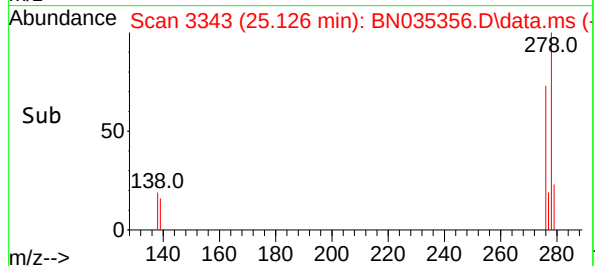
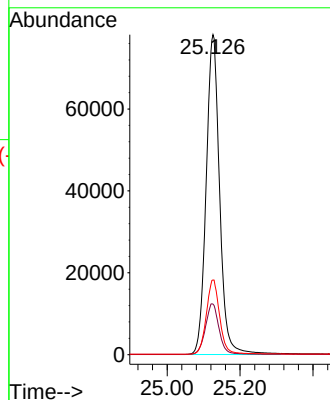
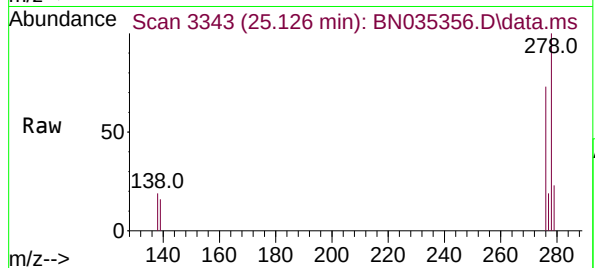
Tgt Ion:278 Resp: 199852

Ion Ratio Lower Upper

278 100

139 15.8 14.2 21.4

279 23.3 20.5 30.7



#41

Benzo(g,h,i)perylene

Concen: 5.183 ng

RT: 25.725 min Scan# 3548

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

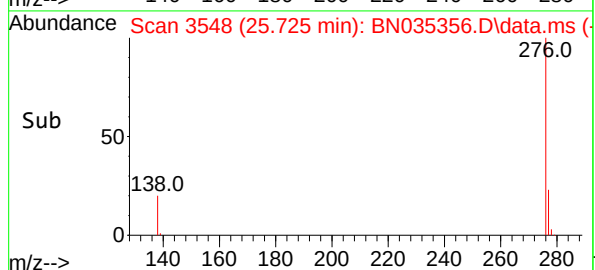
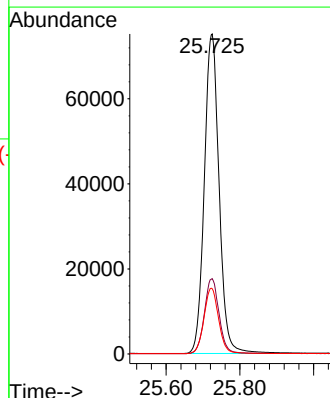
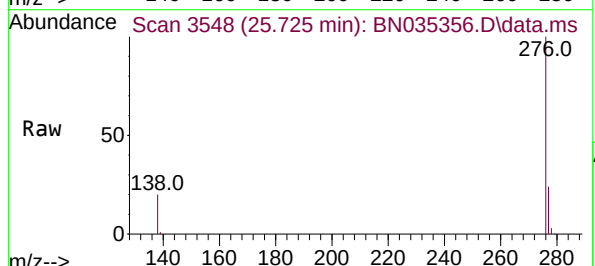
Tgt Ion:276 Resp: 209119

Ion Ratio Lower Upper

276 100

277 23.5 19.9 29.9

138 20.4 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035357.D
 Acq On : 27 Nov 2024 20:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 23:06:03 2024

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 23:03:24 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng	0.00
35) Perylene-d12	23.067	264	8338	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1280	0.332	ng	0.00
5) Phenol-d6	6.513	99	1437	0.310	ng	0.00
8) Nitrobenzene-d5	8.440	82	938m	0.393	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng	0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng	0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng	0.00
Target Compounds						
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

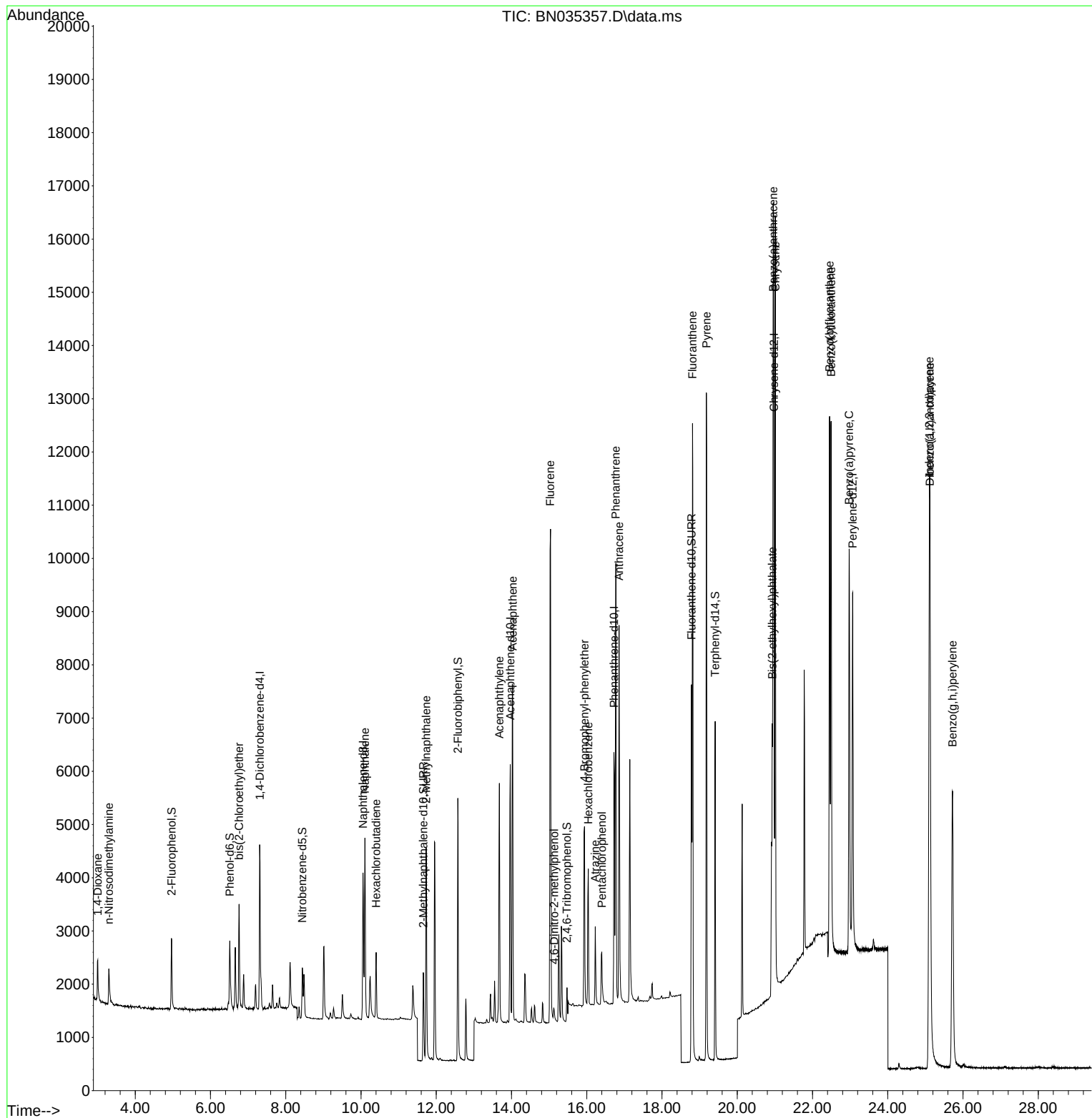
Manual Integrations

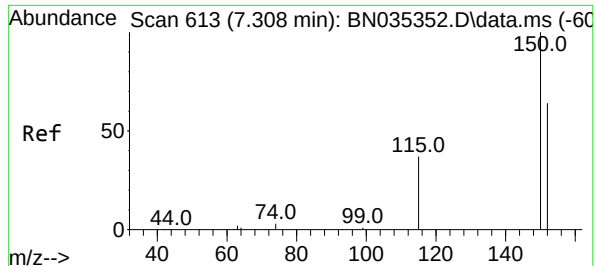
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

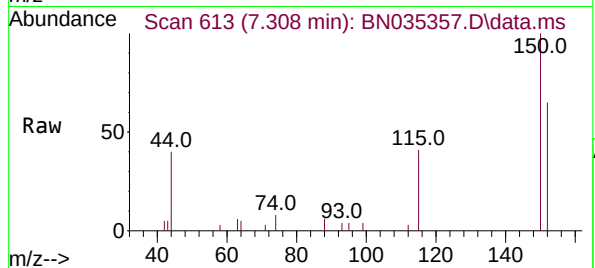
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#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

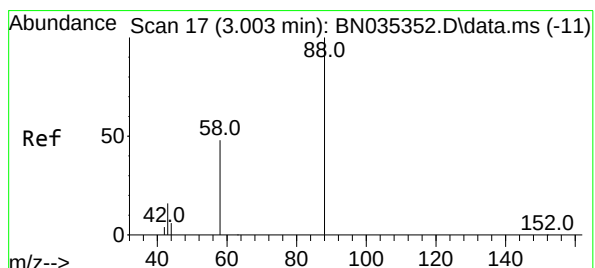
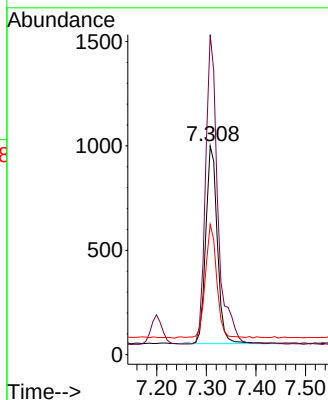
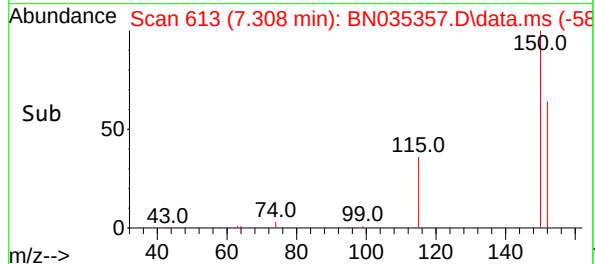
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

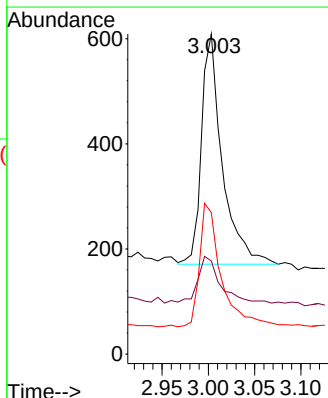
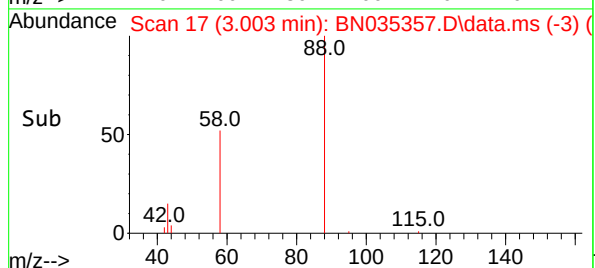
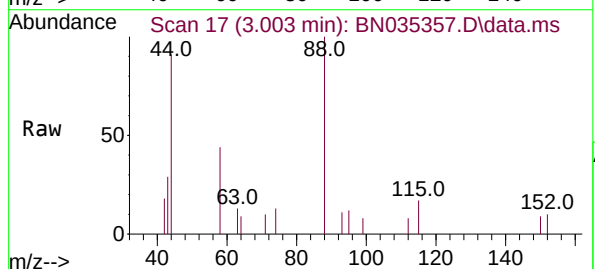
Manual Integrations
APPROVED

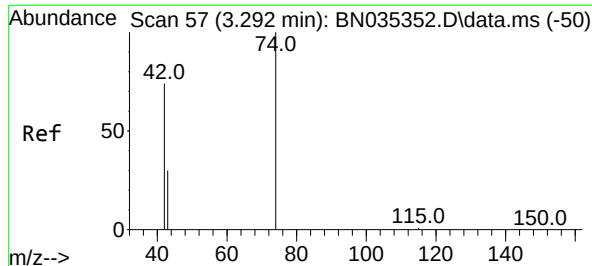
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

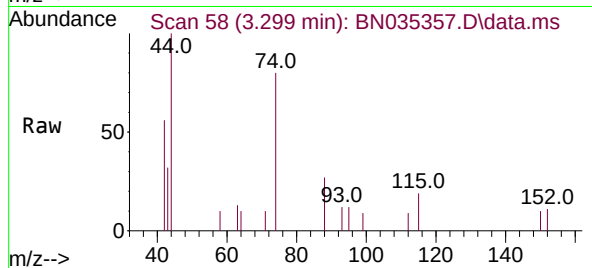
Tgt Ion: 88 Resp: 684
Ion Ratio Lower Upper
88 100
43 21.8 17.2 25.8
58 56.0 44.5 66.7





#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

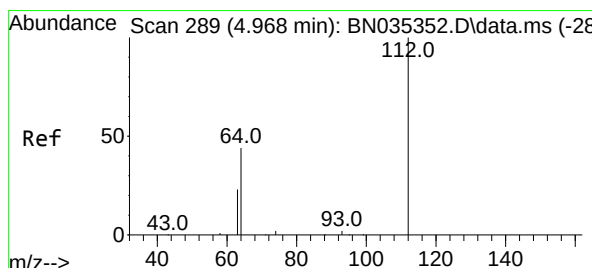
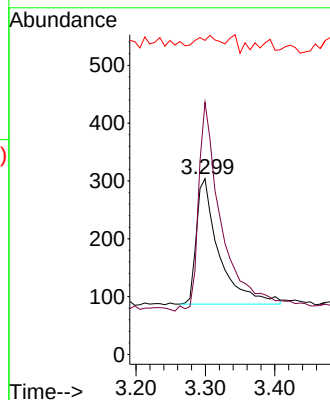
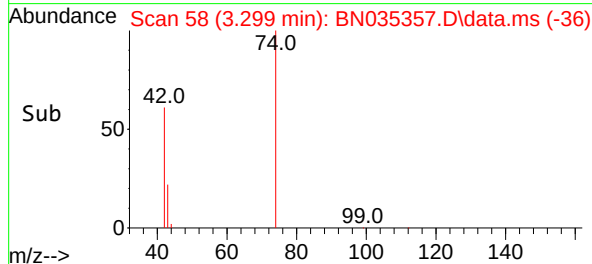
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion: 42 Resp: 49
Ion Ratio Lower Upper
42 100
74 172.1 124.9 187.3
44 6.3 2.2 3.4

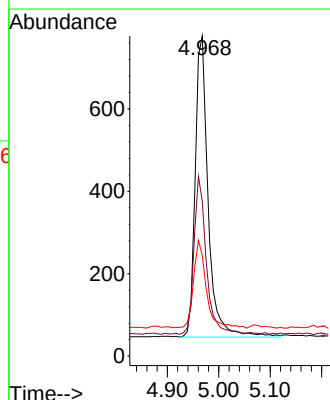
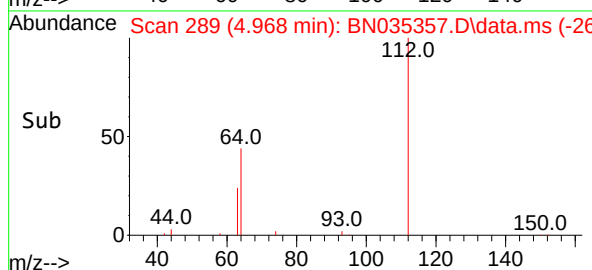
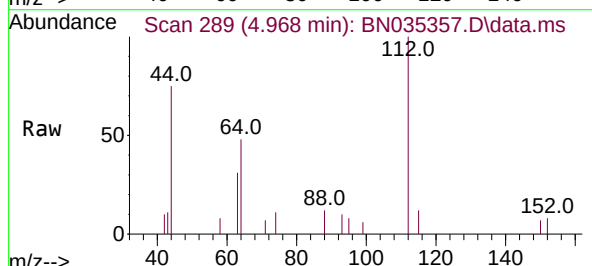
Manual Integrations
APPROVED

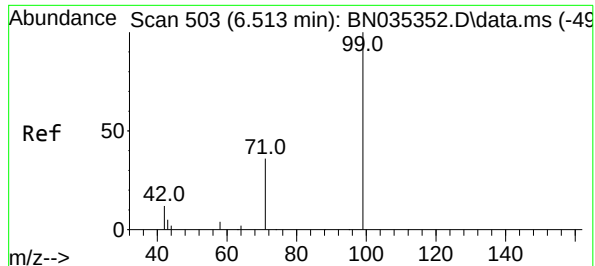
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





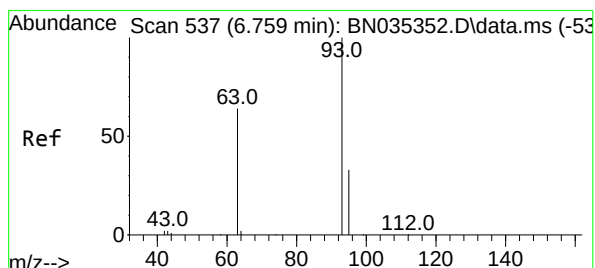
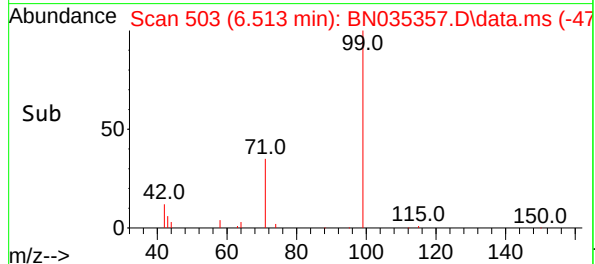
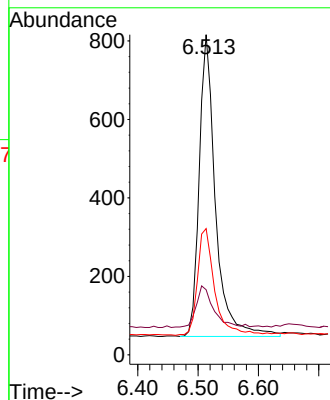
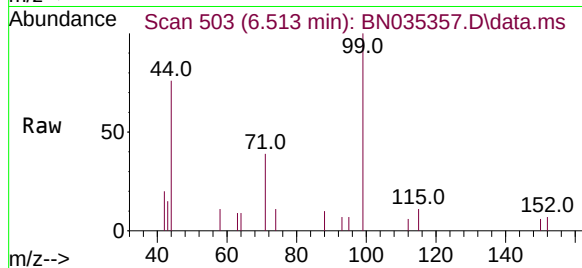
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

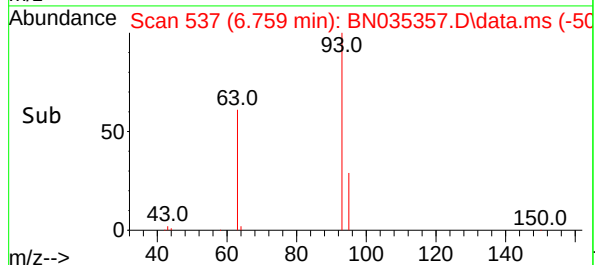
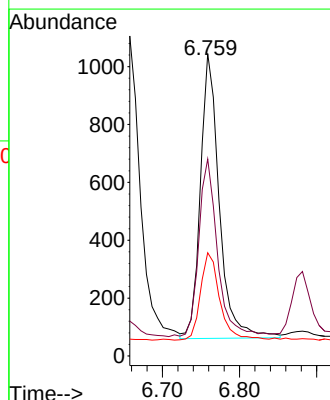
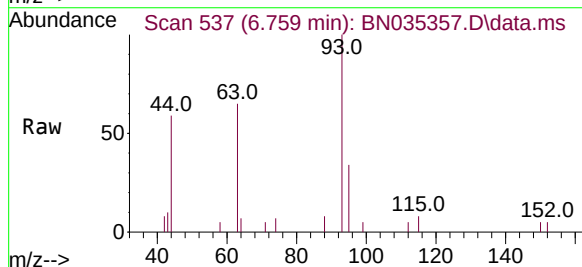
Manual Integrations
APPROVED

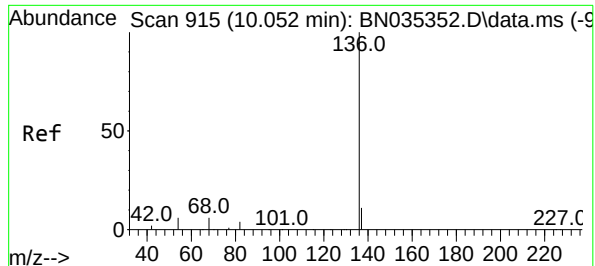
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





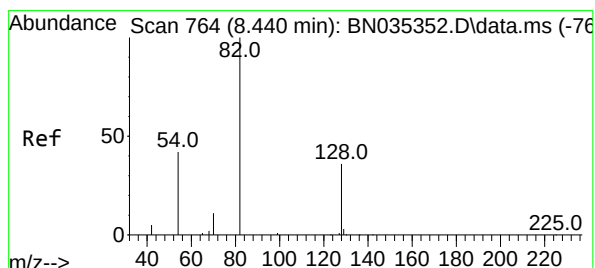
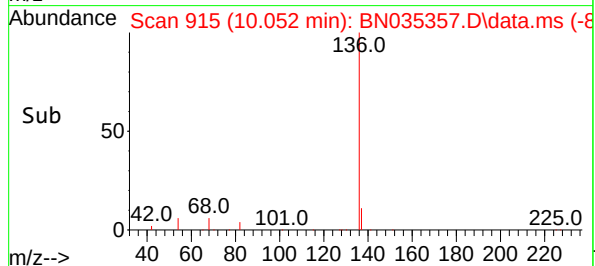
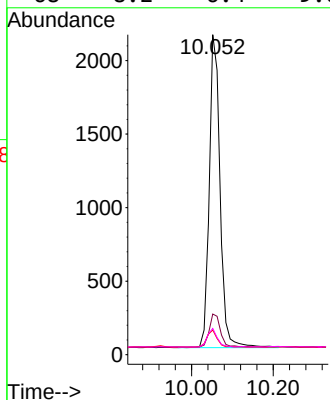
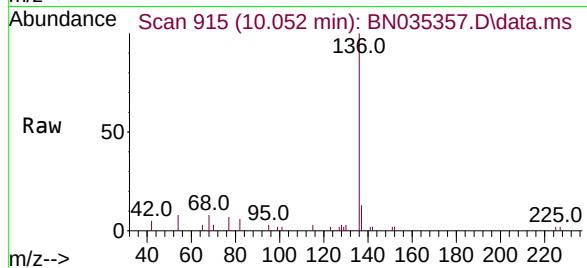
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:	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

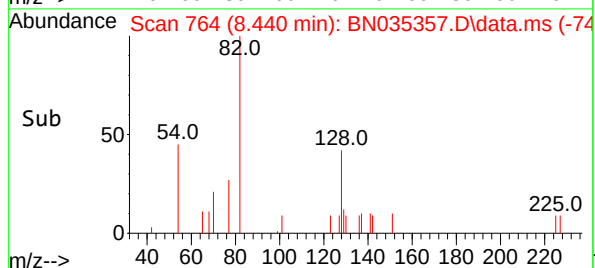
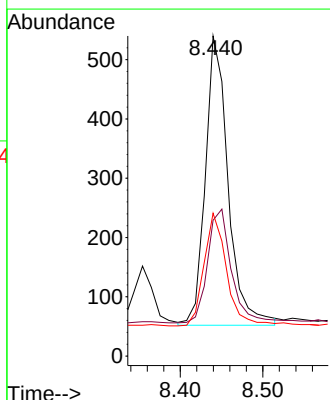
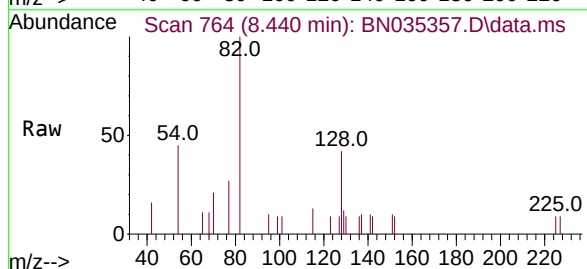
Manual Integrations
APPROVED

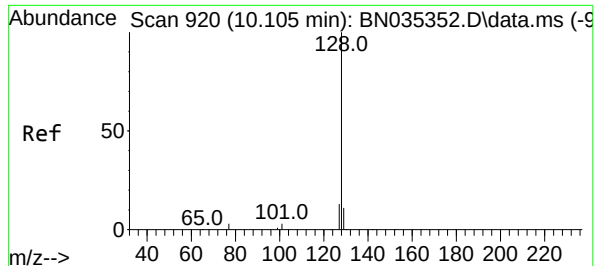
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:	82	Resp:	938
Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1





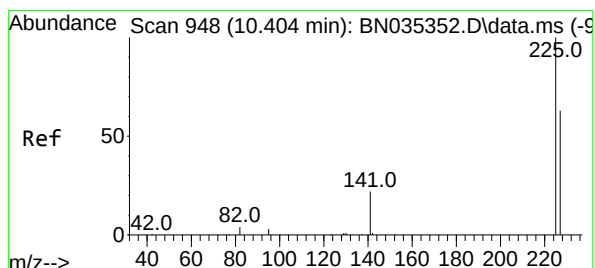
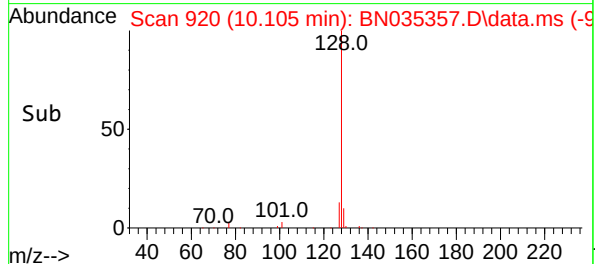
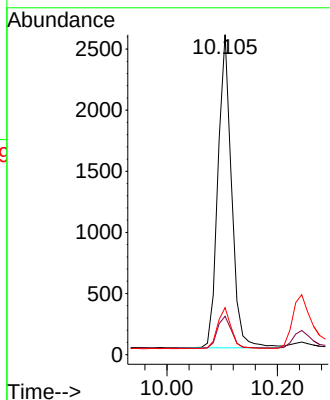
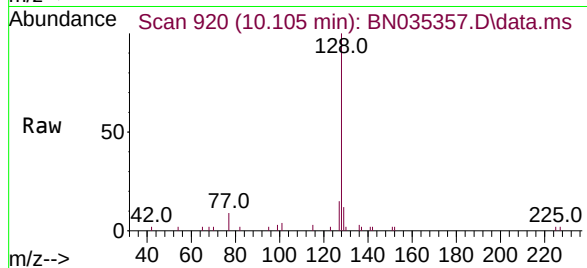
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

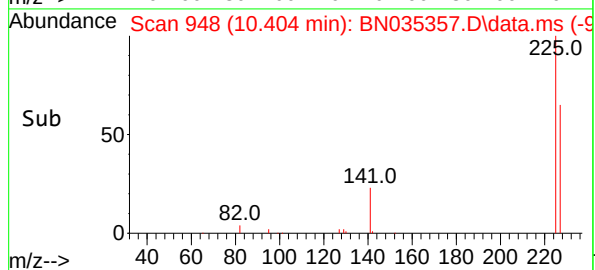
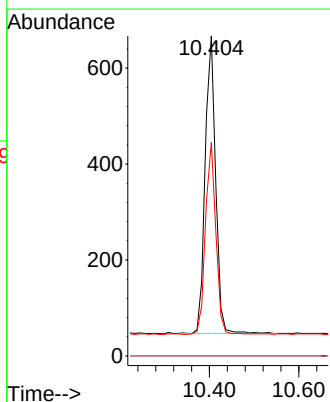
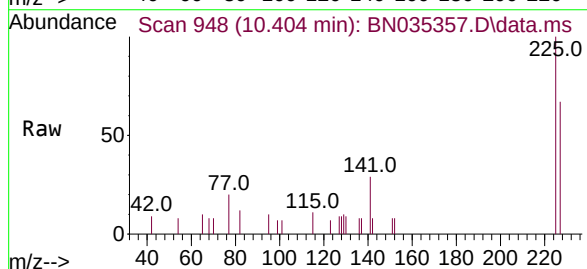
Manual Integrations
APPROVED

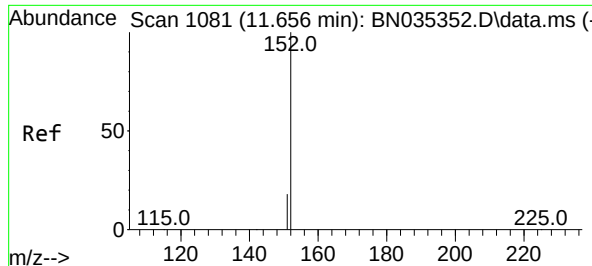
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

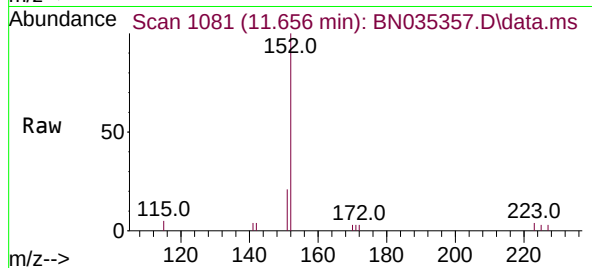
Tgt Ion:225 Resp: 1005
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9





#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

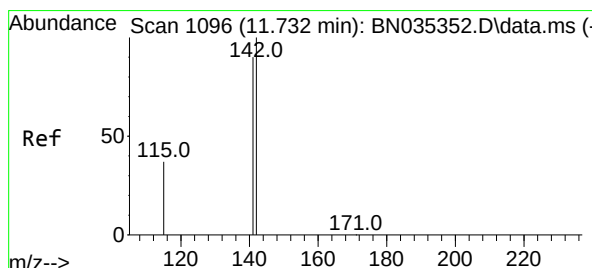
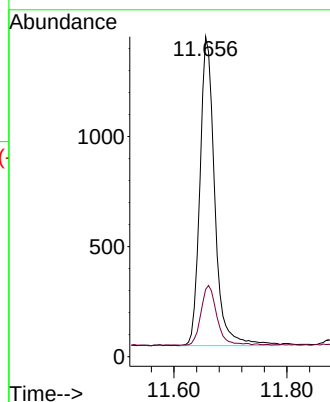
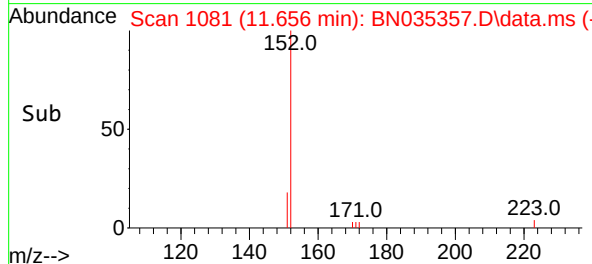
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

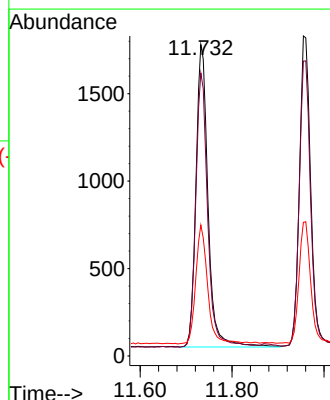
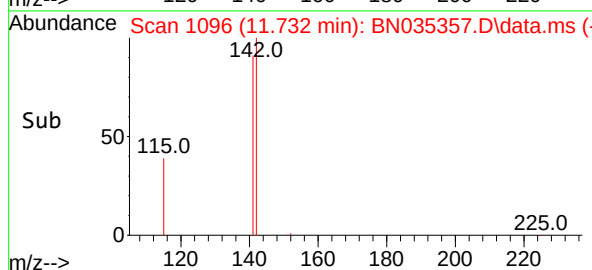
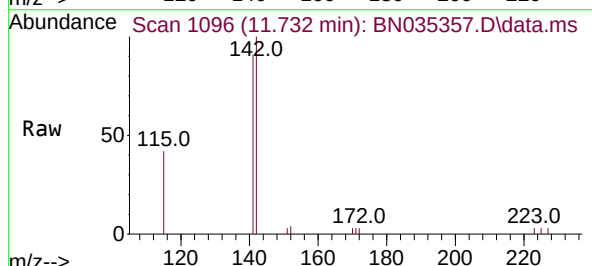
Manual Integrations
APPROVED

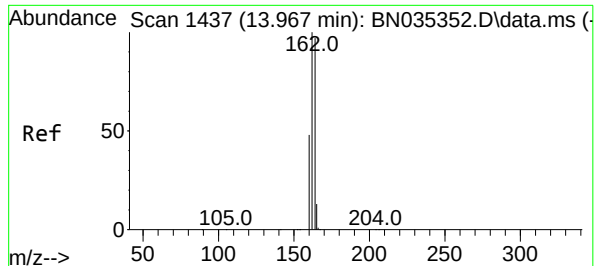
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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 :

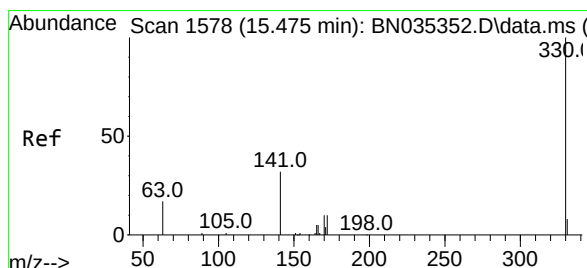
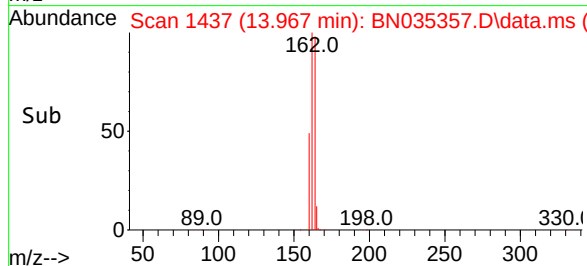
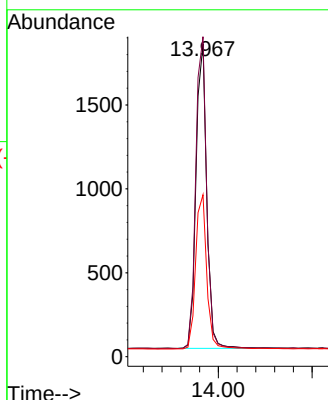
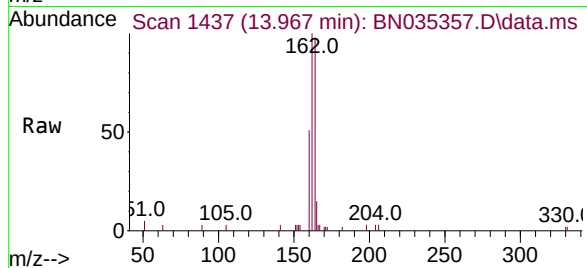
ICVBN112724

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

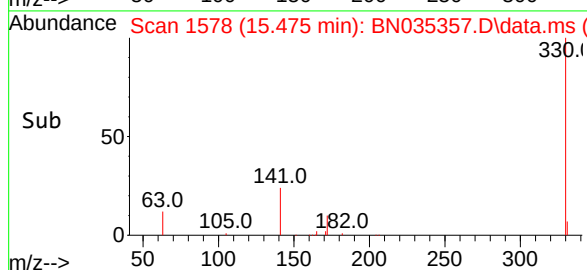
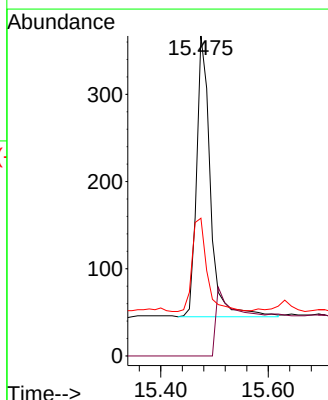
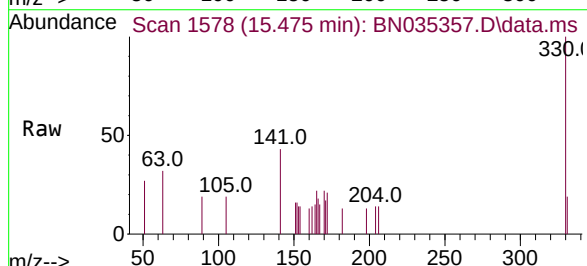
RT: 15.475 min Scan# 1578

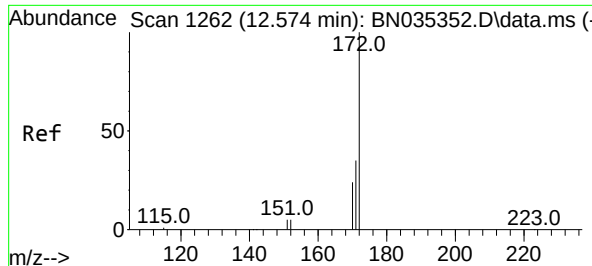
Delta R.T. -0.000 min

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# 11

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

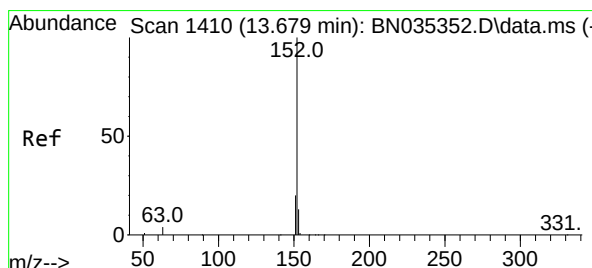
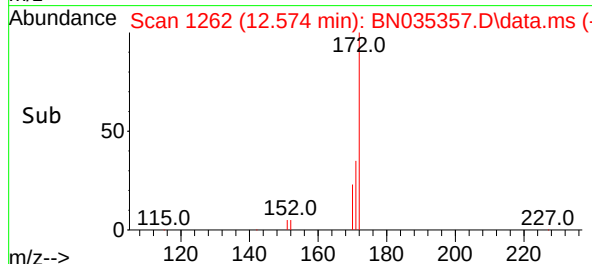
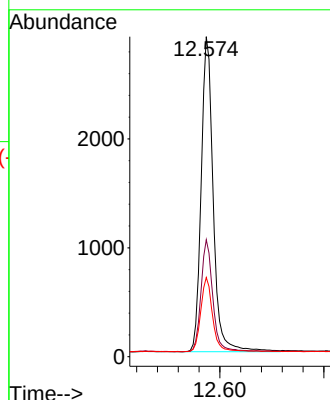
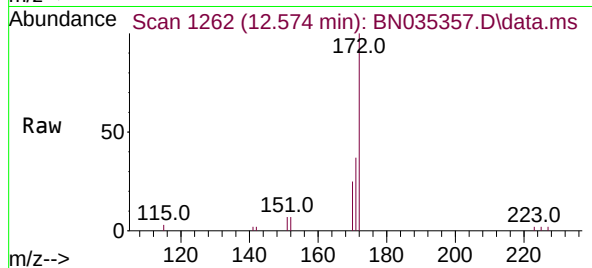
ICVBN112724

Tgt Ion:172	Resp:	464
Ion Ratio	Lower	Upper
172	100	
171	36.5	29.0 43.4
170	24.7	19.8 29.8

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.435 ng

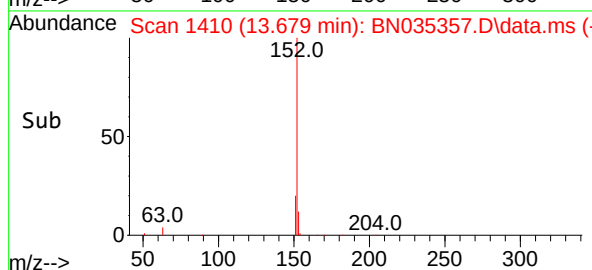
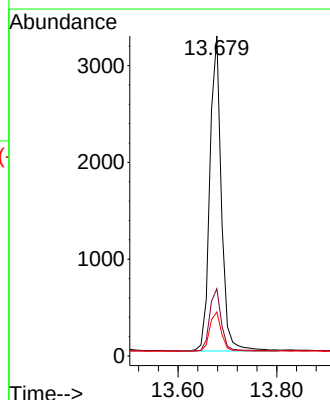
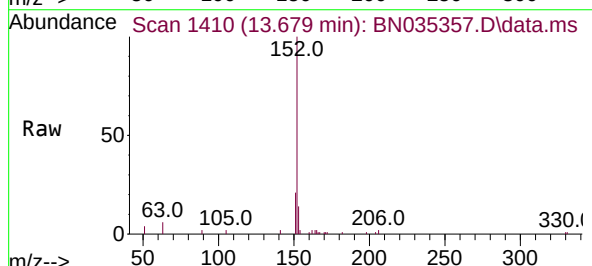
RT: 13.679 min Scan# 1410

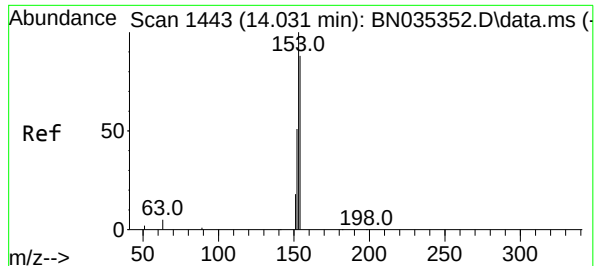
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

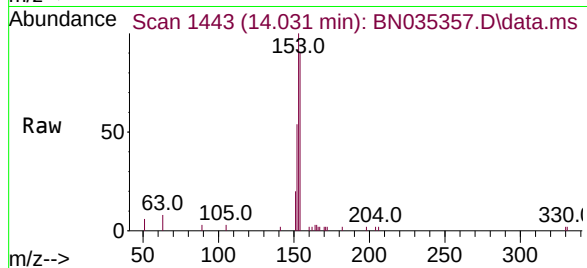
Tgt Ion:152	Resp:	5261
Ion Ratio	Lower	Upper
152	100	
151	20.1	16.2 24.2
153	12.7	10.4 15.6





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

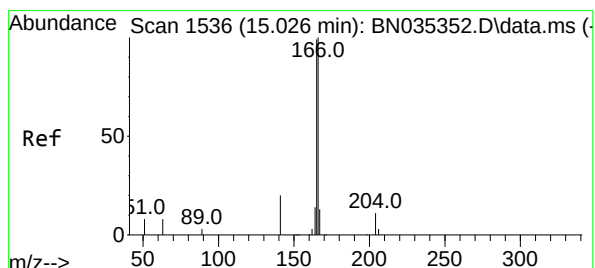
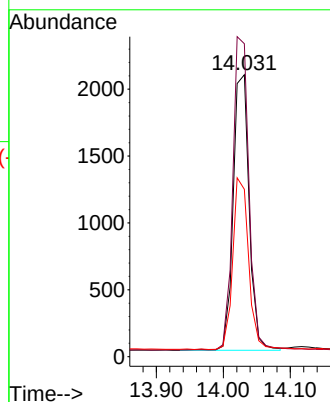
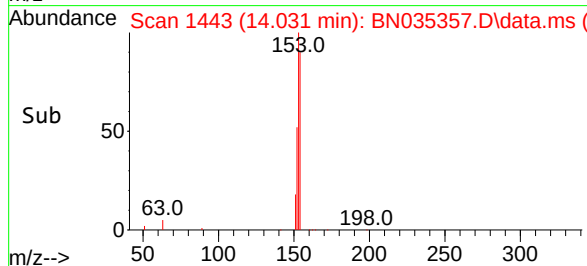
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:154 Resp: 342
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 61.9 49.0 73.6

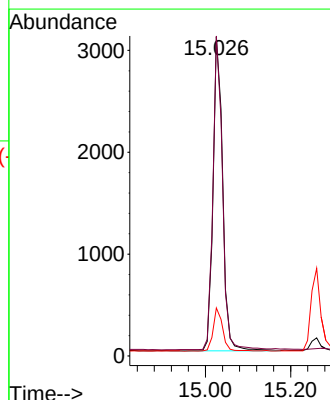
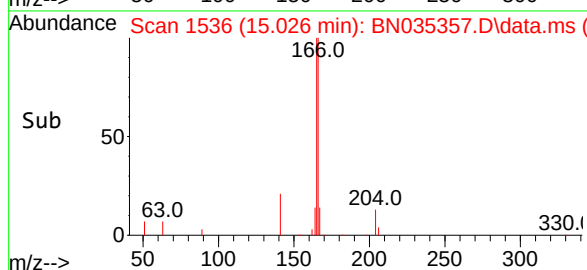
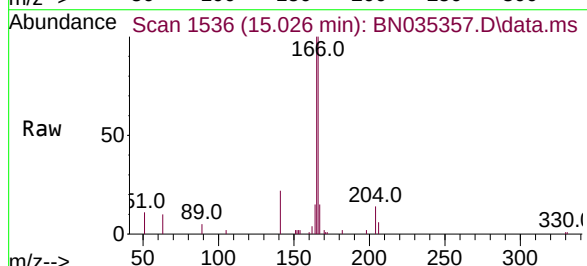
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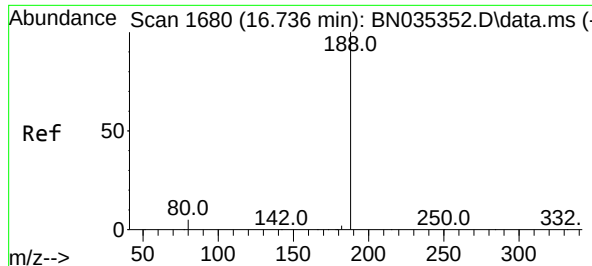
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 11

Delta R.T. -0.012 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

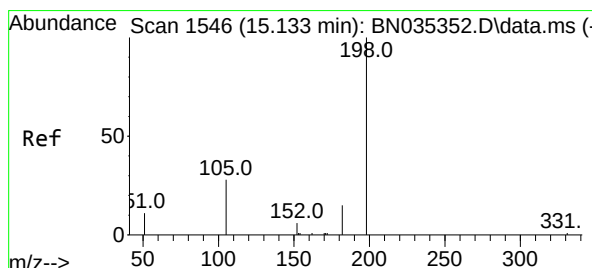
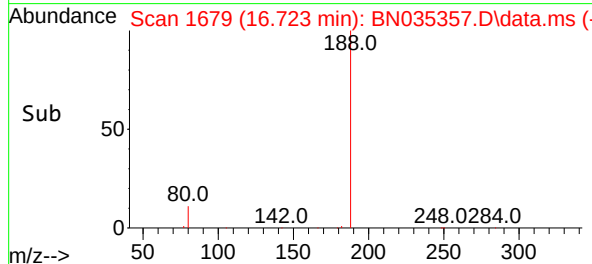
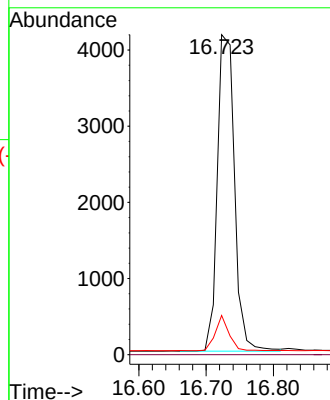
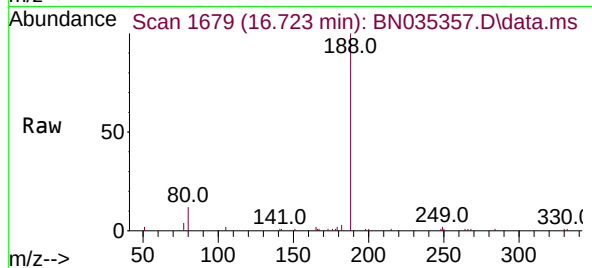
ICVBN112724

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

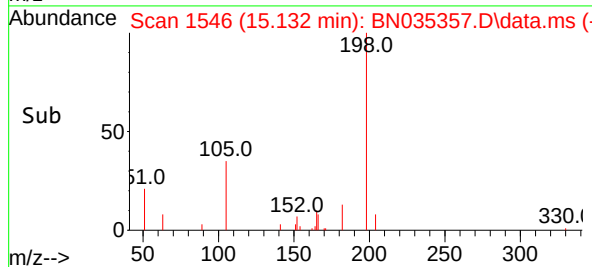
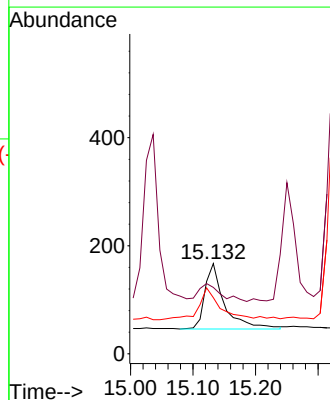
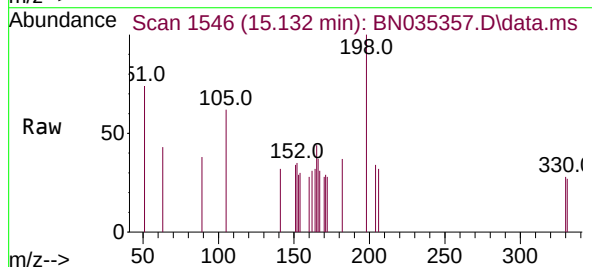
RT: 15.132 min Scan# 1546

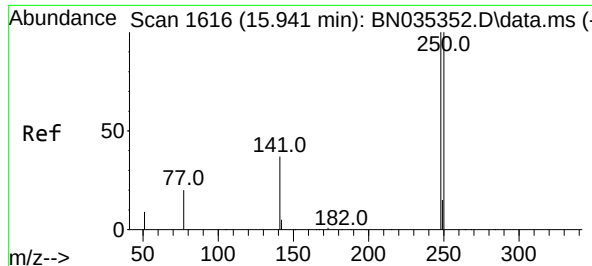
Delta R.T. -0.001 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt Ion	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

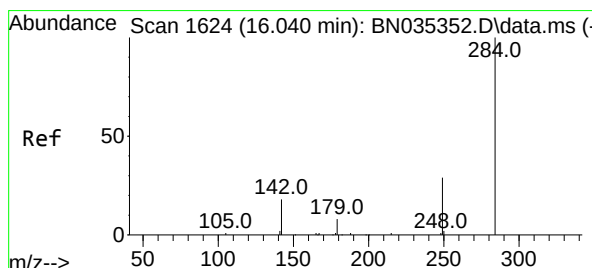
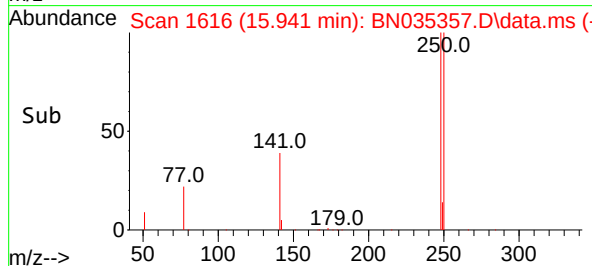
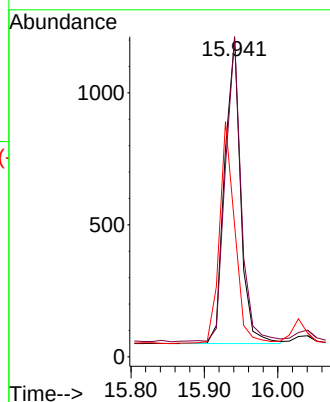
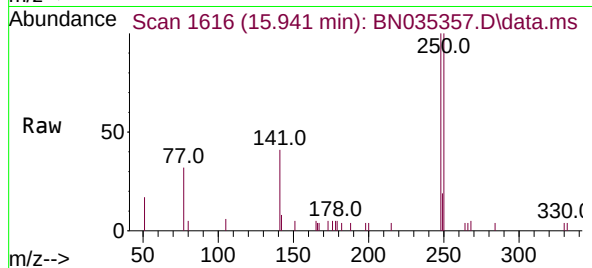
ClientSampleId :

ICVBN112724

Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3

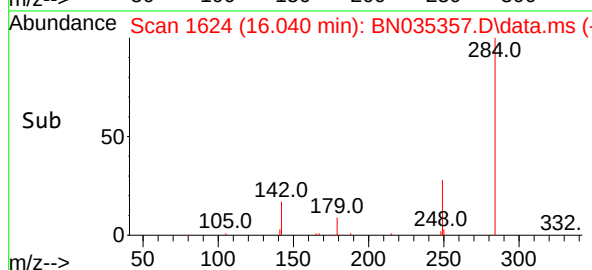
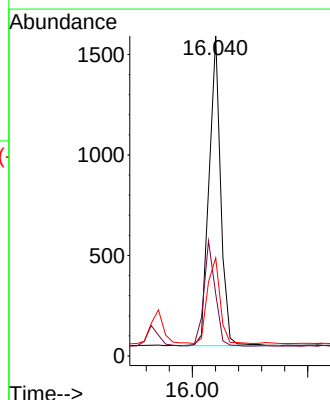
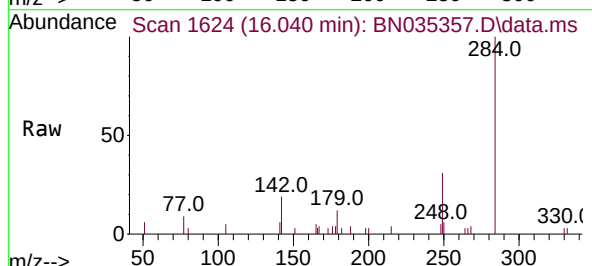
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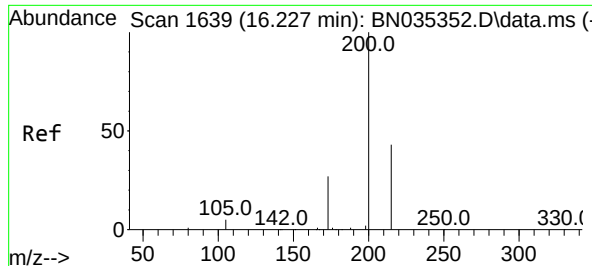
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#22
Hexachlorobenzene
Concen: 0.426 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	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8





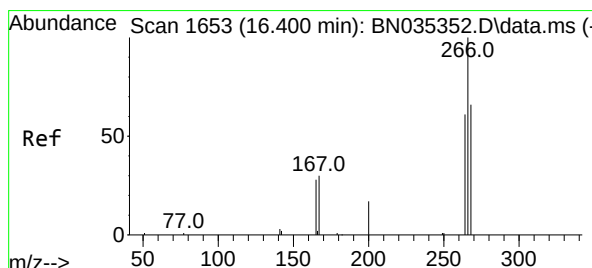
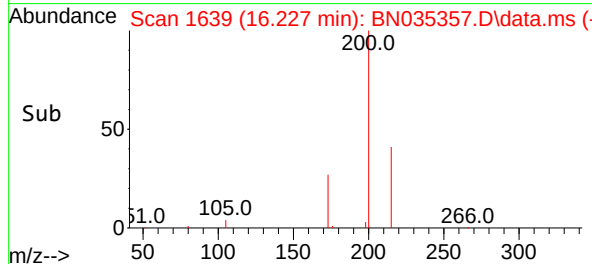
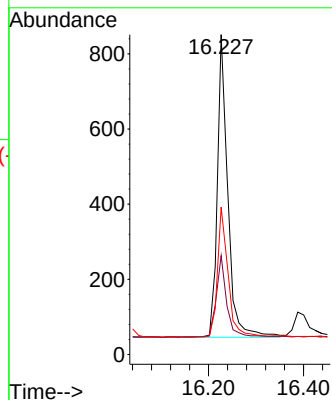
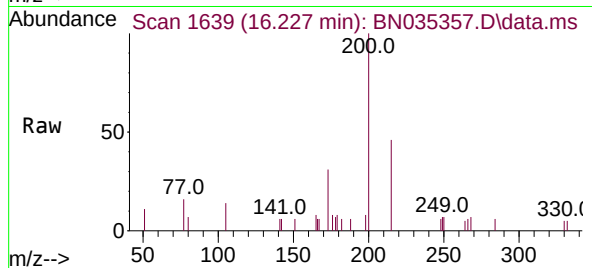
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:200 Resp: 122
Ion Ratio Lower Upper
200 100
173 30.9 24.1 36.1
215 46.1 36.9 55.3

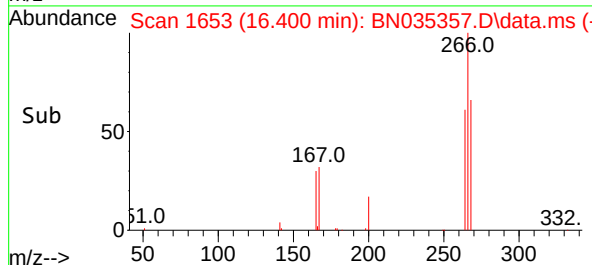
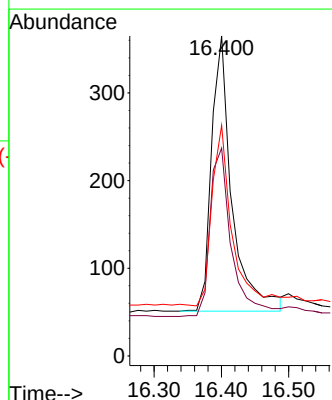
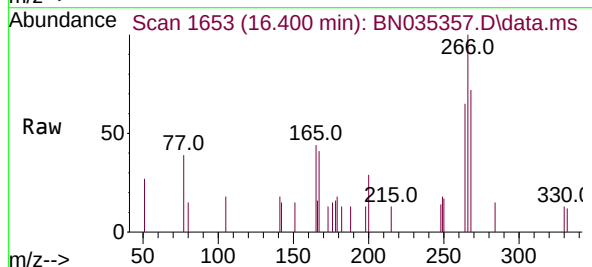
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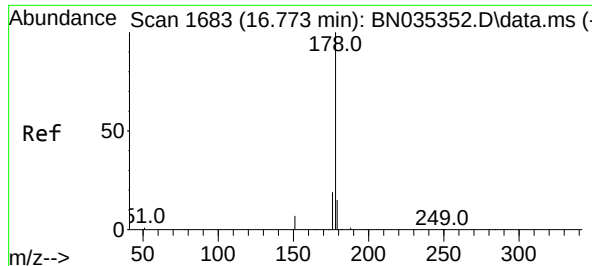
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

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





#25

Phenanthrene

Concen: 0.421 ng

RT: 16.773 min Scan# 1683

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

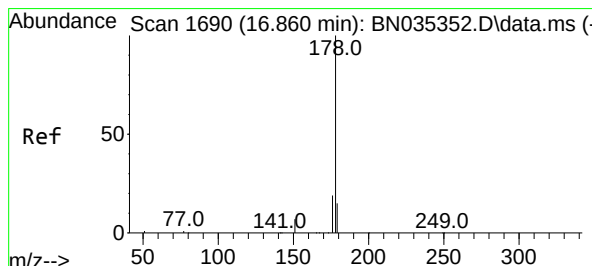
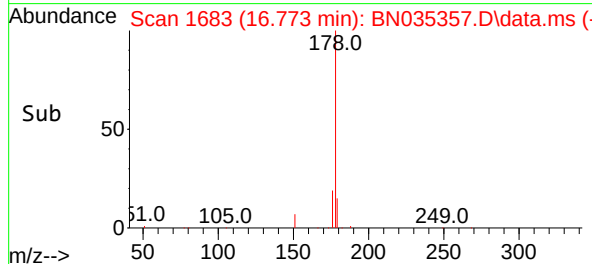
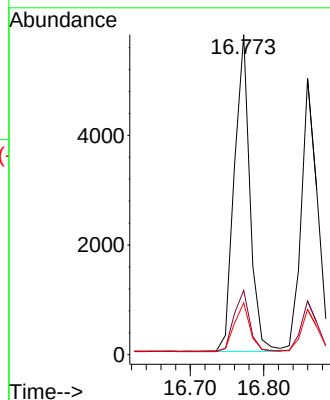
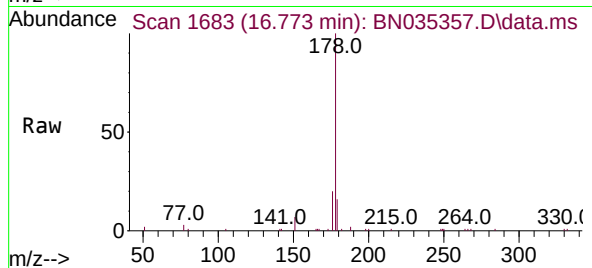
ICVBN112724

Tgt Ion:178	Resp:	8509
Ion Ratio	Lower	Upper
178	100	
176	19.6	15.4 23.2
179	15.4	12.3 18.5

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#26

Anthracene

Concen: 0.430 ng

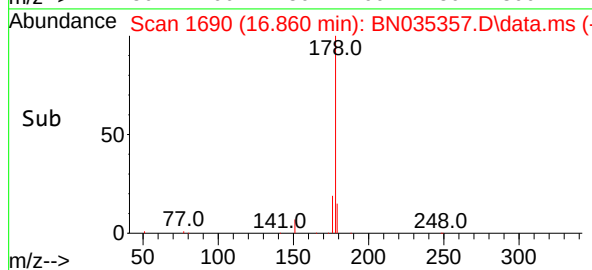
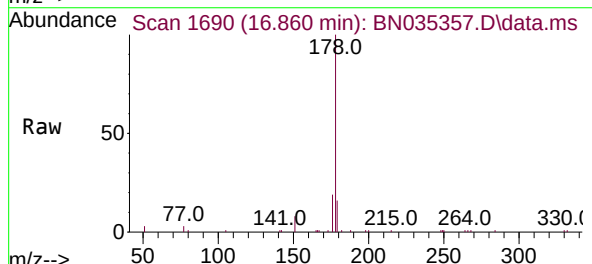
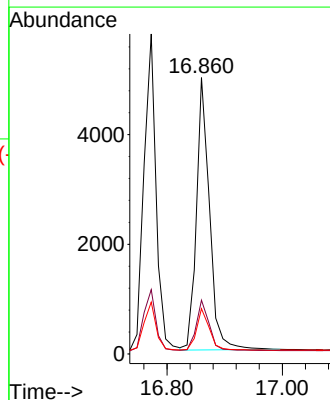
RT: 16.860 min Scan# 1690

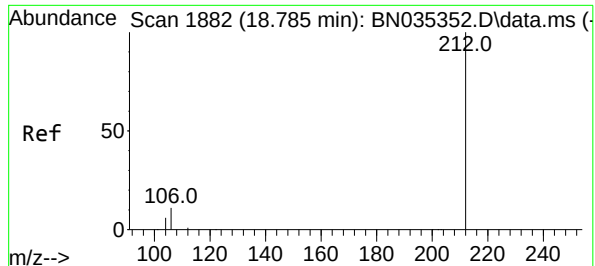
Delta R.T. -0.000 min

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 :

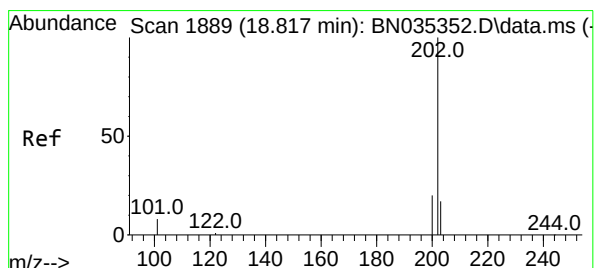
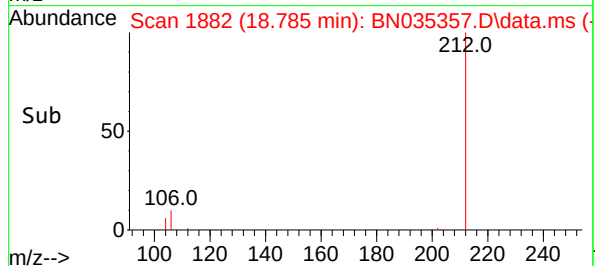
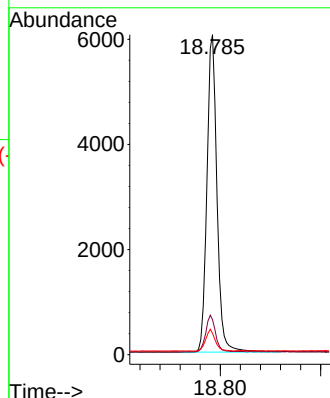
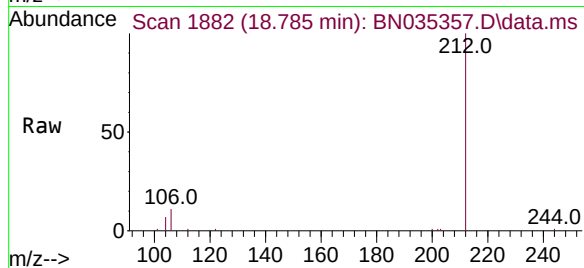
ICVBN112724

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
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.402 ng

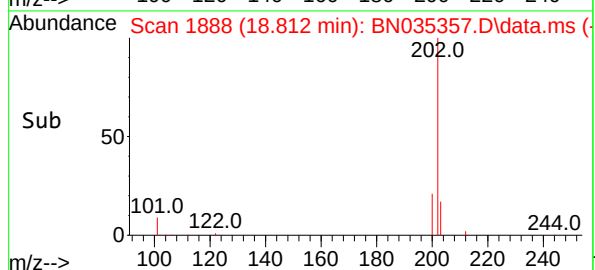
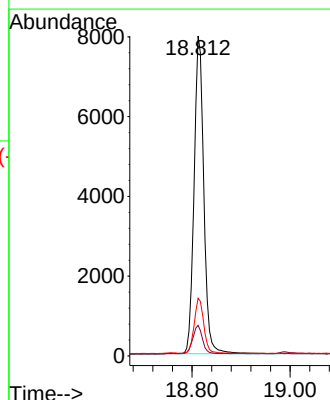
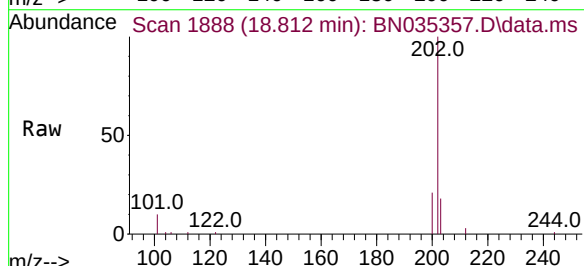
RT: 18.812 min Scan# 1888

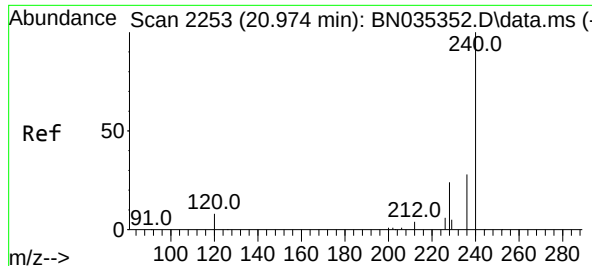
Delta R.T. -0.005 min

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

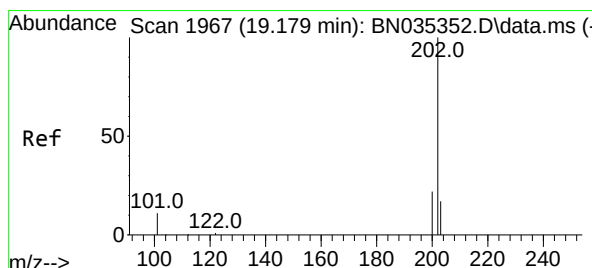
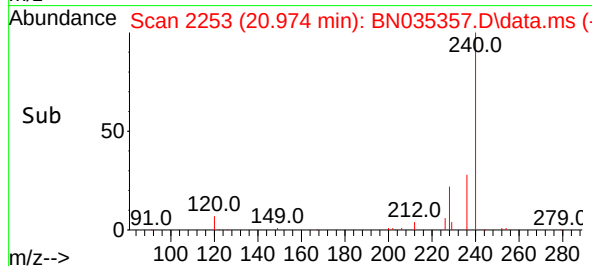
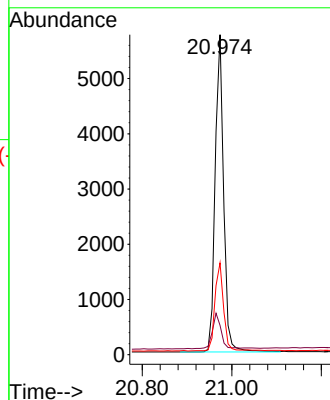
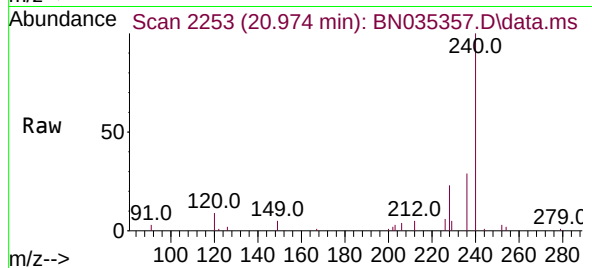
ClientSampleId :

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



#30

Pyrene

Concen: 0.410 ng

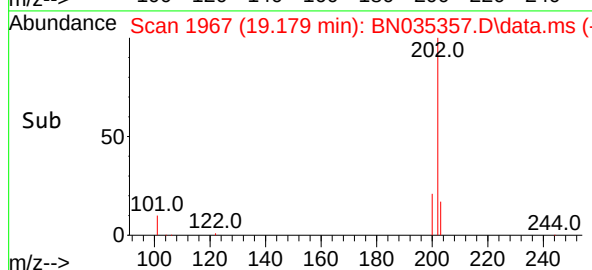
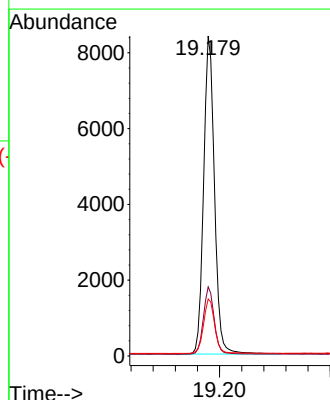
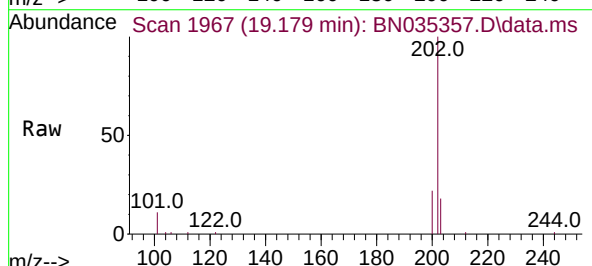
RT: 19.179 min Scan# 1967

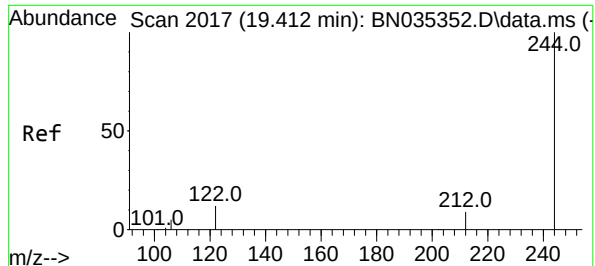
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt Ion:202	Resp:	11476
Ion Ratio	Lower	Upper
202	100	
200	20.9	17.0 25.4
203	17.8	14.3 21.5





#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

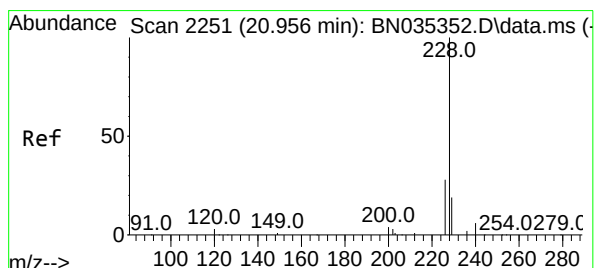
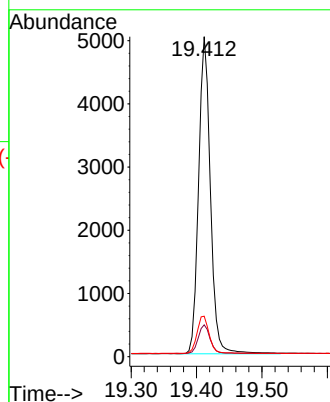
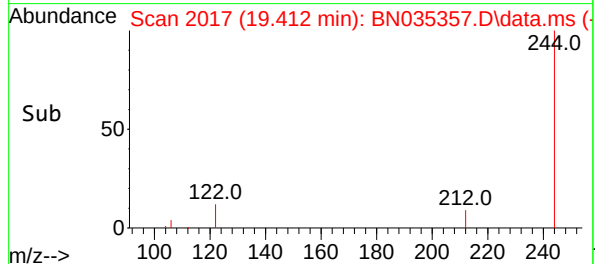
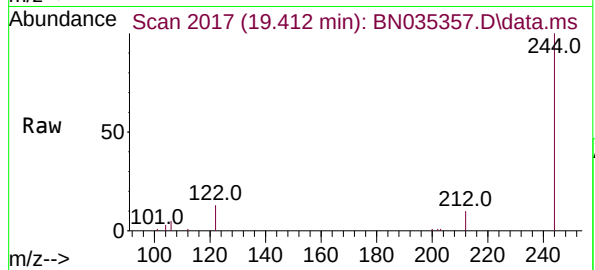
ClientSampleId :

ICVBN112724

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

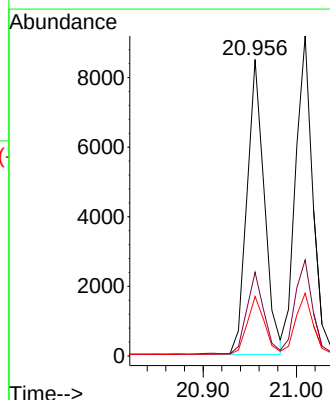
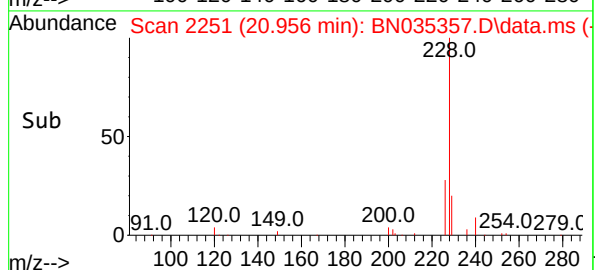
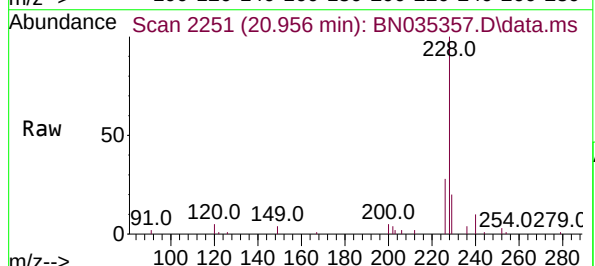
Manual Integrations
APPROVED

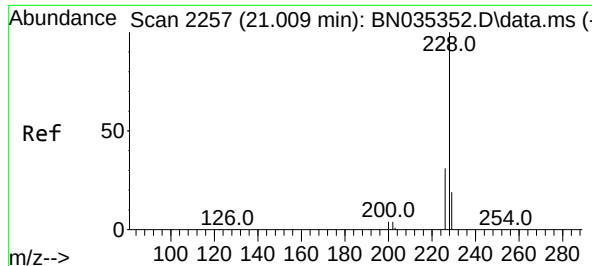
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

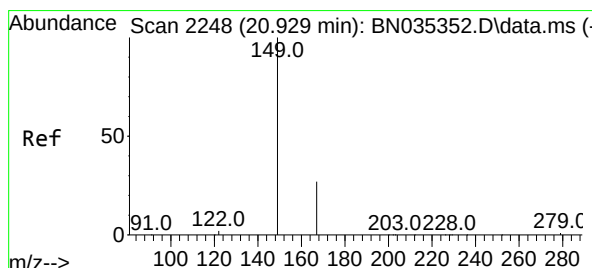
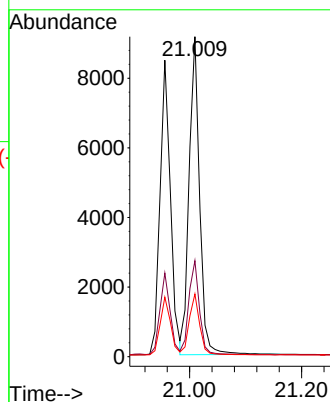
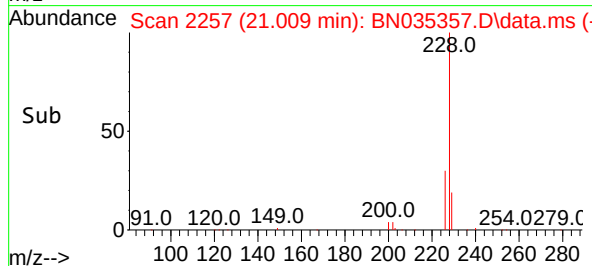
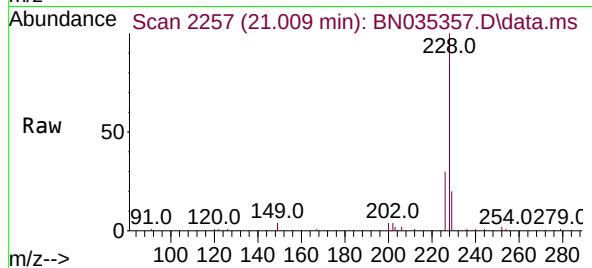
ClientSampleId :

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

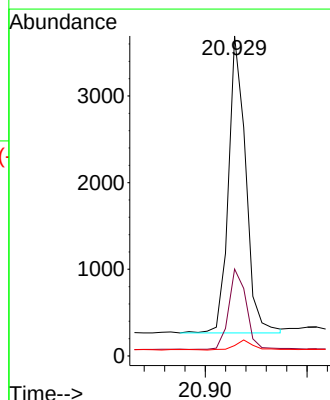
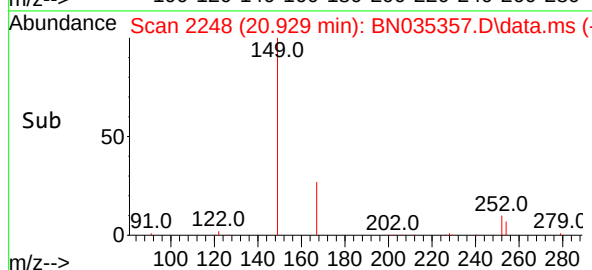
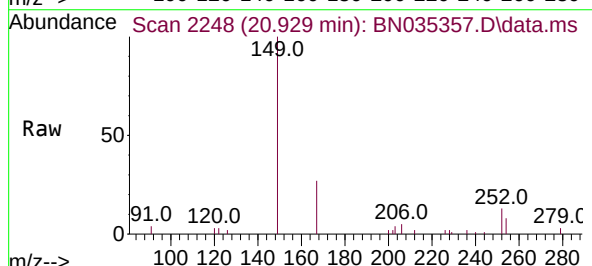
RT: 20.929 min Scan# 2248

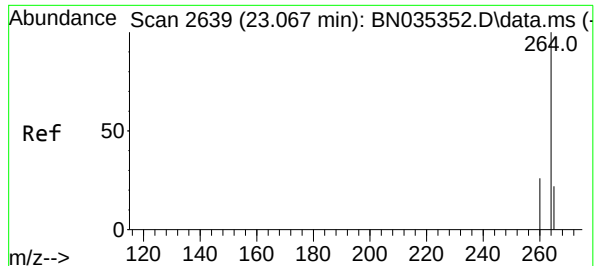
Delta R.T. -0.000 min

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

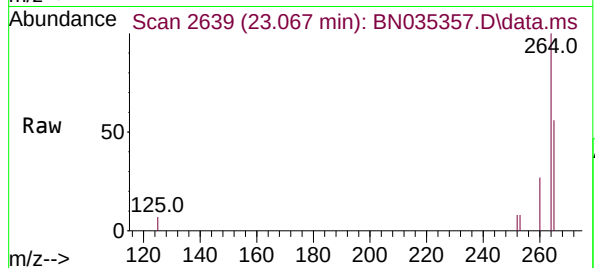
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



Tgt Ion:264 Resp: 8338

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

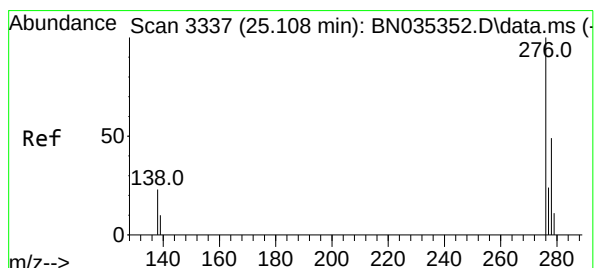
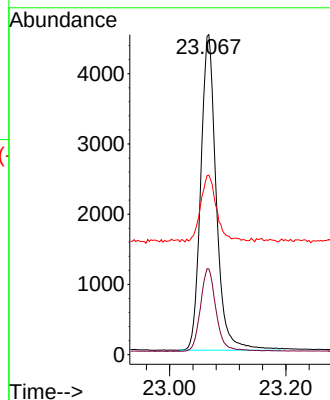
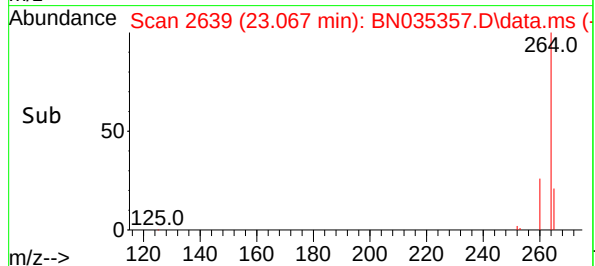
265 56.1 40.2 60.4

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

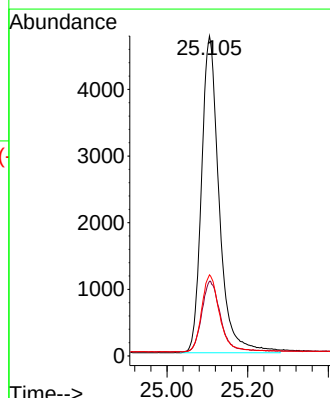
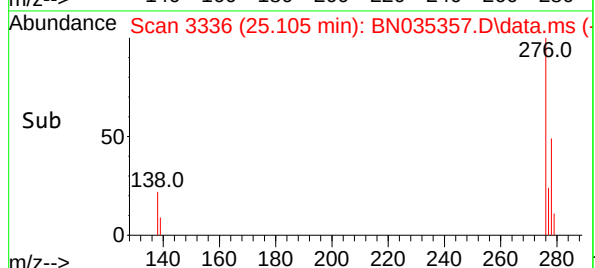
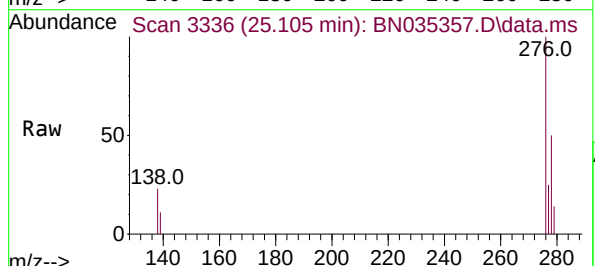
Tgt Ion:276 Resp: 14433

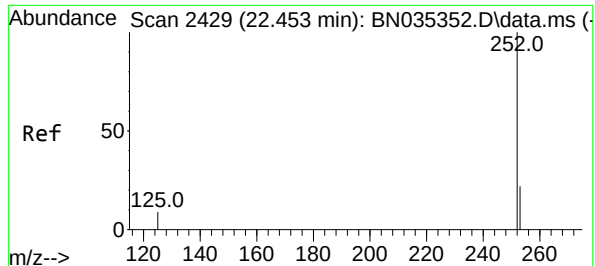
Ion Ratio Lower Upper

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

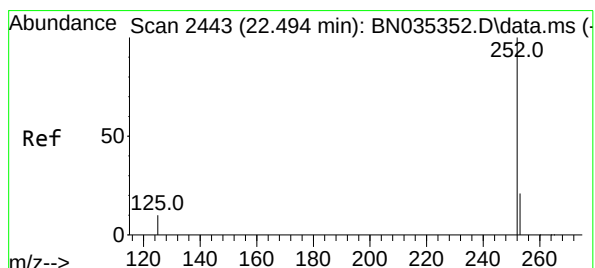
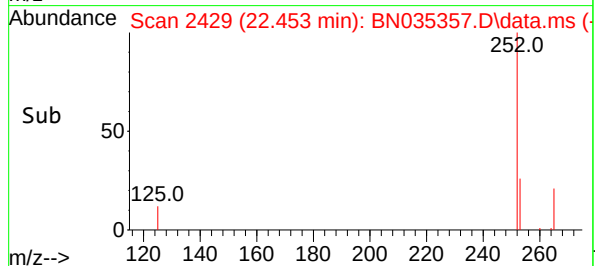
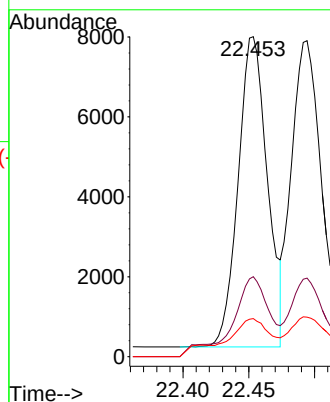
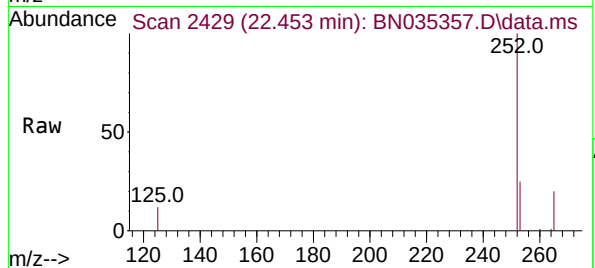
ClientSampleId :

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

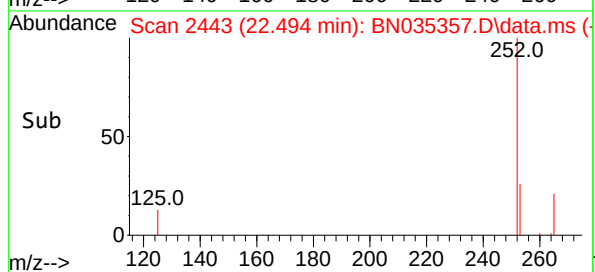
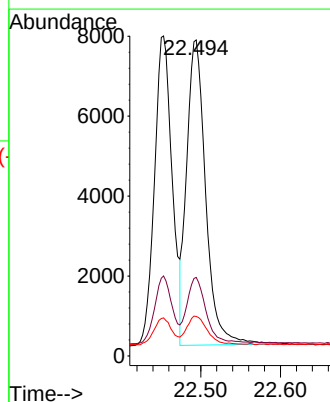
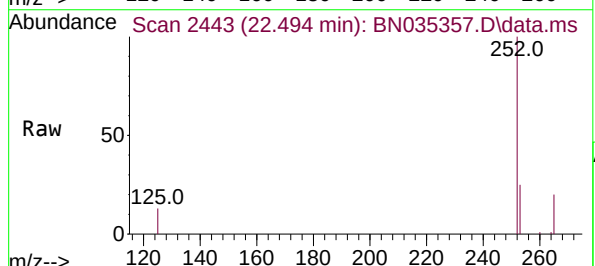
RT: 22.494 min Scan# 2443

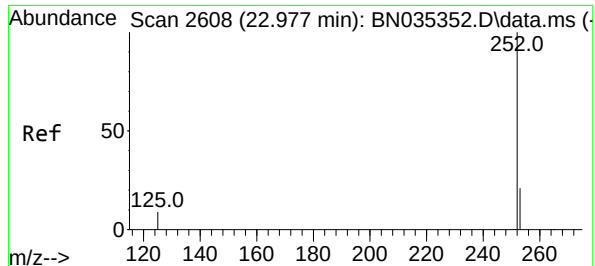
Delta R.T. -0.000 min

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

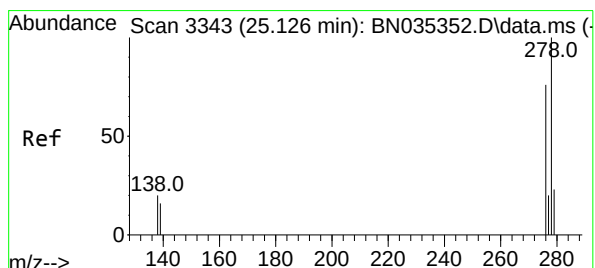
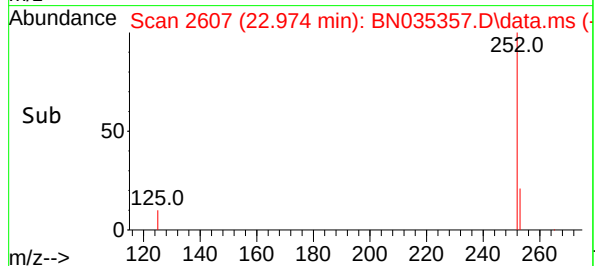
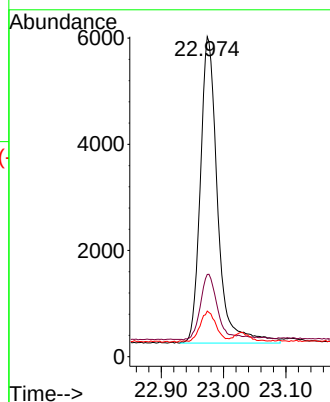
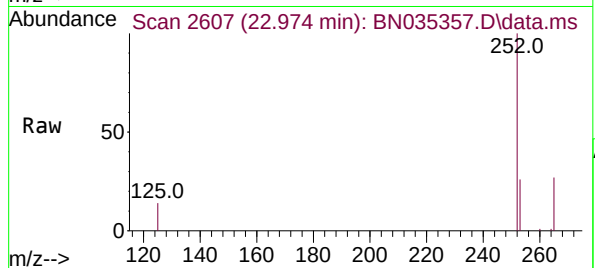
ClientSampleId :

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

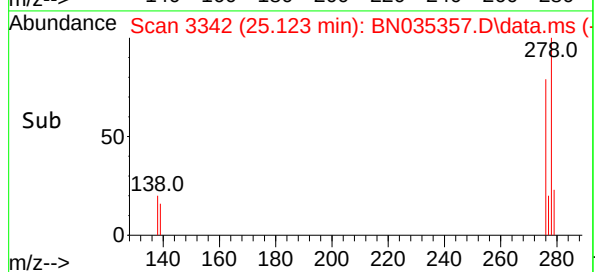
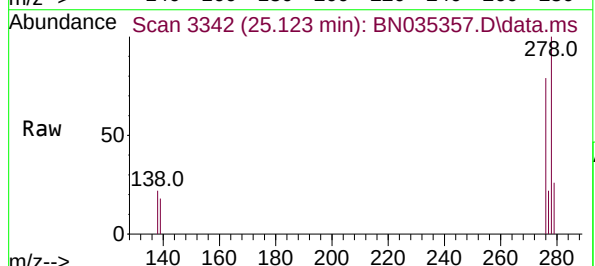
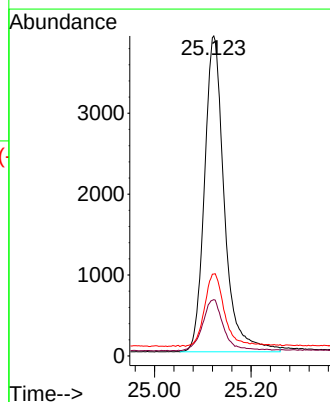
RT: 25.123 min Scan# 3342

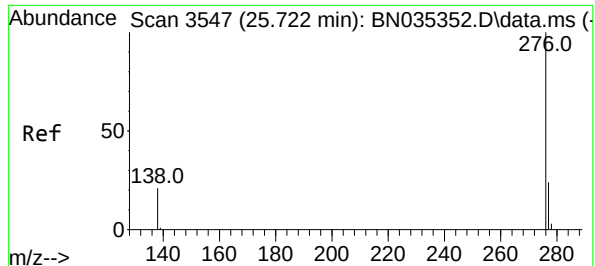
Delta R.T. -0.003 min

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# 3

Delta R.T. -0.000 min

Lab File: BN035357.D

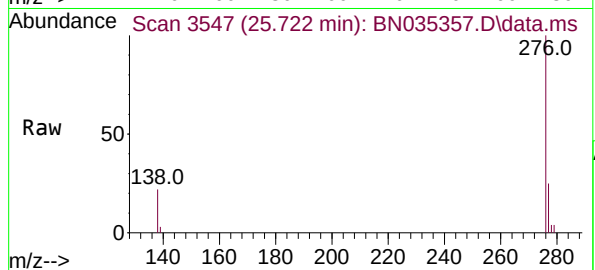
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

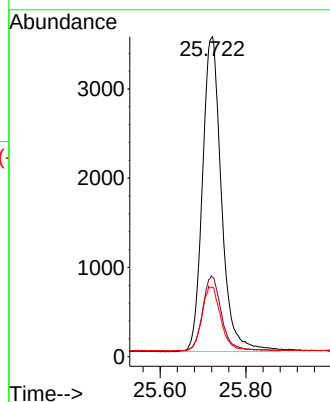
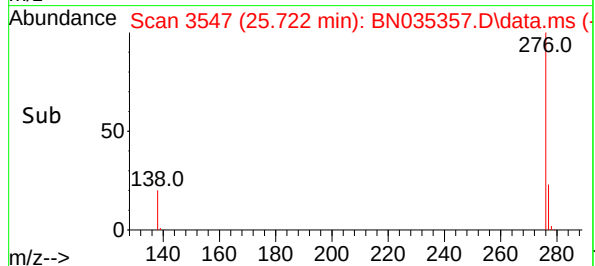
138 21.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035357.D
 Acq On : 27 Nov 2024 20:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00
2	1,4-Dioxane	0.382	0.444	-16.2	89	0.00
3	n-Nitrosodimethylamine	0.319	0.321	-0.6	74	0.00
4 S	2-Fluorophenol	1.001	0.831	17.0	61	0.00
5 S	Phenol-d6	1.204	0.933	22.5	59	0.00
6	bis(2-Chloroethyl)ether	1.012	1.088	-7.5	82	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	75	0.00
8 S	Nitrobenzene-d5	0.244	0.240	1.6	76	0.00
9	Naphthalene	1.055	1.118	-6.0	80	0.00
10	Hexachlorobutadiene	0.243	0.257	-5.8	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.626	0.657	-5.0	79	0.00
12	2-Methylnaphthalene	0.755	0.809	-7.2	82	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.284	0.214	24.6	63	0.00
15 S	2-Fluorobiphenyl	1.512	1.614	-6.7	81	0.00
16	Acenaphthylene	1.680	1.827	-8.8	87	0.00
17	Acenaphthene	1.115	1.188	-6.5	83	0.00
18	Fluorene	1.596	1.676	-5.0	82	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	78	0.00
21	4-Bromophenyl-phenylether	0.234	0.237	-1.3	81	0.00
22	Hexachlorobenzene	0.275	0.293	-6.5	83	0.00
23	Atrazine	0.167	0.167	0.0	84	0.00
24	Pentachlorophenol	0.120	0.090	25.0	73	0.00
25	Phenanthrene	1.099	1.158	-5.4	84	0.00
26	Anthracene	0.994	1.068	-7.4	88	0.00
27 SURR	Fluoranthene-d10	1.134	1.145	-1.0	82	0.00
28	Fluoranthene	1.481	1.489	-0.5	81	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30	Pyrene	1.477	1.515	-2.6	82	0.00
31 S	Terphenyl-d14	0.789	0.828	-4.9	83	0.00
32	Benzo(a)anthracene	1.399	1.443	-3.1	85	0.00
33	Chrysene	1.443	1.574	-9.1	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.530	4.2	82	0.00
35 I	Perylene-d12	1.000	1.000	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.731	-10.7	87	0.00
37	Benzo(b)fluoranthene	1.463	1.558	-6.5	91	0.00
38	Benzo(k)fluoranthene	1.440	1.519	-5.5	83	0.00
39 C	Benzo(a)pyrene	1.205	1.331	-10.5	89	0.00
40	Dibenzo(a,h)anthracene	1.234	1.336	-8.3	86	0.00
41	Benzo(g,h,i)perylene	1.289	1.304	-1.2	80	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	75	0.00
2	1,4-Dioxane	0.400	0.465	-16.3	89	0.00
3	n-Nitrosodimethylamine	0.400	0.404	-1.0	74	0.00
4 S	2-Fluorophenol	0.400	0.332	17.0	61	0.00
5 S	Phenol-d6	0.400	0.310	22.5	59	0.00
6	bis(2-Chloroethyl)ether	0.400	0.430	-7.5	82	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	75	0.00
8 S	Nitrobenzene-d5	0.400	0.393	1.8	76	0.00
9	Naphthalene	0.400	0.424	-6.0	80	0.00
10	Hexachlorobutadiene	0.400	0.423	-5.7	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	79	0.00
12	2-Methylnaphthalene	0.400	0.428	-7.0	82	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.400	0.302	24.5	63	0.00
15 S	2-Fluorobiphenyl	0.400	0.427	-6.7	81	0.00
16	Acenaphthylene	0.400	0.435	-8.7	87	0.00
17	Acenaphthene	0.400	0.426	-6.5	83	0.00
18	Fluorene	0.400	0.420	-5.0	82	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	77	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	78	0.00
21	4-Bromophenyl-phenylether	0.400	0.405	-1.3	81	0.00
22	Hexachlorobenzene	0.400	0.426	-6.5	83	0.00
23	Atrazine	0.400	0.401	-0.3	84	0.00
24	Pentachlorophenol	0.400	0.301	24.8	73	0.00
25	Phenanthrene	0.400	0.421	-5.2	84	0.00
26	Anthracene	0.400	0.430	-7.5	88	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	82	0.00
28	Fluoranthene	0.400	0.402	-0.5	81	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30	Pyrene	0.400	0.410	-2.5	82	0.00
31 S	Terphenyl-d14	0.400	0.420	-5.0	83	0.00
32	Benzo(a)anthracene	0.400	0.413	-3.2	85	0.00
33	Chrysene	0.400	0.436	-9.0	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.384	4.0	82	0.00
35 I	Perylene-d12	0.400	0.400	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.443	-10.7	87	0.00
37	Benzo(b)fluoranthene	0.400	0.426	-6.5	91	0.00
38	Benzo(k)fluoranthene	0.400	0.422	-5.5	83	0.00
39 C	Benzo(a)pyrene	0.400	0.442	-10.5	89	0.00
40	Dibenzo(a,h)anthracene	0.400	0.433	-8.2	86	0.00
41	Benzo(g,h,i)perylene	0.400	0.404	-1.0	80	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 19:33

Lab File ID: BN035749.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	0.622		-0.6	20.0
Fluoranthene-d10	1.134	1.074		-5.3	20.0
2-Fluorophenol	1.001	1.021		2.0	20.0
Phenol-d6	1.204	1.178		-2.2	20.0
Nitrobenzene-d5	0.244	0.294		20.5	20.0
2-Fluorobiphenyl	1.512	1.560		3.2	20.0
2,4,6-Tribromophenol	0.284	0.235		-17.3	20.0
Terphenyl-d14	0.789	0.891		12.9	20.0
1,4-Dioxane	0.382	0.445		16.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035749.D
 Acq On : 20 Dec 2024 19:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

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

Quant Time: Dec 21 01:43:03 2024

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	2885	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7460	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4592	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9182	0.400	ng	# 0.00
29) Chrysene-d12	20.956	240	7719	0.400	ng	0.00
35) Perylene-d12	23.038	264	7943	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2946	0.408	ng	0.00
5) Phenol-d6	6.484	99	3398	0.391	ng	0.00
8) Nitrobenzene-d5	8.408	82	2193m	0.481	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4637	0.397	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	1079	0.331	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	7163	0.413	ng	0.00
27) Fluoranthene-d10	18.761	212	9858	0.379	ng	0.00
31) Terphenyl-d14	19.393	244	6880	0.452	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.982	88	1284	0.466	ng	96
3) n-Nitrosodimethylamine	3.271	42	1037	0.451	ng	# 96
6) bis(2-Chloroethyl)ether	6.723	93	2618m	0.359	ng	
9) Naphthalene	10.063	128	8115	0.412	ng	99
10) Hexachlorobutadiene	10.351	225	2104	0.464	ng	# 98
12) 2-Methylnaphthalene	11.697	142	5318	0.378	ng	99
16) Acenaphthylene	13.636	152	7458	0.387	ng	100
17) Acenaphthene	13.989	154	5179	0.405	ng	99
18) Fluorene	14.994	166	6721	0.367	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	99	0.110	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2111	0.393	ng	# 80
22) Hexachlorobenzene	16.003	284	3074	0.487	ng	96
23) Atrazine	16.202	200	1584	0.414	ng	97
24) Pentachlorophenol	16.376	266	1014	0.370	ng	87
25) Phenanthrene	16.748	178	9861	0.391	ng	100
26) Anthracene	16.835	178	8624	0.378	ng	99
28) Fluoranthene	18.789	202	12002	0.353	ng	100
30) Pyrene	19.156	202	12468	0.438	ng	99
32) Benzo(a)anthracene	20.938	228	9472	0.351	ng	99
33) Chrysene	20.992	228	11952	0.429	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4632	0.434	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.067	276	12531	0.404	ng	96
37) Benzo(b)fluoranthene	22.427	252	13708	0.472	ng	95
38) Benzo(k)fluoranthene	22.468	252	11604m	0.406	ng	
39) Benzo(a)pyrene	22.950	252	9304	0.389	ng	# 91
40) Dibenzo(a,h)anthracene	25.082	278	9530	0.389	ng	95
41) Benzo(g,h,i)perylene	25.675	276	11213	0.438	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035749.D
 Acq On : 20 Dec 2024 19:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :

BNA_N

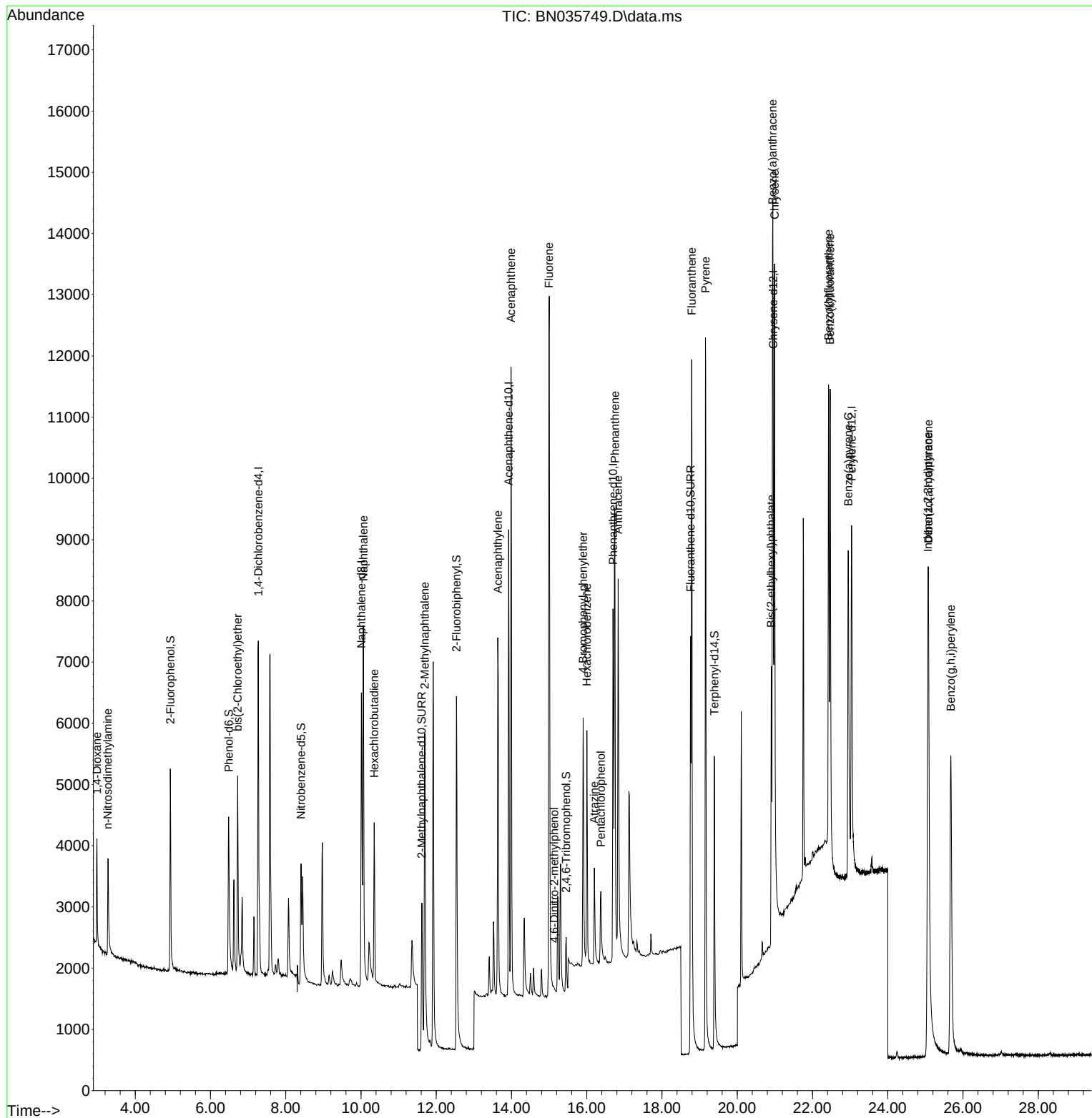
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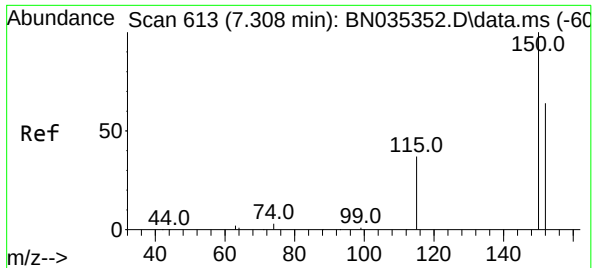
SSTDCCC0.4

Manual Integrations**APPROVED**

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

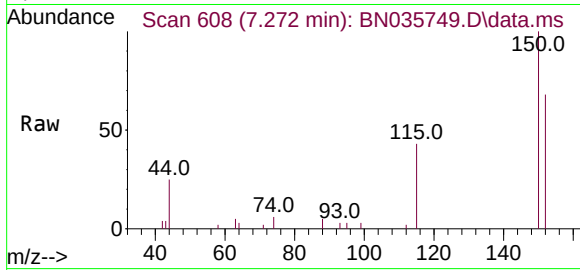
Quant Time: Dec 21 01:43:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 60
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

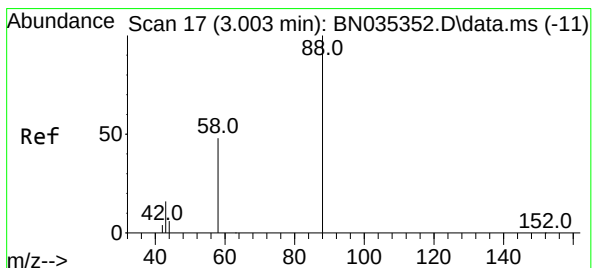
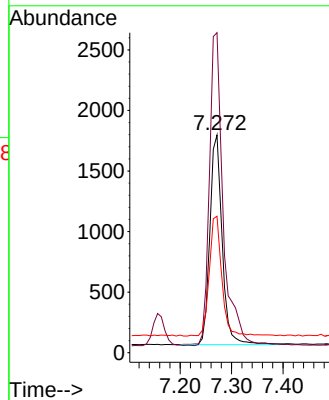
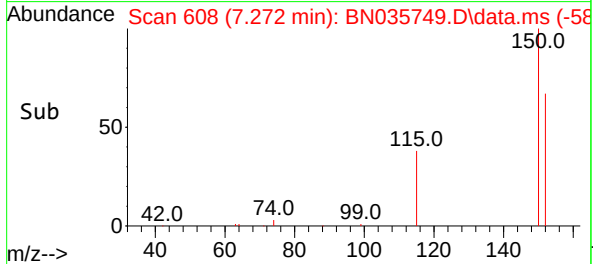
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 288
Ion Ratio Lower Upper
152 100
150 147.0 124.0 186.0
115 62.7 49.6 74.4

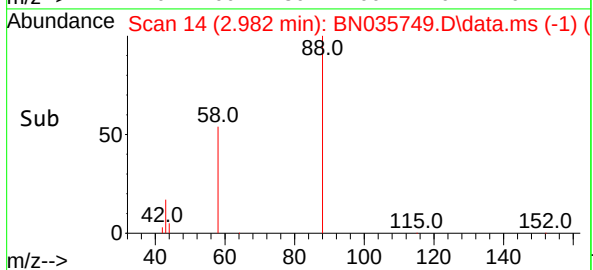
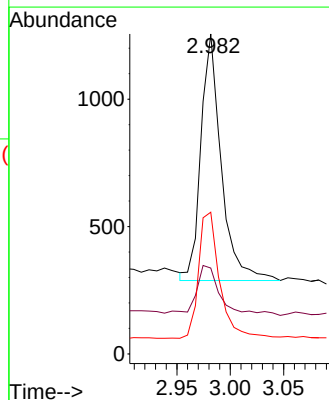
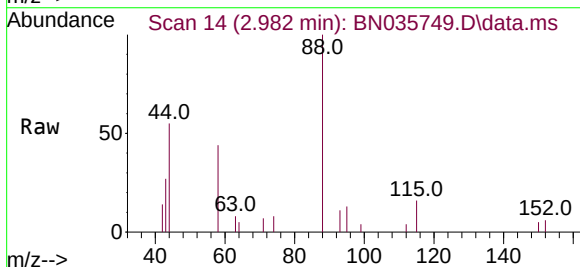
Manual Integrations
APPROVED

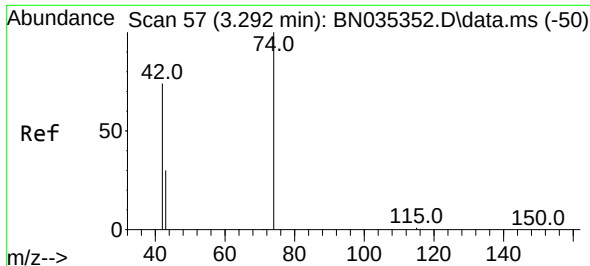
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#2
1,4-Dioxane
Concen: 0.466 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

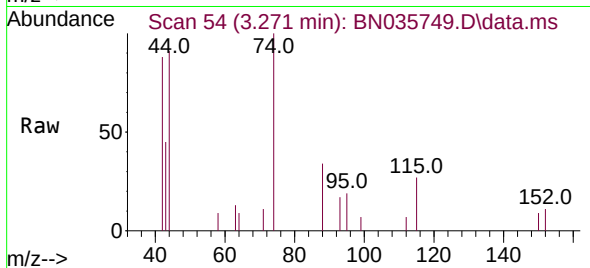
Tgt Ion: 88 Resp: 1284
Ion Ratio Lower Upper
88 100
43 24.5 17.2 25.8
58 53.3 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.451 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

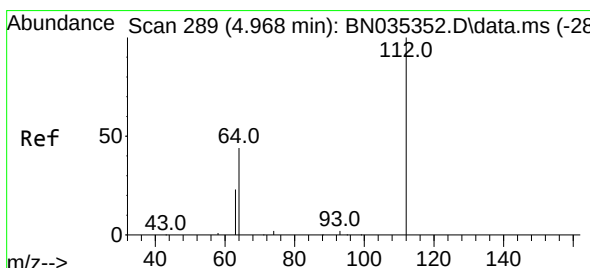
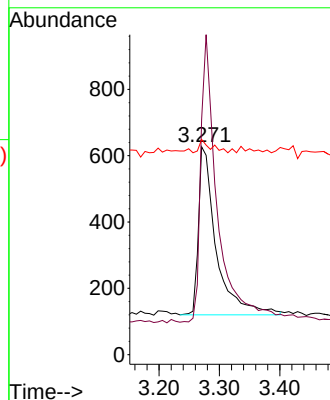
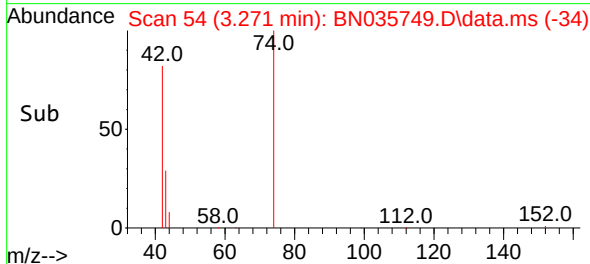
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 103
Ion Ratio Lower Upper
42 100
74 160.8 124.9 187.3
44 7.0 2.2 3.4

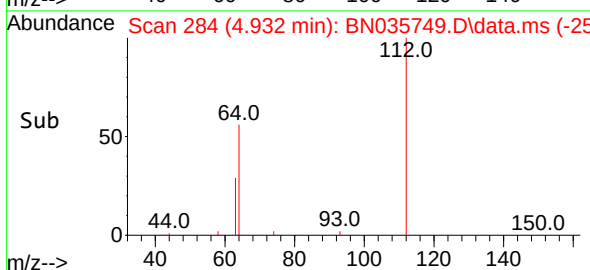
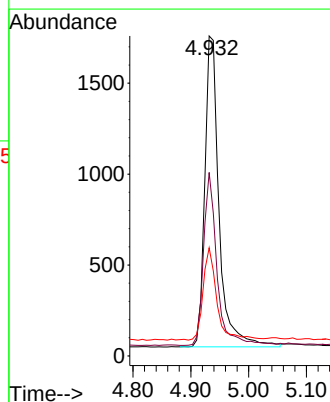
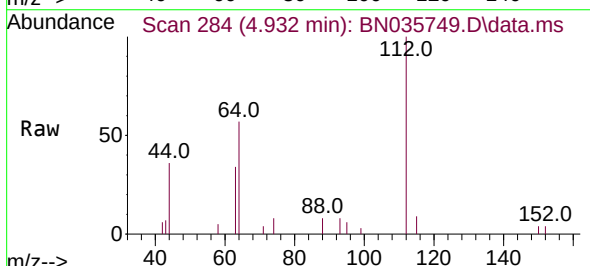
Manual Integrations
APPROVED

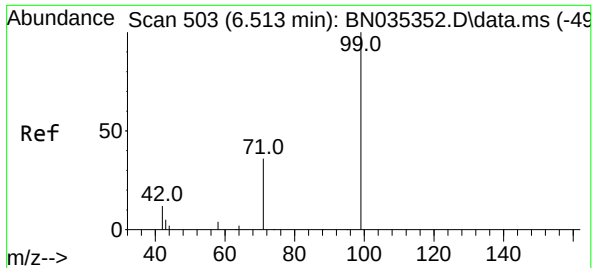
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#4
2-Fluorophenol
Concen: 0.408 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:112 Resp: 2946
Ion Ratio Lower Upper
112 100
64 52.4 39.8 59.8
63 28.5 21.0 31.6





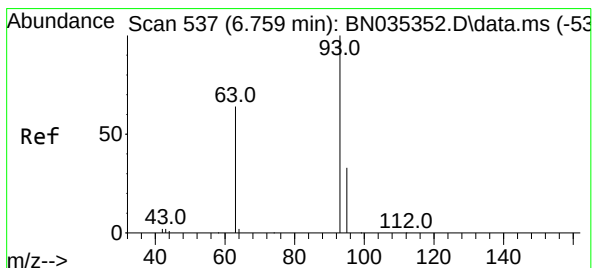
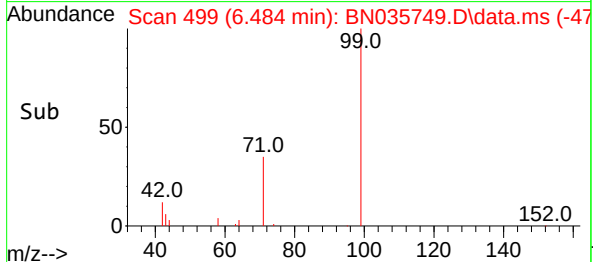
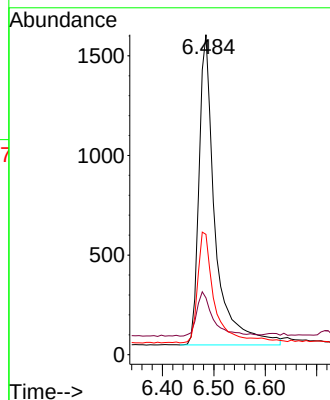
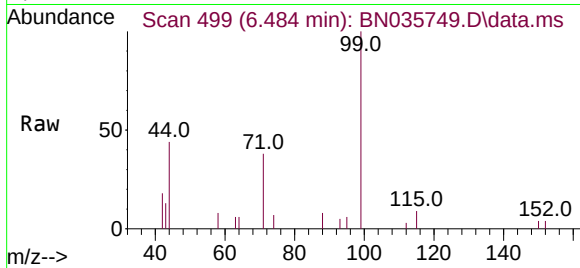
#5
Phenol-d6
Concen: 0.391 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	37.5	29.3	43.9

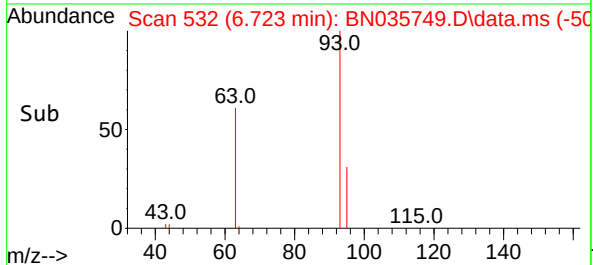
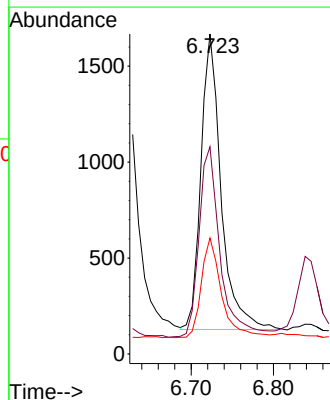
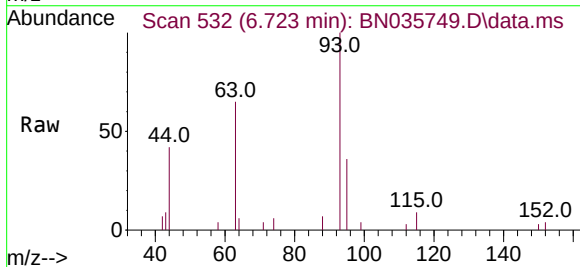
Manual Integrations
APPROVED

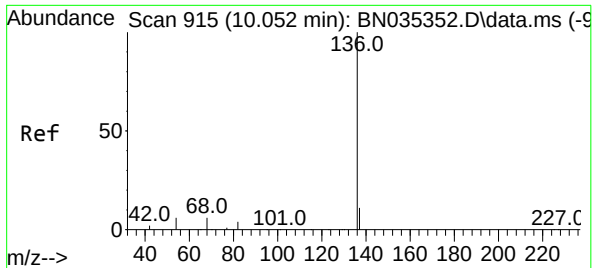
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng m
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion	Ratio	Lower	Upper
93	100		
63	67.8	50.4	75.6
95	33.9	25.7	38.5





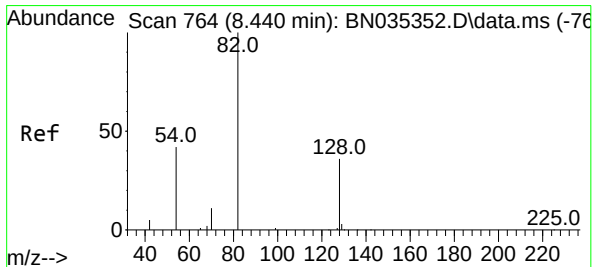
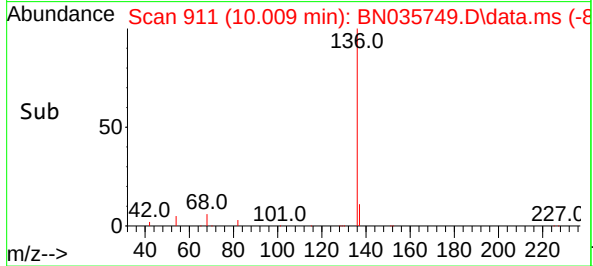
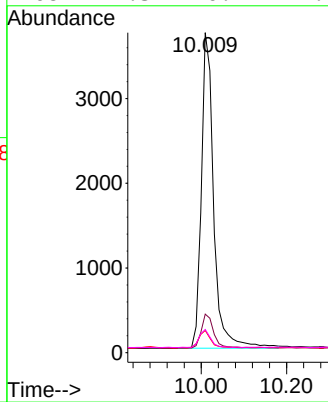
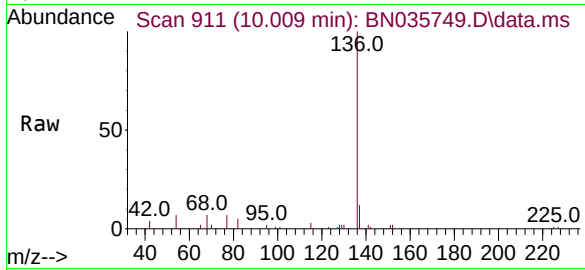
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136	Resp:	7460
Ion Ratio	Lower	Upper
136	100	
137	12.0	10.2 15.2
54	6.9	6.1 9.1
68	7.3	6.4 9.6

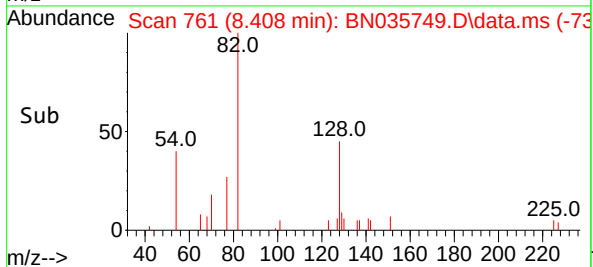
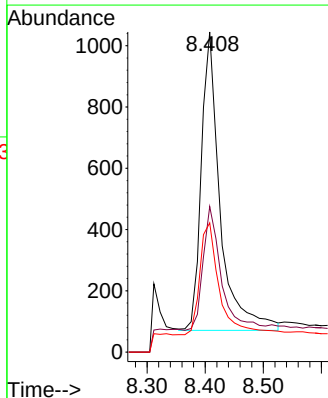
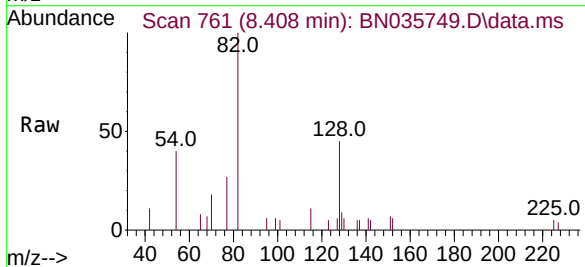
Manual Integrations
APPROVED

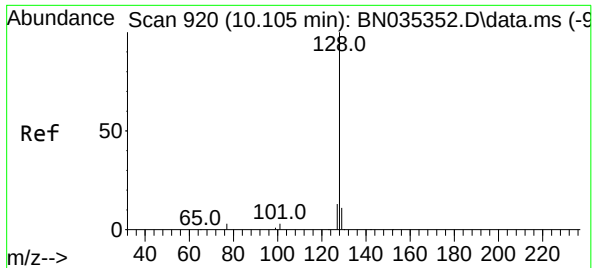
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#8
Nitrobenzene-d5
Concen: 0.481 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 82	Resp:	2193
Ion Ratio	Lower	Upper
82	100	
128	45.5	33.4 50.0
54	40.4	36.7 55.1





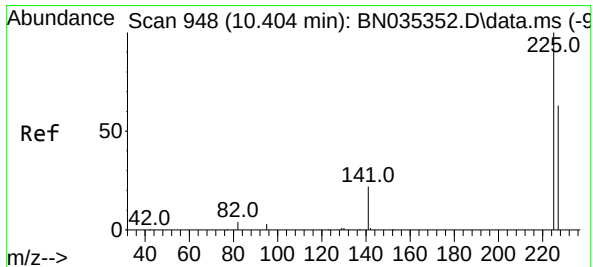
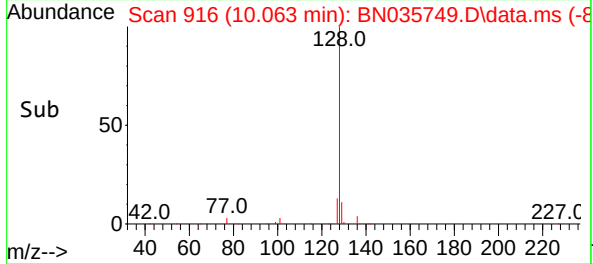
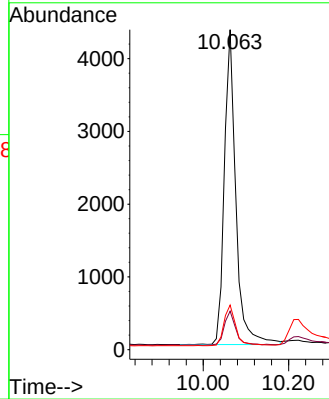
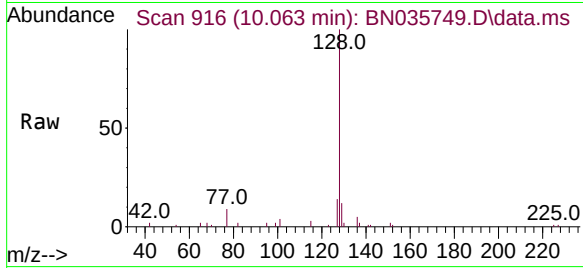
#9
Naphthalene
Concen: 0.412 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 811
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 13.9 11.4 17.2

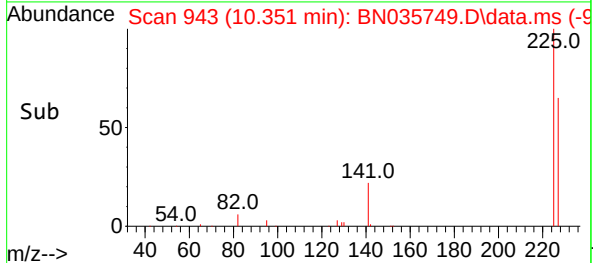
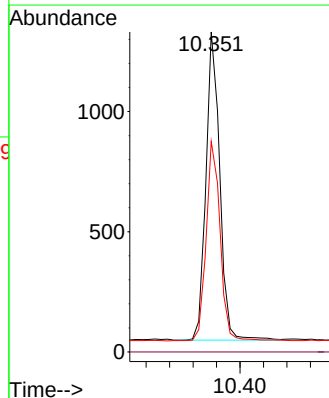
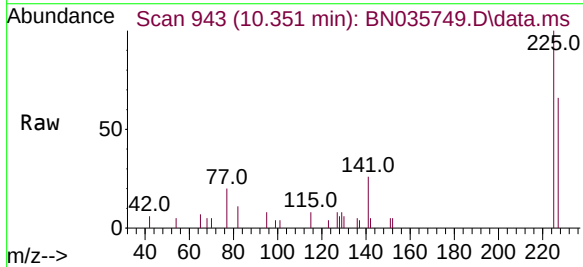
Manual Integrations
APPROVED

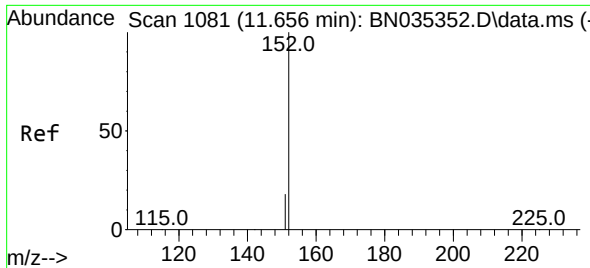
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#10
Hexachlorobutadiene
Concen: 0.464 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

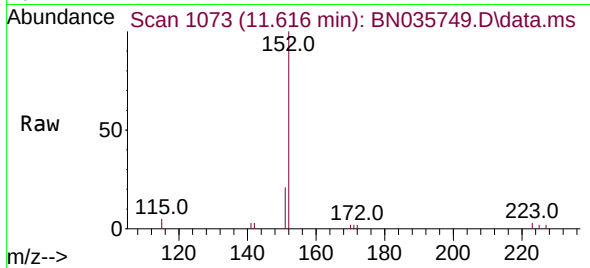
Tgt Ion:225 Resp: 2104
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.6 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

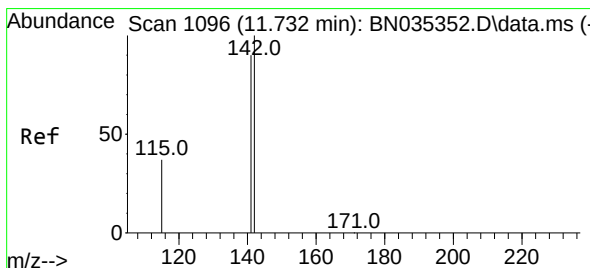
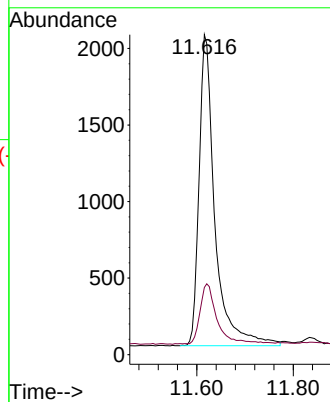
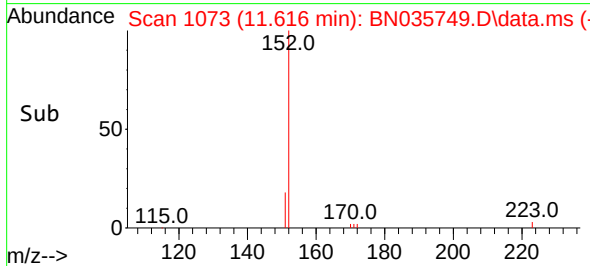
Instrument :
BNA_N
ClientSampleId :
SSTDC0.4



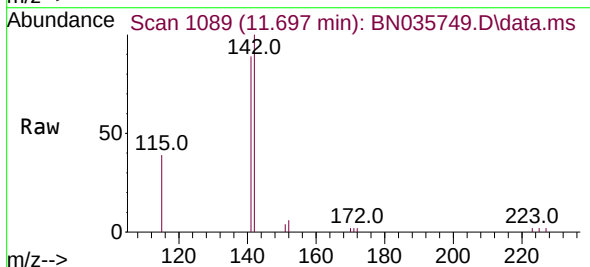
Tgt Ion:152 Resp: 463
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0

Manual Integrations
APPROVED

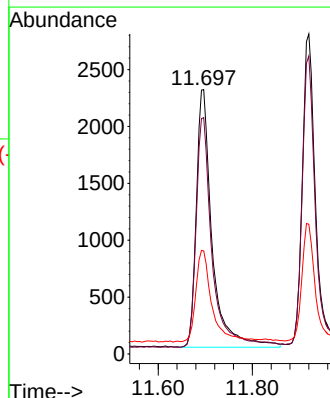
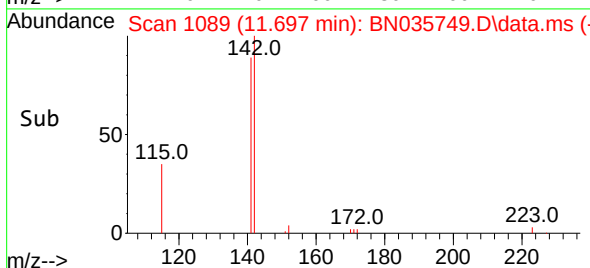
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

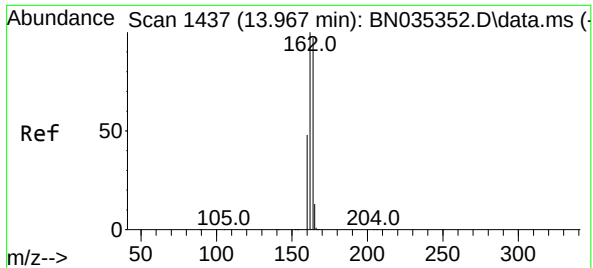


#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33



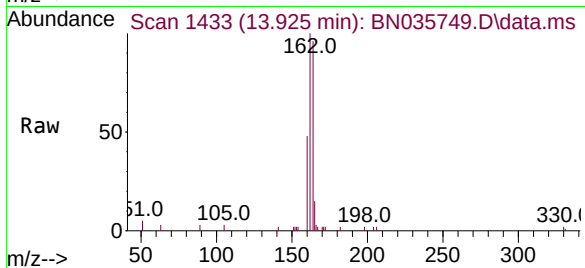
Tgt Ion:142 Resp: 5318
Ion Ratio Lower Upper
142 100
141 89.4 72.2 108.4
115 39.0 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

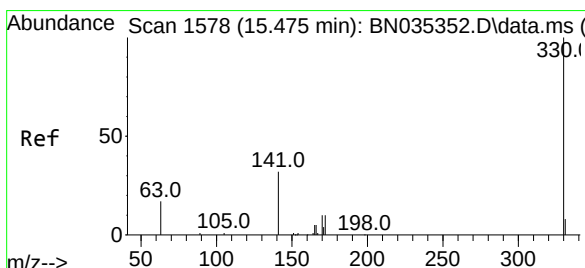
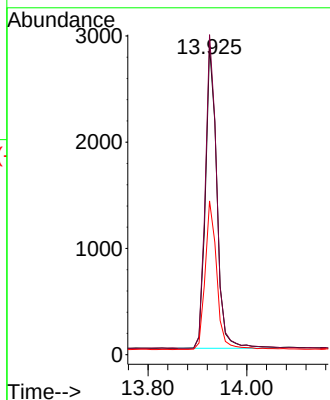
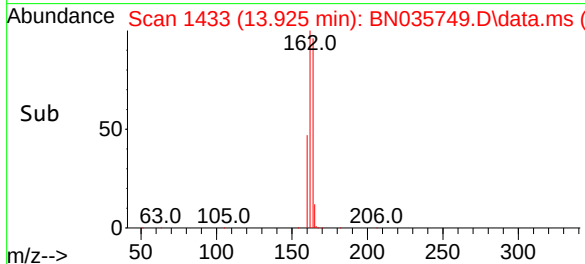
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:164 Resp: 4592
Ion Ratio Lower Upper
164 100
162 103.6 82.2 123.2
160 49.8 40.1 60.1

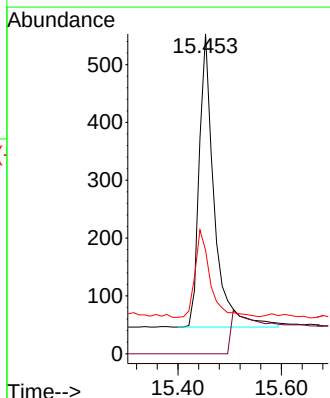
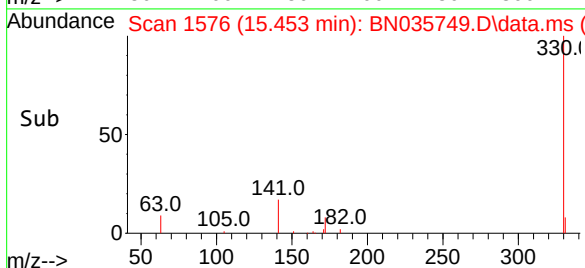
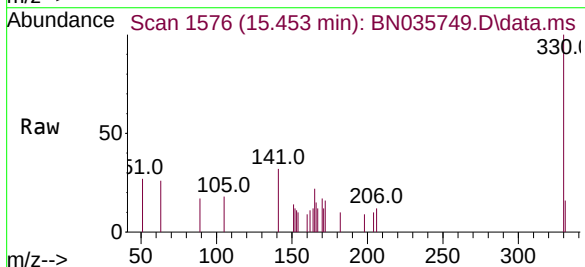
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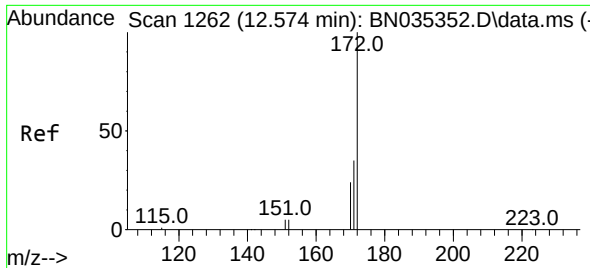
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#14
2,4,6-Tribromophenol
Concen: 0.331 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

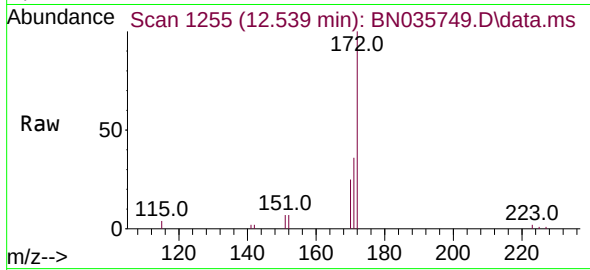
Tgt Ion:330 Resp: 1079
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.6 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.539 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

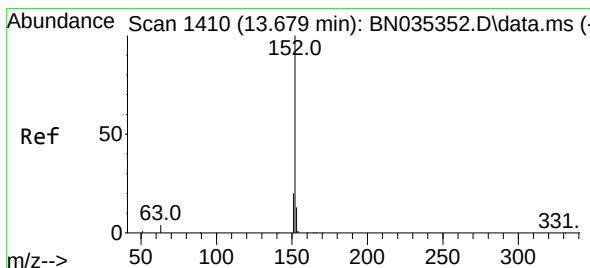
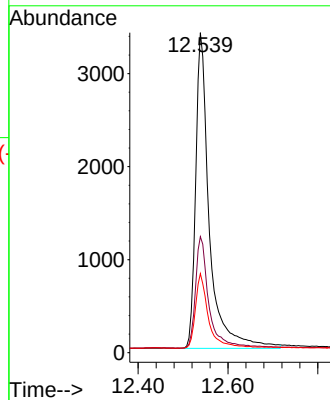
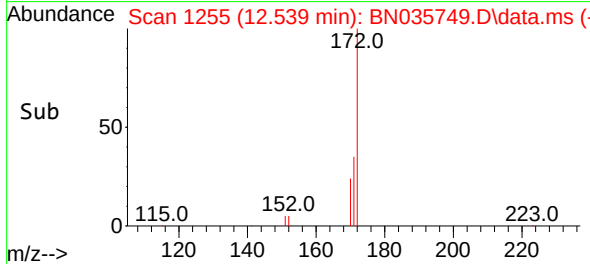
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 716
Ion Ratio Lower Upper
172 100
171 36.3 29.0 43.4
170 24.7 19.8 29.8

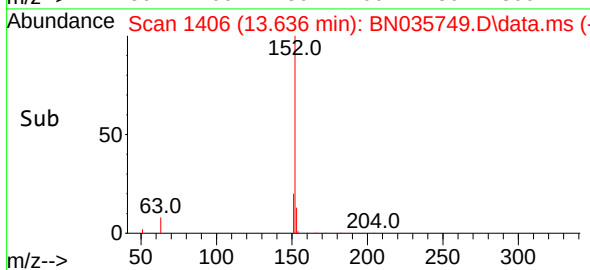
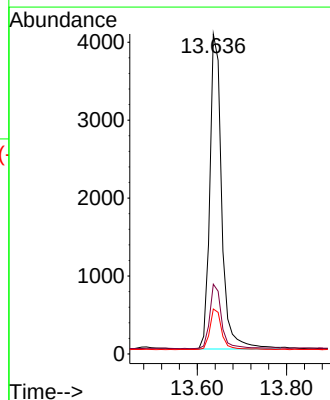
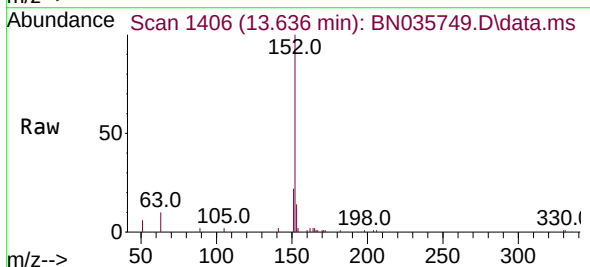
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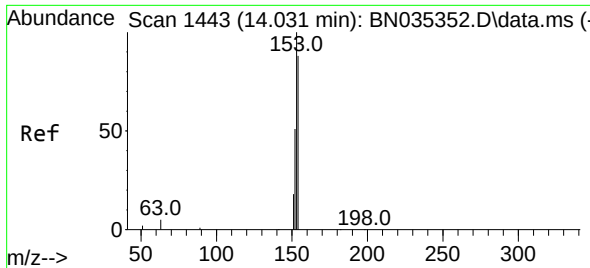
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:152 Resp: 7458
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2
153 13.2 10.4 15.6





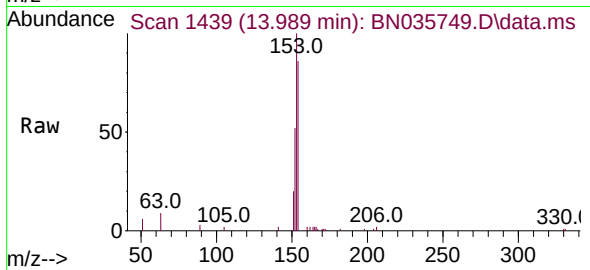
#17
Acenaphthene
Concen: 0.405 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

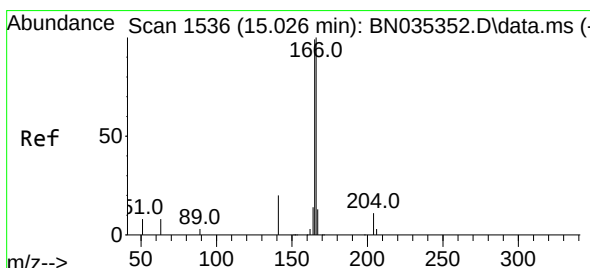
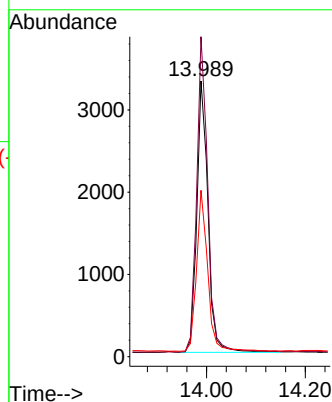
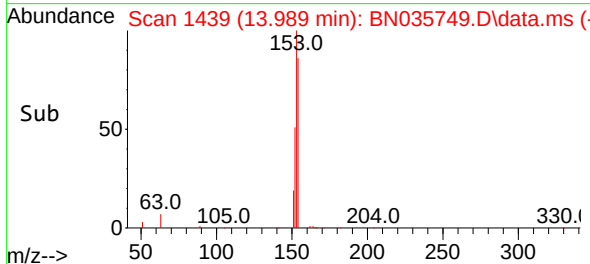


Tgt Ion:154 Resp: 5179
Ion Ratio Lower Upper
154 100
153 115.5 92.6 139.0
152 59.2 49.0 73.6

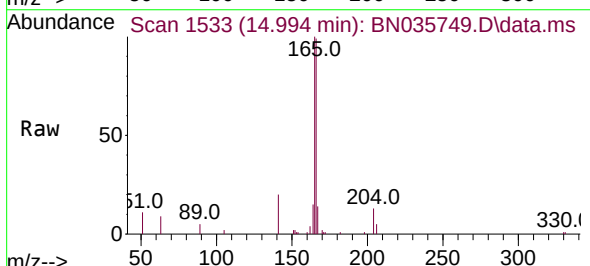
Manual Integrations

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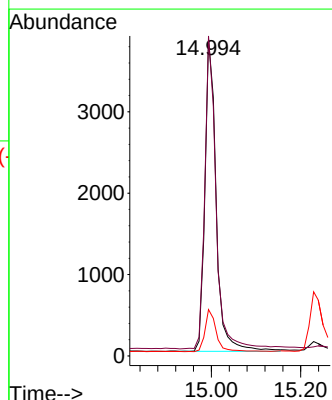
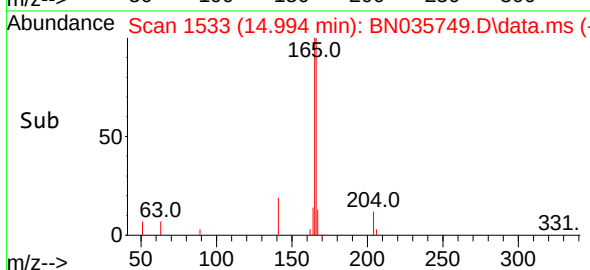
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

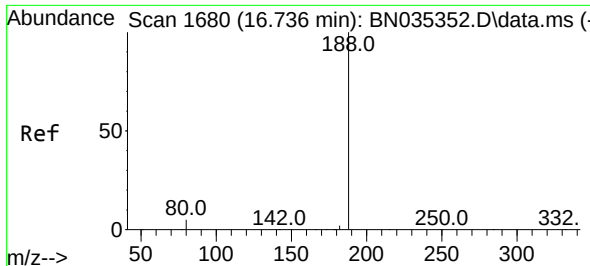


#18
Fluorene
Concen: 0.367 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33



Tgt Ion:166 Resp: 6721
Ion Ratio Lower Upper
166 100
165 99.7 79.7 119.5
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

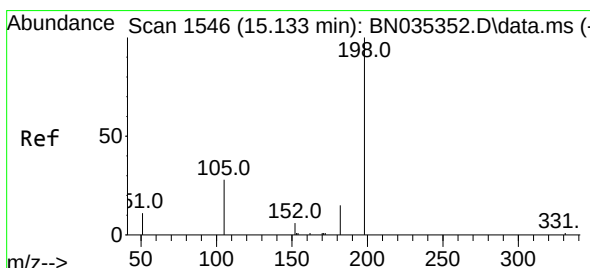
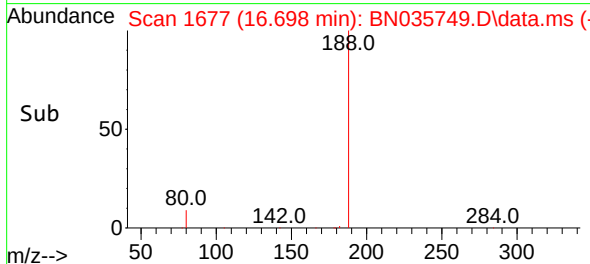
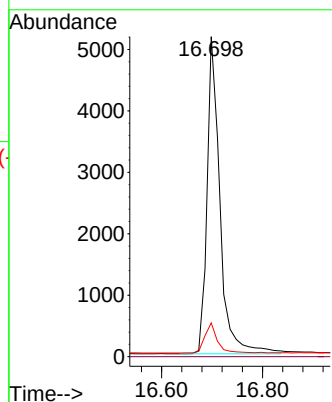
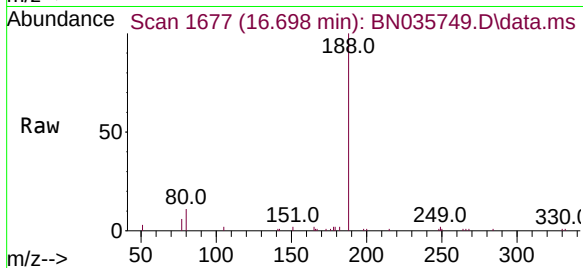
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:188	Resp:	918
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.6	4.6

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Supervised By :mohammad ahmed 12/24/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.110 ng

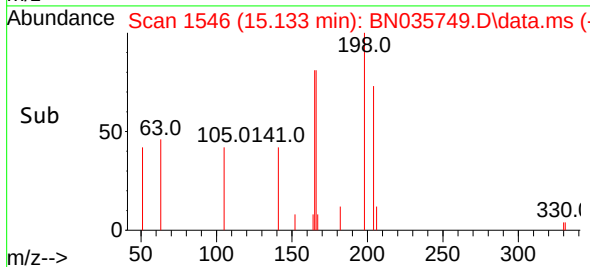
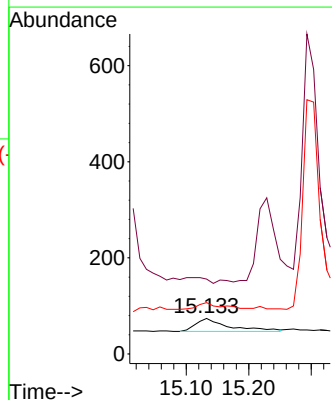
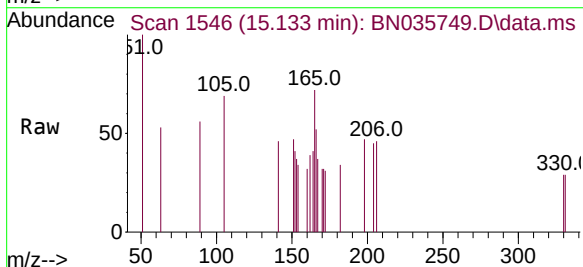
RT: 15.133 min Scan# 1546

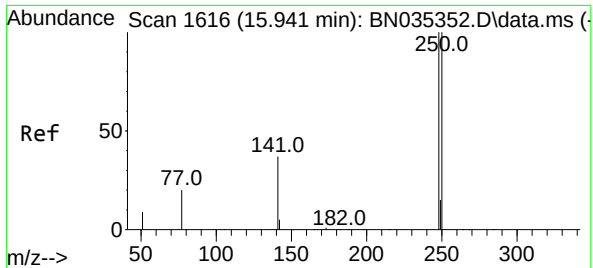
Delta R.T. 0.011 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Tgt Ion:198	Resp:	99
Ion Ratio	Lower	Upper
198	100	
51	210.8	46.5
105	144.6	45.3





#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :

BNA_N

ClientSampleId :

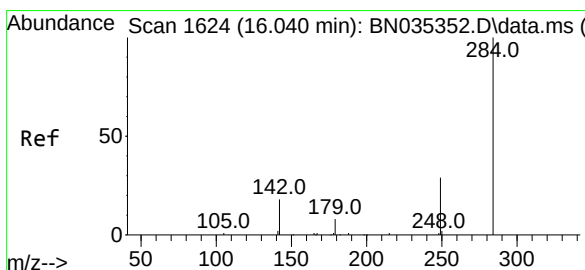
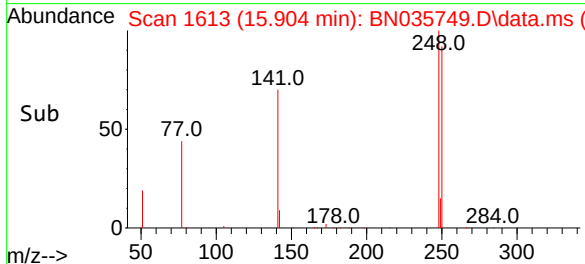
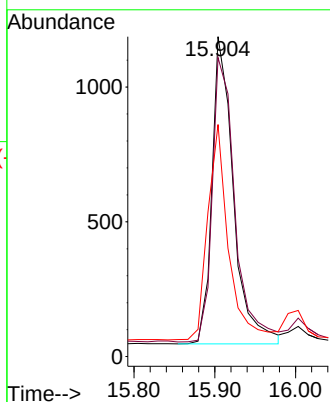
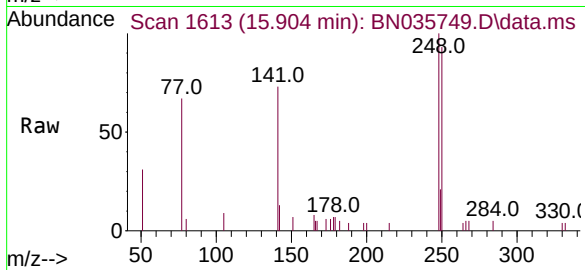
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.4	80.6	120.8
141	72.5	31.5	47.3

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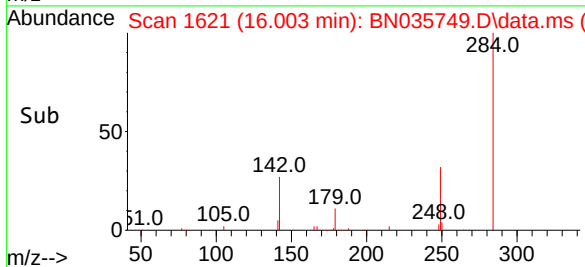
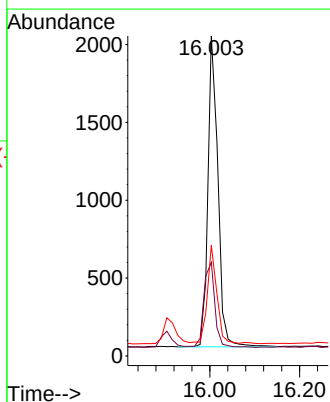
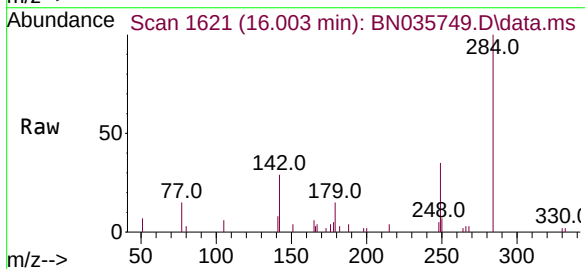
APPROVED

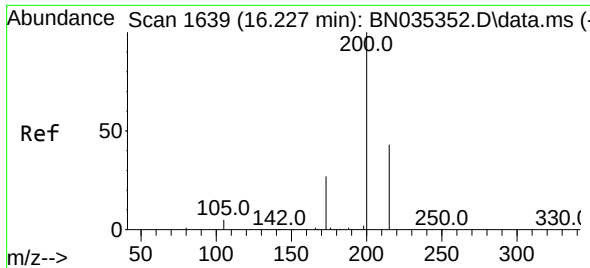
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#22
Hexachlorobenzene
Concen: 0.487 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

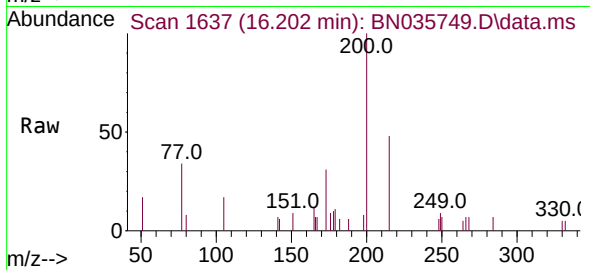
Tgt Ion	Ratio	Lower	Upper
284	100		
142	30.3	26.7	40.1
249	29.7	24.6	36.8





#23
Atrazine
Concen: 0.414 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

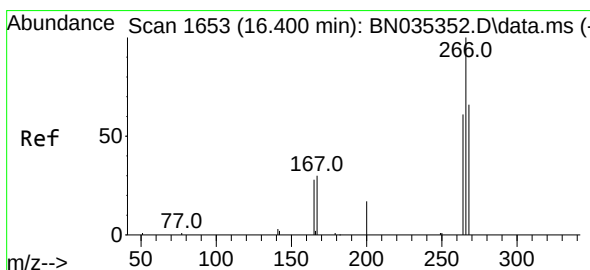
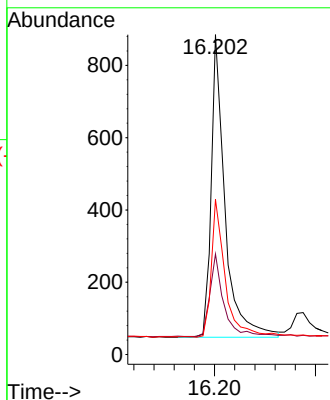
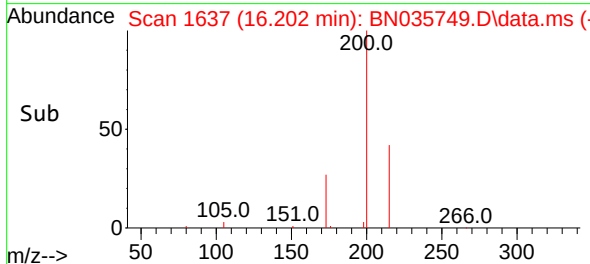
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 1584
Ion Ratio Lower Upper
200 100
173 31.4 24.1 36.1
215 48.5 36.9 55.3

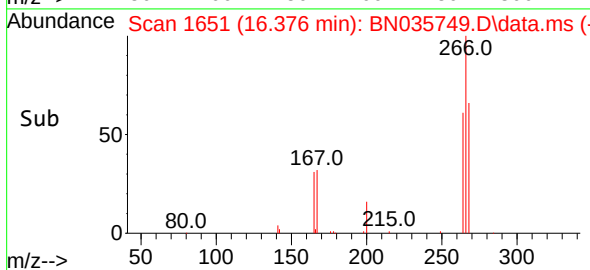
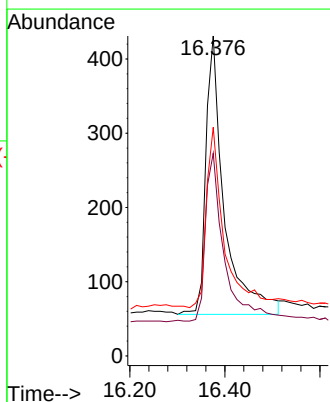
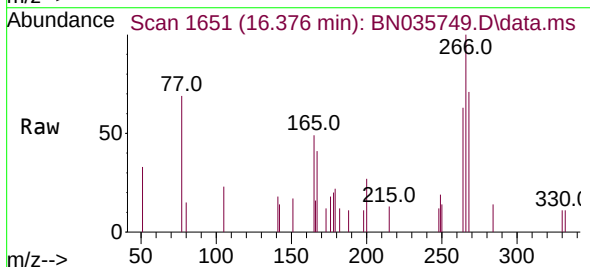
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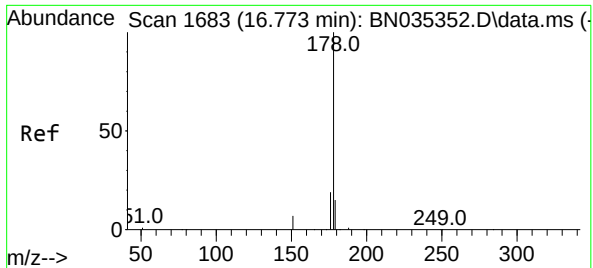
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#24
Pentachlorophenol
Concen: 0.370 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:266 Resp: 1014
Ion Ratio Lower Upper
266 100
264 61.4 42.3 63.5
268 64.0 43.3 64.9





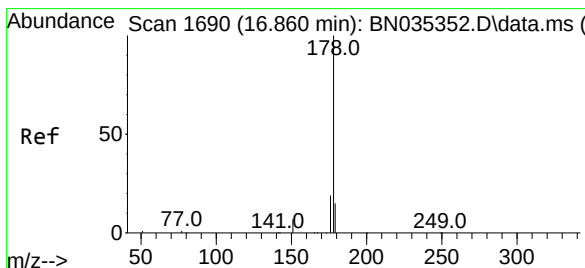
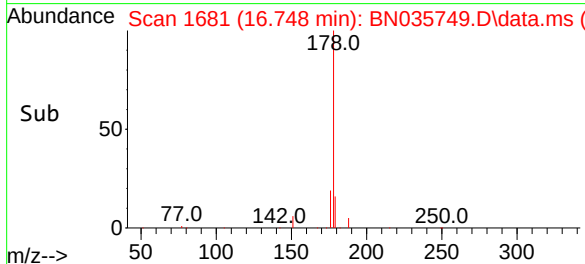
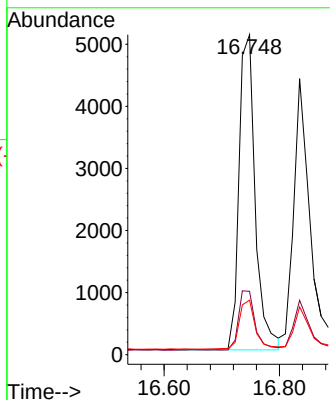
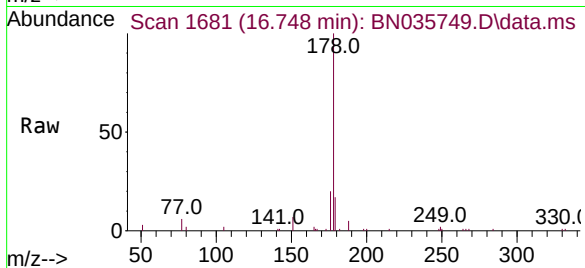
#25
Phenanthrene
Concen: 0.391 ng
RT: 16.748 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 986
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5

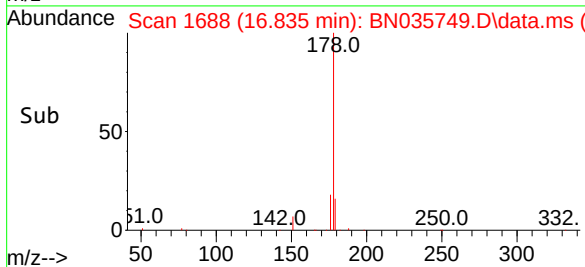
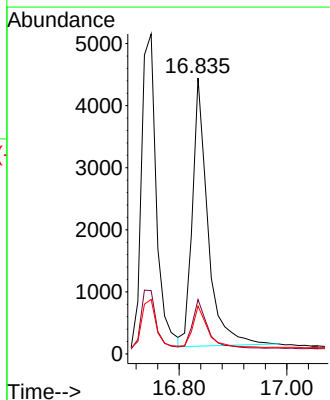
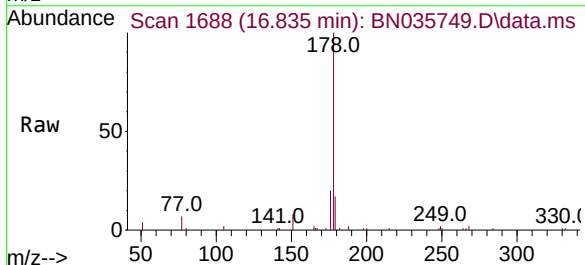
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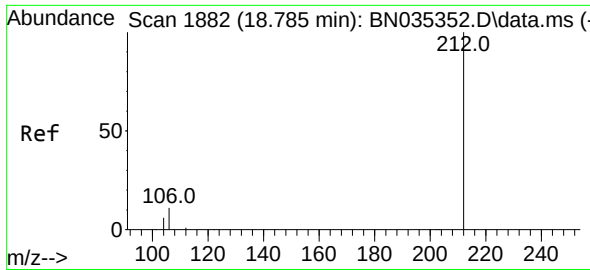
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#26
Anthracene
Concen: 0.378 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:178 Resp: 8624
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.6
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.379 ng

RT: 18.761 min Scan# 1877

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA_N

ClientSampleId :

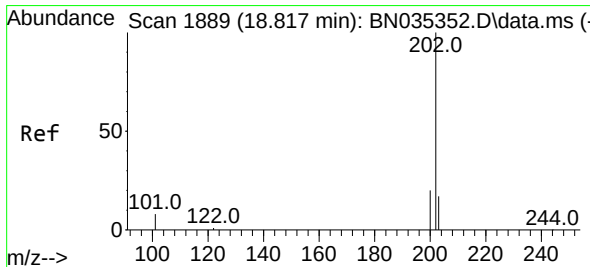
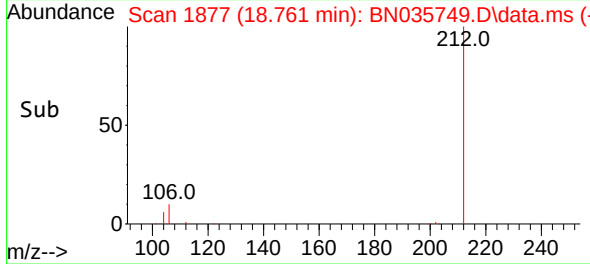
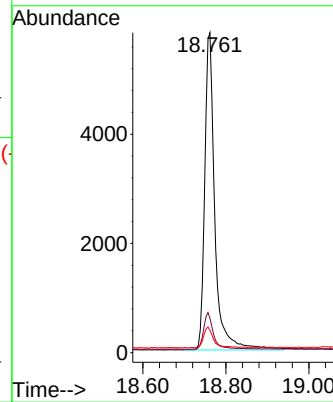
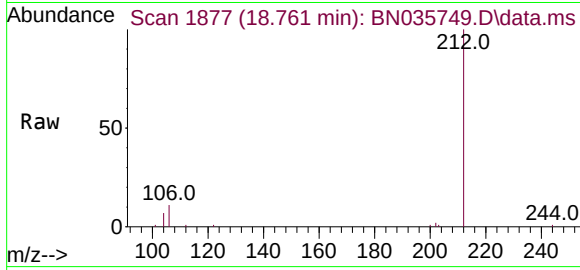
SSTDCCC0.4

Tgt Ion:212	Resp:	985
Ion Ratio	Lower	Upper
212	100	
106	11.0	9.2 13.8
104	6.4	5.3 7.9

Manual Integrations

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



#28

Fluoranthene

Concen: 0.353 ng

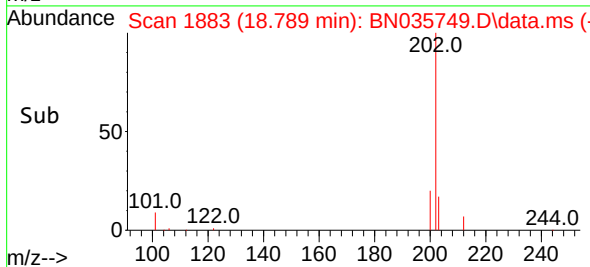
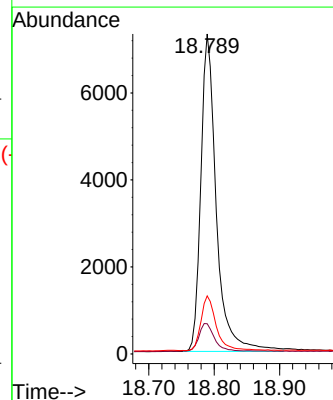
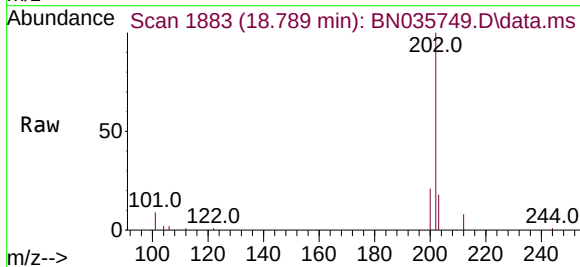
RT: 18.789 min Scan# 1883

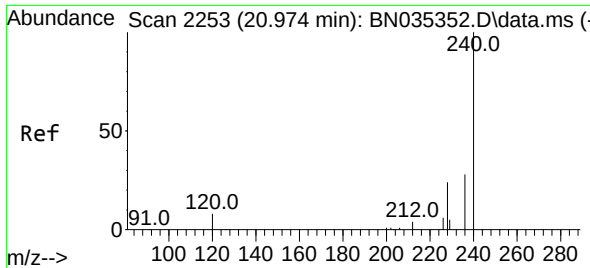
Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Tgt Ion:202	Resp:	12002
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: 20.956 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

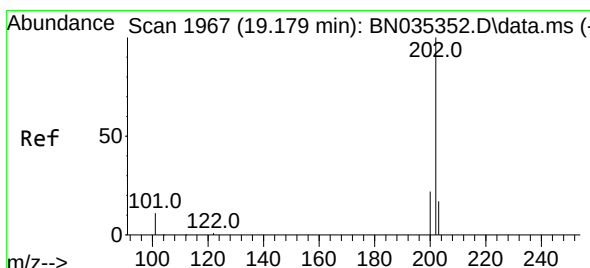
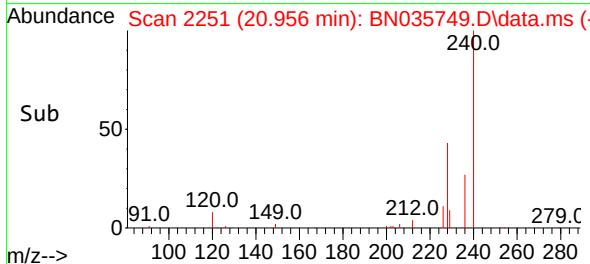
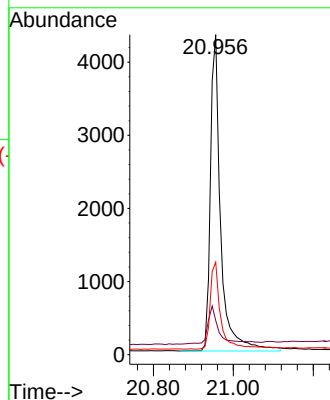
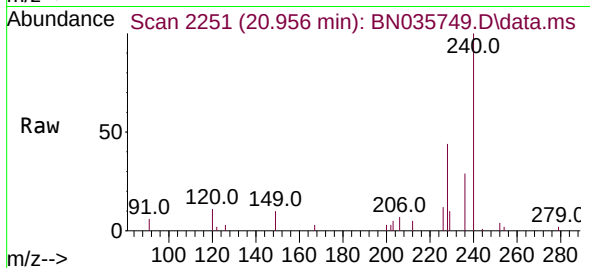
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:240	Resp:	7719
Ion Ratio	Lower	Upper
240	100	
120	10.7	7.9 11.9
236	28.9	22.9 34.3

Manual Integrations
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Supervised By :mohammad ahmed 12/24/2024

#30

Pyrene

Concen: 0.438 ng

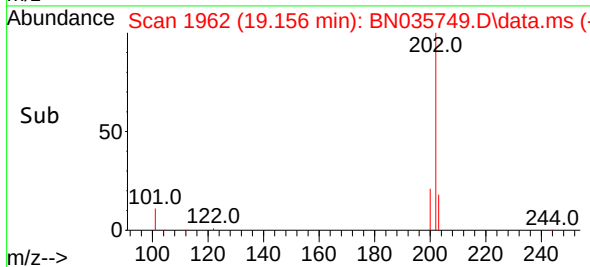
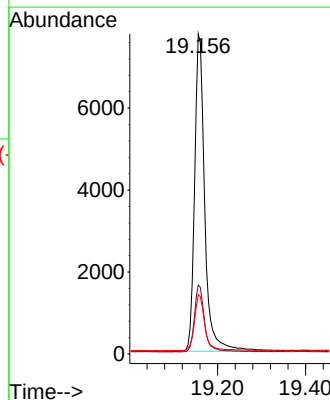
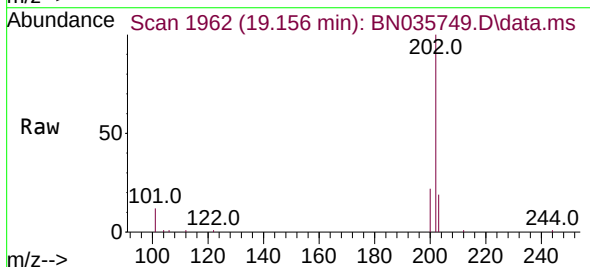
RT: 19.156 min Scan# 1962

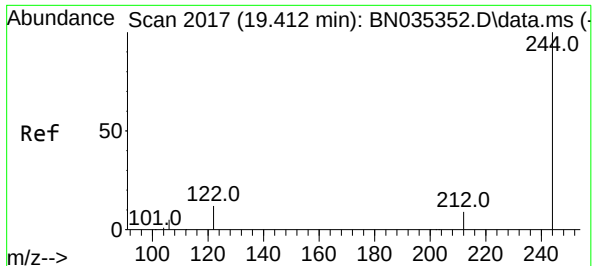
Delta R.T. -0.005 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Tgt Ion:202	Resp:	12468
Ion Ratio	Lower	Upper
202	100	
200	20.7	17.0 25.4
203	17.8	14.3 21.5





#31
Terphenyl-d14
Concen: 0.452 ng
RT: 19.393 min Scan# 2017
Delta R.T. 0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :

BNA_N

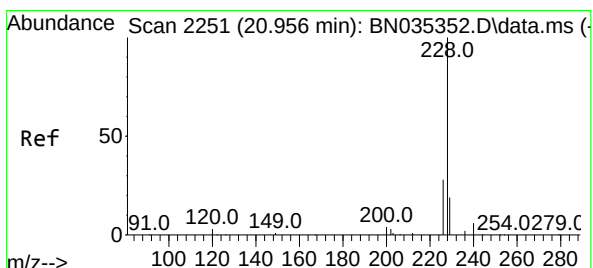
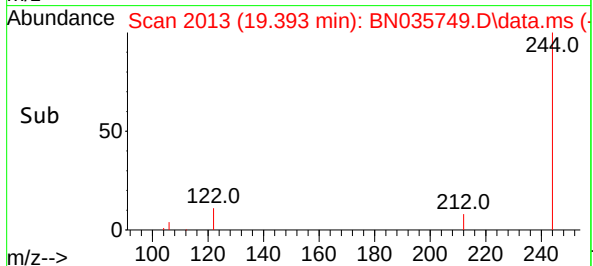
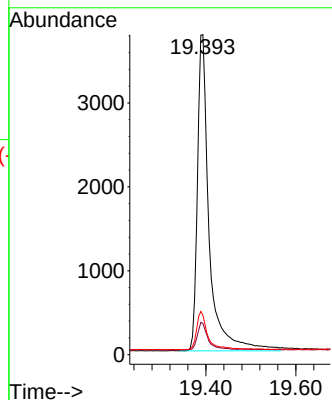
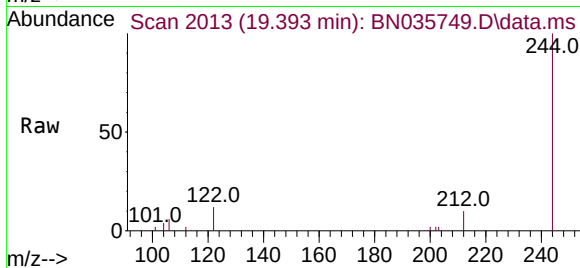
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	12.4	10.3	15.5

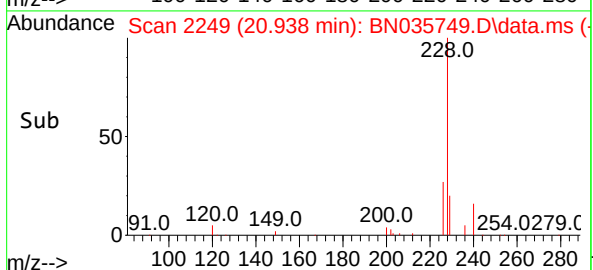
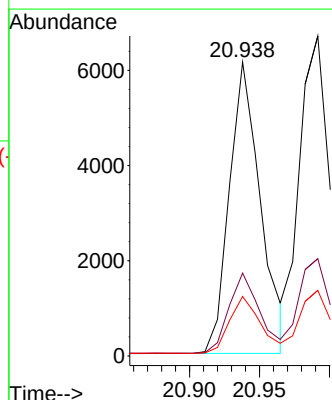
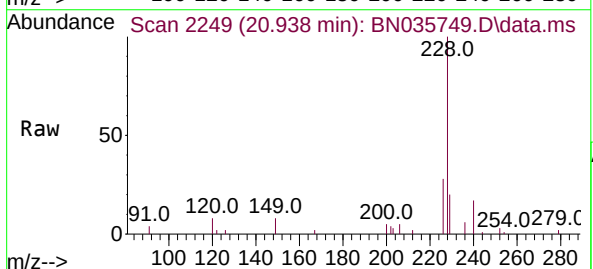
Manual Integrations
APPROVED

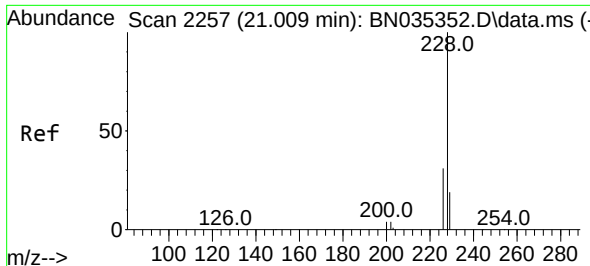
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

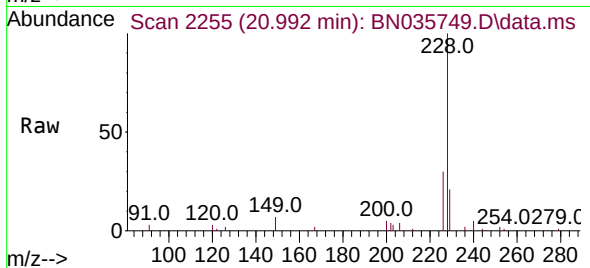
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.3	15.8	23.8





#33
Chrysene
Concen: 0.429 ng
RT: 20.992 min Scan# 21195
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

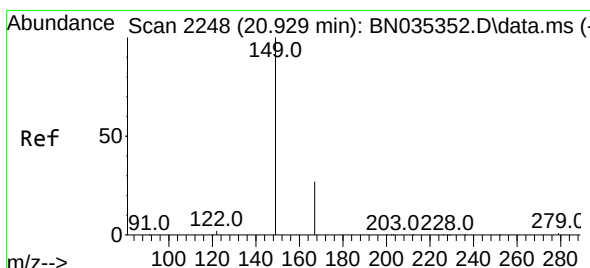
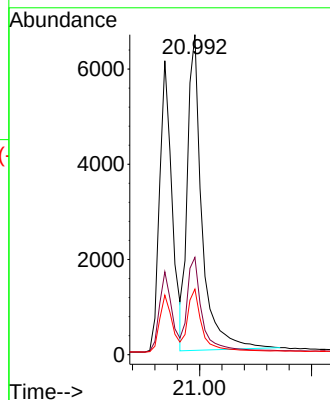
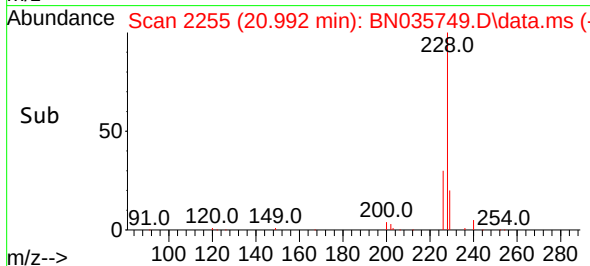
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:228 Resp: 11952
Ion Ratio Lower Upper
228 100
226 30.4 24.6 37.0
229 20.5 15.9 23.9

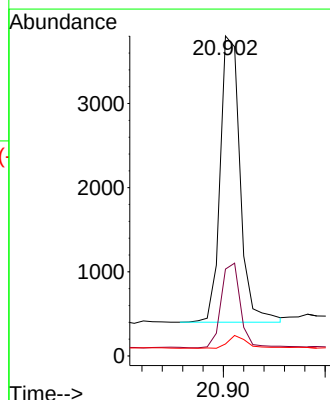
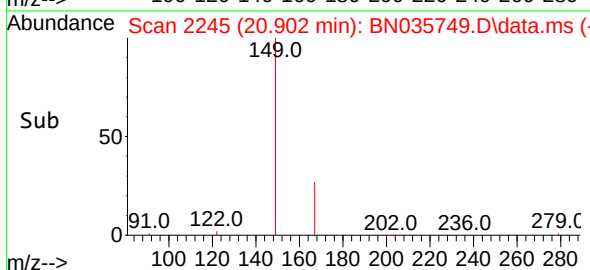
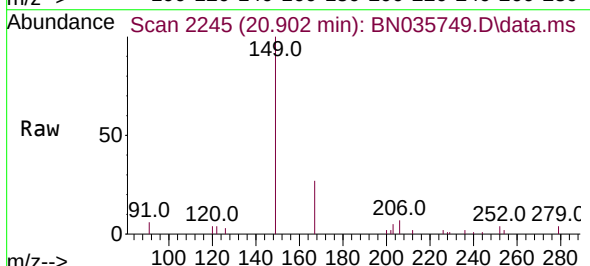
Manual Integrations
APPROVED

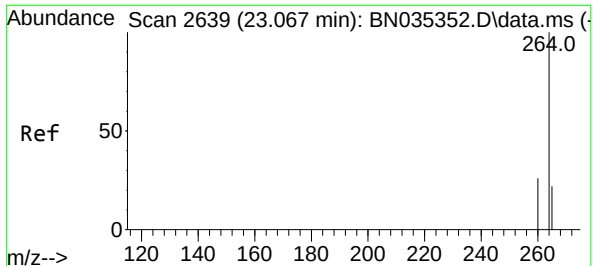
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.434 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:149 Resp: 4632
Ion Ratio Lower Upper
149 100
167 28.9 22.2 33.4
279 4.5 2.7 4.1#





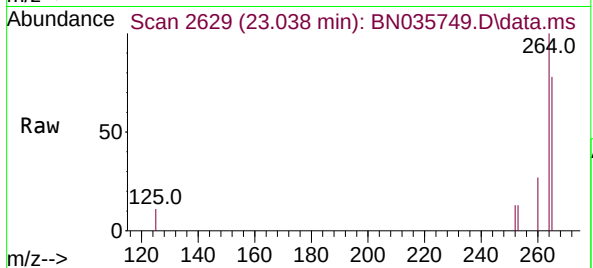
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

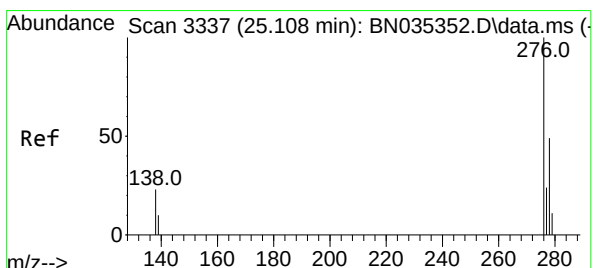
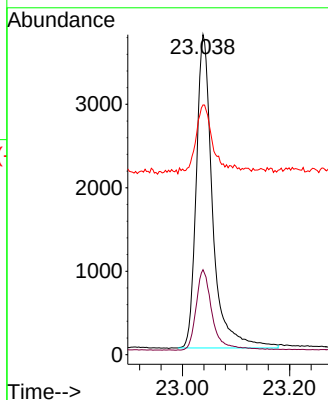
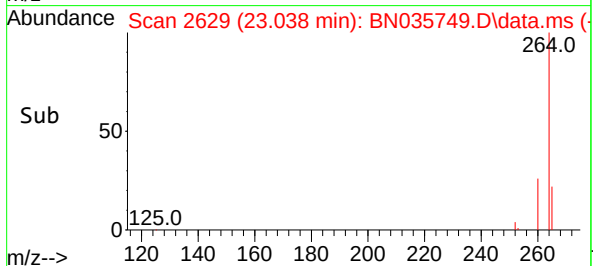


Tgt Ion:264 Resp: 794.3
Ion Ratio Lower Upper
264 100
260 26.5 21.4 32.2
265 78.1 40.2 60.4

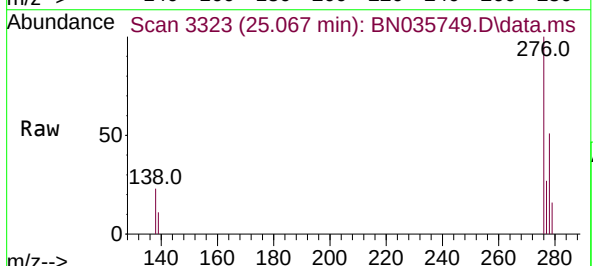
Manual Integrations

APPROVED

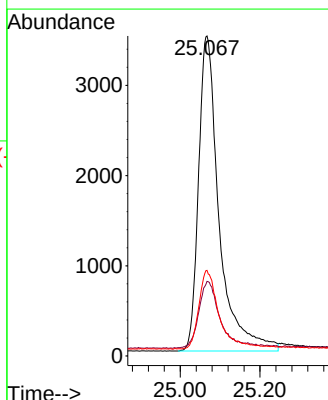
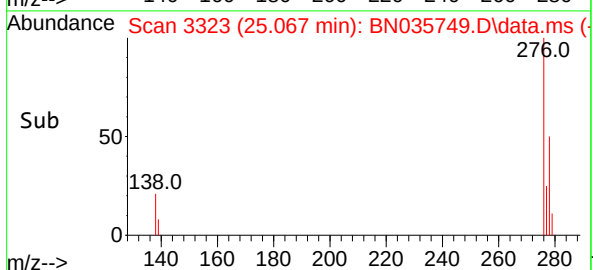
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

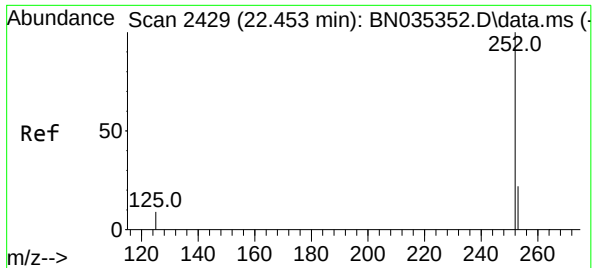


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33



Tgt Ion:276 Resp: 12531
Ion Ratio Lower Upper
276 100
138 21.0 19.4 29.0
277 24.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.472 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA_N

ClientSampleId :

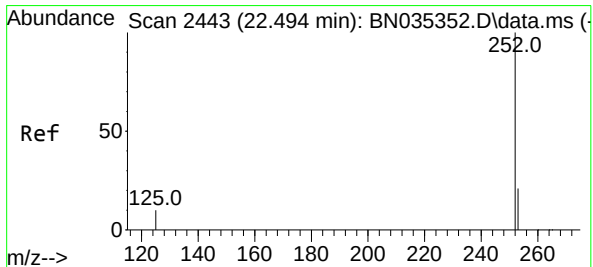
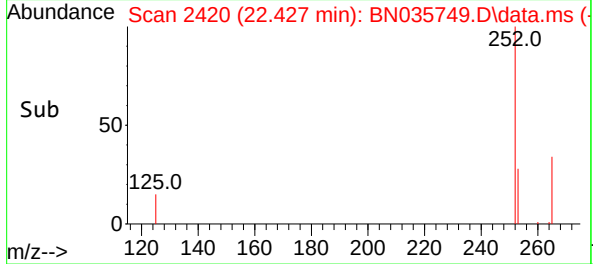
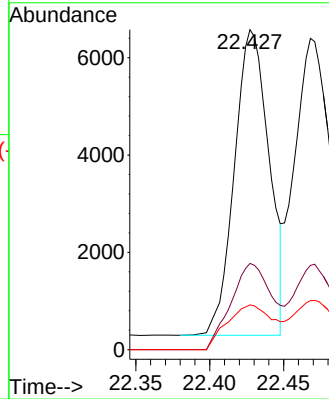
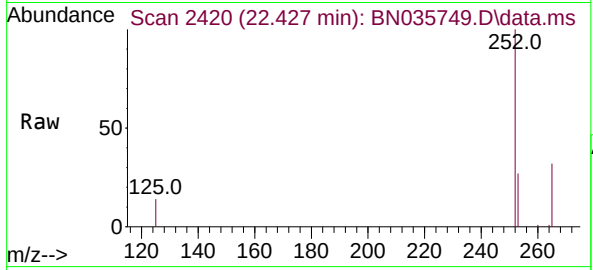
SSTDCCC0.4

Tgt Ion:252	Resp:	13708
Ion Ratio	Lower	Upper
252	100	
253	26.9	19.6 29.4
125	14.0	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: 0.406 ng m

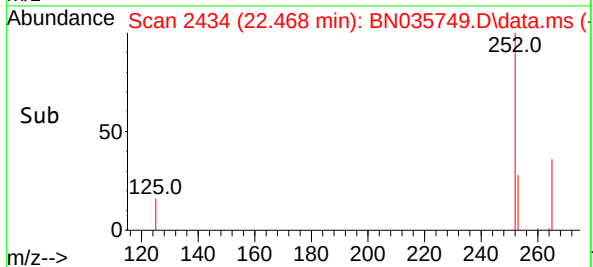
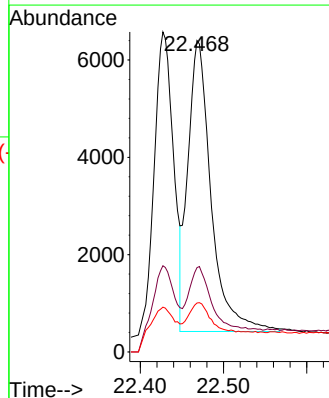
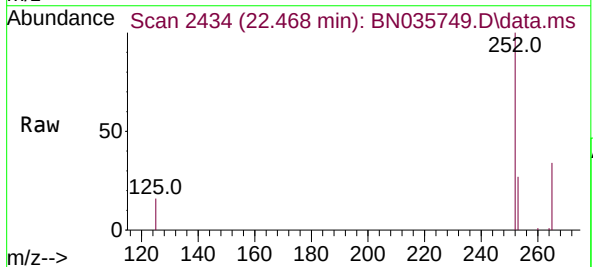
RT: 22.468 min Scan# 2434

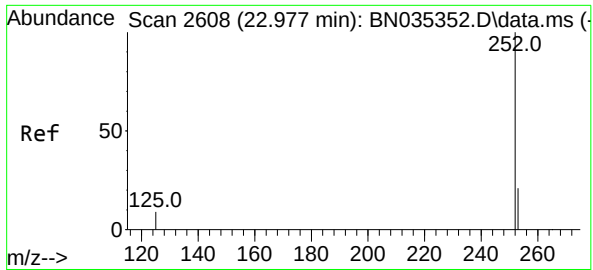
Delta R.T. -0.003 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Tgt Ion:252	Resp:	11604
Ion Ratio	Lower	Upper
252	100	
253	27.1	19.5 29.3
125	15.7	10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 22.950 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA_N

ClientSampleId :

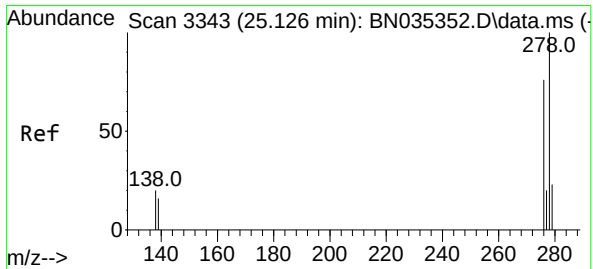
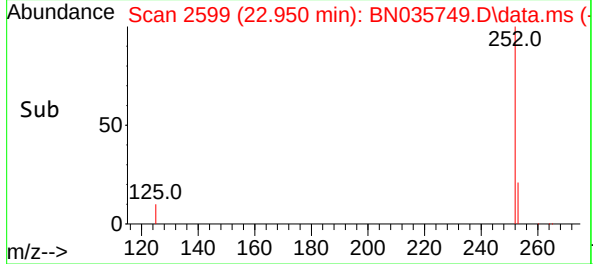
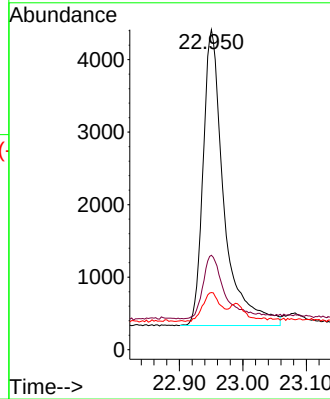
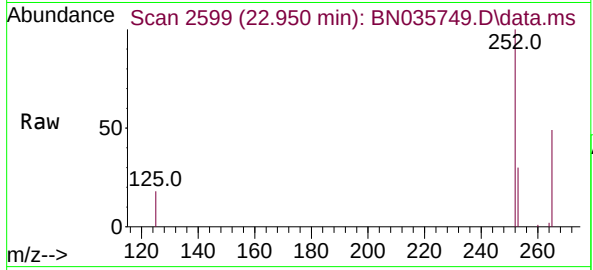
SSTDCCC0.4

Tgt Ion:	252	Resp:	9304
Ion Ratio	Lower	Upper	
252	100		
253	29.5	20.2	30.4
125	17.9	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: 0.389 ng

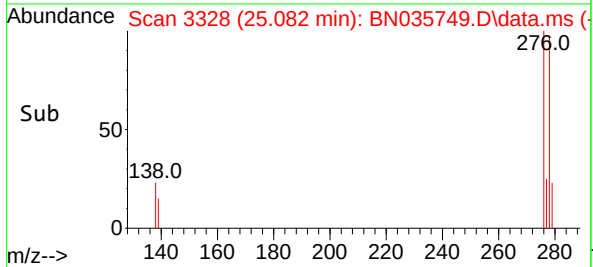
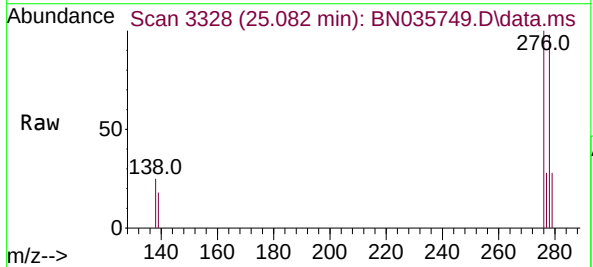
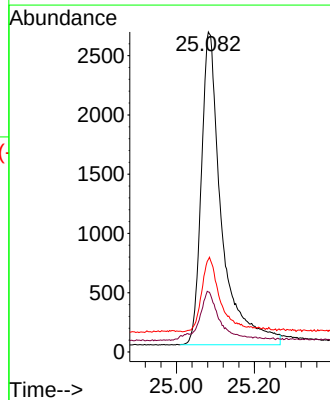
RT: 25.082 min Scan# 3328

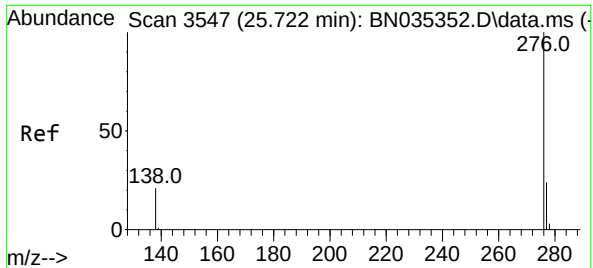
Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Tgt Ion:	278	Resp:	9530
Ion Ratio	Lower	Upper	
278	100		
139	18.7	14.2	21.4
279	28.9	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.438 ng

RT: 25.675 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035749.D

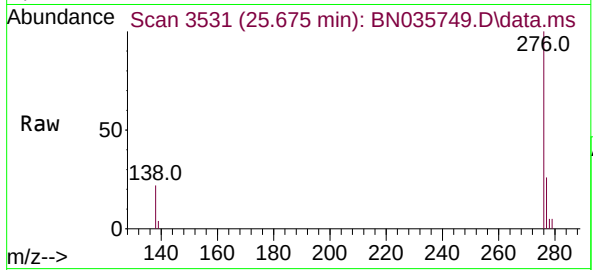
Acq: 20 Dec 2024 19:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion: 276 Resp: 1121

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

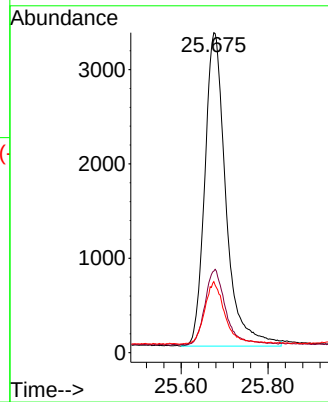
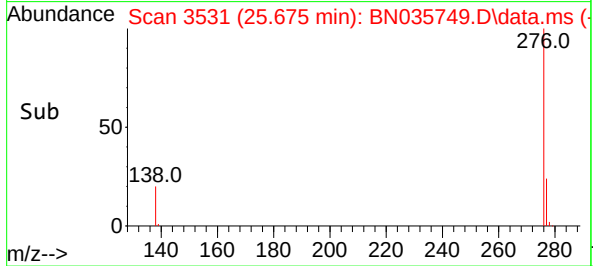
138 22.2 17.8 26.8

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 : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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	141	0.00
2	1,4-Dioxane	0.382	0.445	-16.5	167#	0.00
3	n-Nitrosodimethylamine	0.319	0.359	-12.5	155#	0.00
4 S	2-Fluorophenol	1.001	1.021	-2.0	141	0.00
5 S	Phenol-d6	1.204	1.178	2.2	139	0.00
6	bis(2-Chloroethyl)ether	1.012	0.907	10.4	129	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	143	-0.01
8 S	Nitrobenzene-d5	0.244	0.294	-20.5	179#	0.00
9	Naphthalene	1.055	1.088	-3.1	148	0.00
10	Hexachlorobutadiene	0.243	0.282	-16.0	163#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.622	0.6	143	0.00
12	2-Methylnaphthalene	0.755	0.713	5.6	138	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	121	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.235	17.3	111	0.00
15 S	2-Fluorobiphenyl	1.512	1.560	-3.2	125	0.00
16	Acenaphthylene	1.680	1.624	3.3	123	-0.01
17	Acenaphthene	1.115	1.128	-1.2	126	-0.01
18	Fluorene	1.596	1.464	8.3	115	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.039	0.011	71.8#	29#	0.01
21	4-Bromophenyl-phenylether	0.234	0.230	1.7	98	-0.01
22	Hexachlorobenzene	0.275	0.335	-21.8	119	-0.01
23	Atrazine	0.167	0.173	-3.6	108	0.00
24	Pentachlorophenol	0.120	0.110	8.3	112	0.00
25	Phenanthrene	1.099	1.074	2.3	97	0.00
26	Anthracene	0.994	0.939	5.5	97	0.00
27 SURR	Fluoranthene-d10	1.134	1.074	5.3	96	0.00
28	Fluoranthene	1.481	1.307	11.7	89	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	81	0.00
30	Pyrene	1.477	1.615	-9.3	89	0.00
31 S	Terphenyl-d14	0.789	0.891	-12.9	91	0.00
32	Benzo(a)anthracene	1.399	1.227	12.3	73	0.00
33	Chrysene	1.443	1.548	-7.3	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.600	-8.5	94	0.00
35 I	Perylene-d12	1.000	1.000	0.0	73	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.578	-0.9	75	0.00
37	Benzo(b)fluoranthene	1.463	1.726	-18.0	96	0.00
38	Benzo(k)fluoranthene	1.440	1.461	-1.5	76	0.00
39 C	Benzo(a)pyrene	1.205	1.171	2.8	75	0.00
40	Dibenzo(a,h)anthracene	1.234	1.200	2.8	74	0.00
41	Benzo(g,h,i)perylene	1.289	1.412	-9.5	83	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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	141	0.00
2	1,4-Dioxane	0.400	0.466	-16.5	167	0.00
3	n-Nitrosodimethylamine	0.400	0.451	-12.7	155	0.00
4 S	2-Fluorophenol	0.400	0.408	-2.0	141	0.00
5 S	Phenol-d6	0.400	0.391	2.3	139	0.00
6	bis(2-Chloroethyl)ether	0.400	0.359	10.3	129	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	143	-0.01
8 S	Nitrobenzene-d5	0.400	0.481	-20.2	179	0.00
9	Naphthalene	0.400	0.412	-3.0	148	0.00
10	Hexachlorobutadiene	0.400	0.464	-16.0	163	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.397	0.8	143	0.00
12	2-Methylnaphthalene	0.400	0.378	5.5	138	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	121	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.331	17.3	111	0.00
15 S	2-Fluorobiphenyl	0.400	0.413	-3.2	125	0.00
16	Acenaphthylene	0.400	0.387	3.3	123	-0.01
17	Acenaphthene	0.400	0.405	-1.3	126	-0.01
18	Fluorene	0.400	0.367	8.3	115	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.110	72.5#	29	0.01
21	4-Bromophenyl-phenylether	0.400	0.393	1.8	98	-0.01
22	Hexachlorobenzene	0.400	0.487	-21.7	119	-0.01
23	Atrazine	0.400	0.414	-3.5	108	0.00
24	Pentachlorophenol	0.400	0.370	7.5	112	0.00
25	Phenanthrene	0.400	0.391	2.3	97	0.00
26	Anthracene	0.400	0.378	5.5	97	0.00
27 SURR	Fluoranthene-d10	0.400	0.379	5.3	96	0.00
28	Fluoranthene	0.400	0.353	11.8	89	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	81	0.00
30	Pyrene	0.400	0.438	-9.5	89	0.00
31 S	Terphenyl-d14	0.400	0.452	-13.0	91	0.00
32	Benzo(a)anthracene	0.400	0.351	12.3	73	0.00
33	Chrysene	0.400	0.429	-7.2	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.434	-8.5	94	0.00
35 I	Perylene-d12	0.400	0.400	0.0	73	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.404	-1.0	75	0.00
37	Benzo(b)fluoranthene	0.400	0.472	-18.0	96	0.00
38	Benzo(k)fluoranthene	0.400	0.406	-1.5	76	0.00
39 C	Benzo(a)pyrene	0.400	0.389	2.8	75	0.00
40	Dibenzo(a,h)anthracene	0.400	0.389	2.8	74	0.00
41	Benzo(g,h,i)perylene	0.400	0.438	-9.5	83	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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/21/2024 05:10

Lab File ID: BN035765.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	0.578		-7.7	50.0
Fluoranthene-d10	1.134	0.989		-12.8	50.0
2-Fluorophenol	1.001	0.960		-4.1	50.0
Phenol-d6	1.204	1.094		-9.1	50.0
Nitrobenzene-d5	0.244	0.284		16.4	50.0
2-Fluorobiphenyl	1.512	1.389		-8.1	50.0
2,4,6-Tribromophenol	0.284	0.215		-24.3	50.0
Terphenyl-d14	0.789	0.863		9.4	50.0
1,4-Dioxane	0.382	0.439		14.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035765.D
 Acq On : 21 Dec 2024 05:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 56 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 05:39:14 2024

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3545	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9106	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	5821	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	12321	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9836	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	10740	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3403	0.384	ng	0.00
5) Phenol-d6	6.477	99	3879	0.364	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2582m	0.464	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	5263	0.369	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	1253	0.303	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	8084	0.367	ng	0.00
27) Fluoranthene-d10	18.757	212	12191	0.349	ng	0.00
31) Terphenyl-d14	19.388	244	8488	0.437	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	2.982	88	1555	0.459	ng	96
3) n-Nitrosodimethylamine	3.278	42	1104	0.391	ng	# 93
6) bis(2-Chloroethyl)ether	6.723	93	3165	0.353	ng	98
9) Naphthalene	10.063	128	9097	0.379	ng	100
10) Hexachlorobutadiene	10.351	225	2300	0.415	ng	# 99
12) 2-Methylnaphthalene	11.692	142	6016	0.350	ng	99
16) Acenaphthylene	13.636	152	8764	0.359	ng	99
17) Acenaphthene	13.989	154	6047	0.373	ng	98
18) Fluorene	14.993	166	7942	0.342	ng	100
20) 4,6-Dinitro-2-methylph...	15.132	198	142	0.117	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2531	0.351	ng	# 83
22) Hexachlorobenzene	16.003	284	3667	0.433	ng	97
23) Atrazine	16.202	200	1895	0.369	ng	96
24) Pentachlorophenol	16.376	266	1177	0.320	ng	# 86
25) Phenanthrene	16.735	178	12350	0.365	ng	99
26) Anthracene	16.835	178	10612	0.347	ng	99
28) Fluoranthene	18.789	202	15375	0.337	ng	99
30) Pyrene	19.156	202	15587	0.429	ng	100
32) Benzo(a)anthracene	20.938	228	11659	0.339	ng	100
33) Chrysene	20.991	228	14263	0.402	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	5697	0.419	ng	99
36) Indeno(1,2,3-cd)pyrene	25.064	276	15666	0.373	ng	99
37) Benzo(b)fluoranthene	22.427	252	19003	0.484	ng	98
38) Benzo(k)fluoranthene	22.468	252	15020m	0.388	ng	
39) Benzo(a)pyrene	22.947	252	11742	0.363	ng	94
40) Dibenzo(a,h)anthracene	25.079	278	11661	0.352	ng	97
41) Benzo(g,h,i)perylene	25.675	276	14236	0.411	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035765.D
 Acq On : 21 Dec 2024 05:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

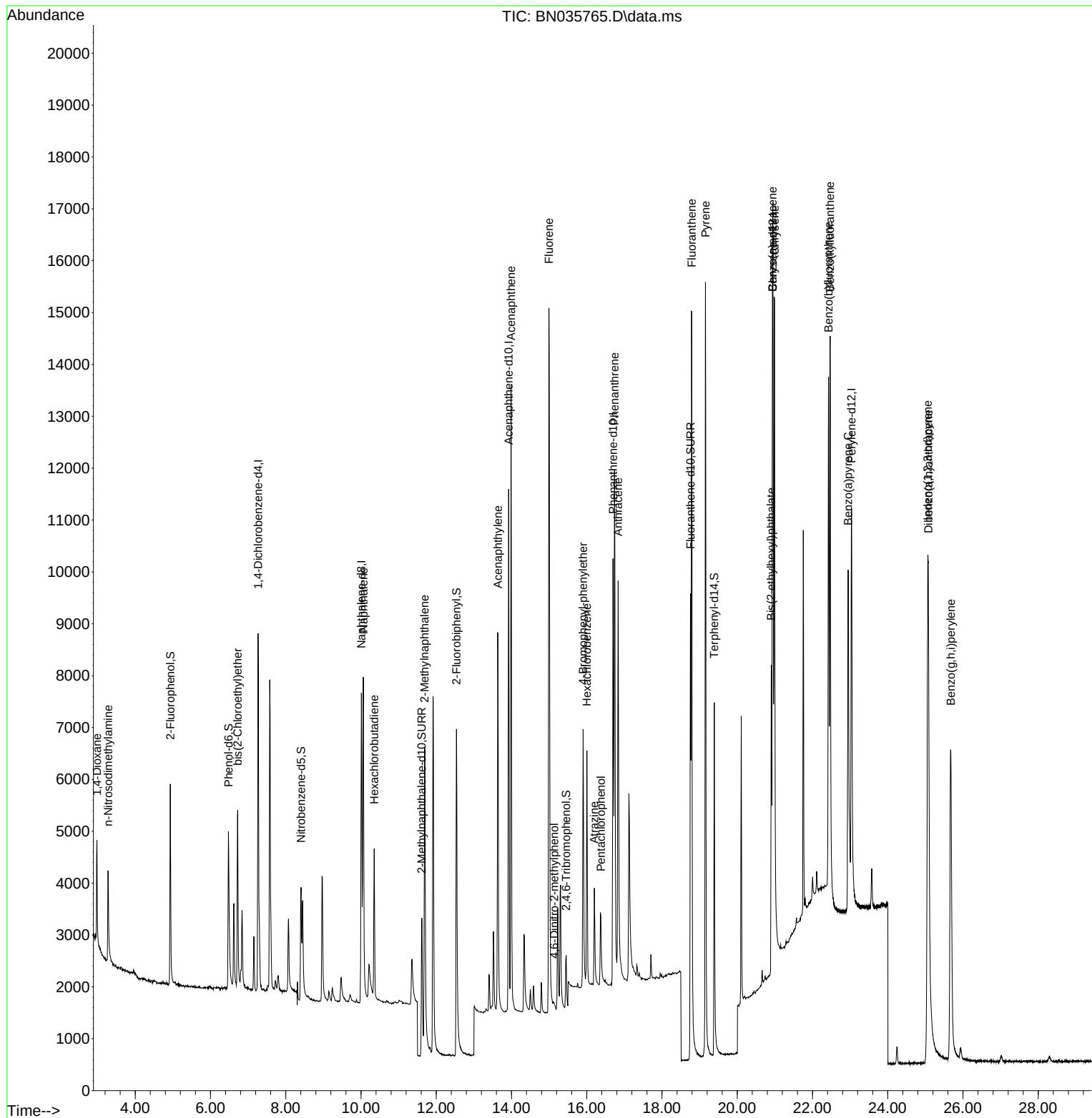
SSTDCCC0.4EC

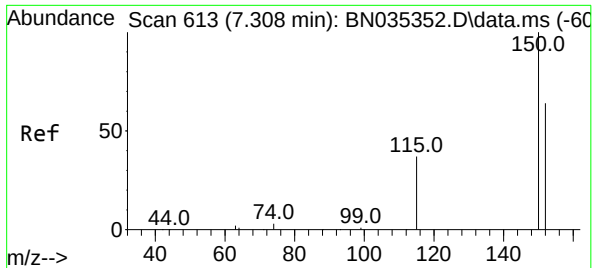
Manual Integrations

APPROVED

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

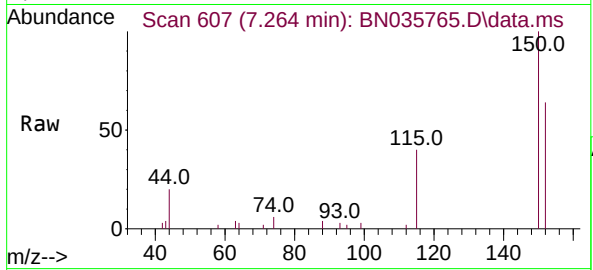
Quant Time: Dec 21 05:39:14 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

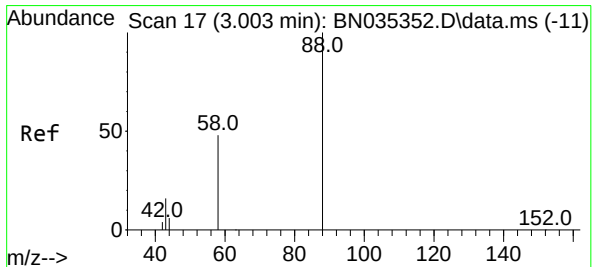
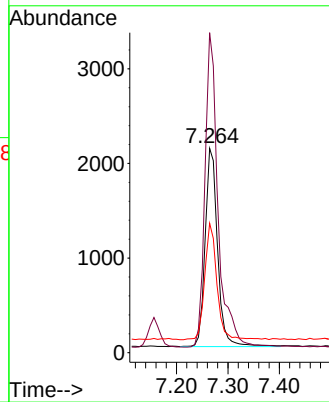
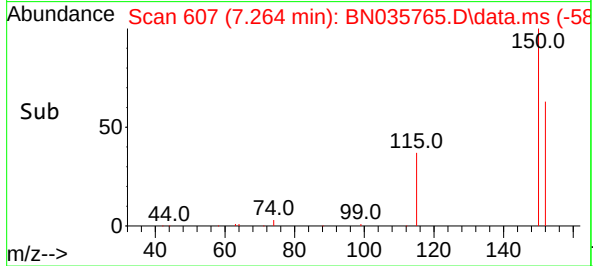
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 354
Ion Ratio Lower Upper
152 100
150 156.6 124.0 186.0
115 63.3 49.6 74.4

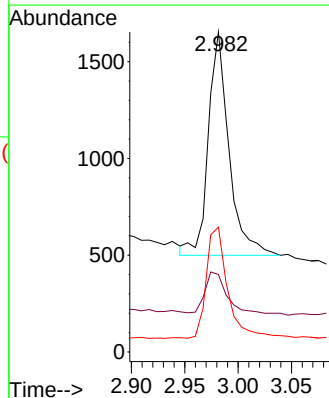
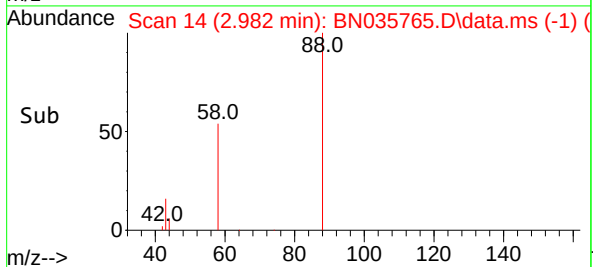
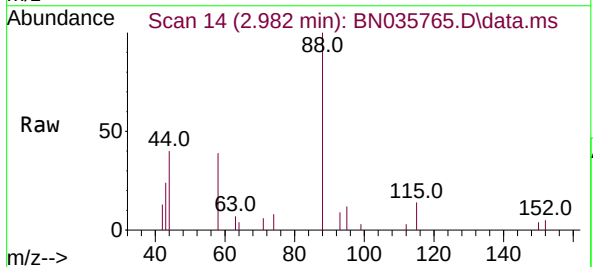
Manual Integrations
APPROVED

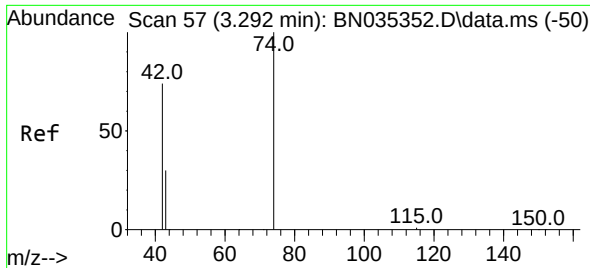
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#2
1,4-Dioxane
Concen: 0.459 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

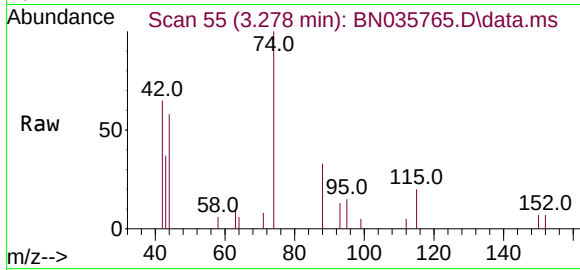
Tgt Ion: 88 Resp: 1555
Ion Ratio Lower Upper
88 100
43 22.1 17.2 25.8
58 52.2 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.278 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

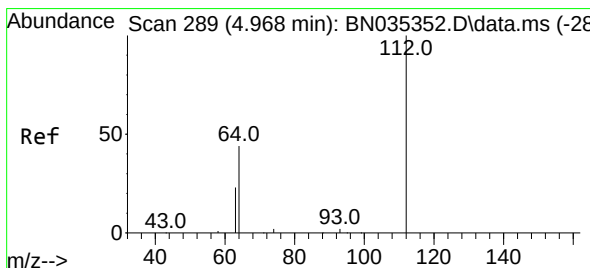
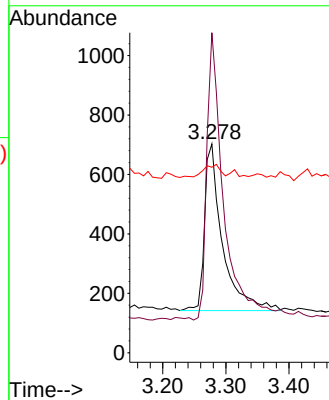
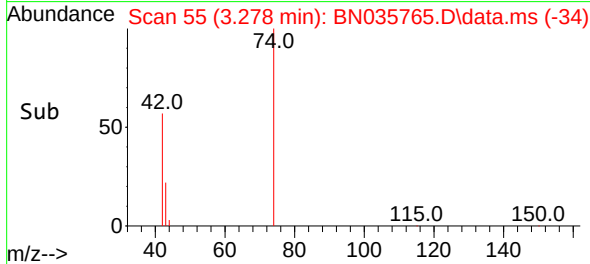
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 1104
Ion Ratio Lower Upper
42 100
74 165.7 124.9 187.3
44 6.3 2.2 3.4

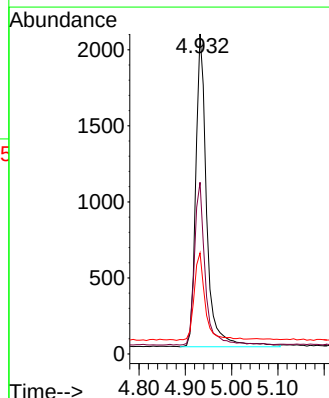
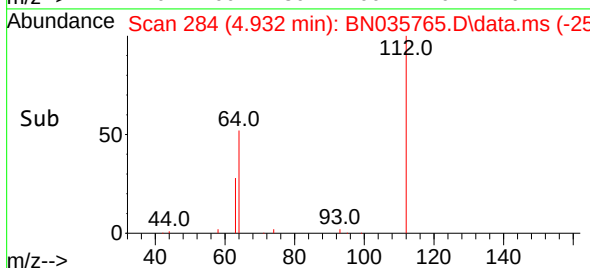
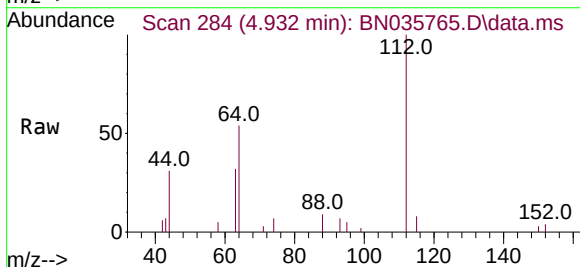
Manual Integrations
APPROVED

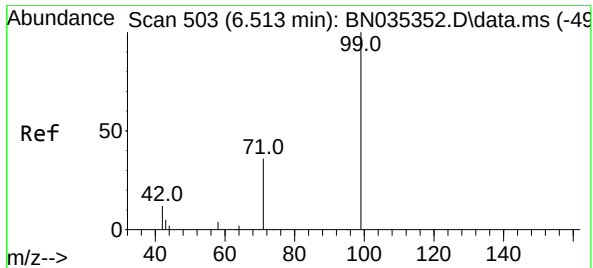
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#4
2-Fluorophenol
Concen: 0.384 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:112 Resp: 3403
Ion Ratio Lower Upper
112 100
64 51.2 39.8 59.8
63 28.0 21.0 31.6





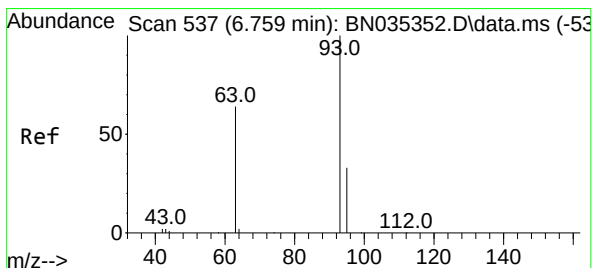
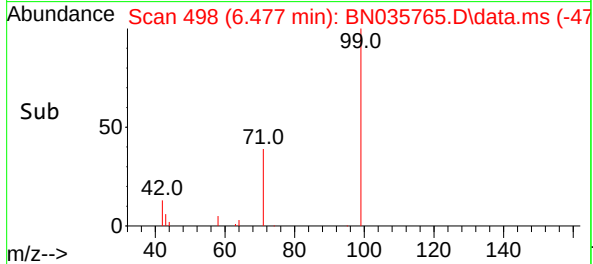
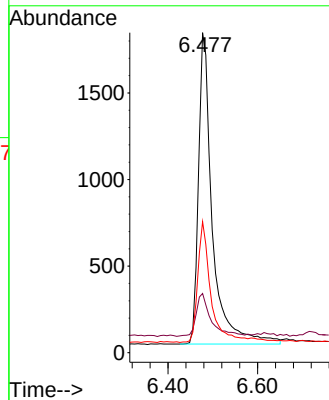
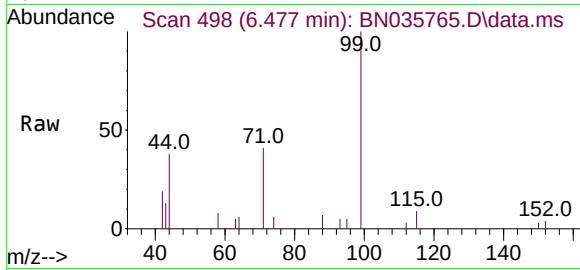
#5
Phenol-d6
Concen: 0.364 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	35.9	29.3	43.9

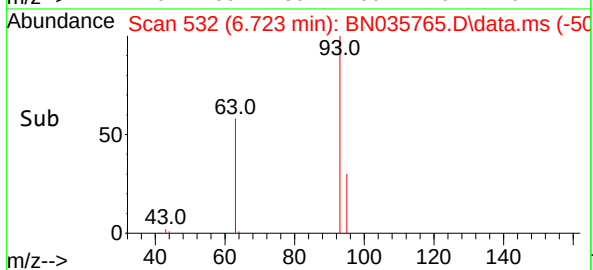
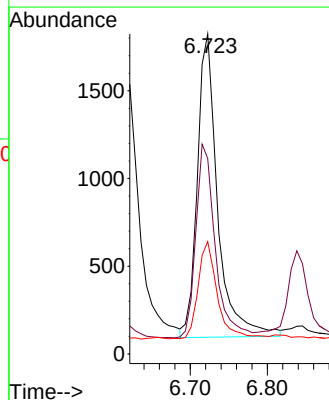
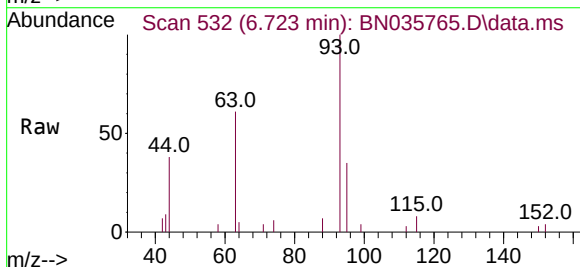
Manual Integrations
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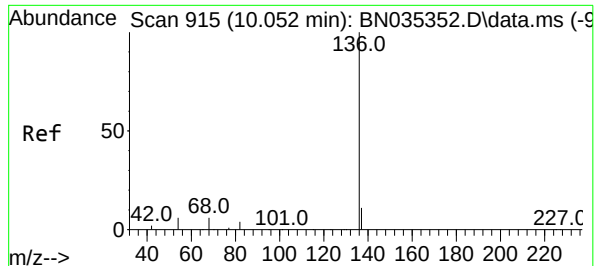
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion	Ratio	Lower	Upper
93	100		
63	61.5	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: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

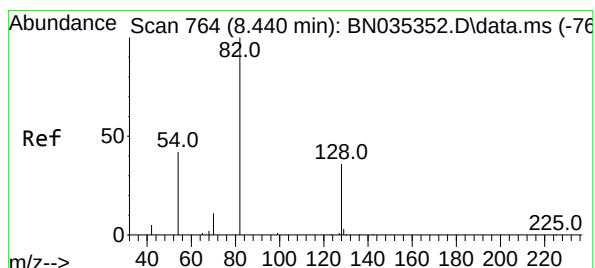
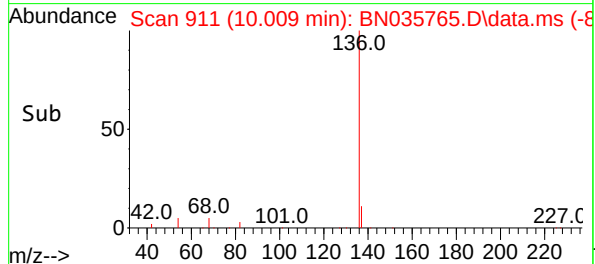
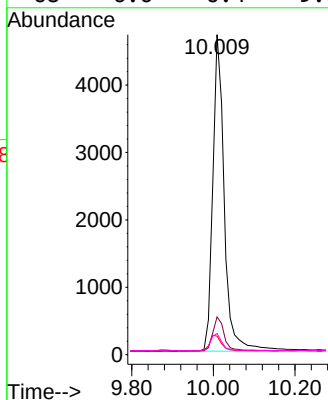
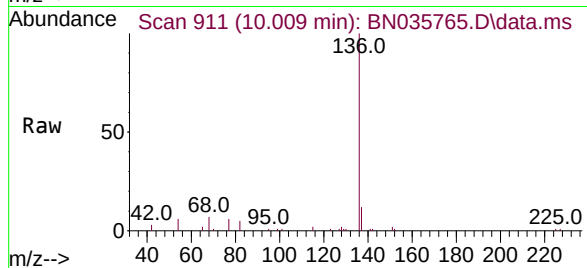
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:136 Resp: 9100
Ion Ratio Lower Upper
136 100
137 11.8 10.2 15.2
54 5.8 6.1 9.1
68 6.6 6.4 9.6

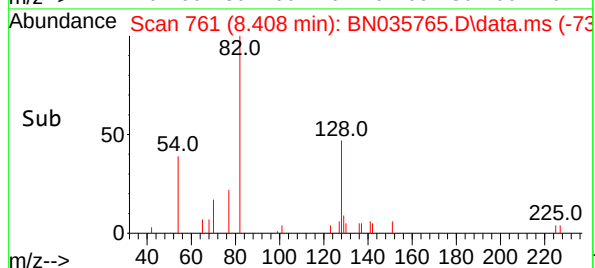
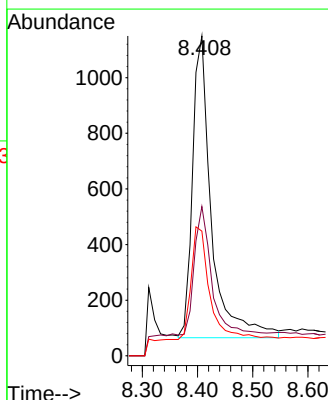
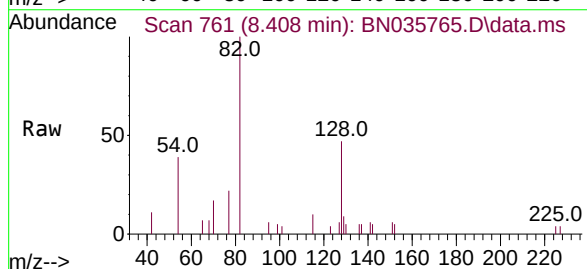
Manual Integrations
APPROVED

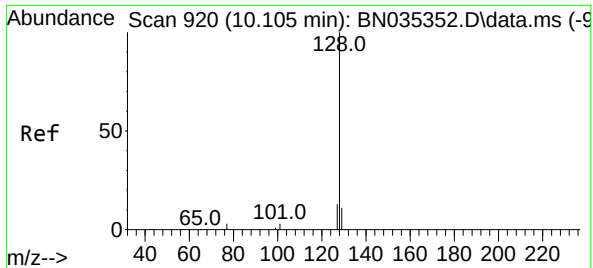
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#8
Nitrobenzene-d5
Concen: 0.464 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 82 Resp: 2582
Ion Ratio Lower Upper
82 100
128 46.7 33.4 50.0
54 39.0 36.7 55.1





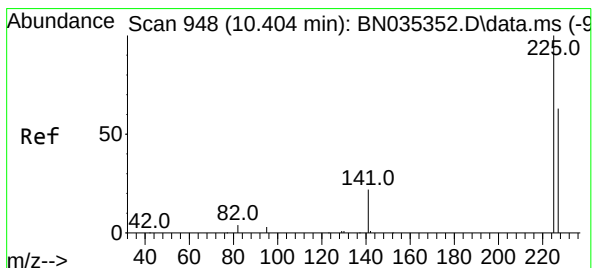
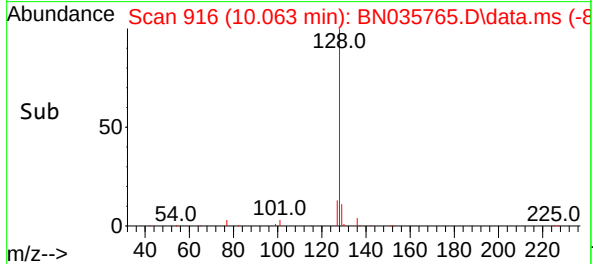
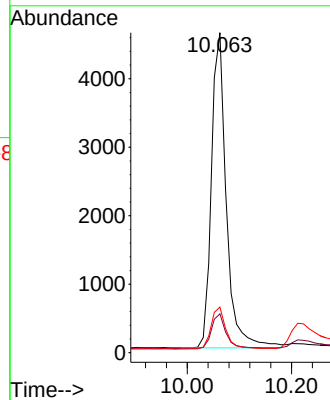
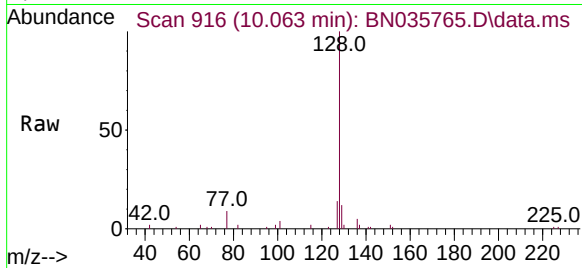
#9
Naphthalene
Concen: 0.379 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

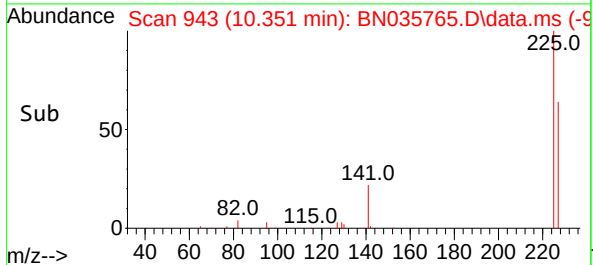
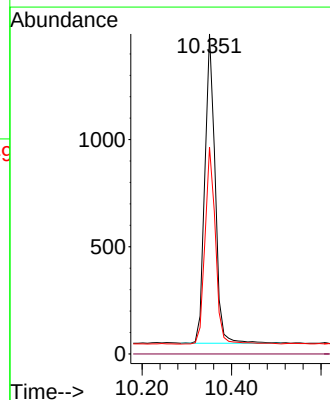
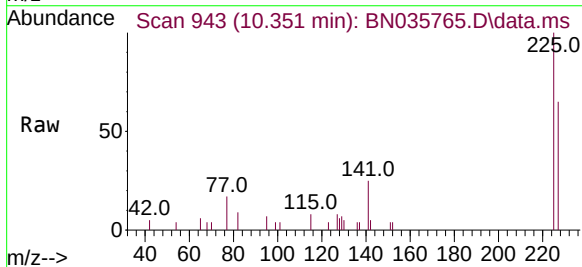
Manual Integrations
APPROVED

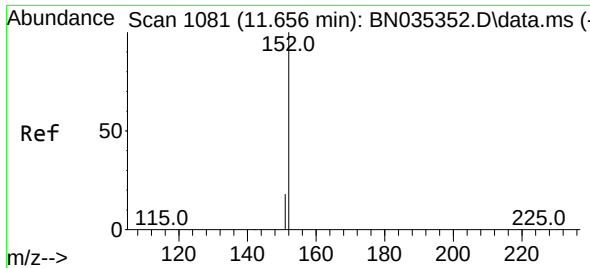
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

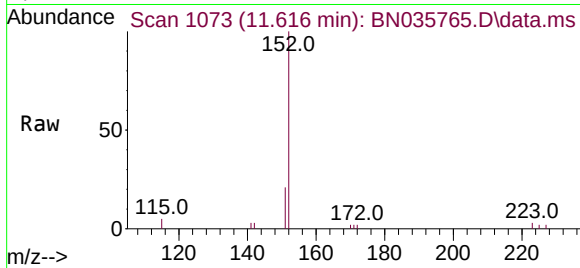
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

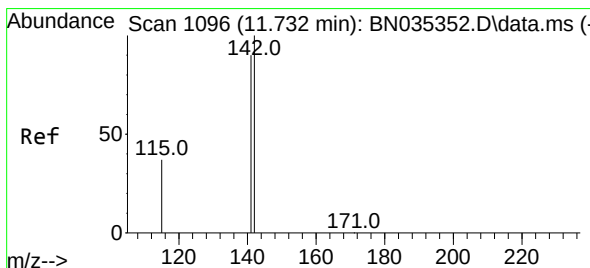
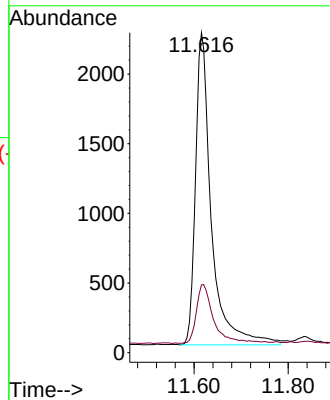
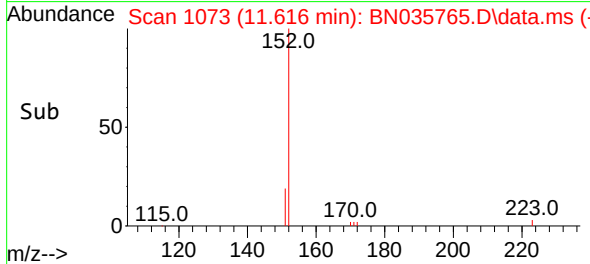
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



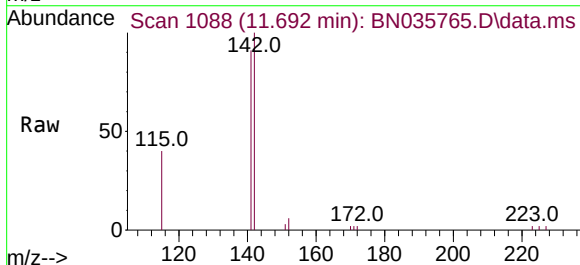
Tgt Ion:152 Resp: 526
Ion Ratio Lower Upper
152 100
151 19.7 16.6 25.0

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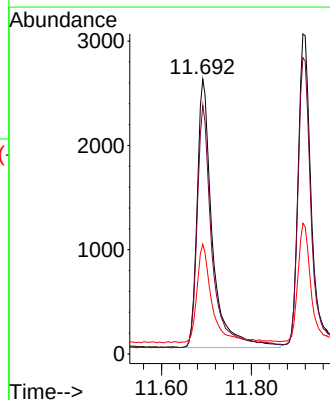
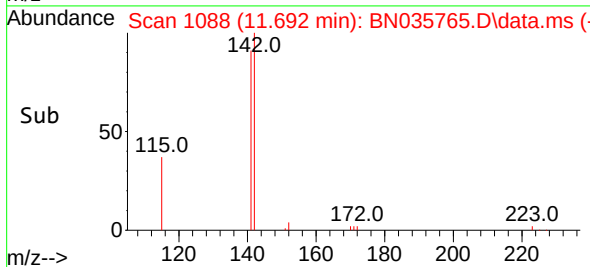
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

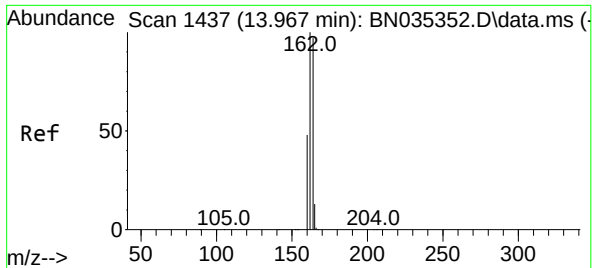


#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10



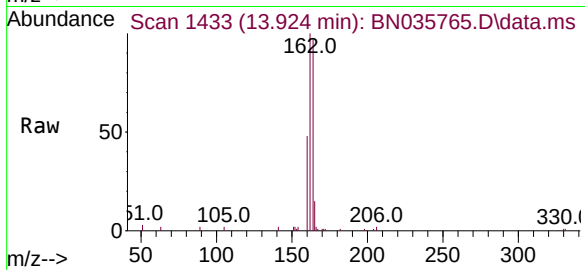
Tgt Ion:142 Resp: 6016
Ion Ratio Lower Upper
142 100
141 90.5 72.2 108.4
115 39.9 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

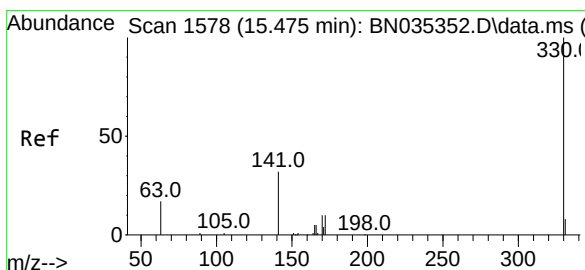
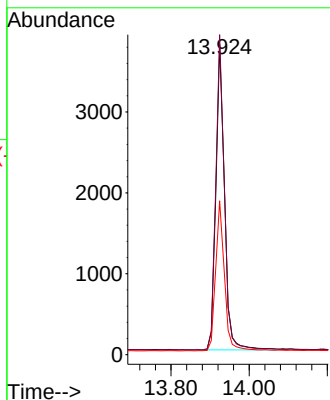
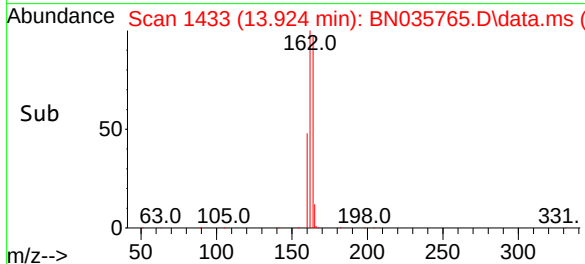
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 582
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.2
160 49.6 40.1 60.1

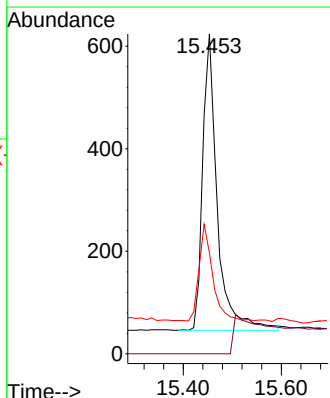
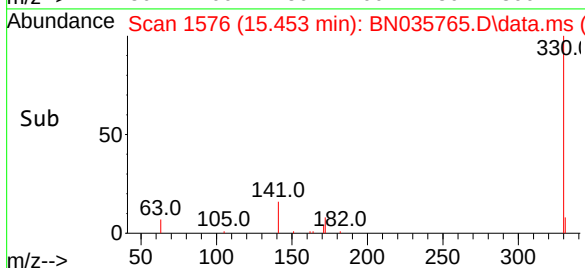
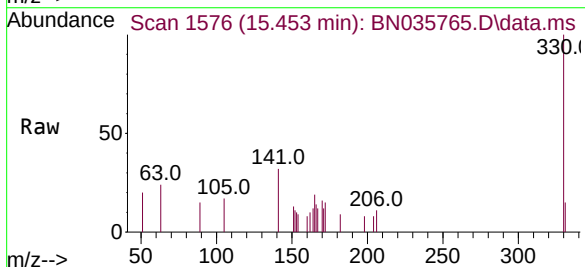
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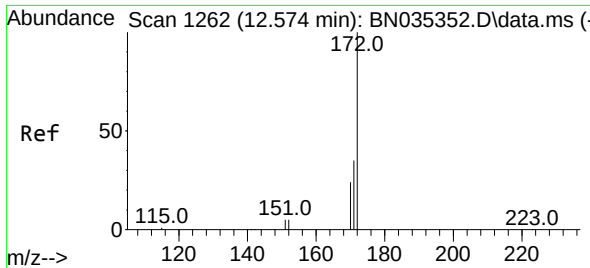
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#14
2,4,6-Tribromophenol
Concen: 0.303 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:330 Resp: 1253
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.6 26.6 40.0





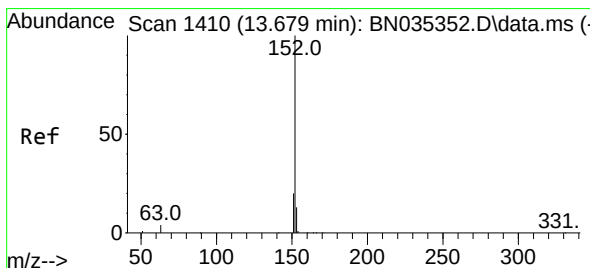
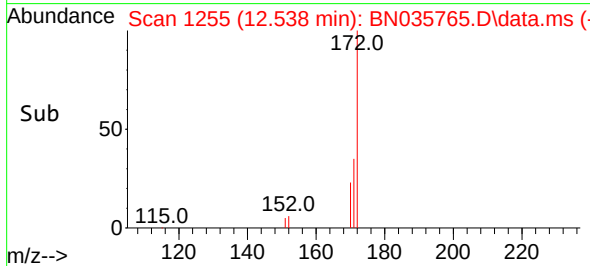
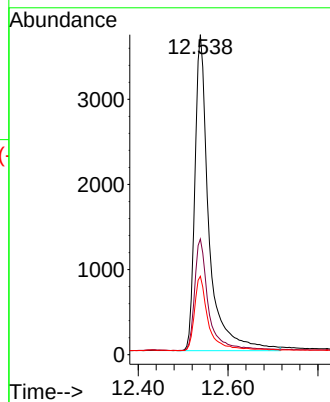
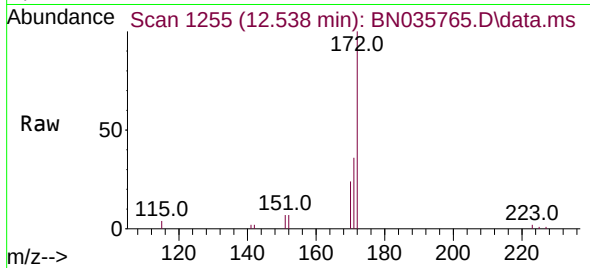
#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.538 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 8084
Ion Ratio Lower Upper
172 100
171 36.1 29.0 43.4
170 24.5 19.8 29.8

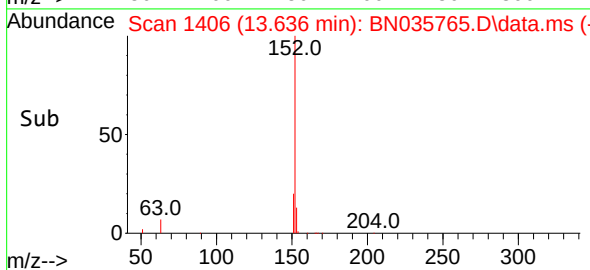
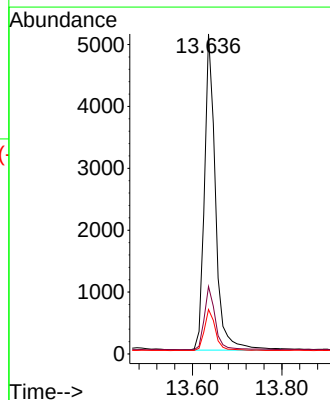
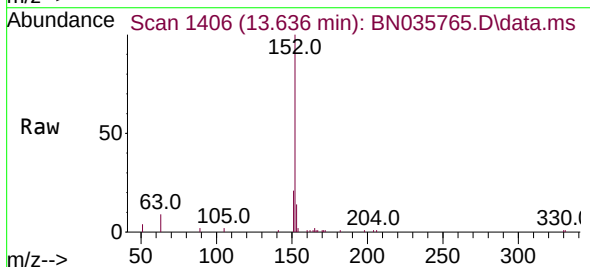
Manual Integrations
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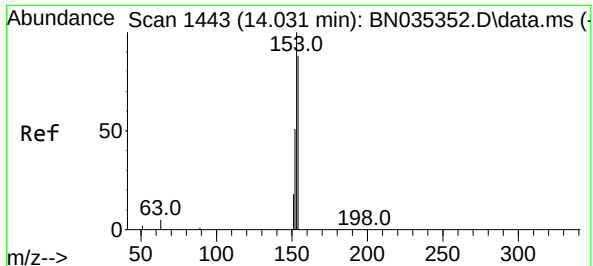
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#16
Acenaphthylene
Concen: 0.359 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

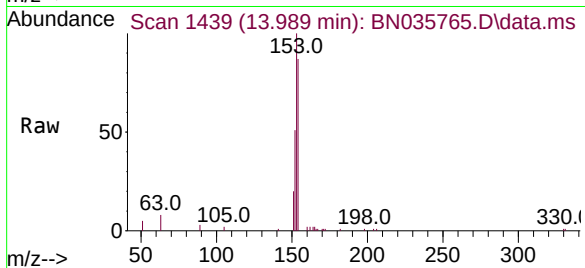
Tgt Ion:152 Resp: 8764
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 13.0 10.4 15.6





#17
Acenaphthene
Concen: 0.373 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

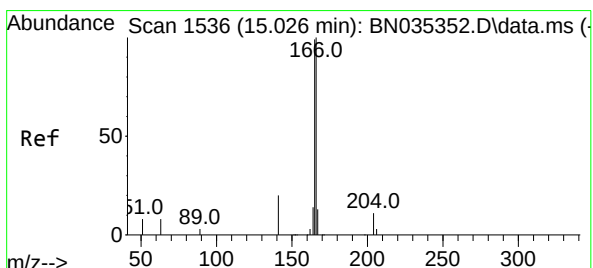
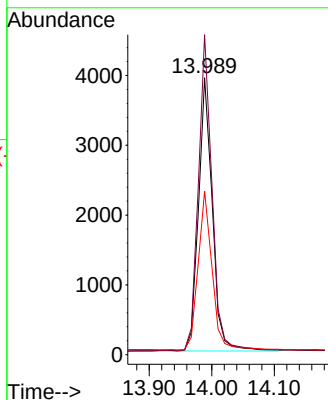
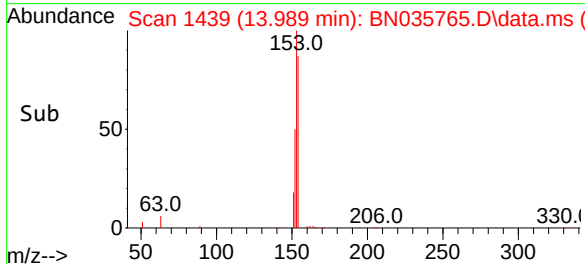
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 604
Ion Ratio Lower Upper
154 100
153 114.7 92.6 139.0
152 58.8 49.0 73.6

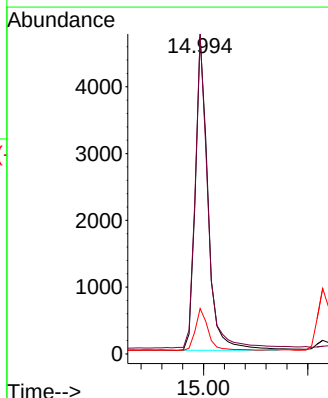
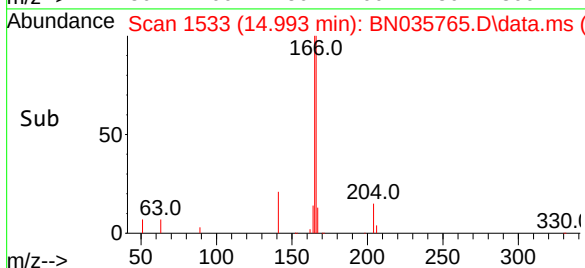
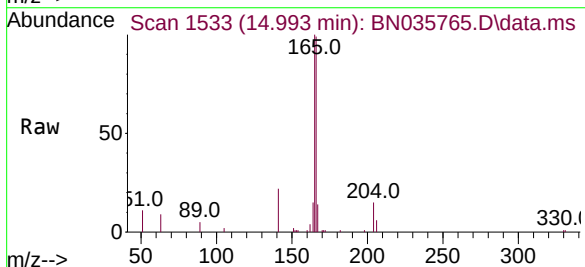
Manual Integrations
APPROVED

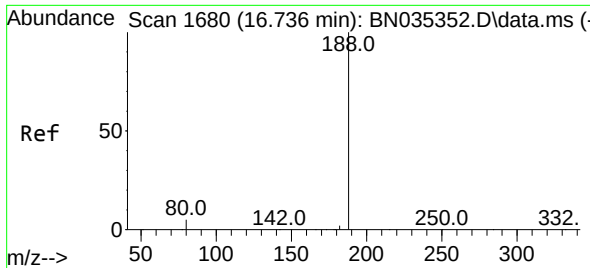
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#18
Fluorene
Concen: 0.342 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:166 Resp: 7942
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

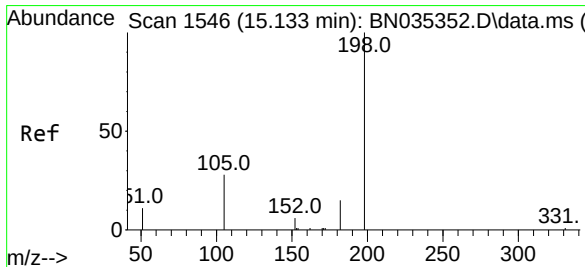
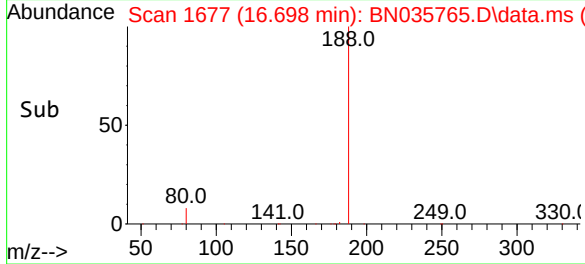
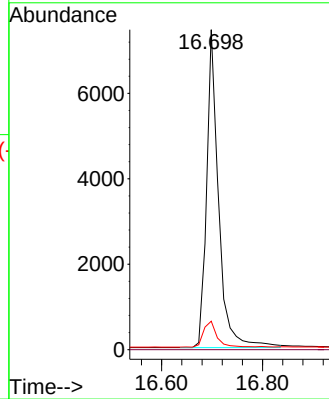
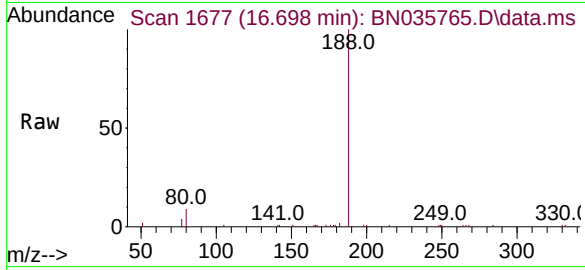
SSTDCCC0.4EC

Tgt Ion:188	Resp:	1232
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.9	4.6

Manual Integrations

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



#20

4,6-Dinitro-2-methylphenol

Concen: 0.117 ng

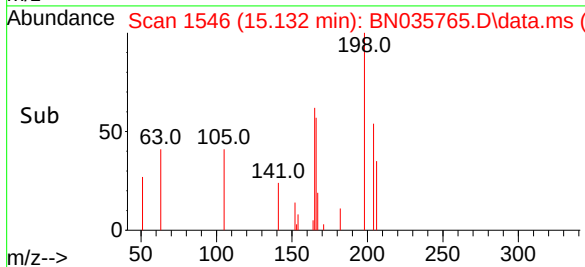
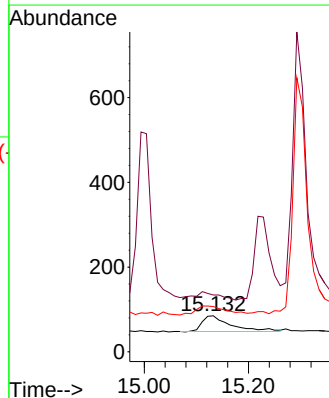
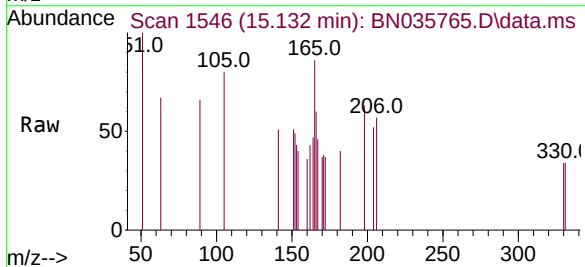
RT: 15.132 min Scan# 1546

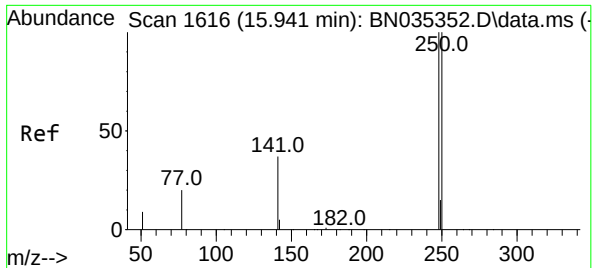
Delta R.T. 0.011 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

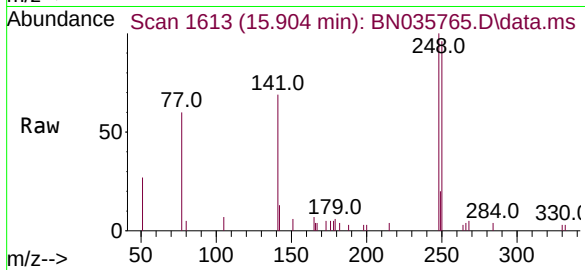
Tgt Ion:198	Resp:	142
Ion Ratio	Lower	Upper
198	100	
51	157.6	46.5
105	125.9	45.3





#21
4-Bromophenyl-phenylether
Concen: 0.351 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

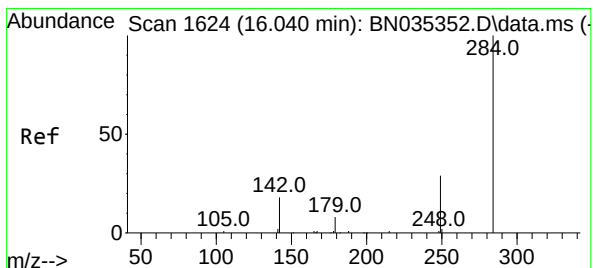
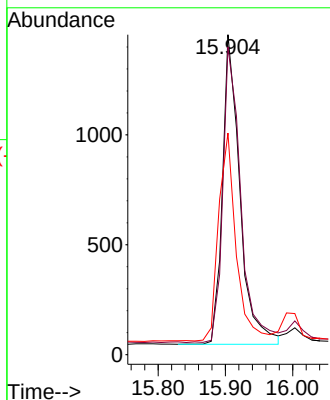
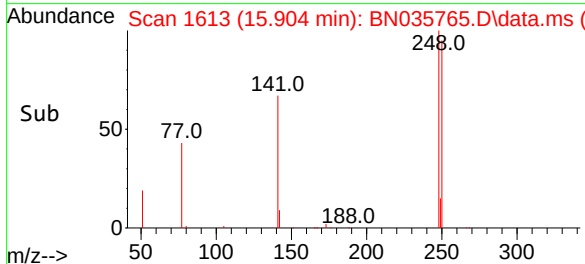
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 253
Ion Ratio Lower Upper
248 100
250 96.2 80.6 120.8
141 69.2 31.5 47.3

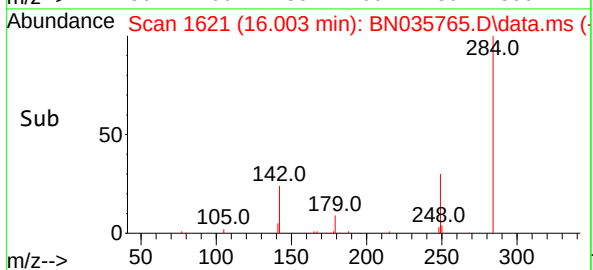
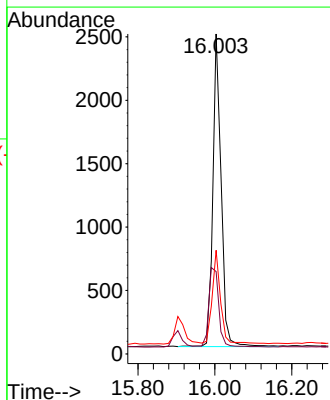
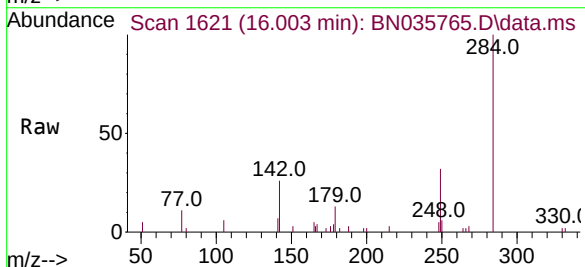
Manual Integrations
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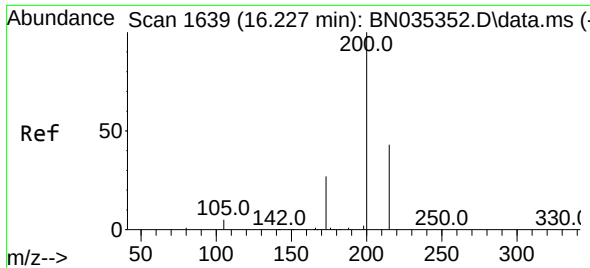
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#22
Hexachlorobenzene
Concen: 0.433 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:284 Resp: 3667
Ion Ratio Lower Upper
284 100
142 30.7 26.7 40.1
249 29.9 24.6 36.8





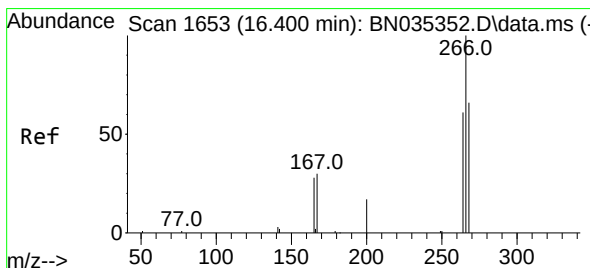
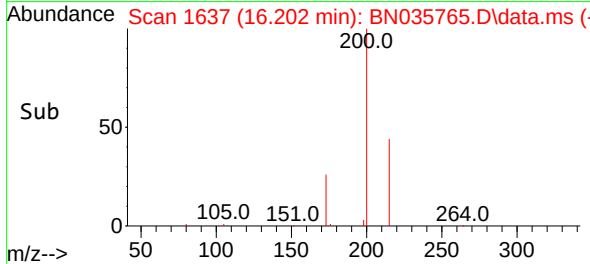
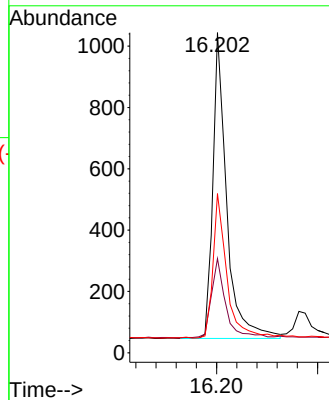
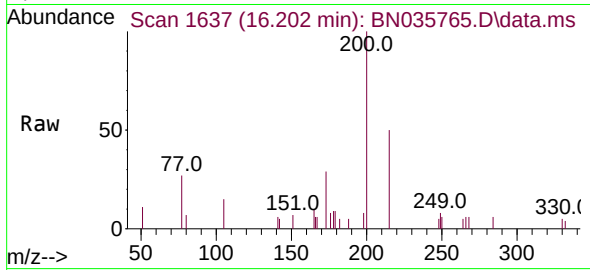
#23
Atrazine
Concen: 0.369 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.4	24.1	36.1
215	49.7	36.9	55.3

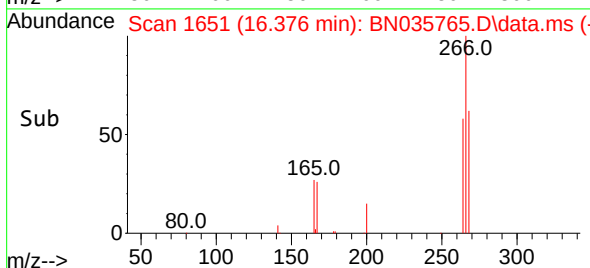
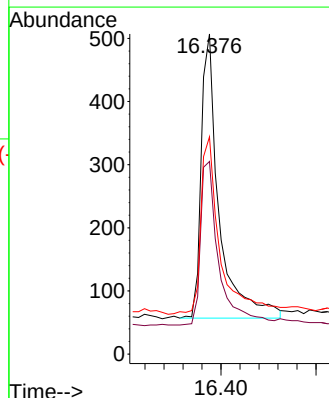
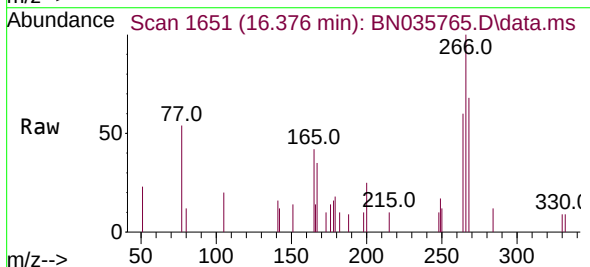
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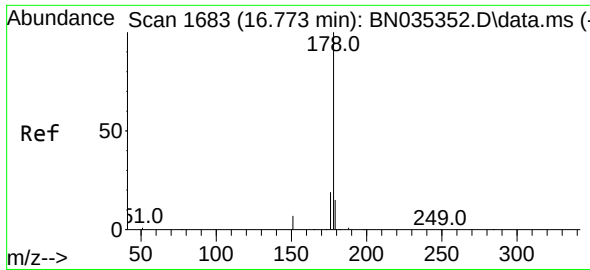
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.3	42.3	63.5
268	67.2	43.3	64.9





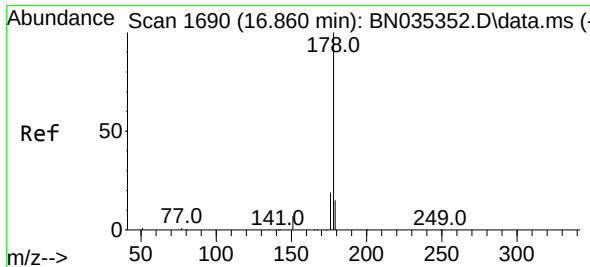
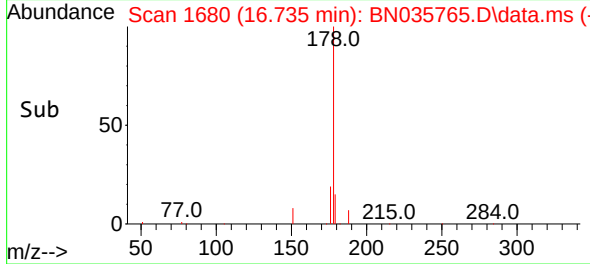
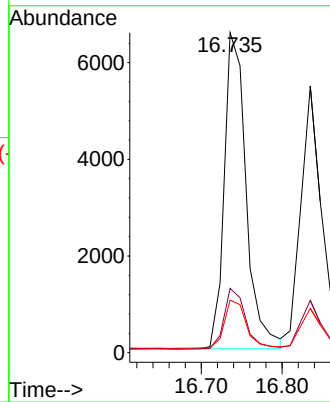
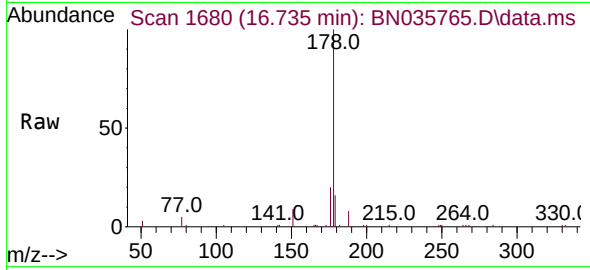
#25
Phenanthrene
Concen: 0.365 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 12350
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.4 12.3 18.5

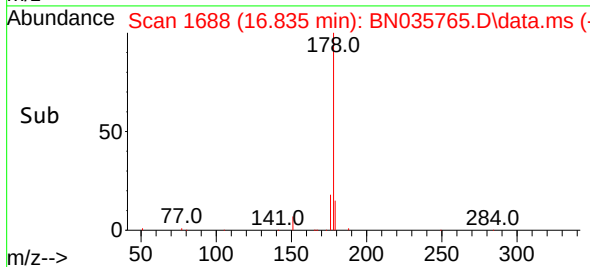
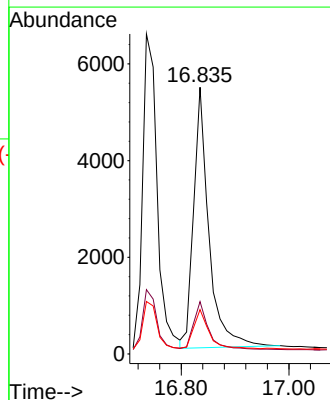
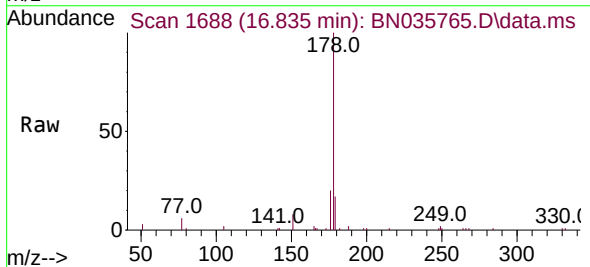
Manual Integrations
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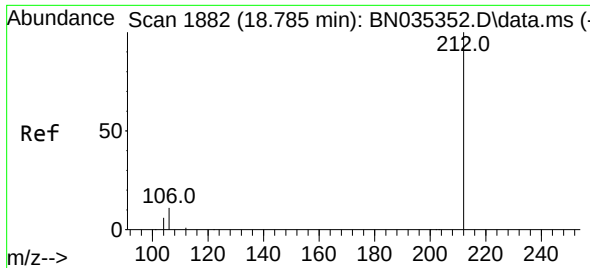
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#26
Anthracene
Concen: 0.347 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:178 Resp: 10612
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.349 ng

RT: 18.757 min Scan# 1876

Delta R.T. -0.005 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:212 Resp: 1219

Ion Ratio Lower Upper

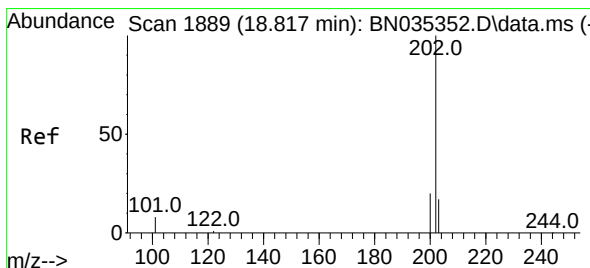
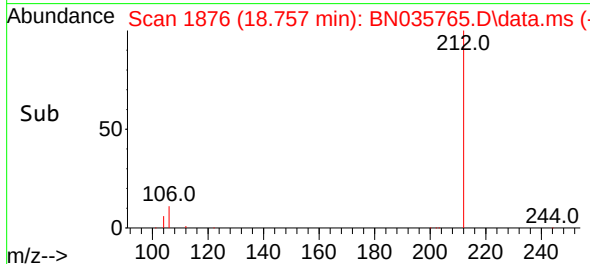
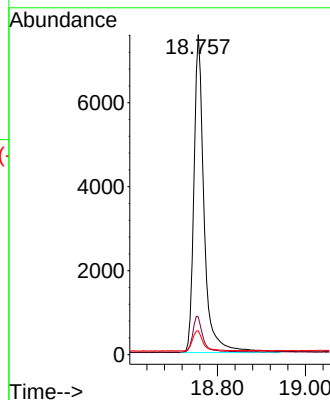
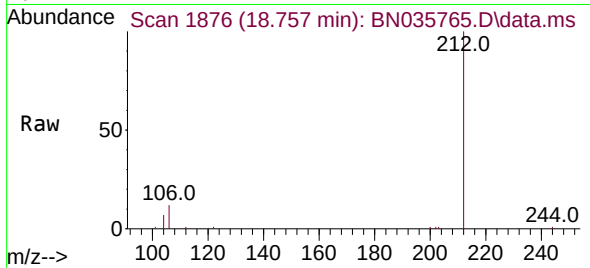
212 100

106 11.4 9.2 13.8

104 6.5 5.3 7.9

Manual Integrations

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

#28

Fluoranthene

Concen: 0.337 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

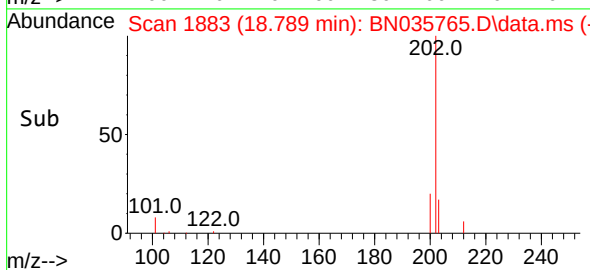
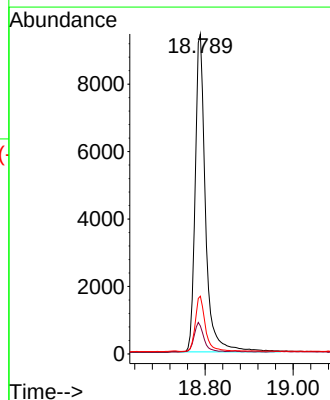
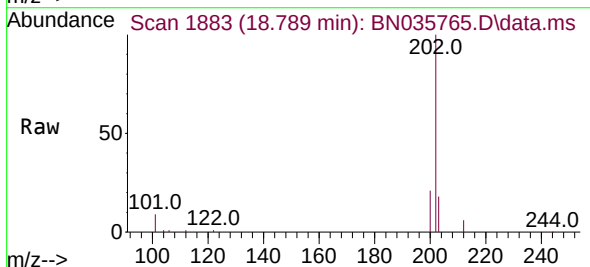
Tgt Ion:202 Resp: 15375

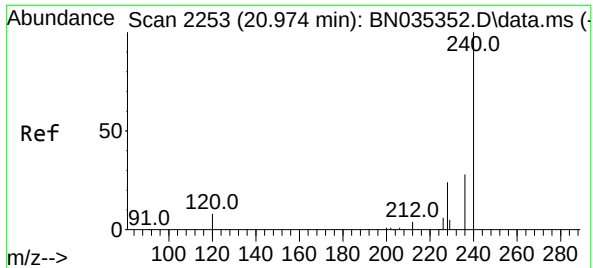
Ion Ratio Lower Upper

202 100

101 9.2 7.4 11.0

203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

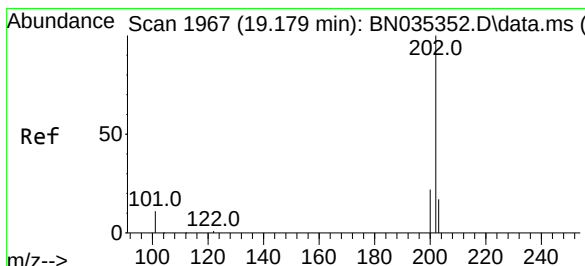
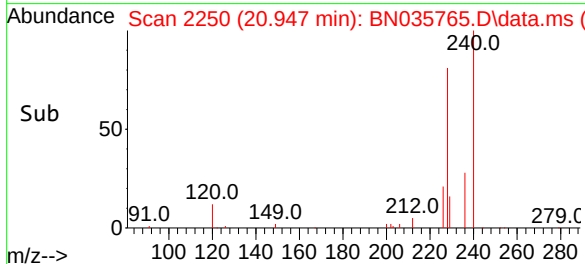
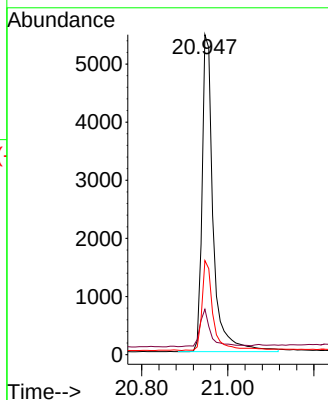
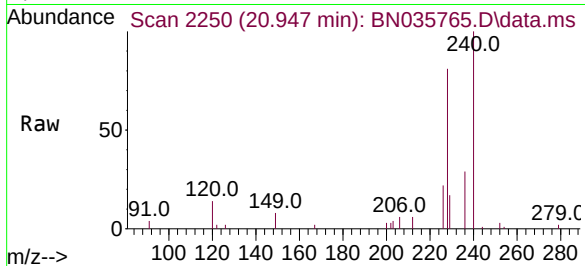
SSTDCCC0.4EC

Tgt Ion:	240	Resp:	9830
Ion Ratio	Lower	Upper	
240	100		
120	14.2	7.9	11.9
236	29.4	22.9	34.3

Manual Integrations

APPROVED

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



#30

Pyrene

Concen: 0.429 ng

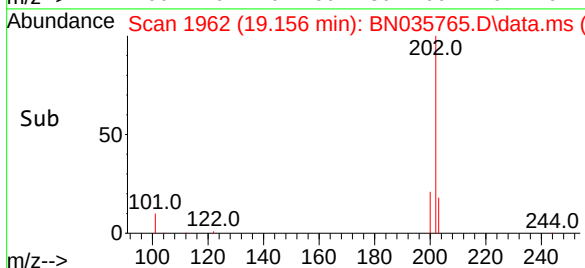
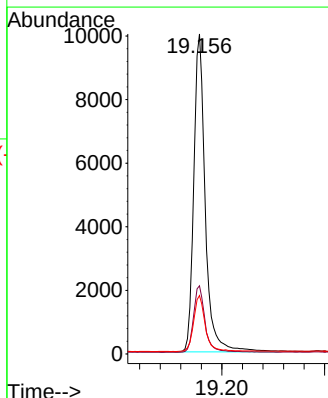
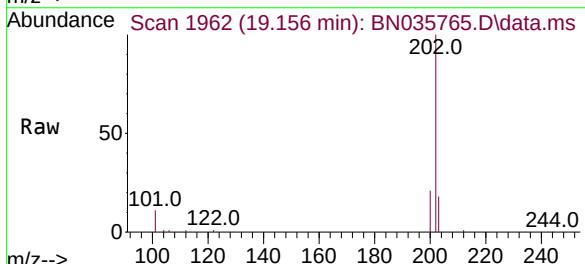
RT: 19.156 min Scan# 1962

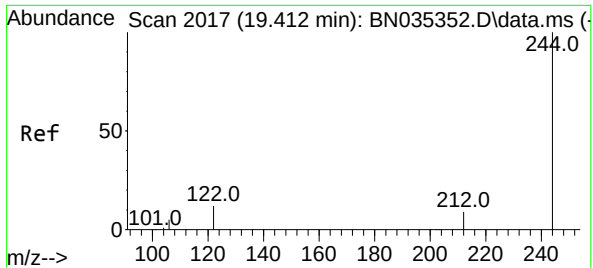
Delta R.T. -0.005 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Tgt Ion:	202	Resp:	15587
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5





#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.388 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

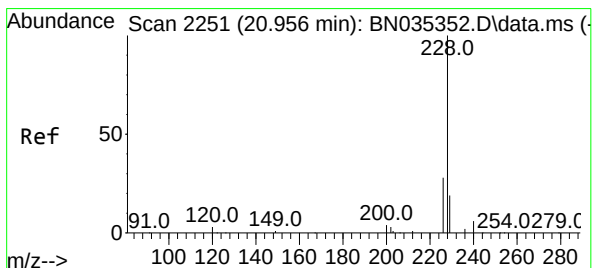
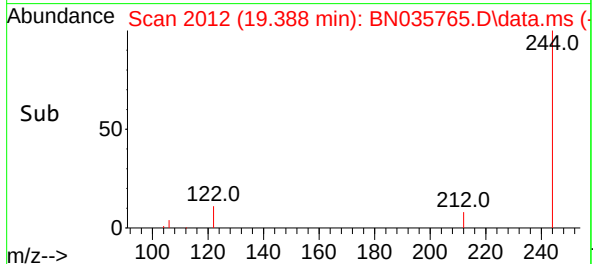
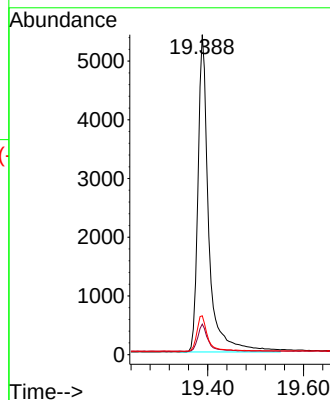
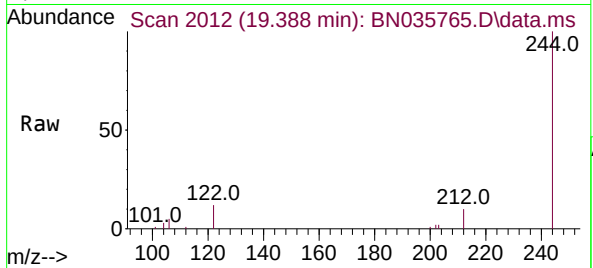
SSTDCCC0.4EC

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

Manual Integrations

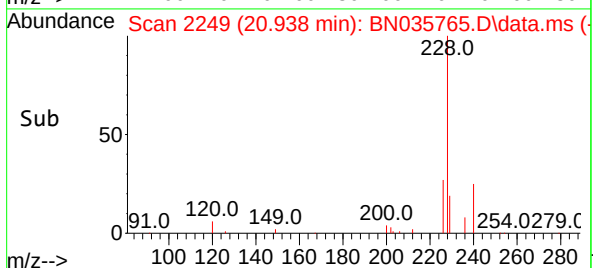
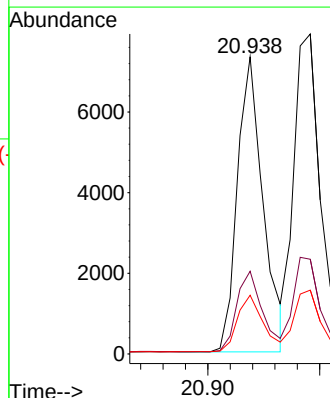
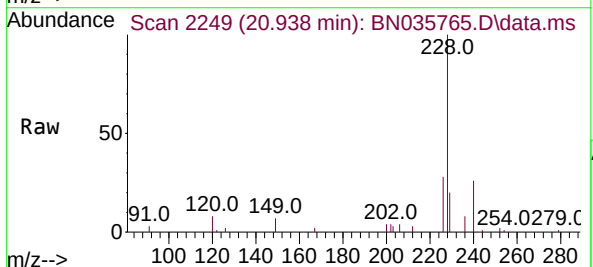
APPROVED

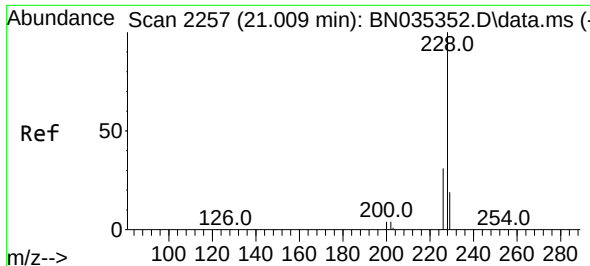
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#32
Benzo(a)anthracene
Concen: 0.339 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.5	33.7
229	19.8	15.8	23.8





#33

Chrysene

Concen: 0.402 ng

RT: 20.991 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:228 Resp: 1426

Ion Ratio Lower Upper

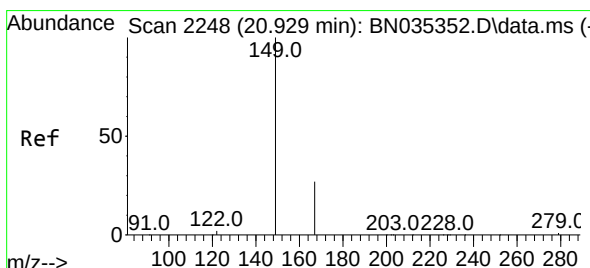
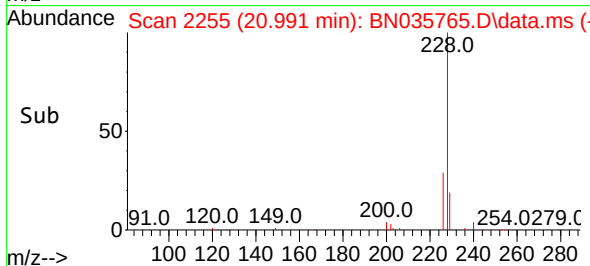
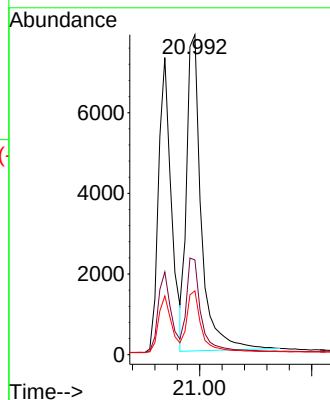
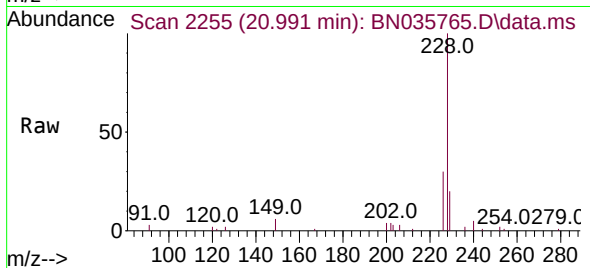
228 100

226 29.6 24.6 37.0

229 20.0 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: 0.419 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

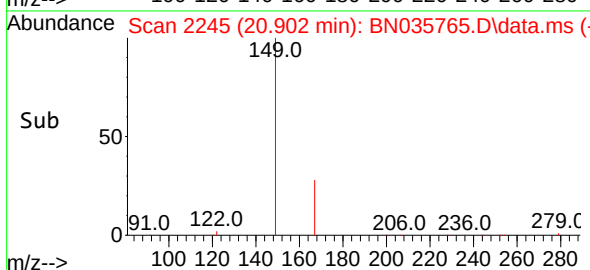
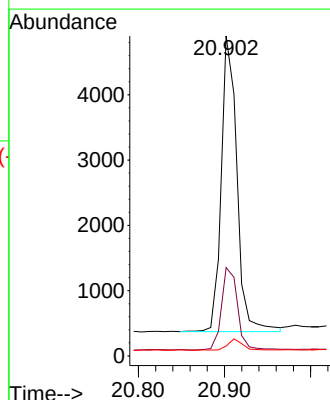
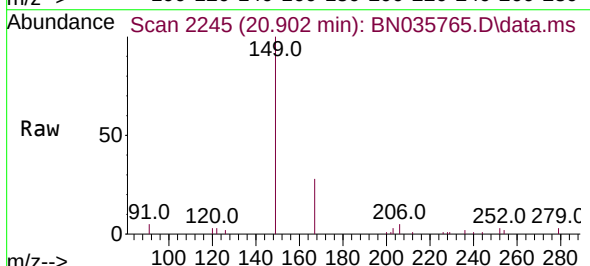
Tgt Ion:149 Resp: 5697

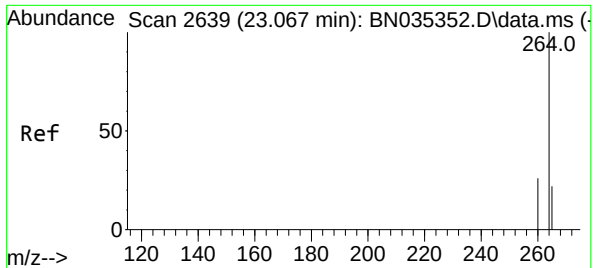
Ion Ratio Lower Upper

149 100

167 28.5 22.2 33.4

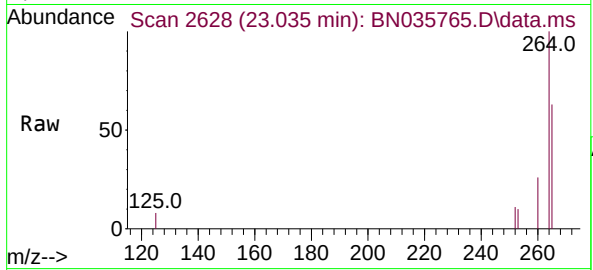
279 3.9 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 20
Delta R.T. -0.006 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

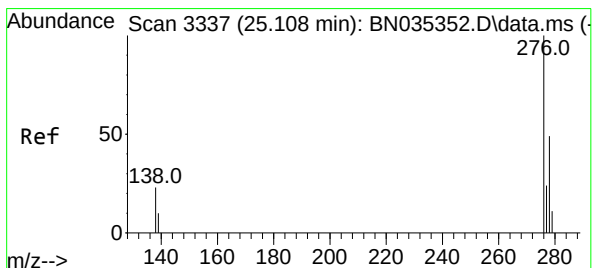
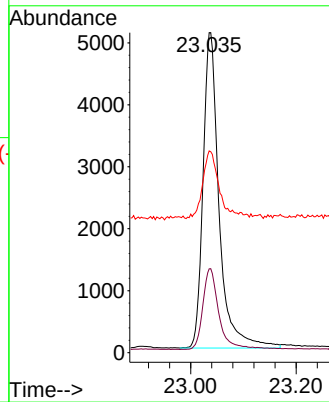
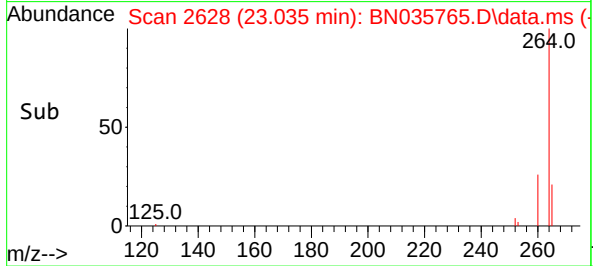
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 10740
Ion Ratio Lower Upper
264 100
260 26.2 21.4 32.2
265 63.0 40.2 60.4

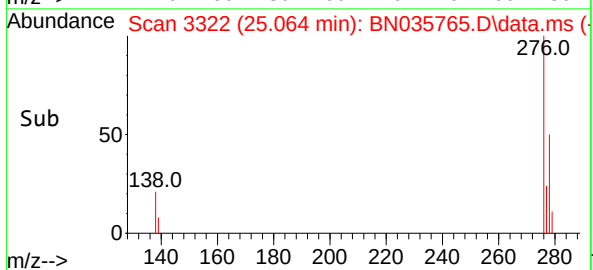
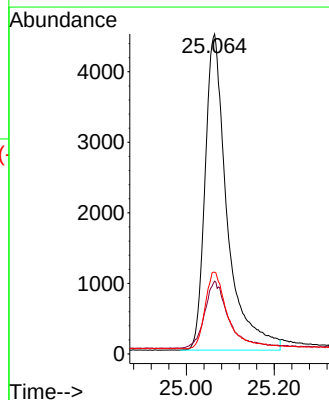
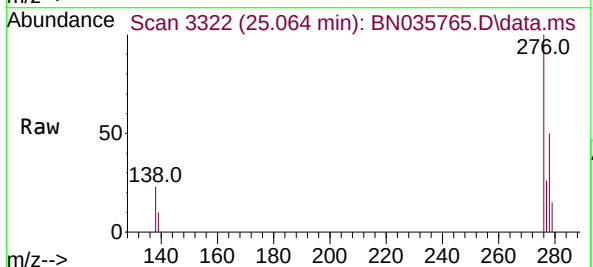
Manual Integrations
APPROVED

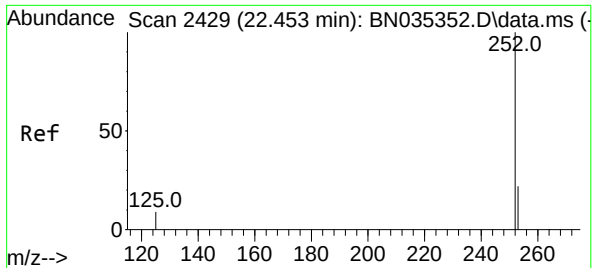
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.373 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:276 Resp: 15666
Ion Ratio Lower Upper
276 100
138 22.9 19.4 29.0
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.484 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

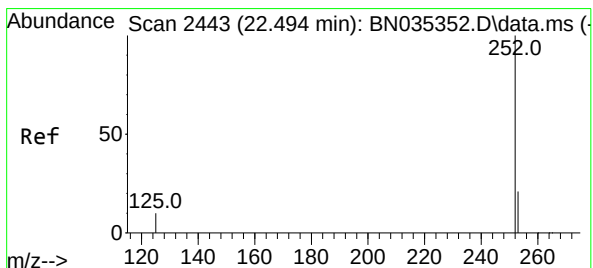
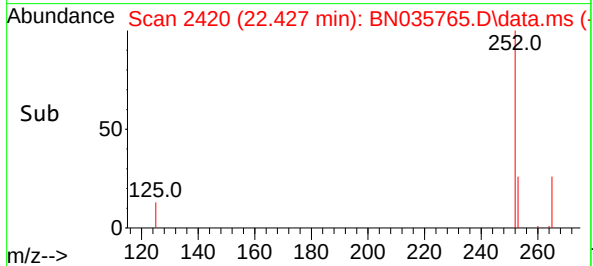
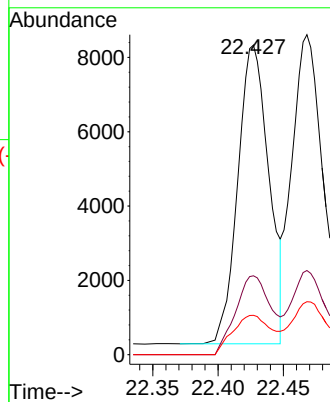
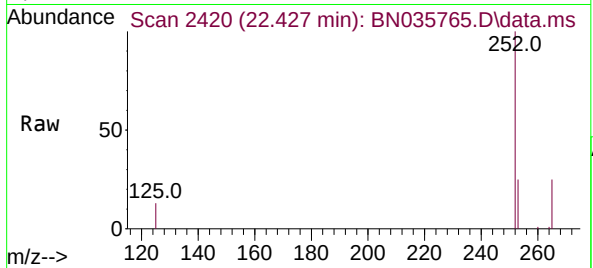
SSTDCCC0.4EC

Tgt Ion:	252	Resp:	1900
Ion Ratio	Lower	Upper	
252	100		
253	25.5	19.6	29.4
125	12.7	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: 0.388 ng m

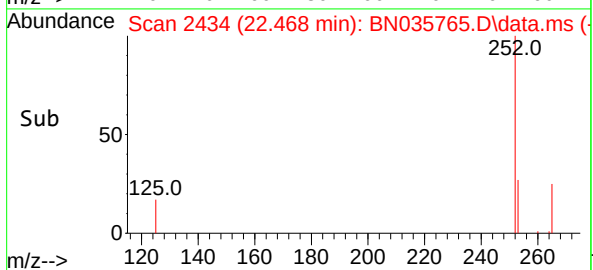
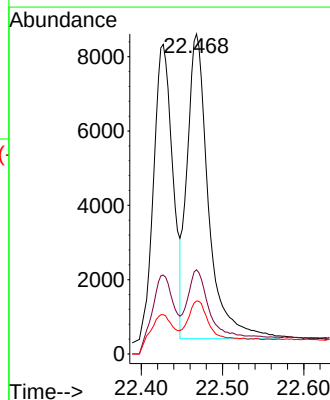
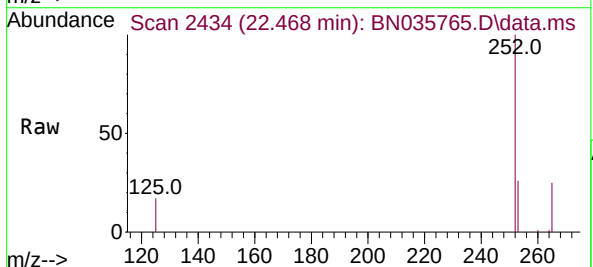
RT: 22.468 min Scan# 2434

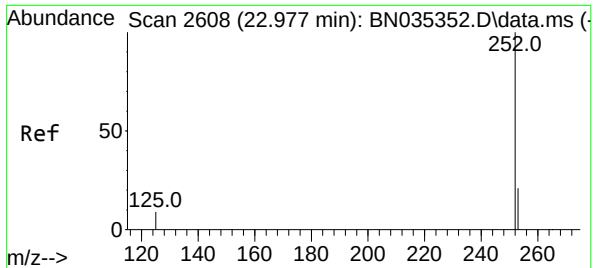
Delta R.T. -0.003 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

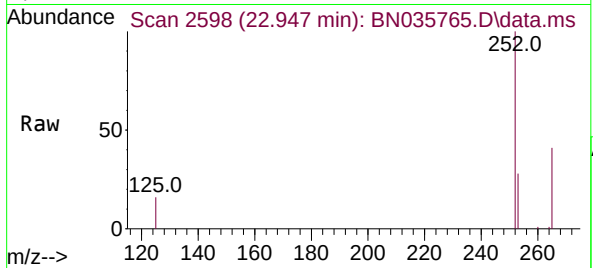
Tgt Ion:	252	Resp:	15020
Ion Ratio	Lower	Upper	
252	100		
253	26.3	19.5	29.3
125	16.6	10.2	15.4





#39
Benzo(a)pyrene
Concen: 0.363 ng
RT: 22.947 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

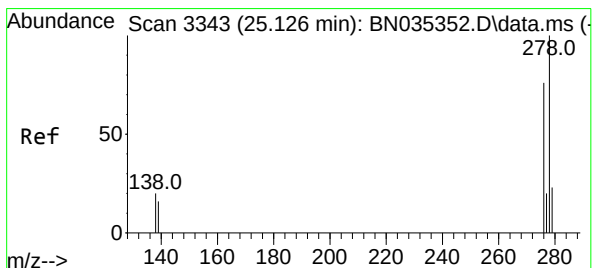
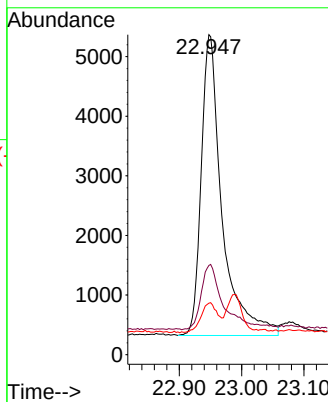
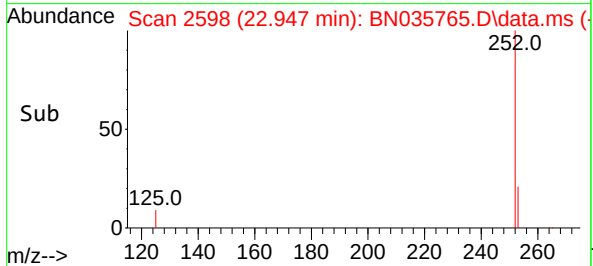
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:252 Resp: 1174
Ion Ratio Lower Upper
252 100
253 27.9 20.2 30.4
125 16.1 10.9 16.3

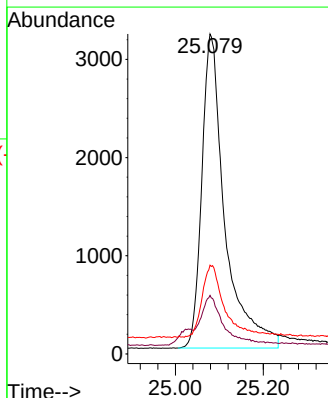
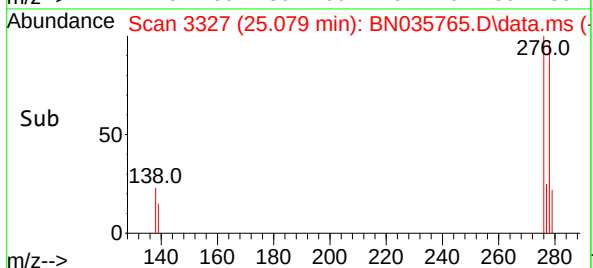
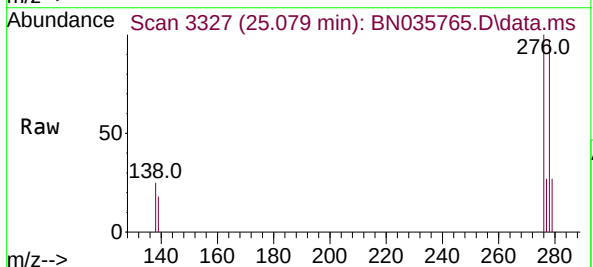
Manual Integrations
APPROVED

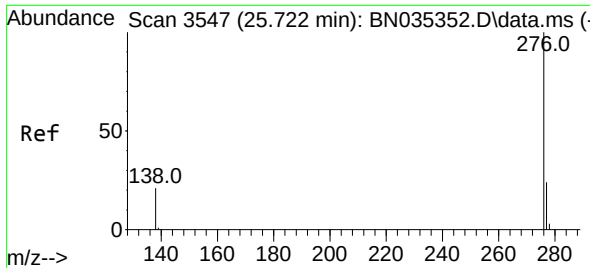
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.352 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:278 Resp: 11661
Ion Ratio Lower Upper
278 100
139 18.3 14.2 21.4
279 27.7 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.411 ng

RT: 25.675 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035765.D

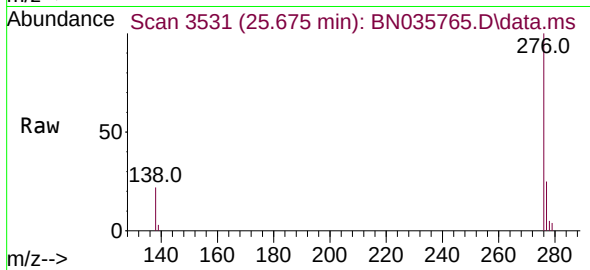
Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 14230

Ion Ratio Lower Upper

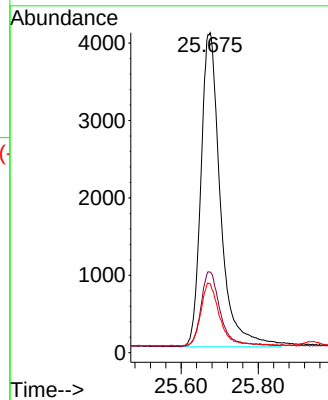
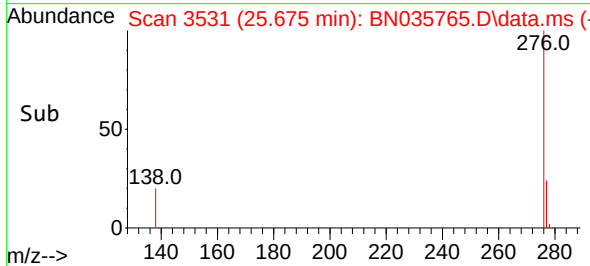
276 100

277 25.2 19.9 29.9

138 21.5 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 : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 05:39:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	173#	0.00
2	1,4-Dioxane	0.382	0.439	-14.9	202#	0.00
3	n-Nitrosodimethylamine	0.319	0.311	2.5	165#	0.00
4 S	2-Fluorophenol	1.001	0.960	4.1	163#	0.00
5 S	Phenol-d6	1.204	1.094	9.1	159#	-0.01
6	bis(2-Chloroethyl)ether	1.012	0.893	11.8	156#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	174#	-0.01
8 S	Nitrobenzene-d5	0.244	0.284	-16.4	210#	0.00
9	Naphthalene	1.055	0.999	5.3	166#	0.00
10	Hexachlorobutadiene	0.243	0.253	-4.1	178#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.578	7.7	163#	0.00
12	2-Methylnaphthalene	0.755	0.661	12.5	156#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	153#	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.215	24.3	129	0.00
15 S	2-Fluorobiphenyl	1.512	1.389	8.1	141	0.00
16	Acenaphthylene	1.680	1.506	10.4	145	-0.01
17	Acenaphthene	1.115	1.039	6.8	147	-0.01
18	Fluorene	1.596	1.364	14.5	135	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00
20	4,6-Dinitro-2-methylphenol	0.039	0.012	69.2#	42#	0.01
21	4-Bromophenyl-phenylether	0.234	0.205	12.4	118	-0.01
22	Hexachlorobenzene	0.275	0.298	-8.4	142	-0.01
23	Atrazine	0.167	0.154	7.8	130	0.00
24	Pentachlorophenol	0.120	0.096	20.0	130	0.00
25	Phenanthrene	1.099	1.002	8.8	122	-0.01
26	Anthracene	0.994	0.861	13.4	119	0.00
27 SURR	Fluoranthene-d10	1.134	0.989	12.8	119	0.00
28	Fluoranthene	1.481	1.248	15.7	114	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30	Pyrene	1.477	1.585	-7.3	111	0.00
31 S	Terphenyl-d14	0.789	0.863	-9.4	113	0.00
32	Benzo(a)anthracene	1.399	1.185	15.3	90	0.00
33	Chrysene	1.443	1.450	-0.5	104	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.579	-4.7	116	0.00
35 I	Perylene-d12	1.000	1.000	0.0	99	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.459	6.7	94	0.00
37	Benzo(b)fluoranthene	1.463	1.769	-20.9	133	0.00
38	Benzo(k)fluoranthene	1.440	1.399	2.8	99	0.00
39 C	Benzo(a)pyrene	1.205	1.093	9.3	95	0.00
40	Dibenzo(a,h)anthracene	1.234	1.086	12.0	90	0.00
41	Benzo(g,h,i)perylene	1.289	1.326	-2.9	105	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 05:39:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	173	0.00
2	1,4-Dioxane	0.400	0.459	-14.8	202	0.00
3	n-Nitrosodimethylamine	0.400	0.391	2.3	165	0.00
4 S	2-Fluorophenol	0.400	0.384	4.0	163	0.00
5 S	Phenol-d6	0.400	0.364	9.0	159	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.353	11.8	156	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	174	-0.01
8 S	Nitrobenzene-d5	0.400	0.464	-16.0	210	0.00
9	Naphthalene	0.400	0.379	5.3	166	0.00
10	Hexachlorobutadiene	0.400	0.415	-3.7	178	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.369	7.8	163	0.00
12	2-Methylnaphthalene	0.400	0.350	12.5	156	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	153	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.303	24.3	129	0.00
15 S	2-Fluorobiphenyl	0.400	0.367	8.3	141	0.00
16	Acenaphthylene	0.400	0.359	10.3	145	-0.01
17	Acenaphthene	0.400	0.373	6.8	147	-0.01
18	Fluorene	0.400	0.342	14.5	135	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	130	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.117	70.8#	42	0.01
21	4-Bromophenyl-phenylether	0.400	0.351	12.3	118	-0.01
22	Hexachlorobenzene	0.400	0.433	-8.2	142	-0.01
23	Atrazine	0.400	0.369	7.8	130	0.00
24	Pentachlorophenol	0.400	0.320	20.0	130	0.00
25	Phenanthrene	0.400	0.365	8.8	122	-0.01
26	Anthracene	0.400	0.347	13.3	119	0.00
27 SURR	Fluoranthene-d10	0.400	0.349	12.8	119	0.00
28	Fluoranthene	0.400	0.337	15.8	114	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30	Pyrene	0.400	0.429	-7.2	111	0.00
31 S	Terphenyl-d14	0.400	0.437	-9.2	113	0.00
32	Benzo(a)anthracene	0.400	0.339	15.3	90	0.00
33	Chrysene	0.400	0.402	-0.5	104	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.419	-4.7	116	0.00
35 I	Perylene-d12	0.400	0.400	0.0	99	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.373	6.8	94	0.00
37	Benzo(b)fluoranthene	0.400	0.484	-21.0	133	0.00
38	Benzo(k)fluoranthene	0.400	0.388	3.0	99	0.00
39 C	Benzo(a)pyrene	0.400	0.363	9.3	95	0.00
40	Dibenzo(a,h)anthracene	0.400	0.352	12.0	90	0.00
41	Benzo(g,h,i)perylene	0.400	0.411	-2.7	105	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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 10:22

Lab File ID: BN035776.D Init. Calib. Date(s): 11/27/2024 11/27/2024

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

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.601		-4.0	20.0
Fluoranthene-d10	1.134	1.037		-8.6	20.0
2-Fluorophenol	1.001	1.009		0.7	20.0
Phenol-d6	1.204	1.111		-7.7	20.0
Nitrobenzene-d5	0.244	0.284		16.4	20.0
2-Fluorobiphenyl	1.512	1.601		5.9	20.0
2,4,6-Tribromophenol	0.284	0.205		-27.8	20.0
Terphenyl-d14	0.789	0.943		19.5	20.0
1,4-Dioxane	0.382	0.429		12.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035776.D
 Acq On : 23 Dec 2024 10:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 23 11:23:28 2024

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3884	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	10099	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	5893	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8770	0.400	ng	0.00
35) Perylene-d12	23.026	264	8918	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	3917	0.403	ng	0.00
5) Phenol-d6	6.477	99	4314	0.369	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2872m	0.466	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6074	0.384	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	1206	0.288	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	9436	0.424	ng	-0.01
27) Fluoranthene-d10	18.752	212	11979	0.366	ng	0.00
31) Terphenyl-d14	19.384	244	8267	0.478	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.981	88	1665	0.448	ng	99
3) n-Nitrosodimethylamine	3.278	42	1278	0.413	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	3946	0.402	ng	98
9) Naphthalene	10.052	128	10927	0.410	ng	99
10) Hexachlorobutadiene	10.351	225	2685	0.437	ng	# 100
12) 2-Methylnaphthalene	11.686	142	6976	0.366	ng	98
16) Acenaphthylene	13.636	152	9517	0.385	ng	99
17) Acenaphthene	13.989	154	6826	0.415	ng	97
18) Fluorene	14.993	166	8480	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	178	0.157	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2687	0.398	ng	# 94
22) Hexachlorobenzene	16.003	284	3943	0.497	ng	95
23) Atrazine	16.202	200	1724	0.359	ng	95
24) Pentachlorophenol	16.363	266	1350	0.391	ng	89
25) Phenanthrene	16.735	178	12569	0.396	ng	100
26) Anthracene	16.835	178	10686	0.372	ng	99
28) Fluoranthene	18.780	202	15101	0.353	ng	99
30) Pyrene	19.147	202	15291	0.472	ng	99
32) Benzo(a)anthracene	20.929	228	10904	0.355	ng	99
33) Chrysene	20.982	228	14126	0.447	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4992	0.412	ng	99
36) Indeno(1,2,3-cd)pyrene	25.052	276	12530	0.359	ng	98
37) Benzo(b)fluoranthene	22.418	252	21074	0.646	ng	96
38) Benzo(k)fluoranthene	22.459	252	14978m	0.466	ng	
39) Benzo(a)pyrene	22.942	252	10518	0.391	ng	# 91
40) Dibenzo(a,h)anthracene	25.070	278	9258	0.337	ng	94
41) Benzo(g,h,i)perylene	25.658	276	11833	0.412	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035776.D
 Acq On : 23 Dec 2024 10:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

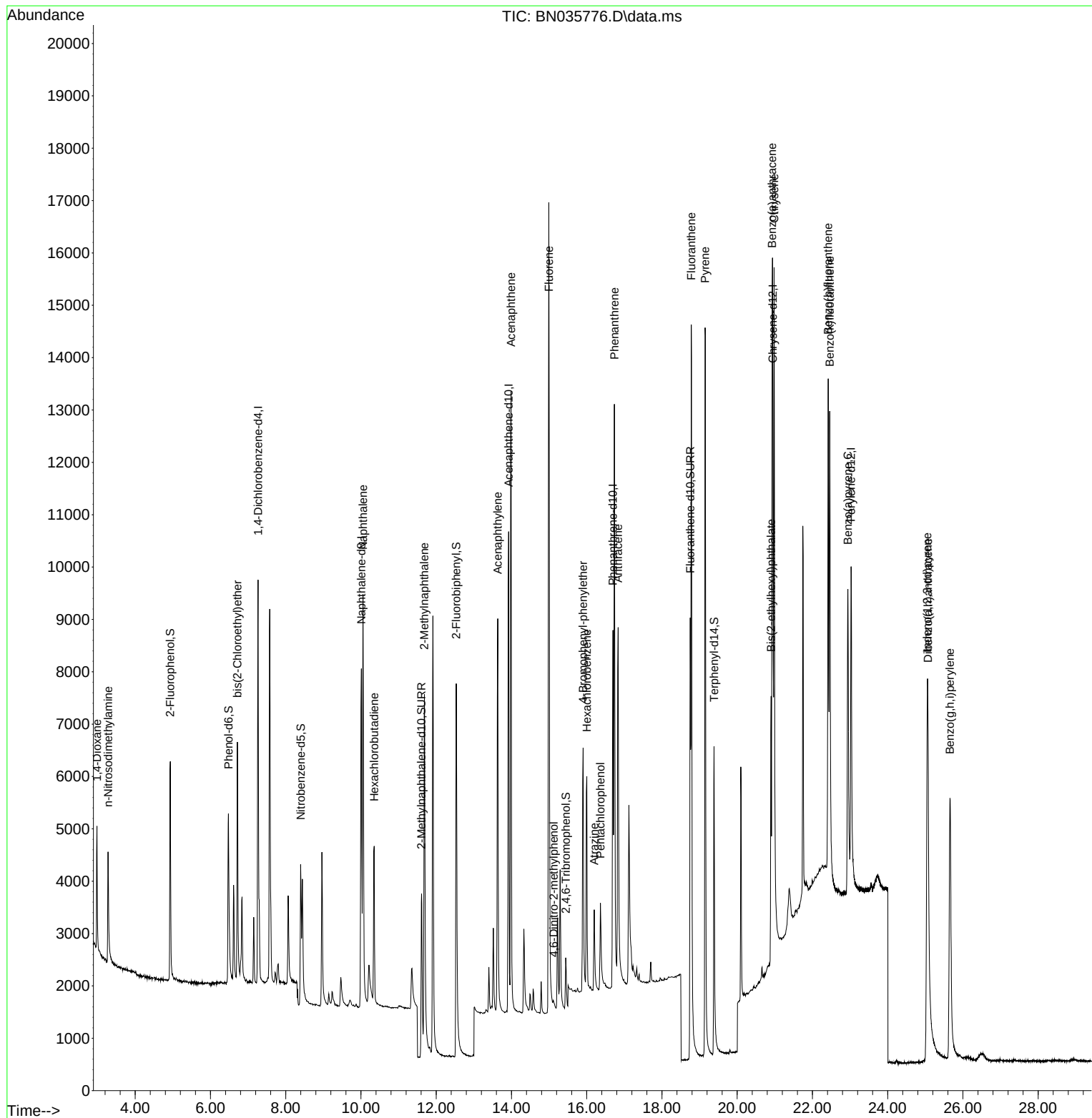
Manual Integrations

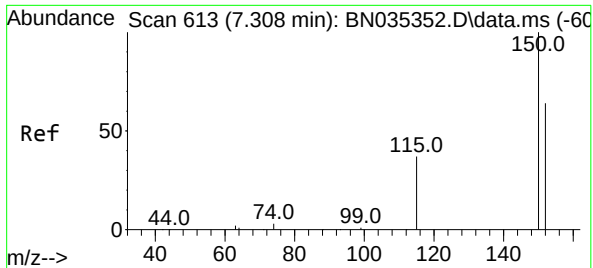
APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024

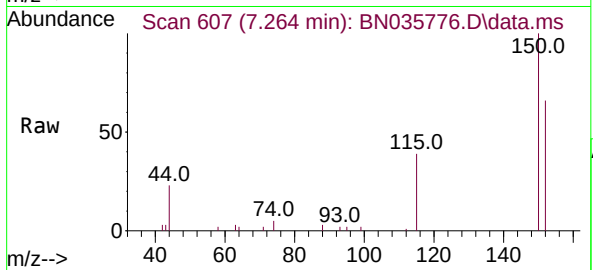
Quant Time: Dec 23 11:23:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

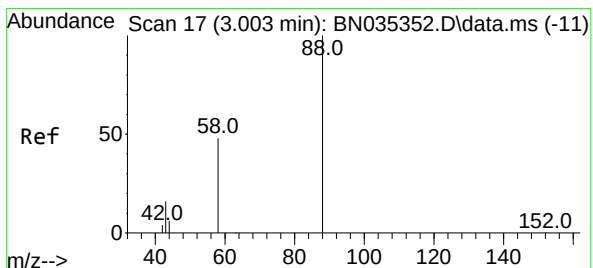
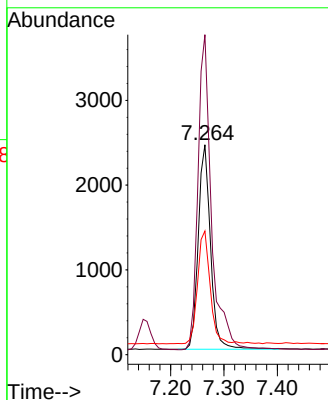
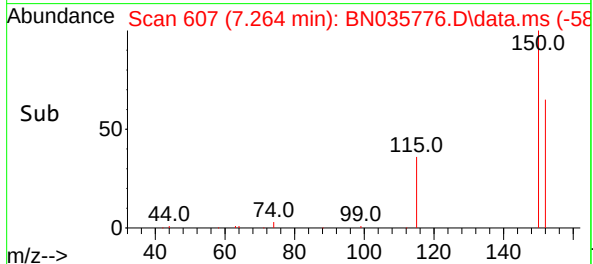
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 3884
Ion Ratio Lower Upper
152 100
150 152.4 124.0 186.0
115 58.9 49.6 74.4

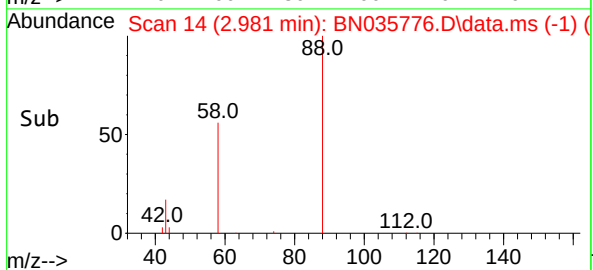
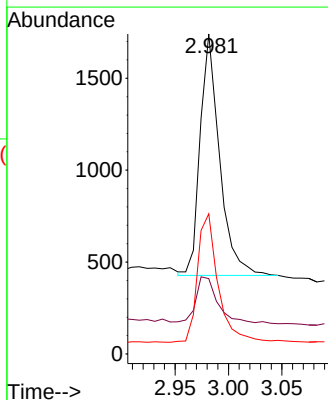
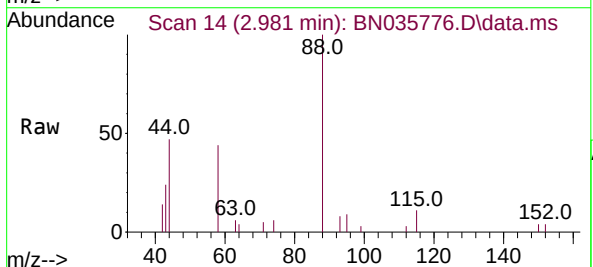
Manual Integrations
APPROVED

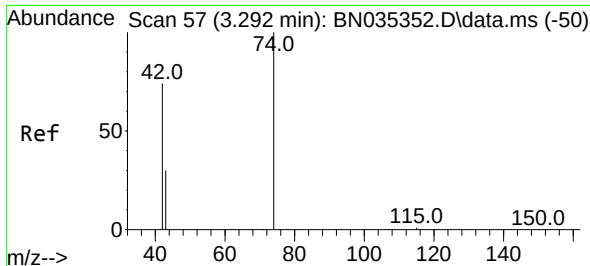
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.448 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 88 Resp: 1665
Ion Ratio Lower Upper
88 100
43 22.6 17.2 25.8
58 55.9 44.5 66.7





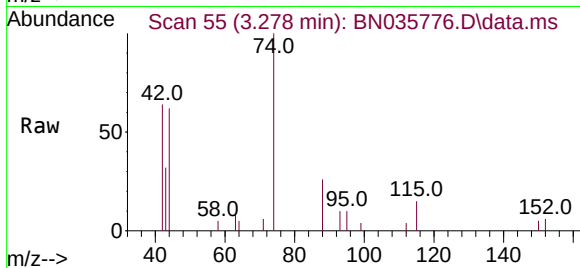
#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.278 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

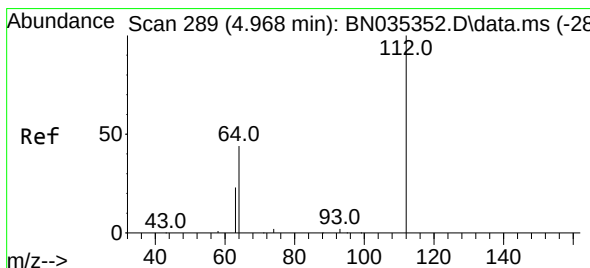
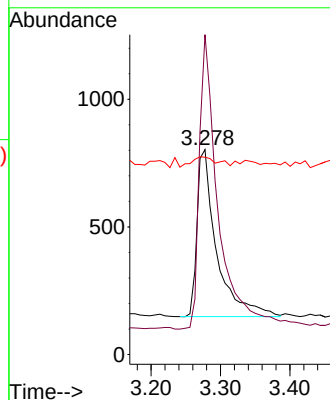
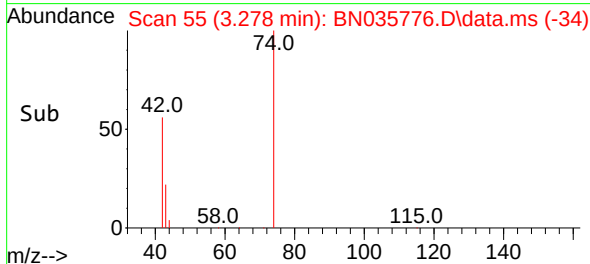


Tgt Ion: 42 Resp: 1278
Ion Ratio Lower Upper
42 100
74 172.3 124.9 187.3
44 6.3 2.2 3.4

Manual Integrations
APPROVED

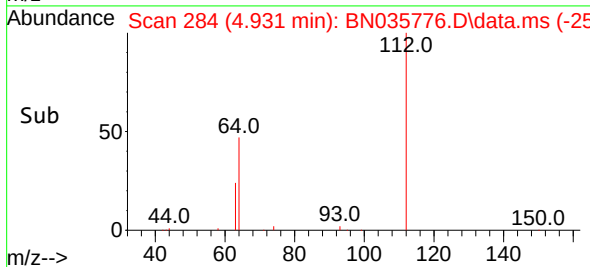
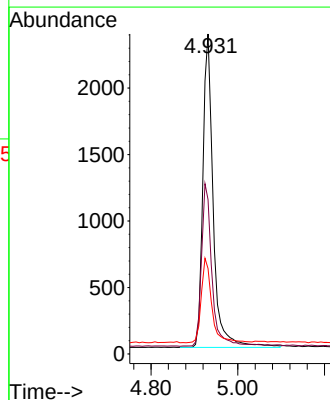
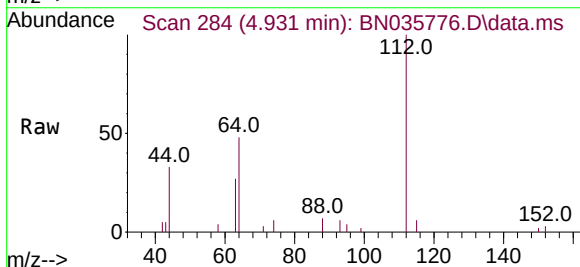
Reviewed By :Yogesh Patel 12/24/2024

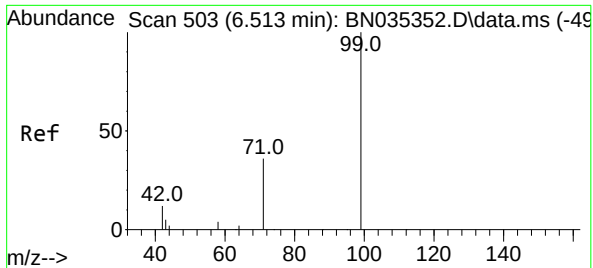
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.403 ng
RT: 4.931 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:112 Resp: 3917
Ion Ratio Lower Upper
112 100
64 52.3 39.8 59.8
63 27.2 21.0 31.6





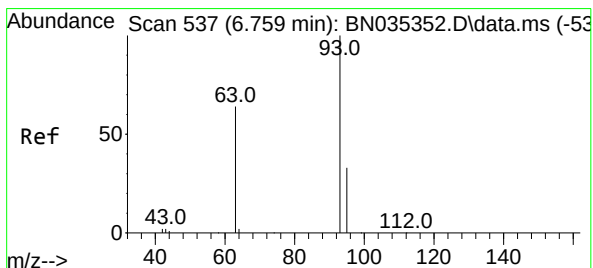
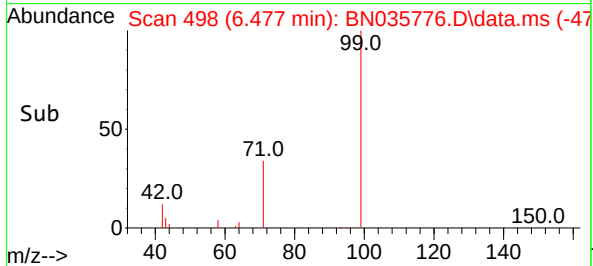
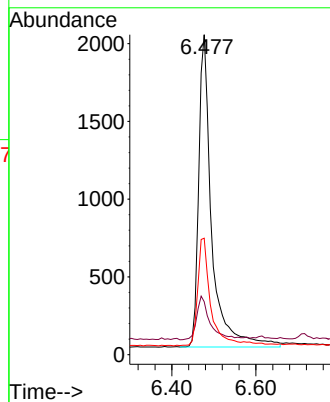
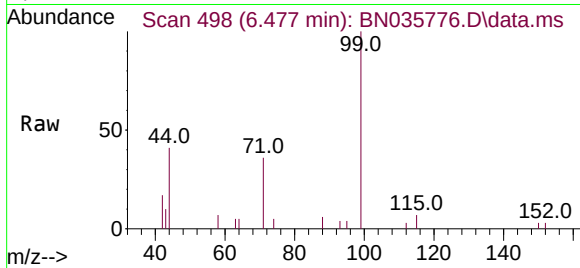
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 4314
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 33.7 29.3 43.9

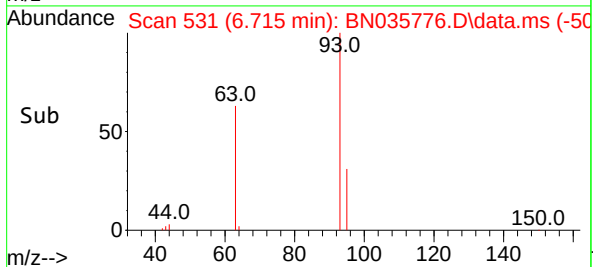
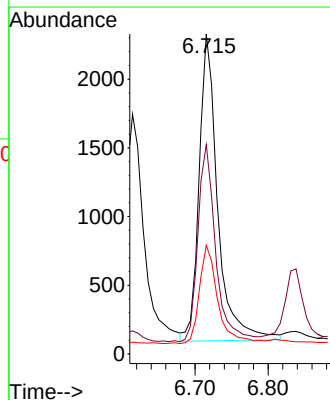
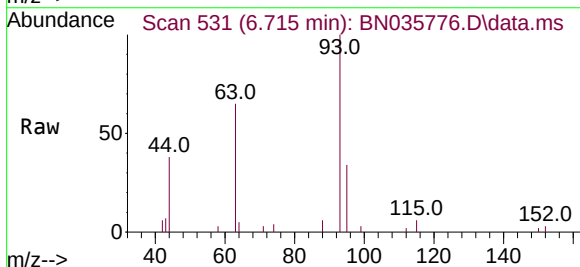
Manual Integrations
APPROVED

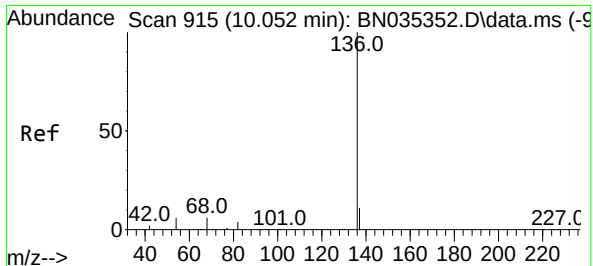
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 93 Resp: 3946
Ion Ratio Lower Upper
93 100
63 61.5 50.4 75.6
95 31.7 25.7 38.5





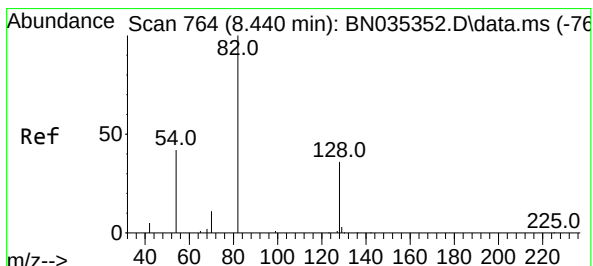
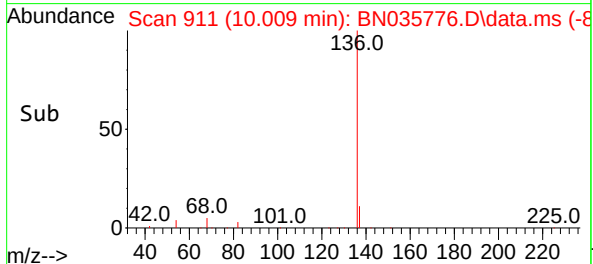
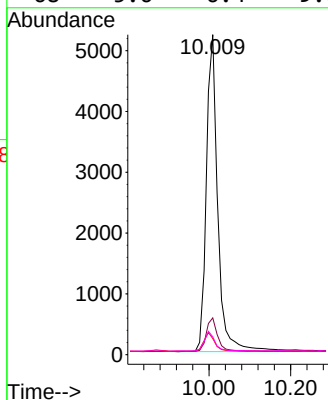
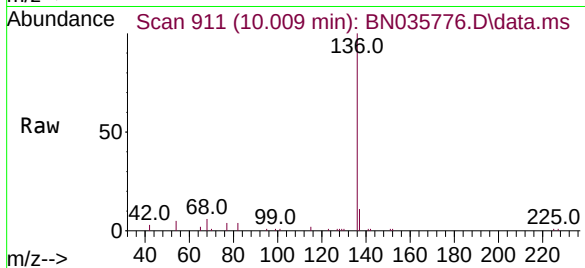
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDC0.4

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.5	10.2	15.2
54	5.0	6.1	9.1
68	5.6	6.4	9.6

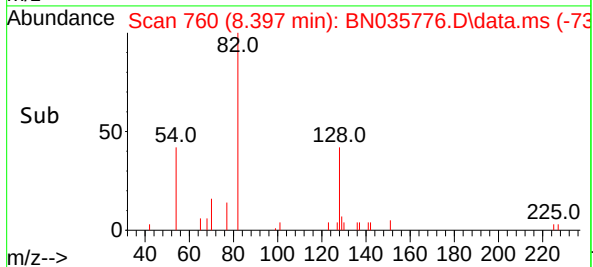
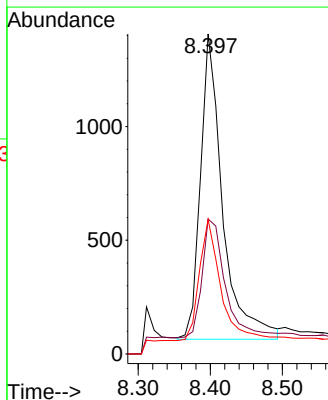
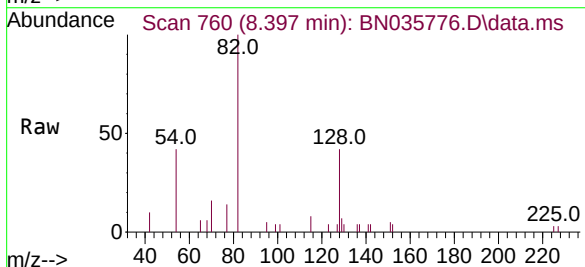
Manual Integrations
APPROVED

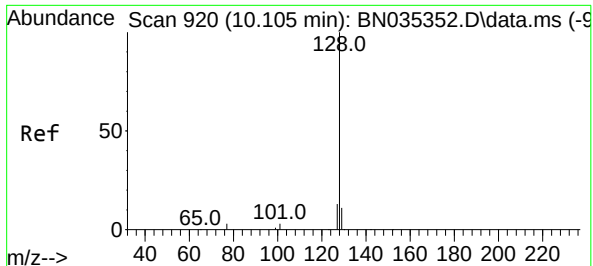
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.466 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.4	50.0
54	42.1	36.7	55.1





#9

Naphthalene

Concen: 0.410 ng

RT: 10.052 min Scan# 915

Delta R.T. -0.011 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

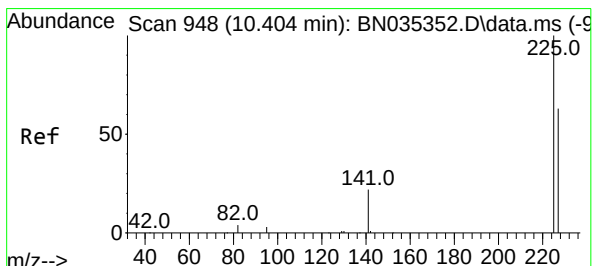
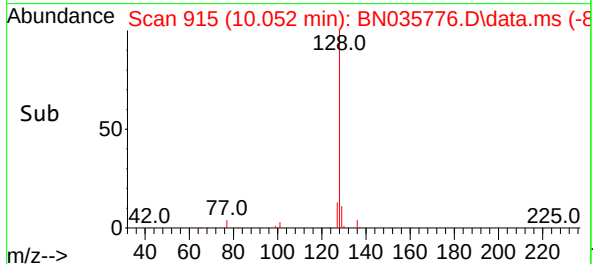
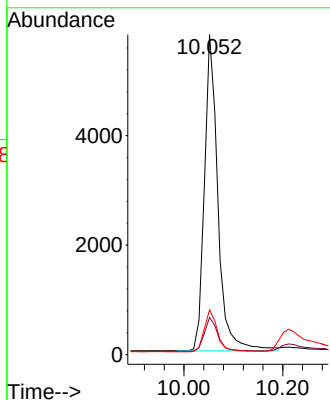
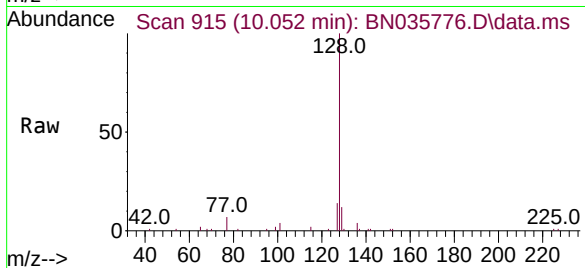
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	128	Resp:	1092
Ion Ratio	Lower	Upper	
128	100		
129	11.7	9.8	14.6
127	14.0	11.4	17.2

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



#10

Hexachlorobutadiene

Concen: 0.437 ng

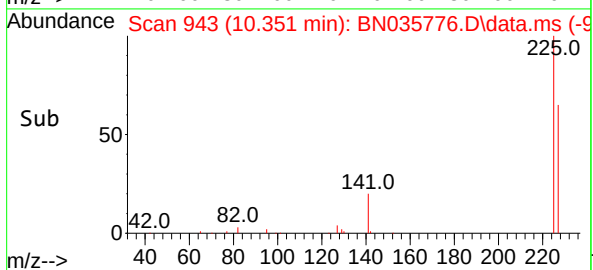
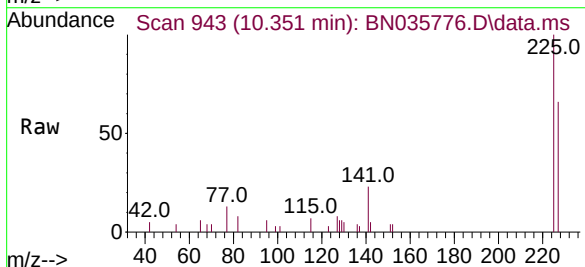
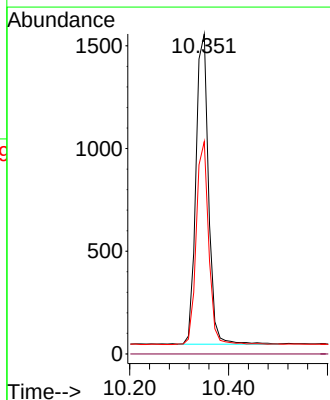
RT: 10.351 min Scan# 943

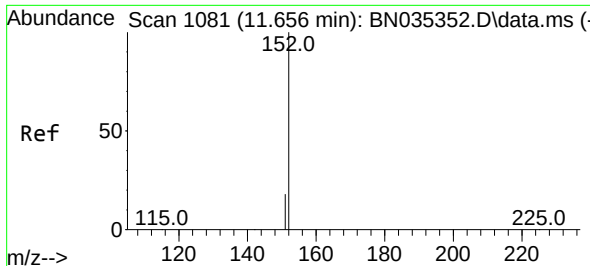
Delta R.T. -0.011 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

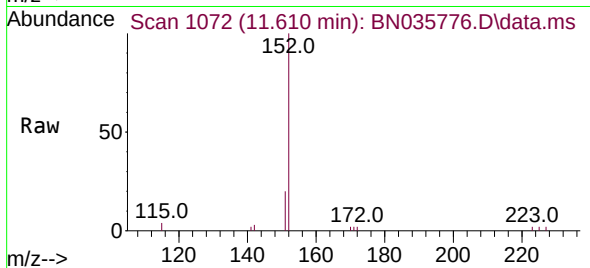
Tgt Ion:	225	Resp:	2685
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.4	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

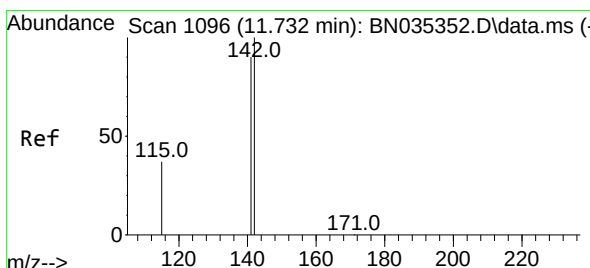
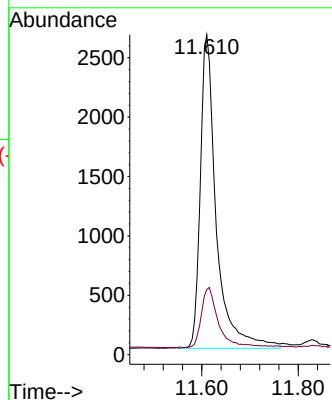
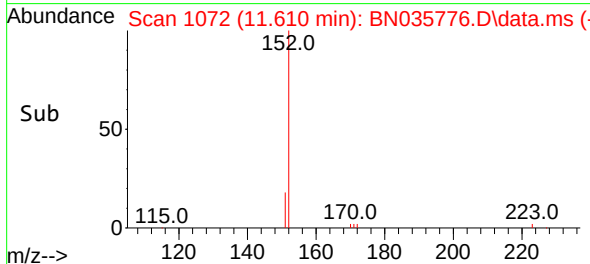
Instrument :
BNA_N
ClientSampleId :
SSTDC0.4



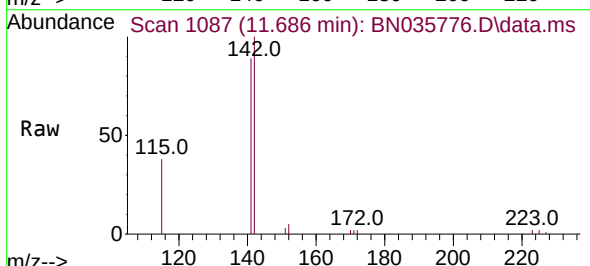
Tgt Ion:152 Resp: 6074
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0

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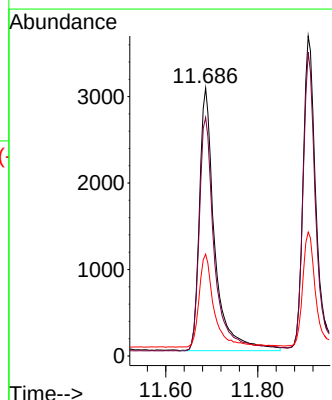
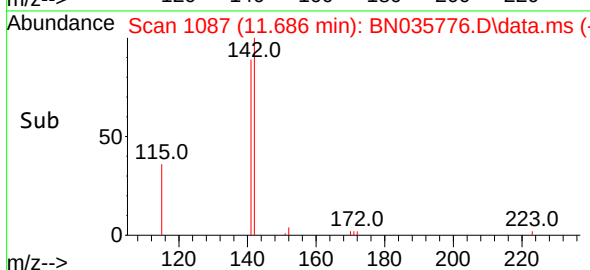
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

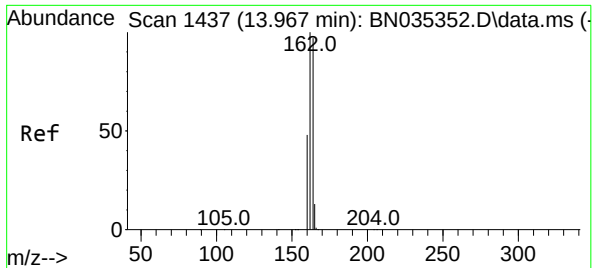


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22



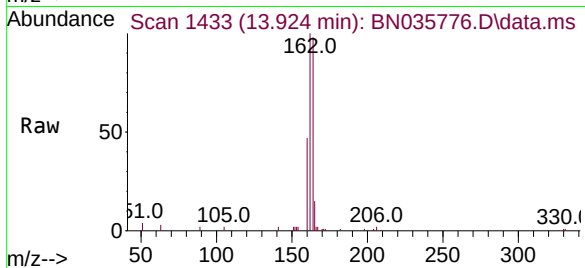
Tgt Ion:142 Resp: 6976
Ion Ratio Lower Upper
142 100
141 89.0 72.2 108.4
115 38.0 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

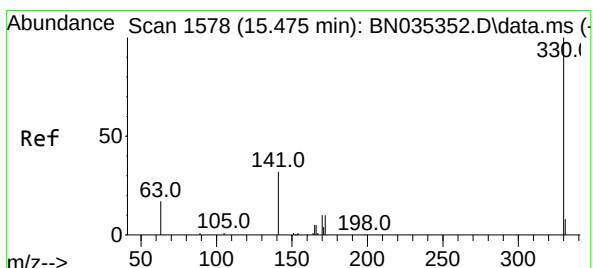
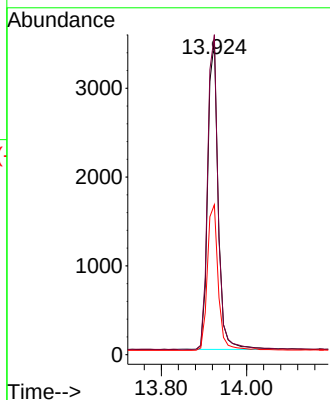
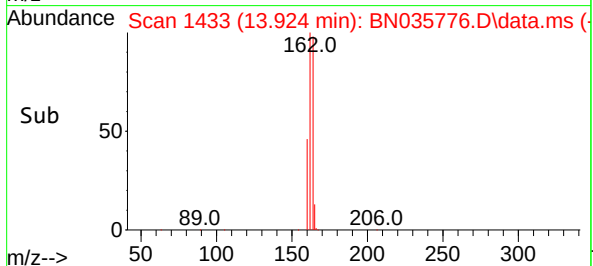
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



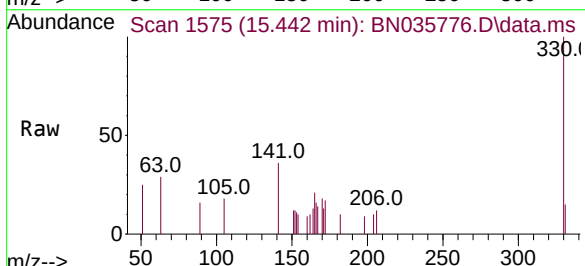
Tgt Ion:164 Resp: 589
Ion Ratio Lower Upper
164 100
162 101.9 82.2 123.2
160 47.7 40.1 60.1

Manual Integrations
APPROVED

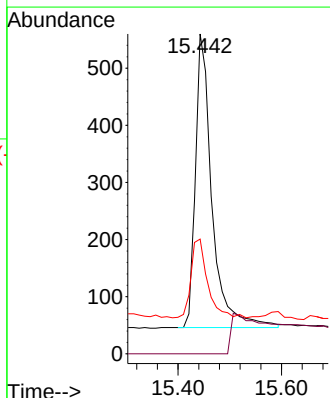
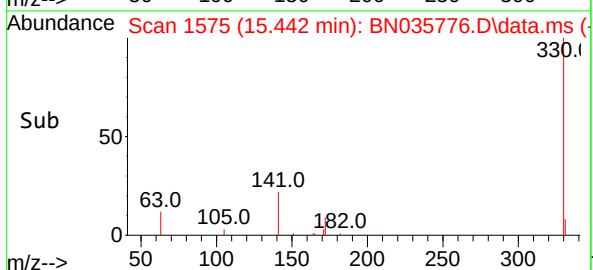
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

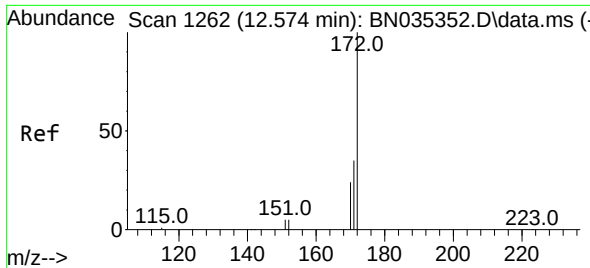


#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22



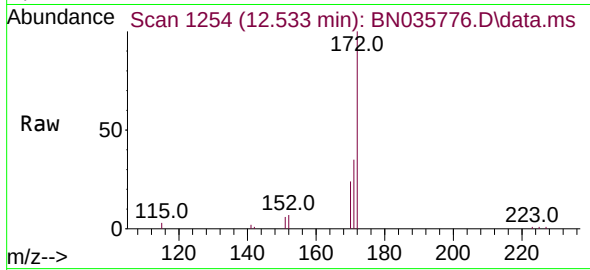
Tgt Ion:330 Resp: 1206
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 26.3 26.6 40.0#





#15
2-Fluorobiphenyl
Concen: 0.424 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

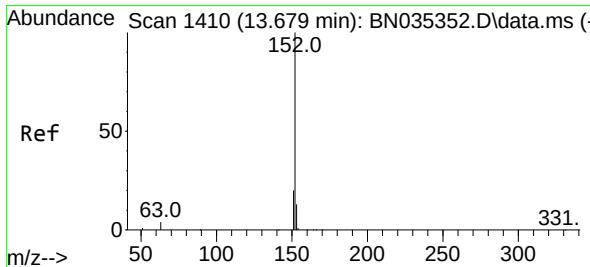
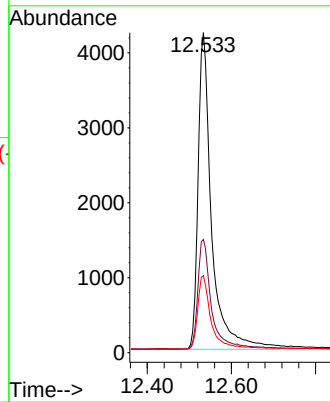
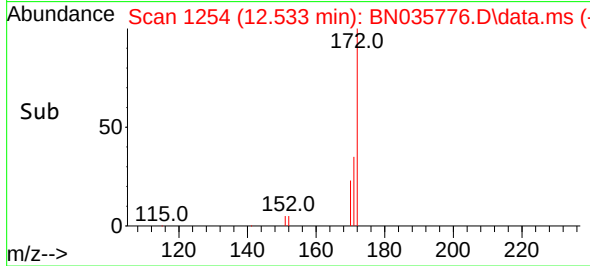
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 9430
Ion Ratio Lower Upper
172 100
171 35.4 29.0 43.4
170 24.1 19.8 29.8

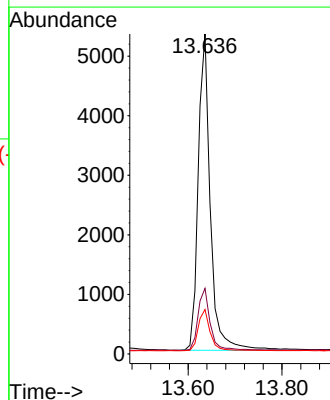
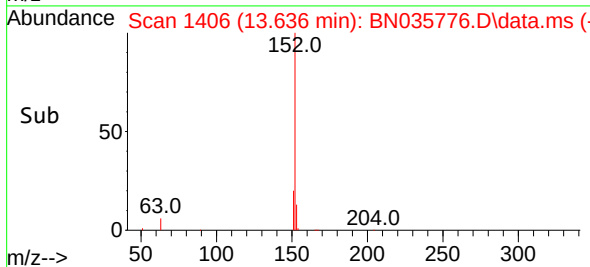
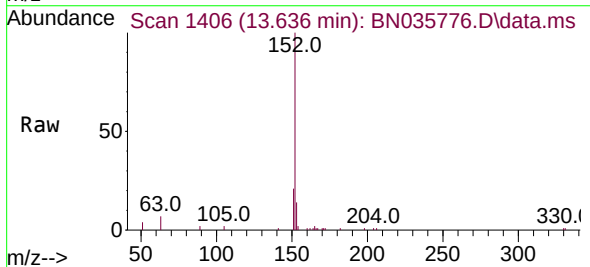
Manual Integrations
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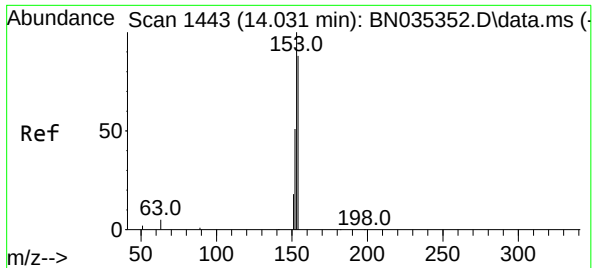
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

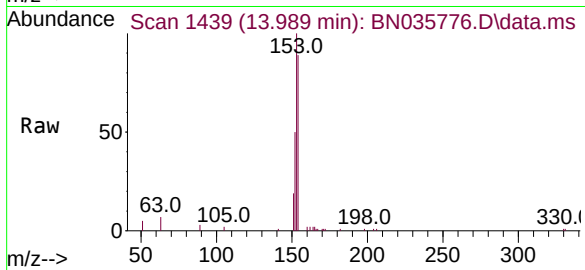
Tgt Ion:152 Resp: 9517
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.1 10.4 15.6





#17
Acenaphthene
Concen: 0.415 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

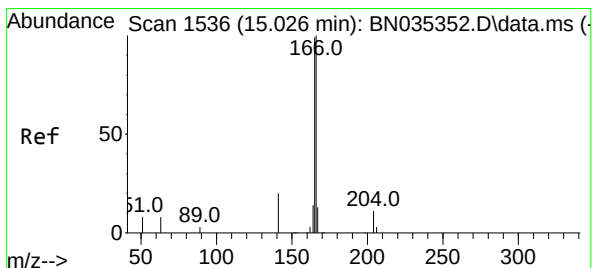
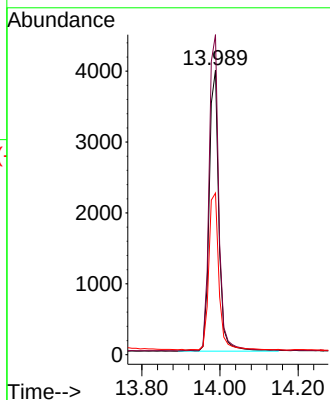
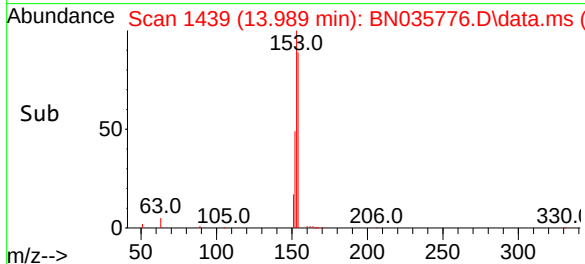
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 6820
Ion Ratio Lower Upper
154 100
153 113.5 92.6 139.0
152 58.5 49.0 73.6

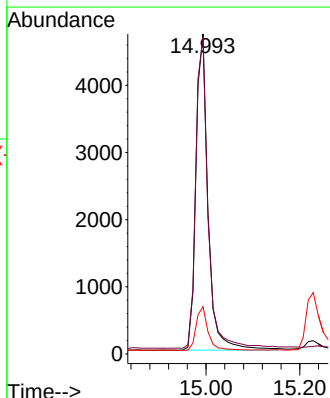
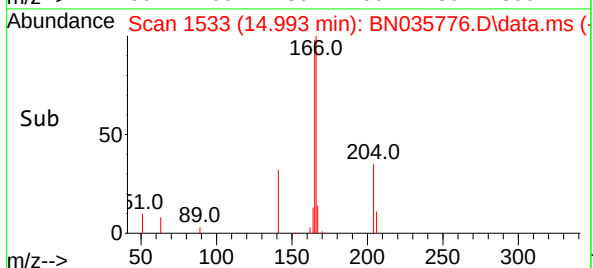
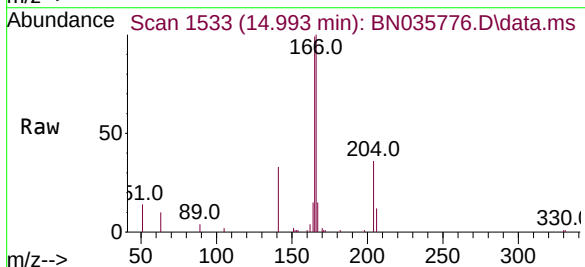
Manual Integrations
APPROVED

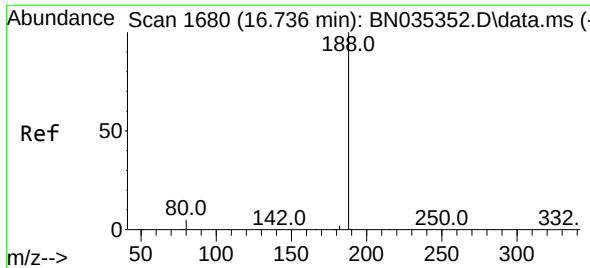
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.361 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:166 Resp: 8480
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 13.6 10.8 16.2





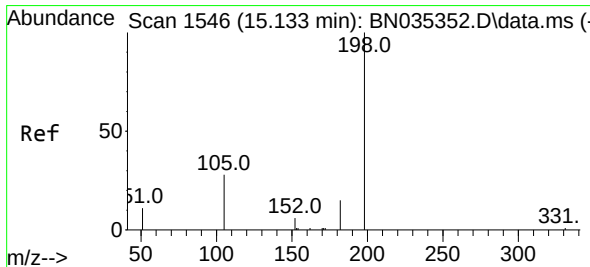
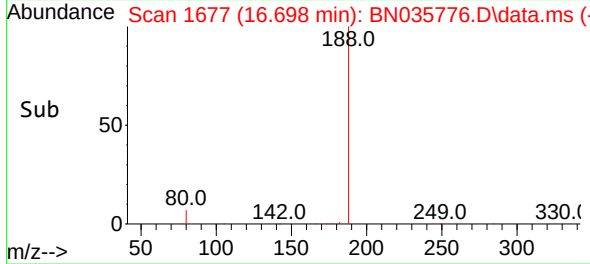
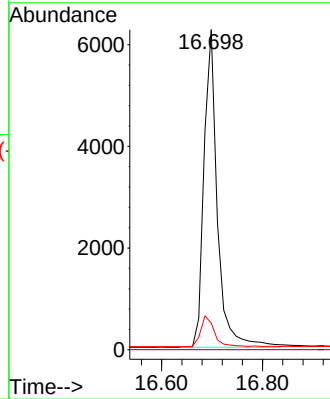
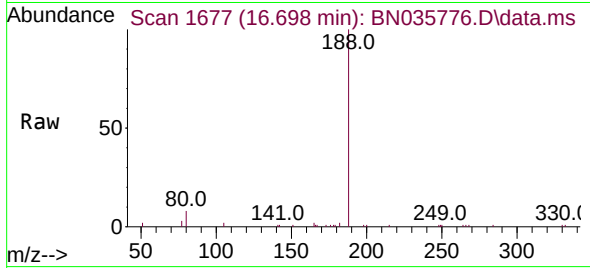
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 1154
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.4 4.6 6.8

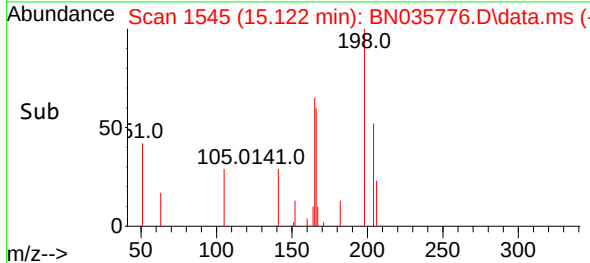
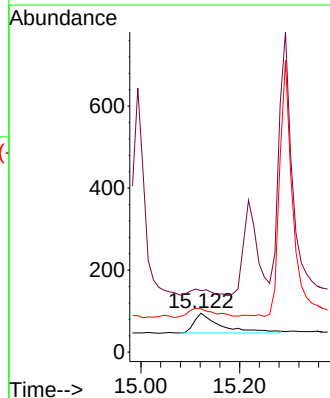
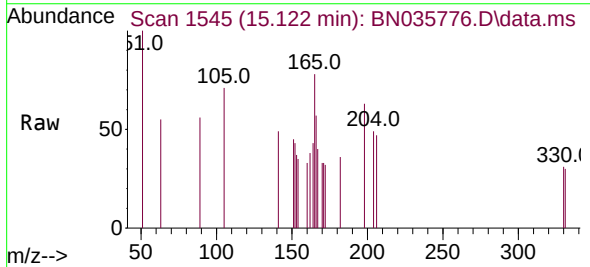
Manual Integrations
APPROVED

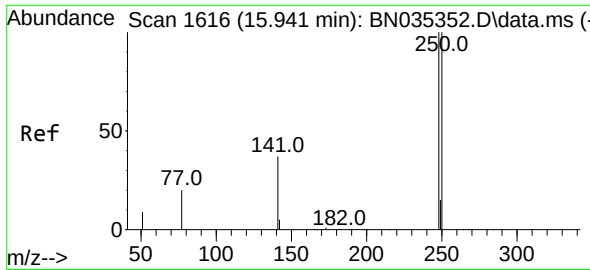
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.157 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:198 Resp: 178
Ion Ratio Lower Upper
198 100
51 157.9 46.5 69.7#
105 111.6 45.3 67.9#





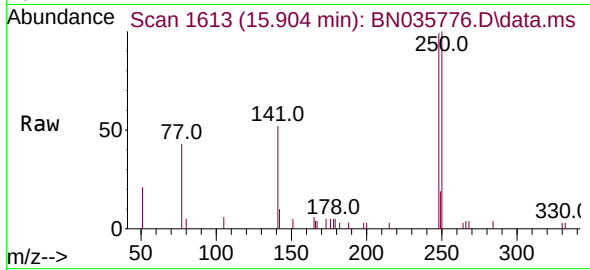
#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



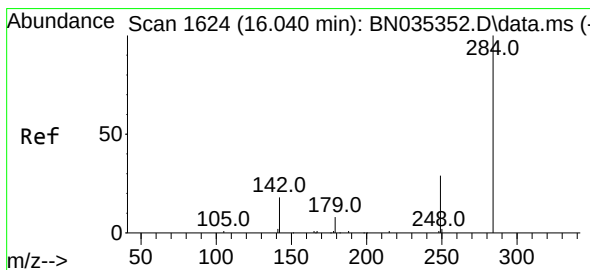
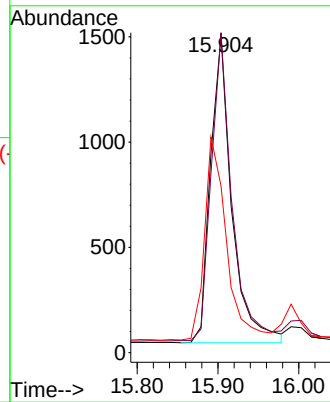
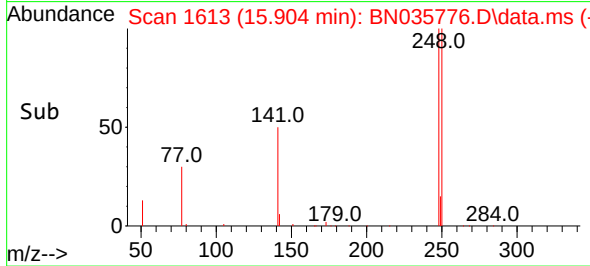
Tgt Ion:248 Resp: 268
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 52.5 31.5 47.3

Manual Integrations

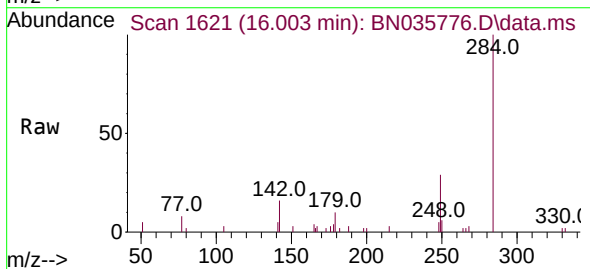
APPROVED

Reviewed By :Yogesh Patel 12/24/2024

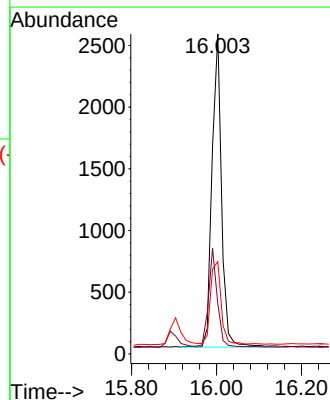
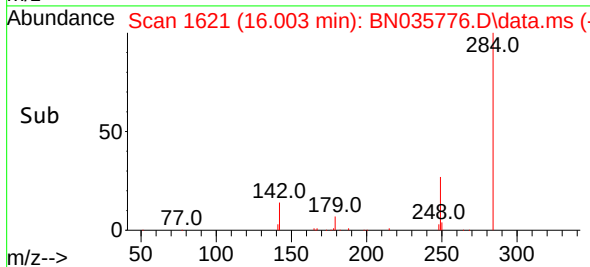
Supervised By :mohammad ahmed 12/26/2024

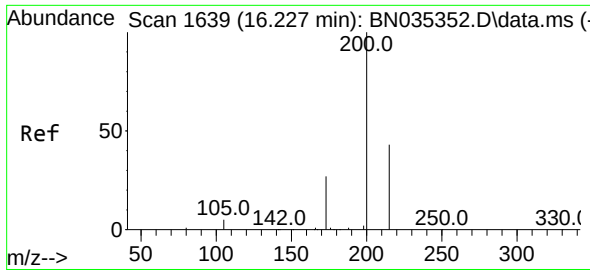


#22
Hexachlorobenzene
Concen: 0.497 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22



Tgt Ion:284 Resp: 3943
Ion Ratio Lower Upper
284 100
142 29.0 26.7 40.1
249 29.3 24.6 36.8





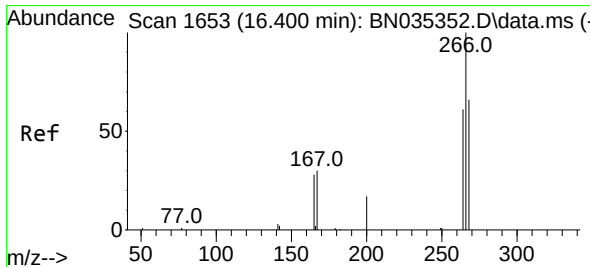
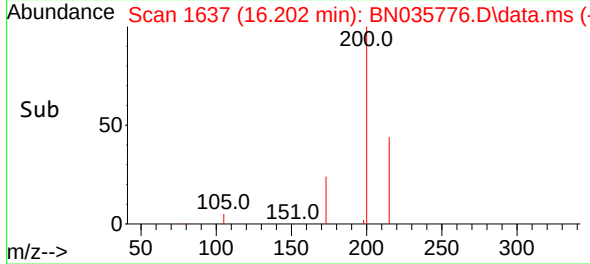
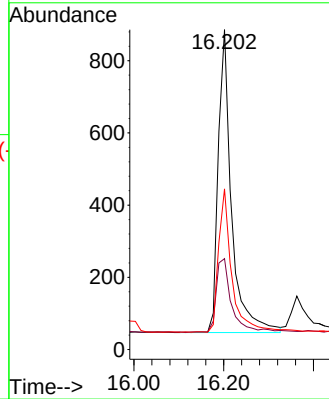
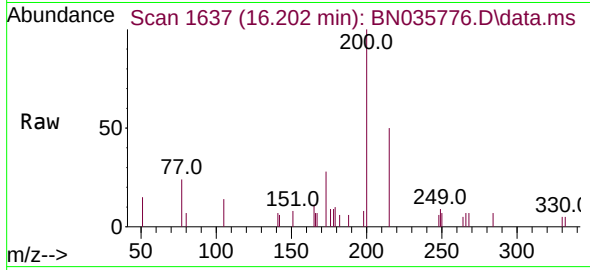
#23
Atrazine
Concen: 0.359 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1724
Ion Ratio Lower Upper
200 100
173 28.4 24.1 36.1
215 50.2 36.9 55.3

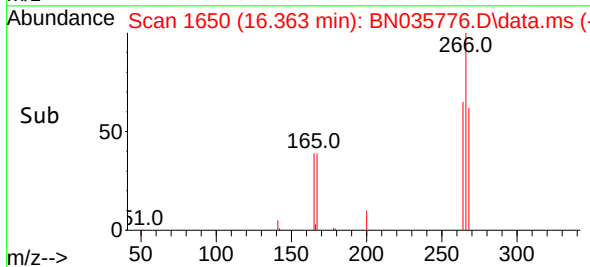
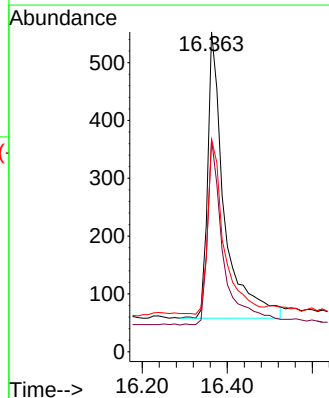
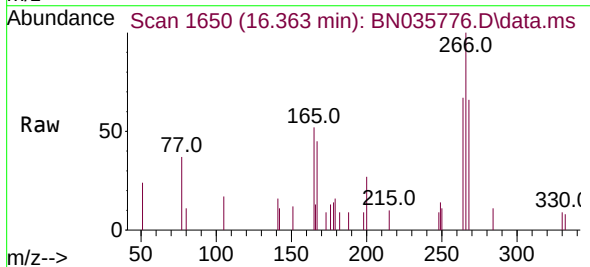
Manual Integrations
APPROVED

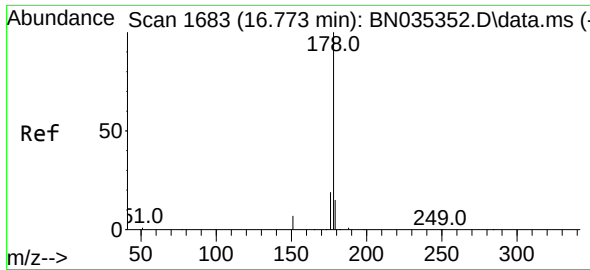
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.391 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:266 Resp: 1350
Ion Ratio Lower Upper
266 100
264 63.2 42.3 63.5
268 59.1 43.3 64.9





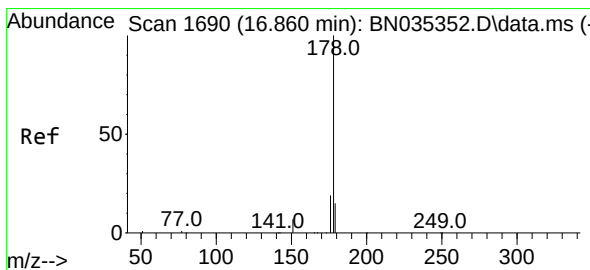
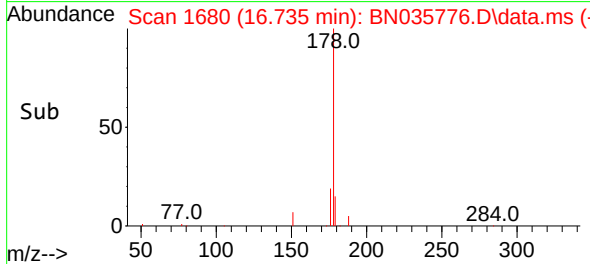
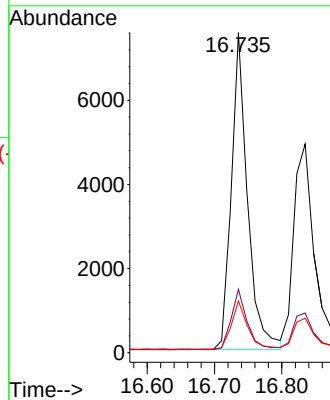
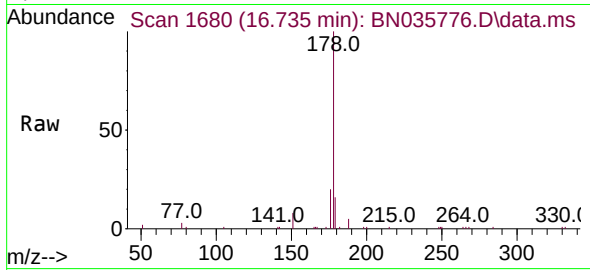
#25
Phenanthrene
Concen: 0.396 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 12569
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.5 12.3 18.5

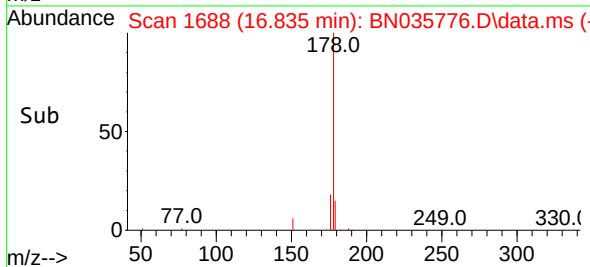
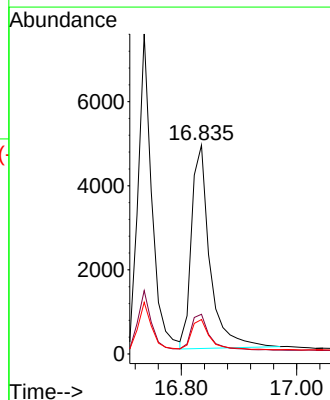
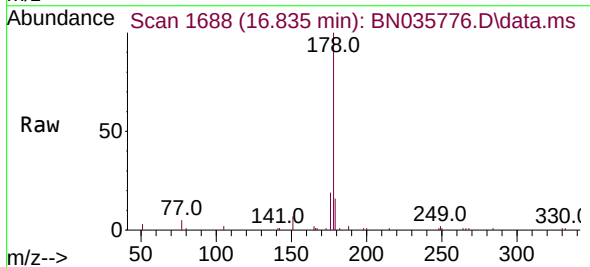
Manual Integrations
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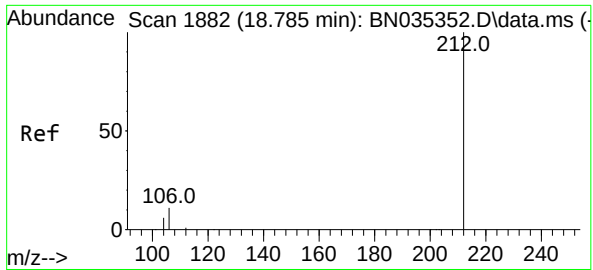
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.372 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

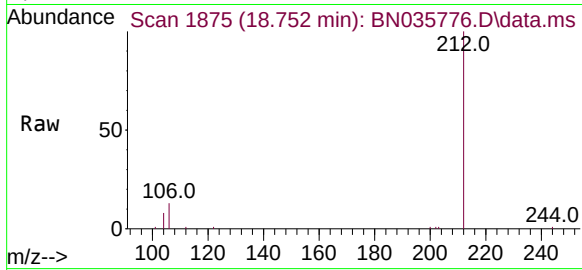
Tgt Ion:178 Resp: 10686
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.3 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

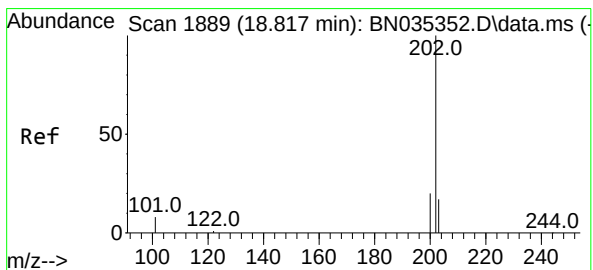
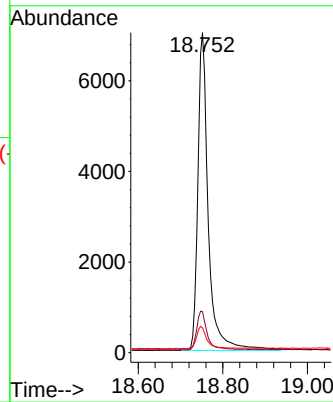
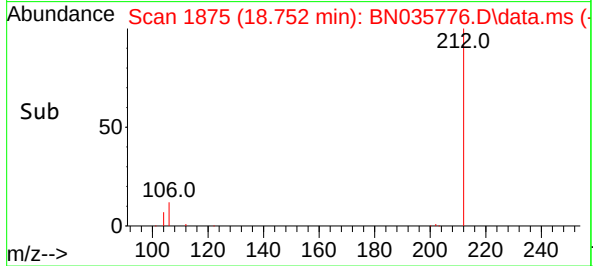
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



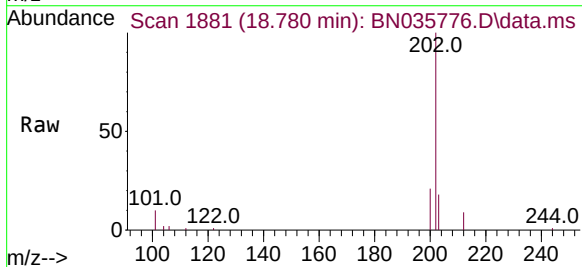
Tgt Ion:212 Resp: 11979
Ion Ratio Lower Upper
212 100
106 12.1 9.2 13.8
104 6.9 5.3 7.9

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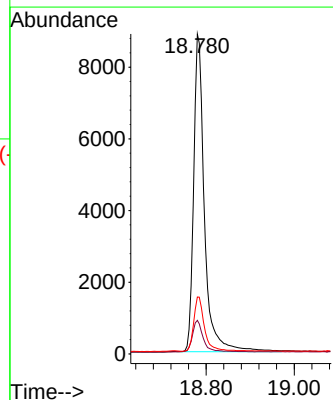
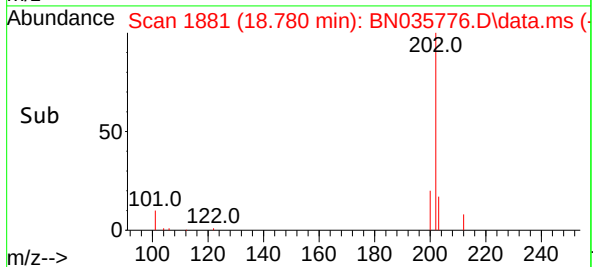
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

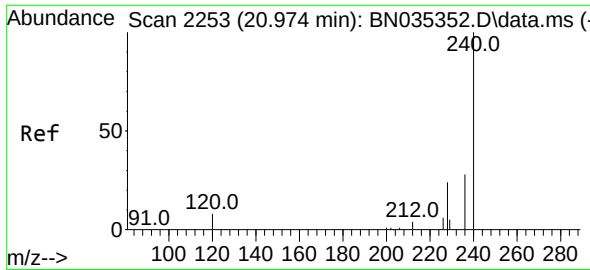


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22



Tgt Ion:202 Resp: 15101
Ion Ratio Lower Upper
202 100
101 10.1 7.4 11.0
203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:240 Resp: 8770

Ion Ratio Lower Upper

240 100

120 11.5 7.9 11.9

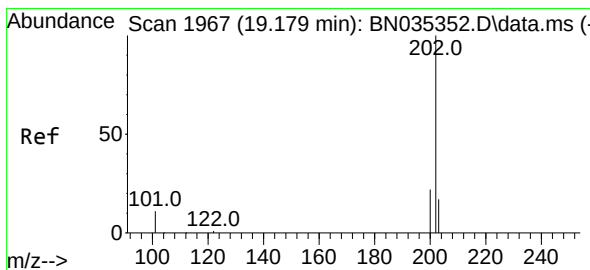
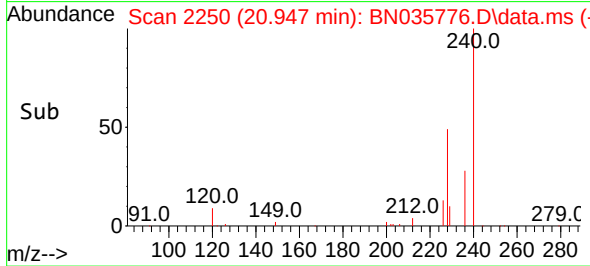
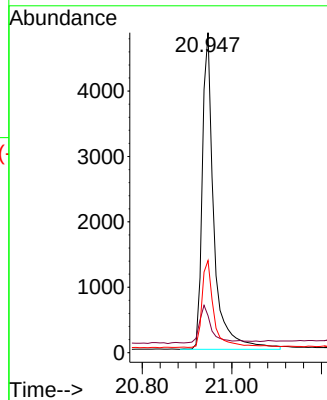
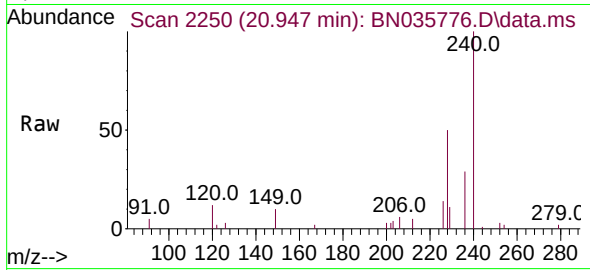
236 28.8 22.9 34.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.472 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

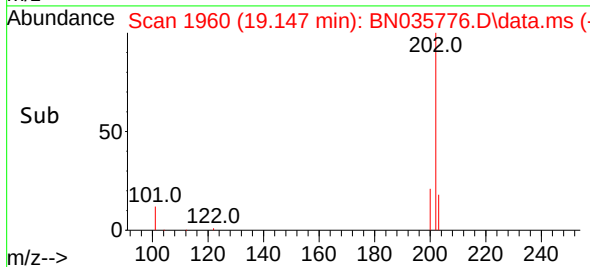
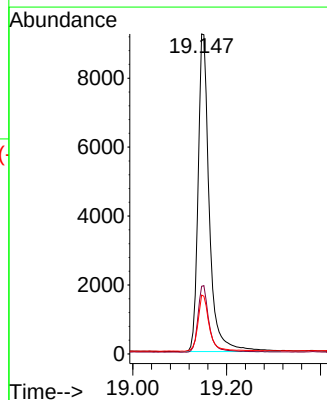
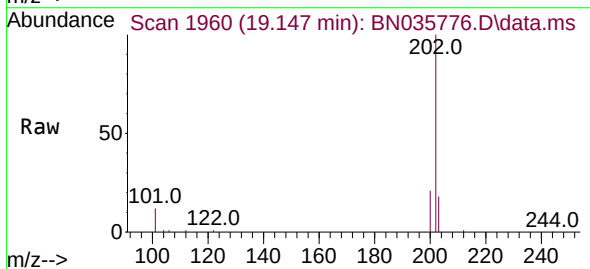
Tgt Ion:202 Resp: 15291

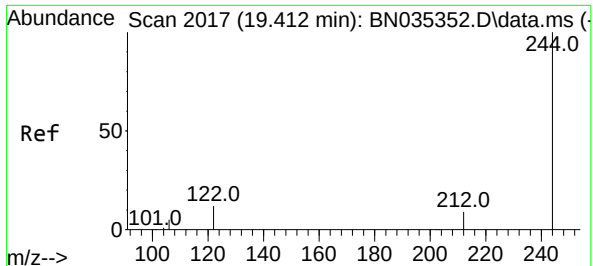
Ion Ratio Lower Upper

202 100

200 20.7 17.0 25.4

203 17.9 14.3 21.5





#31
Terphenyl-d14
Concen: 0.478 ng
RT: 19.384 min Scan# 2011
Delta R.T. -0.005 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

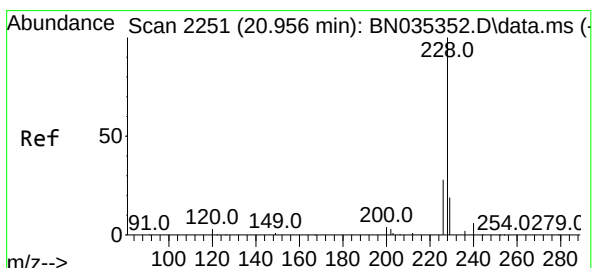
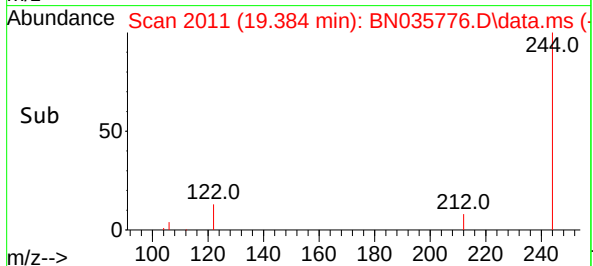
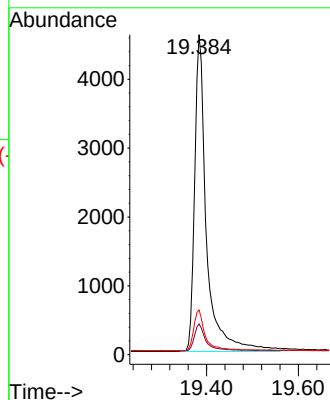
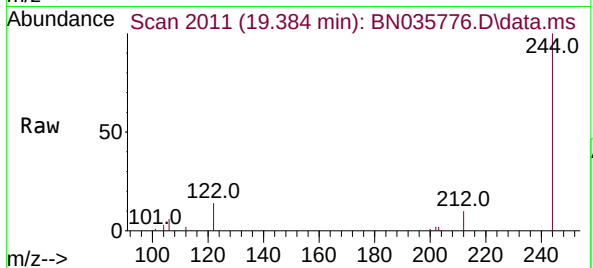
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.9	10.3	15.5

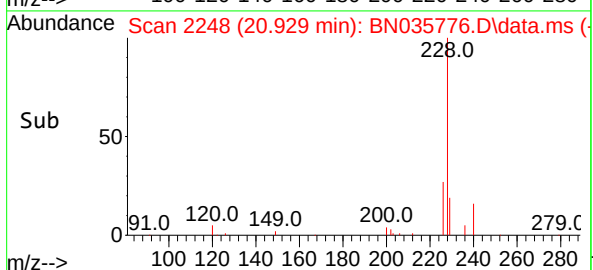
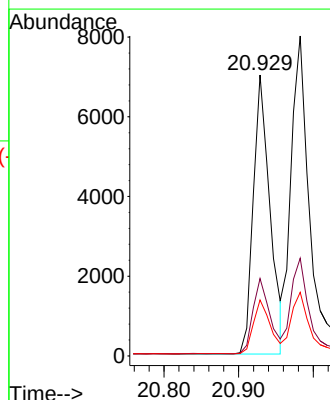
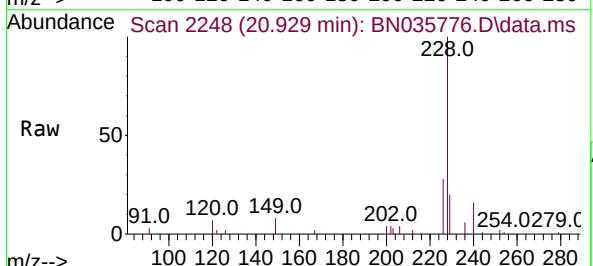
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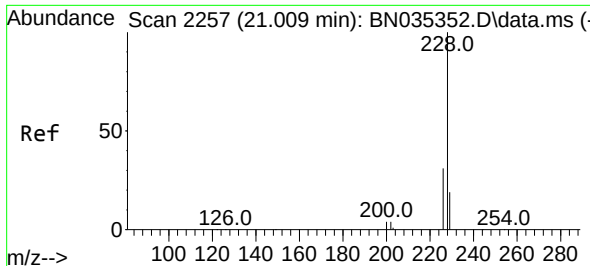
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.9	15.8	23.8





#33

Chrysene

Concen: 0.447 ng

RT: 20.982 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

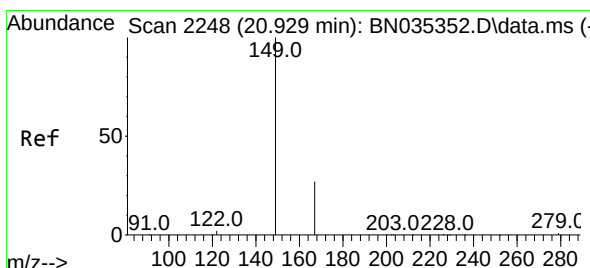
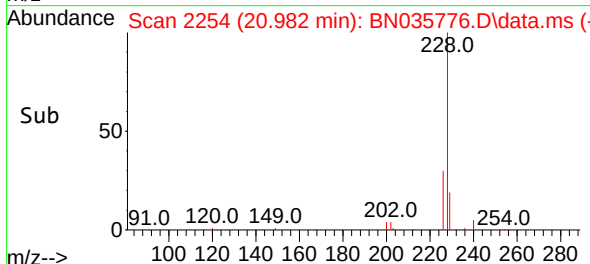
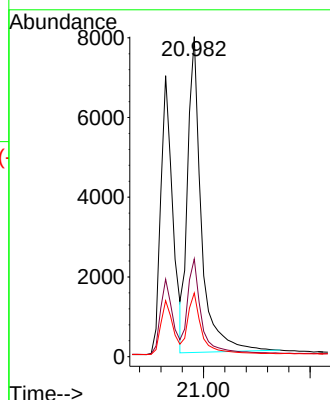
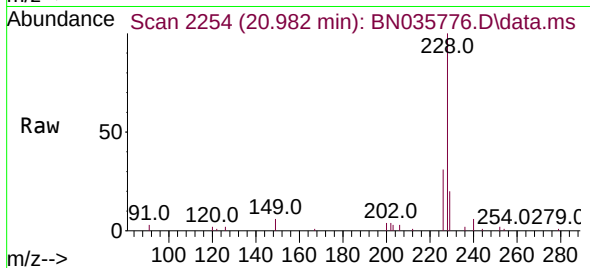
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	228	Resp:	1412
Ion Ratio	Lower	Upper	
228	100		
226	30.5	24.6	37.0
229	19.9	15.9	23.9

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



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.412 ng

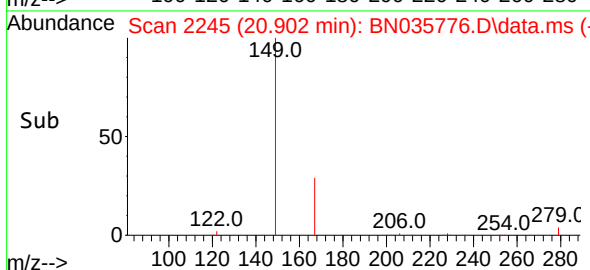
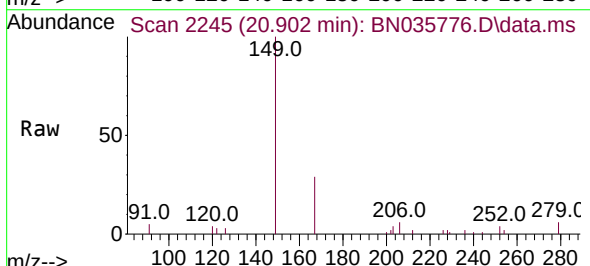
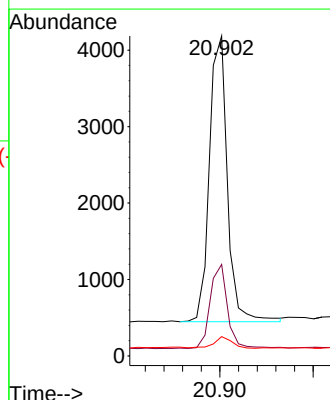
RT: 20.902 min Scan# 2245

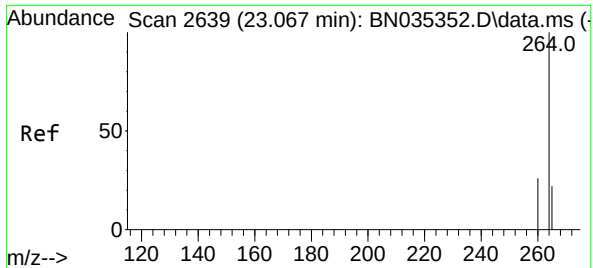
Delta R.T. -0.009 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

Tgt Ion:	149	Resp:	4992
Ion Ratio	Lower	Upper	
149	100		
167	28.2	22.2	33.4
279	4.0	2.7	4.1





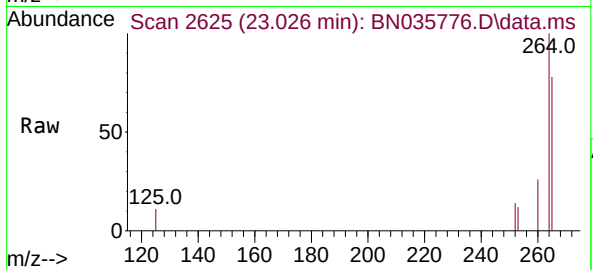
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



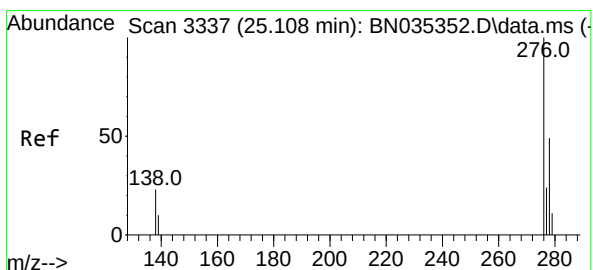
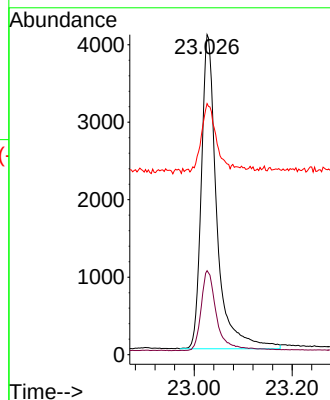
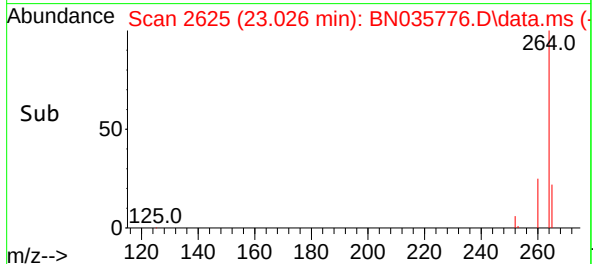
Tgt Ion:264 Resp: 8918
Ion Ratio Lower Upper
264 100
260 26.3 21.4 32.2
265 78.5 40.2 60.4

Manual Integrations

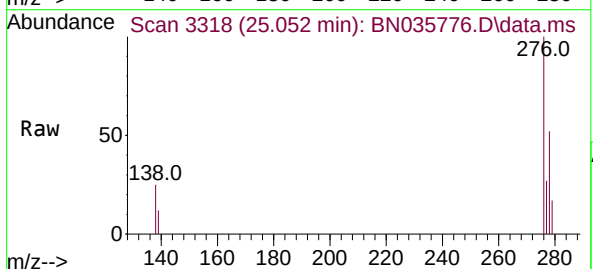
APPROVED

Reviewed By :Yogesh Patel 12/24/2024

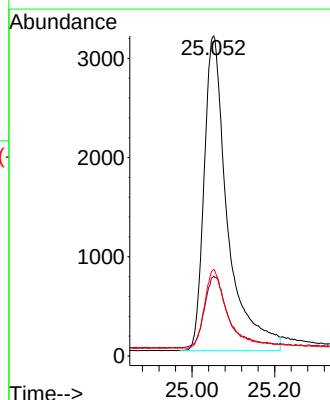
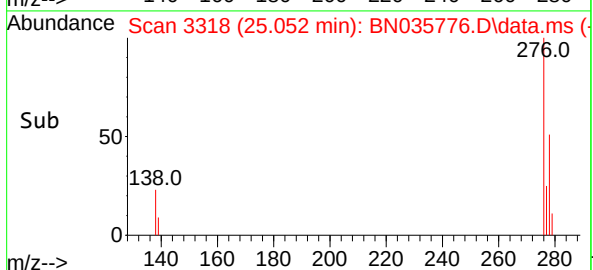
Supervised By :mohammad ahmed 12/26/2024

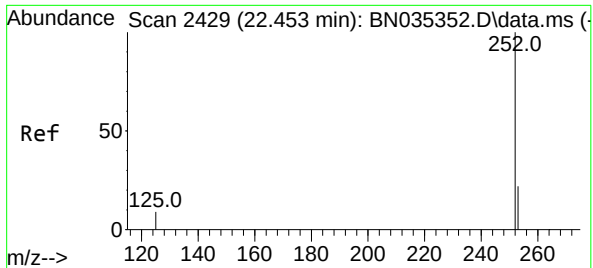


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.359 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22



Tgt Ion:276 Resp: 12530
Ion Ratio Lower Upper
276 100
138 23.2 19.4 29.0
277 24.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.646 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

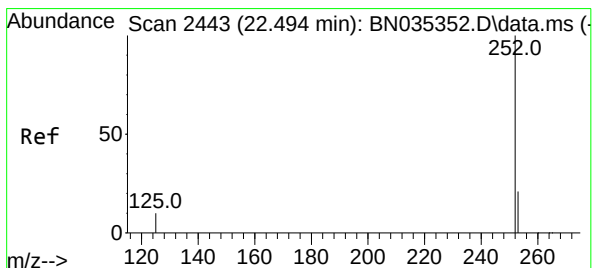
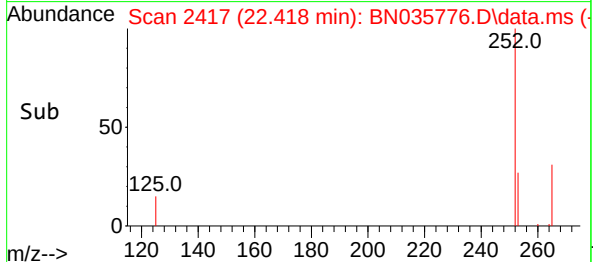
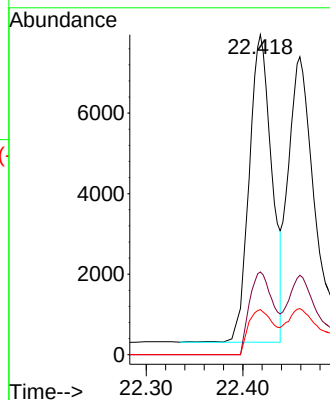
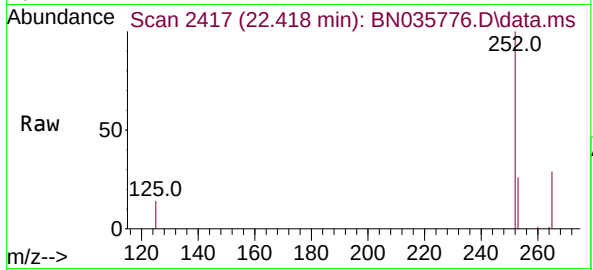
Tgt Ion:	252	Resp:	21074
Ion Ratio	Lower	Upper	
252	100		
253	25.9	19.6	29.4
125	14.1	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.466 ng m

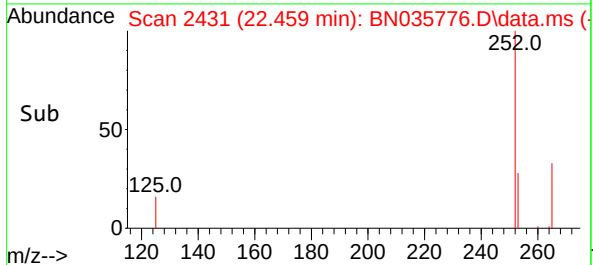
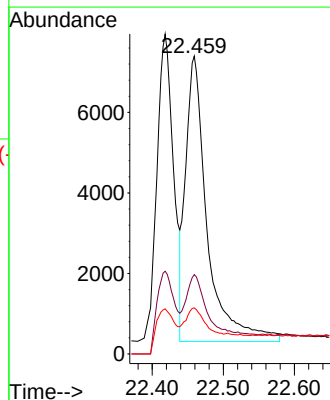
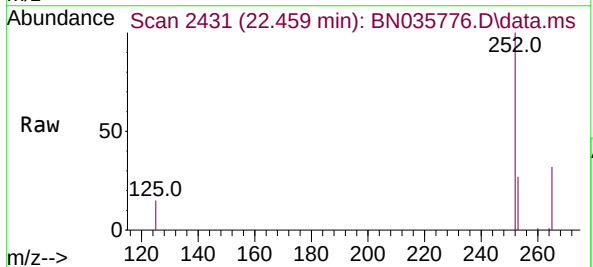
RT: 22.459 min Scan# 2431

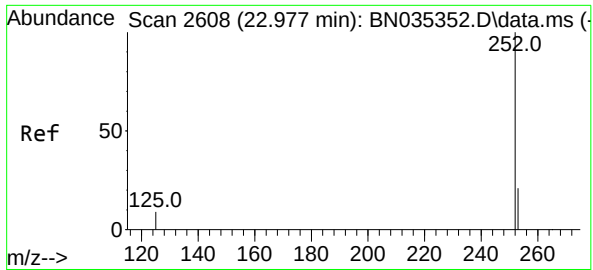
Delta R.T. -0.012 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

Tgt Ion:	252	Resp:	14978
Ion Ratio	Lower	Upper	
252	100		
253	26.6	19.5	29.3
125	15.5	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 22.942 min Scan# 2596

Delta R.T. -0.009 min

Lab File: BN035776.D

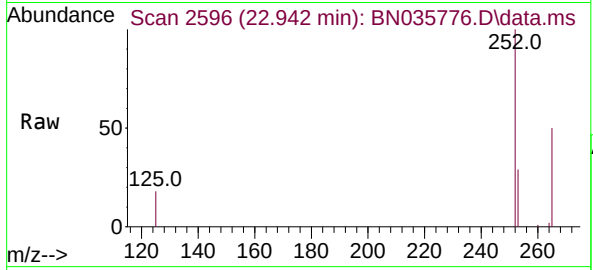
Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 10518

Ion Ratio Lower Upper

252 100

253 29.2 20.2 30.4

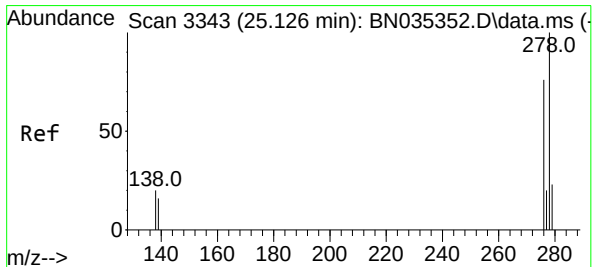
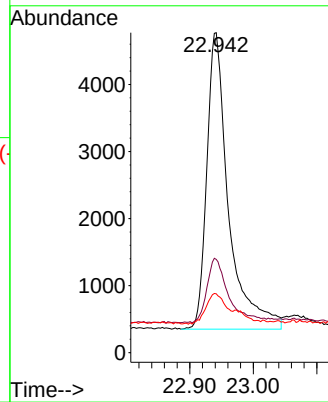
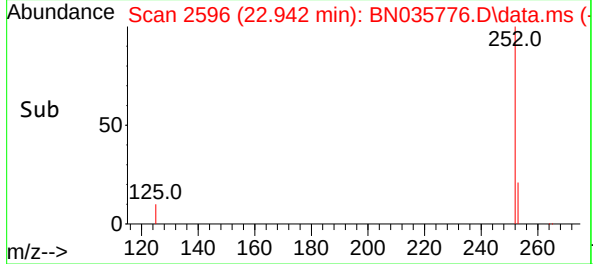
125 18.4 10.9 16.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

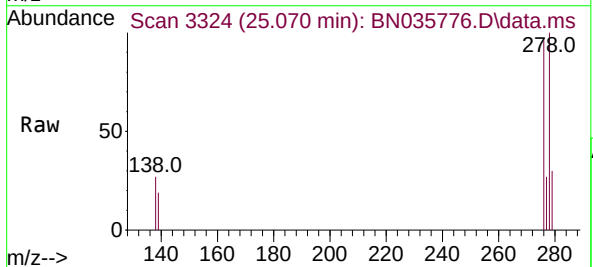
Concen: 0.337 ng

RT: 25.070 min Scan# 3324

Delta R.T. -0.012 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22



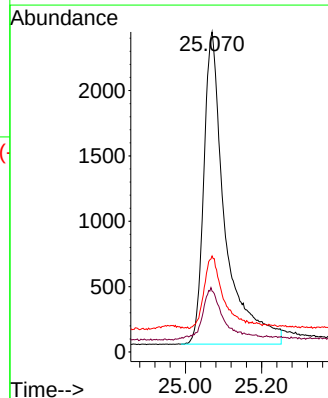
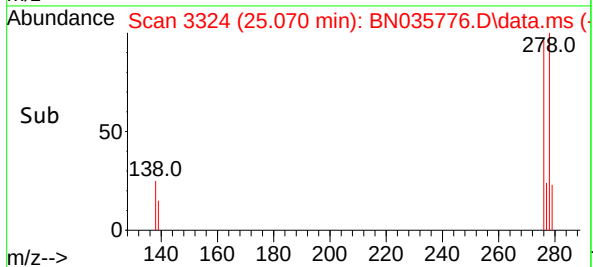
Tgt Ion:278 Resp: 9258

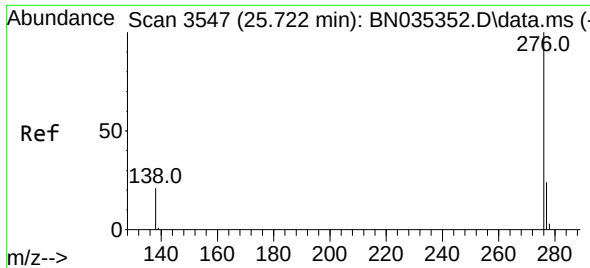
Ion Ratio Lower Upper

278 100

139 19.0 14.2 21.4

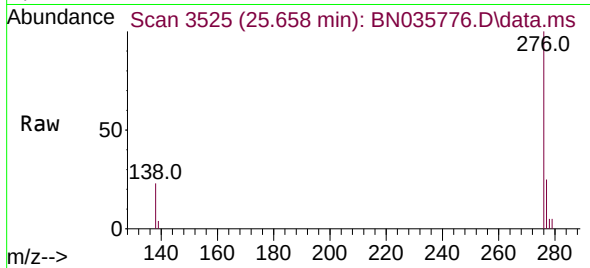
279 30.0 20.5 30.7





#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 25.658 min Scan# 31
Delta R.T. -0.021 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

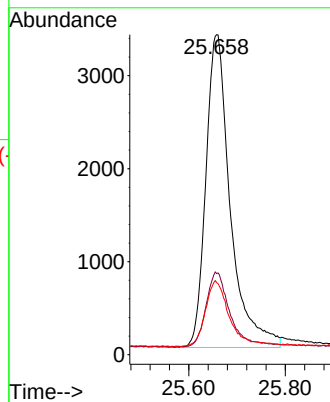
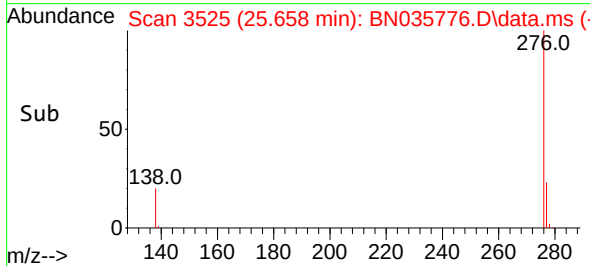
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:276 Resp: 1183
Ion Ratio Lower Upper
276 100
277 25.3 19.9 29.9
138 22.6 17.8 26.8

Manual Integrations
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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 : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	190#	0.00
2	1,4-Dioxane	0.382	0.429	-12.3	216#	0.00
3	n-Nitrosodimethylamine	0.319	0.329	-3.1	191#	0.00
4 S	2-Fluorophenol	1.001	1.008	-0.7	188#	0.00
5 S	Phenol-d6	1.204	1.111	7.7	177#	-0.01
6	bis(2-Chloroethyl)ether	1.012	1.016	-0.4	194#	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	193#	-0.01
8 S	Nitrobenzene-d5	0.244	0.284	-16.4	234#	-0.01
9	Naphthalene	1.055	1.082	-2.6	200#	-0.01
10	Hexachlorobutadiene	0.243	0.266	-9.5	208#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.601	4.0	188#	-0.01
12	2-Methylnaphthalene	0.755	0.691	8.5	180#	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	155#	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.205	27.8#	124	-0.01
15 S	2-Fluorobiphenyl	1.512	1.601	-5.9	165#	-0.01
16	Acenaphthylene	1.680	1.615	3.9	157#	-0.01
17	Acenaphthene	1.115	1.158	-3.9	165#	-0.01
18	Fluorene	1.596	1.439	9.8	145	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
20	4,6-Dinitro-2-methylphenol	0.039	0.015	61.5#	53	0.00
21	4-Bromophenyl-phenylether	0.234	0.233	0.4	125	-0.01
22	Hexachlorobenzene	0.275	0.341	-24.0	152#	-0.01
23	Atrazine	0.167	0.149	10.8	118	0.00
24	Pentachlorophenol	0.120	0.117	2.5	149	-0.01
25	Phenanthrene	1.099	1.088	1.0	124	-0.01
26	Anthracene	0.994	0.925	6.9	120	0.00
27 SURR	Fluoranthene-d10	1.134	1.037	8.6	117	0.00
28	Fluoranthene	1.481	1.308	11.7	112	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	92	0.00
30	Pyrene	1.477	1.744	-18.1	109	-0.01
31 S	Terphenyl-d14	0.789	0.943	-19.5	110	0.00
32	Benzo(a)anthracene	1.399	1.243	11.2	84	0.00
33	Chrysene	1.443	1.611	-11.6	103	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.569	-2.9	102	0.00
35 I	Perylene-d12	1.000	1.000	0.0	82	-0.01
36	Indeno(1,2,3-cd)pyrene	1.564	1.405	10.2	75	-0.01
37	Benzo(b)fluoranthene	1.463	2.363	-61.5#	148	-0.01
38	Benzo(k)fluoranthene	1.440	1.680	-16.7	99	-0.01
39 C	Benzo(a)pyrene	1.205	1.179	2.2	85	0.00
40	Dibenzo(a,h)anthracene	1.234	1.038	15.9	72	-0.01
41	Benzo(g,h,i)perylene	1.289	1.327	-2.9	87	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	190	0.00
2	1,4-Dioxane	0.400	0.448	-12.0	216	0.00
3	n-Nitrosodimethylamine	0.400	0.413	-3.2	191	0.00
4 S	2-Fluorophenol	0.400	0.403	-0.8	188	0.00
5 S	Phenol-d6	0.400	0.369	7.8	177	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.402	-0.5	194	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	193	-0.01
8 S	Nitrobenzene-d5	0.400	0.466	-16.5	234	-0.01
9	Naphthalene	0.400	0.410	-2.5	200	-0.01
10	Hexachlorobutadiene	0.400	0.437	-9.2	208	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.384	4.0	188	-0.01
12	2-Methylnaphthalene	0.400	0.366	8.5	180	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	155	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.288	28.0#	124	-0.01
15 S	2-Fluorobiphenyl	0.400	0.424	-6.0	165	-0.01
16	Acenaphthylene	0.400	0.385	3.8	157	-0.01
17	Acenaphthene	0.400	0.415	-3.7	165	-0.01
18	Fluorene	0.400	0.361	9.8	145	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	122	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.157	60.8#	53	0.00
21	4-Bromophenyl-phenylether	0.400	0.398	0.5	125	-0.01
22	Hexachlorobenzene	0.400	0.497	-24.2	152	-0.01
23	Atrazine	0.400	0.359	10.3	118	0.00
24	Pentachlorophenol	0.400	0.391	2.3	149	-0.01
25	Phenanthrene	0.400	0.396	1.0	124	-0.01
26	Anthracene	0.400	0.372	7.0	120	0.00
27 SURR	Fluoranthene-d10	0.400	0.366	8.5	117	0.00
28	Fluoranthene	0.400	0.353	11.8	112	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	92	0.00
30	Pyrene	0.400	0.472	-18.0	109	-0.01
31 S	Terphenyl-d14	0.400	0.478	-19.5	110	0.00
32	Benzo(a)anthracene	0.400	0.355	11.3	84	0.00
33	Chrysene	0.400	0.447	-11.7	103	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.412	-3.0	102	0.00
35 I	Perylene-d12	0.400	0.400	0.0	82	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.359	10.3	75	-0.01
37	Benzo(b)fluoranthene	0.400	0.646	-61.5#	148	-0.01
38	Benzo(k)fluoranthene	0.400	0.466	-16.5	99	-0.01
39 C	Benzo(a)pyrene	0.400	0.391	2.3	85	0.00
40	Dibenzo(a,h)anthracene	0.400	0.337	15.8	72	-0.01
41	Benzo(g,h,i)perylene	0.400	0.412	-3.0	87	-0.02

(#) = Out of Range

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



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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 19:51

Lab File ID: BN035792.D Init. Calib. Date(s): 11/27/2024 11/27/2024

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

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.557		-11.0	50.0
Fluoranthene-d10	1.134	0.972		-14.3	50.0
2-Fluorophenol	1.001	0.954		-4.7	50.0
Phenol-d6	1.204	1.061		-11.9	50.0
Nitrobenzene-d5	0.244	0.295		20.9	50.0
2-Fluorobiphenyl	1.512	1.518		0.4	50.0
2,4,6-Tribromophenol	0.284	0.220		-22.5	50.0
Terphenyl-d14	0.789	0.806		2.2	50.0
1,4-Dioxane	0.382	0.383		0.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035792.D
 Acq On : 23 Dec 2024 19:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 74 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

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

Quant Time: Dec 24 00:13:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.265	152	4653	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	11294	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	6622	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	13445	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	11173	0.400	ng	0.00
35) Perylene-d12	23.029	264	12122	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	4438	0.381	ng	0.00
5) Phenol-d6	6.477	99	4937	0.352	ng	-0.01
8) Nitrobenzene-d5	8.397	82	3336m	0.484	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	6296	0.356	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	1460	0.311	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	10050	0.401	ng	-0.01
27) Fluoranthene-d10	18.752	212	13067	0.343	ng	0.00
31) Terphenyl-d14	19.384	244	9007	0.409	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.982	88	1781	0.400	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.271	42	1450	0.391	ng	# 87
6) bis(2-Chloroethyl)ether	6.716	93	4124	0.350	ng	100
9) Naphthalene	10.052	128	11411	0.383	ng	99
10) Hexachlorobutadiene	10.340	225	2978	0.433	ng	# 99
12) 2-Methylnaphthalene	11.687	142	7291	0.342	ng	100
16) Acenaphthylene	13.636	152	10309	0.371	ng	99
17) Acenaphthene	13.989	154	7045	0.382	ng	99
18) Fluorene	14.994	166	9147	0.346	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	441	0.334	ng	# 71
21) 4-Bromophenyl-phenylether	15.904	248	2928	0.372	ng	# 95
22) Hexachlorobenzene	16.003	284	4080	0.442	ng	97
23) Atrazine	16.202	200	2050	0.366	ng	94
24) Pentachlorophenol	16.363	266	1288	0.321	ng	89
25) Phenanthrene	16.736	178	13655	0.370	ng	100
26) Anthracene	16.835	178	11693	0.350	ng	99
28) Fluoranthene	18.780	202	16797	0.337	ng	100
30) Pyrene	19.152	202	17165	0.416	ng	100
32) Benzo(a)anthracene	20.929	228	13119	0.336	ng	100
33) Chrysene	20.983	228	16717	0.415	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6294	0.408	ng	100
36) Indeno(1,2,3-cd)pyrene	25.050	276	17740	0.374	ng	99
37) Benzo(b)fluoranthene	22.418	252	23904	0.539	ng	99
38) Benzo(k)fluoranthene	22.462	252	18914m	0.433	ng	
39) Benzo(a)pyrene	22.942	252	13375	0.366	ng	# 93
40) Dibenzo(a,h)anthracene	25.067	278	13081	0.350	ng	97
41) Benzo(g,h,i)perylene	25.661	276	15725	0.402	ng	100

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

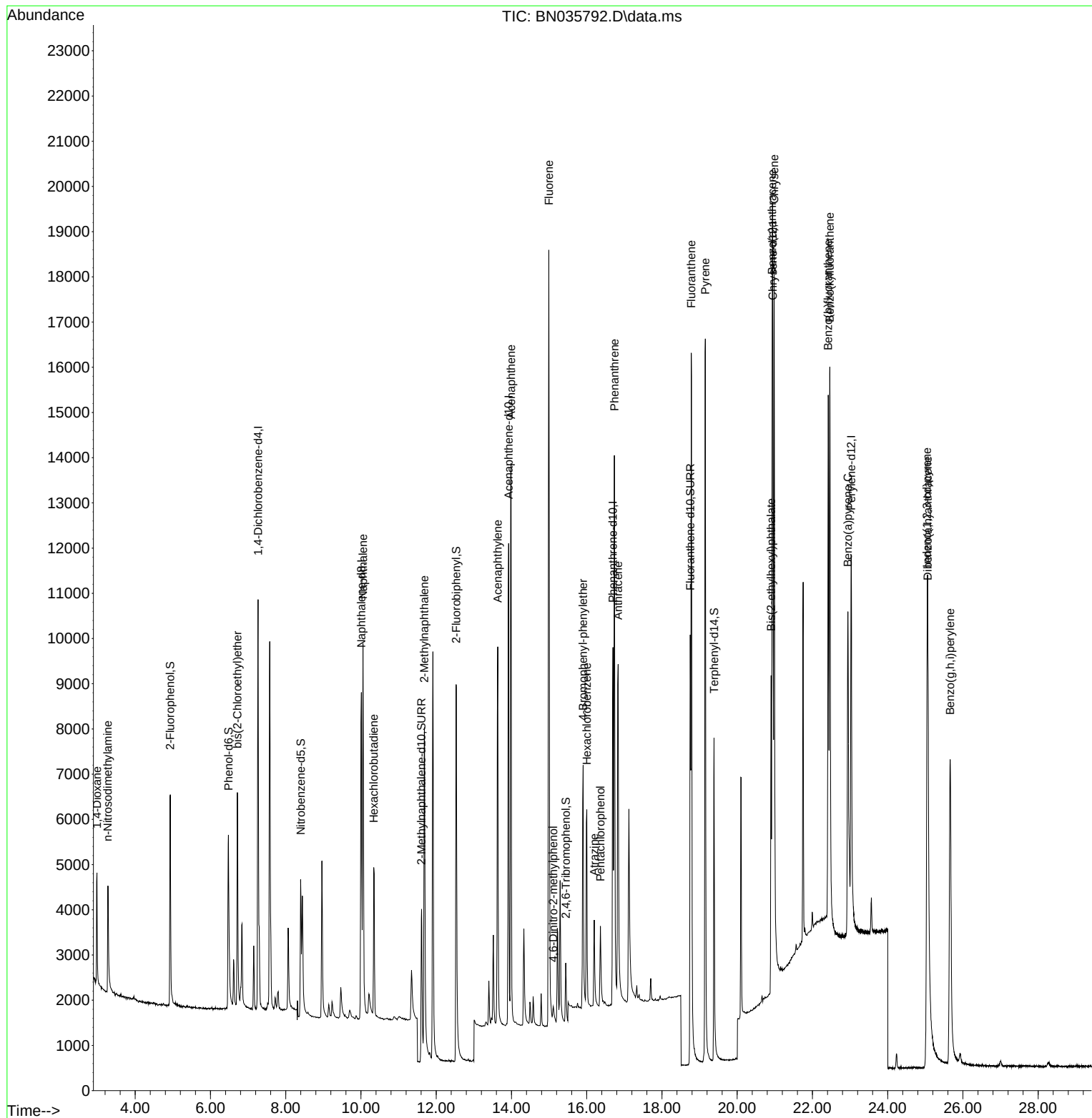
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Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

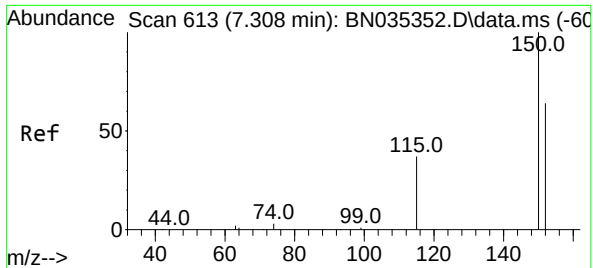
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

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

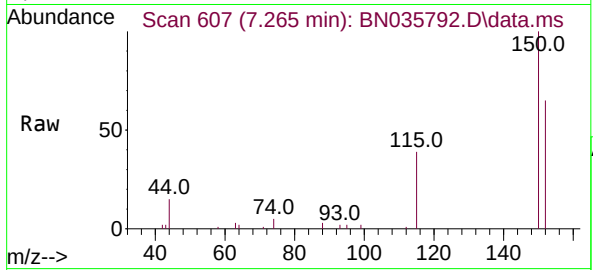
Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.265 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

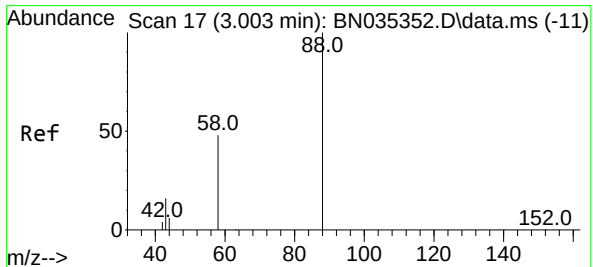
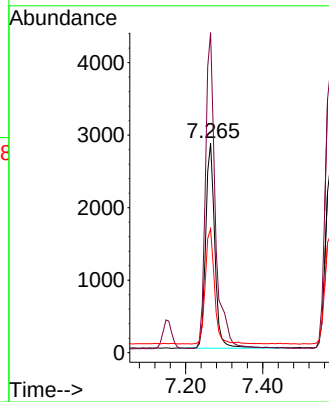
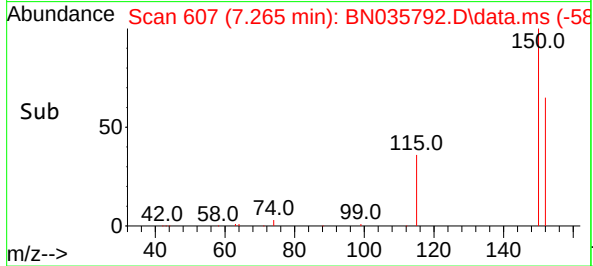
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 465
Ion Ratio Lower Upper
152 100
150 152.8 124.0 186.0
115 59.2 49.6 74.4

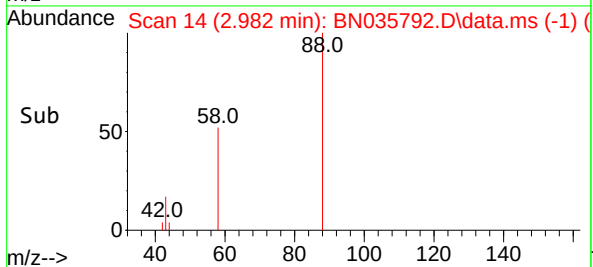
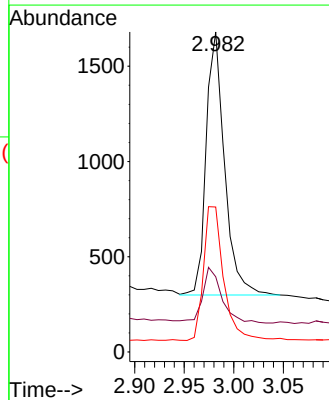
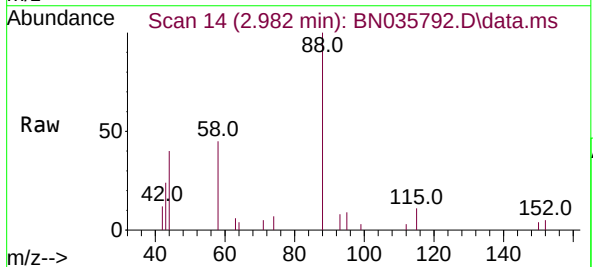
Manual Integrations
APPROVED

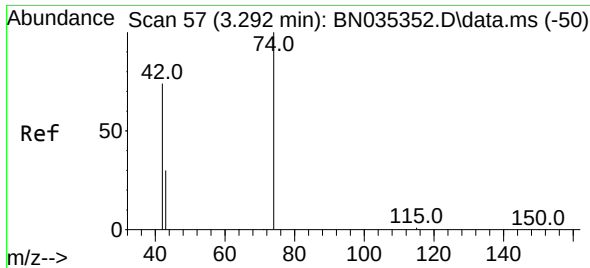
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

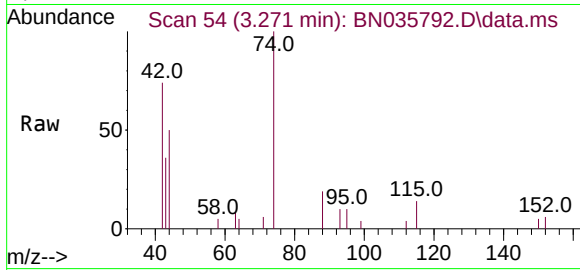
Tgt Ion: 88 Resp: 1781
Ion Ratio Lower Upper
88 100
43 22.0 17.2 25.8
58 55.8 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

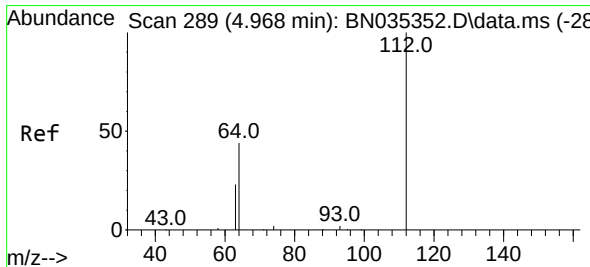
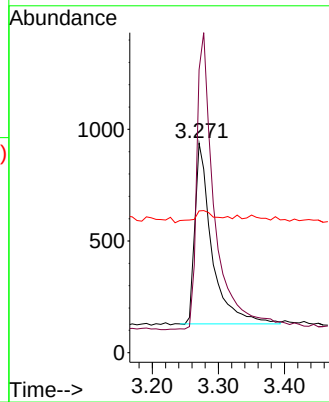
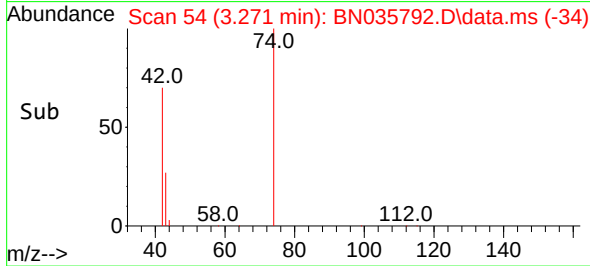
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 1450
Ion Ratio Lower Upper
42 100
74 173.0 124.9 187.3
44 5.2 2.2 3.4

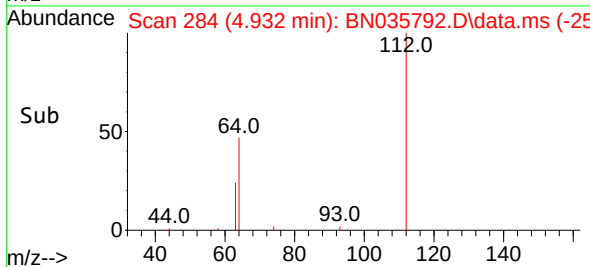
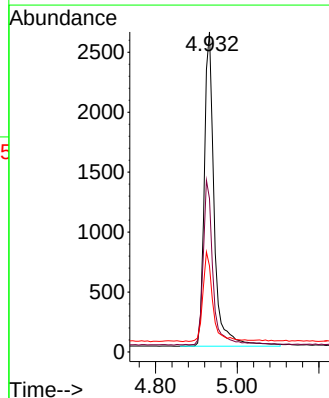
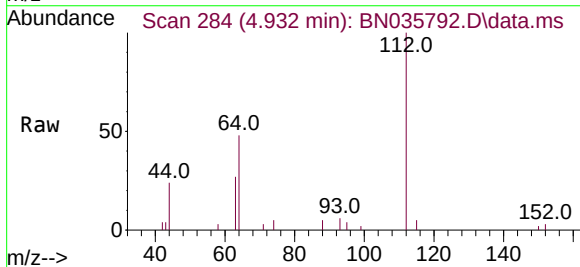
Manual Integrations
APPROVED

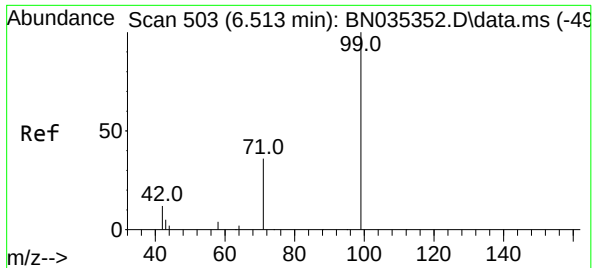
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#4
2-Fluorophenol
Concen: 0.381 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:112 Resp: 4438
Ion Ratio Lower Upper
112 100
64 51.3 39.8 59.8
63 28.3 21.0 31.6





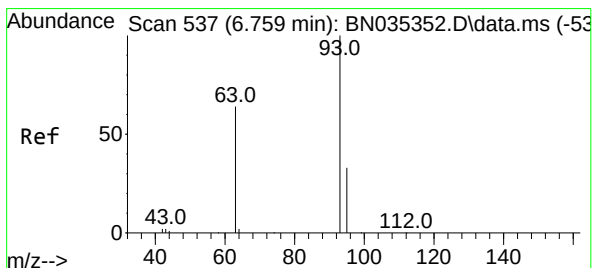
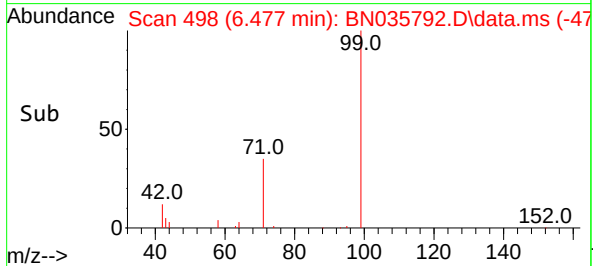
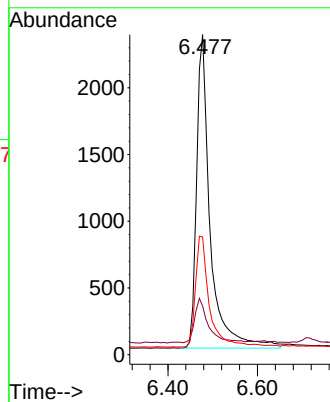
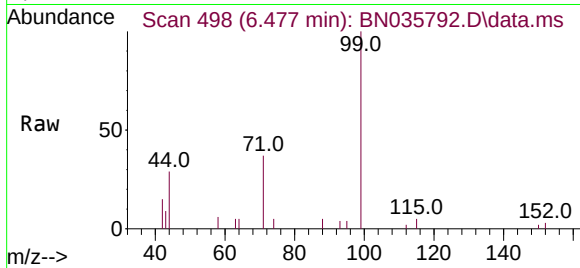
#5
Phenol-d6
Concen: 0.352 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 493
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 36.4 29.3 43.9

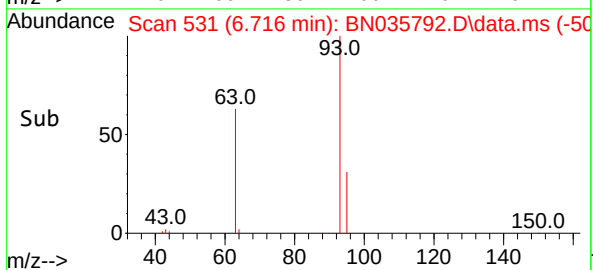
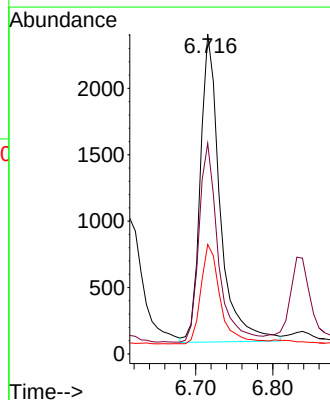
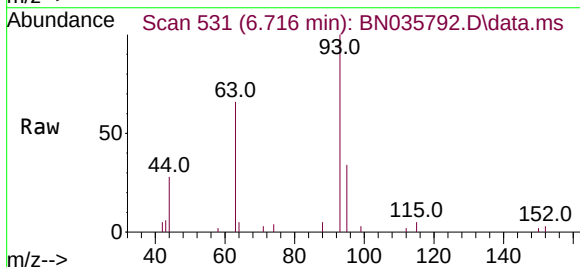
Manual Integrations
APPROVED

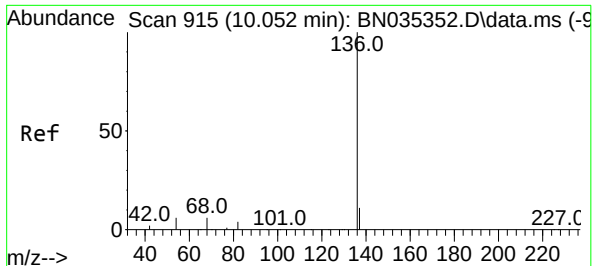
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 93 Resp: 4124
Ion Ratio Lower Upper
93 100
63 63.0 50.4 75.6
95 32.1 25.7 38.5





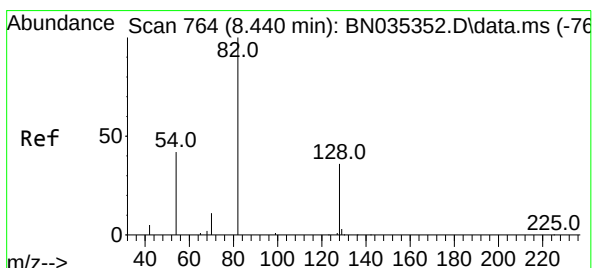
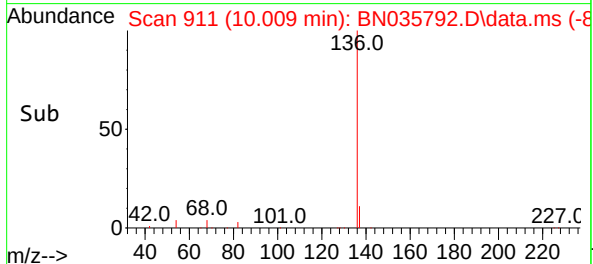
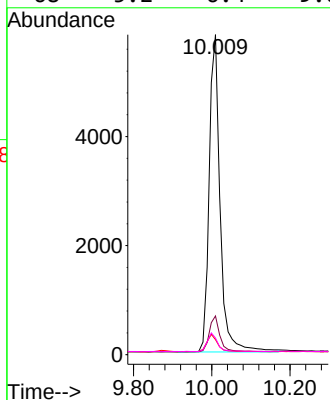
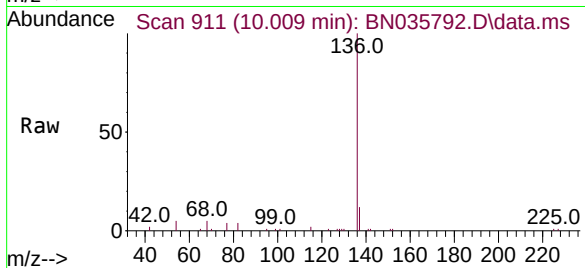
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 11294
Ion Ratio Lower Upper
136 100
137 12.1 10.2 15.2
54 4.7 6.1 9.1
68 5.2 6.4 9.6#

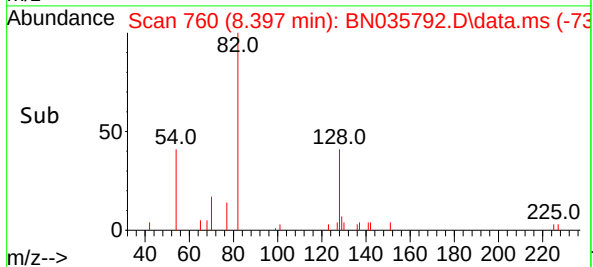
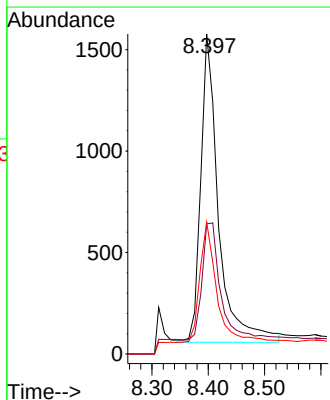
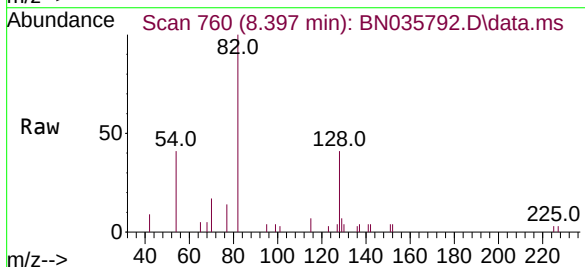
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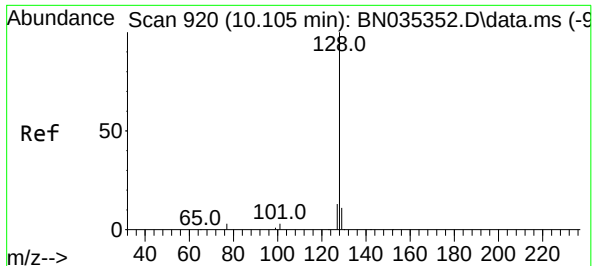
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#8
Nitrobenzene-d5
Concen: 0.484 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 82 Resp: 3336
Ion Ratio Lower Upper
82 100
128 40.6 33.4 50.0
54 41.3 36.7 55.1





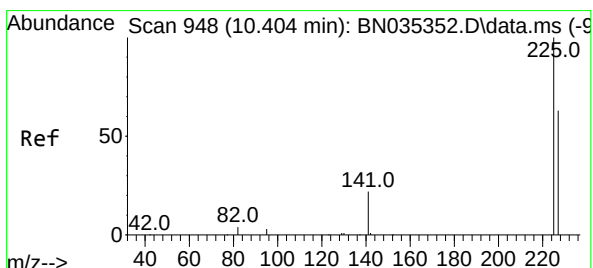
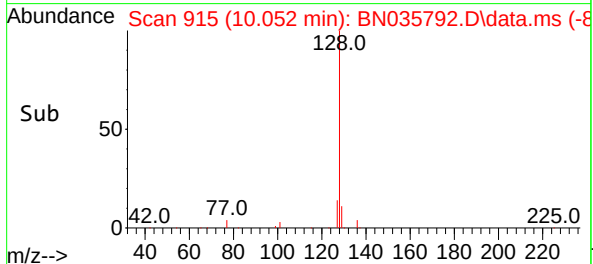
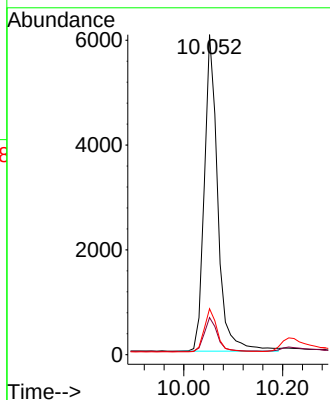
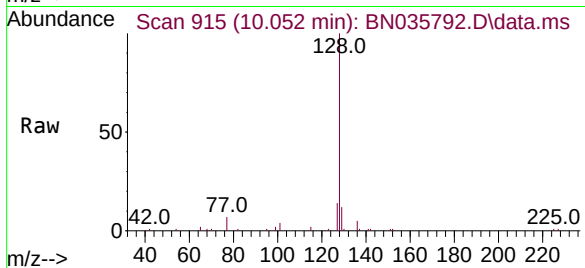
#9
Naphthalene
Concen: 0.383 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 1141
Ion Ratio Lower Upper
128 100
129 11.6 9.8 14.6
127 14.3 11.4 17.2

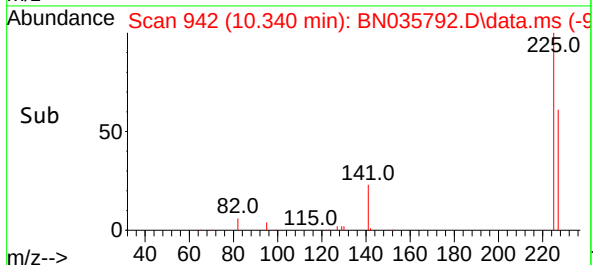
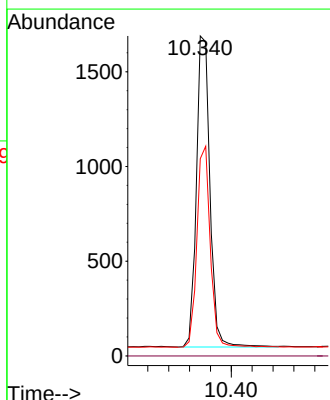
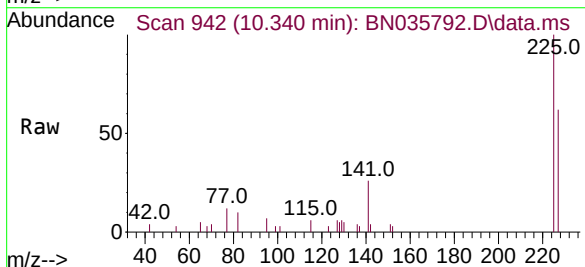
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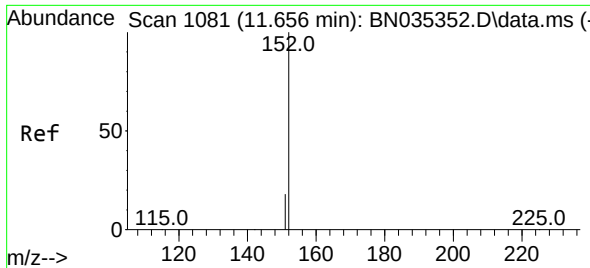
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

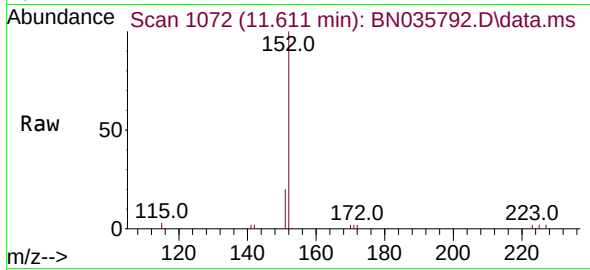
Tgt Ion:225 Resp: 2978
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

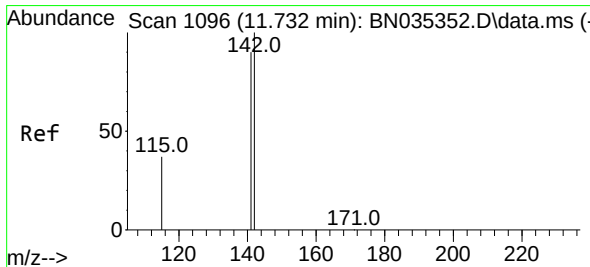
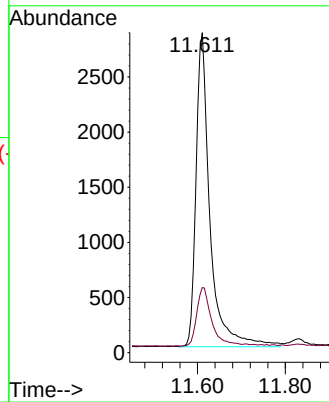
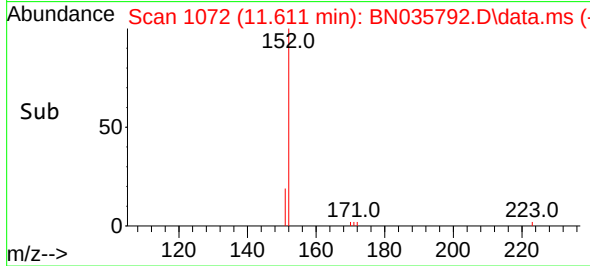
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:152 Resp: 6290
Ion Ratio Lower Upper
152 100
151 19.8 16.6 25.0

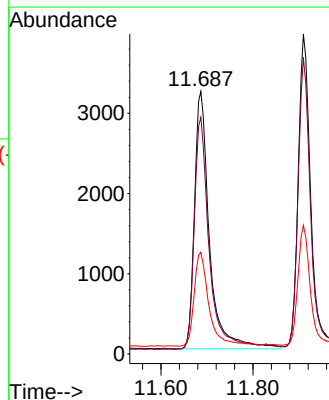
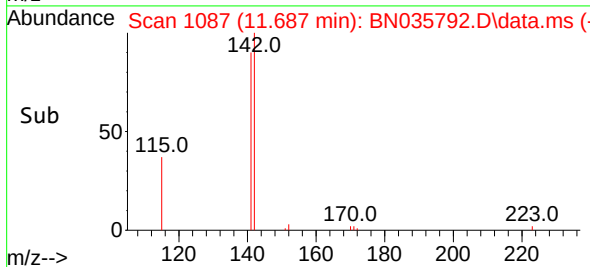
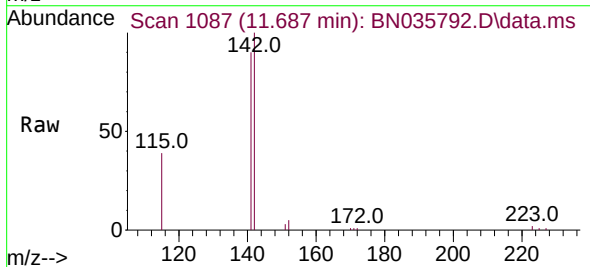
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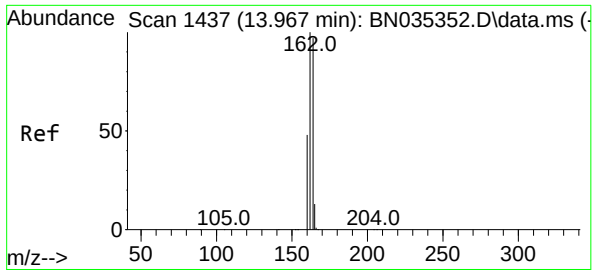
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#12
2-Methylnaphthalene
Concen: 0.342 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

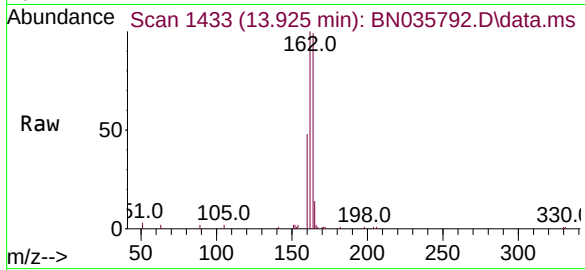
Tgt Ion:142 Resp: 7291
Ion Ratio Lower Upper
142 100
141 90.1 72.2 108.4
115 38.7 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

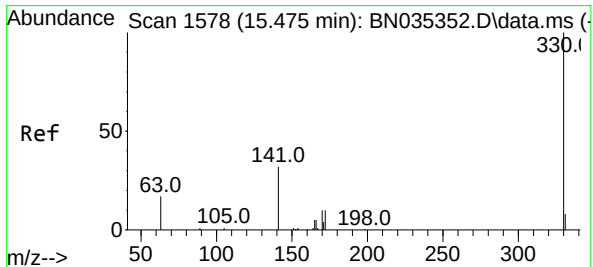
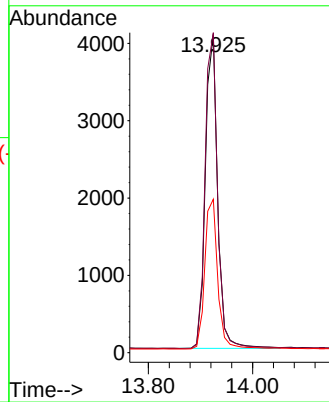
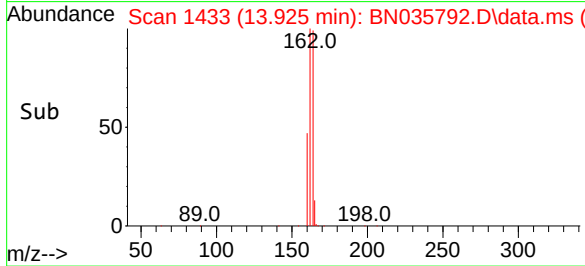
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 662
Ion Ratio Lower Upper
164 100
162 100.6 82.2 123.2
160 48.2 40.1 60.1

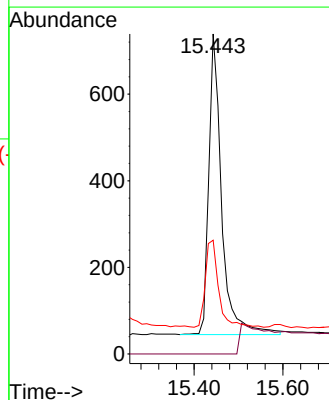
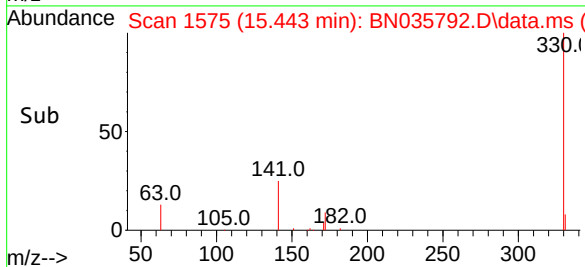
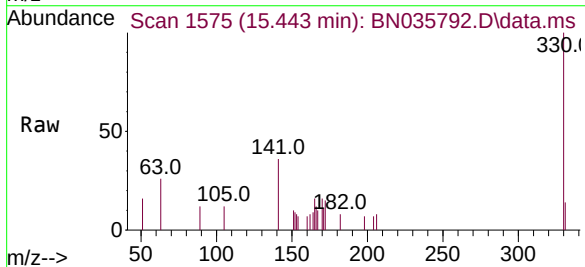
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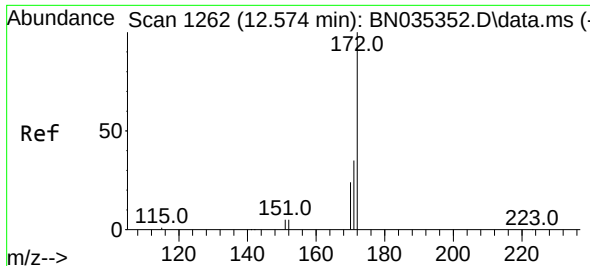
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:330 Resp: 1460
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.7 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.401 ng

RT: 12.534 min Scan# 11

Delta R.T. -0.010 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:172 Resp: 10050

Ion Ratio Lower Upper

172 100

171 34.8 29.0 43.4

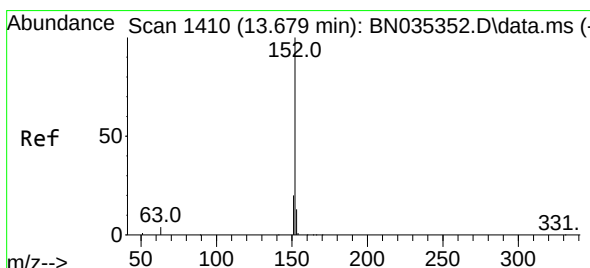
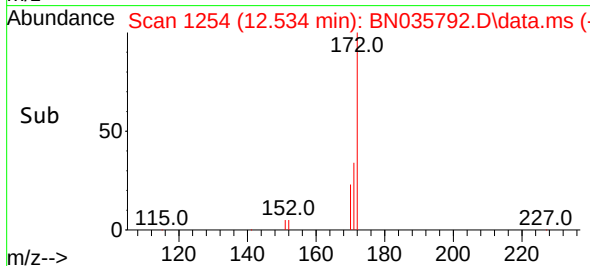
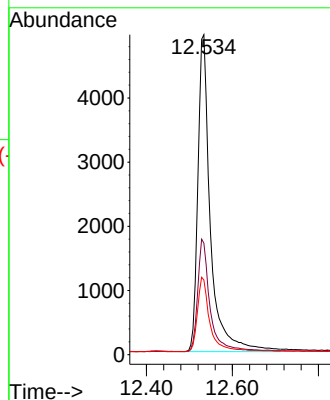
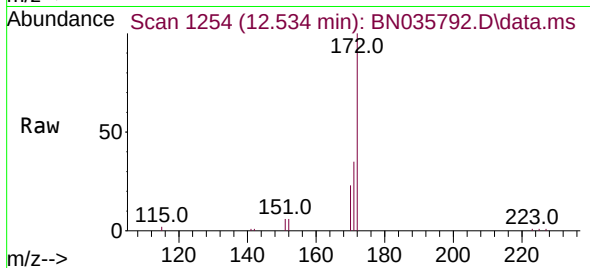
170 23.3 19.8 29.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#16

Acenaphthylene

Concen: 0.371 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

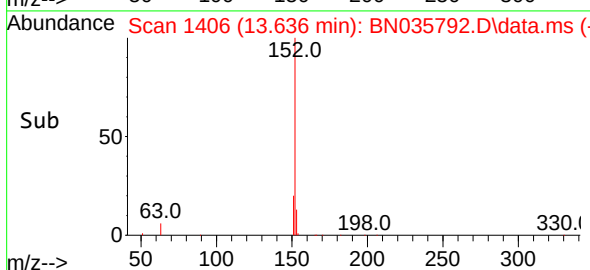
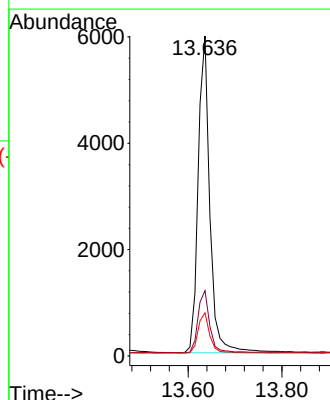
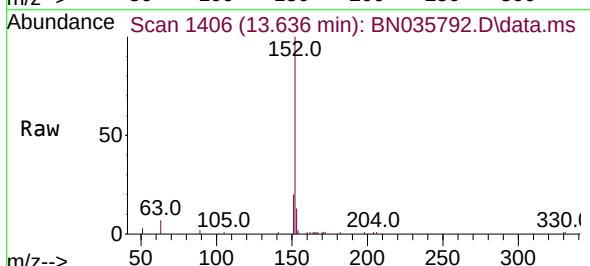
Tgt Ion:152 Resp: 10309

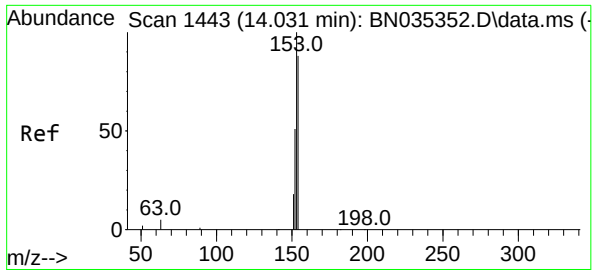
Ion Ratio Lower Upper

152 100

151 19.6 16.2 24.2

153 12.9 10.4 15.6





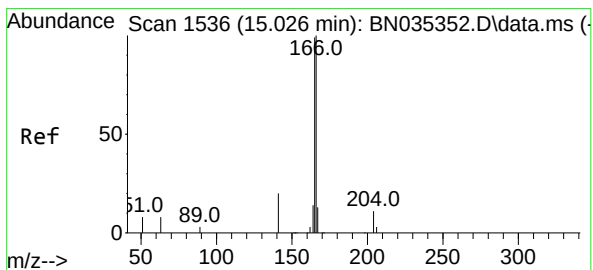
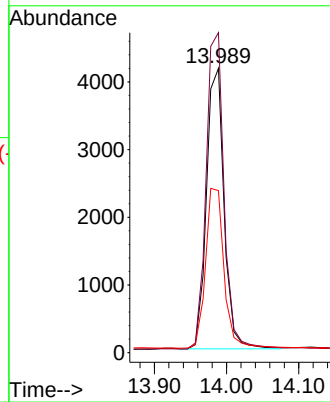
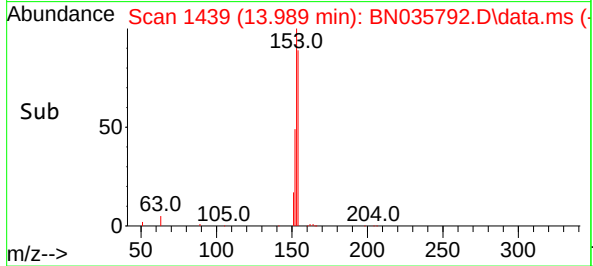
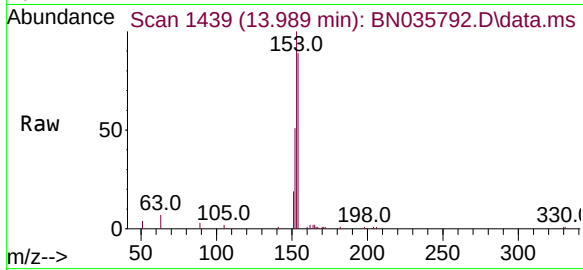
#17
Acenaphthene
Concen: 0.382 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 7045
Ion Ratio Lower Upper
154 100
153 115.6 92.6 139.0
152 60.1 49.0 73.6

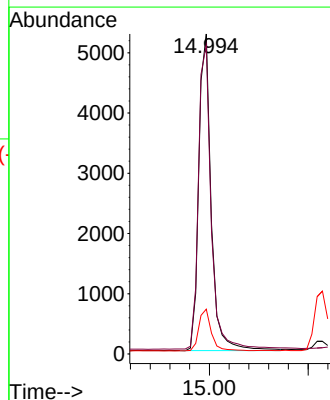
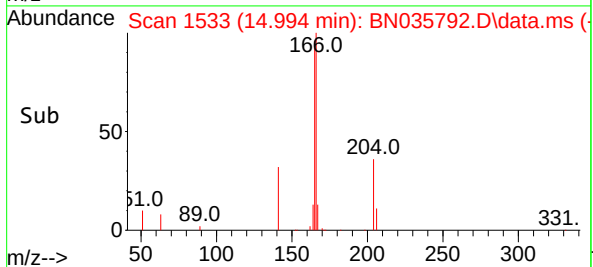
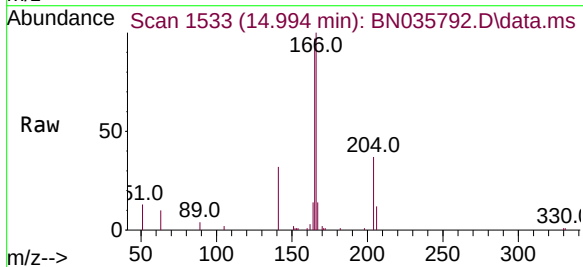
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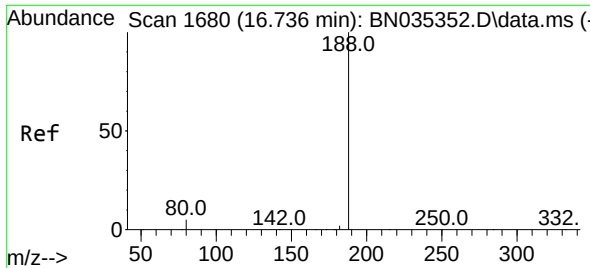
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#18
Fluorene
Concen: 0.346 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:166 Resp: 9147
Ion Ratio Lower Upper
166 100
165 99.0 79.7 119.5
167 13.4 10.8 16.2





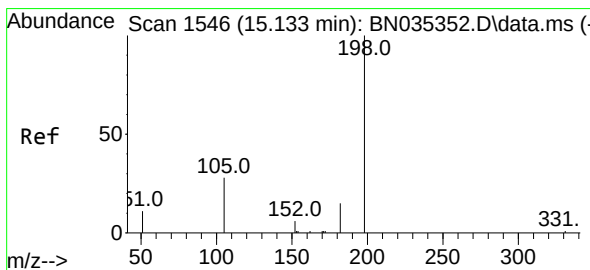
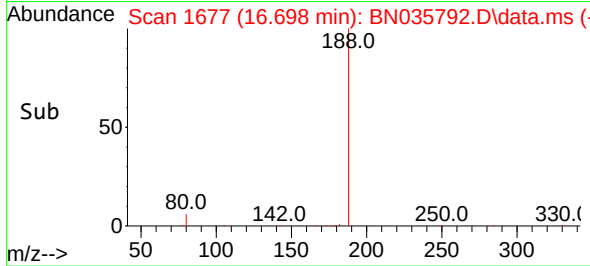
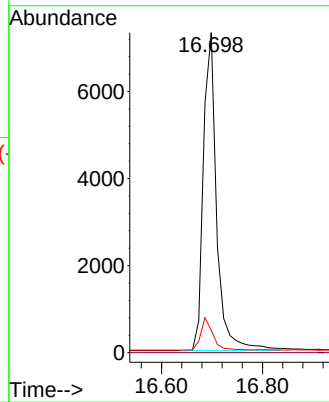
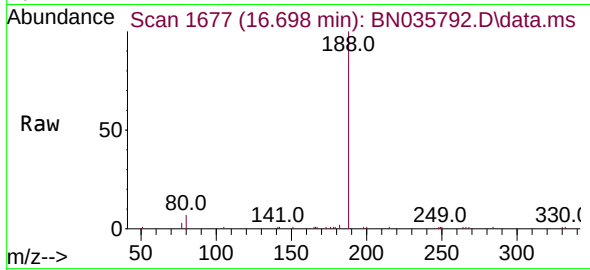
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 1344
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.1 4.6 6.8

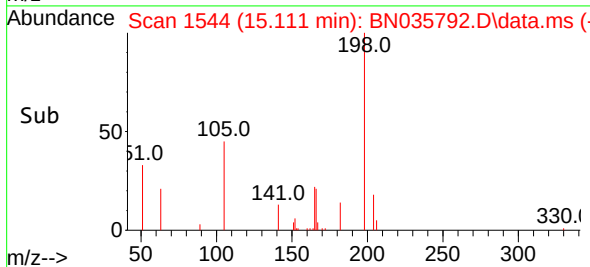
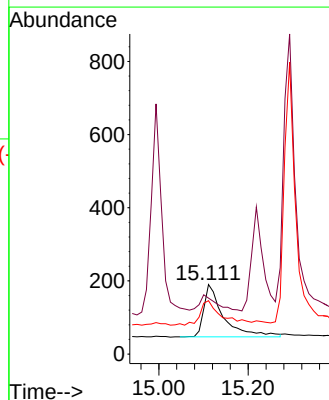
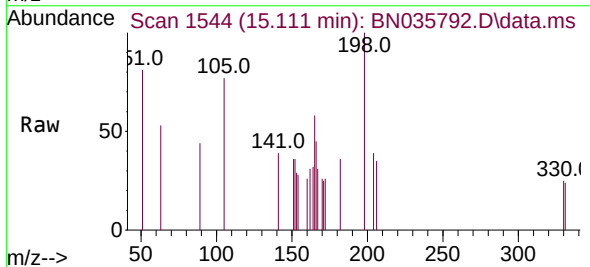
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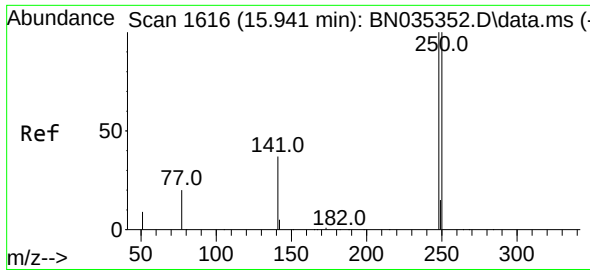
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

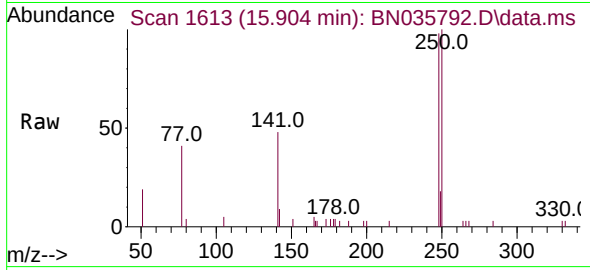
Tgt Ion:198 Resp: 441
Ion Ratio Lower Upper
198 100
51 80.5 46.5 69.7#
105 76.8 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

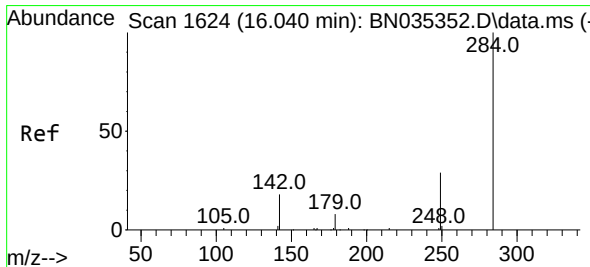
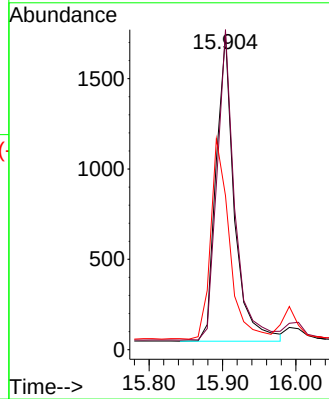
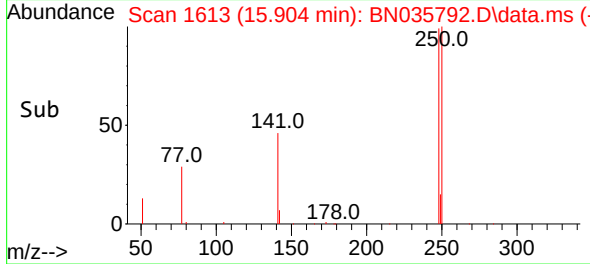
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:248 Resp: 2928
Ion Ratio Lower Upper
248 100
250 101.5 80.6 120.8
141 48.9 31.5 47.3

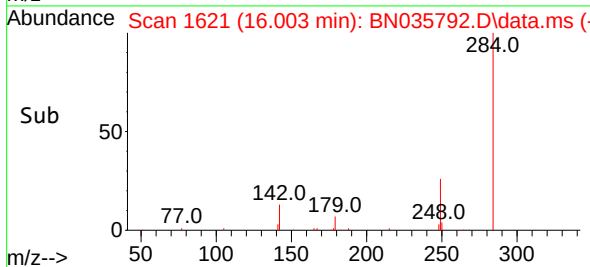
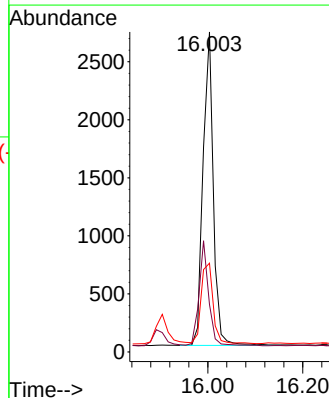
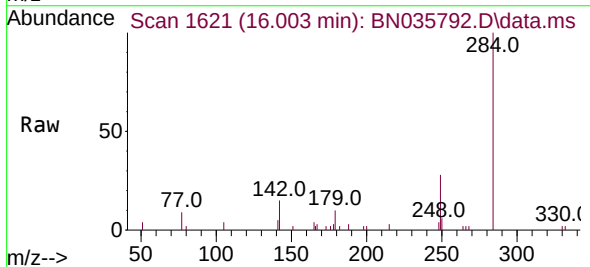
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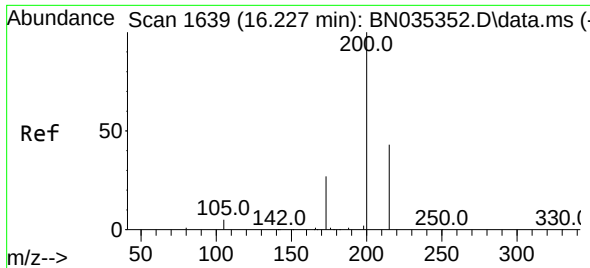
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#22
Hexachlorobenzene
Concen: 0.442 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:284 Resp: 4080
Ion Ratio Lower Upper
284 100
142 31.0 26.7 40.1
249 30.0 24.6 36.8





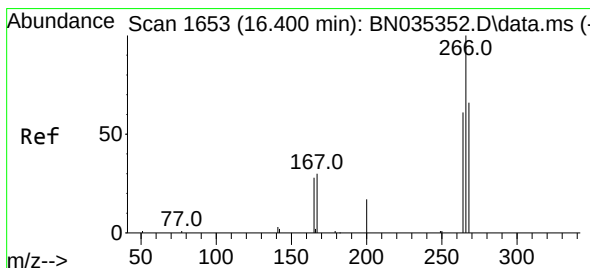
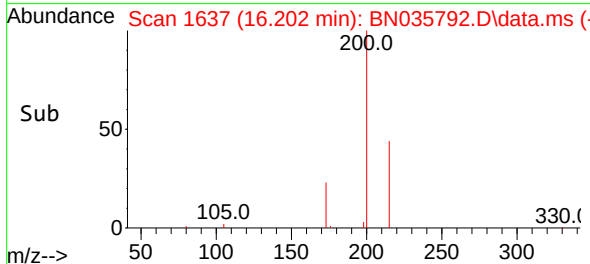
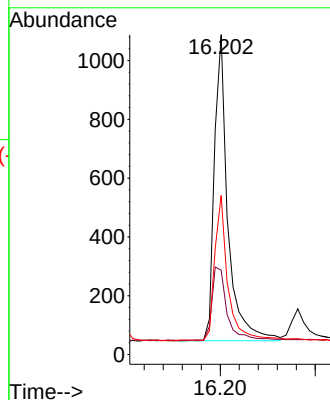
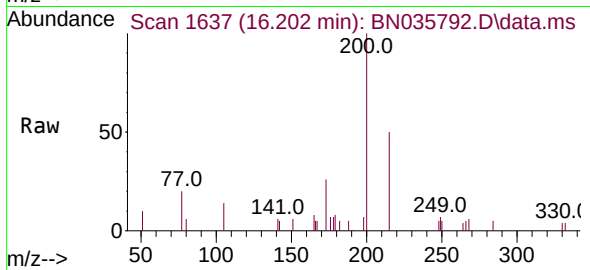
#23
Atrazine
Concen: 0.366 ng
RT: 16.202 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2050
Ion Ratio Lower Upper
200 100
173 26.4 24.1 36.1
215 49.7 36.9 55.3

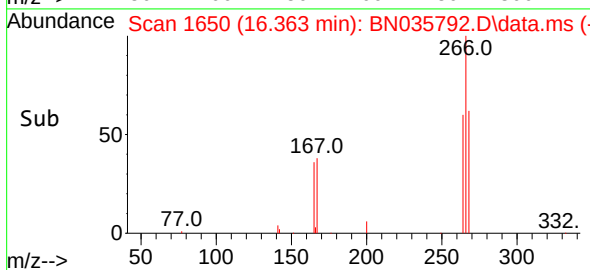
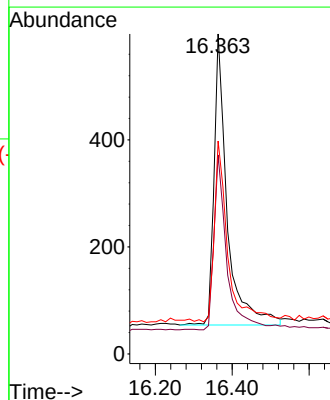
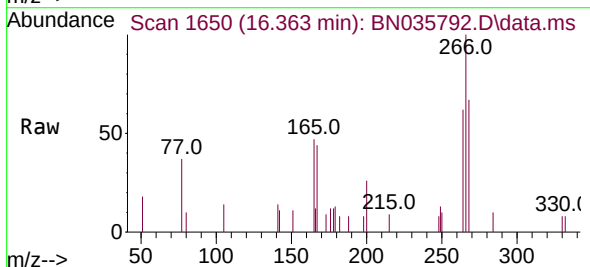
Manual Integrations
APPROVED

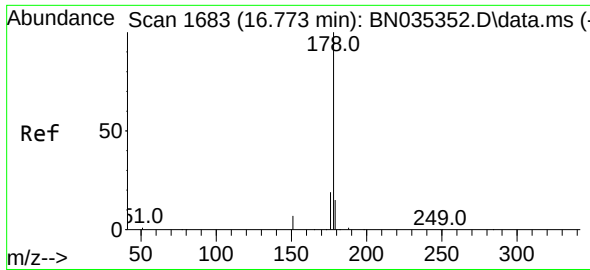
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:266 Resp: 1288
Ion Ratio Lower Upper
266 100
264 59.5 42.3 63.5
268 62.8 43.3 64.9





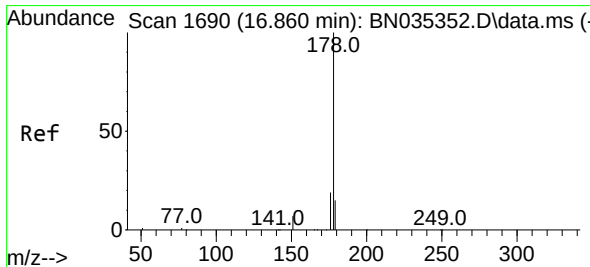
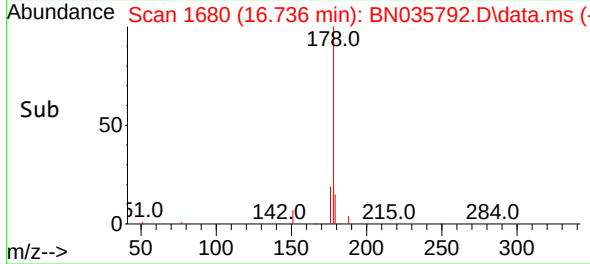
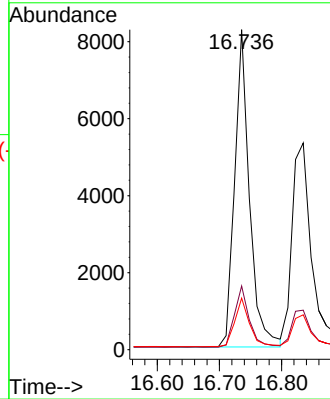
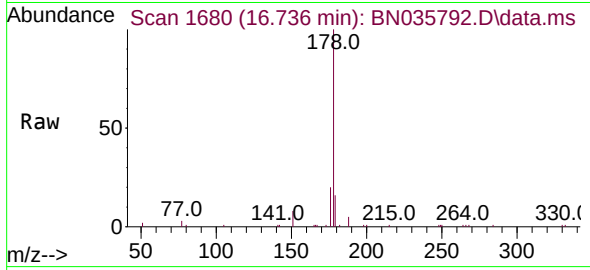
#25
Phenanthrene
Concen: 0.370 ng
RT: 16.736 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 1365
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.5 12.3 18.5

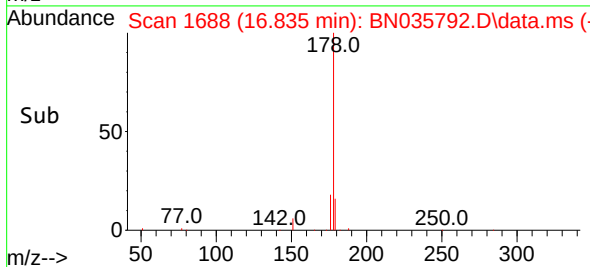
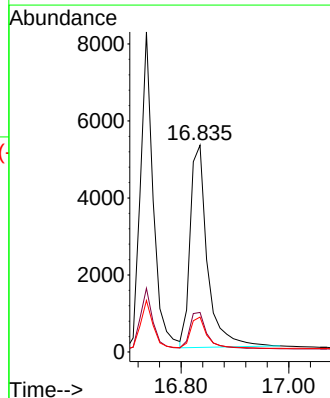
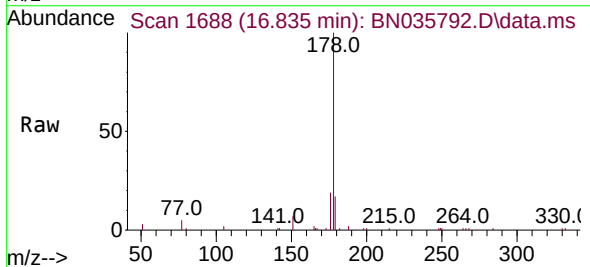
Manual Integrations
APPROVED

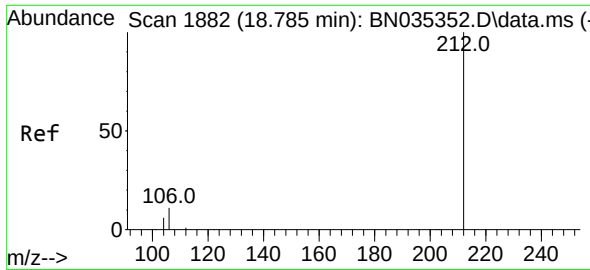
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

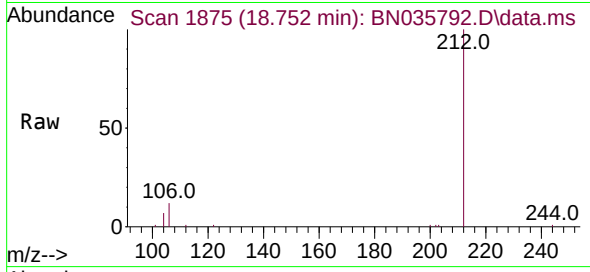
Tgt Ion:178 Resp: 11693
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.4 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.343 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

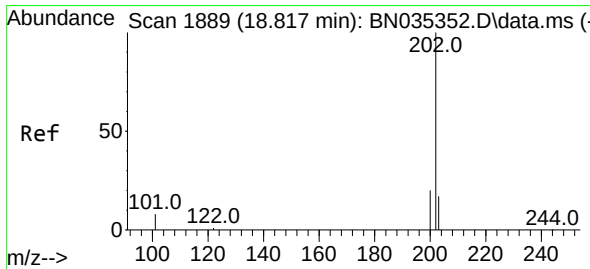
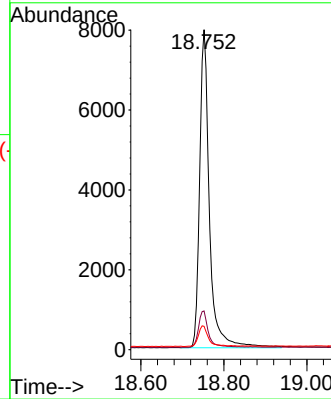
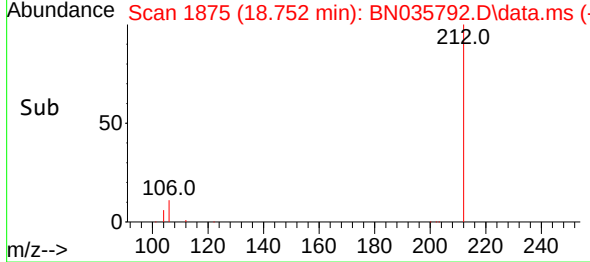
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:212 Resp: 1306
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 6.6 5.3 7.9

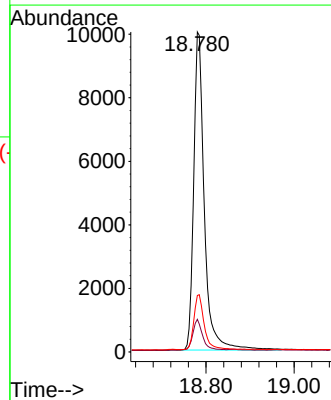
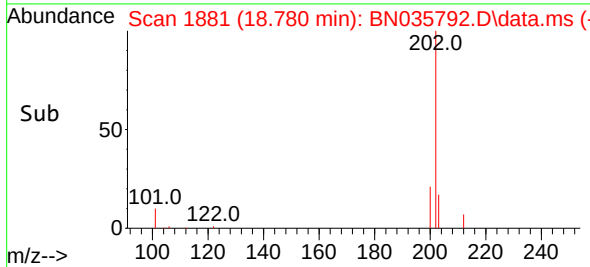
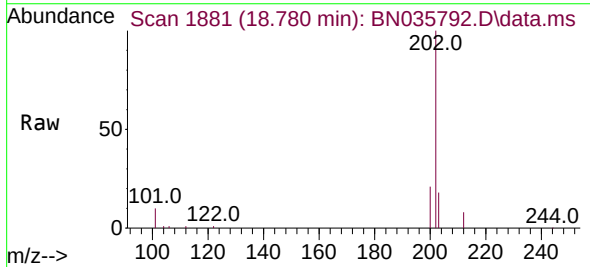
Manual Integrations
APPROVED

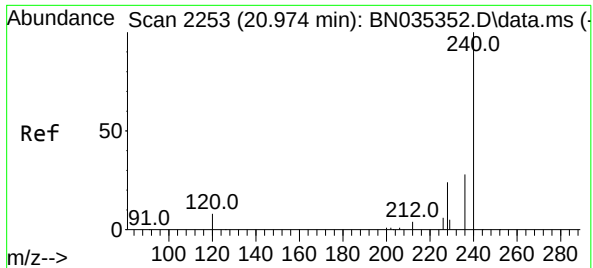
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 16797
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 2117

Delta R.T. -0.009 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

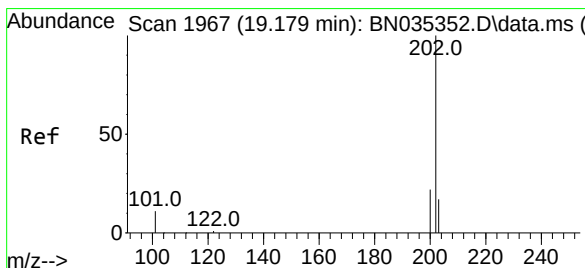
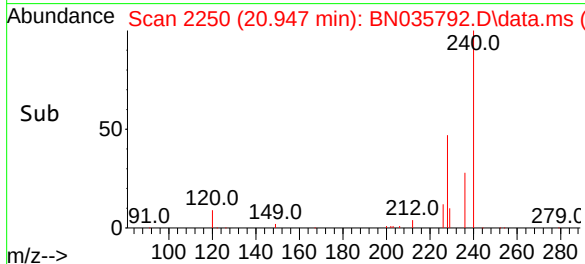
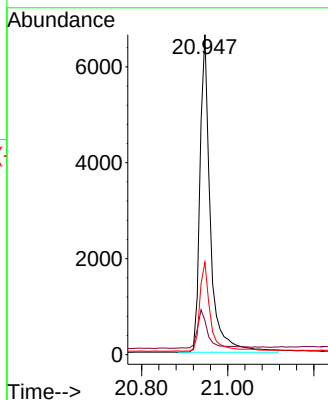
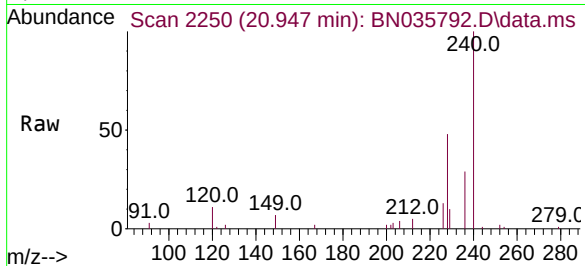
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240	Resp:	1117
Ion Ratio	Lower	Upper
240	100	
120	10.7	7.9 11.9
236	28.9	22.9 34.3

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



#30

Pyrene

Concen: 0.416 ng

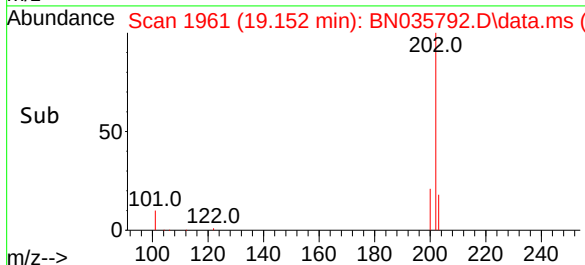
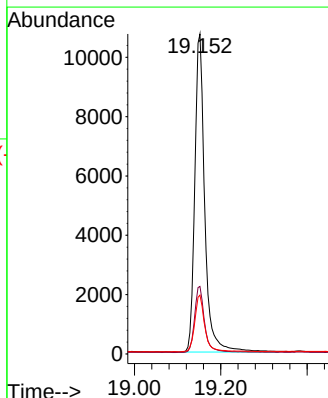
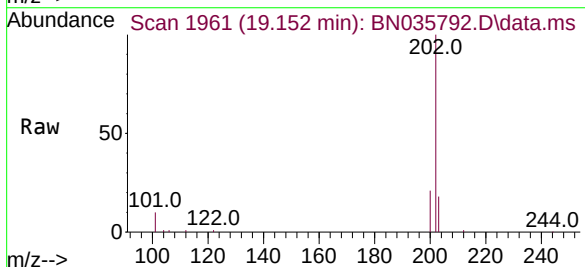
RT: 19.152 min Scan# 1961

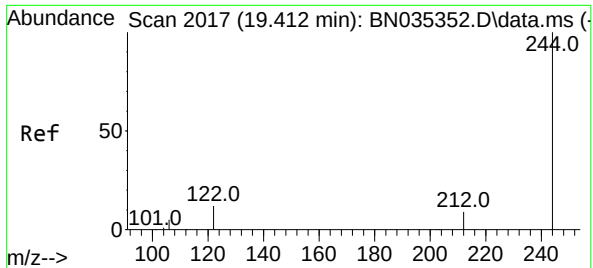
Delta R.T. -0.009 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Tgt Ion:202	Resp:	17165
Ion Ratio	Lower	Upper
202	100	
200	21.0	17.0 25.4
203	17.8	14.3 21.5





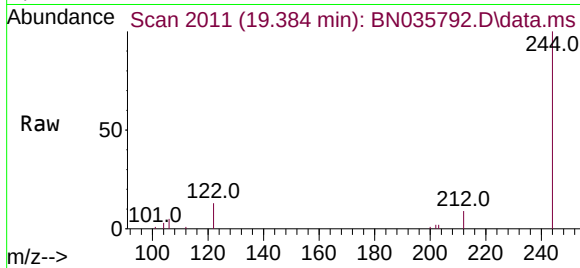
#31
Terphenyl-d14
Concen: 0.409 ng
RT: 19.384 min Scan# 2011
Delta R.T. -0.005 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDC00.4EC

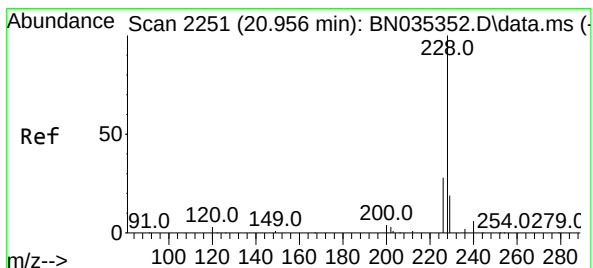
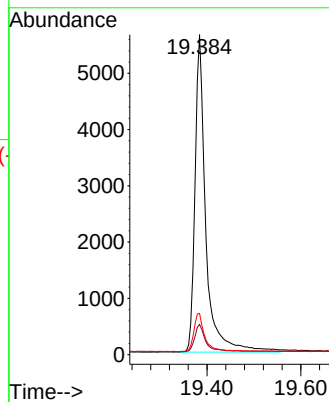
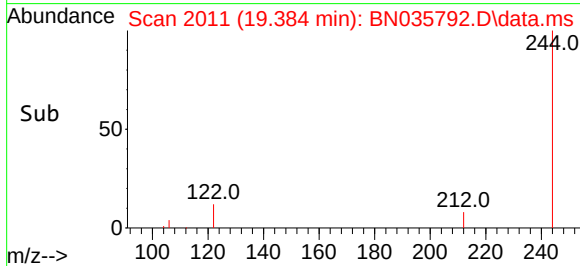


Tgt Ion:244 Resp: 900
Ion Ratio Lower Upper
244 100
212 9.4 8.1 12.1
122 12.9 10.3 15.5

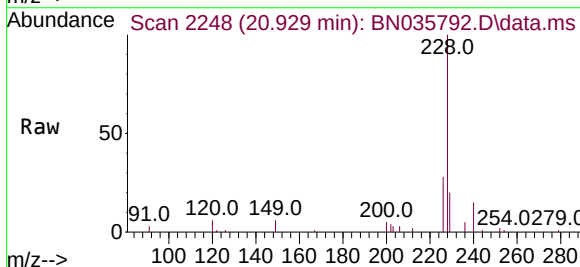
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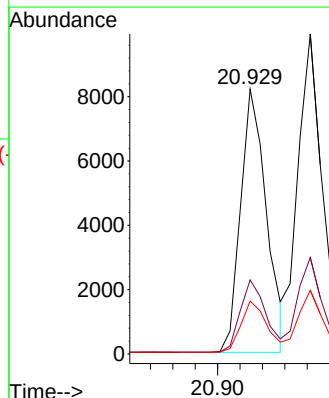
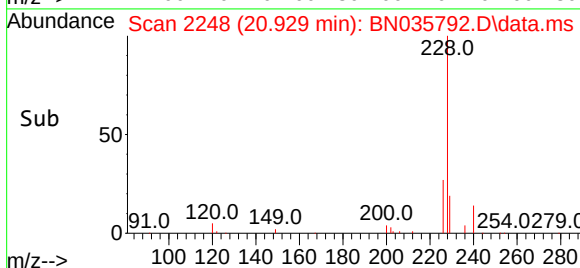
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

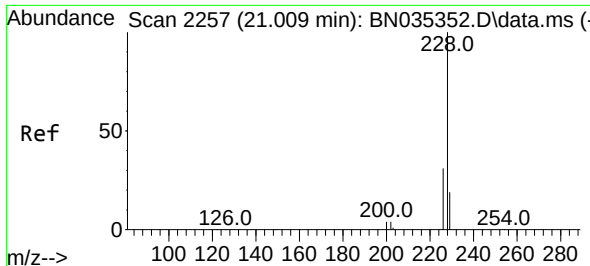


#32
Benzo(a)anthracene
Concen: 0.336 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51



Tgt Ion:228 Resp: 13119
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.415 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:228 Resp: 1671

Ion Ratio Lower Upper

228 100

226 30.1 24.6 37.0

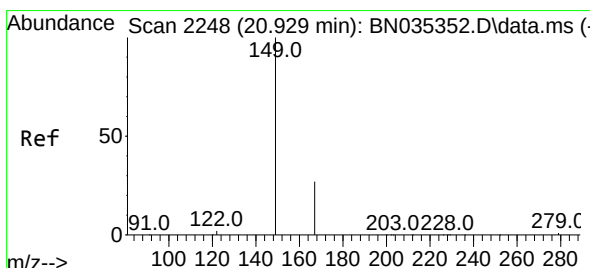
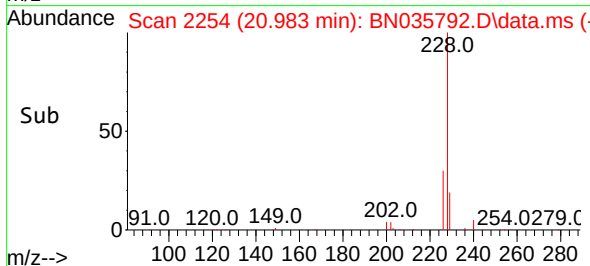
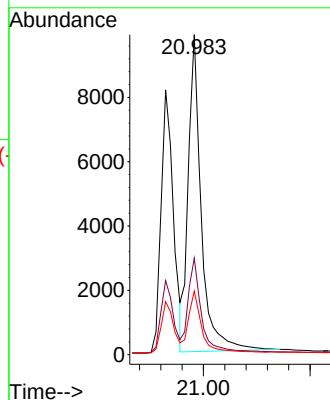
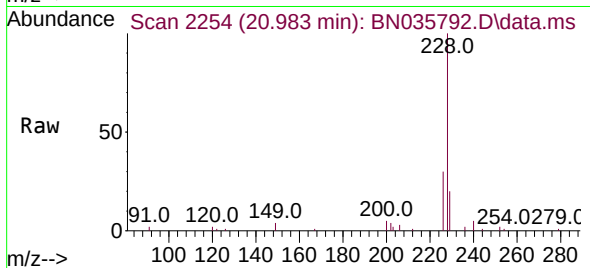
229 19.9 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.408 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

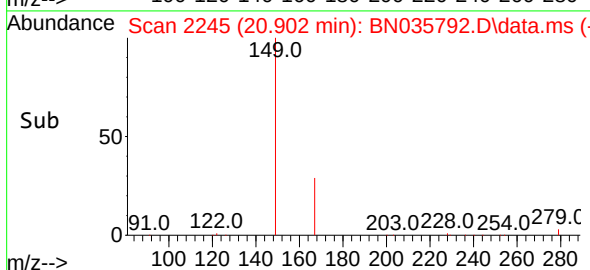
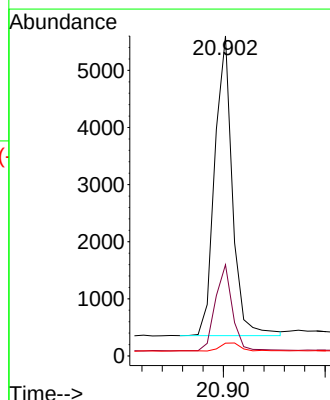
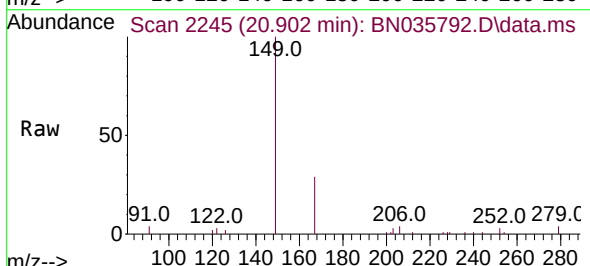
Tgt Ion:149 Resp: 6294

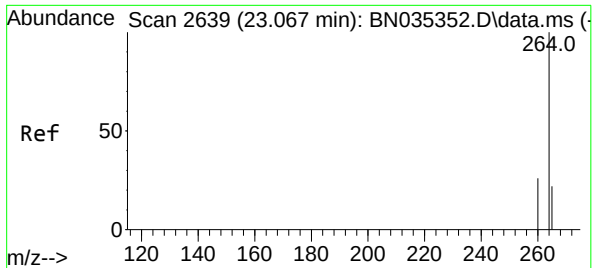
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

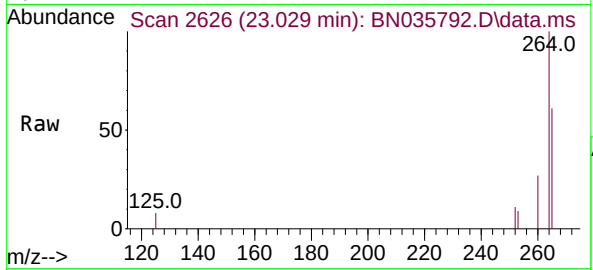
279 3.3 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

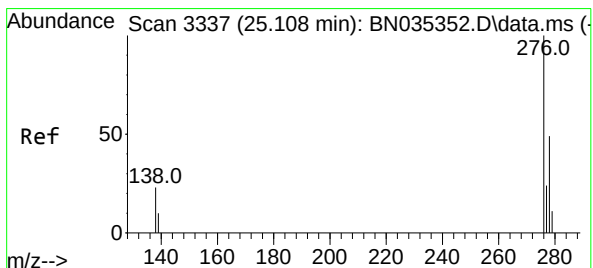
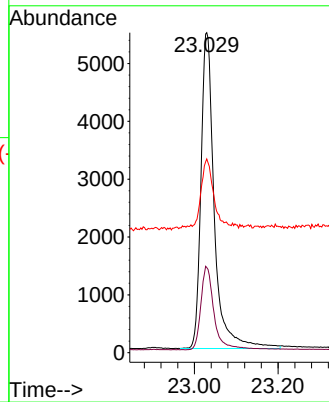
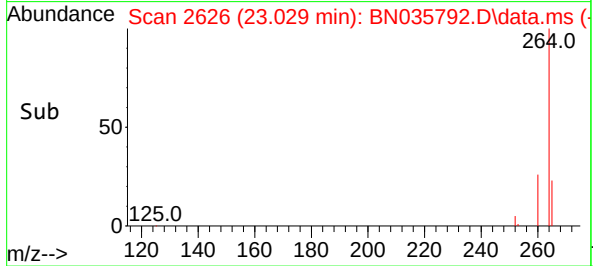
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 1212
Ion Ratio Lower Upper
264 100
260 26.6 21.4 32.2
265 60.5 40.2 60.4

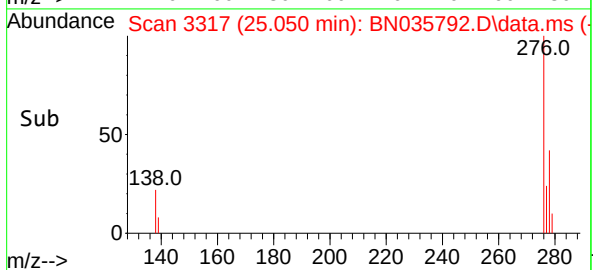
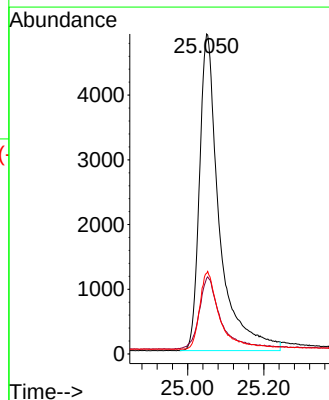
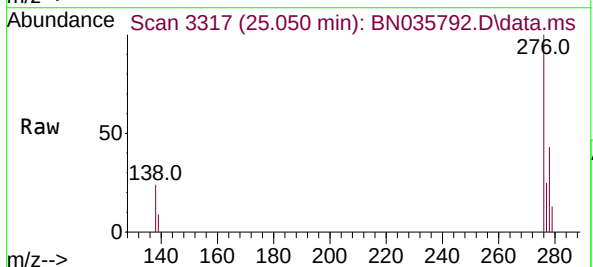
Manual Integrations
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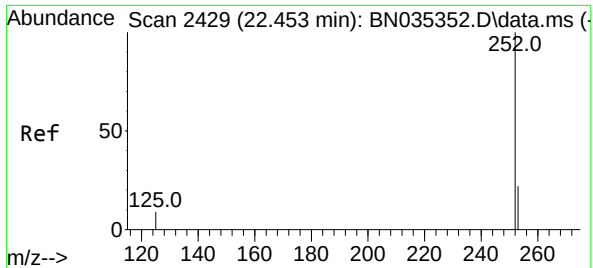
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:276 Resp: 17740
Ion Ratio Lower Upper
276 100
138 23.9 19.4 29.0
277 24.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.539 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

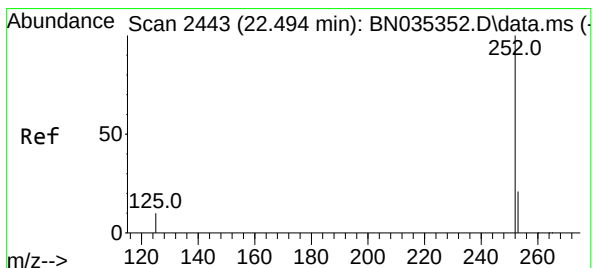
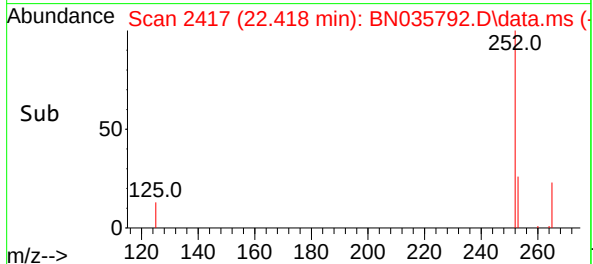
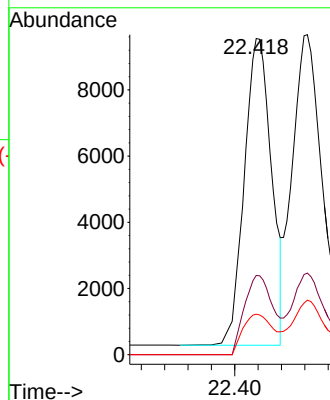
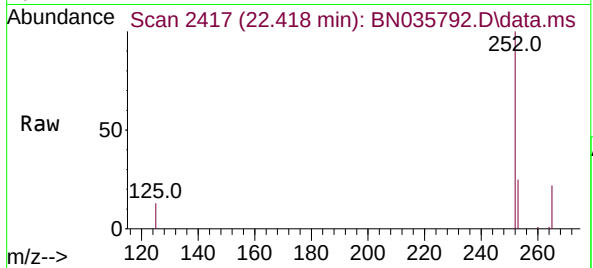
Tgt Ion:	252	Resp:	23904
Ion Ratio	Lower	Upper	
252	100		
253	25.0	19.6	29.4
125	12.8	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.433 ng m

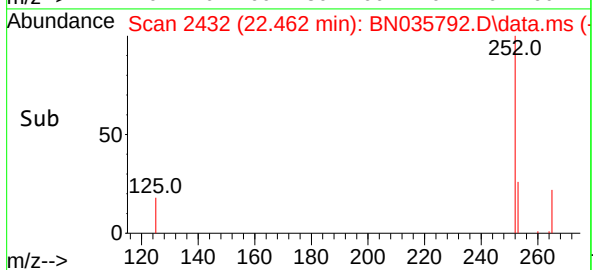
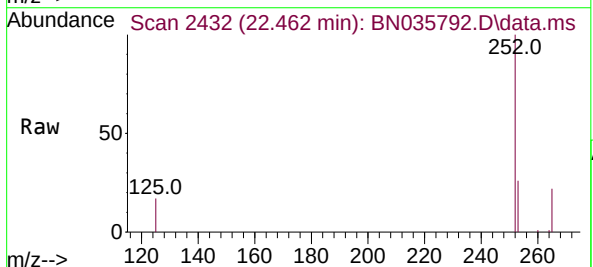
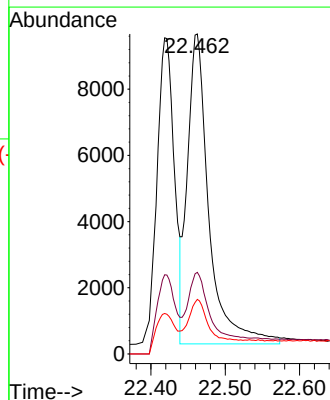
RT: 22.462 min Scan# 2432

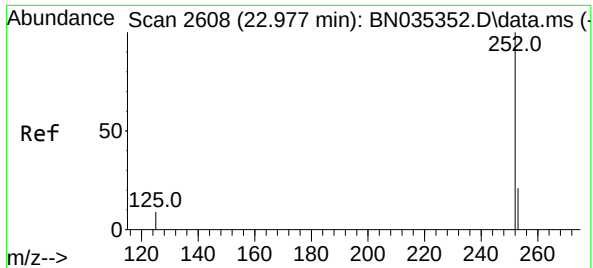
Delta R.T. -0.009 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Tgt Ion:	252	Resp:	18914
Ion Ratio	Lower	Upper	
252	100		
253	25.5	19.5	29.3
125	17.0	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 22.942 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

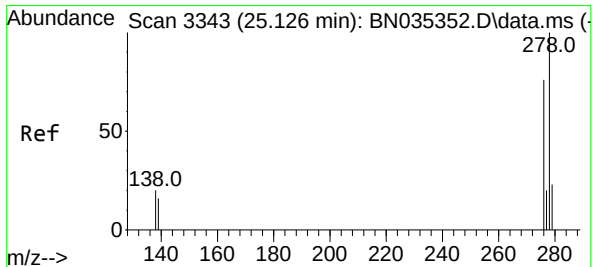
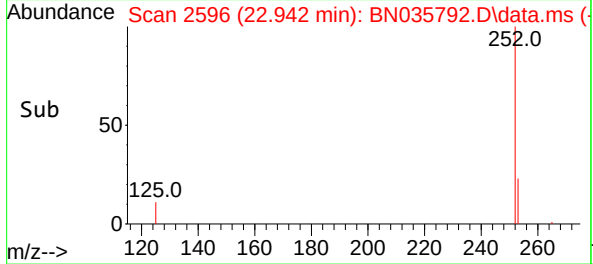
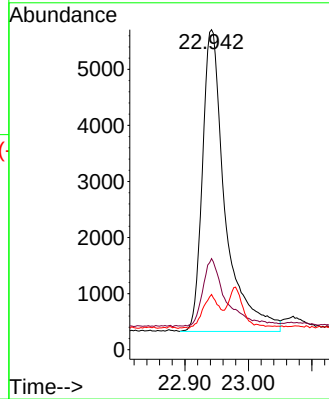
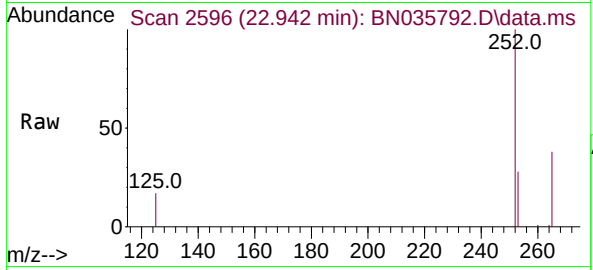
SSTDCCC0.4EC

Tgt Ion:	252	Resp:	1337
Ion Ratio	Lower	Upper	
252	100		
253	28.5	20.2	30.4
125	17.2	10.9	16.3

Manual Integrations
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Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.350 ng

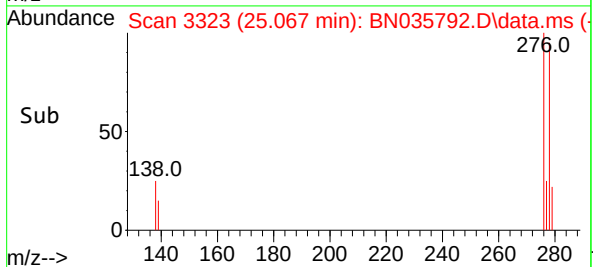
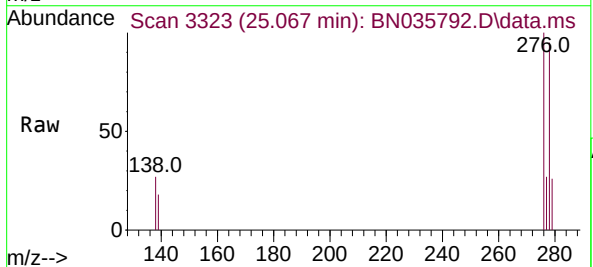
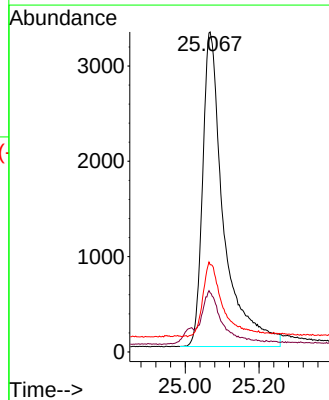
RT: 25.067 min Scan# 3323

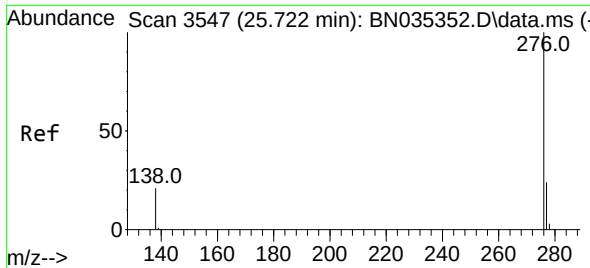
Delta R.T. -0.015 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Tgt Ion:	278	Resp:	13081
Ion Ratio	Lower	Upper	
278	100		
139	18.5	14.2	21.4
279	27.2	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 25.661 min Scan# 31

Delta R.T. -0.018 min

Lab File: BN035792.D

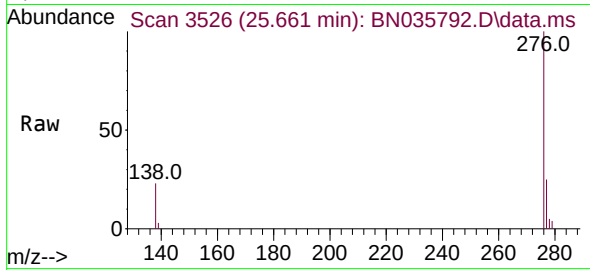
Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 15729

Ion Ratio Lower Upper

276 100

277 25.0 19.9 29.9

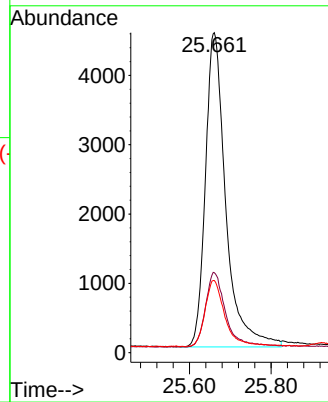
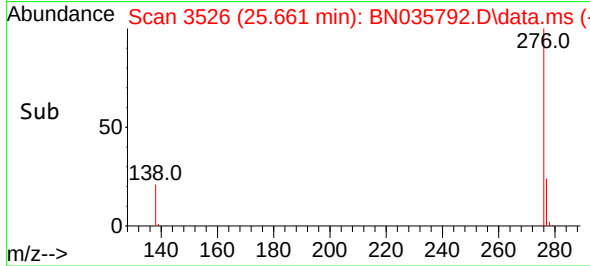
138 22.5 17.8 26.8

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 : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	227#	0.00
2	1,4-Dioxane	0.382	0.383	-0.3	231#	0.00
3	n-Nitrosodimethylamine	0.319	0.312	2.2	217#	0.00
4 S	2-Fluorophenol	1.001	0.954	4.7	213#	0.00
5 S	Phenol-d6	1.204	1.061	11.9	202#	-0.01
6	bis(2-Chloroethyl)ether	1.012	0.886	12.5	203#	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	216#	-0.01
8 S	Nitrobenzene-d5	0.244	0.295	-20.9	272#	-0.01
9	Naphthalene	1.055	1.010	4.3	208#	-0.01
10	Hexachlorobutadiene	0.243	0.264	-8.6	230#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.557	11.0	195#	-0.01
12	2-Methylnaphthalene	0.755	0.646	14.4	189#	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	174#	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.220	22.5	150	-0.01
15 S	2-Fluorobiphenyl	1.512	1.518	-0.4	175#	-0.01
16	Acenaphthylene	1.680	1.557	7.3	170#	-0.01
17	Acenaphthene	1.115	1.064	4.6	171#	-0.01
18	Fluorene	1.596	1.381	13.5	156#	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	142	0.00
20	4,6-Dinitro-2-methylphenol	0.039	0.033	15.4	131	-0.01
21	4-Bromophenyl-phenylether	0.234	0.218	6.8	136	-0.01
22	Hexachlorobenzene	0.275	0.303	-10.2	158#	-0.01
23	Atrazine	0.167	0.152	9.0	140	0.00
24	Pentachlorophenol	0.120	0.096	20.0	142	-0.01
25	Phenanthrene	1.099	1.016	7.6	135	-0.01
26	Anthracene	0.994	0.870	12.5	131	0.00
27 SURR	Fluoranthene-d10	1.134	0.972	14.3	128	0.00
28	Fluoranthene	1.481	1.249	15.7	125	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30	Pyrene	1.477	1.536	-4.0	122	0.00
31 S	Terphenyl-d14	0.789	0.806	-2.2	120	0.00
32	Benzo(a)anthracene	1.399	1.174	16.1	102	0.00
33	Chrysene	1.443	1.496	-3.7	122	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.563	-1.8	128	0.00
35 I	Perylene-d12	1.000	1.000	0.0	112	-0.01
36	Indeno(1,2,3-cd)pyrene	1.564	1.463	6.5	107	-0.02
37	Benzo(b)fluoranthene	1.463	1.972	-34.8#	168#	-0.01
38	Benzo(k)fluoranthene	1.440	1.560	-8.3	124	0.00
39 C	Benzo(a)pyrene	1.205	1.103	8.5	108	0.00
40	Dibenzo(a,h)anthracene	1.234	1.079	12.6	101	-0.01
41	Benzo(g,h,i)perylene	1.289	1.297	-0.6	116	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	227	0.00
2	1,4-Dioxane	0.400	0.400	0.0	231	0.00
3	n-Nitrosodimethylamine	0.400	0.391	2.3	217	0.00
4 S	2-Fluorophenol	0.400	0.381	4.8	213	0.00
5 S	Phenol-d6	0.400	0.352	12.0	202	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.350	12.5	203	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	216	-0.01
8 S	Nitrobenzene-d5	0.400	0.484	-21.0	272	-0.01
9	Naphthalene	0.400	0.383	4.3	208	-0.01
10	Hexachlorobutadiene	0.400	0.433	-8.2	230	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.356	11.0	195	-0.01
12	2-Methylnaphthalene	0.400	0.342	14.5	189	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	174	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.311	22.3	150	-0.01
15 S	2-Fluorobiphenyl	0.400	0.401	-0.3	175	-0.01
16	Acenaphthylene	0.400	0.371	7.3	170	-0.01
17	Acenaphthene	0.400	0.382	4.5	171	-0.01
18	Fluorene	0.400	0.346	13.5	156	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	142	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.334	16.5	131	-0.01
21	4-Bromophenyl-phenylether	0.400	0.372	7.0	136	-0.01
22	Hexachlorobenzene	0.400	0.442	-10.5	158	-0.01
23	Atrazine	0.400	0.366	8.5	140	0.00
24	Pentachlorophenol	0.400	0.321	19.8	142	-0.01
25	Phenanthrene	0.400	0.370	7.5	135	-0.01
26	Anthracene	0.400	0.350	12.5	131	0.00
27 SURR	Fluoranthene-d10	0.400	0.343	14.2	128	0.00
28	Fluoranthene	0.400	0.337	15.8	125	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30	Pyrene	0.400	0.416	-4.0	122	0.00
31 S	Terphenyl-d14	0.400	0.409	-2.2	120	0.00
32	Benzo(a)anthracene	0.400	0.336	16.0	102	0.00
33	Chrysene	0.400	0.415	-3.7	122	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.408	-2.0	128	0.00
35 I	Perylene-d12	0.400	0.400	0.0	112	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.374	6.5	107	-0.02
37	Benzo(b)fluoranthene	0.400	0.539	-34.8#	168	-0.01
38	Benzo(k)fluoranthene	0.400	0.433	-8.2	124	0.00
39 C	Benzo(a)pyrene	0.400	0.366	8.5	108	0.00
40	Dibenzo(a,h)anthracene	0.400	0.350	12.5	101	-0.01
41	Benzo(g,h,i)perylene	0.400	0.402	-0.5	116	-0.02

(#) = Out of Range

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



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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 09:58

Lab File ID: BN035845.D Init. Calib. Date(s): 11/27/2024 11/27/2024

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

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.545		-12.9	20.0
Fluoranthene-d10	1.134	0.991		-12.6	20.0
2-Fluorophenol	1.001	1.006		0.5	20.0
Phenol-d6	1.204	1.112		-7.6	20.0
Nitrobenzene-d5	0.244	0.298		22.1	20.0
2-Fluorobiphenyl	1.512	1.504		-0.5	20.0
2,4,6-Tribromophenol	0.284	0.248		-12.7	20.0
Terphenyl-d14	0.789	0.784		-0.6	20.0
1,4-Dioxane	0.382	0.405		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035845.D
 Acq On : 26 Dec 2024 09:58
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:11 2024

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9932	0.400	ng	#-0.02
35) Perylene-d12	23.021	264	10817	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3777	0.402	ng	-0.01
5) Phenol-d6	6.470	99	4175	0.369	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2776m	0.488	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	5080	0.348	ng	-0.02
14) 2,4,6-Tribromophenol	15.432	330	1338	0.350	ng	-0.02
15) 2-Fluorobiphenyl	12.523	172	8104	0.398	ng	-0.02
27) Fluoranthene-d10	18.743	212	11161	0.350	ng	-0.02
31) Terphenyl-d14	19.375	244	7783	0.397	ng	-0.01
Target Compounds						
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 12/30/2024

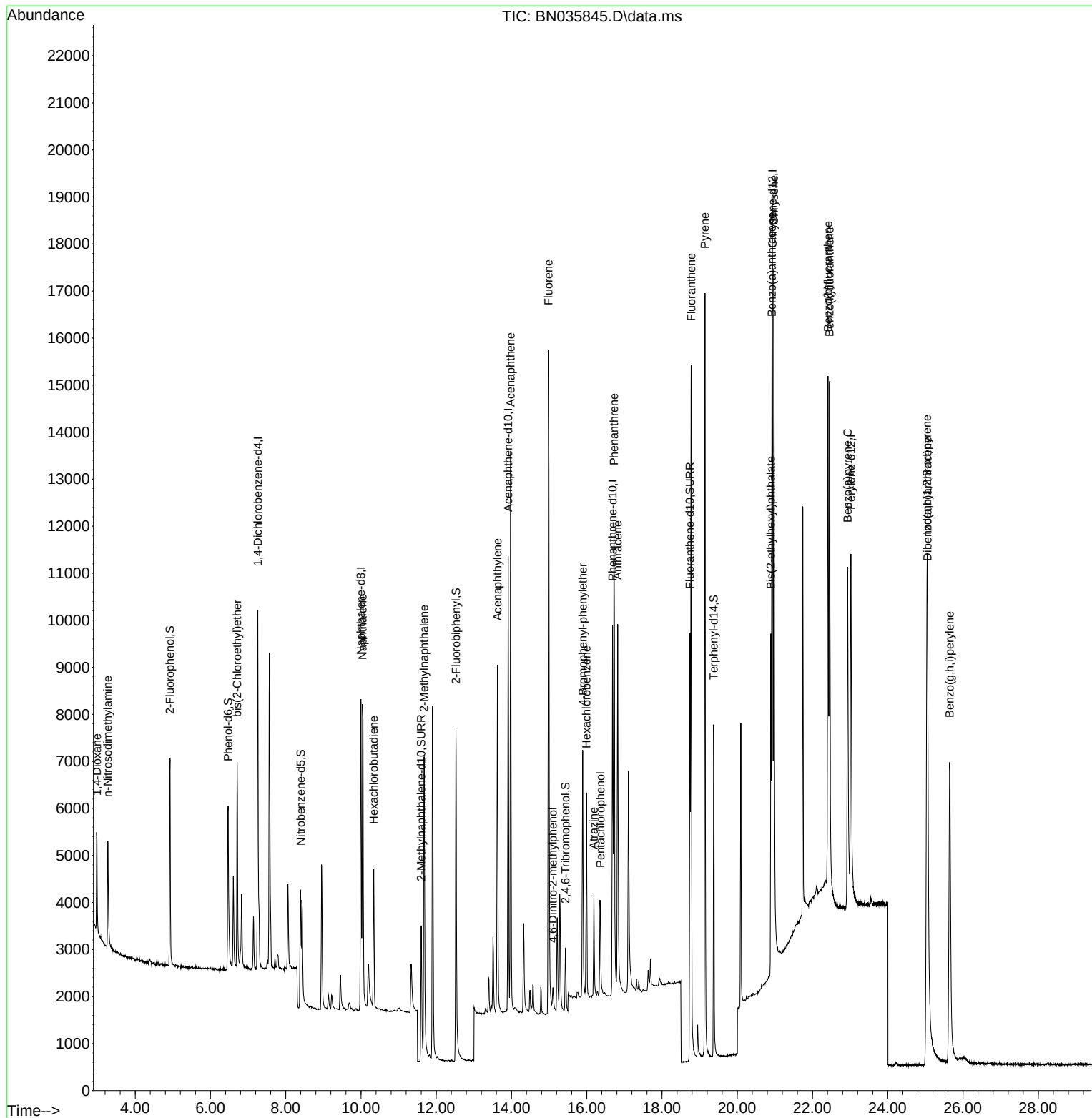
Quant Time: Dec 27 00:40:11 2024

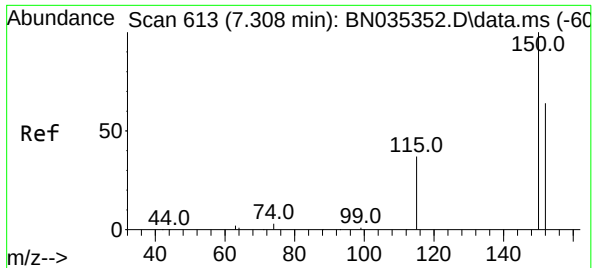
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

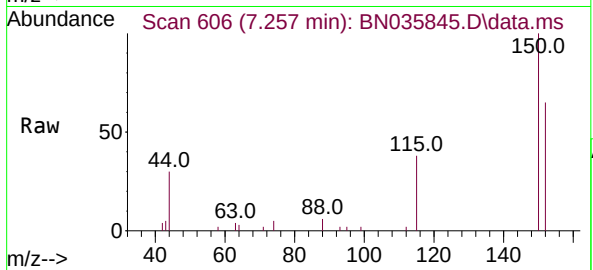
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

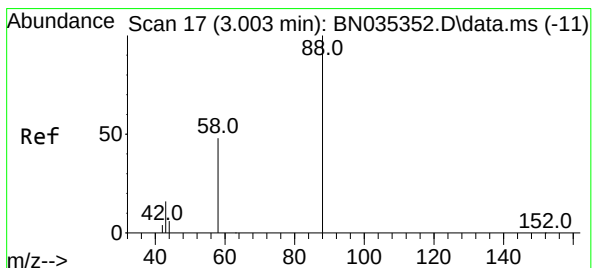
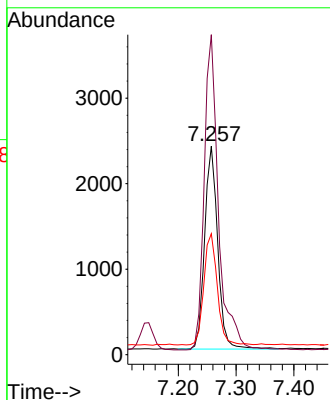
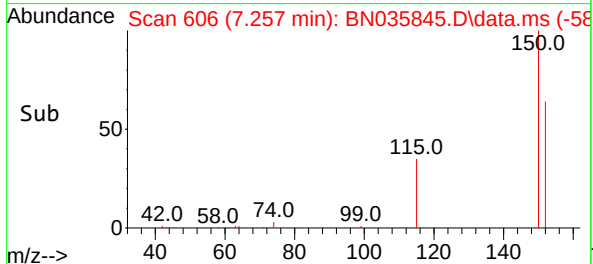
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



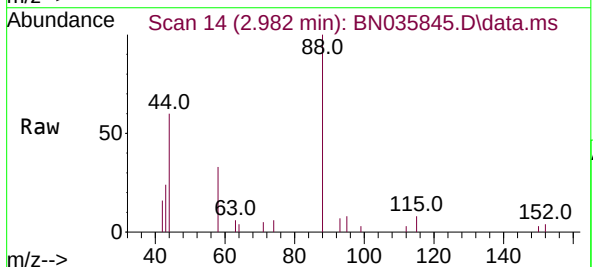
Tgt Ion: 152 Resp: 375
Ion Ratio Lower Upper
152 100
150 153.5 124.0 186.0
115 58.0 49.6 74.4

Manual Integrations
APPROVED

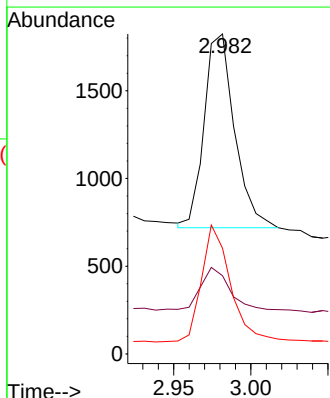
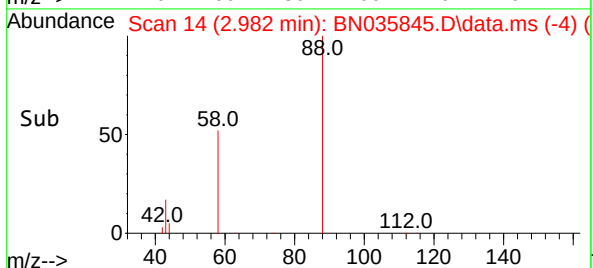
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

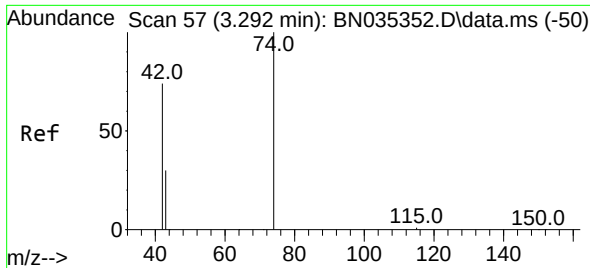


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



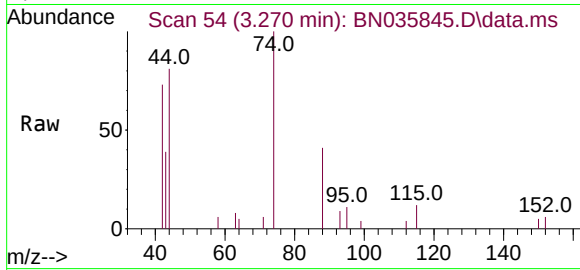
Tgt Ion: 88 Resp: 1520
Ion Ratio Lower Upper
88 100
43 19.9 17.2 25.8
58 57.5 44.5 66.7





#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

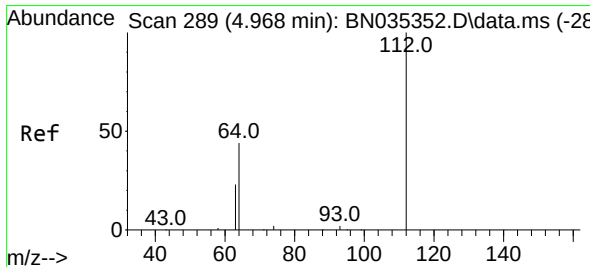
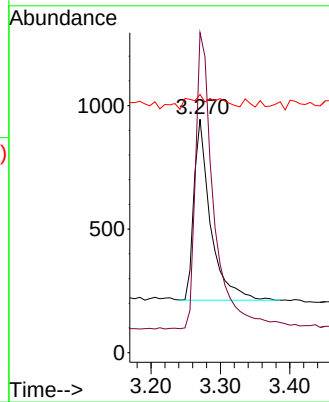
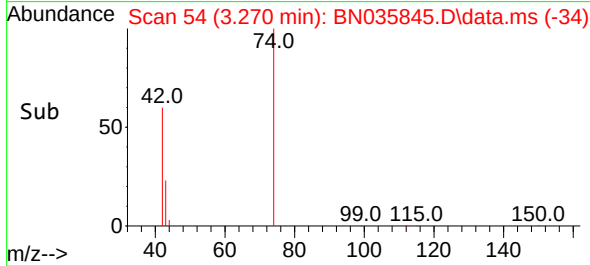
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

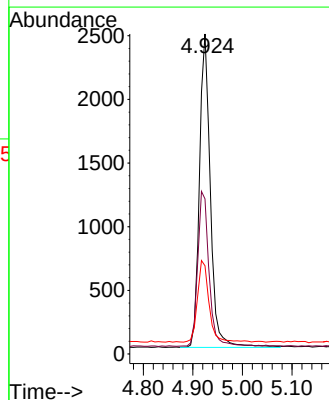
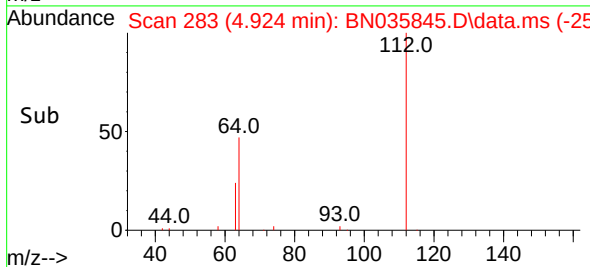
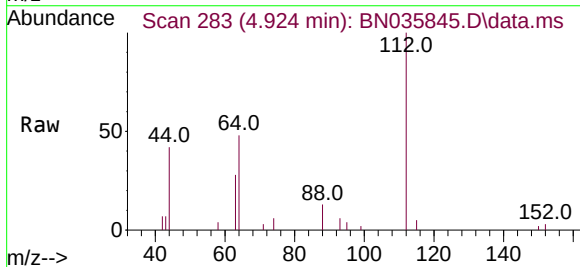
Manual Integrations
APPROVED

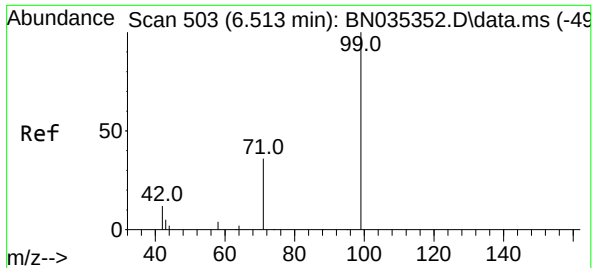
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 27.5 21.0 31.6





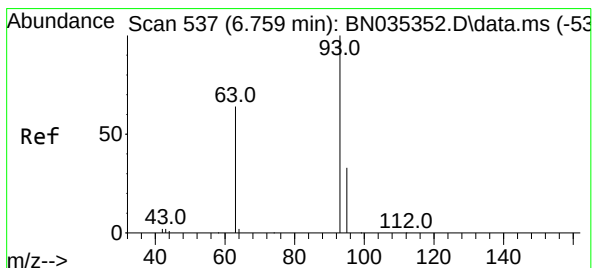
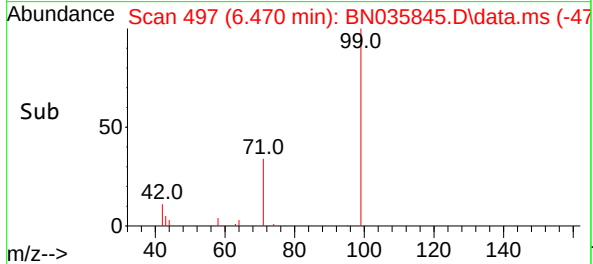
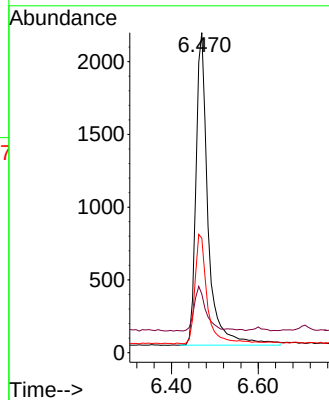
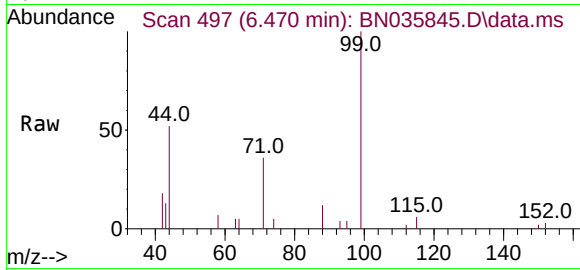
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.0	11.4	17.2
71	35.3	29.3	43.9

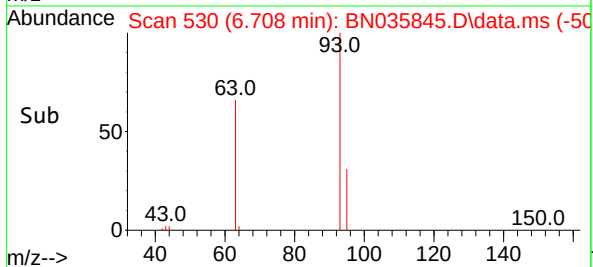
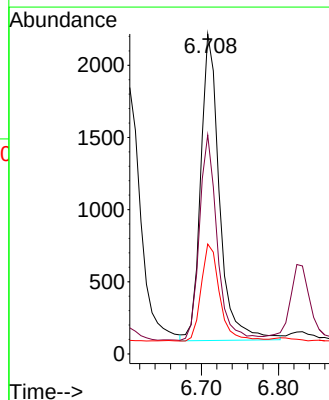
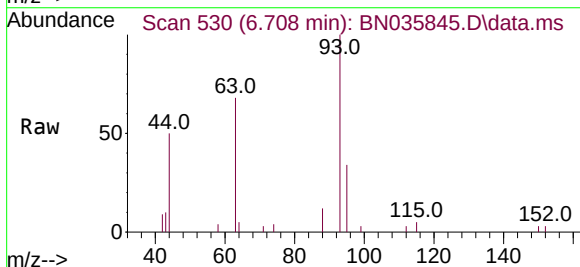
Manual Integrations
APPROVED

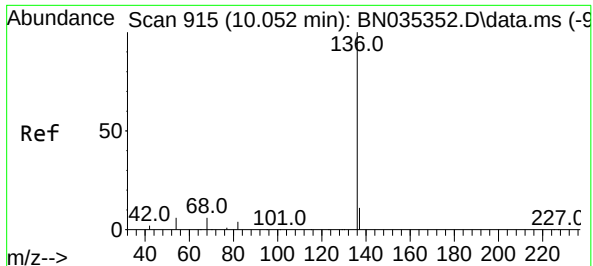
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	31.3	25.7	38.5





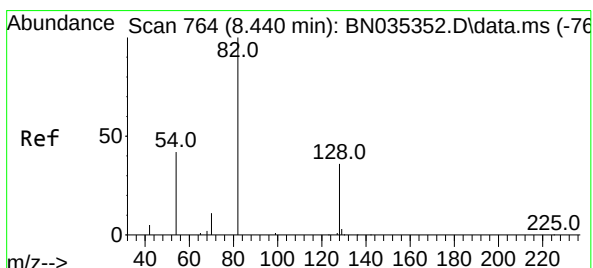
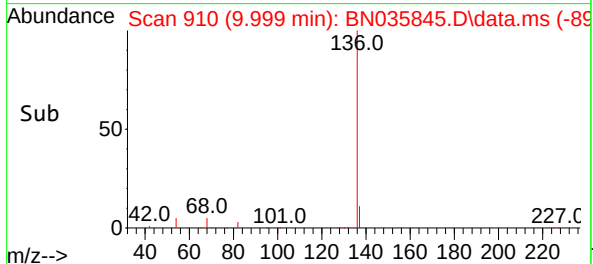
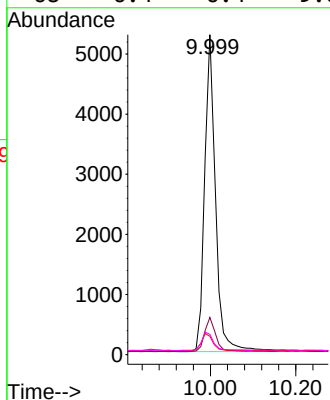
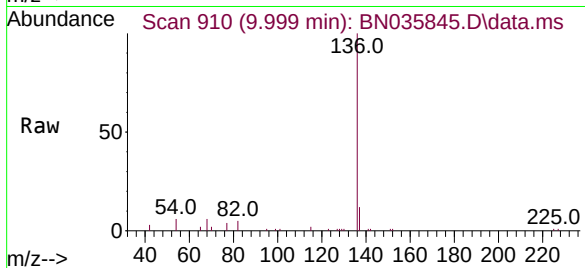
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.8	6.1	9.1
68	6.4	6.4	9.6

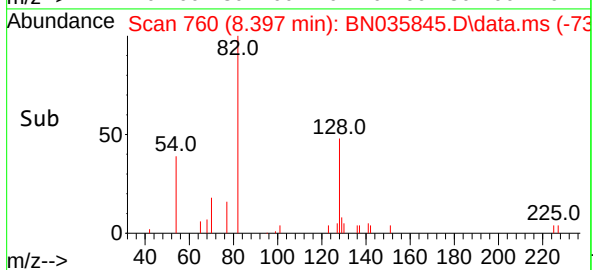
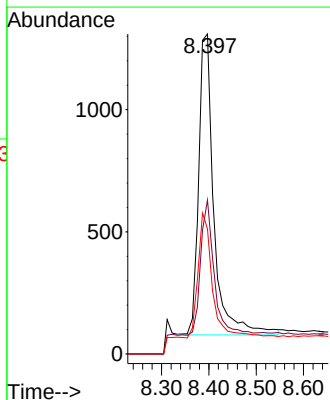
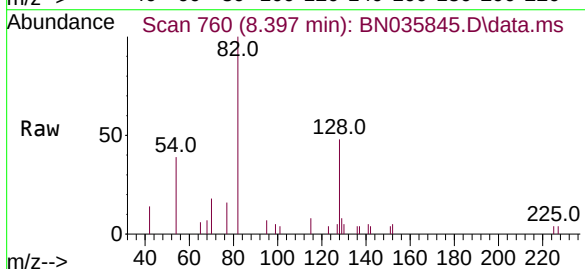
Manual Integrations
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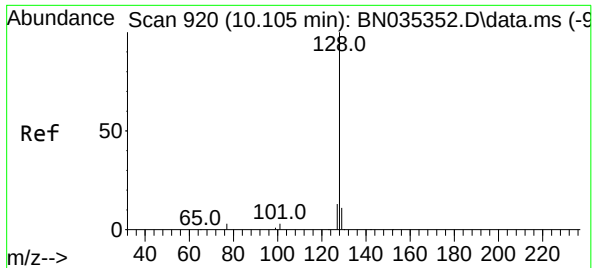
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#8
Nitrobenzene-d5
Concen: 0.488 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.1	33.4	50.0
54	39.1	36.7	55.1





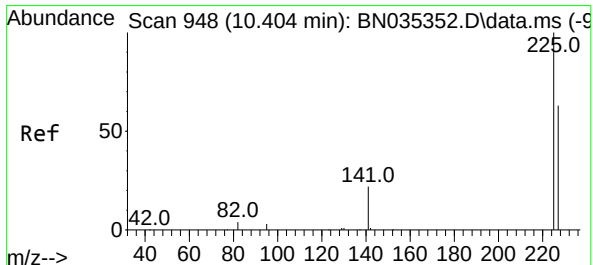
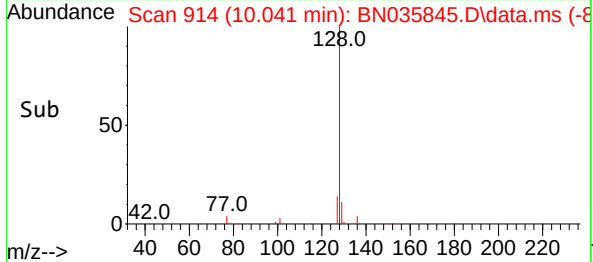
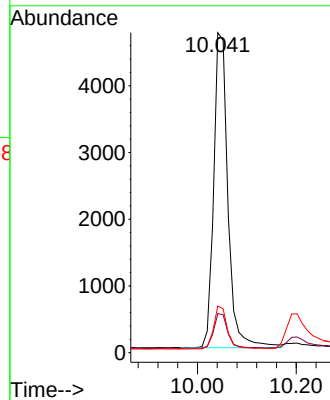
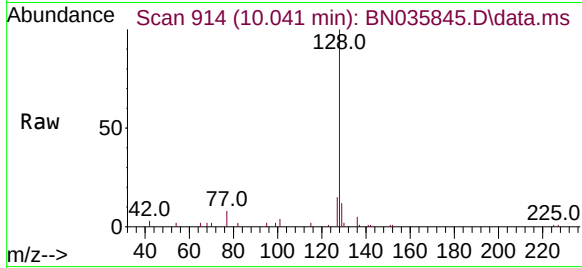
#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 9440
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.6 11.4 17.2

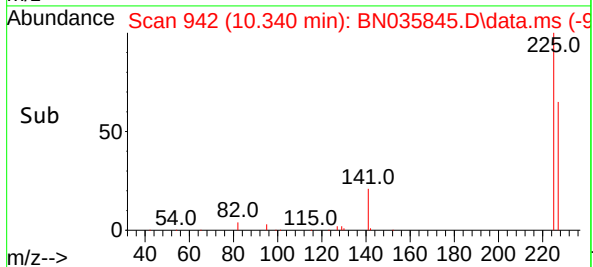
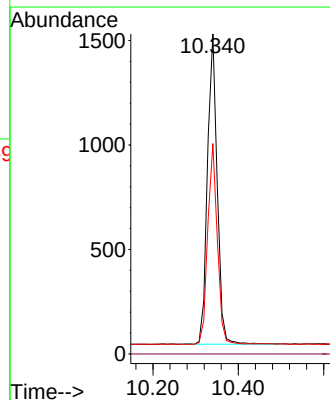
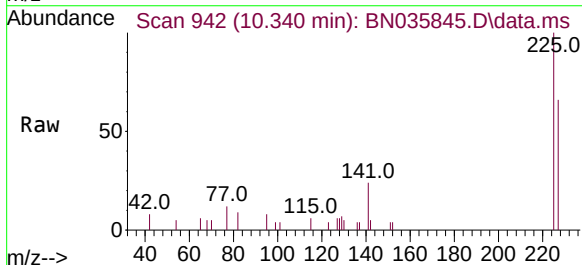
Manual Integrations
APPROVED

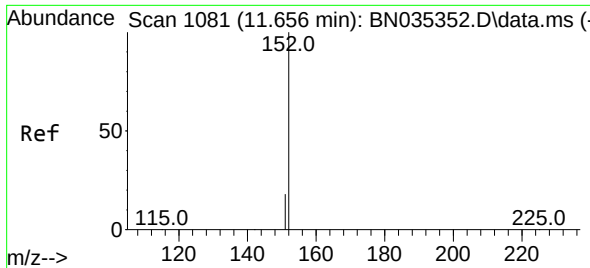
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

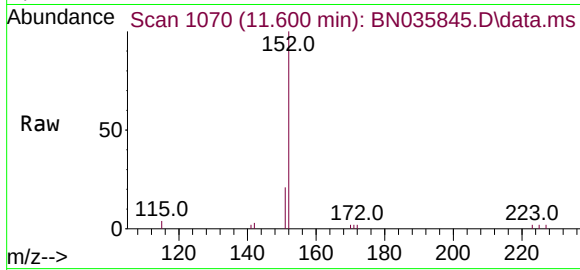
Tgt Ion:225 Resp: 2352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

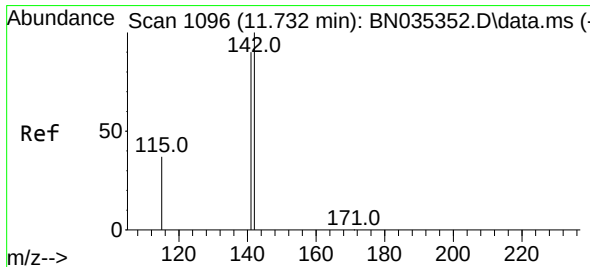
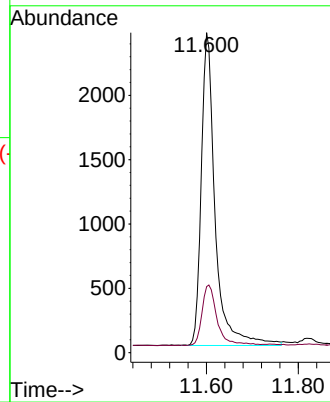
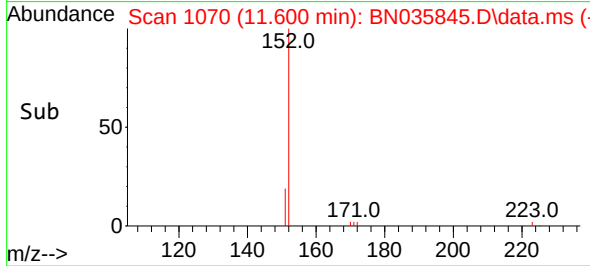
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4



Tgt Ion:152 Resp: 5080
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0

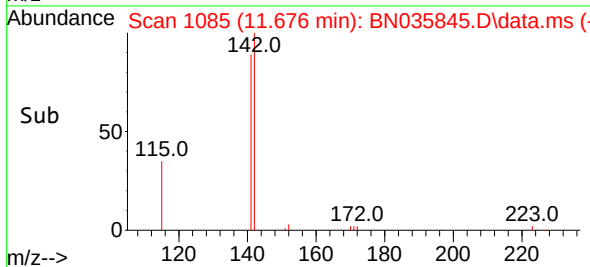
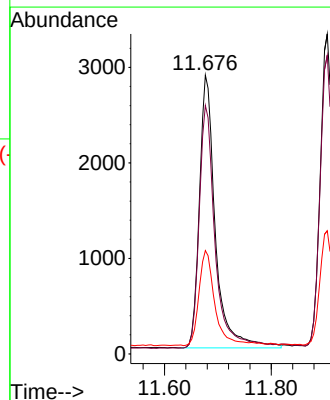
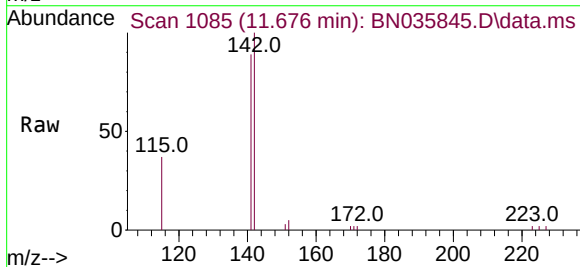
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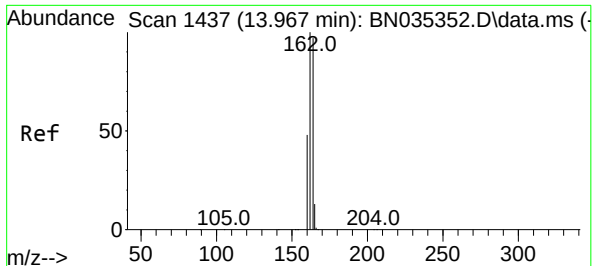
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

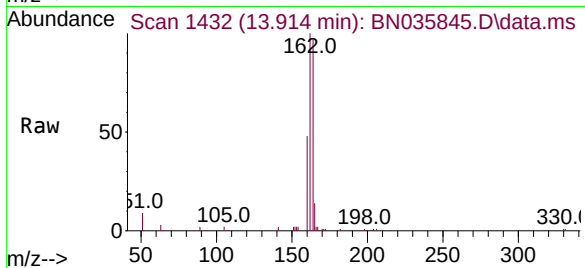
Tgt Ion:142 Resp: 5939
Ion Ratio Lower Upper
142 100
141 89.1 72.2 108.4
115 37.1 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

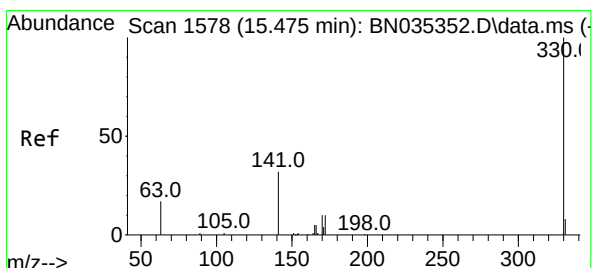
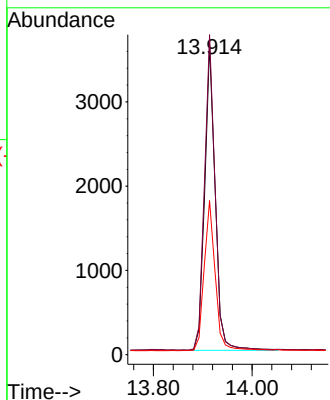
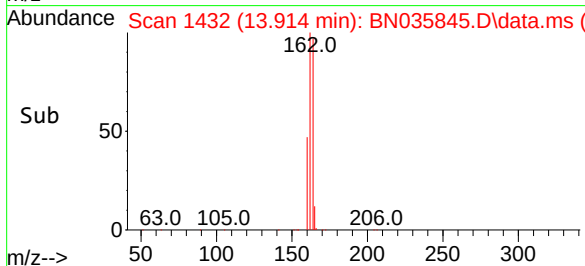
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



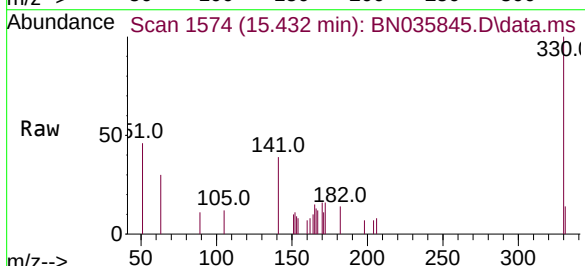
Tgt Ion:164 Resp: 538
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.2
160 49.7 40.1 60.1

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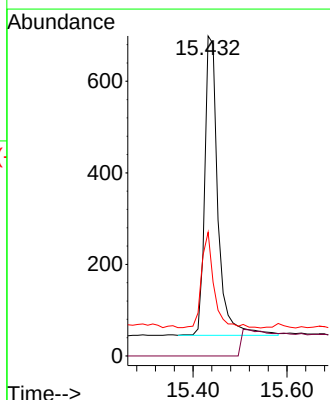
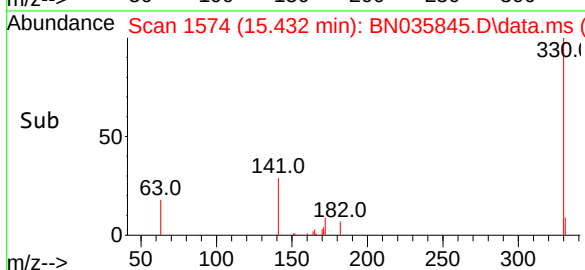
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

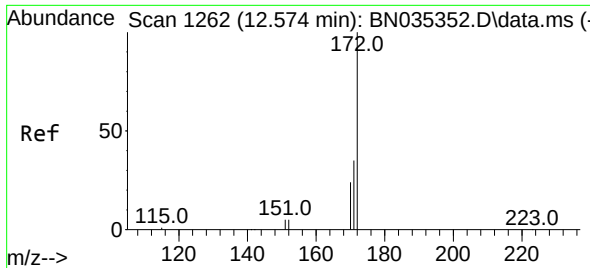


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



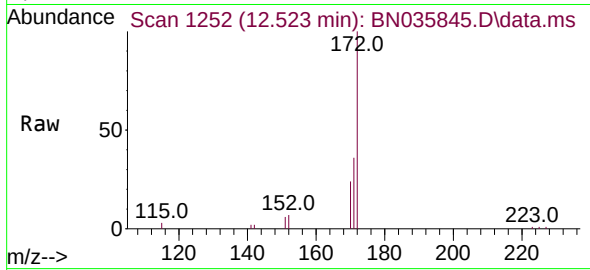
Tgt Ion:330 Resp: 1338
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.7 26.6 40.0





#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

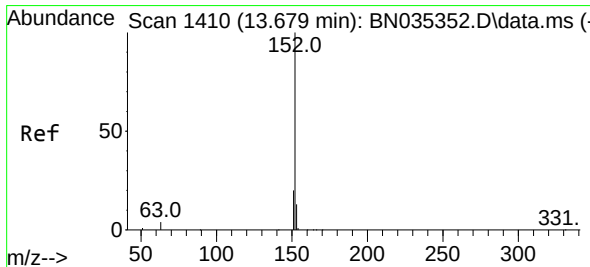
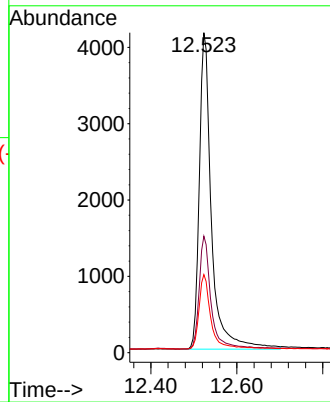
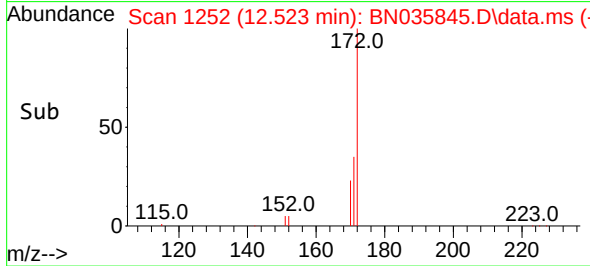
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



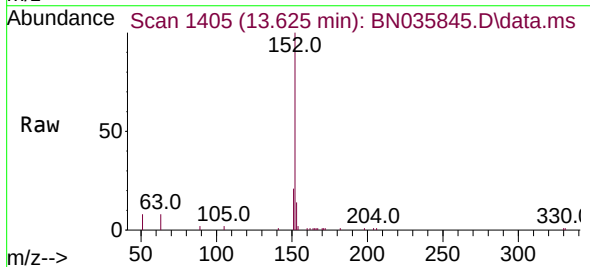
Tgt Ion:172 Resp: 8104
Ion Ratio Lower Upper
172 100
171 36.4 29.0 43.4
170 24.4 19.8 29.8

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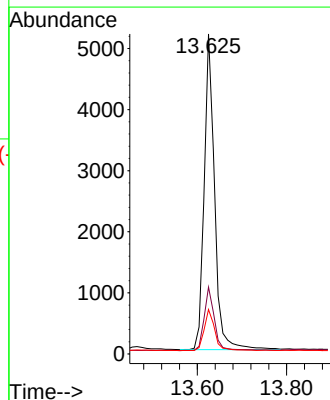
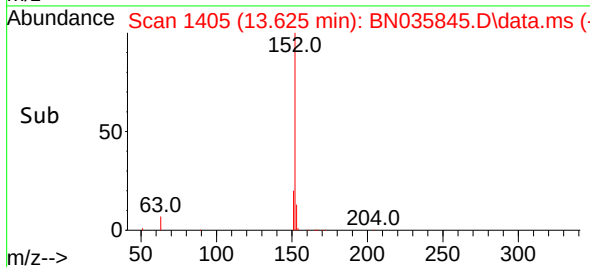
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

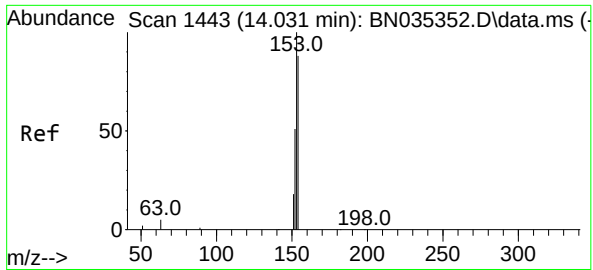


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58



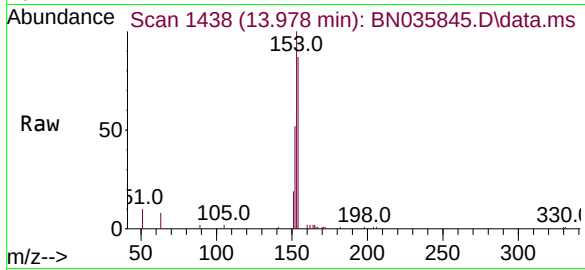
Tgt Ion:152 Resp: 8340
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.2 10.4 15.6





#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

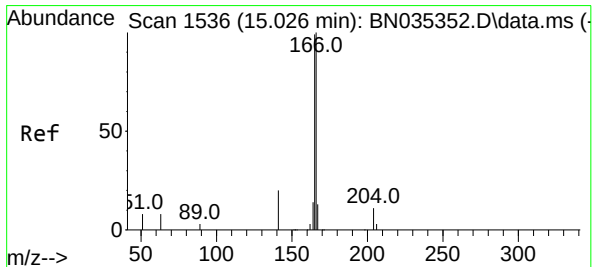
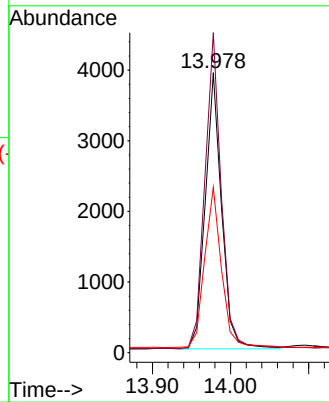
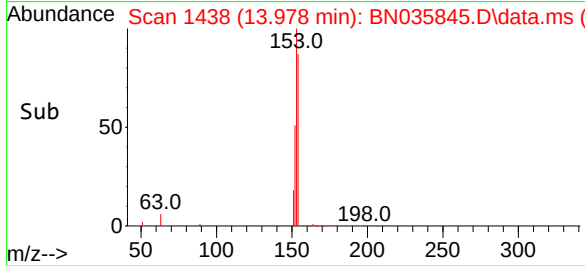
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



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

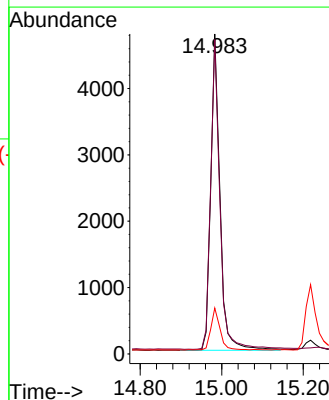
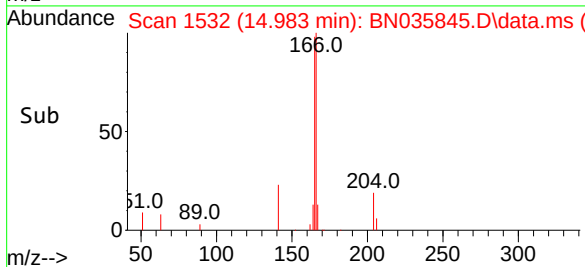
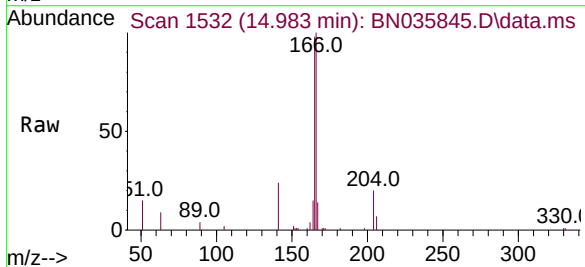
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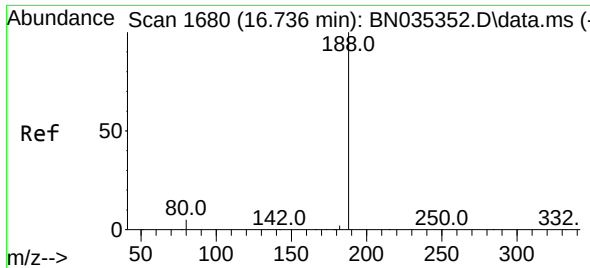
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

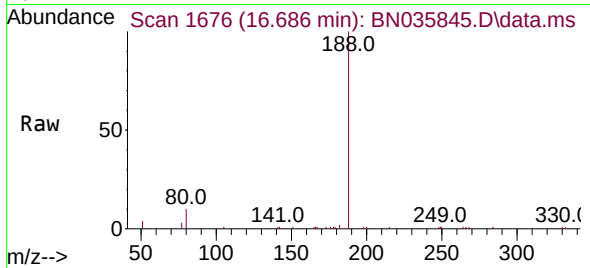
Tgt Ion:166 Resp: 7523
Ion Ratio Lower Upper
166 100
165 98.0 79.7 119.5
167 13.4 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1126
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

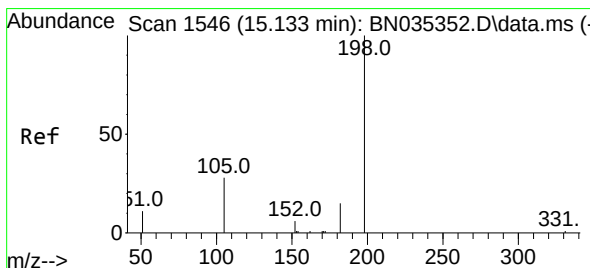
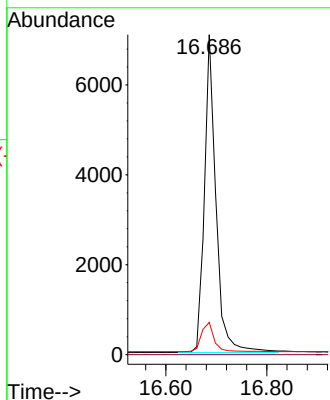
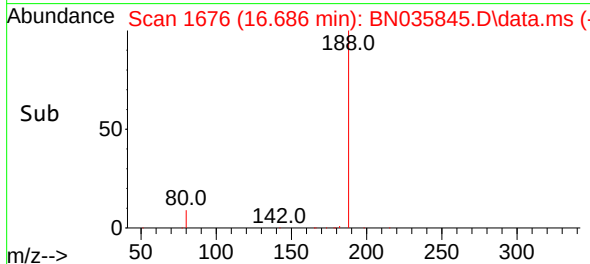
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:188 Resp: 1126
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.1 4.6 6.8

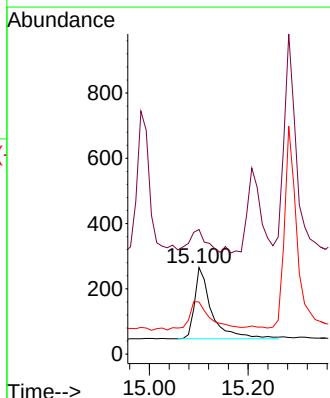
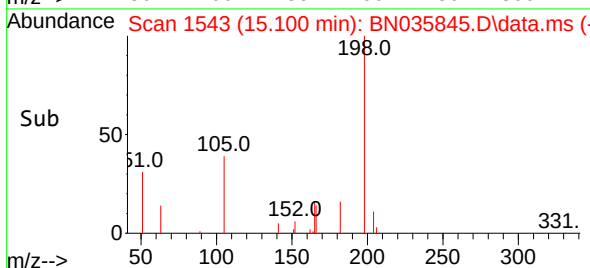
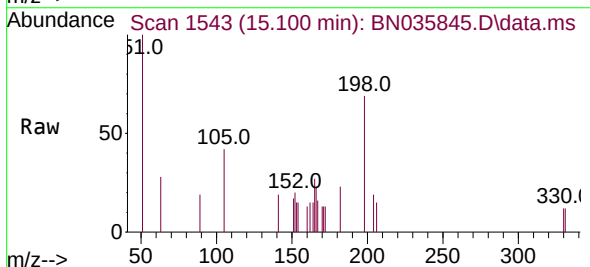
Manual Integrations
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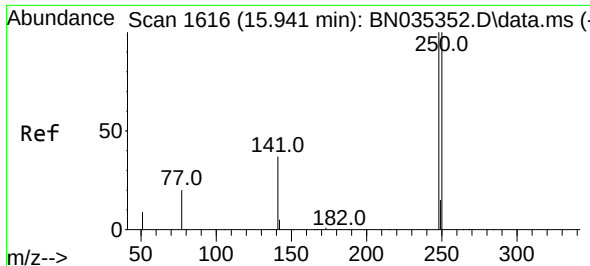
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:198 Resp: 526
Ion Ratio Lower Upper
198 100
51 144.2 46.5 69.7#
105 60.4 45.3 67.9





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

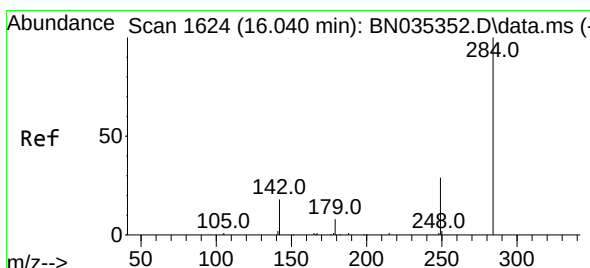
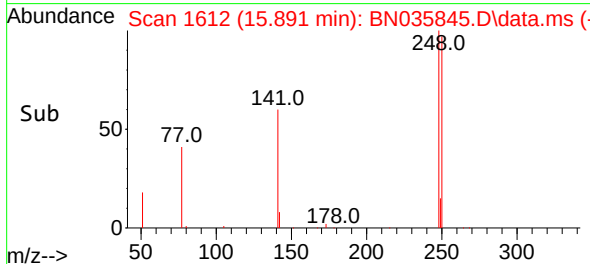
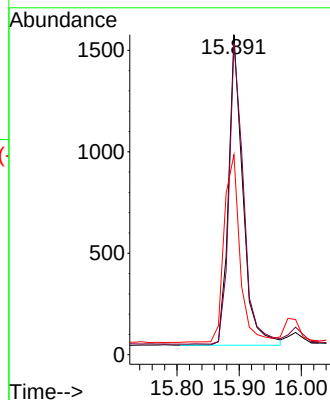
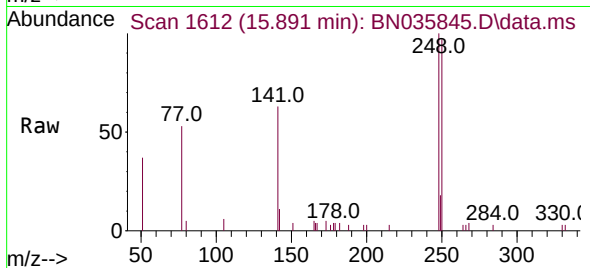
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.3	80.6	120.8
141	62.5	31.5	47.3

Manual Integrations

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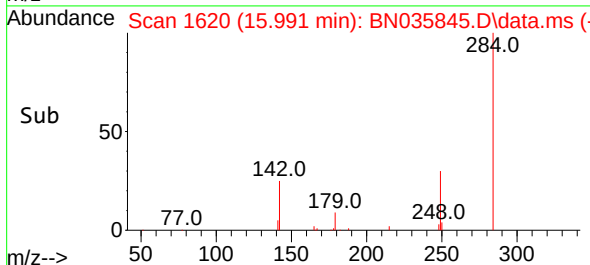
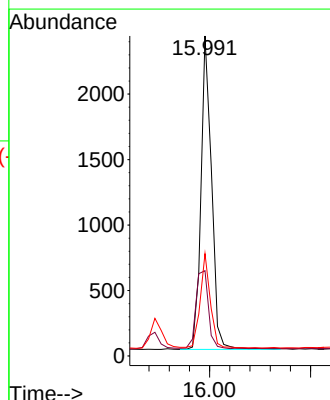
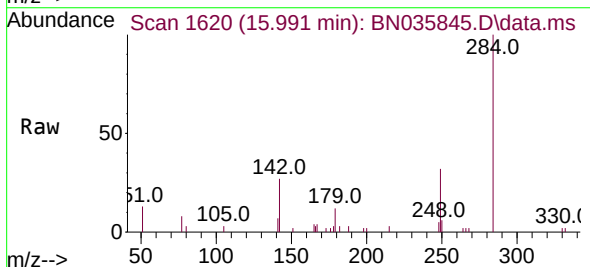
Reviewed By :Yogesh Patel 12/27/2024

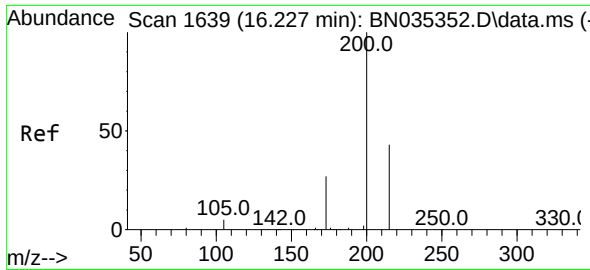
Supervised By :mohammad ahmed 12/30/2024



#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	28.9	24.6	36.8





#23

Atrazine

Concen: 0.393 ng

RT: 16.189 min Scan# 1636

Delta R.T. -0.013 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

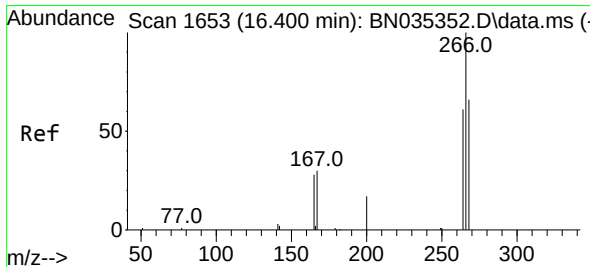
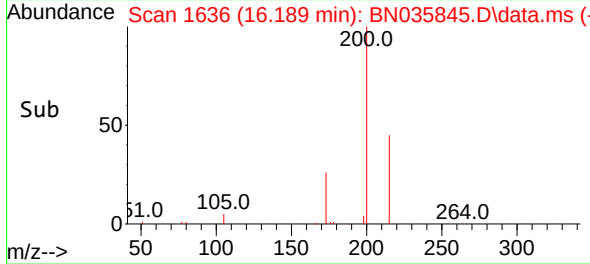
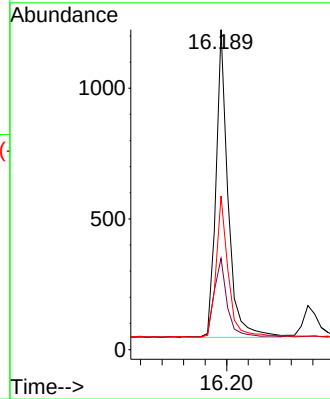
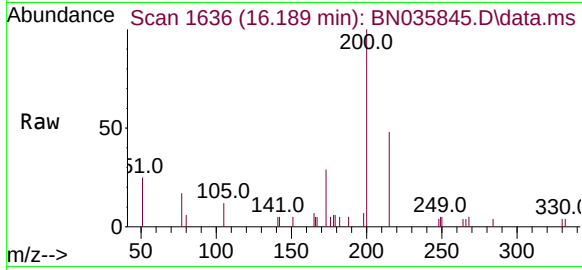
ClientSampleId :

SSTDC0.4

Tgt Ion:200	Resp:	184
Ion Ratio	Lower	Upper
200	100	
173	28.5	24.1 36.1
215	48.0	36.9 55.3

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



#24

Pentachlorophenol

Concen: 0.411 ng

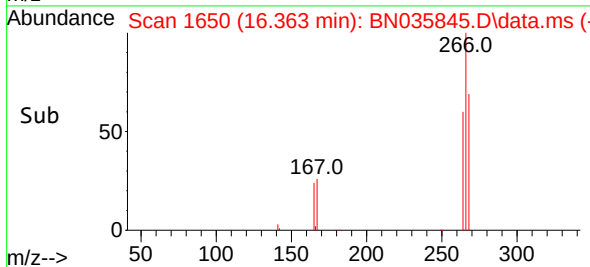
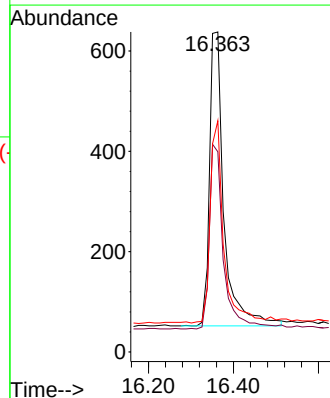
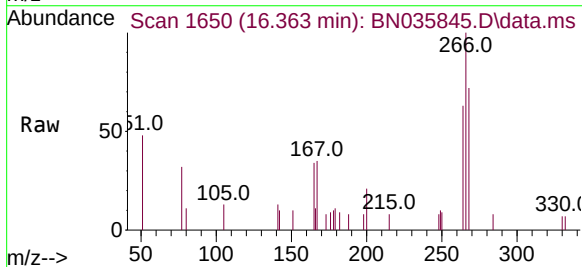
RT: 16.363 min Scan# 1650

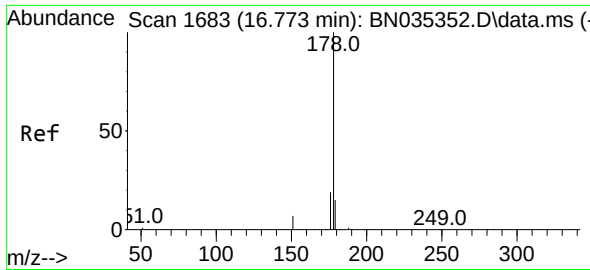
Delta R.T. -0.013 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Tgt Ion:266	Resp:	1383
Ion Ratio	Lower	Upper
266	100	
264	61.3	42.3 63.5
268	63.8	43.3 64.9





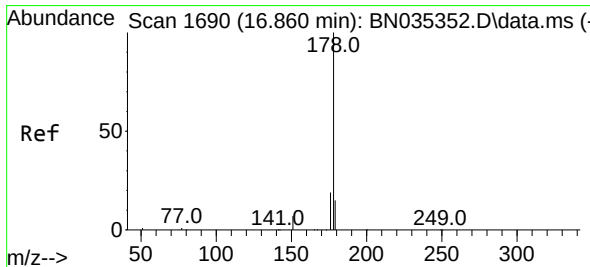
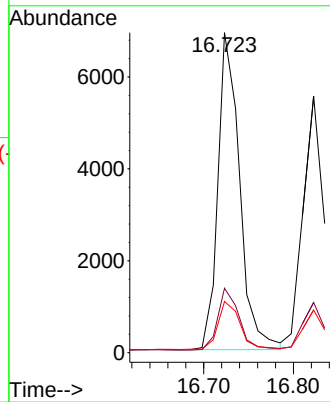
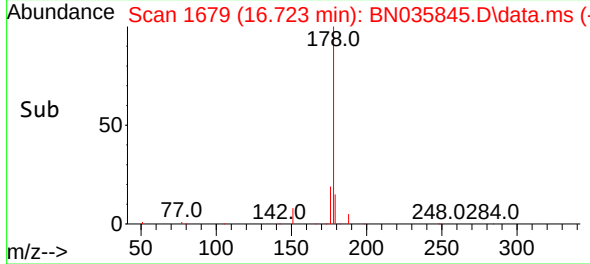
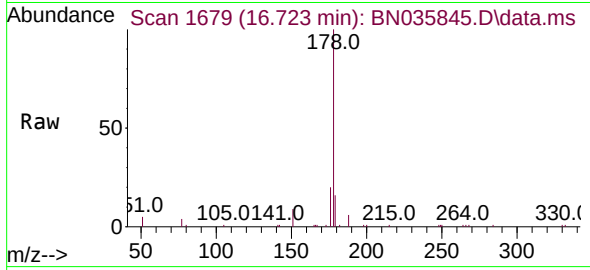
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 1160
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.7 12.3 18.5

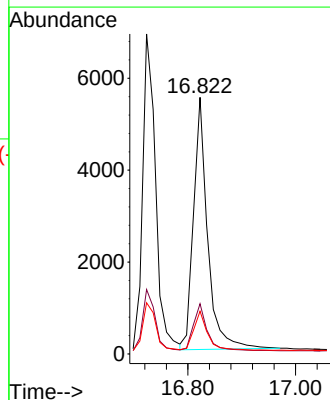
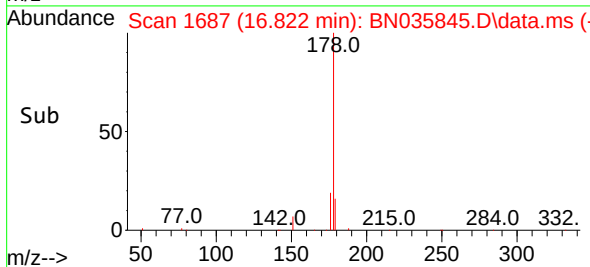
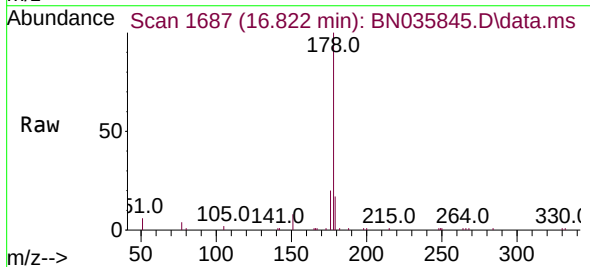
Manual Integrations
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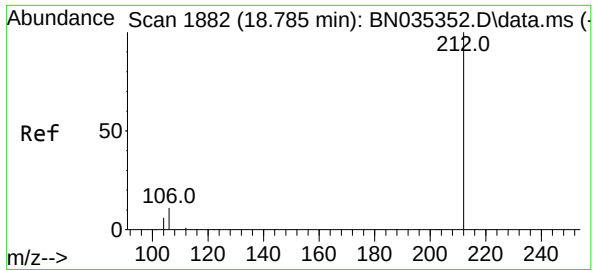
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#26
Anthracene
Concen: 0.358 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 :

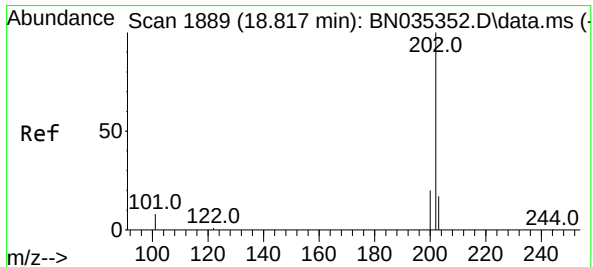
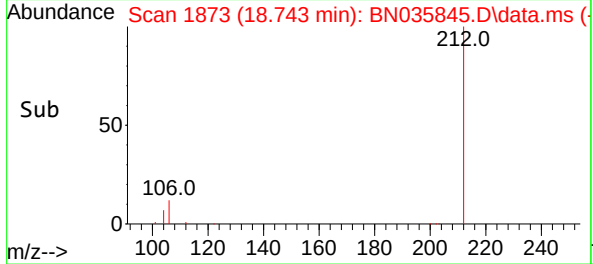
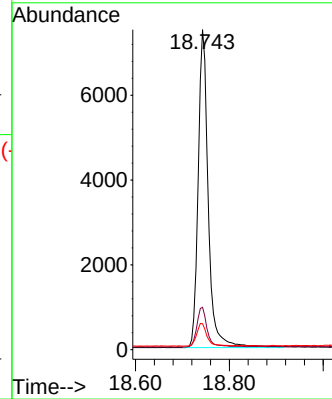
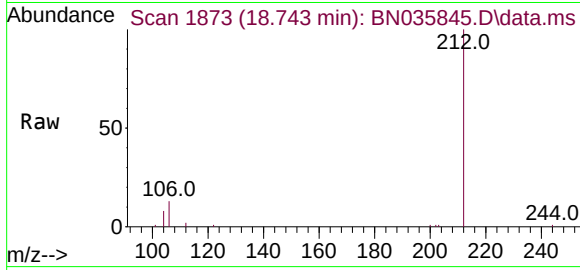
SSTDCCC0.4

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 12/30/2024



#28

Fluoranthene

Concen: 0.347 ng

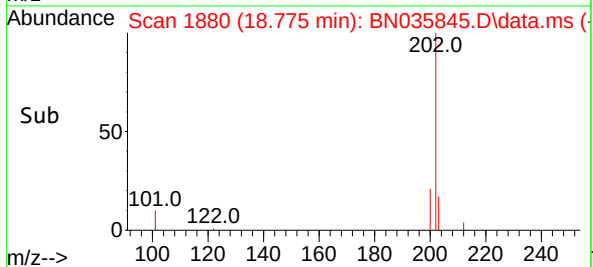
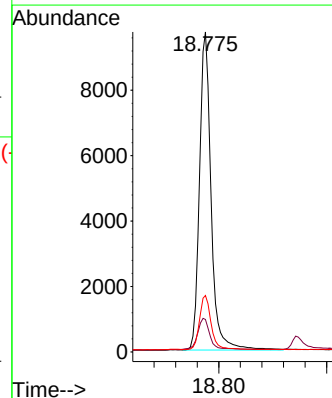
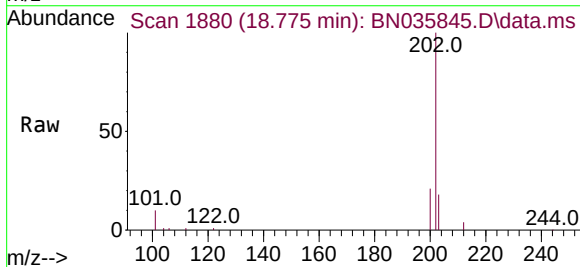
RT: 18.775 min Scan# 1880

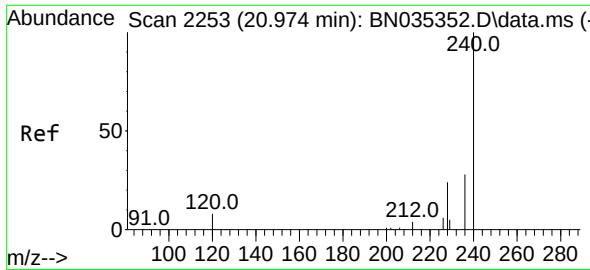
Delta R.T. -0.014 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

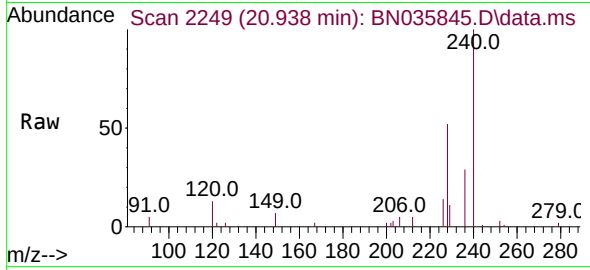
Tgt Ion:	202	Resp:	14489
Ion Ratio	Lower	Upper	
202	100		
101	10.7	7.4	11.0
203	17.0	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

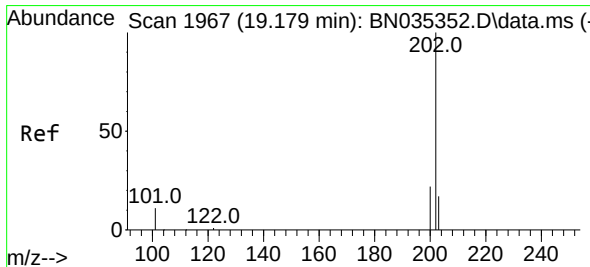
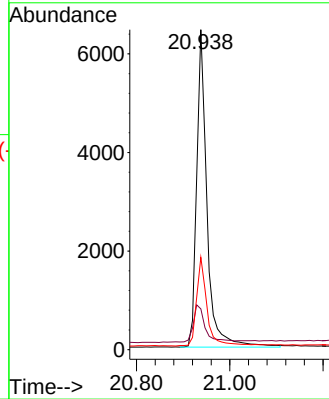
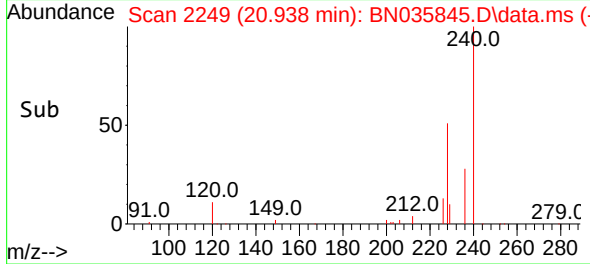
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:240 Resp: 993
Ion Ratio Lower Upper
240 100
120 12.7 7.9 11.9
236 28.9 22.9 34.3

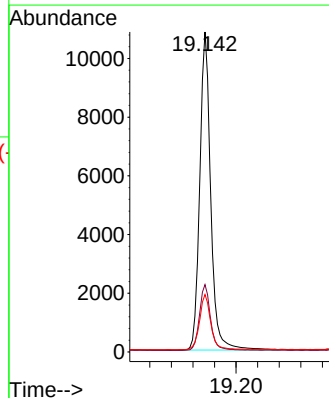
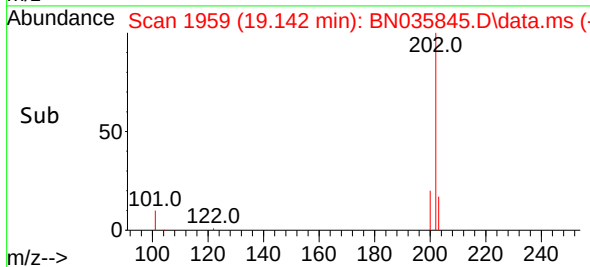
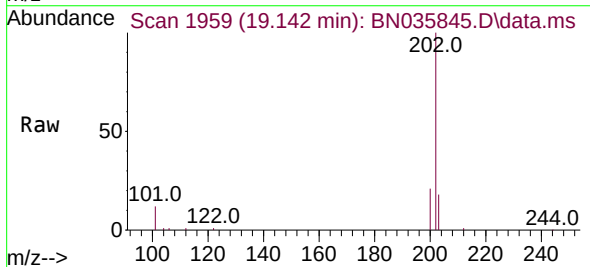
Manual Integrations
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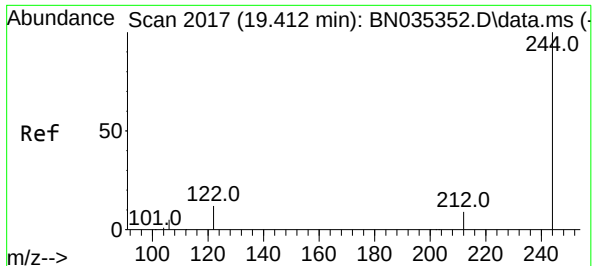
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.9 14.3 21.5





#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

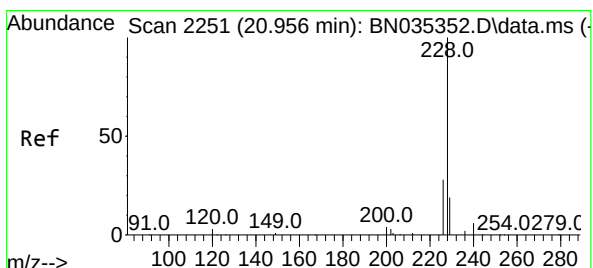
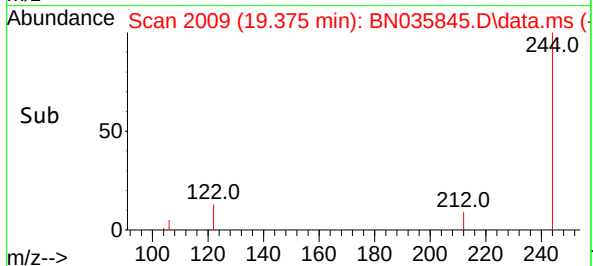
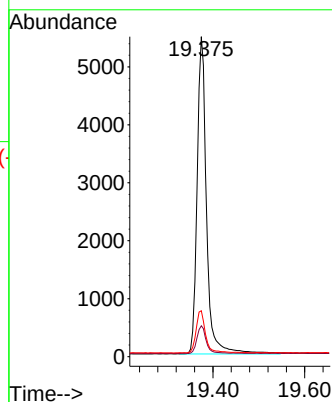
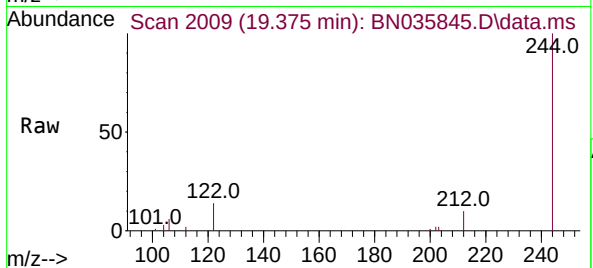
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5

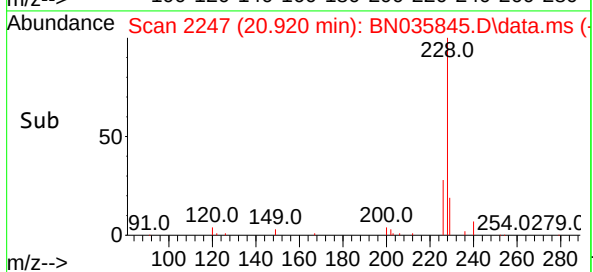
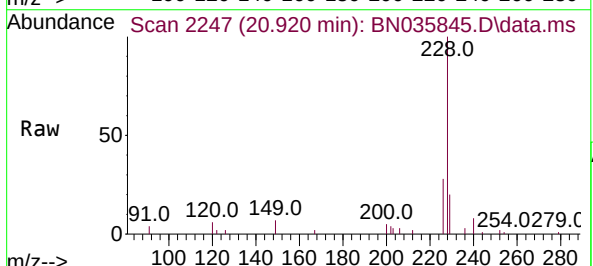
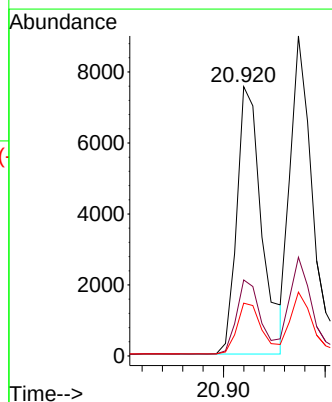
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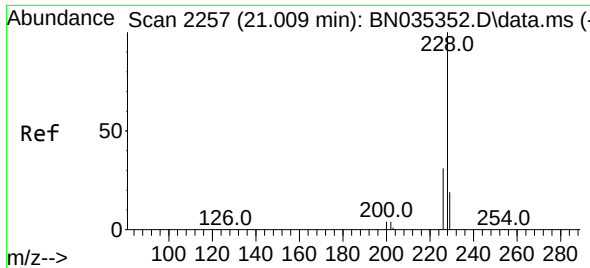
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8





#33

Chrysene

Concen: 0.397 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

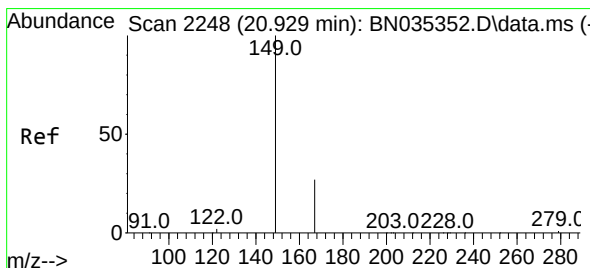
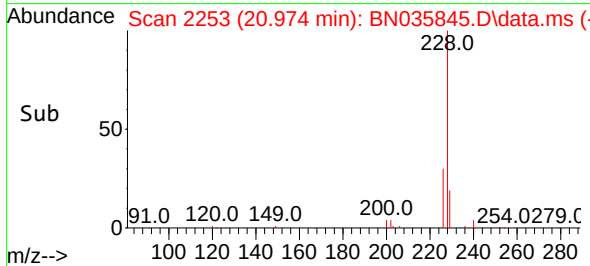
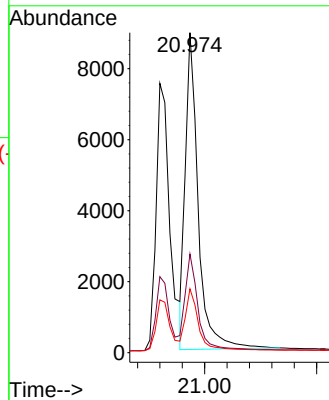
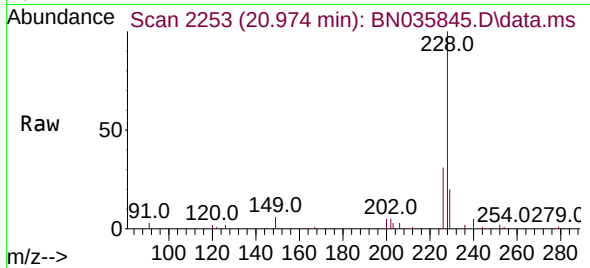
Tgt Ion:	228	Resp:	14214
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.6	37.0
229	20.0	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.458 ng

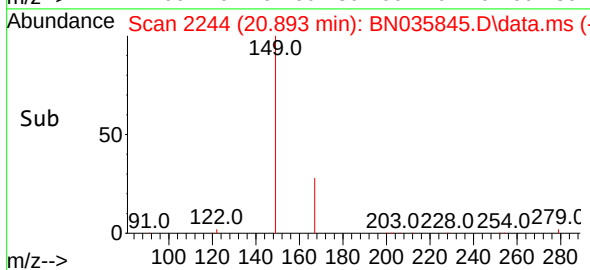
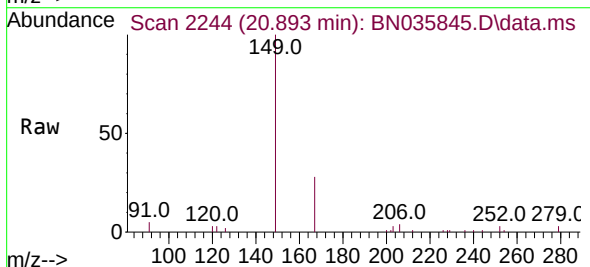
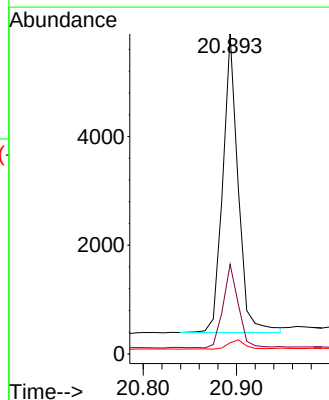
RT: 20.893 min Scan# 2244

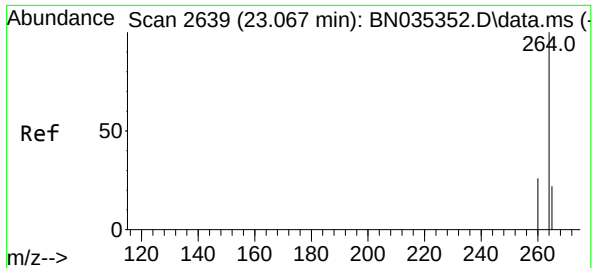
Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

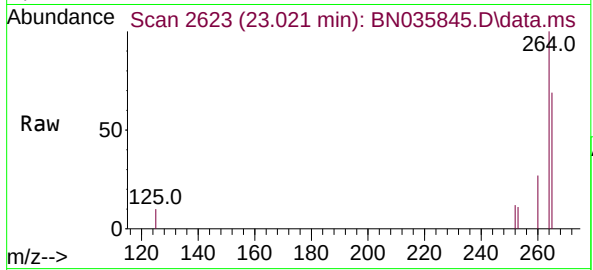
Tgt Ion:	149	Resp:	6282
Ion Ratio	Lower	Upper	
149	100		
167	27.6	22.2	33.4
279	3.4	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2623
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

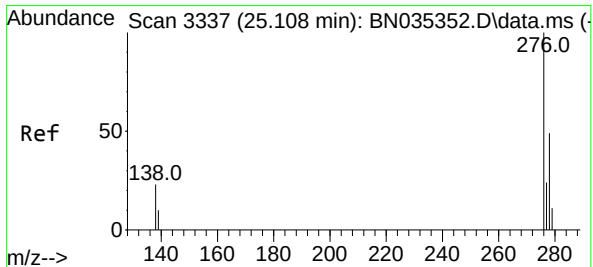
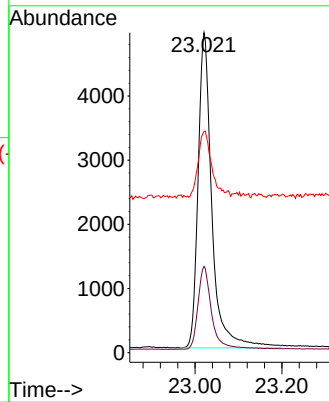
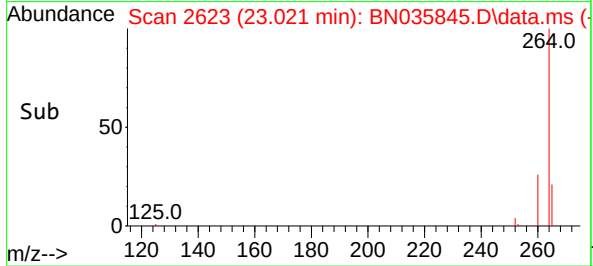
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 1081
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 69.2 40.2 60.4

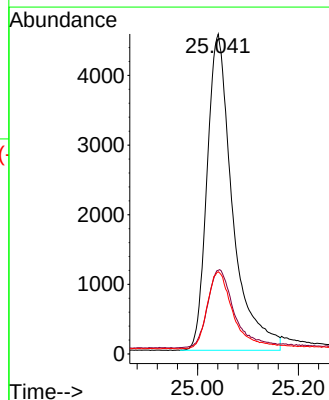
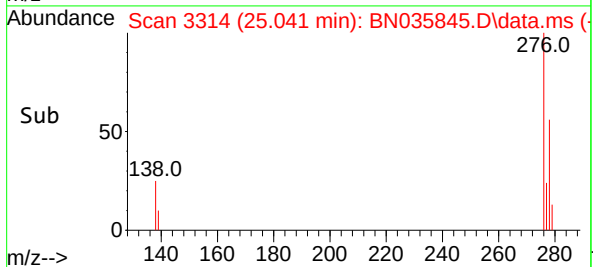
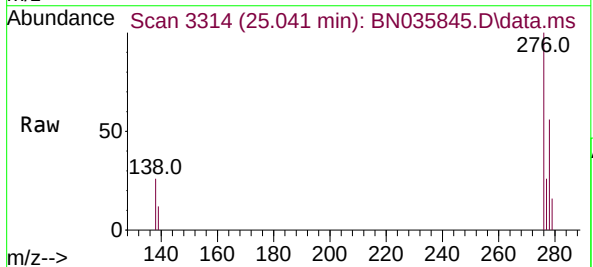
Manual Integrations
APPROVED

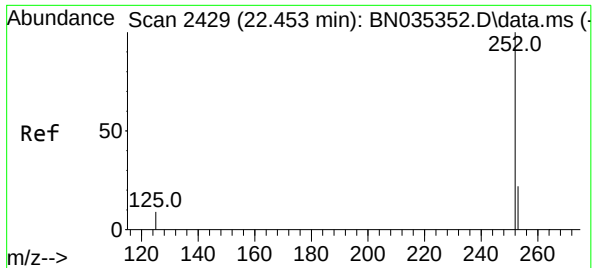
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946
Ion Ratio Lower Upper
276 100
138 26.4 19.4 29.0
277 25.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.494 ng

RT: 22.412 min Scan# 2415

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

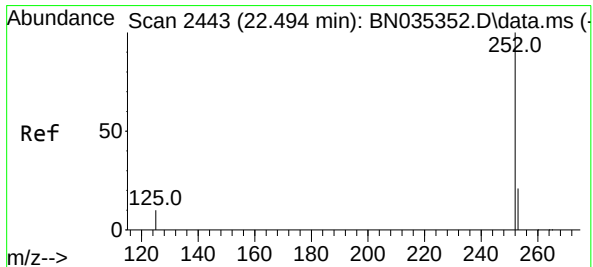
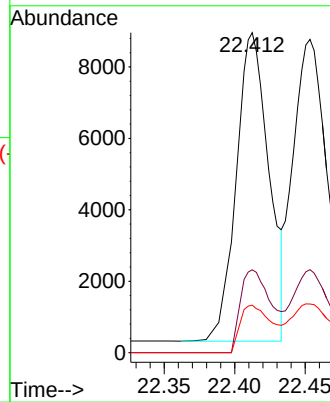
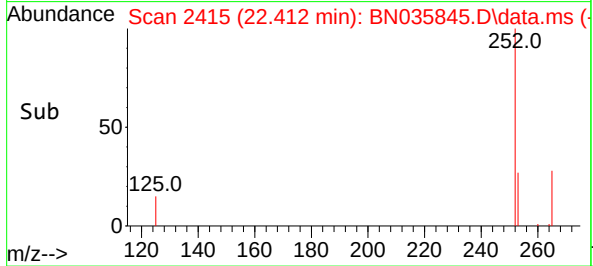
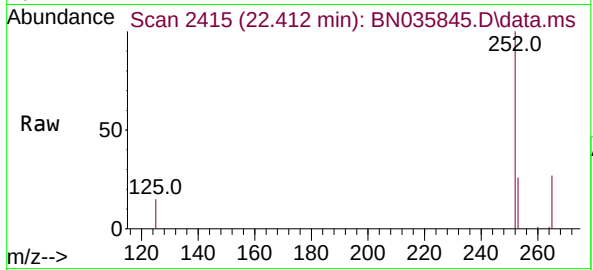
Tgt Ion:	252	Resp:	1956
Ion Ratio	Lower	Upper	
252	100		
253	25.9	19.6	29.4
125	14.9	9.6	14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#38

Benzo(k)fluoranthene

Concen: 0.423 ng m

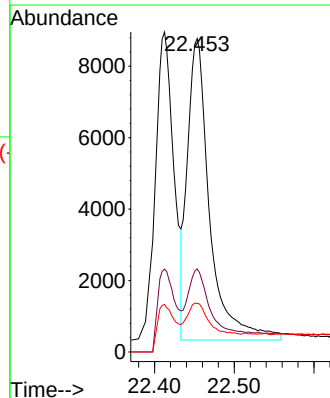
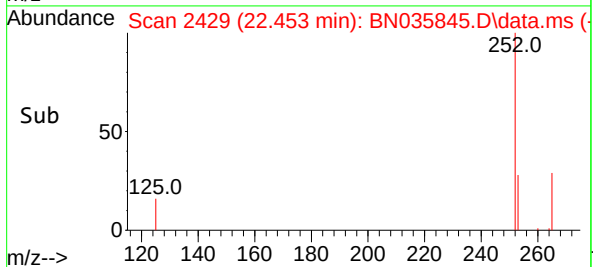
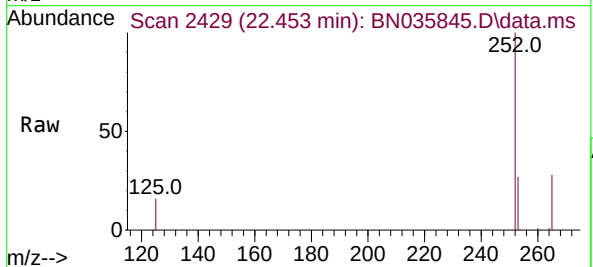
RT: 22.453 min Scan# 2429

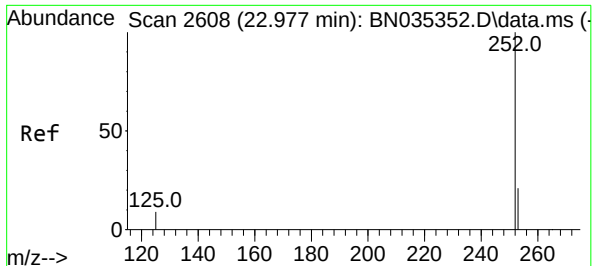
Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Tgt Ion:	252	Resp:	16469
Ion Ratio	Lower	Upper	
252	100		
253	26.5	19.5	29.3
125	15.5	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 22.933 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

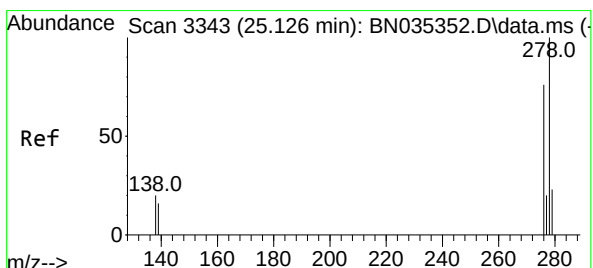
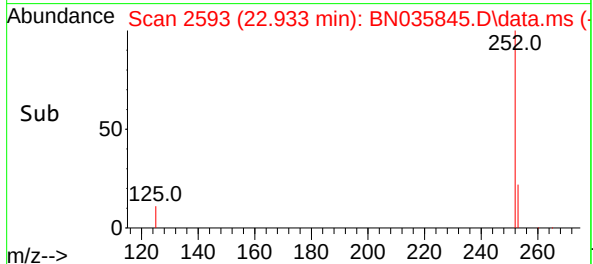
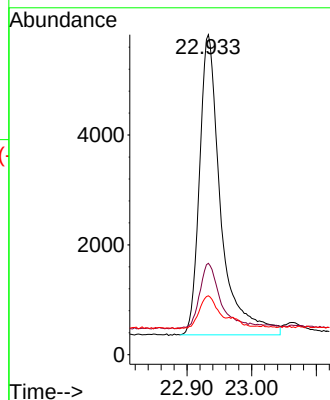
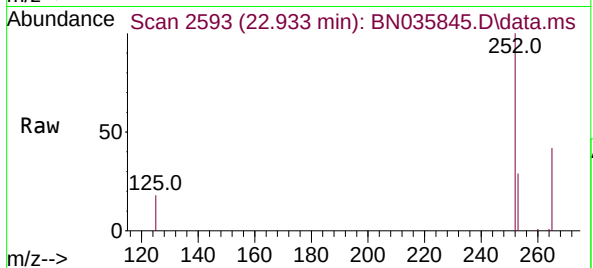
SSTDCCC0.4

Tgt Ion:	252	Resp:	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 12/30/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.380 ng

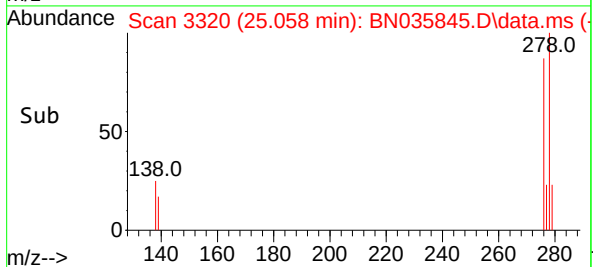
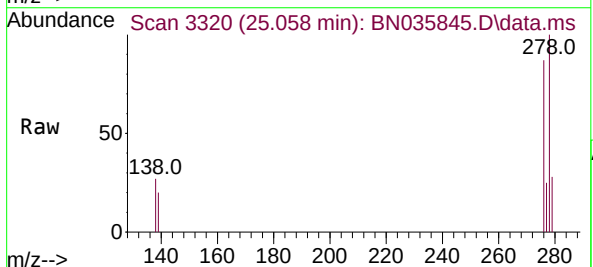
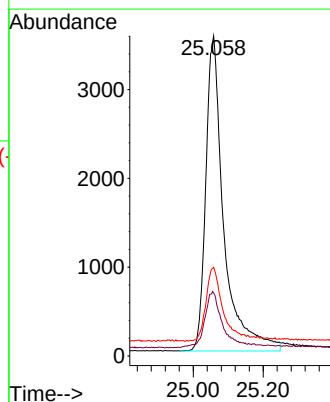
RT: 25.058 min Scan# 3320

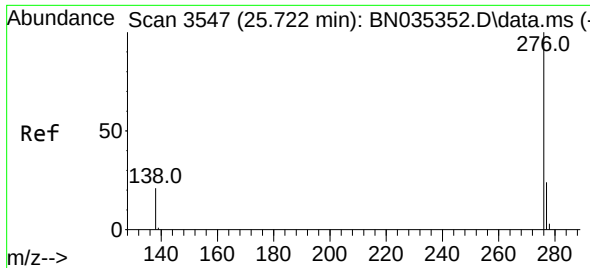
Delta R.T. -0.024 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Tgt Ion:	278	Resp:	12678
Ion Ratio	Lower	Upper	
278	100		
139	19.7	14.2	21.4
279	27.7	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.419 ng

RT: 25.646 min Scan# 31

Delta R.T. -0.032 min

Lab File: BN035845.D

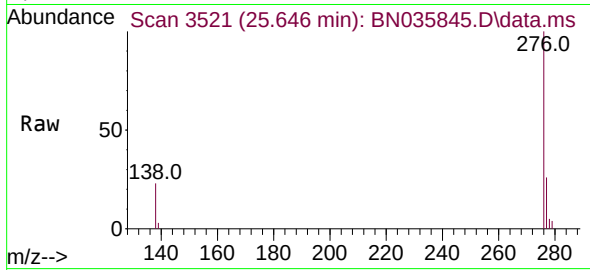
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 14614

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

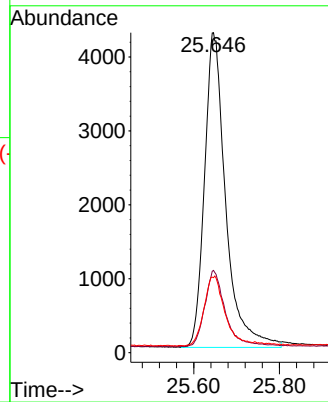
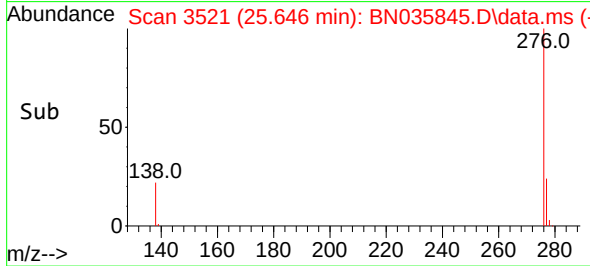
138 23.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035845.D
 Acq On : 26 Dec 2024 09:58
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	183#	-0.01
2	1,4-Dioxane	0.382	0.405	-6.0	197#	0.00
3	n-Nitrosodimethylamine	0.319	0.326	-2.2	183#	0.00
4 S	2-Fluorophenol	1.001	1.006	-0.5	181#	-0.01
5 S	Phenol-d6	1.204	1.112	7.6	171#	-0.02
6	bis(2-Chloroethyl)ether	1.012	0.958	5.3	177#	-0.02
7 I	Naphthalene-d8	1.000	1.000	0.0	178#	-0.02
8 S	Nitrobenzene-d5	0.244	0.298	-22.1	226#	-0.01
9	Naphthalene	1.055	1.013	4.0	172#	-0.02
10	Hexachlorobutadiene	0.243	0.252	-3.7	182#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.545	12.9	157#	-0.02
12	2-Methylnaphthalene	0.755	0.637	15.6	154#	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	142	-0.02
14 S	2,4,6-Tribromophenol	0.284	0.248	12.7	137	-0.02
15 S	2-Fluorobiphenyl	1.512	1.504	0.5	141	-0.02
16	Acenaphthylene	1.680	1.548	7.9	138	-0.02
17	Acenaphthene	1.115	1.057	5.2	138	-0.02
18	Fluorene	1.596	1.397	12.5	128	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	119	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.047	-20.5	156#	-0.02
21	4-Bromophenyl-phenylether	0.234	0.217	7.3	114	-0.02
22	Hexachlorobenzene	0.275	0.309	-12.4	134	-0.02
23	Atrazine	0.167	0.164	1.8	126	-0.01
24	Pentachlorophenol	0.120	0.123	-2.5	153#	-0.01
25	Phenanthrene	1.099	1.030	6.3	115	-0.02
26	Anthracene	0.994	0.888	10.7	112	-0.01
27 SURR	Fluoranthene-d10	1.134	0.991	12.6	109	-0.02
28	Fluoranthene	1.481	1.287	13.1	108	-0.01
29 I	Chrysene-d12	1.000	1.000	0.0	104	-0.02
30	Pyrene	1.477	1.538	-4.1	109	-0.02
31 S	Terphenyl-d14	0.789	0.784	0.6	103	-0.01
32	Benzo(a)anthracene	1.399	1.289	7.9	99	-0.02
33	Chrysene	1.443	1.431	0.8	104	-0.02
34	Bis(2-ethylhexyl)phthalate	0.553	0.633	-14.5	128	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	100	-0.02
36	Indeno(1,2,3-cd)pyrene	1.564	1.474	5.8	96	-0.03
37	Benzo(b)fluoranthene	1.463	1.809	-23.7	137	-0.02
38	Benzo(k)fluoranthene	1.440	1.523	-5.8	108	-0.02
39 C	Benzo(a)pyrene	1.205	1.152	4.4	100	-0.02
40	Dibenzo(a,h)anthracene	1.234	1.172	5.0	98	-0.02
41	Benzo(g,h,i)perylene	1.289	1.351	-4.8	108	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	183	-0.01
2	1,4-Dioxane	0.400	0.423	-5.7	197	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	183	0.00
4 S	2-Fluorophenol	0.400	0.402	-0.5	181	-0.01
5 S	Phenol-d6	0.400	0.369	7.8	171	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.379	5.3	177	-0.02
7 I	Naphthalene-d8	0.400	0.400	0.0	178	-0.02
8 S	Nitrobenzene-d5	0.400	0.488	-22.0	226	-0.01
9	Naphthalene	0.400	0.384	4.0	172	-0.02
10	Hexachlorobutadiene	0.400	0.415	-3.7	182	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.348	13.0	157	-0.02
12	2-Methylnaphthalene	0.400	0.337	15.8	154	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	142	-0.02
14 S	2,4,6-Tribromophenol	0.400	0.350	12.5	137	-0.02
15 S	2-Fluorobiphenyl	0.400	0.398	0.5	141	-0.02
16	Acenaphthylene	0.400	0.369	7.8	138	-0.02
17	Acenaphthene	0.400	0.379	5.3	138	-0.02
18	Fluorene	0.400	0.350	12.5	128	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	119	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.475	-18.7	156	-0.02
21	4-Bromophenyl-phenylether	0.400	0.371	7.3	114	-0.02
22	Hexachlorobenzene	0.400	0.450	-12.5	134	-0.02
23	Atrazine	0.400	0.393	1.8	126	-0.01
24	Pentachlorophenol	0.400	0.411	-2.7	153	-0.01
25	Phenanthrene	0.400	0.375	6.3	115	-0.02
26	Anthracene	0.400	0.358	10.5	112	-0.01
27 SURR	Fluoranthene-d10	0.400	0.350	12.5	109	-0.02
28	Fluoranthene	0.400	0.347	13.3	108	-0.01
29 I	Chrysene-d12	0.400	0.400	0.0	104	-0.02
30	Pyrene	0.400	0.417	-4.2	109	-0.02
31 S	Terphenyl-d14	0.400	0.397	0.8	103	-0.01
32	Benzo(a)anthracene	0.400	0.368	8.0	99	-0.02
33	Chrysene	0.400	0.397	0.8	104	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.458	-14.5	128	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	100	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.377	5.8	96	-0.03
37	Benzo(b)fluoranthene	0.400	0.494	-23.5	137	-0.02
38	Benzo(k)fluoranthene	0.400	0.423	-5.7	108	-0.02
39 C	Benzo(a)pyrene	0.400	0.382	4.5	100	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.380	5.0	98	-0.02
41	Benzo(g,h,i)perylene	0.400	0.419	-4.7	108	-0.03

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 19:41

Lab File ID: BN035861.D Init. Calib. Date(s): 11/27/2024 11/27/2024

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

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.551		-12.0	50.0
Fluoranthene-d10	1.134	0.922		-18.7	50.0
2-Fluorophenol	1.001	0.931		-7.0	50.0
Phenol-d6	1.204	1.022		-15.1	50.0
Nitrobenzene-d5	0.244	0.306		25.4	50.0
2-Fluorobiphenyl	1.512	1.480		-2.1	50.0
2,4,6-Tribromophenol	0.284	0.225		-20.8	50.0
Terphenyl-d14	0.789	0.898		13.8	50.0
1,4-Dioxane	0.382	0.394		3.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035861.D
 Acq On : 26 Dec 2024 19:41
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

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

Quant Time: Dec 27 00:42:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	5699	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	2874	0.372	ng	-0.01
5) Phenol-d6	6.470	99	3155	0.340	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2215m	0.501	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	3987	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1008	0.318	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6619	0.392	ng	-0.02
27) Fluoranthene-d10	18.747	212	8643	0.325	ng	-0.01
31) Terphenyl-d14	19.379	244	5407	0.455	ng	0.00
Target Compounds						
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

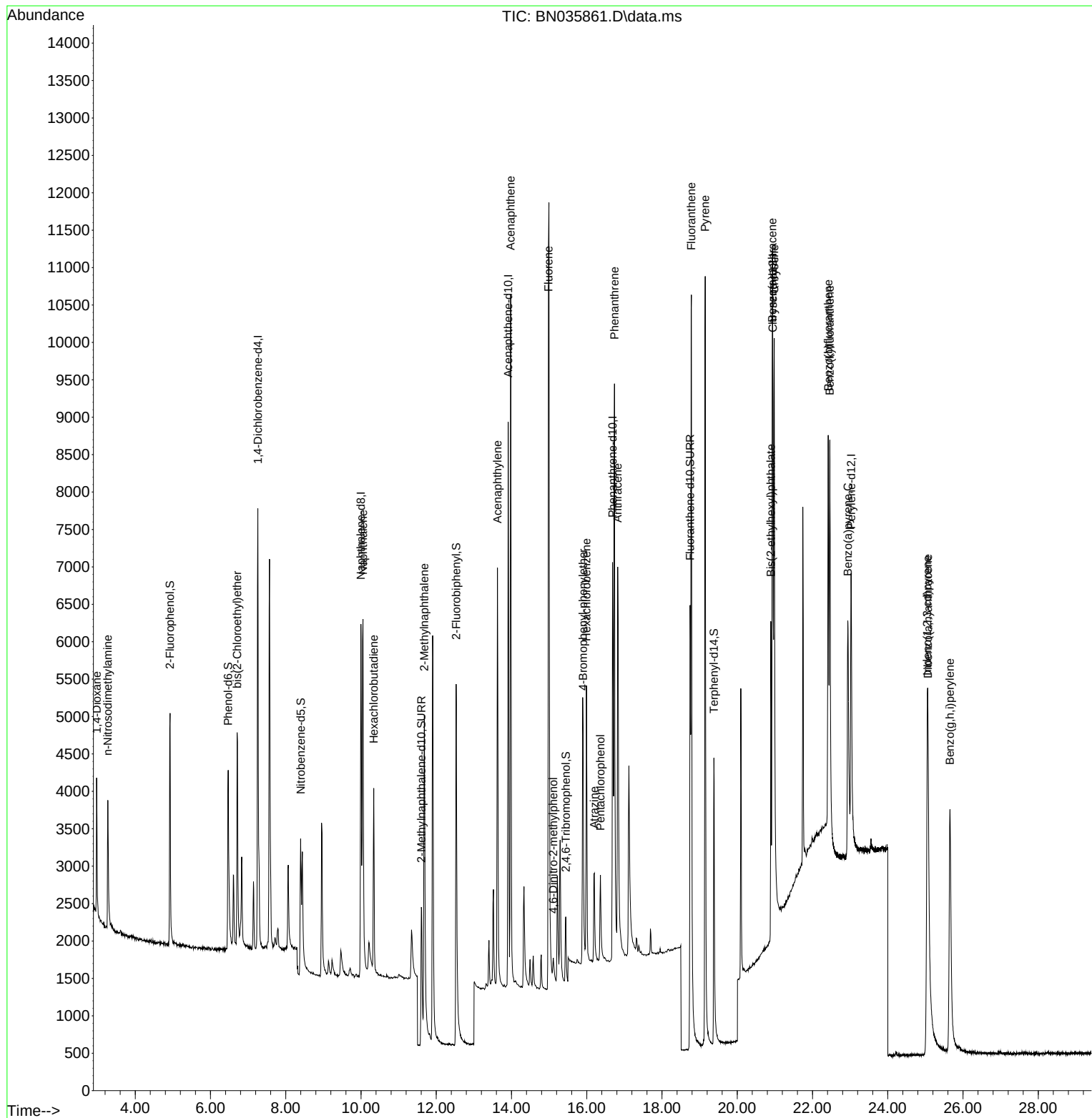
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

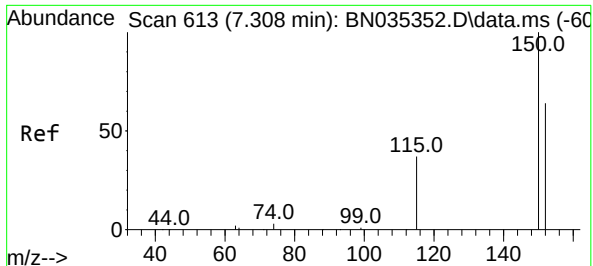
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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

Manual Integrations
APPROVED

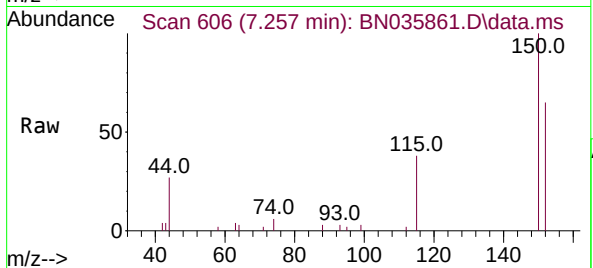
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

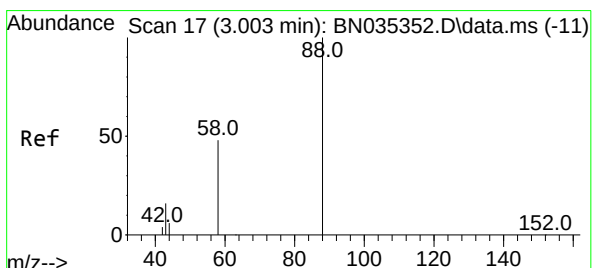
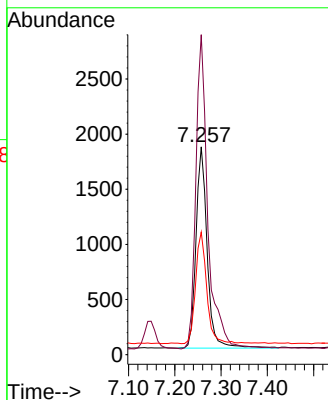
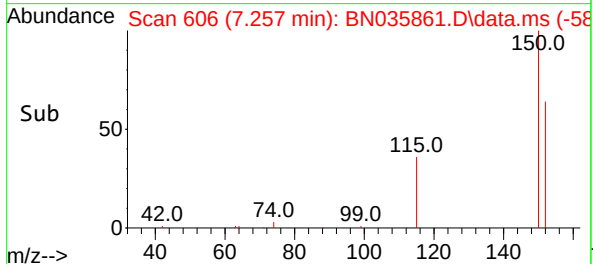
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 152 Resp: 308
Ion Ratio Lower Upper
152 100
150 154.0 124.0 186.0
115 58.9 49.6 74.4

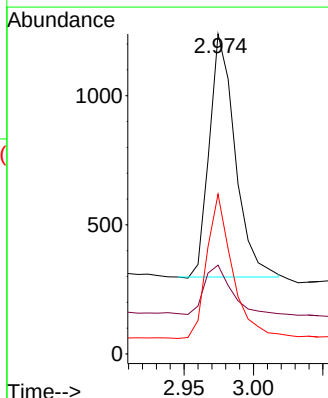
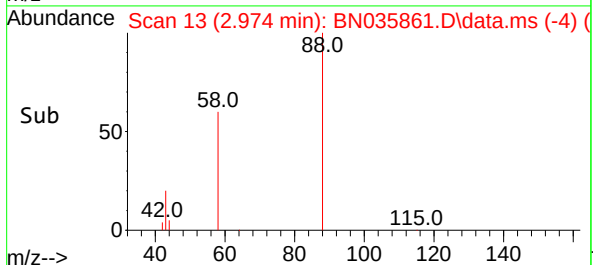
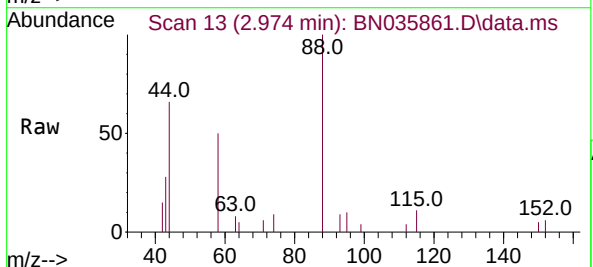
Manual Integrations
APPROVED

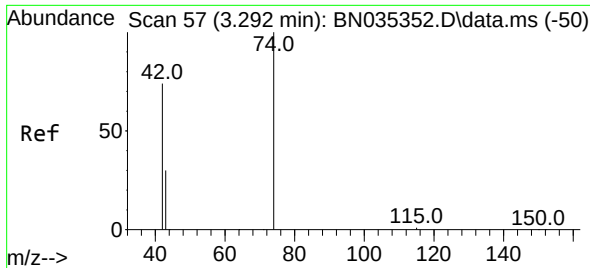
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

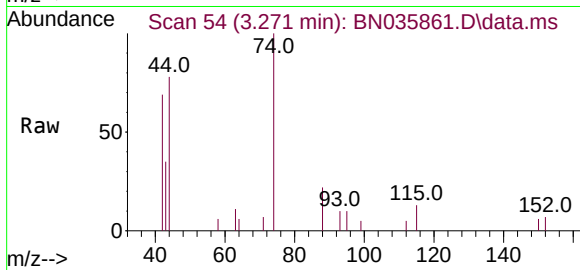
Tgt Ion: 88 Resp: 1215
Ion Ratio Lower Upper
88 100
43 20.1 17.2 25.8
58 59.1 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

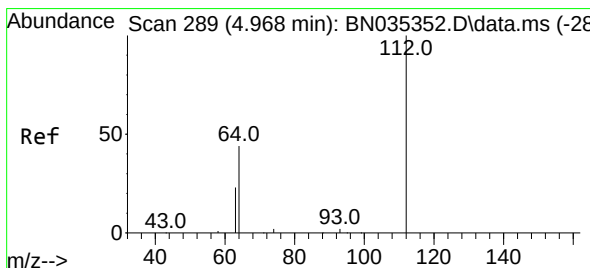
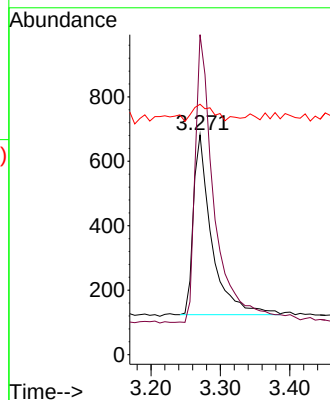
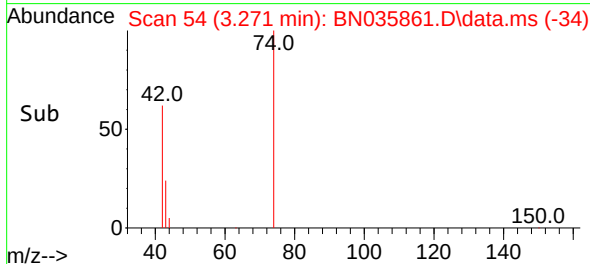
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 102
Ion Ratio Lower Upper
42 100
74 169.1 124.9 187.3
44 10.6 2.2 3.4

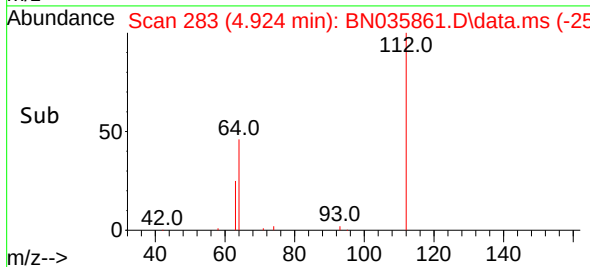
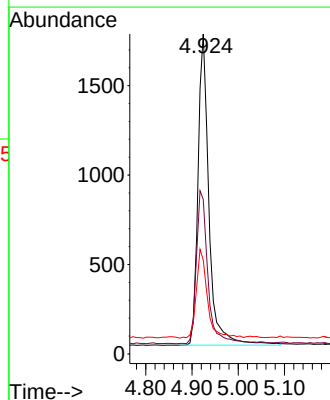
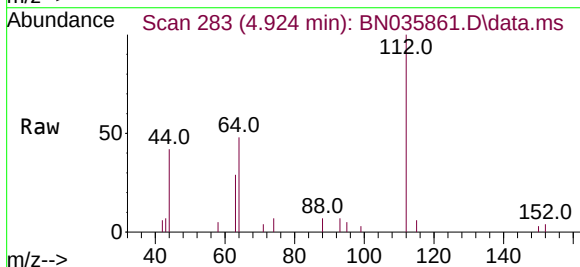
Manual Integrations
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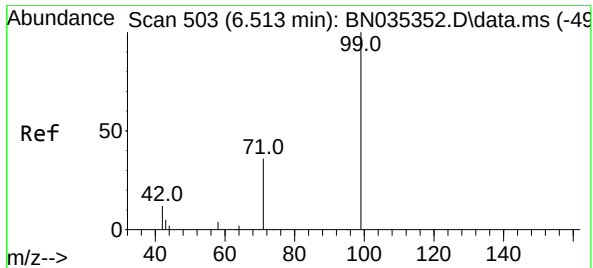
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:112 Resp: 2874
Ion Ratio Lower Upper
112 100
64 51.6 39.8 59.8
63 28.9 21.0 31.6





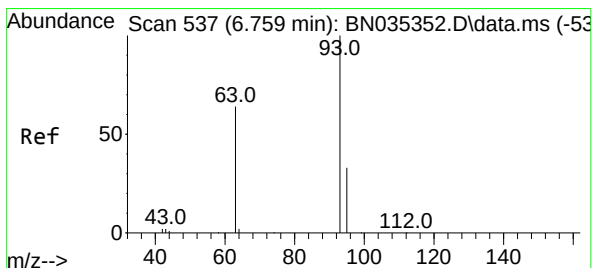
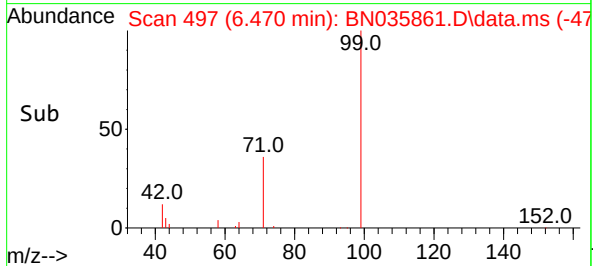
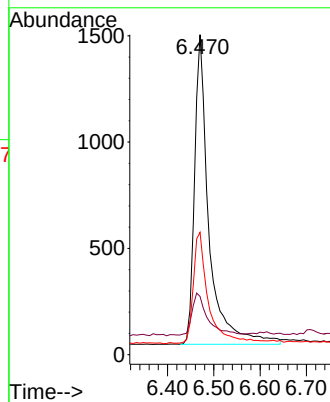
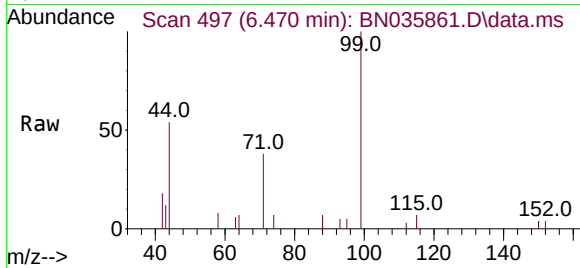
#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 315
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.2
71 37.3 29.3 43.9

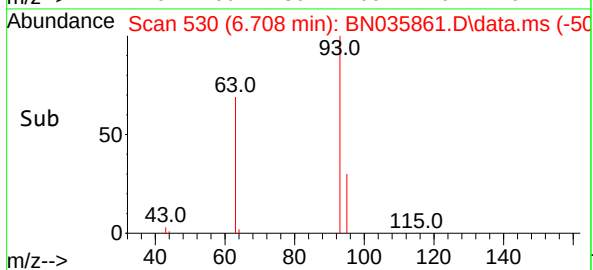
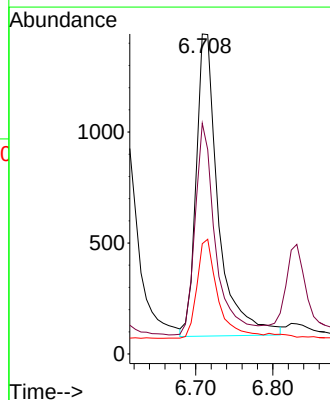
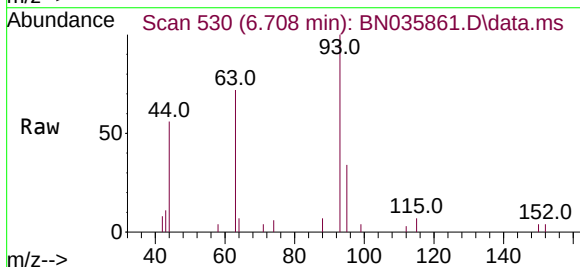
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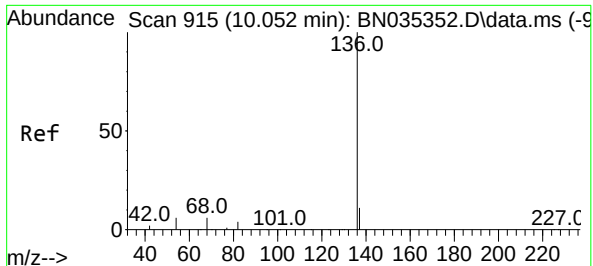
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725
Ion Ratio Lower Upper
93 100
63 64.1 50.4 75.6
95 31.0 25.7 38.5





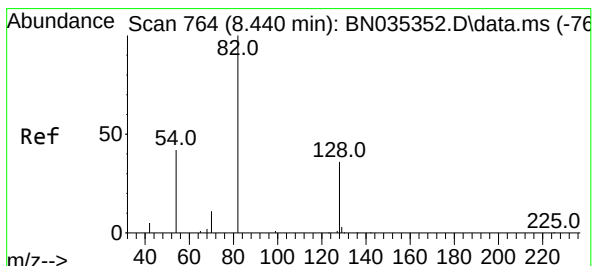
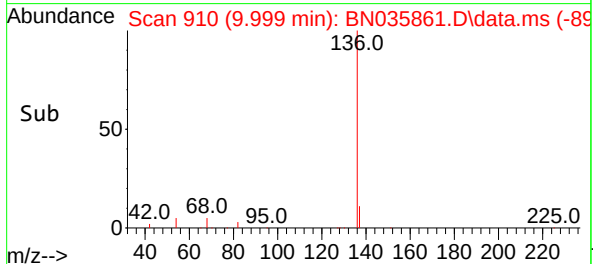
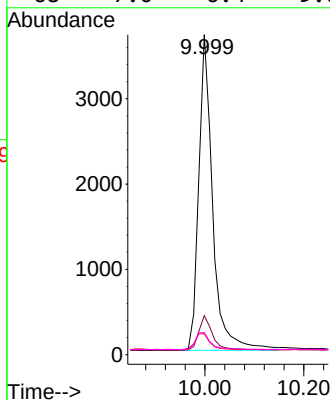
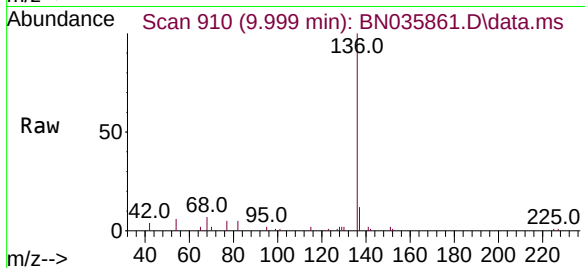
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: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

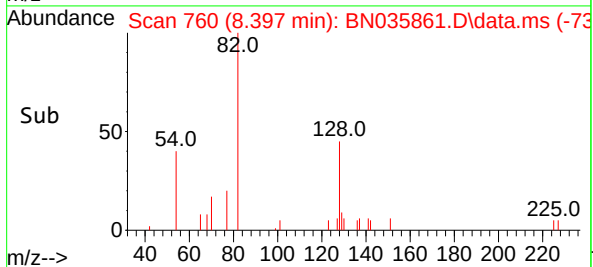
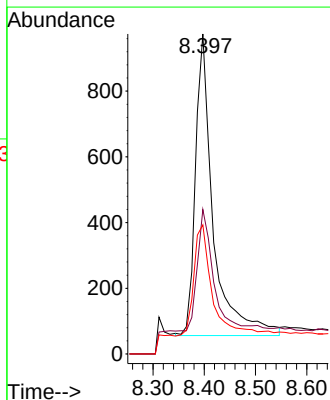
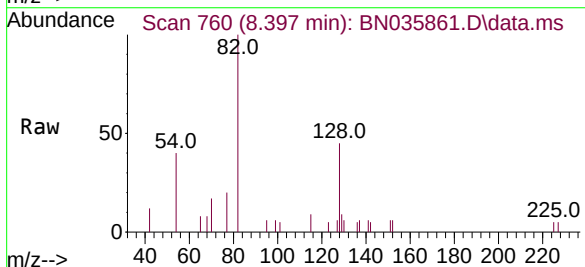
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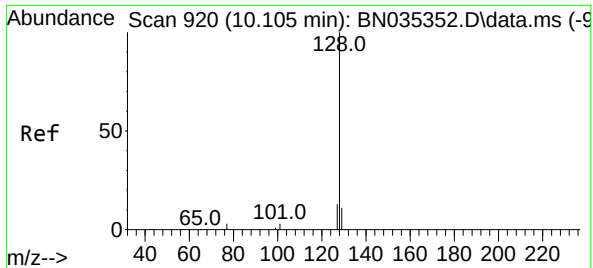
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#8
Nitrobenzene-d5
Concen: 0.501 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2215
Ion Ratio Lower Upper
82 100
128 45.2 33.4 50.0
54 40.3 36.7 55.1





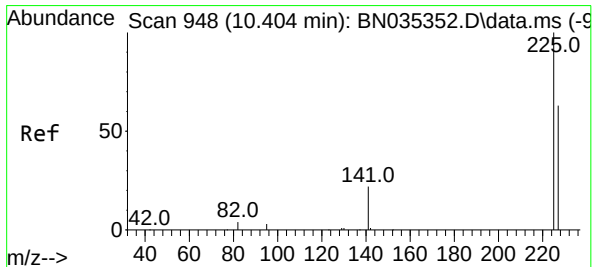
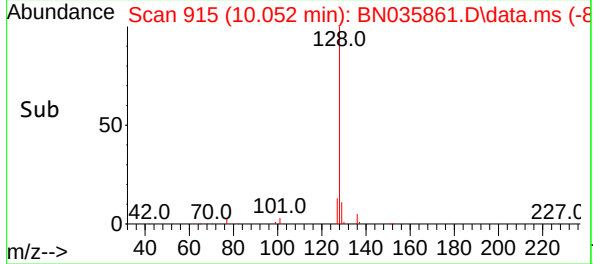
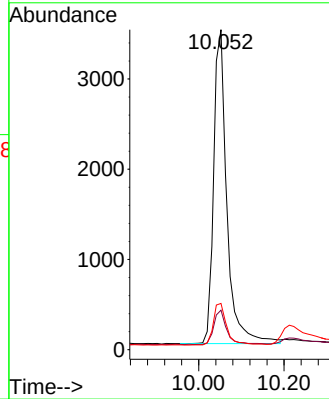
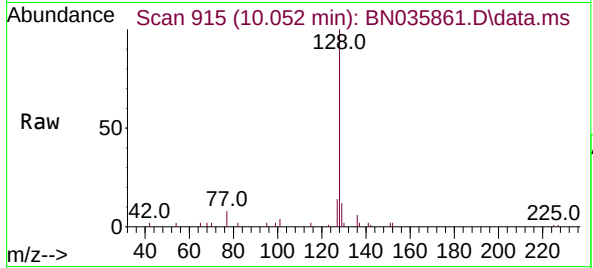
#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 7510
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.5 11.4 17.2

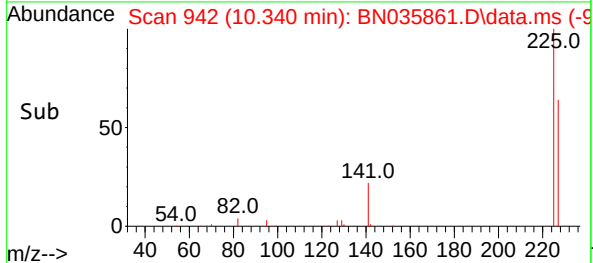
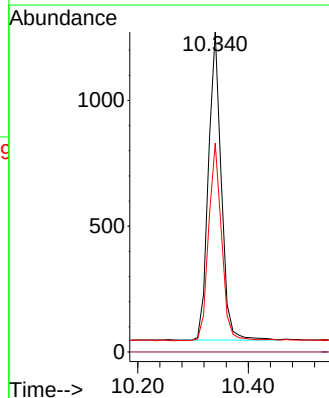
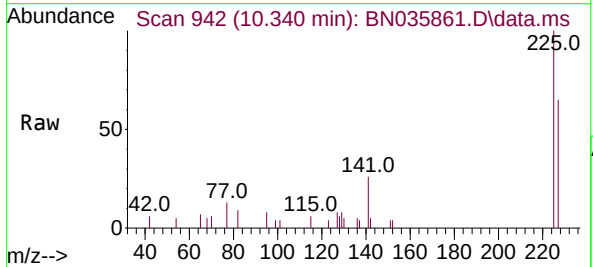
Manual Integrations
APPROVED

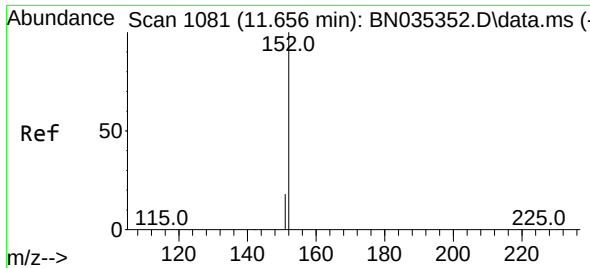
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

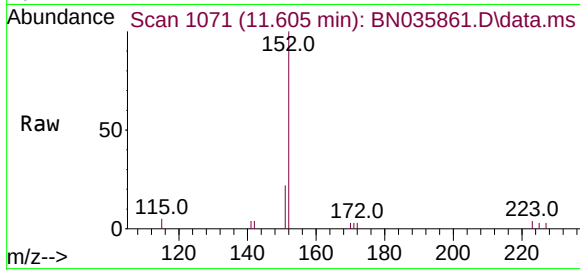
Tgt Ion:225 Resp: 1992
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

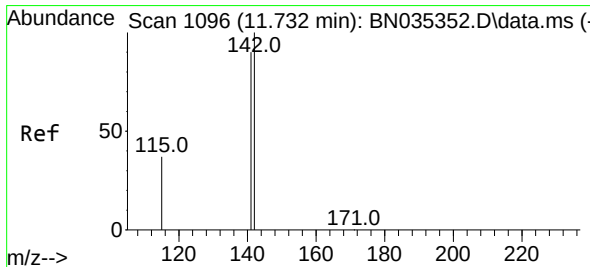
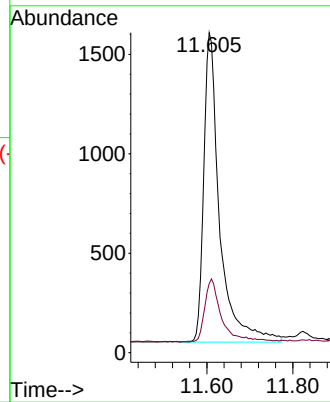
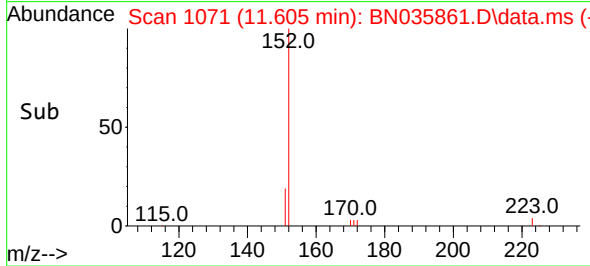
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 398
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0

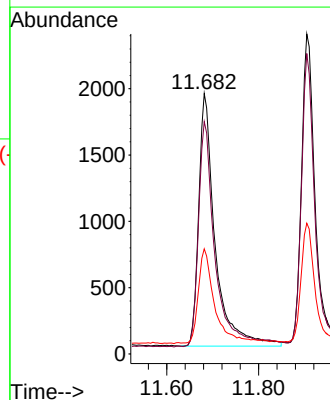
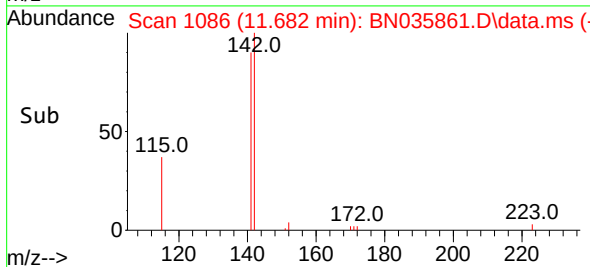
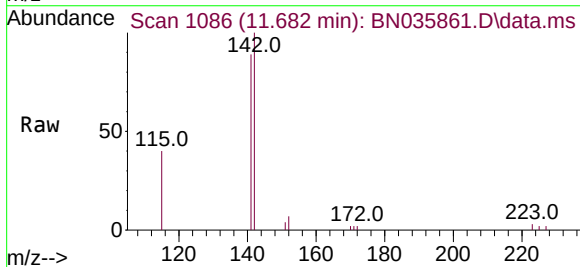
Manual Integrations
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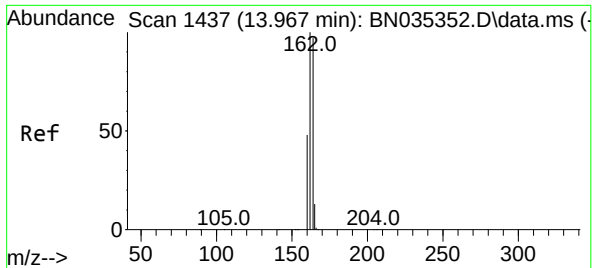
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

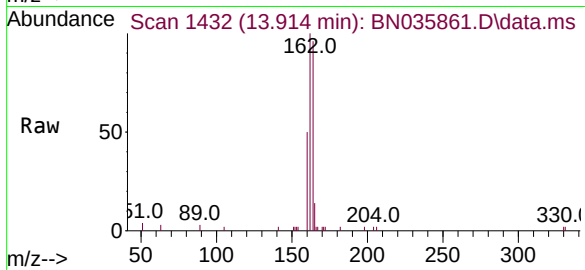
Tgt Ion:142 Resp: 4745
Ion Ratio Lower Upper
142 100
141 89.2 72.2 108.4
115 40.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

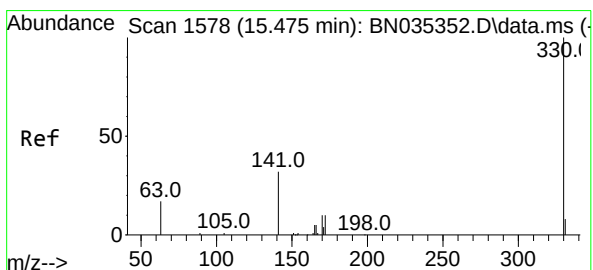
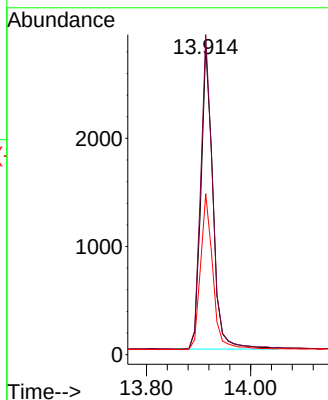
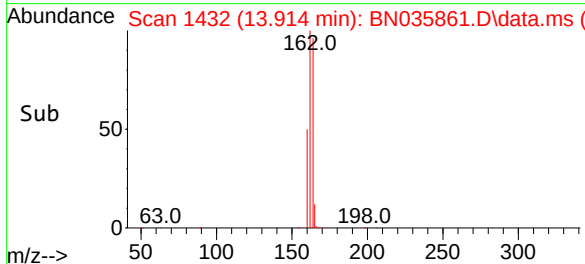
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



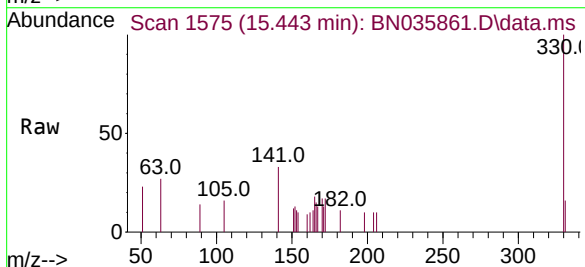
Tgt Ion:164 Resp: 4472
Ion Ratio Lower Upper
164 100
162 104.0 82.2 123.2
160 52.3 40.1 60.1

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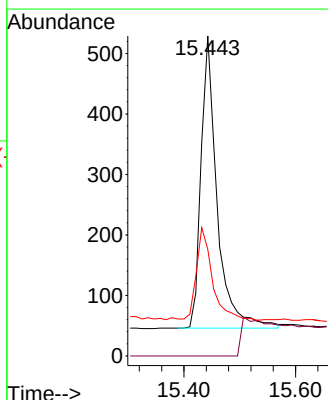
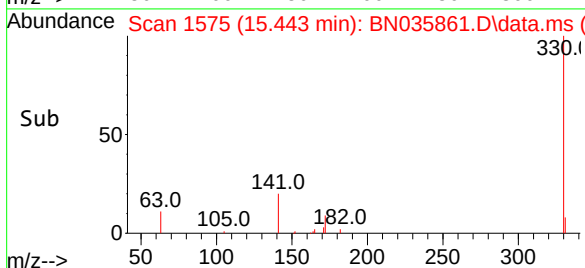
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

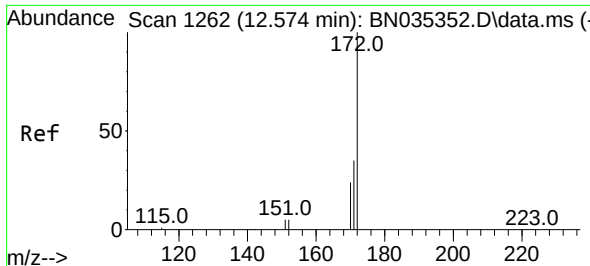


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41



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





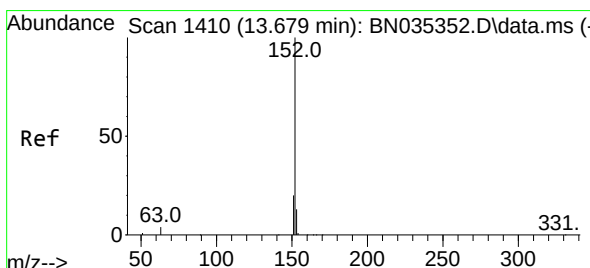
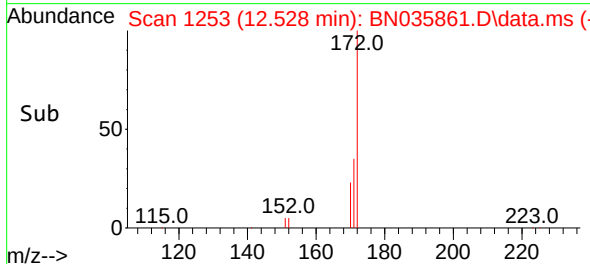
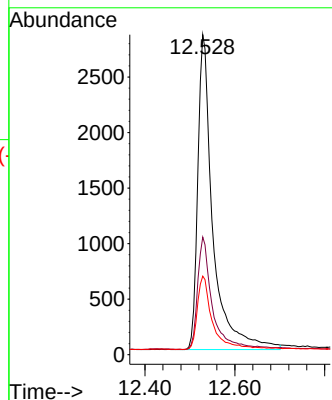
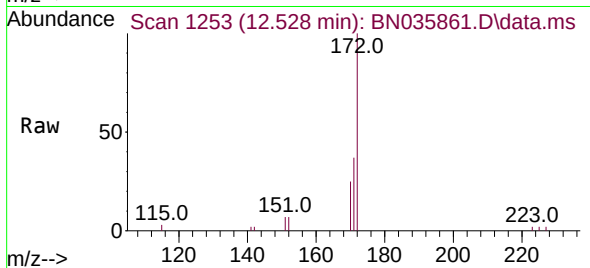
#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

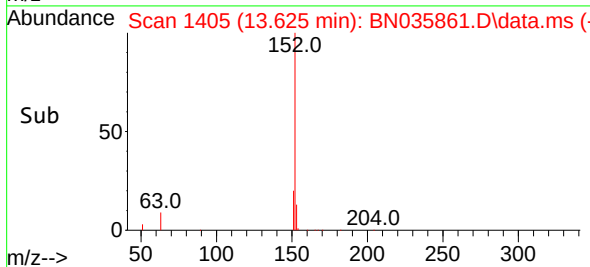
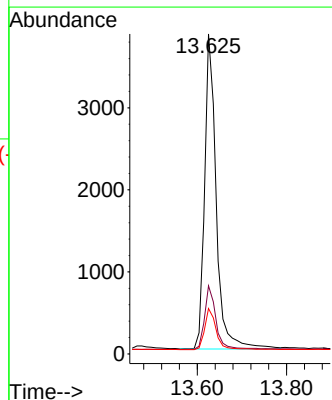
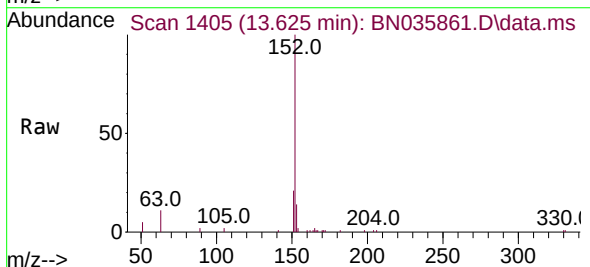
Manual Integrations
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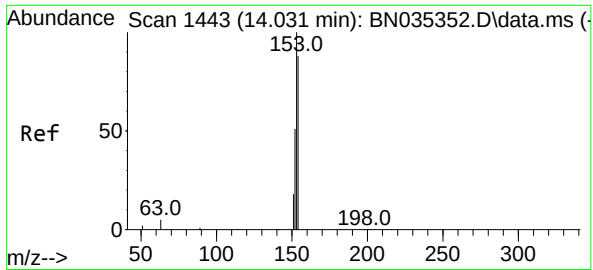
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

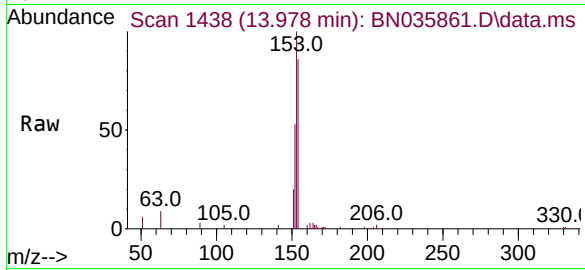
Tgt Ion:152 Resp: 6923
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.0 10.4 15.6





#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

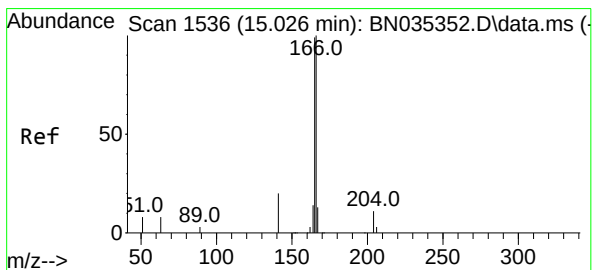
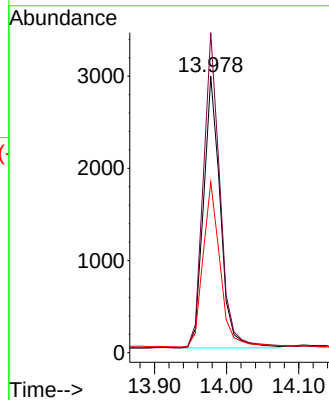
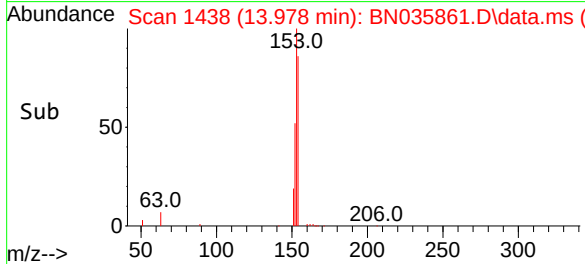
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 4770
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 62.6 49.0 73.6

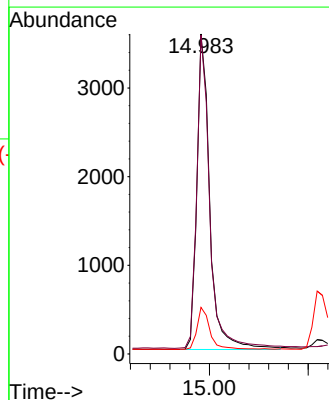
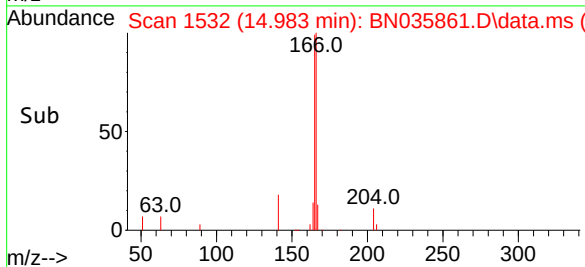
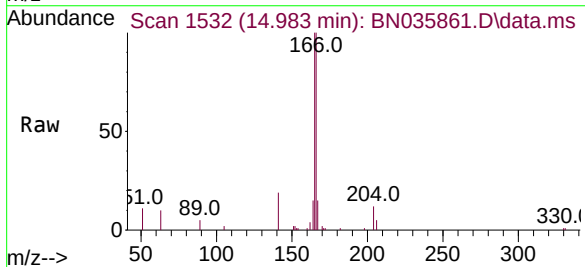
Manual Integrations
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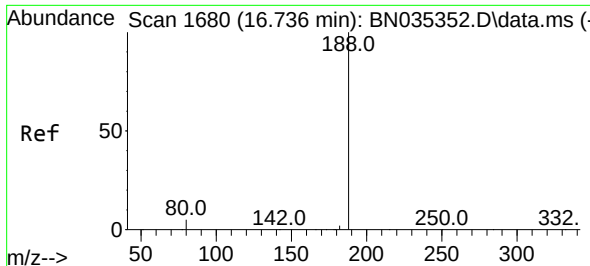
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478
Ion Ratio Lower Upper
166 100
165 98.7 79.7 119.5
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.686 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

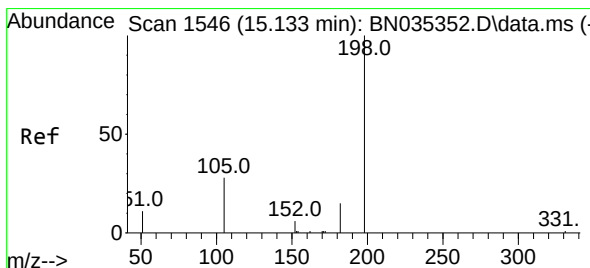
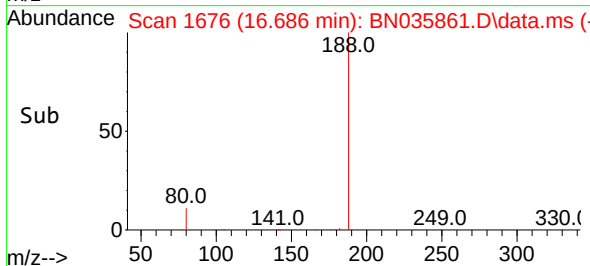
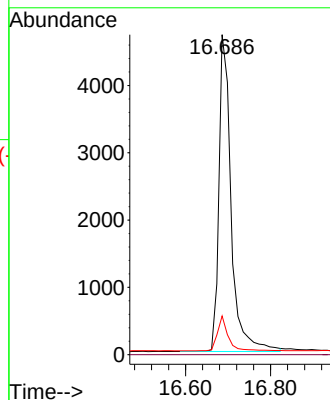
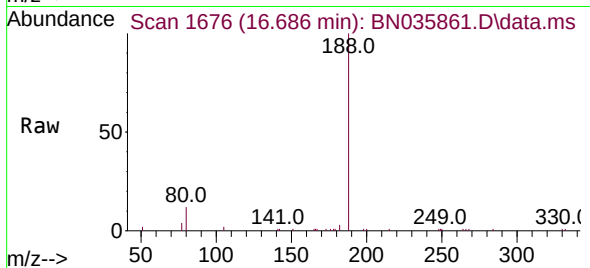
Tgt Ion:188	Resp:	937
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	12.1	4.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.492 ng

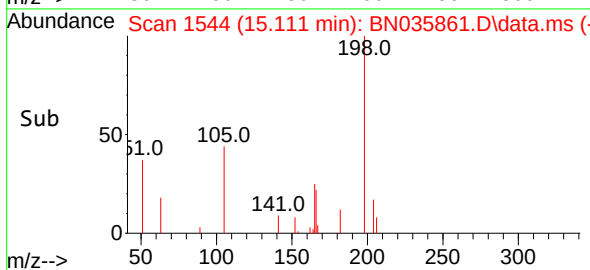
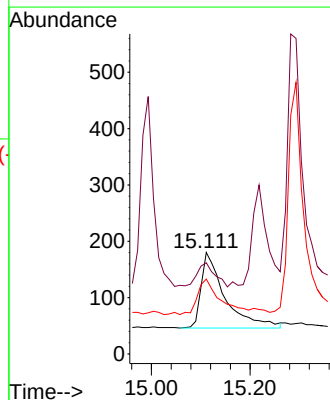
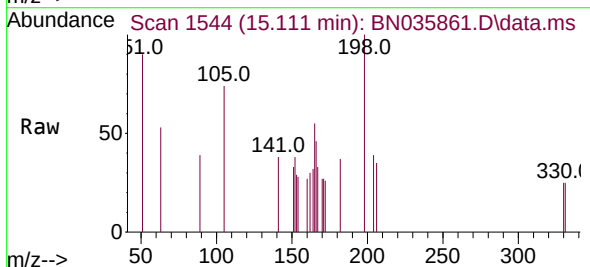
RT: 15.111 min Scan# 1544

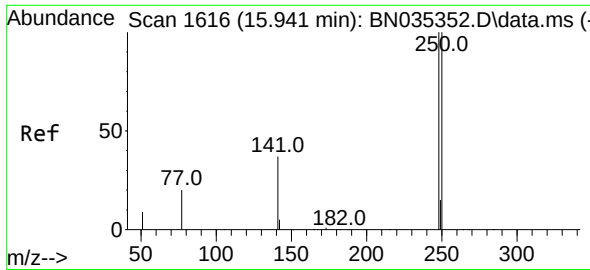
Delta R.T. -0.011 min

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
105	73.9	67.9





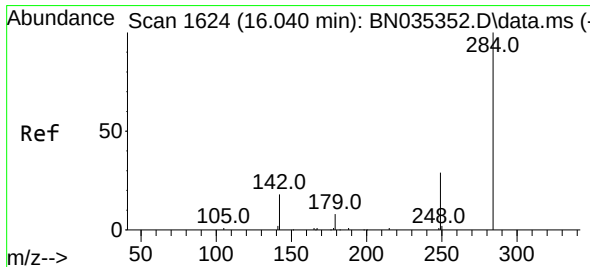
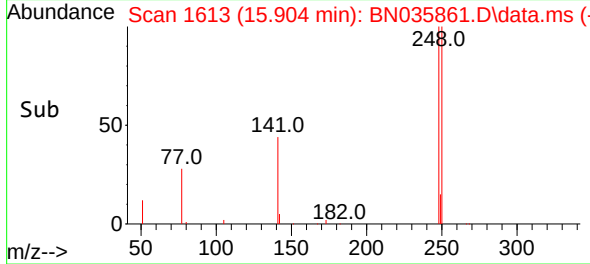
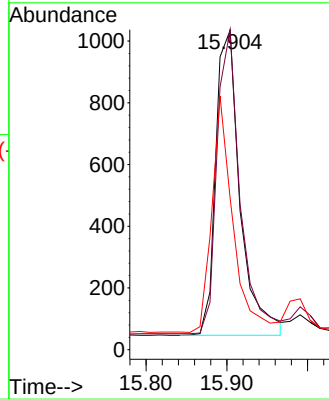
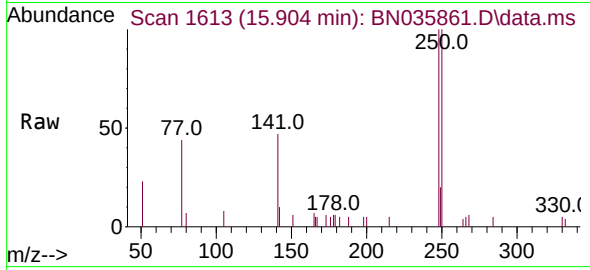
#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

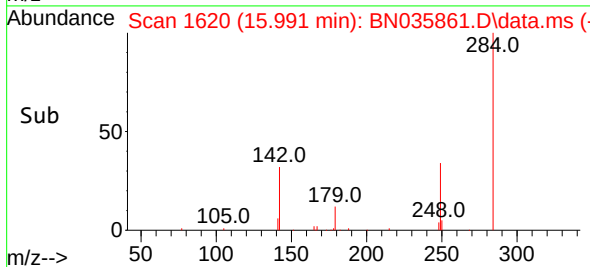
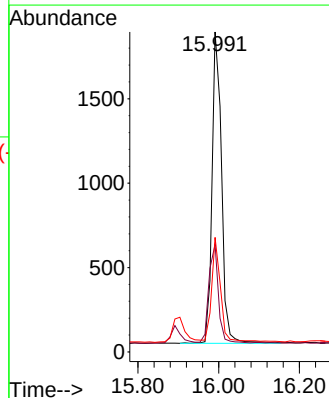
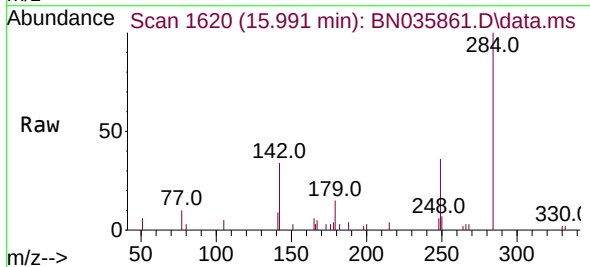
Manual Integrations
APPROVED

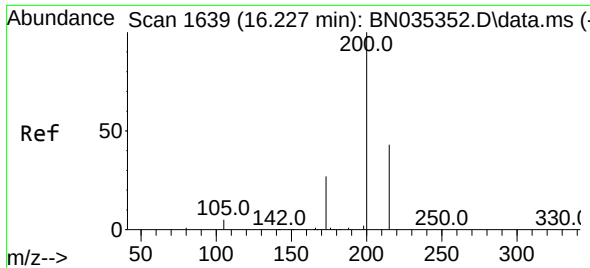
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015
Ion Ratio Lower Upper
284 100
142 31.5 26.7 40.1
249 31.2 24.6 36.8





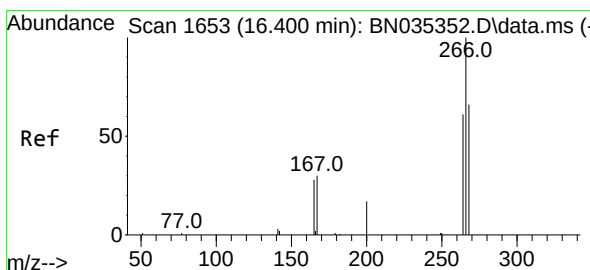
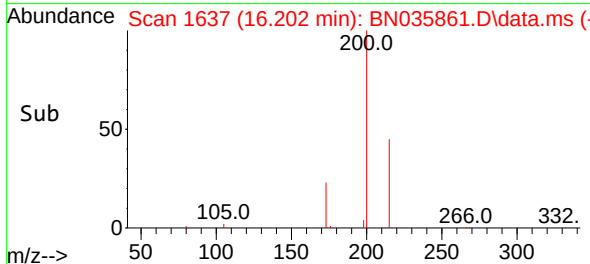
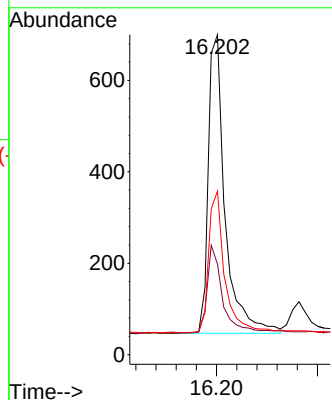
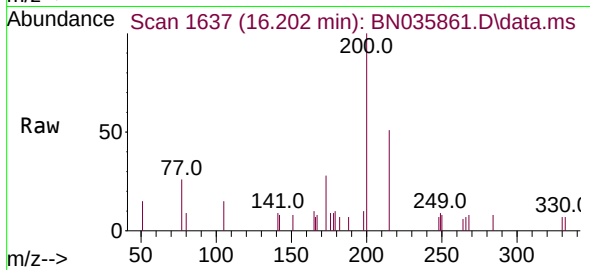
#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC

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

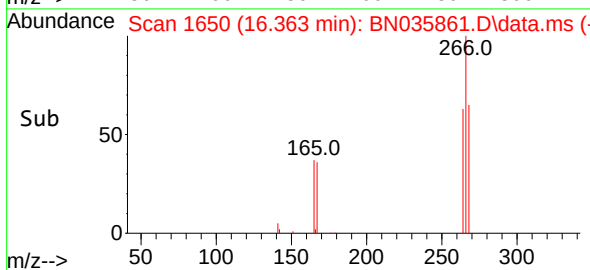
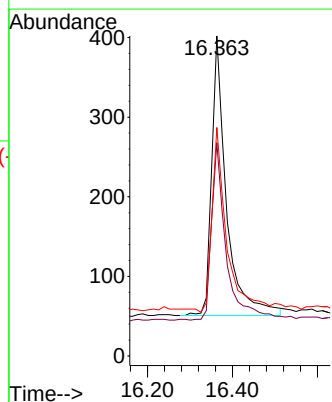
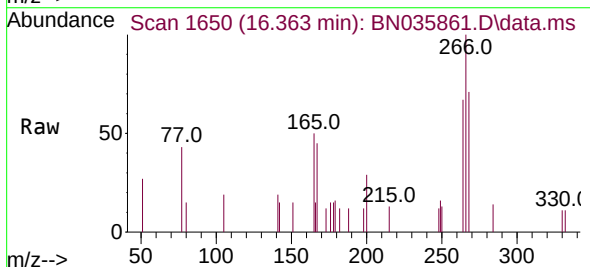
Manual Integrations
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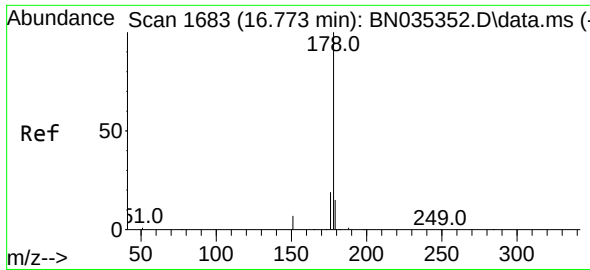
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846
Ion Ratio Lower Upper
266 100
264 62.3 42.3 63.5
268 67.7 43.3 64.9#





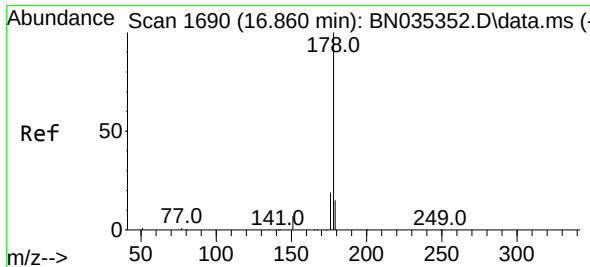
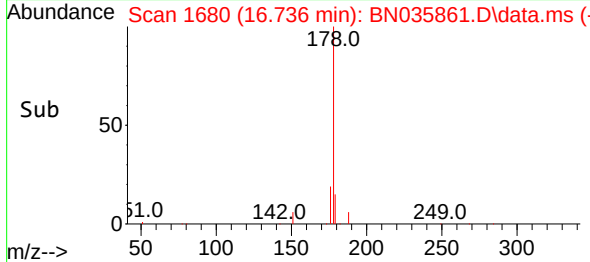
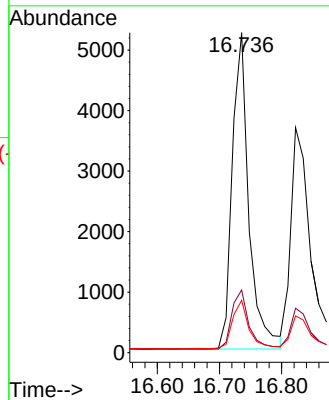
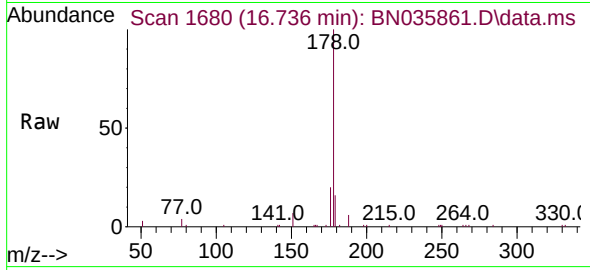
#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 969
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.3 12.3 18.5

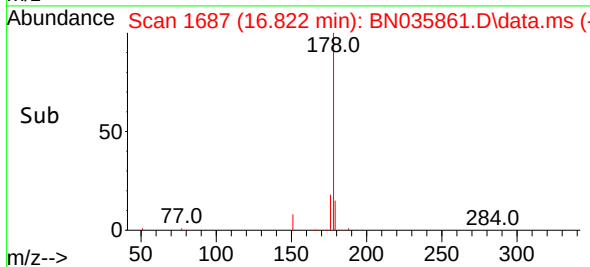
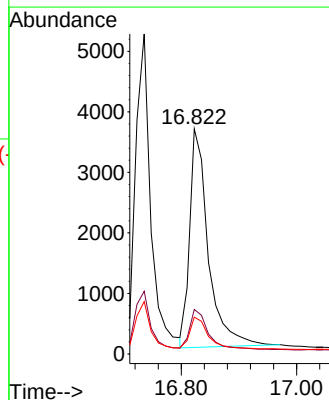
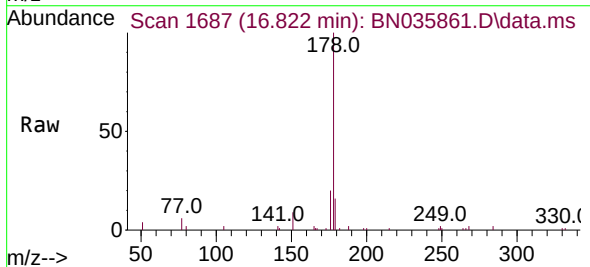
Manual Integrations
APPROVED

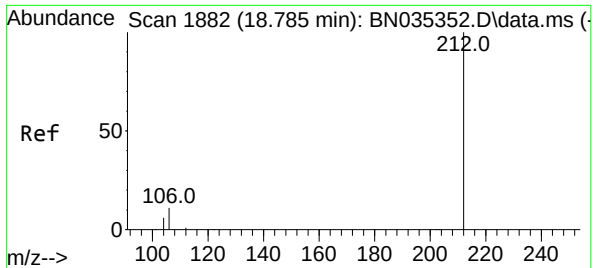
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.3 12.6 18.8





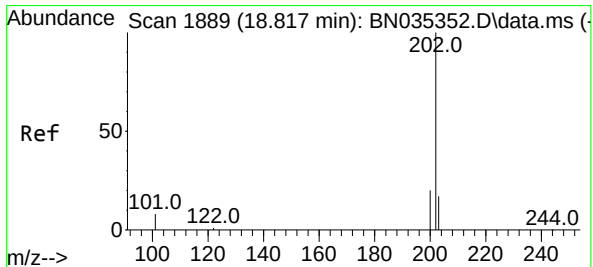
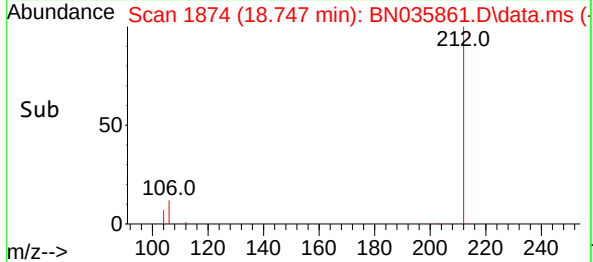
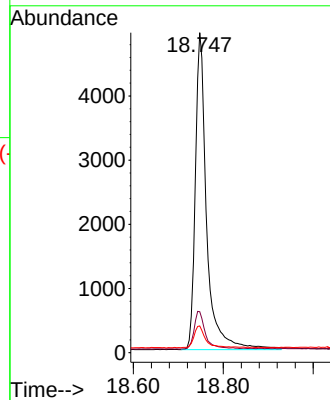
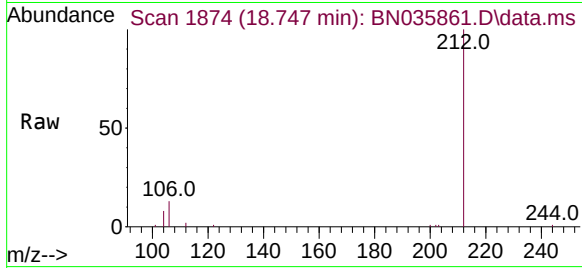
#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1881
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

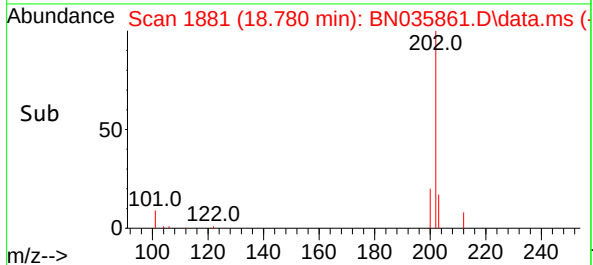
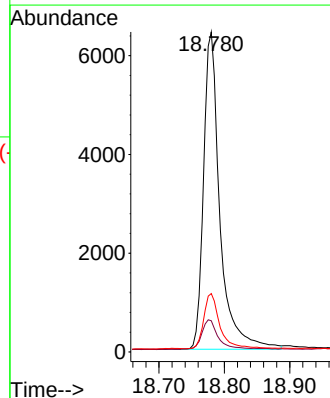
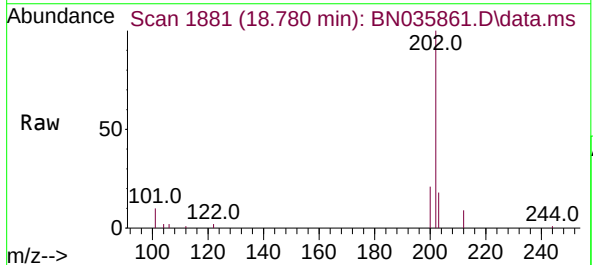
Manual Integrations
APPROVED

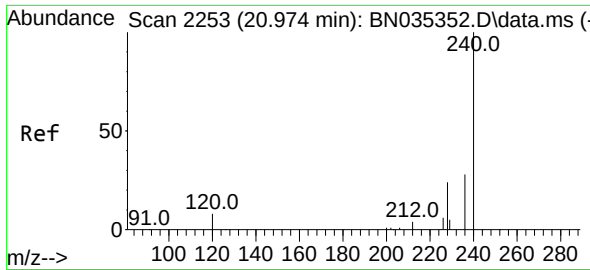
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145
Ion Ratio Lower Upper
202 100
101 9.7 7.4 11.0
203 17.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

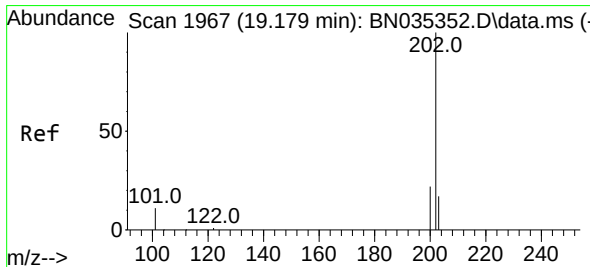
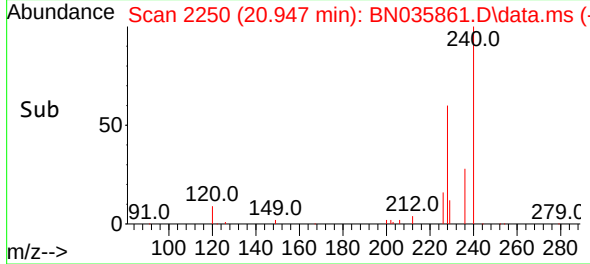
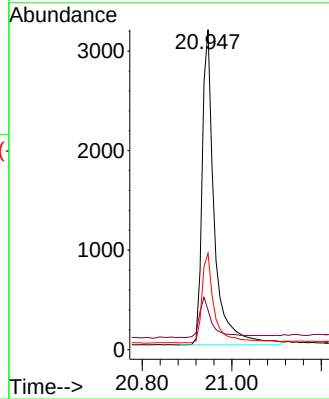
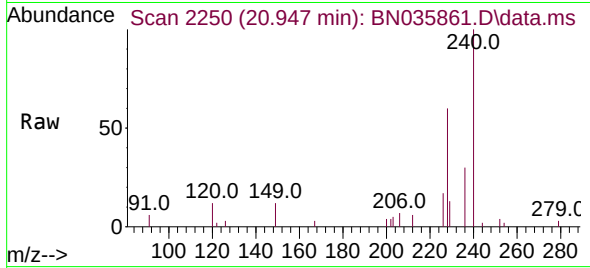
SSTDCCC0.4EC

Tgt Ion:	240	Resp:	602
Ion Ratio	Lower	Upper	
240	100		
120	12.3	7.9	11.9
236	30.1	22.9	34.3

Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#30

Pyrene

Concen: 0.517 ng

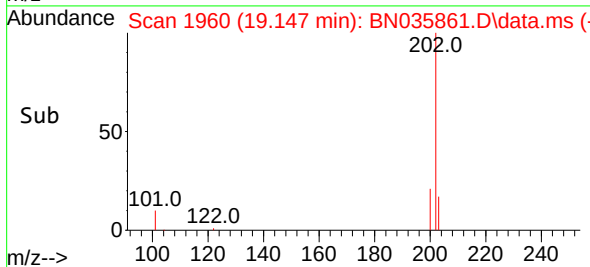
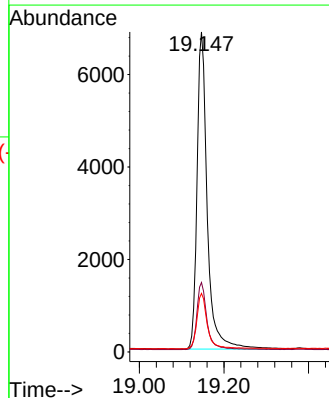
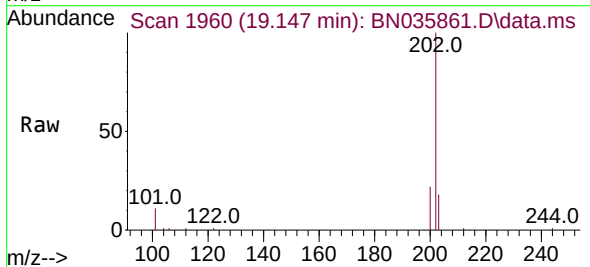
RT: 19.147 min Scan# 1960

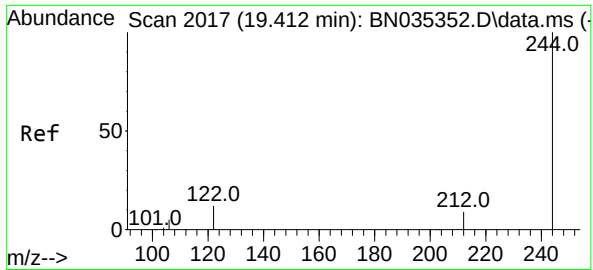
Delta R.T. -0.014 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Tgt Ion:	202	Resp:	11492
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.0	25.4
203	18.0	14.3	21.5





#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

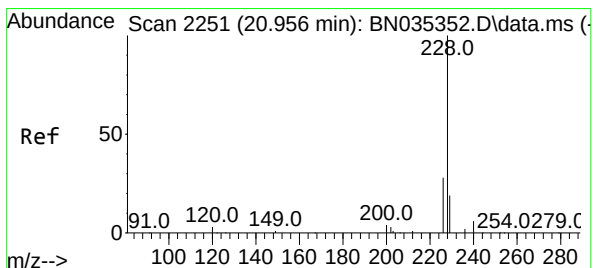
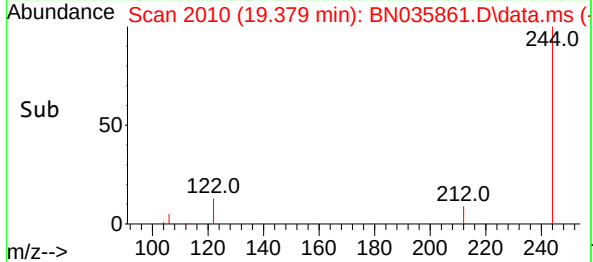
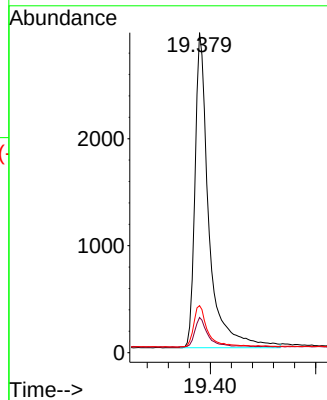
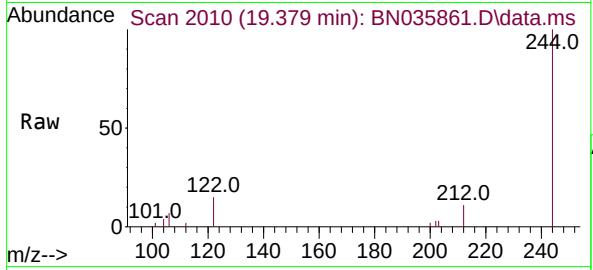
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5

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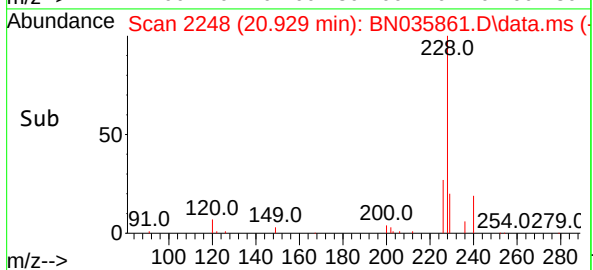
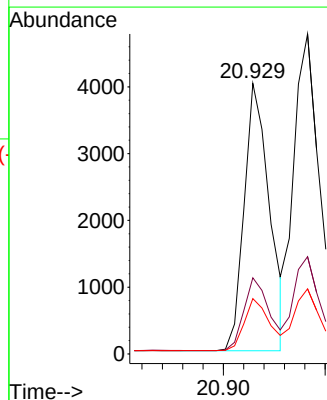
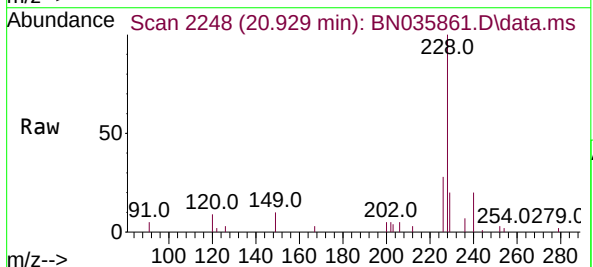
Reviewed By :Yogesh Patel 12/27/2024

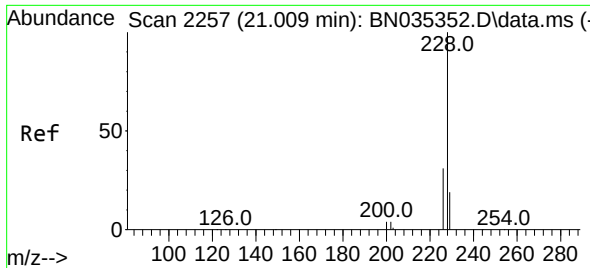
Supervised By :mohammad ahmed 12/30/2024



#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8





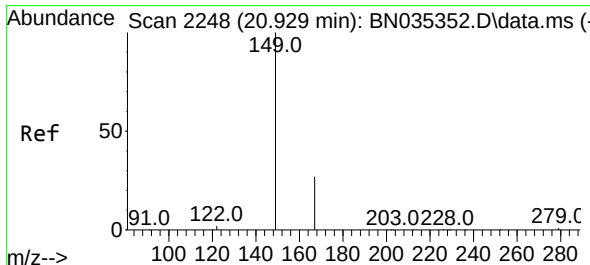
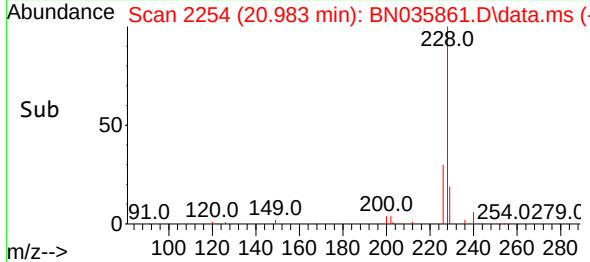
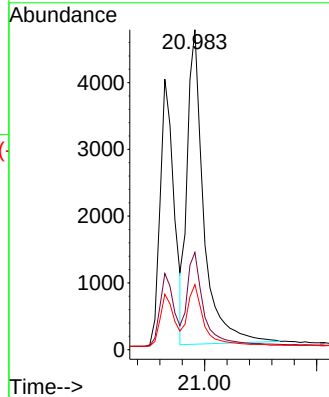
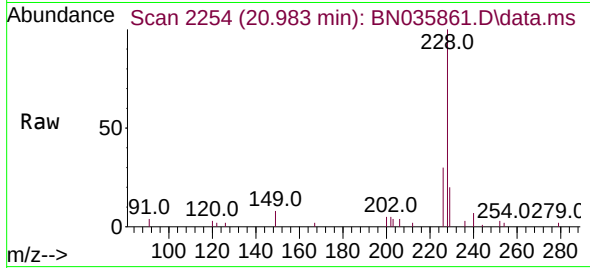
#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 9578
Ion Ratio Lower Upper
228 100
226 30.4 24.6 37.0
229 20.3 15.9 23.9

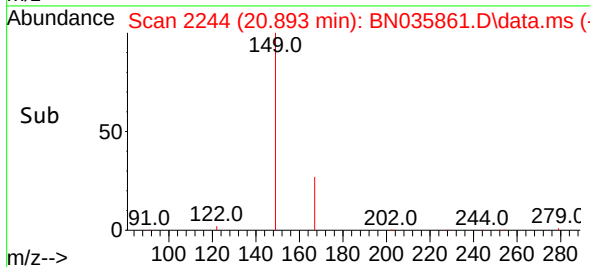
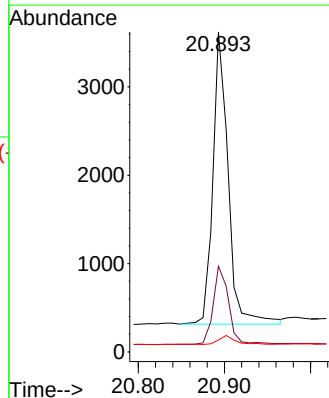
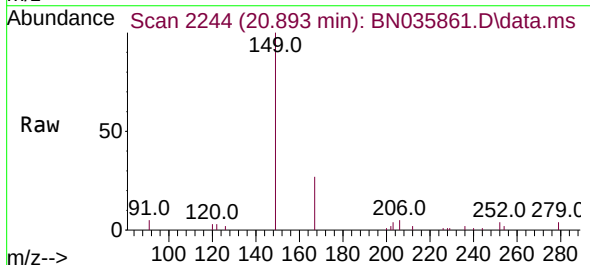
Manual Integrations
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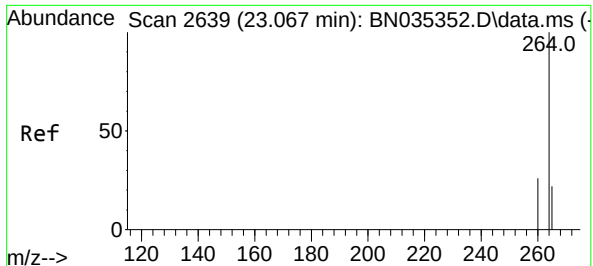
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069
Ion Ratio Lower Upper
149 100
167 27.2 22.2 33.4
279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.026 min Scan# 2625

Delta R.T. -0.015 min

Lab File: BN035861.D

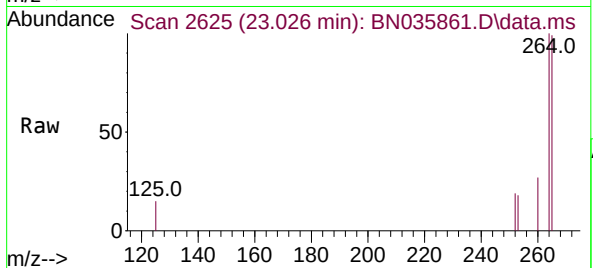
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:264 Resp: 5699

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.2

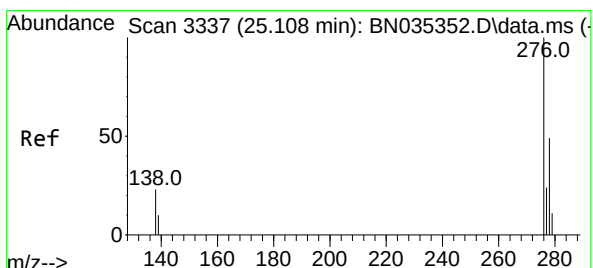
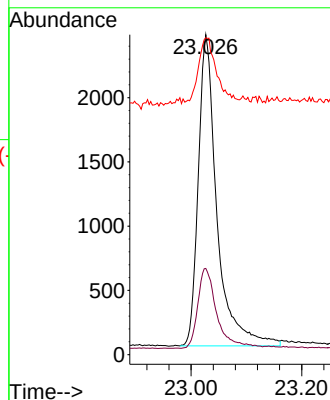
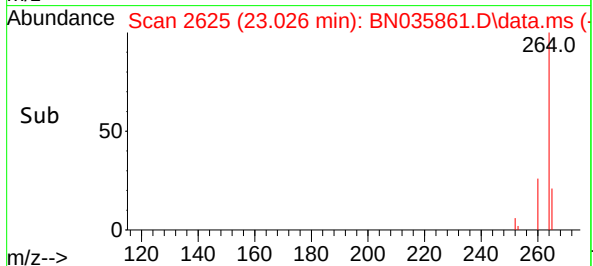
265 99.1 40.2 60.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#36

Indeno(1,2,3-cd)pyrene

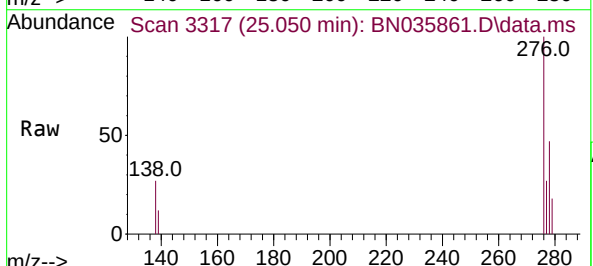
Concen: 0.405 ng

RT: 25.050 min Scan# 3317

Delta R.T. -0.018 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41



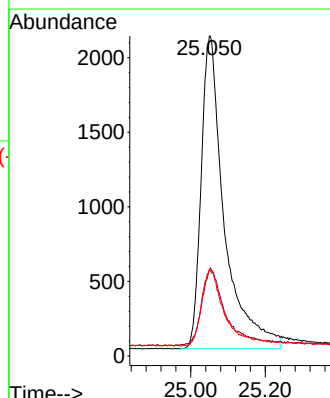
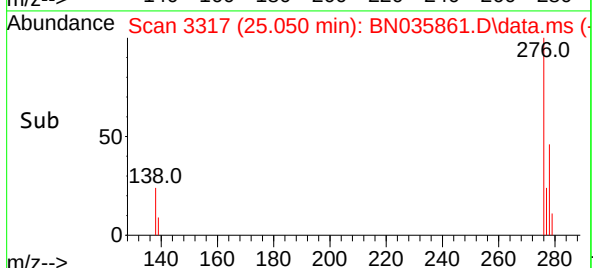
Tgt Ion:276 Resp: 9030

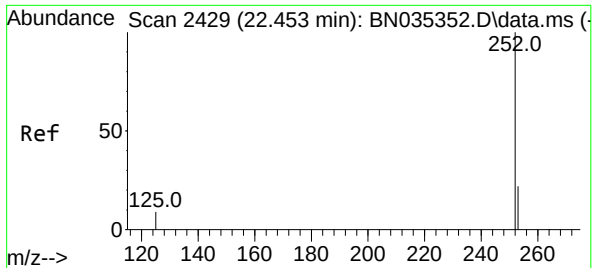
Ion Ratio Lower Upper

276 100

138 24.8 19.4 29.0

277 23.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.566 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

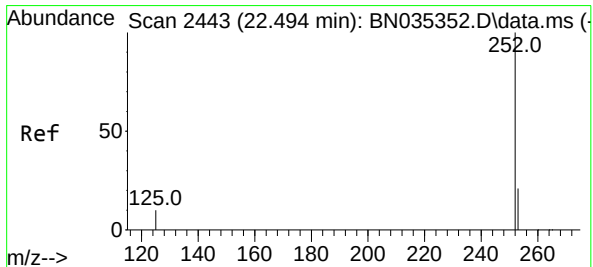
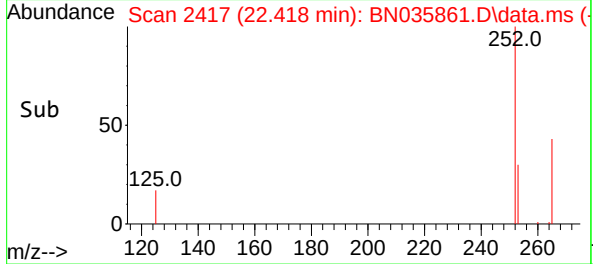
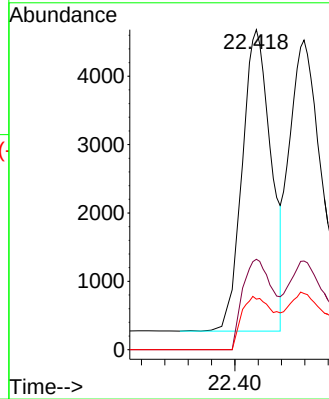
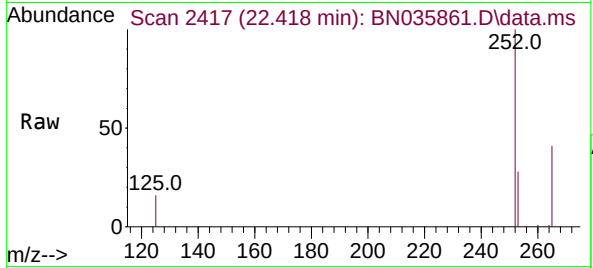
Tgt Ion:252	Resp:	1180
Ion Ratio	Lower	Upper
252	100	
253	28.3	19.6 29.4
125	15.8	9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#38

Benzo(k)fluoranthene

Concen: 0.470 ng

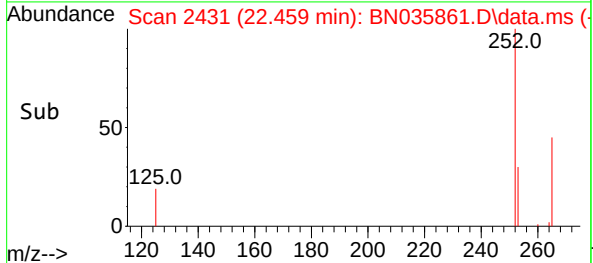
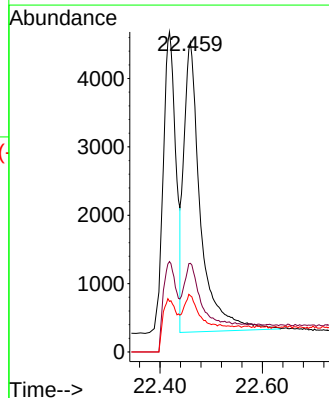
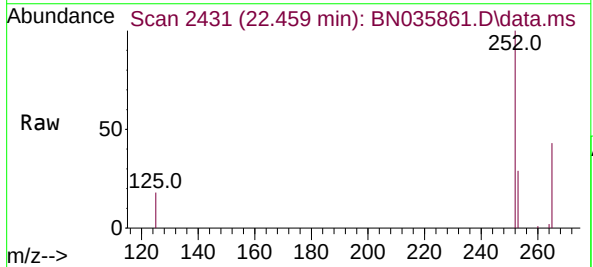
RT: 22.459 min Scan# 2431

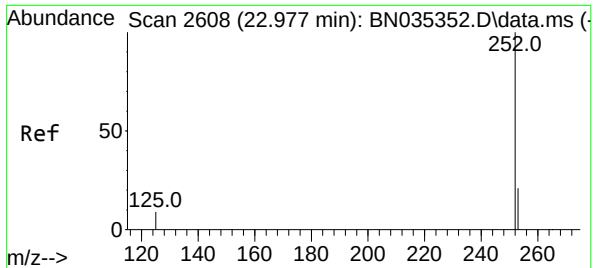
Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Tgt Ion:252	Resp:	9638
Ion Ratio	Lower	Upper
252	100	
253	28.6	19.5 29.3
125	18.2	10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

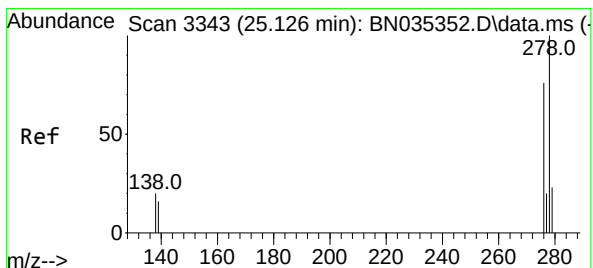
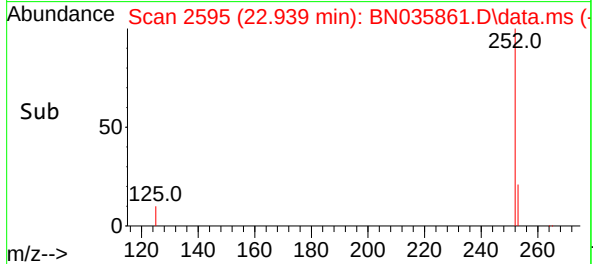
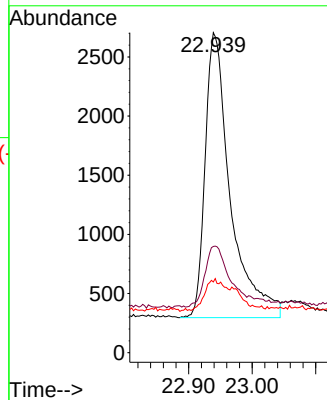
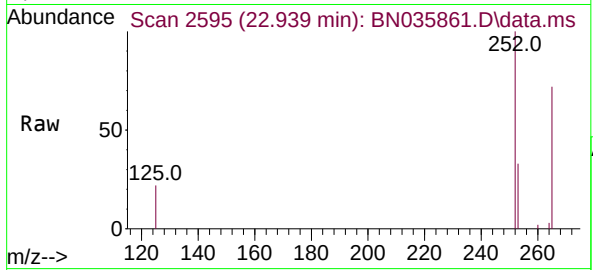
Tgt Ion:252	Resp:	664
Ion Ratio	Lower	Upper
252	100	
253	33.2	20.2 30.4
125	22.1	10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.377 ng

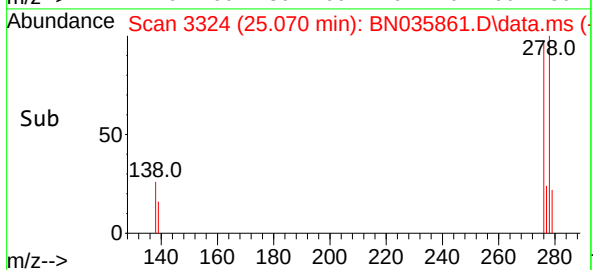
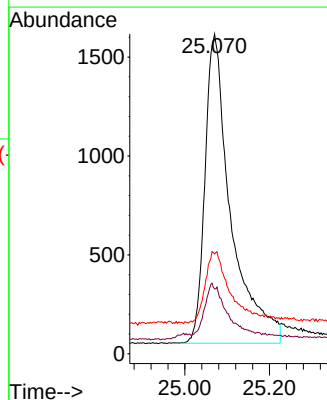
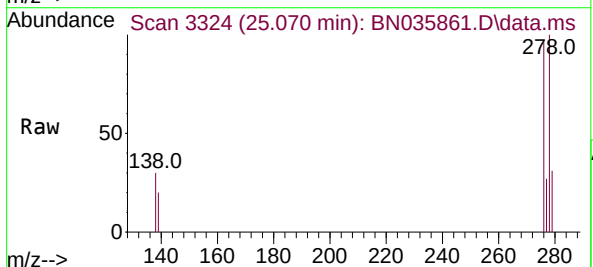
RT: 25.070 min Scan# 3324

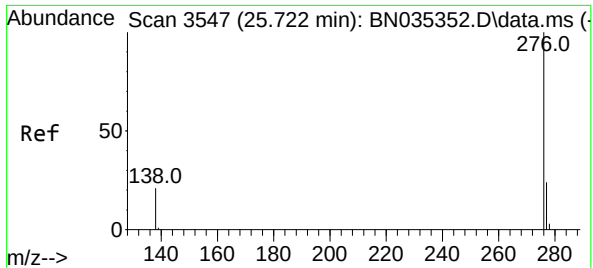
Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Tgt Ion:278	Resp:	6633
Ion Ratio	Lower	Upper
278	100	
139	20.3	14.2 21.4
279	31.2	20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.452 ng

RT: 25.652 min Scan# 31

Delta R.T. -0.026 min

Lab File: BN035861.D

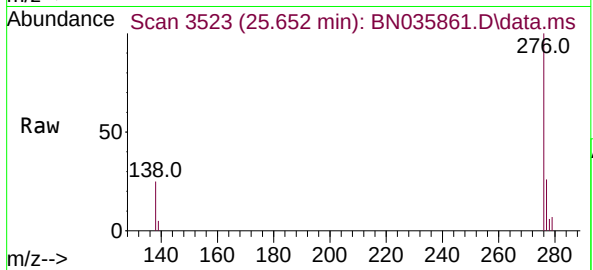
Acq: 26 Dec 2024 19:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 8300

Ion Ratio Lower Upper

276 100

277 26.3 19.9 29.9

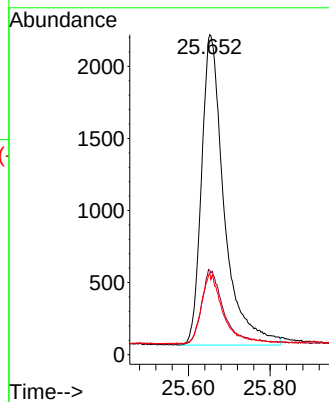
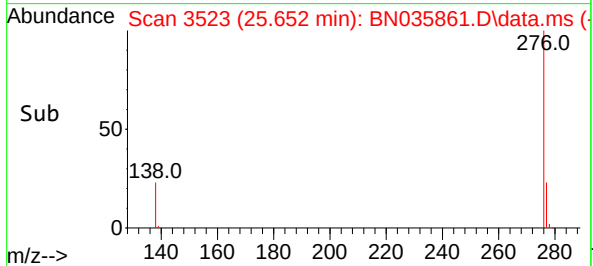
138 25.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	151#	-0.01
2	1,4-Dioxane	0.382	0.394	-3.1	158#	0.00
3	n-Nitrosodimethylamine	0.319	0.331	-3.8	153#	0.00
4 S	2-Fluorophenol	1.001	0.931	7.0	138	-0.01
5 S	Phenol-d6	1.204	1.022	15.1	129	-0.02
6	bis(2-Chloroethyl)ether	1.012	0.883	12.7	134	-0.02
7 I	Naphthalene-d8	1.000	1.000	0.0	138	-0.02
8 S	Nitrobenzene-d5	0.244	0.306	-25.4#	180#	-0.01
9	Naphthalene	1.055	1.038	1.6	137	-0.01
10	Hexachlorobutadiene	0.243	0.275	-13.2	154#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.626	0.551	12.0	123	-0.02
12	2-Methylnaphthalene	0.755	0.655	13.2	123	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.02
14 S	2,4,6-Tribromophenol	0.284	0.225	20.8	103	-0.01
15 S	2-Fluorobiphenyl	1.512	1.480	2.1	115	-0.02
16	Acenaphthylene	1.680	1.548	7.9	114	-0.02
17	Acenaphthene	1.115	1.068	4.2	116	-0.02
18	Fluorene	1.596	1.449	9.2	110	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.048	-23.1	134	-0.01
21	4-Bromophenyl-phenylether	0.234	0.221	5.6	97	-0.01
22	Hexachlorobenzene	0.275	0.322	-17.1	116	-0.02
23	Atrazine	0.167	0.161	3.6	103	0.00
24	Pentachlorophenol	0.120	0.090	25.0	93	-0.01
25	Phenanthrene	1.099	1.035	5.8	96	-0.01
26	Anthracene	0.994	0.864	13.1	91	-0.01
27 SURR	Fluoranthene-d10	1.134	0.922	18.7	85	-0.01
28	Fluoranthene	1.481	1.189	19.7	83	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	63	0.00
30	Pyrene	1.477	1.909	-29.2#	82	-0.01
31 S	Terphenyl-d14	0.789	0.898	-13.8	72	0.00
32	Benzo(a)anthracene	1.399	1.146	18.1	53	0.00
33	Chrysene	1.443	1.591	-10.3	70	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.676	-22.2	83	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	53	-0.01
36	Indeno(1,2,3-cd)pyrene	1.564	1.584	-1.3	54	-0.02
37	Benzo(b)fluoranthene	1.463	2.071	-41.6#	83	-0.01
38	Benzo(k)fluoranthene	1.440	1.691	-17.4	63	-0.01
39 C	Benzo(a)pyrene	1.205	1.165	3.3	53	-0.01
40	Dibenzo(a,h)anthracene	1.234	1.164	5.7	51	-0.01
41	Benzo(g,h,i)perylene	1.289	1.456	-13.0	61	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	151	-0.01
2	1,4-Dioxane	0.400	0.412	-3.0	158	0.00
3	n-Nitrosodimethylamine	0.400	0.415	-3.7	153	0.00
4 S	2-Fluorophenol	0.400	0.372	7.0	138	-0.01
5 S	Phenol-d6	0.400	0.340	15.0	129	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.349	12.8	134	-0.02
7 I	Naphthalene-d8	0.400	0.400	0.0	138	-0.02
8 S	Nitrobenzene-d5	0.400	0.501	-25.2#	180	-0.01
9	Naphthalene	0.400	0.394	1.5	137	-0.01
10	Hexachlorobutadiene	0.400	0.452	-13.0	154	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	123	-0.02
12	2-Methylnaphthalene	0.400	0.347	13.3	123	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	118	-0.02
14 S	2,4,6-Tribromophenol	0.400	0.318	20.5	103	-0.01
15 S	2-Fluorobiphenyl	0.400	0.392	2.0	115	-0.02
16	Acenaphthylene	0.400	0.369	7.8	114	-0.02
17	Acenaphthene	0.400	0.383	4.3	116	-0.02
18	Fluorene	0.400	0.363	9.3	110	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.492	-23.0	134	-0.01
21	4-Bromophenyl-phenylether	0.400	0.378	5.5	97	-0.01
22	Hexachlorobenzene	0.400	0.468	-17.0	116	-0.02
23	Atrazine	0.400	0.386	3.5	103	0.00
24	Pentachlorophenol	0.400	0.302	24.5	93	-0.01
25	Phenanthrene	0.400	0.377	5.8	96	-0.01
26	Anthracene	0.400	0.348	13.0	91	-0.01
27 SURR	Fluoranthene-d10	0.400	0.325	18.8	85	-0.01
28	Fluoranthene	0.400	0.321	19.8	83	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	63	0.00
30	Pyrene	0.400	0.517	-29.3#	82	-0.01
31 S	Terphenyl-d14	0.400	0.455	-13.7	72	0.00
32	Benzo(a)anthracene	0.400	0.328	18.0	53	0.00
33	Chrysene	0.400	0.441	-10.2	70	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.489	-22.2	83	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	53	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.405	-1.3	54	-0.02
37	Benzo(b)fluoranthene	0.400	0.566	-41.5#	83	-0.01
38	Benzo(k)fluoranthene	0.400	0.470	-17.5	63	-0.01
39 C	Benzo(a)pyrene	0.400	0.387	3.3	53	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.377	5.8	51	-0.01
41	Benzo(g,h,i)perylene	0.400	0.452	-13.0	61	-0.03

(#) = Out of Range

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



QC SAMPLE DATA

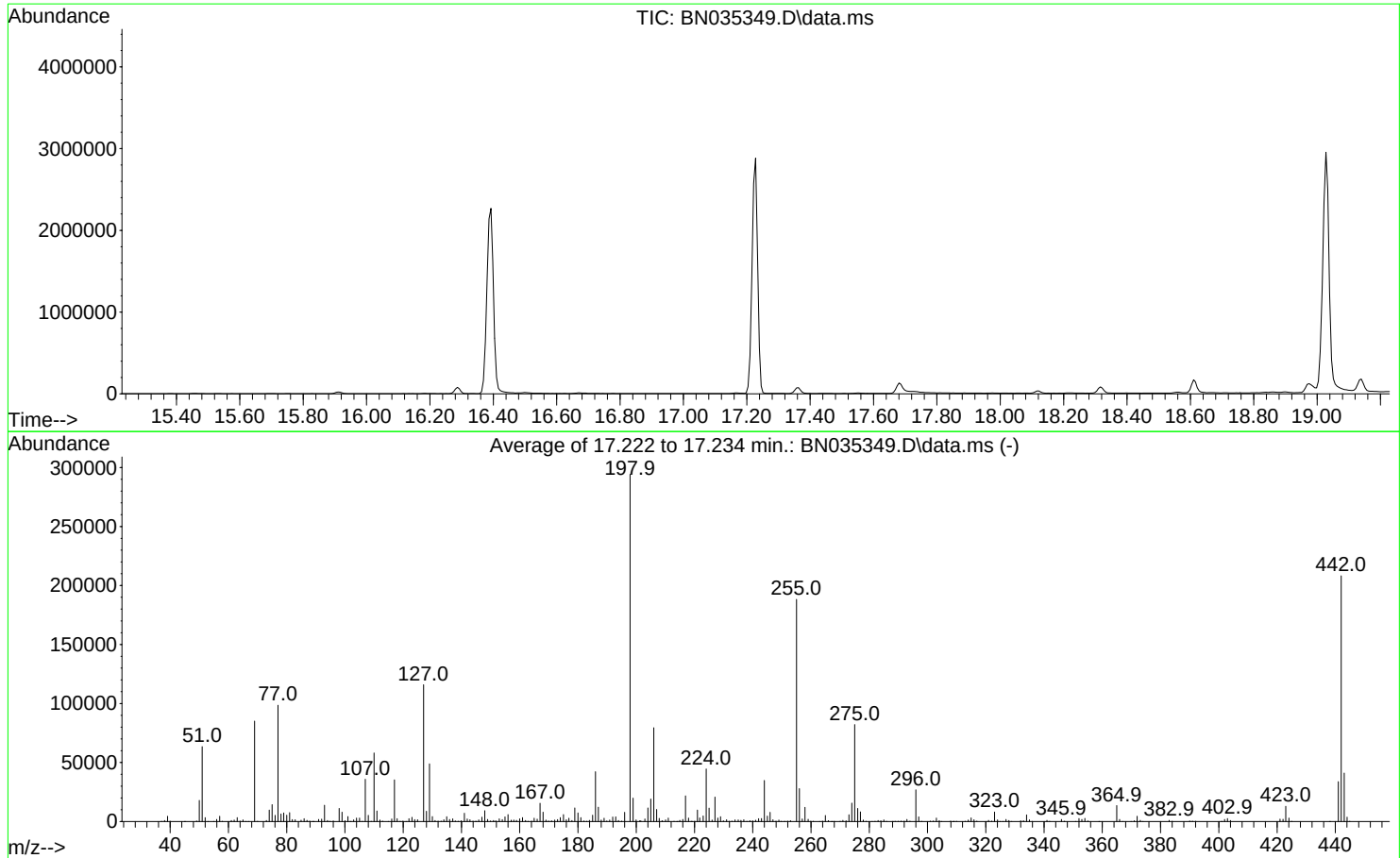
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

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



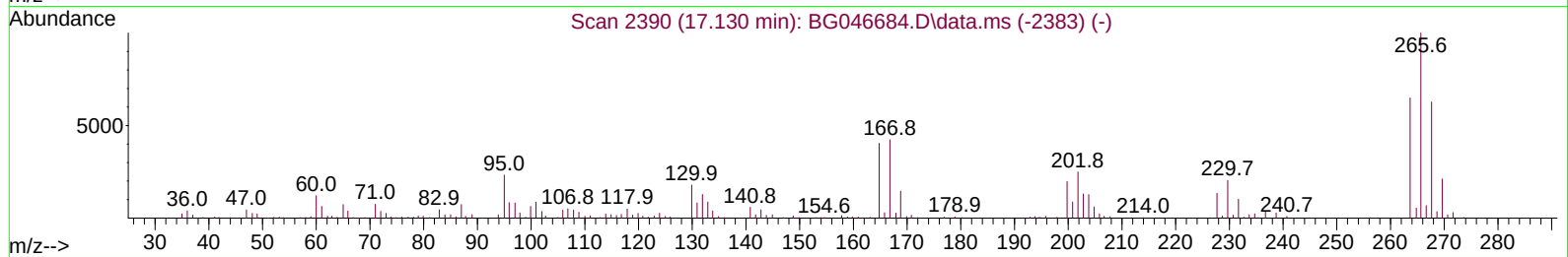
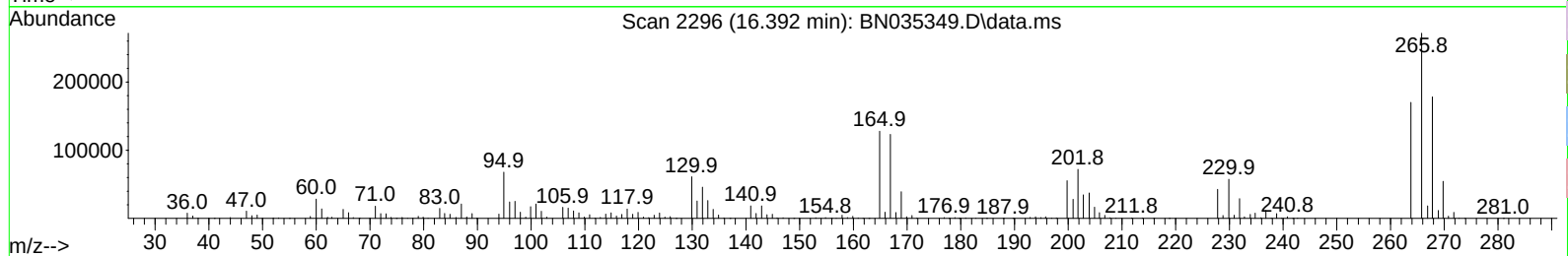
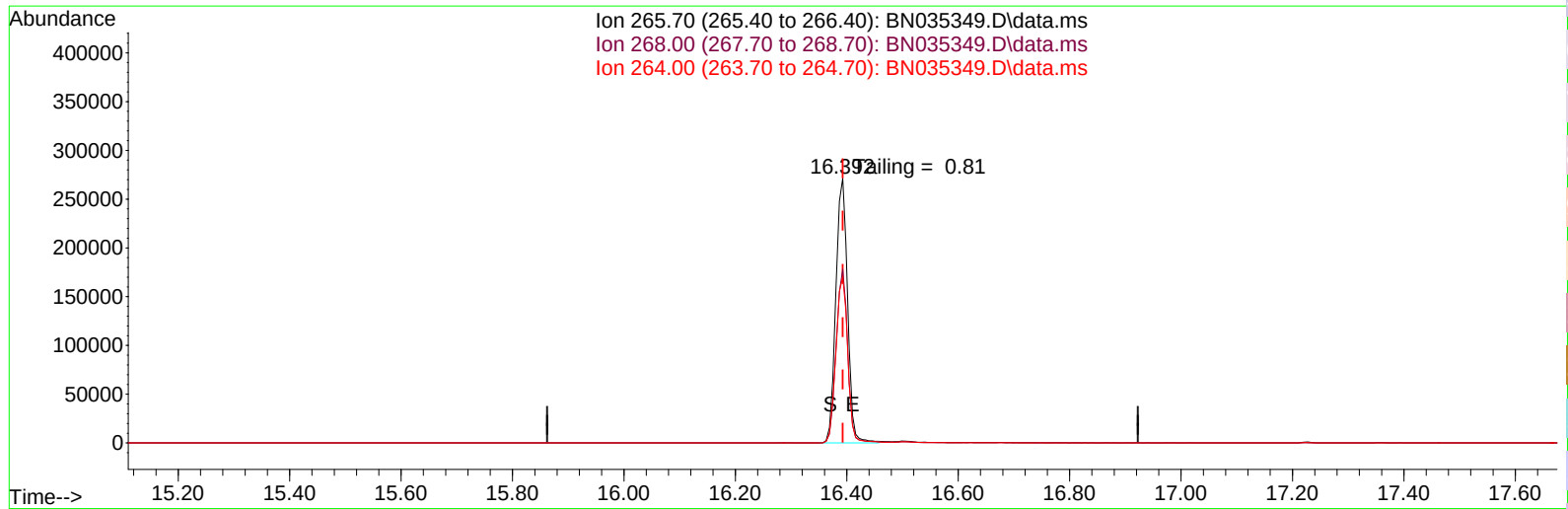
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

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

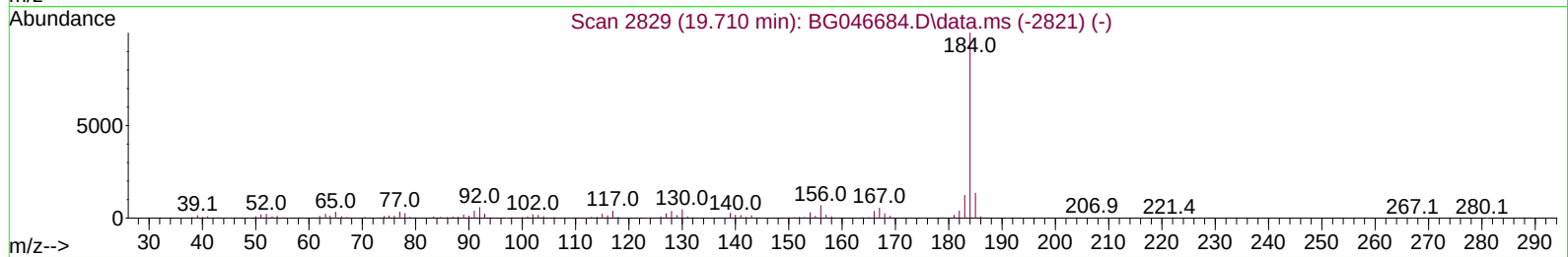
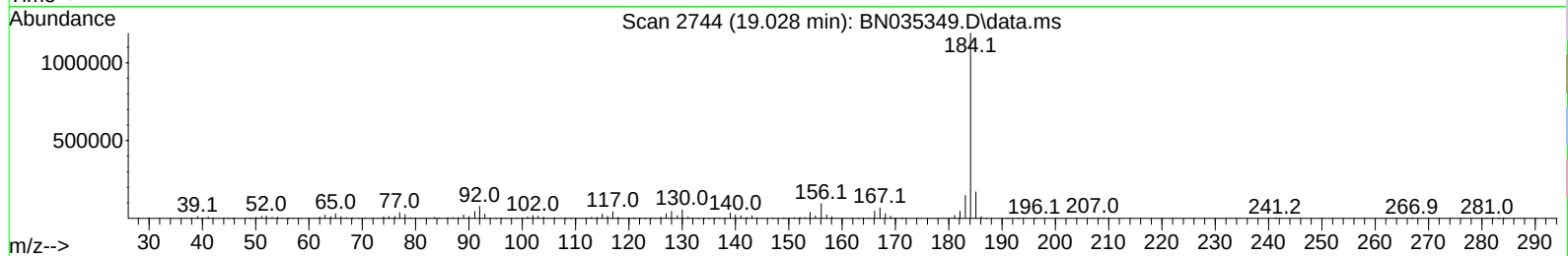
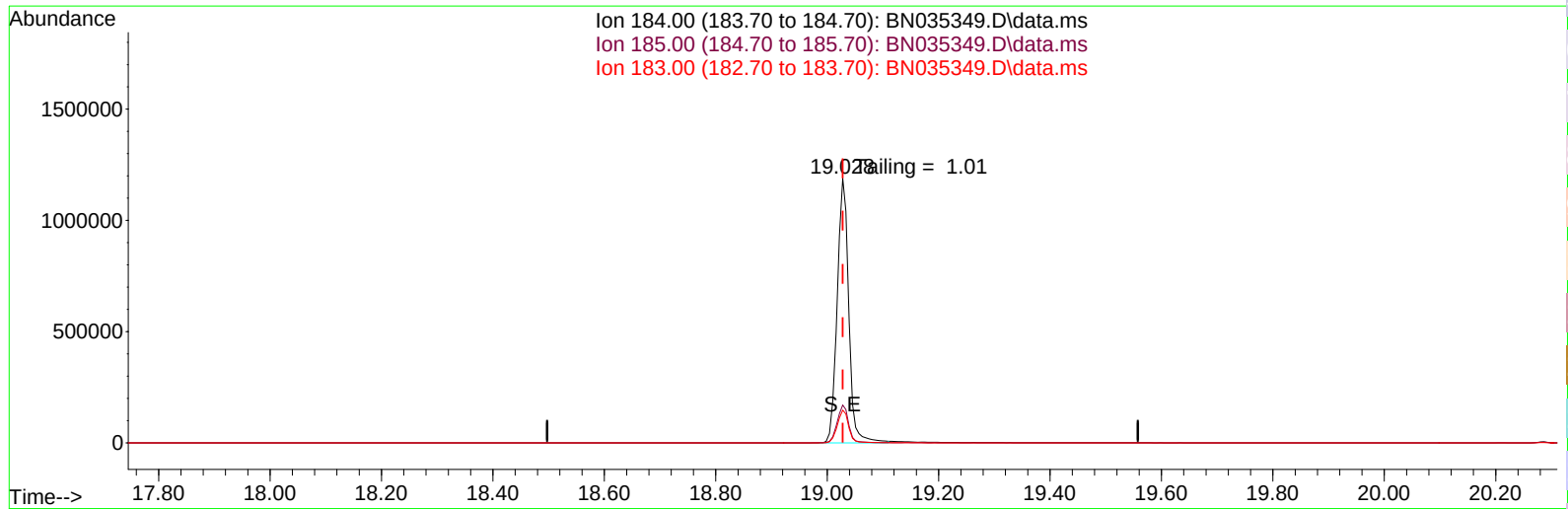
response 398074

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

DDT Breakdown

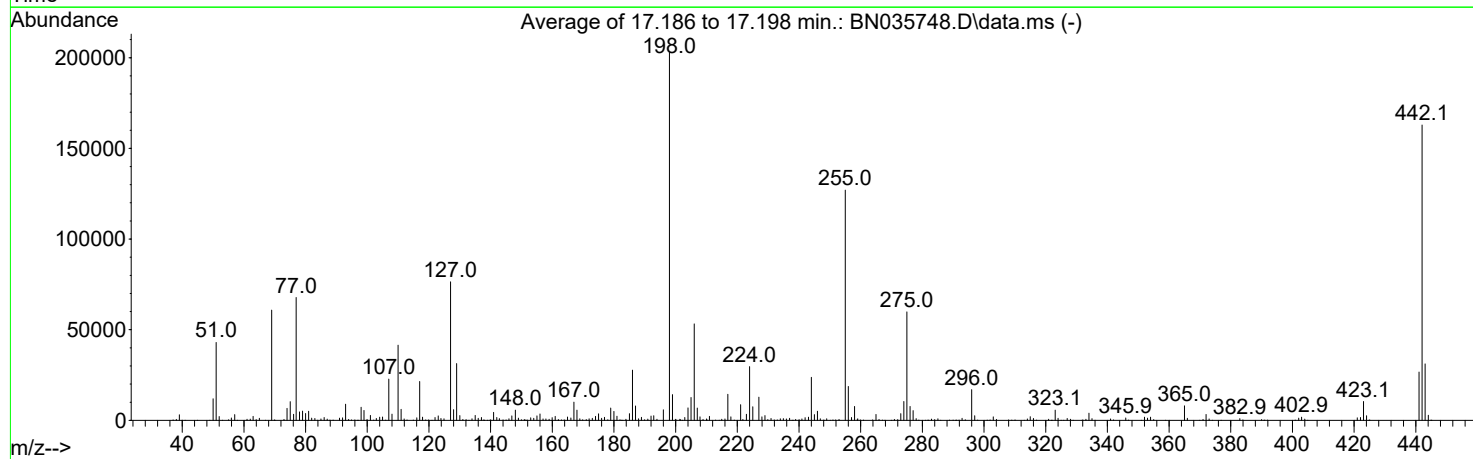
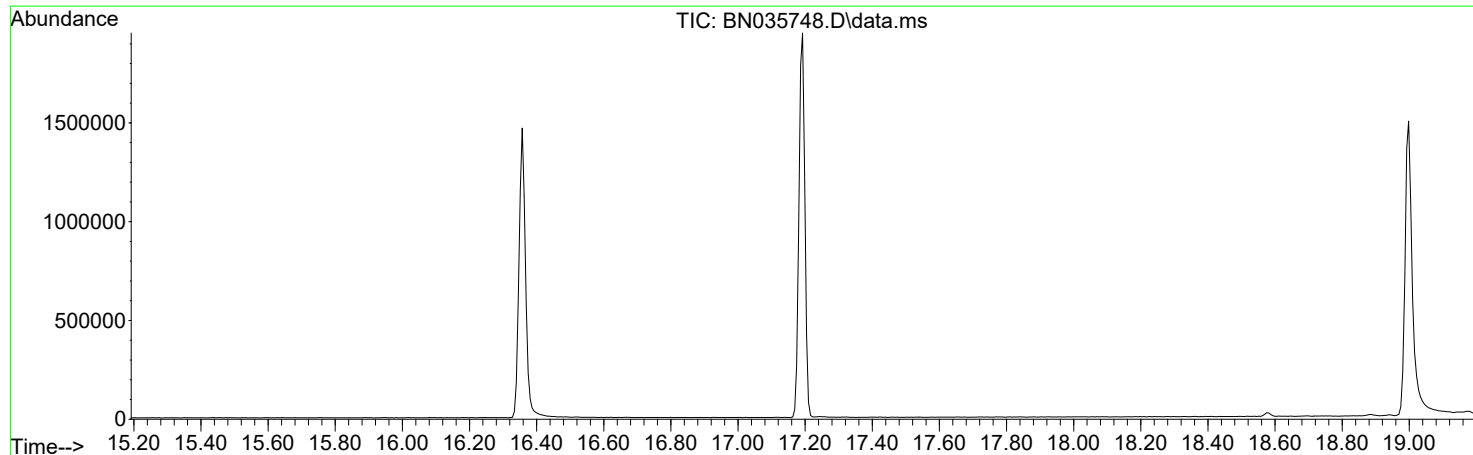
Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	<u>BN035349.D</u>
Compound Name	Response	Retention Time
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28214	1013671	2.78

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035748.D
Acq On : 20 Dec 2024 18:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 39 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



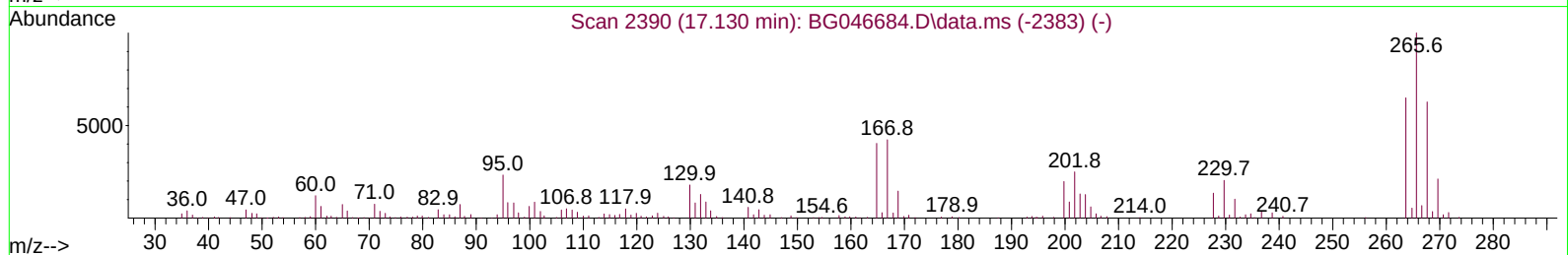
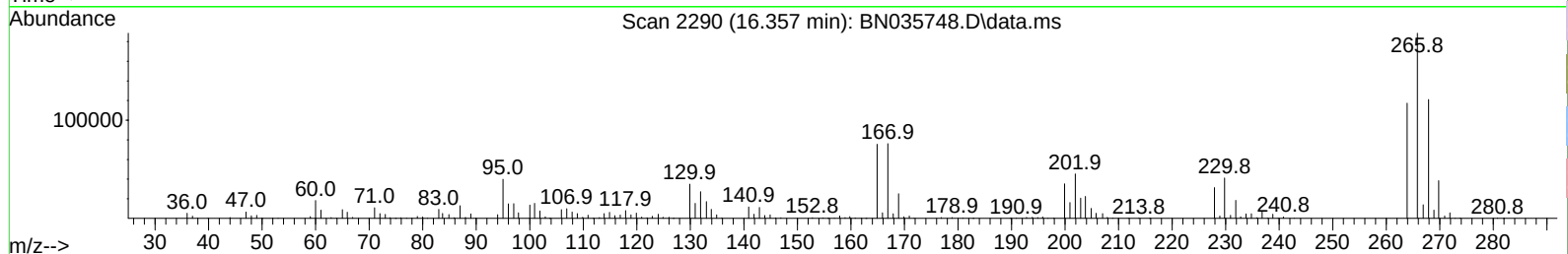
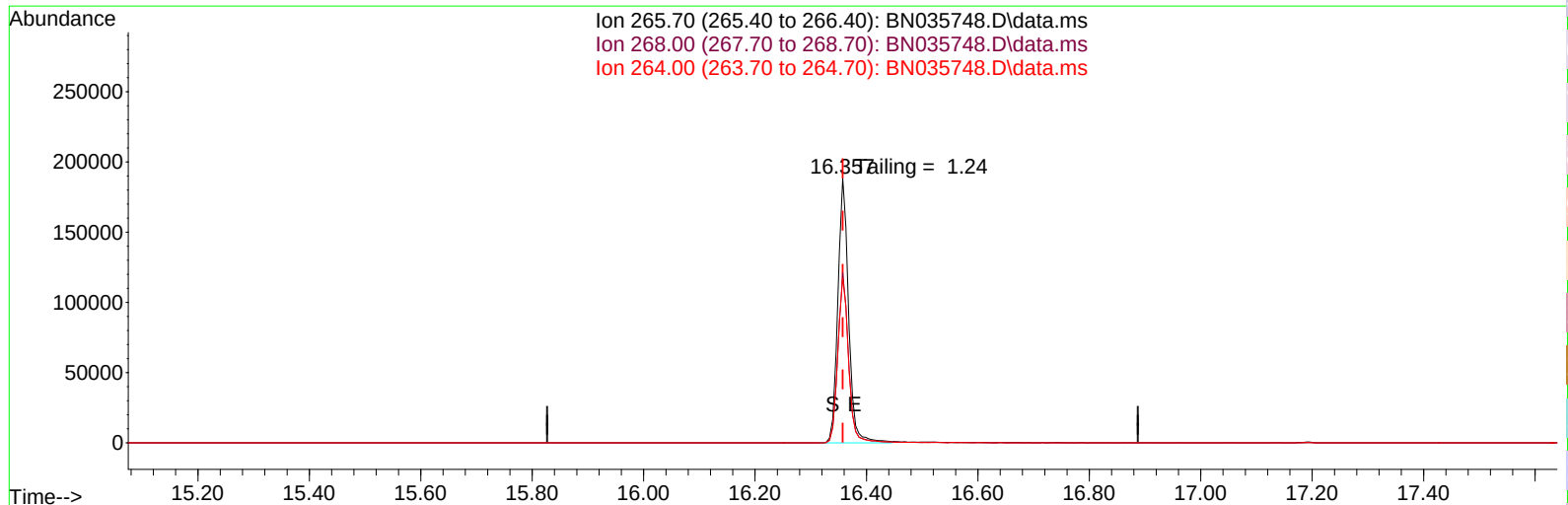
AutoFind: Scans 2431, 2432, 2433; Background Corrected with Scan 2424

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.2	43029	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.0	60827	PASS
70	69	0.00	2	0.5	295	PASS
127	198	10	80	37.7	76443	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	202901	PASS
199	198	5	9	7.0	14189	PASS
275	198	10	60	29.5	59856	PASS
365	198	1	100	4.0	8044	PASS
441	198	0.01	100	13.1	26624	PASS
442	442	50	100	100.0	162944	PASS
443	442	15	24	19.1	31128	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035748.D
Acq On : 20 Dec 2024 18:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 21 02:12:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 21 02:12:53 2024
Response via : Initial Calibration



TIC: BN035748.D\data.ms

(70) Pentachlorophenol (C)

16.357min (0.000) 26492.80 ng

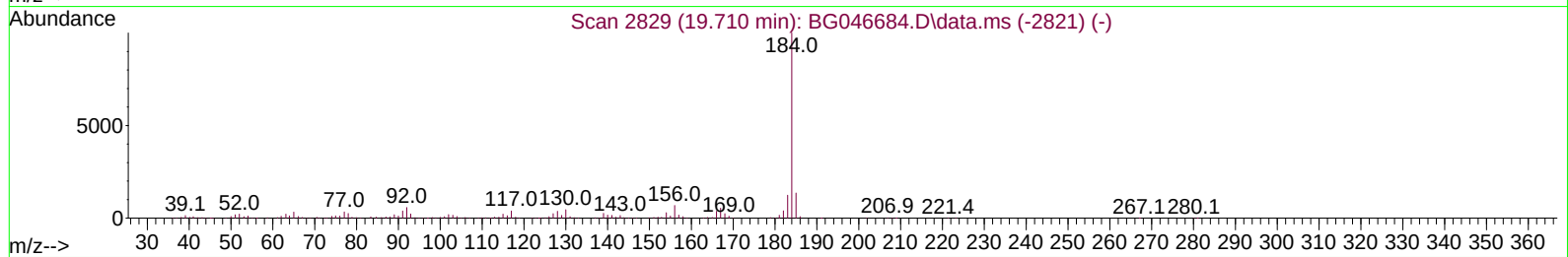
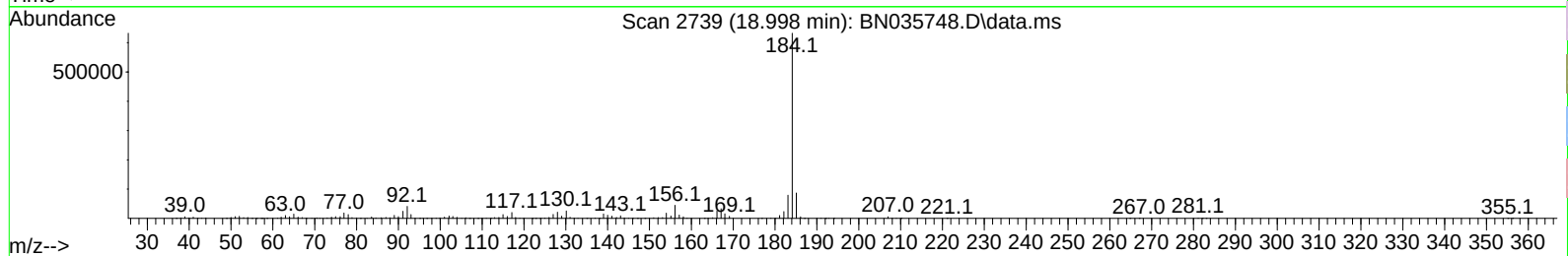
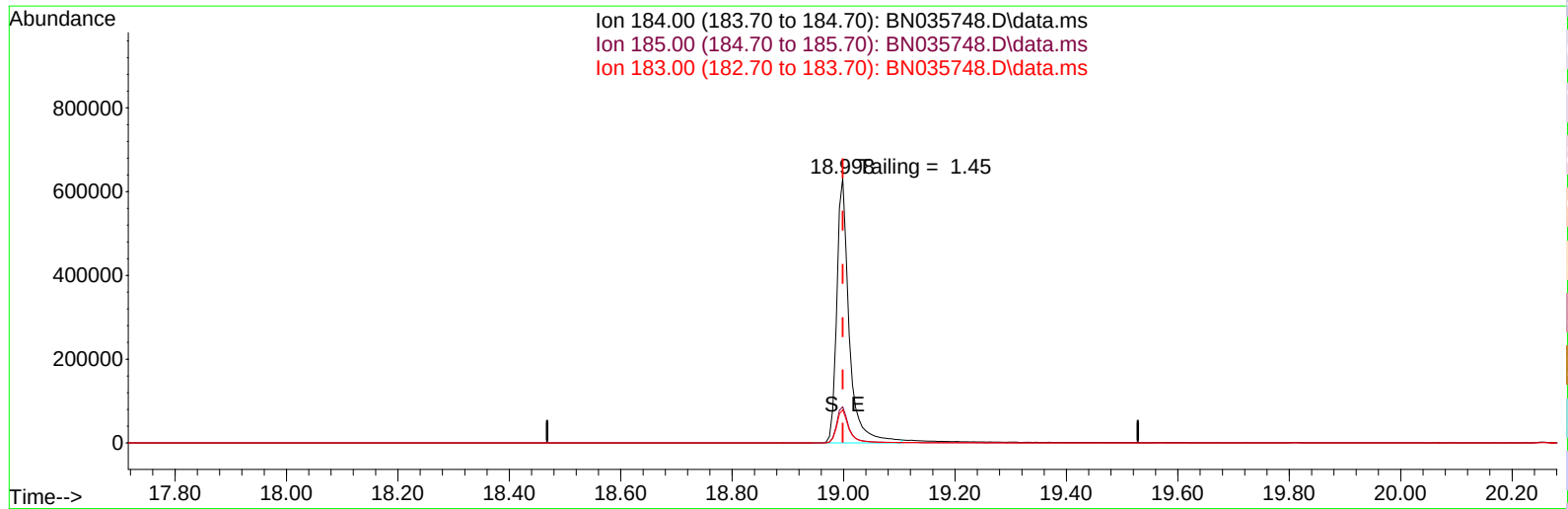
response 255312

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.24
264.00	61.60	62.22
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035748.D
Acq On : 20 Dec 2024 18:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 21 02:12:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 21 02:12:53 2024
Response via : Initial Calibration



TIC: BN035748.D\data.ms

(77) Benzidine

18.998min (0.000) 0.00 ng

response 1005370

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.70
183.00	13.20	12.52
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

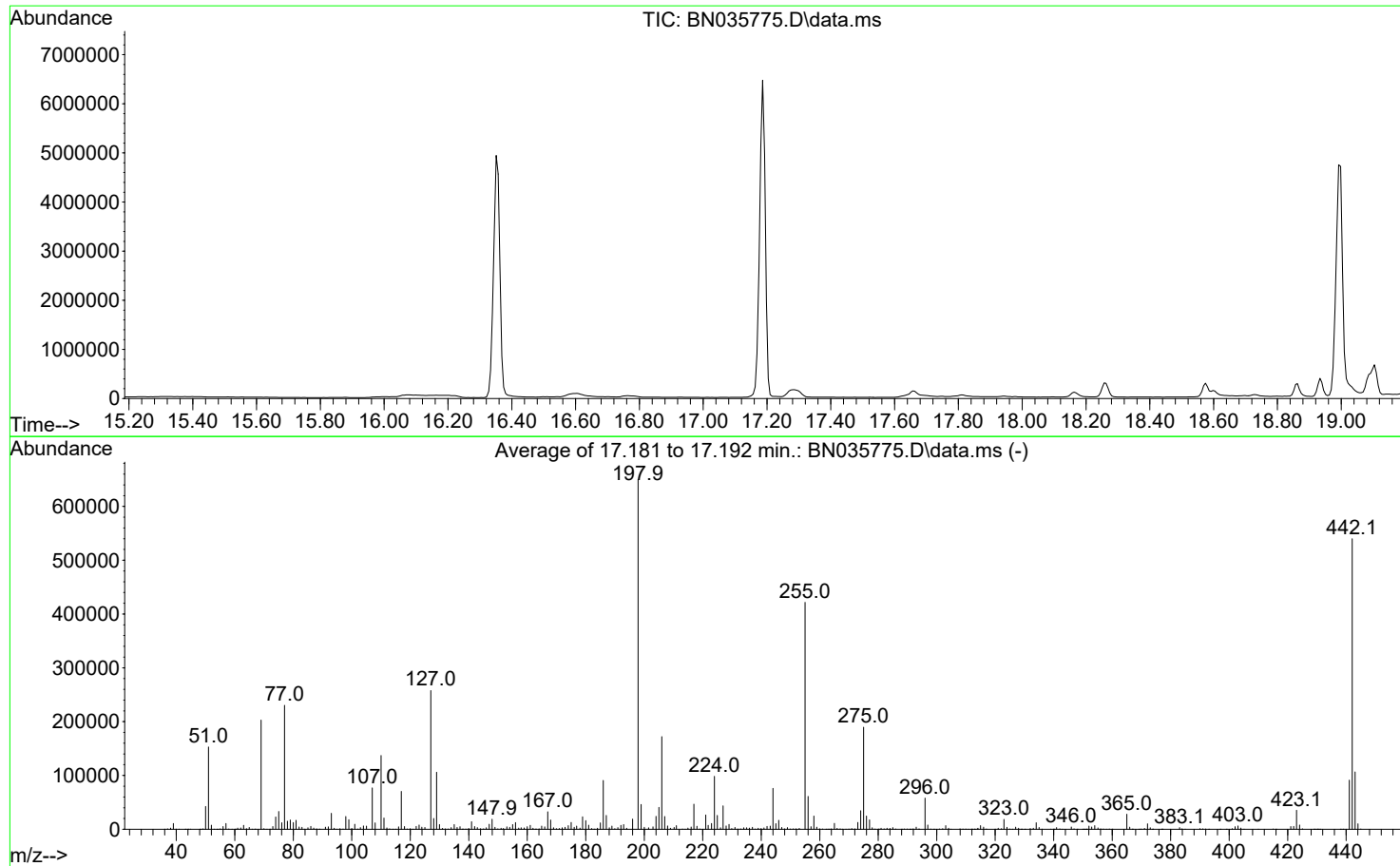
Date	Instrument Name	DFTPP Data File
12/19/2024	BNA_N	<u>BN035748.D</u>
Compound Name	Response	Retention Time
DDT	418200	20.257
DDD	184217	19.816
DDE	2622	19.292
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
186839	605039	30.88

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



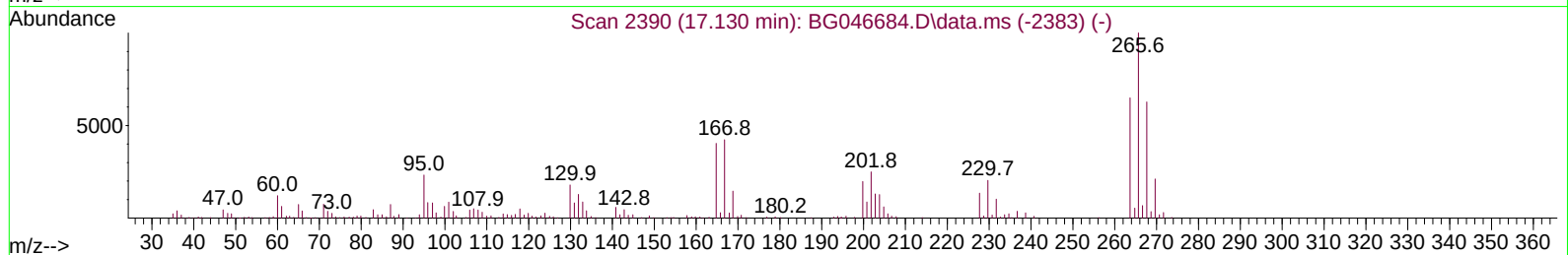
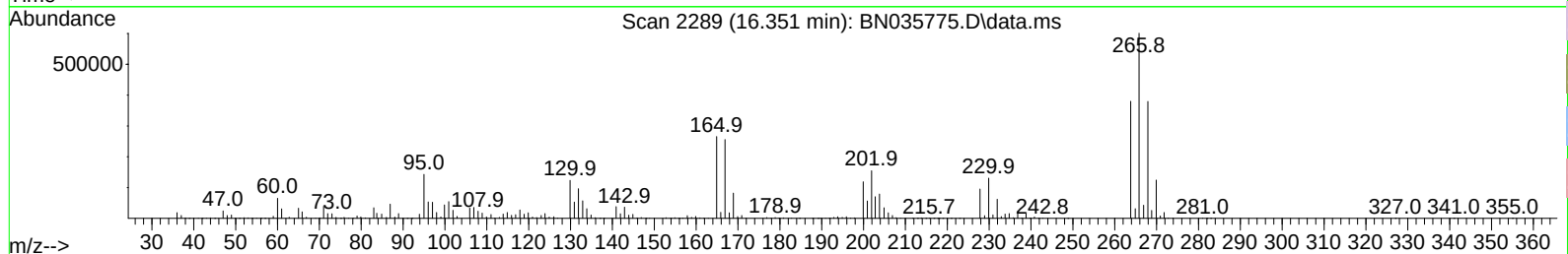
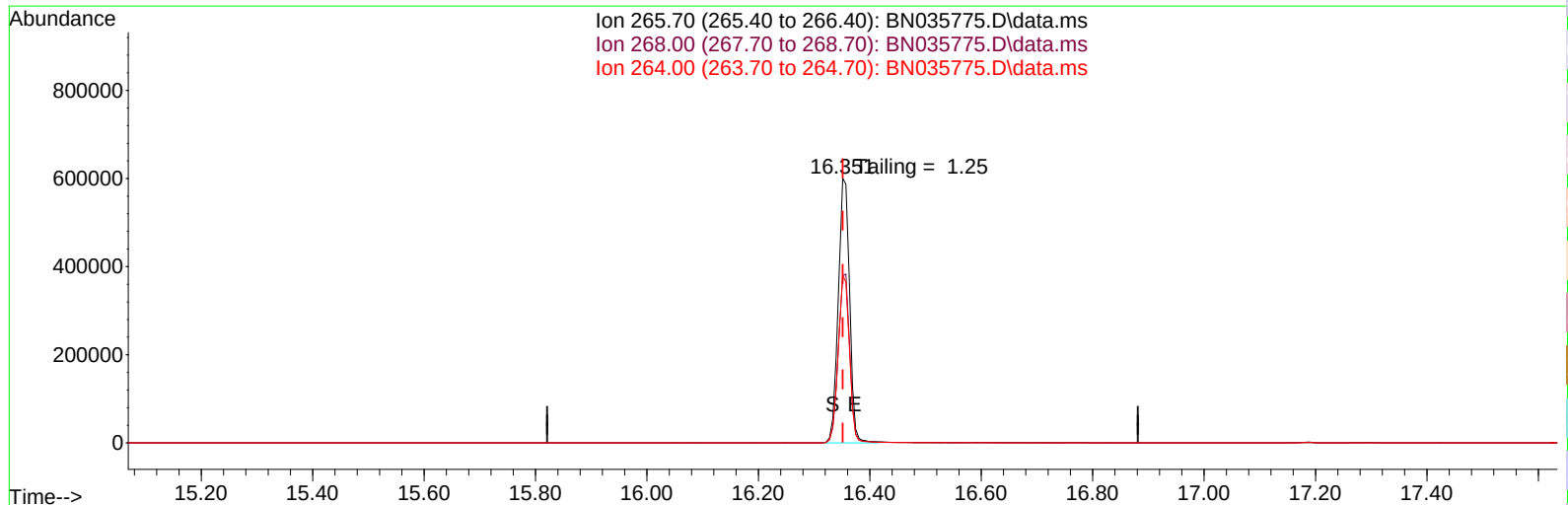
AutoFind: Scans 2430, 2431, 2432; Background Corrected with Scan 2422

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	23.6	153048	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.2	202884	PASS
70	69	0.00	2	0.6	1170	PASS
127	198	10	80	39.7	257941	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	649856	PASS
199	198	5	9	7.1	46155	PASS
275	198	10	60	29.2	189589	PASS
365	198	1	100	4.3	28056	PASS
441	198	0.01	100	14.0	91216	PASS
442	442	50	100	100.0	539989	PASS
443	442	15	24	19.7	106520	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:25:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:24:48 2024
Response via : Initial Calibration



TIC: BN035775.D\data.ms

(70) Pentachlorophenol (C)

16.351min (0.000) 26248.44 ng

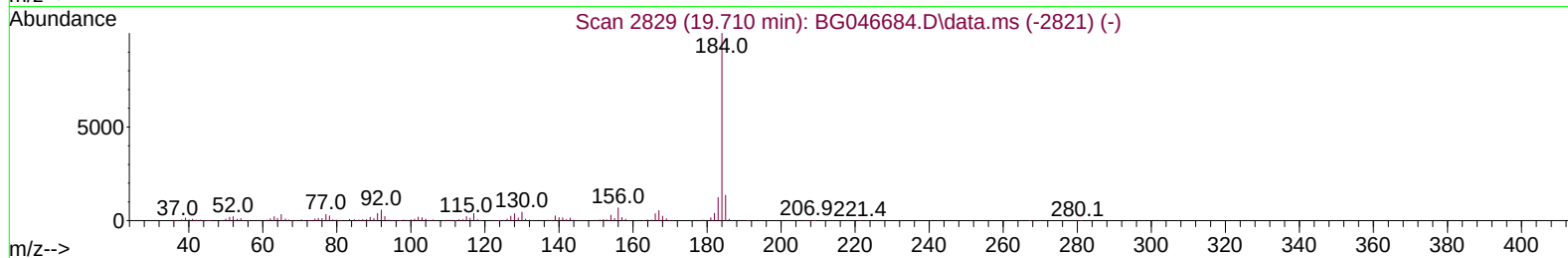
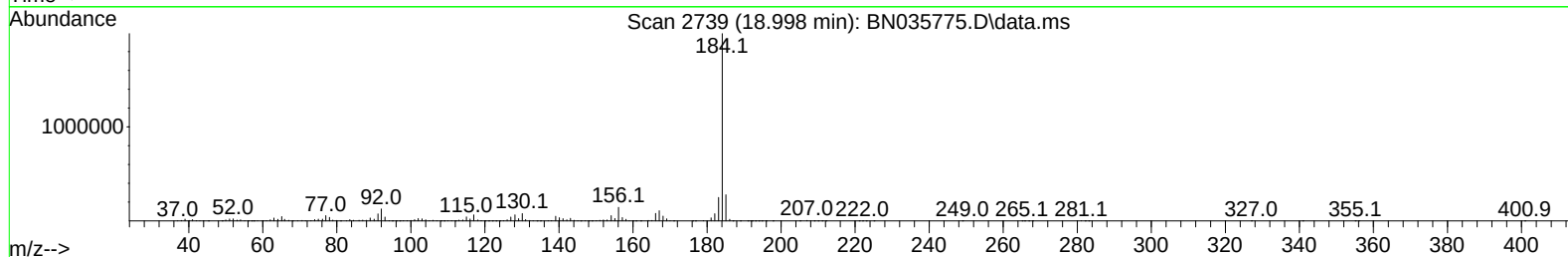
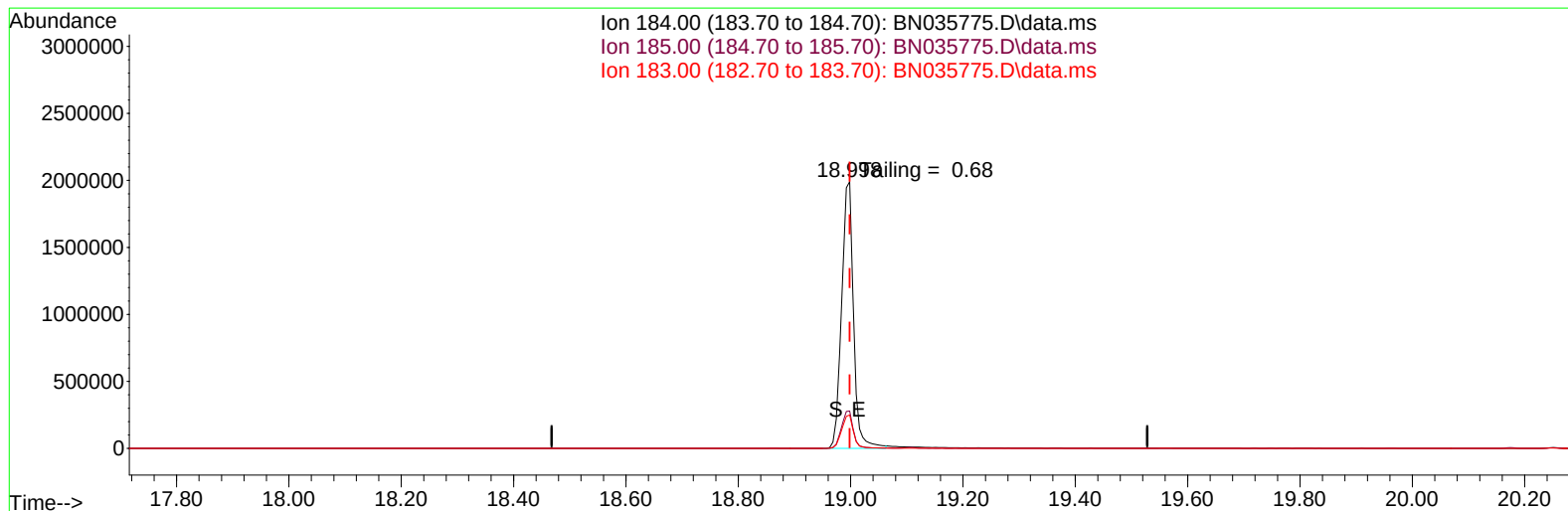
response 857335

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.12
264.00	61.60	63.23
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:25:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:24:48 2024
Response via : Initial Calibration



TIC: BN035775.D\data.ms

(77) Benzidine

18.998min (0.000) 0.00 ng

response 2997835

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.00
183.00	13.20	12.55
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

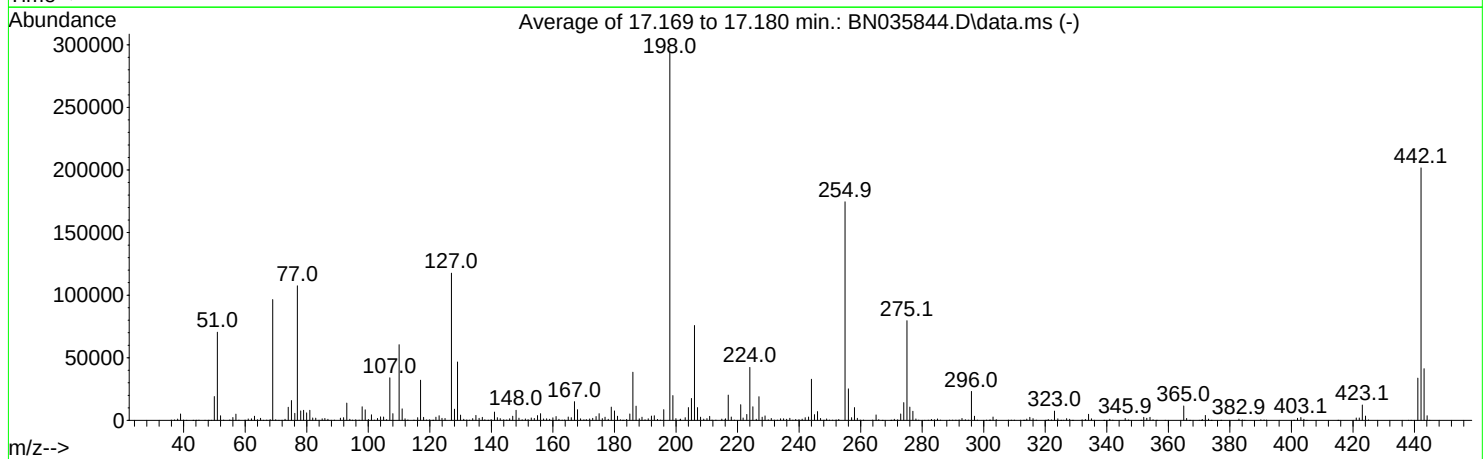
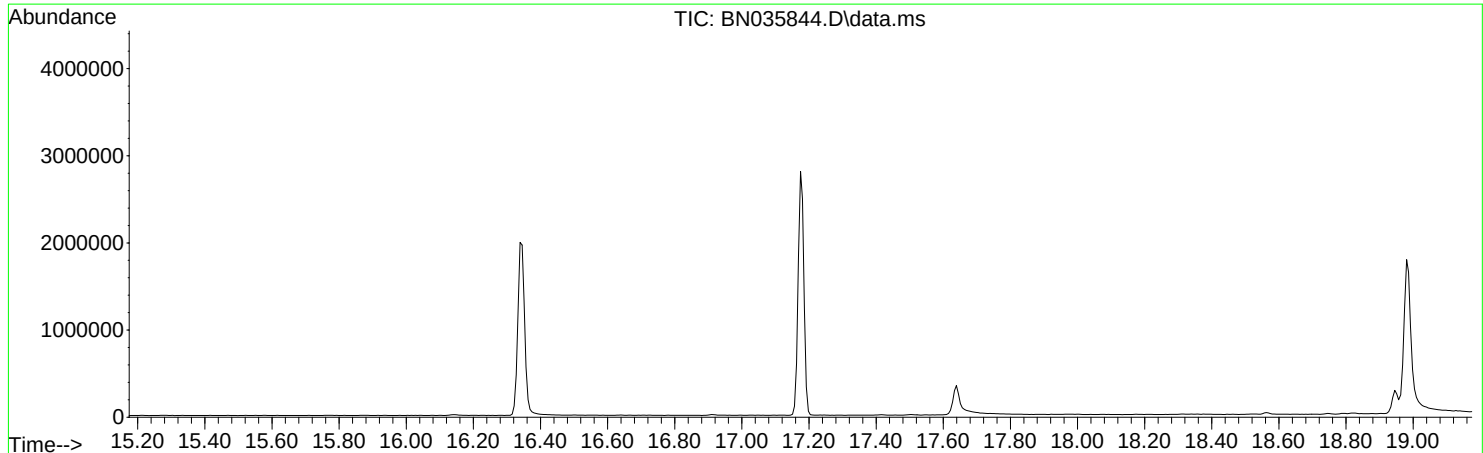
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	<u>BN035775.D</u>
Compound Name	Response	Retention Time
DDT	1726374	20.251
DDD	285443	19.804
DDE	9189	19.286
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
294632	2021006	14.58

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



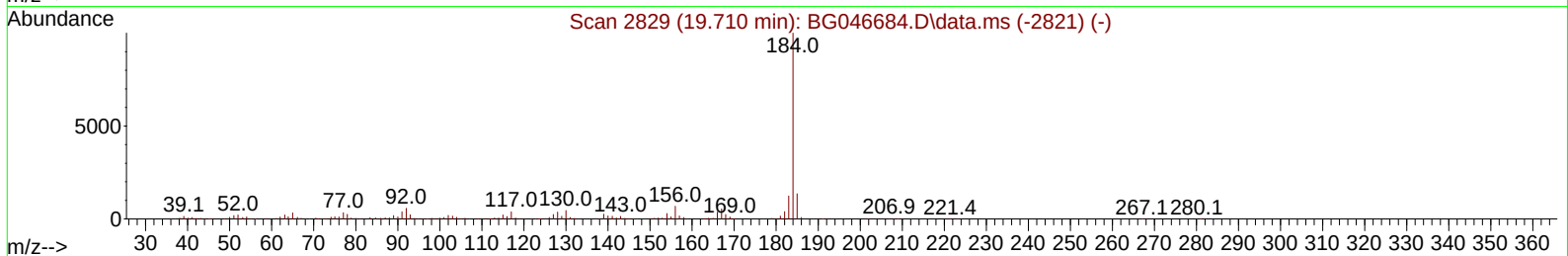
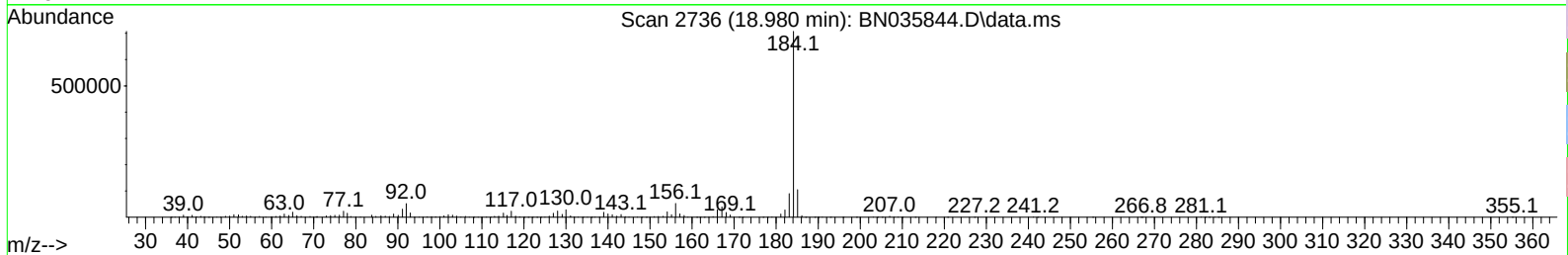
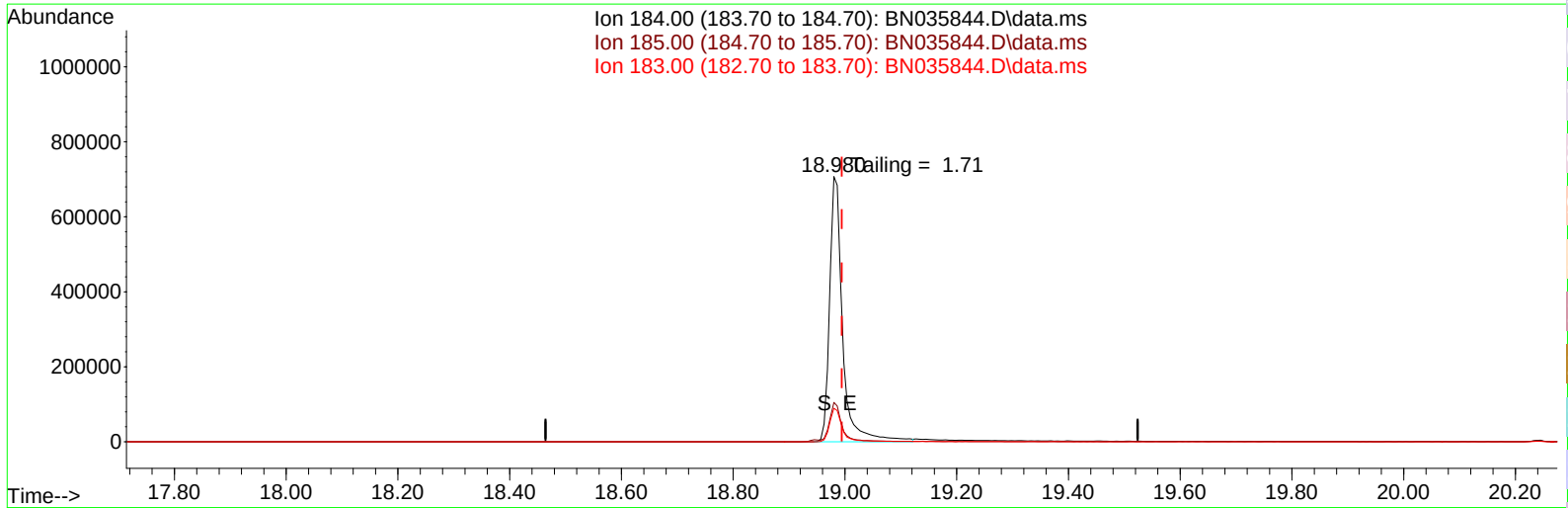
AutoFind: Scans 2428, 2429, 2430; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.0	70451	PASS
68	69	0.00	2	0.6	610	PASS
69	198	0.00	100	32.9	96557	PASS
70	69	0.00	2	0.5	480	PASS
127	198	10	80	40.0	117549	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	293824	PASS
199	198	5	9	6.7	19833	PASS
275	198	10	60	27.1	79648	PASS
365	198	1	100	3.9	11517	PASS
441	198	0.01	100	11.5	33733	PASS
442	442	50	100	100.0	201656	PASS
443	442	15	24	20.5	41285	PASS

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:	PB165724BL	SDG No.:	P5314
Lab Sample ID:	PB165724BL	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
BN035846.D	1	12/18/24 12:50	12/26/24 10:35	PB165724

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		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	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		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4510	7.257				
1146-65-2	Naphthalene-d8	10600	9.999				
15067-26-2	Acenaphthene-d10	6580	13.924				
1517-22-2	Phenanthrene-d10	14100	16.698				
1719-03-5	Chrysene-d12	10300	20.947				
1520-96-3	Perylene-d12	9890	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 : BN035846.D
Acq On : 26 Dec 2024 10:35
Operator : RC/JU
Sample : PB165724BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

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

Quant Time: Dec 27 00:40:22 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	7.257	152	4513	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	10649	0.400	ng	-0.02
13) Acenaphthene-d10	13.924	164	6575	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	14052	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	10269	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	9894	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3643	0.323	ng	-0.01
5) Phenol-d6	6.470	99	3773	0.278	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2970m	0.457	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6172	0.370	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	975	0.209	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	9551	0.384	ng	-0.01
27) Fluoranthene-d10	18.747	212	15078	0.379	ng	-0.01
31) Terphenyl-d14	19.375	244	10893	0.538	ng	-0.01

Target Compounds Qvalue

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

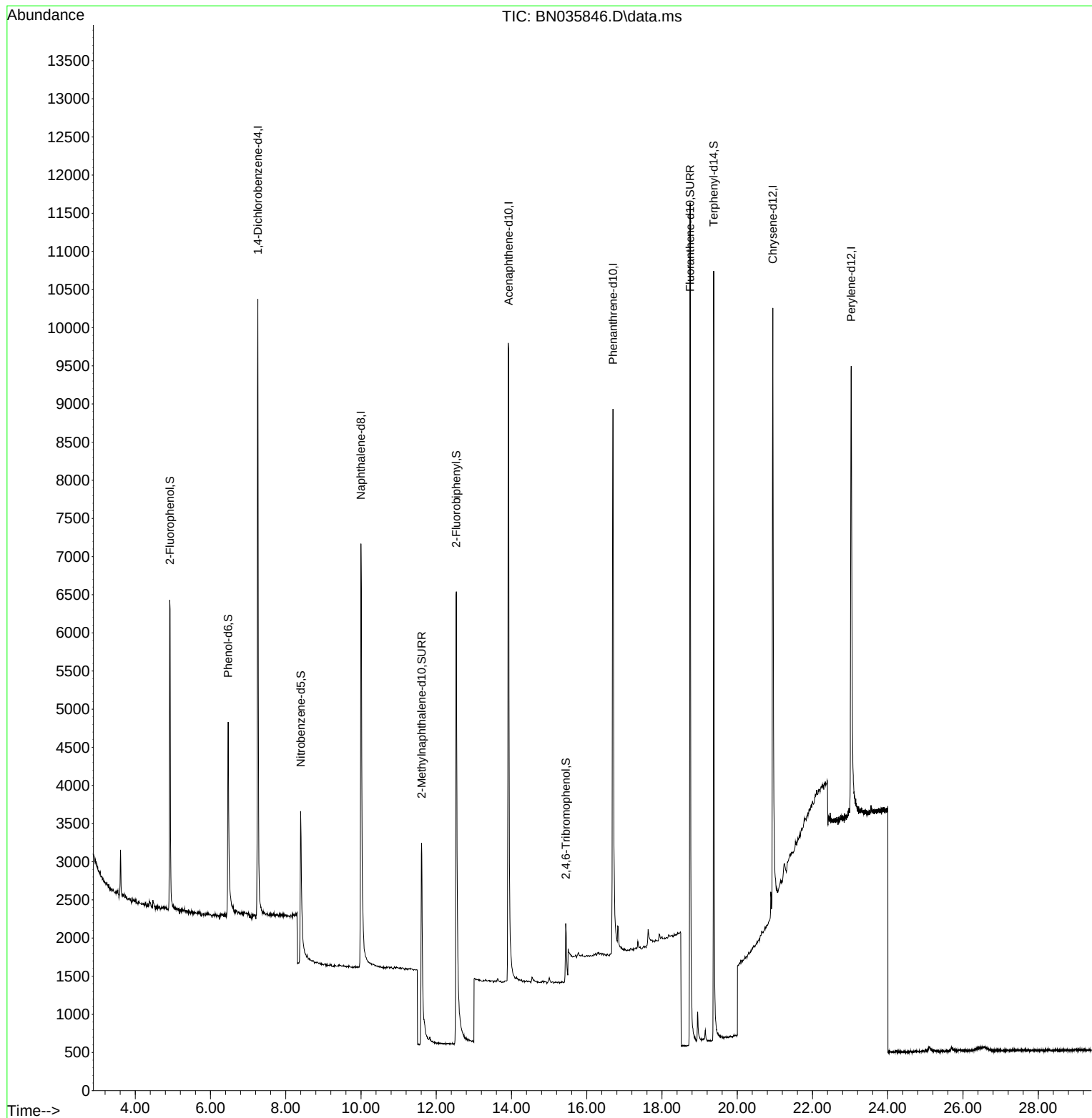
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035846.D
Acq On : 26 Dec 2024 10:35
Operator : RC/JU
Sample : PB165724BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

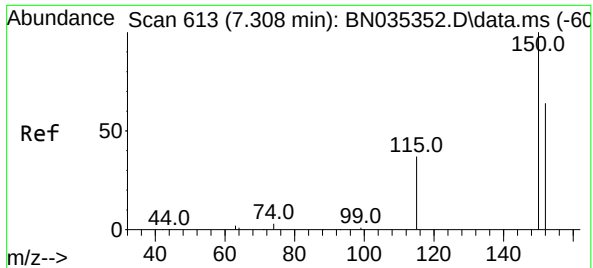
Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

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

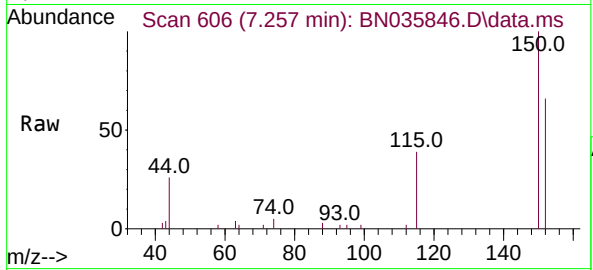
Quant Time: Dec 27 00:40:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 606
Delta R.T. -0.015 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

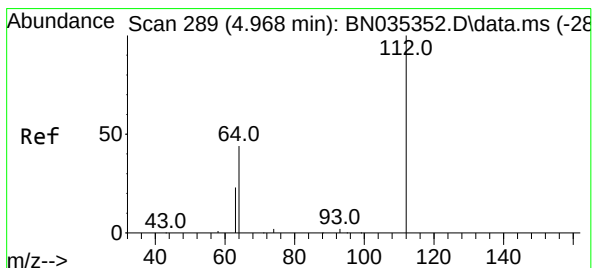
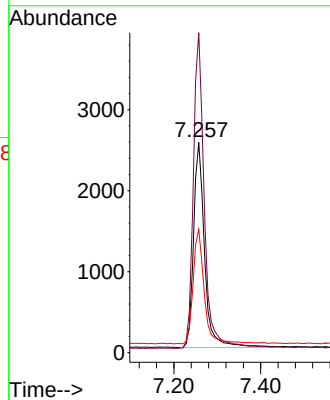
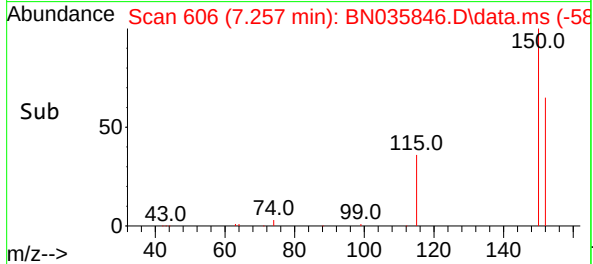
Instrument :
BNA_N
ClientSampleId :
PB165724BL



Tgt Ion:152 Resp: 451
Ion Ratio Lower Upper
152 100
150 152.2 124.0 186.0
115 58.6 49.6 74.4

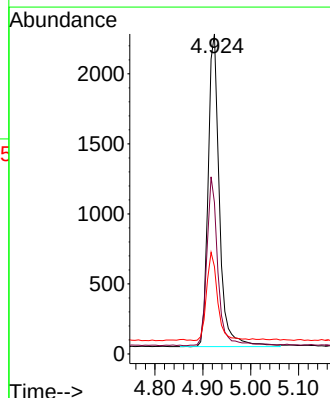
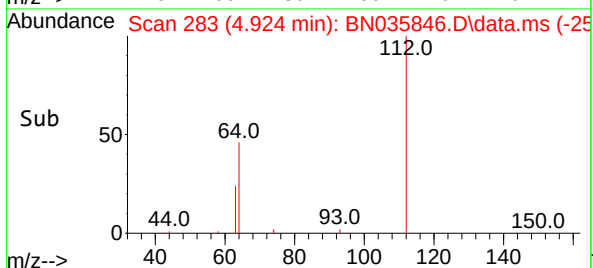
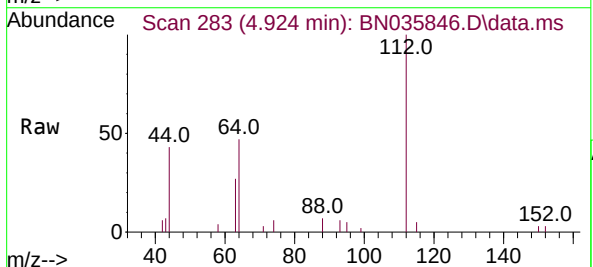
Manual Integrations
APPROVED

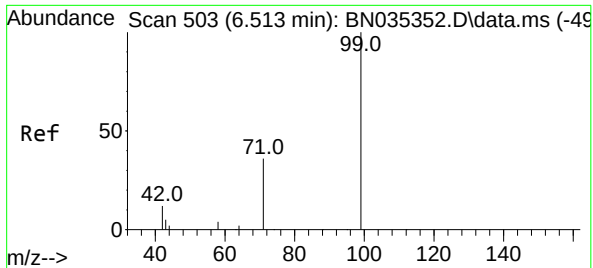
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024



#4
2-Fluorophenol
Concen: 0.323 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:112 Resp: 3643
Ion Ratio Lower Upper
112 100
64 52.8 39.8 59.8
63 27.4 21.0 31.6





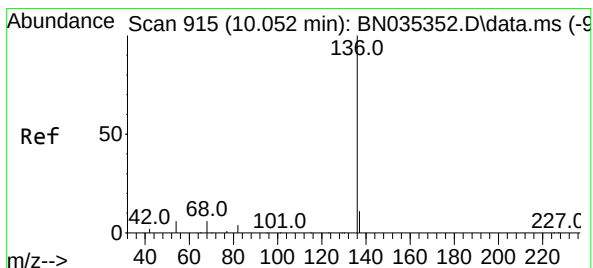
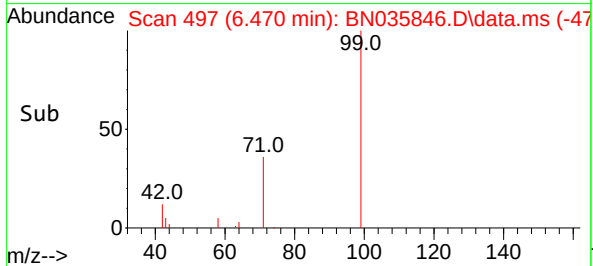
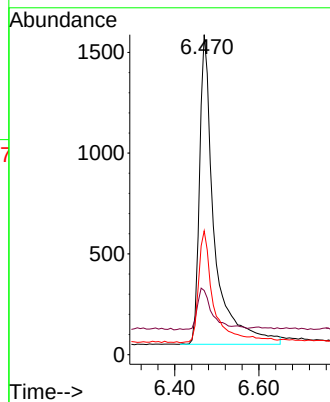
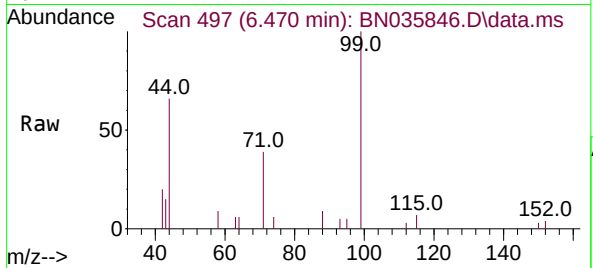
#5
Phenol-d6
Concen: 0.278 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion	Ratio	Lower	Upper
99	100		
42	12.5	11.4	17.2
71	37.4	29.3	43.9

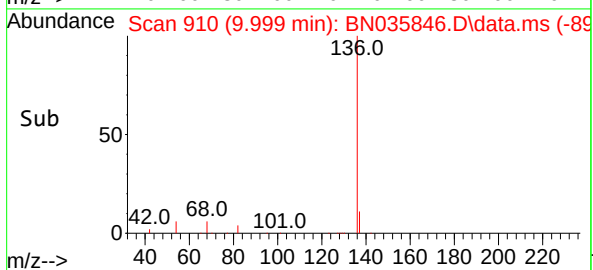
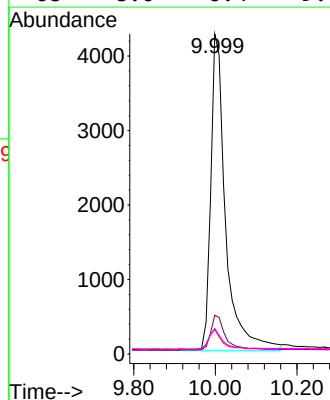
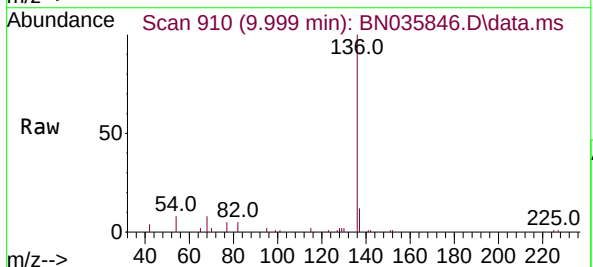
Manual Integrations
APPROVED

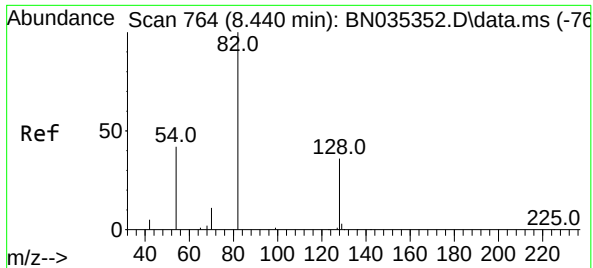
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.022 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.7	6.1	9.1
68	8.0	6.4	9.6





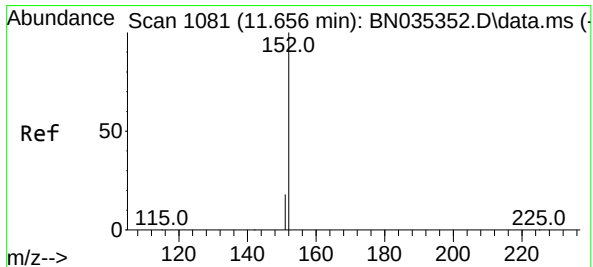
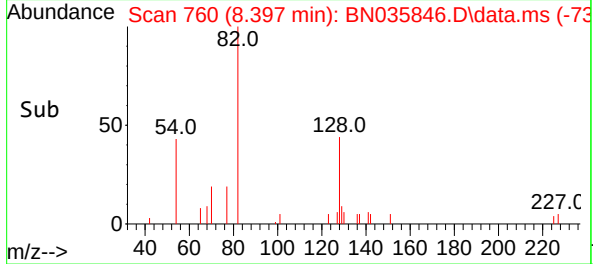
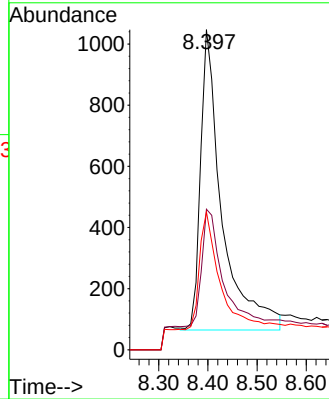
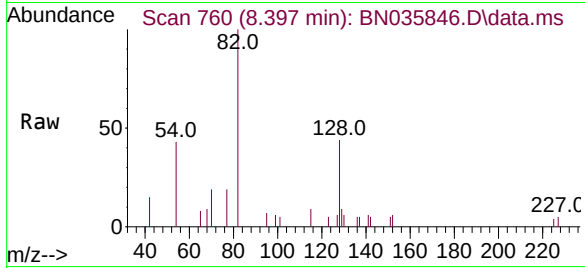
#8
Nitrobenzene-d5
Concen: 0.457 ng m
RT: 8.397 min Scan# 70
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion: 82 Resp: 2970
Ion Ratio Lower Upper
82 100
128 43.9 33.4 50.0
54 43.1 36.7 55.1

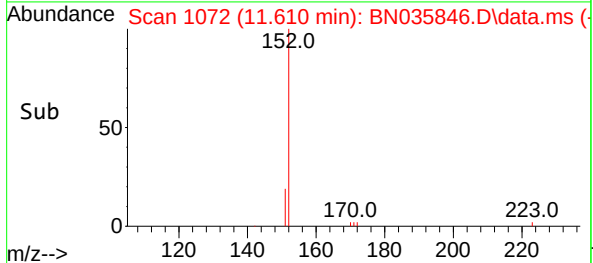
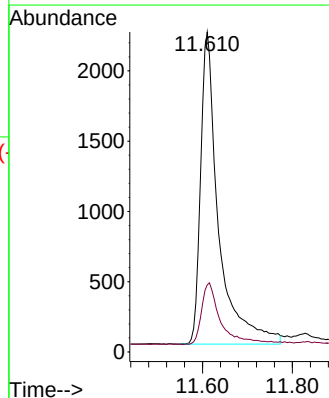
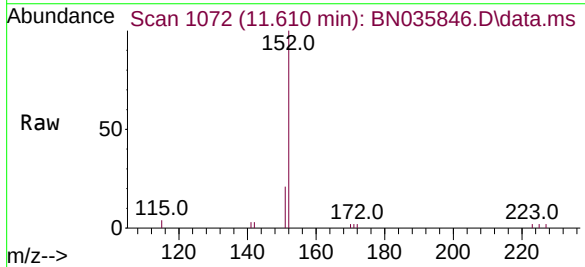
Manual Integrations
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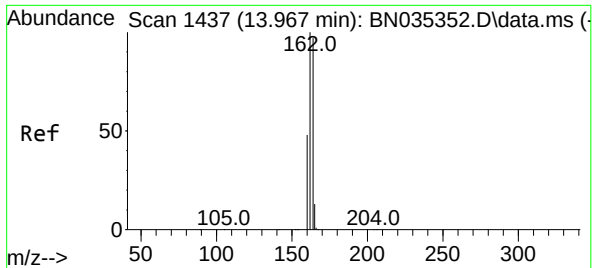
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024



#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

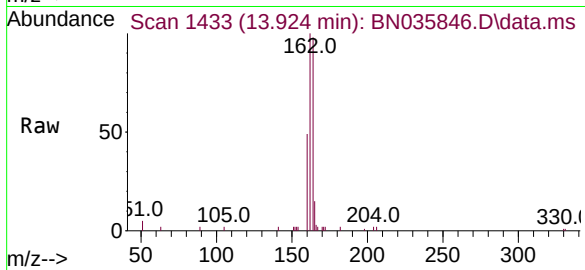
Tgt Ion:152 Resp: 6172
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

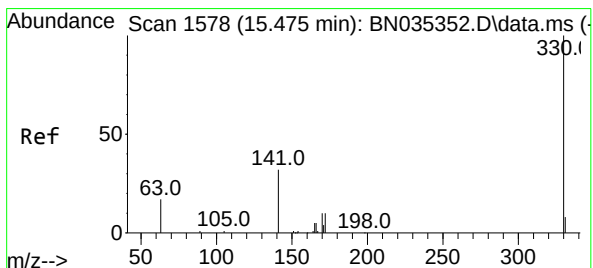
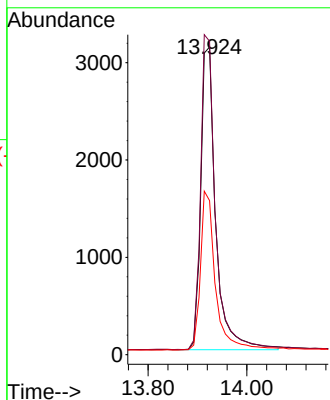
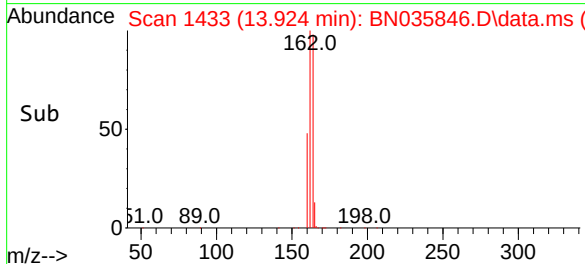
Instrument :
BNA_N
ClientSampleId :
PB165724BL



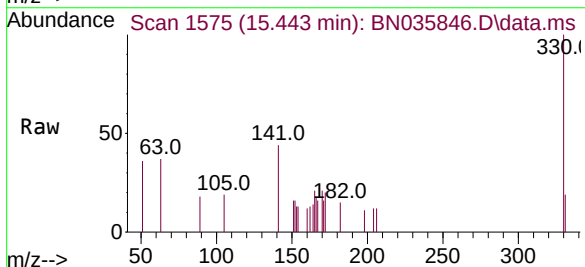
Tgt Ion:164 Resp: 657
Ion Ratio Lower Upper
164 100
162 101.8 82.2 123.2
160 50.1 40.1 60.1

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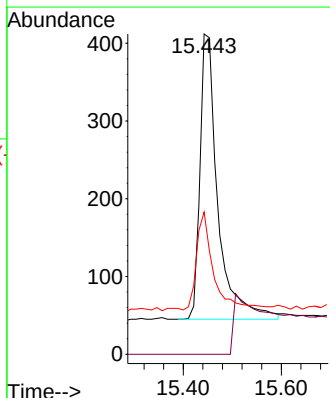
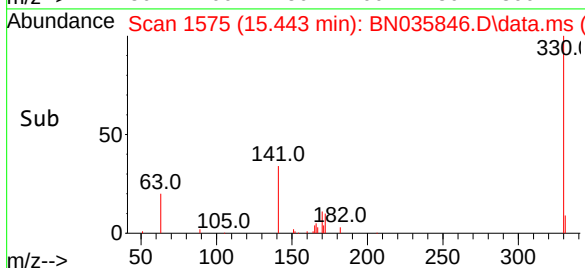
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

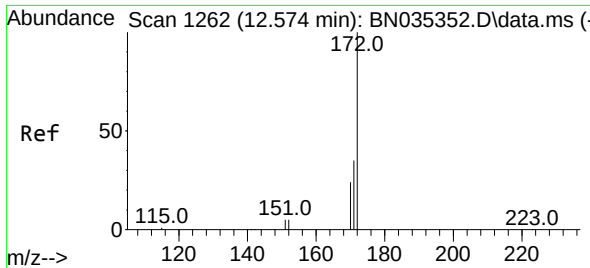


#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35



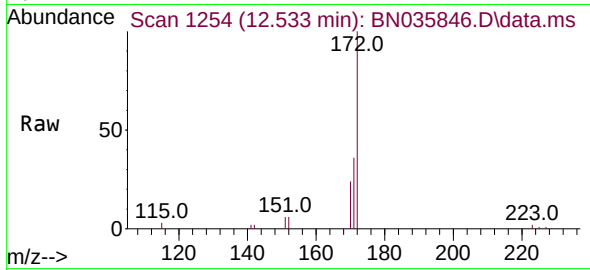
Tgt Ion:330 Resp: 975
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.3 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

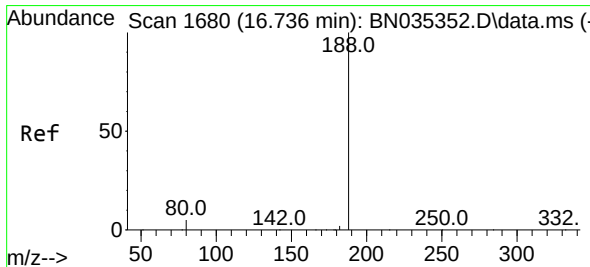
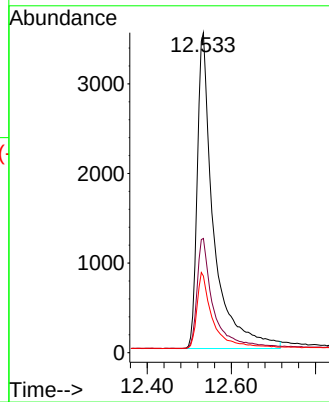
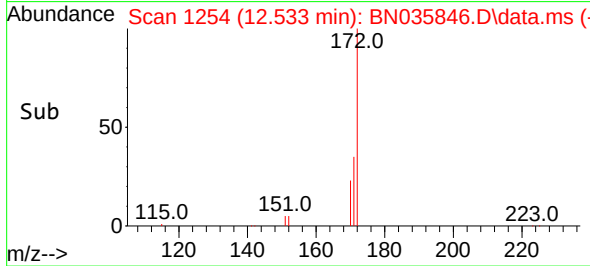
Instrument :
BNA_N
ClientSampleId :
PB165724BL



Tgt Ion:172 Resp: 955
Ion Ratio Lower Upper
172 100
171 35.7 29.0 43.4
170 24.0 19.8 29.8

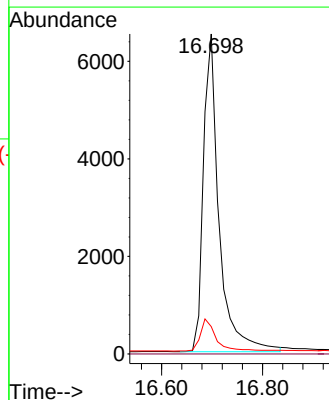
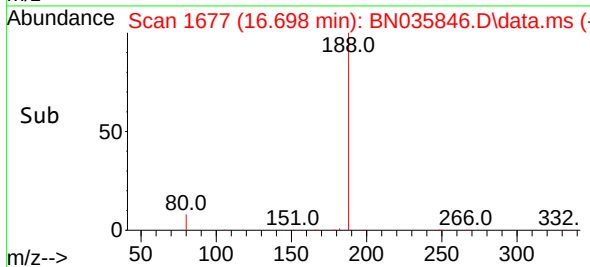
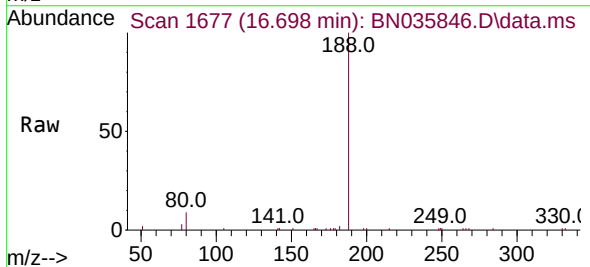
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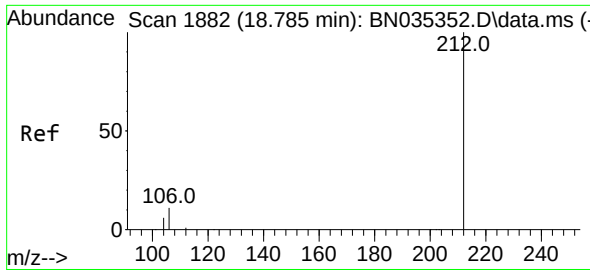
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:188 Resp: 14052
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.5 4.6 6.8#





#27

Fluoranthene-d10

Concen: 0.379 ng

RT: 18.747 min Scan# 1874

Delta R.T. -0.014 min

Lab File: BN035846.D

Acq: 26 Dec 2024 10:35

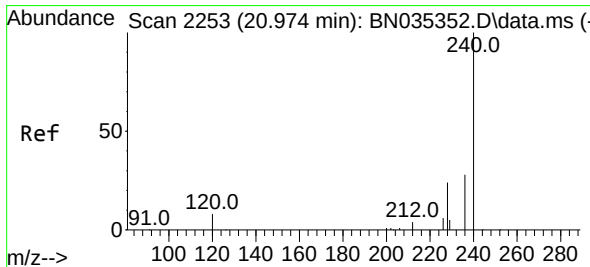
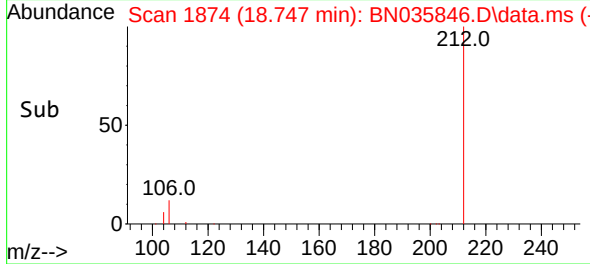
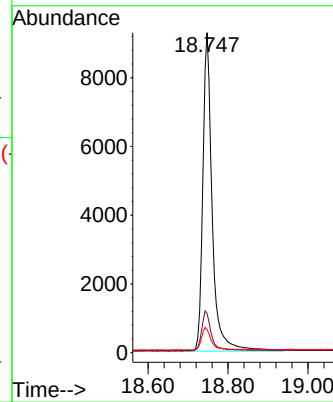
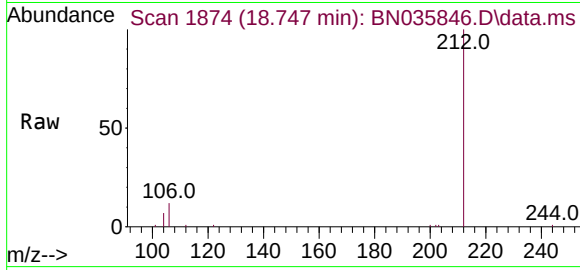
Instrument :

BNA_N

ClientSampleId :

PB165724BL

Tgt Ion:	212	Resp:	15078
Ion Ratio	Lower	Upper	
212	100		
106	12.7	9.2	13.8
104	7.2	5.3	7.9

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Supervised By :mohammad ahmed 12/30/2024

#29

Chrysene-d12

Concen: 0.400 ng

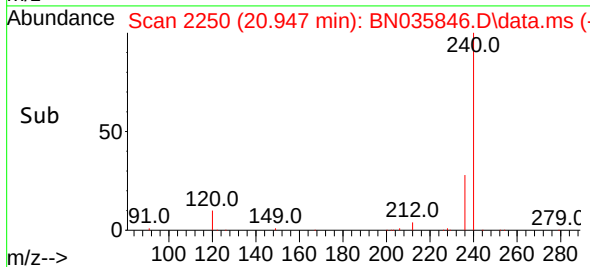
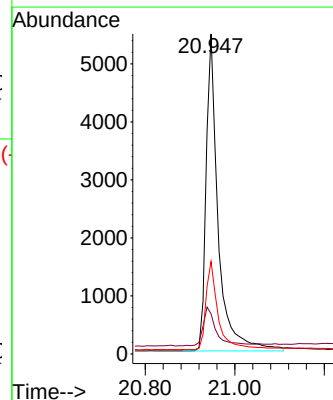
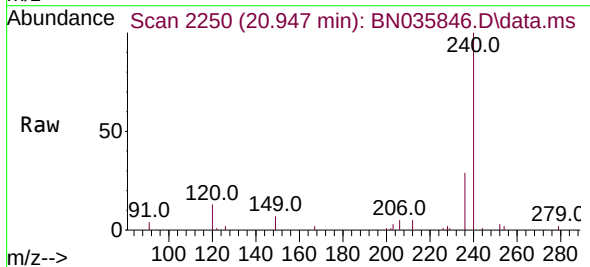
RT: 20.947 min Scan# 2250

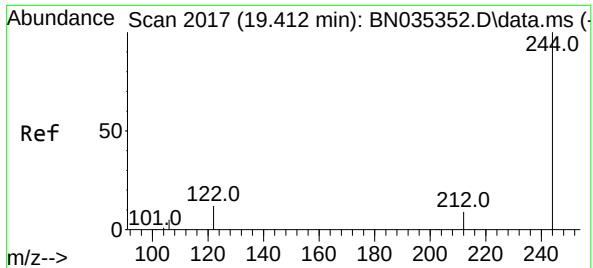
Delta R.T. -0.009 min

Lab File: BN035846.D

Acq: 26 Dec 2024 10:35

Tgt Ion:	240	Resp:	10269
Ion Ratio	Lower	Upper	
240	100		
120	12.5	7.9	11.9#
236	28.9	22.9	34.3





#31
Terphenyl-d14
Concen: 0.538 ng
RT: 19.375 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :

BNA_N

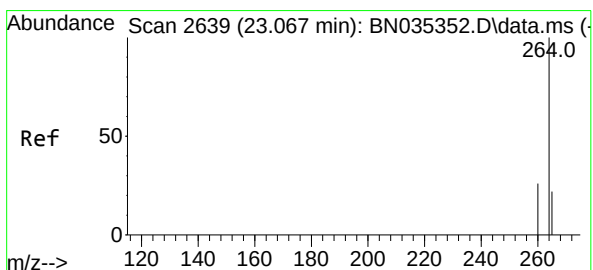
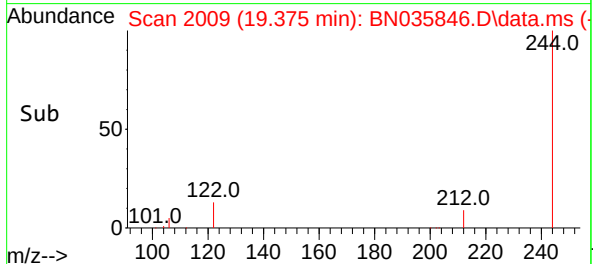
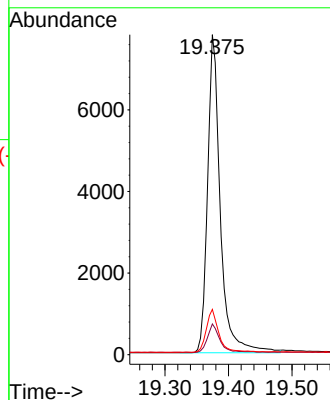
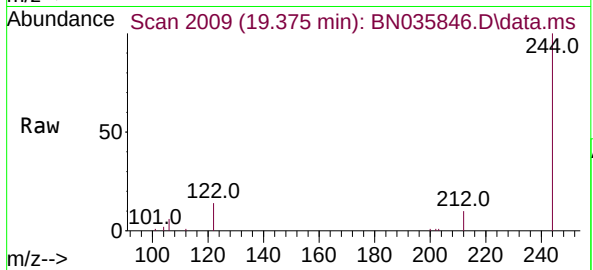
ClientSampleId :

PB165724BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	14.2	10.3	15.5

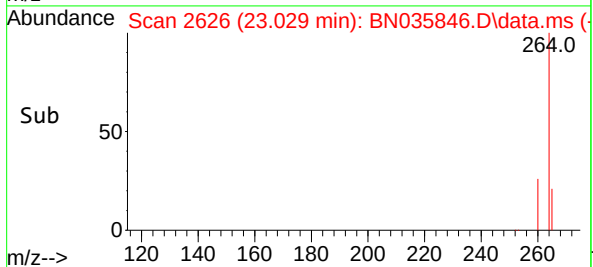
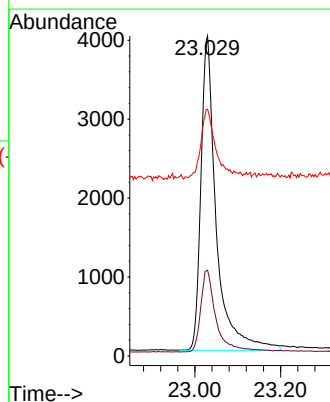
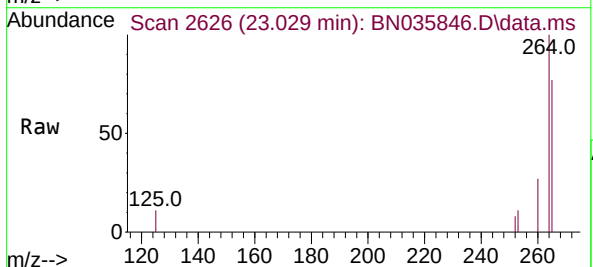
Manual Integrations
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Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.8	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:	PB165724BS	SDG No.:	P5314
Lab Sample ID:	PB165724BS	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
BN035764.D	1	12/18/24 12:50	12/21/24 04:34	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.48		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.56		30 - 150		139%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.50	*	55 - 111		125%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2650	7.271				
1146-65-2	Naphthalene-d8	6540	10.009				
15067-26-2	Acenaphthene-d10	3740	13.924				
1517-22-2	Phenanthrene-d10	6890	16.698				
1719-03-5	Chrysene-d12	6140	20.955				
1520-96-3	Perylene-d12	6580	23.041				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035764.D
 Acq On : 21 Dec 2024 04:34
 Operator : RC/JU
 Sample : PB165724BS
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165724BS

Quant Time: Dec 21 05:09:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.271	152	2647	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6538	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	3740	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	6891	0.400	ng	# 0.00
29) Chrysene-d12	20.955	240	6144	0.400	ng	0.00
35) Perylene-d12	23.041	264	6576	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	2510	0.379	ng	0.00
5) Phenol-d6	6.484	99	2665	0.334	ng	0.00
8) Nitrobenzene-d5	8.407	82	2003m	0.502	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	5689	0.556	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	453	0.171	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6506	0.460	ng	0.00
27) Fluoranthene-d10	18.761	212	8504	0.435	ng	0.00
31) Terphenyl-d14	19.393	244	6077	0.501	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.981	88	1209	0.478	ng	# 64
3) n-Nitrosodimethylamine	3.270	42	1089	0.517	ng	# 97
6) bis(2-Chloroethyl)ether	6.722	93	2779	0.415	ng	99
9) Naphthalene	10.062	128	7464	0.433	ng	99
10) Hexachlorobutadiene	10.351	225	1928	0.485	ng	# 99
12) 2-Methylnaphthalene	11.691	142	4846	0.393	ng	97
16) Acenaphthylene	13.636	152	6779	0.432	ng	99
17) Acenaphthene	13.988	154	4529	0.434	ng	98
18) Fluorene	14.993	166	5492	0.368	ng	100
20) 4,6-Dinitro-2-methylph...	15.143	198	74	0.109	ng	# 1
21) 4-Bromophenyl-phenylether	15.916	248	1621	0.402	ng	# 92
22) Hexachlorobenzene	16.003	284	2441	0.516	ng	96
23) Atrazine	16.214	200	1272	0.443	ng	94
24) Pentachlorophenol	16.375	266	1192	0.579	ng	# 84
25) Phenanthrene	16.748	178	7957	0.420	ng	99
26) Anthracene	16.835	178	7046	0.412	ng	100
28) Fluoranthene	18.794	202	9671	0.379	ng	99
30) Pyrene	19.161	202	10032	0.442	ng	99
32) Benzo(a)anthracene	20.937	228	8148	0.379	ng	99
33) Chrysene	20.991	228	10584	0.478	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	3563m	0.420	ng	
36) Indeno(1,2,3-cd)pyrene	25.067	276	11390	0.443	ng	96
37) Benzo(b)fluoranthene	22.430	252	13899	0.578	ng	# 94
38) Benzo(k)fluoranthene	22.471	252	10950	0.462	ng	94
39) Benzo(a)pyrene	22.956	252	8888	0.449	ng	# 88
40) Dibenzo(a,h)anthracene	25.090	278	8351	0.412	ng	95
41) Benzo(g,h,i)perylene	25.678	276	9596	0.453	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035764.D
 Acq On : 21 Dec 2024 04:34
 Operator : RC/JU
 Sample : PB165724BS
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

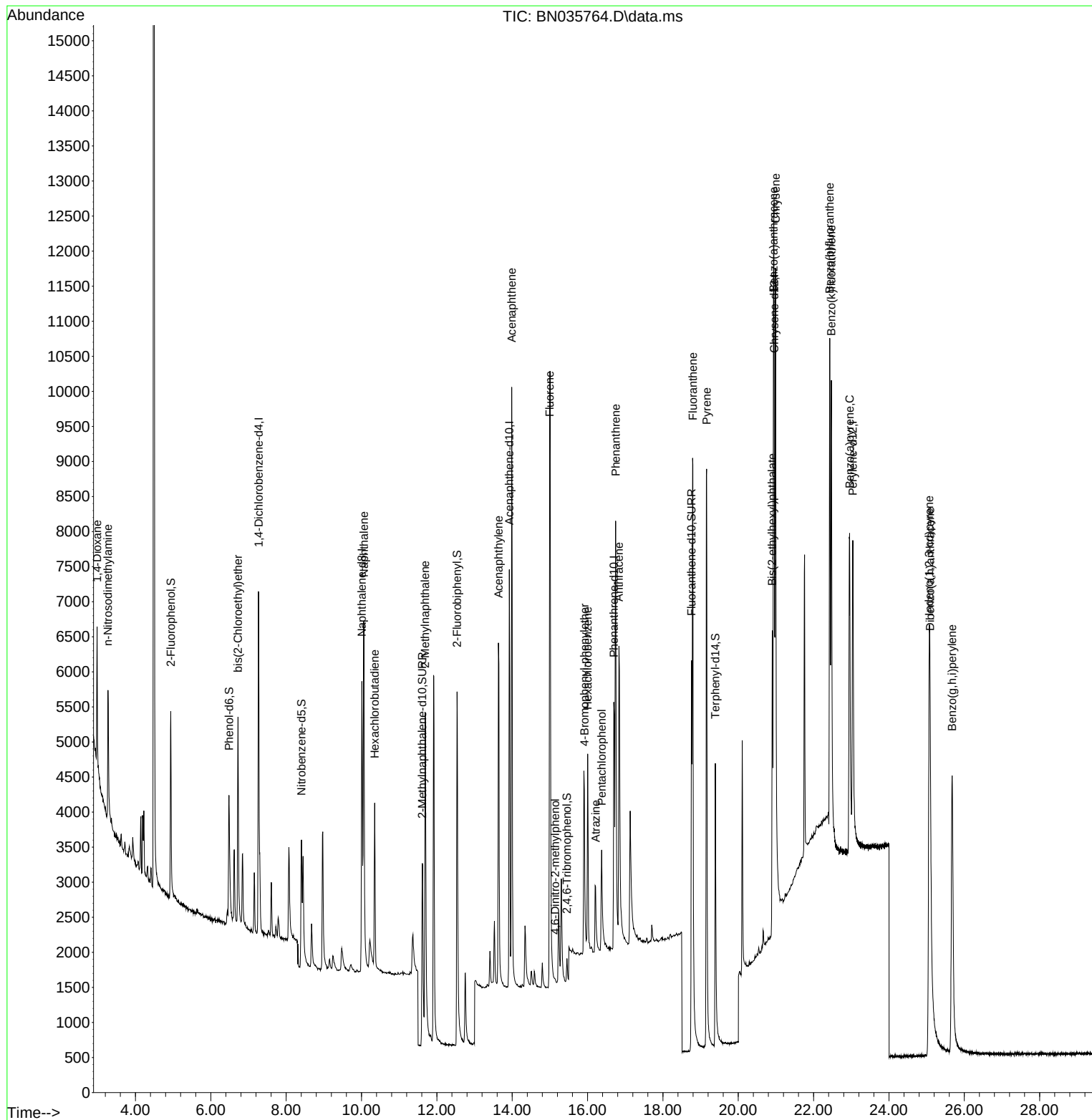
PB165724BS

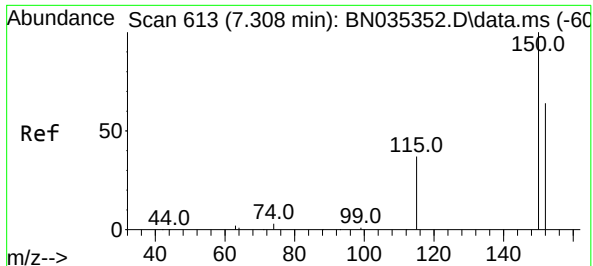
Manual Integrations

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

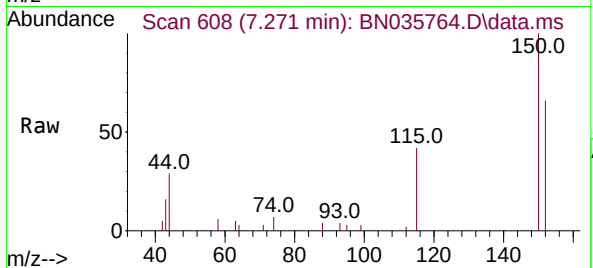
Quant Time: Dec 21 05:09:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 608
Delta R.T. -0.001 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

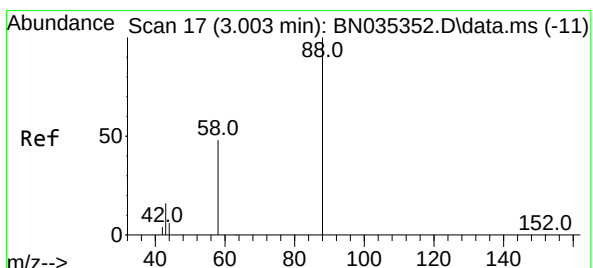
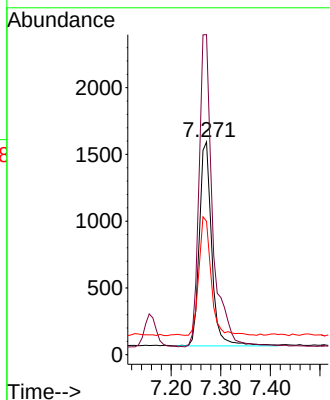
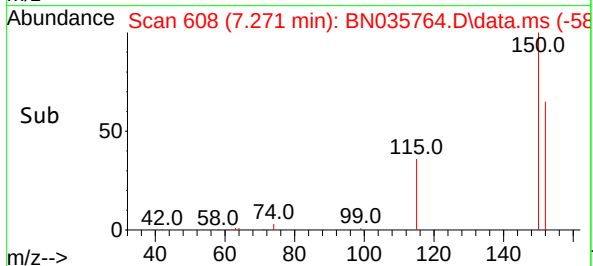
Instrument :
BNA_N
ClientSampleId :
PB165724BS



Tgt Ion: 152 Resp: 264
Ion Ratio Lower Upper
152 100
150 150.4 124.0 186.0
115 62.7 49.6 74.4

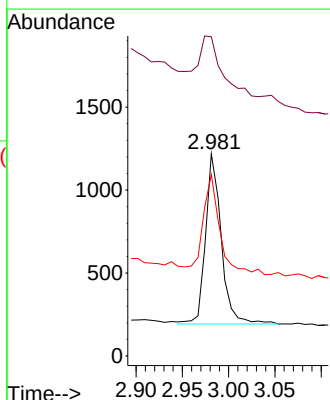
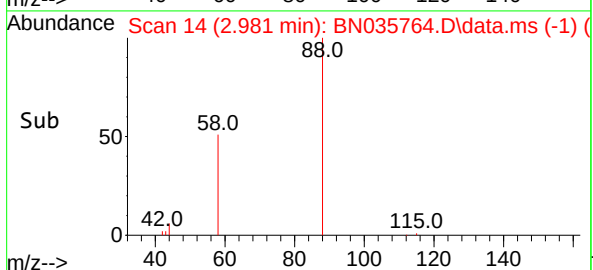
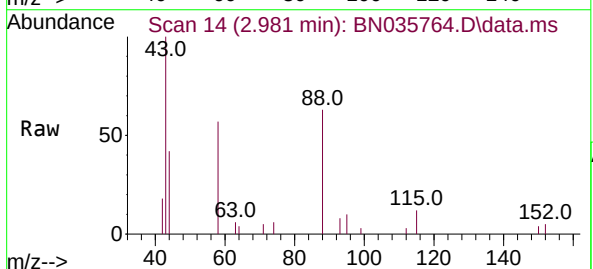
Manual Integrations
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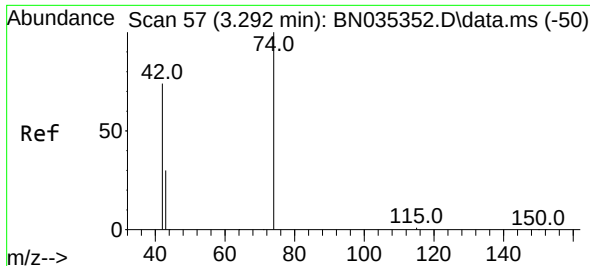
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

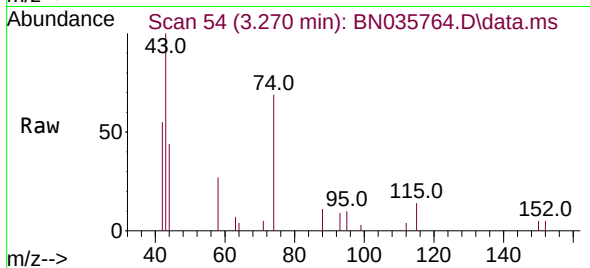
Tgt Ion: 88 Resp: 1209
Ion Ratio Lower Upper
88 100
43 69.2 17.2 25.8#
58 63.2 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.517 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

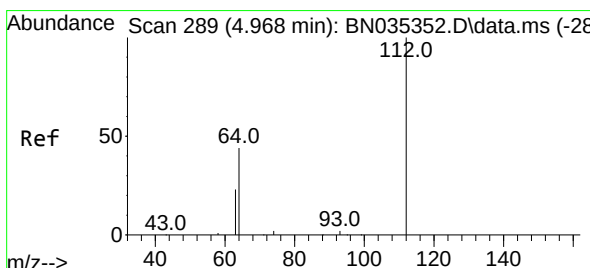
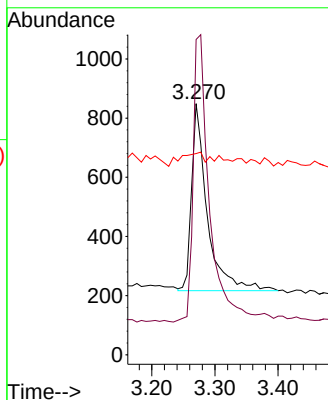
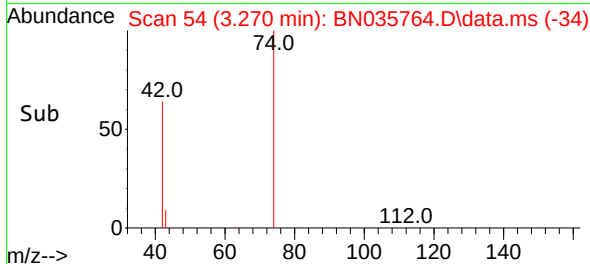
Instrument :
BNA_N
ClientSampleId :
PB165724BS



Tgt Ion: 42 Resp: 1089
Ion Ratio Lower Upper
42 100
74 159.0 124.9 187.3
44 12.7 2.2 3.4

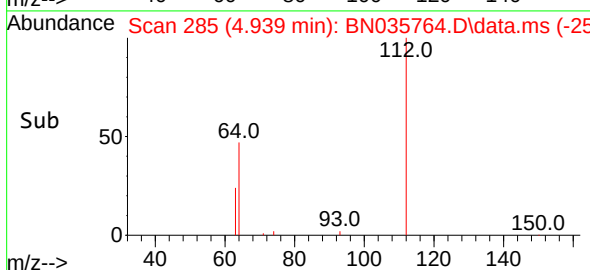
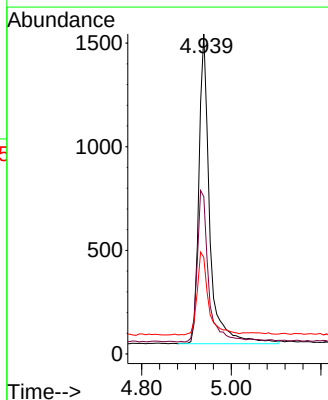
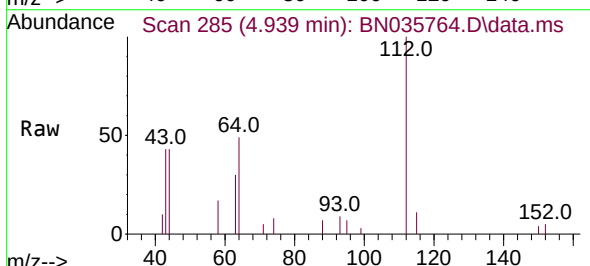
Manual Integrations
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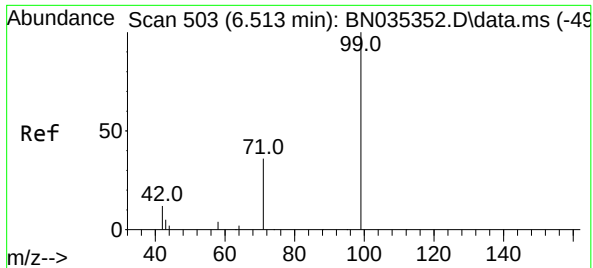
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#4
2-Fluorophenol
Concen: 0.379 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:112 Resp: 2510
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 27.8 21.0 31.6





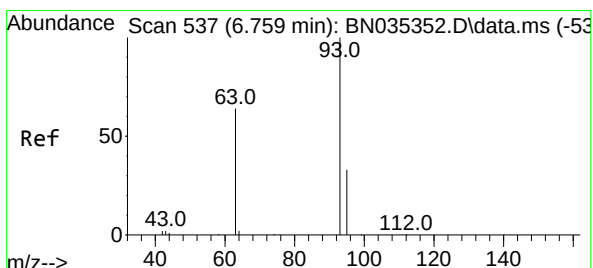
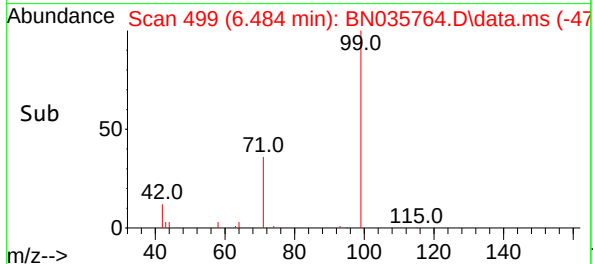
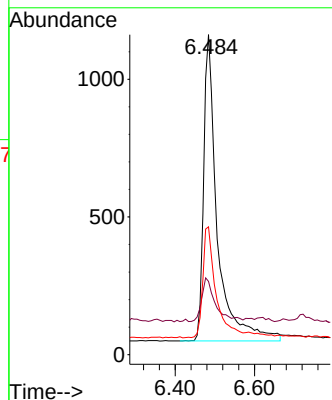
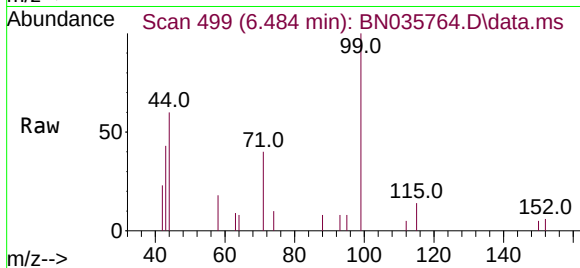
#5
Phenol-d6
Concen: 0.334 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.4	17.2
71	36.9	29.3	43.9

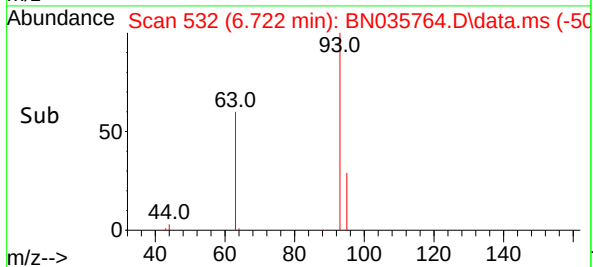
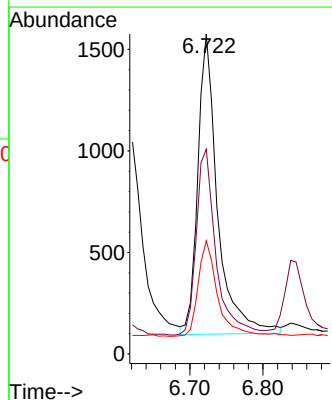
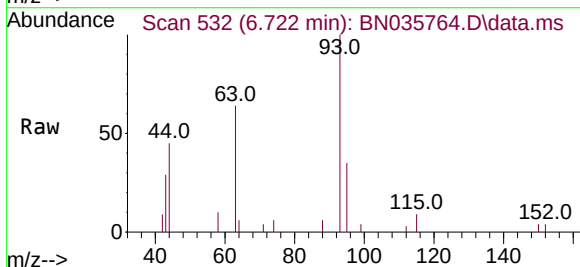
Manual Integrations
APPROVED

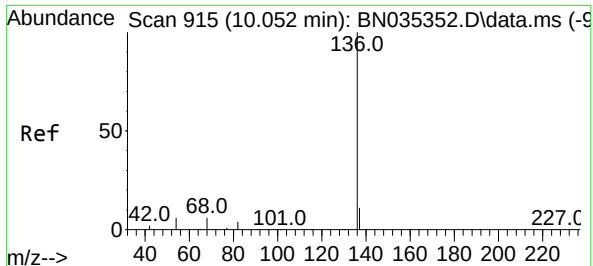
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.722 min Scan# 532
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion	Ratio	Lower	Upper
93	100		
63	61.9	50.4	75.6
95	32.0	25.7	38.5





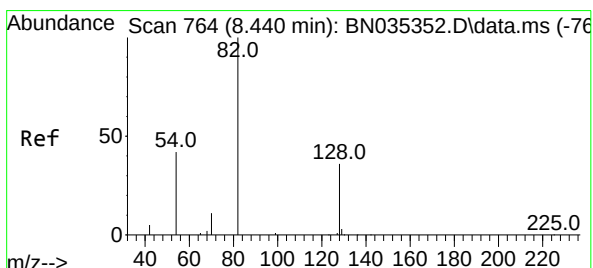
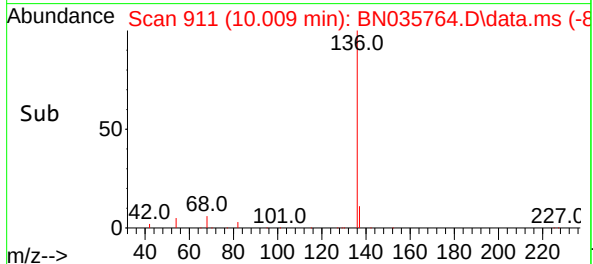
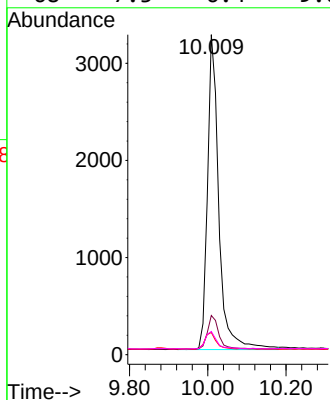
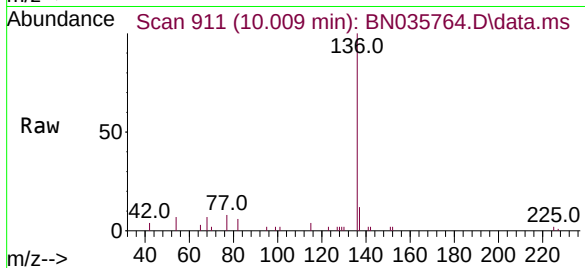
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:136 Resp: 6538
Ion Ratio Lower Upper
136 100
137 12.2 10.2 15.2
54 6.9 6.1 9.1
68 7.3 6.4 9.6

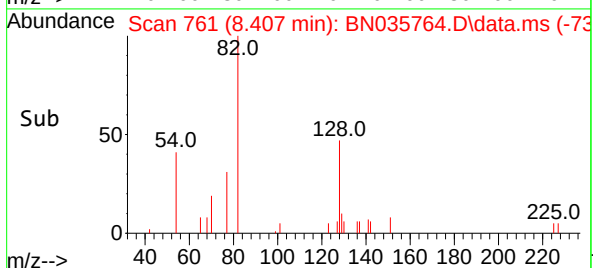
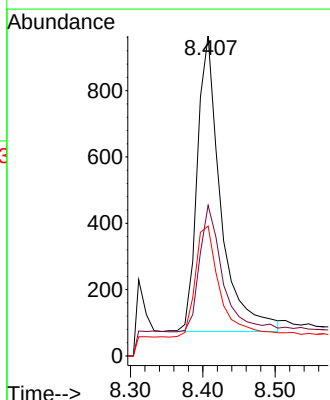
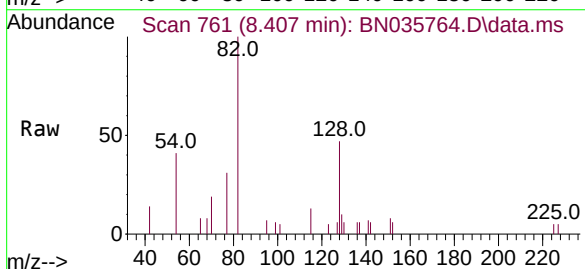
Manual Integrations
APPROVED

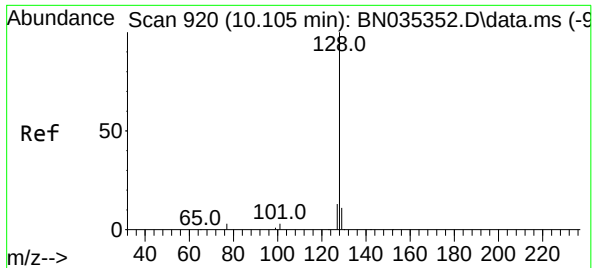
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#8
Nitrobenzene-d5
Concen: 0.502 ng m
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 82 Resp: 2003
Ion Ratio Lower Upper
82 100
128 47.0 33.4 50.0
54 40.6 36.7 55.1





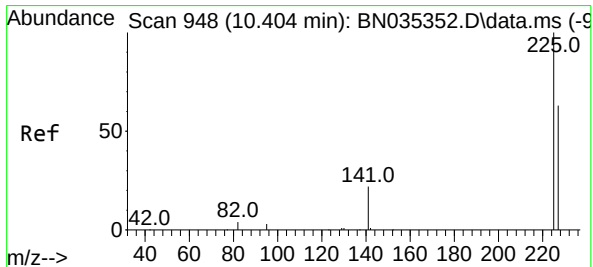
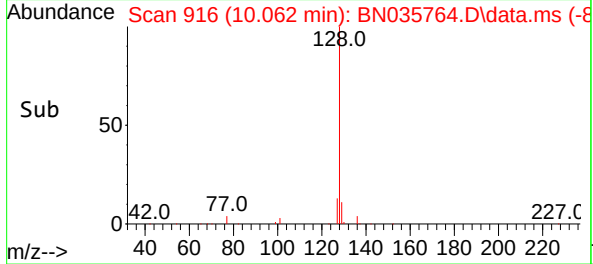
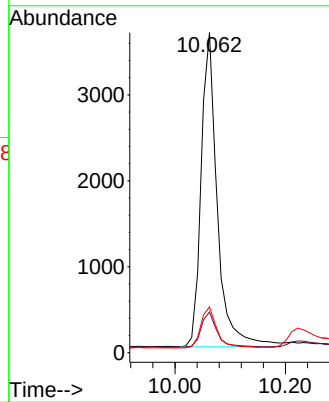
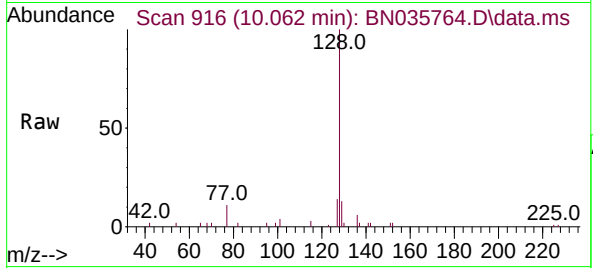
#9
Naphthalene
Concen: 0.433 ng
RT: 10.062 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:128 Resp: 7464
Ion Ratio Lower Upper
128 100
129 12.7 9.8 14.6
127 14.3 11.4 17.2

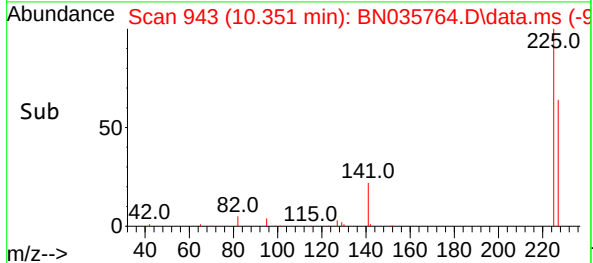
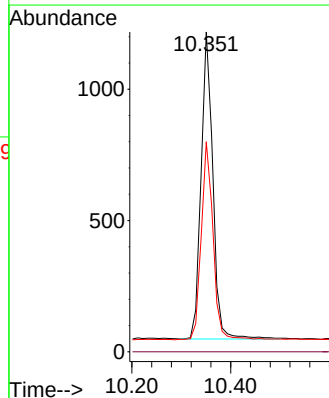
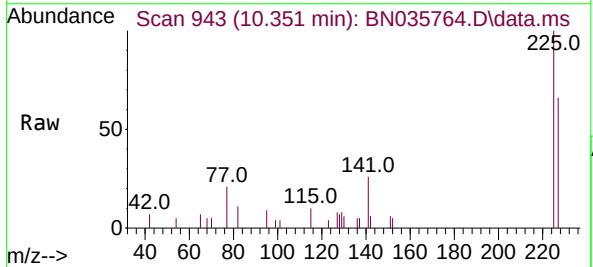
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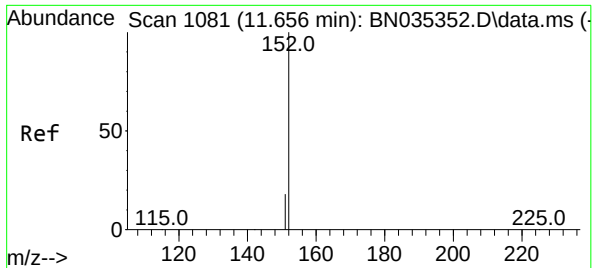
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#10
Hexachlorobutadiene
Concen: 0.485 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

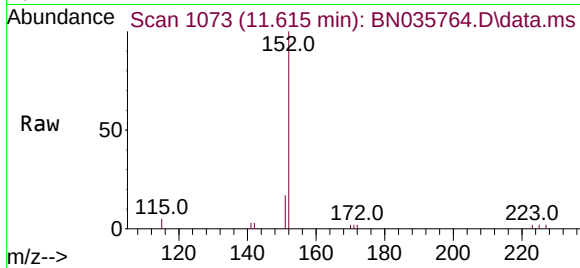
Tgt Ion:225 Resp: 1928
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.0 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.556 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

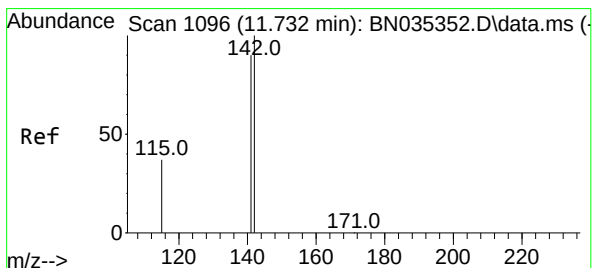
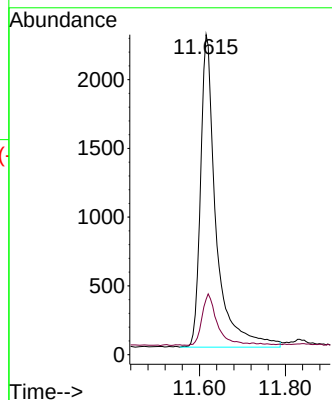
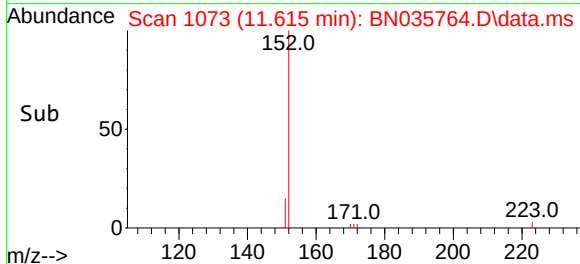
Instrument :
BNA_N
ClientSampleId :
PB165724BS



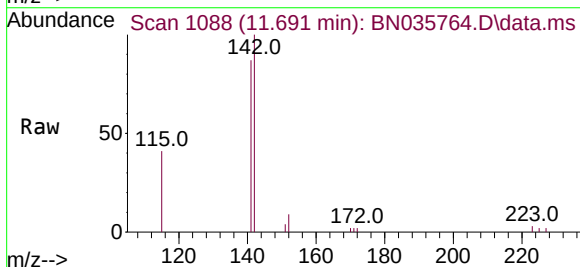
Tgt Ion:152 Resp: 5689
Ion Ratio Lower Upper
152 100
151 15.9 16.6 25.0

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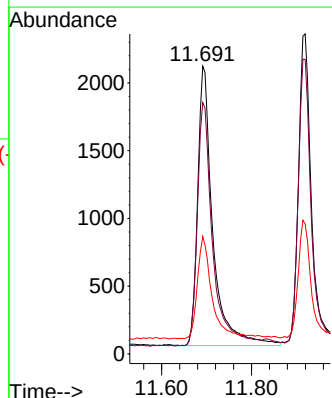
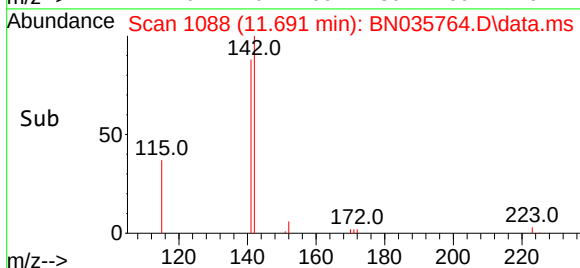
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

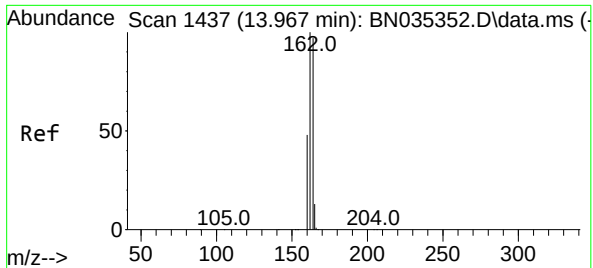


#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 11.691 min Scan# 1088
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34



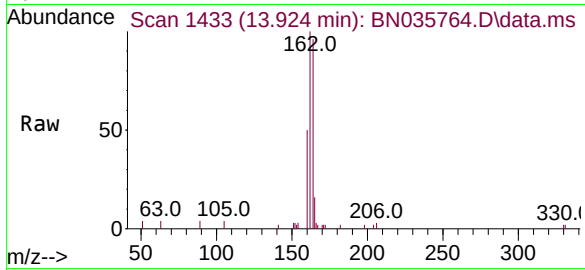
Tgt Ion:142 Resp: 4846
Ion Ratio Lower Upper
142 100
141 87.4 72.2 108.4
115 40.9 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

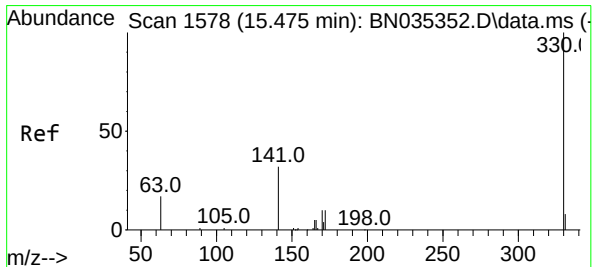
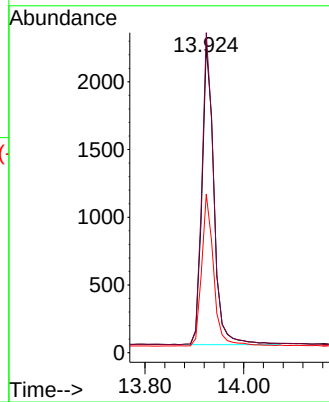
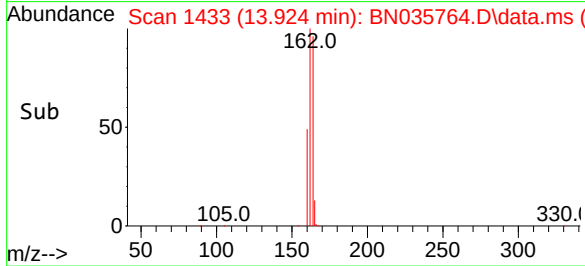
Instrument :
BNA_N
ClientSampleId :
PB165724BS



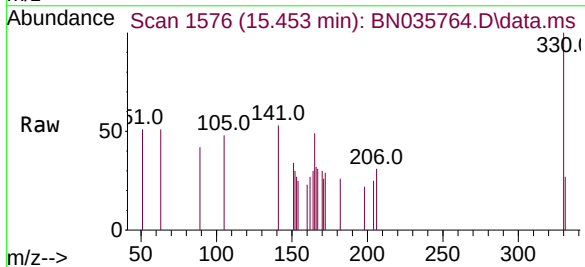
Tgt Ion:164 Resp: 3740
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 51.8 40.1 60.1

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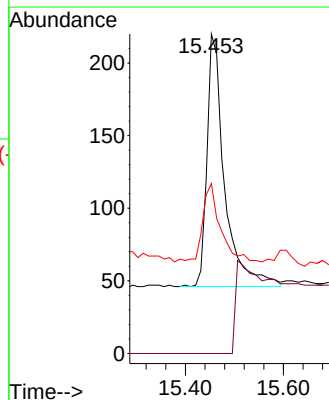
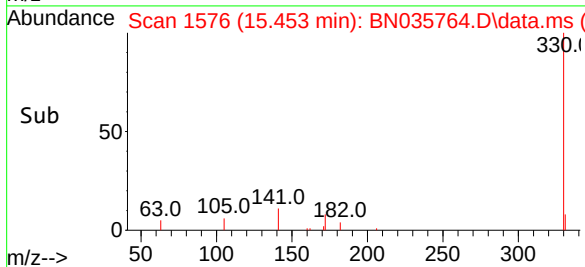
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

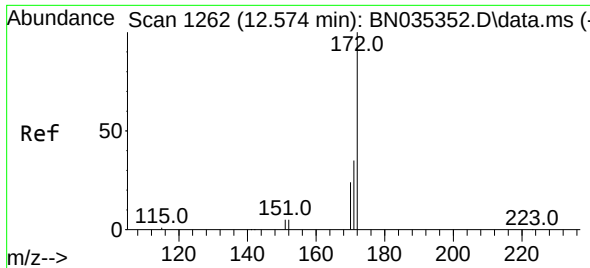


#14
2,4,6-Tribromophenol
Concen: 0.171 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34



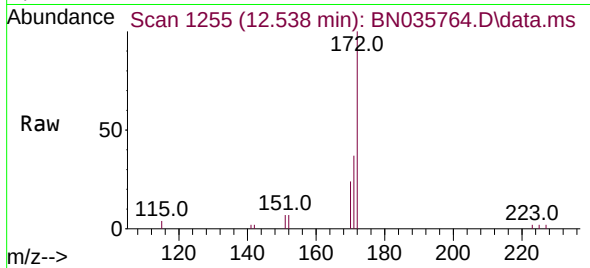
Tgt Ion:330 Resp: 453
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.2 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.460 ng
RT: 12.538 min Scan# 11
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

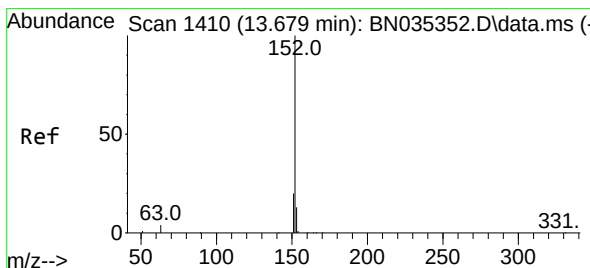
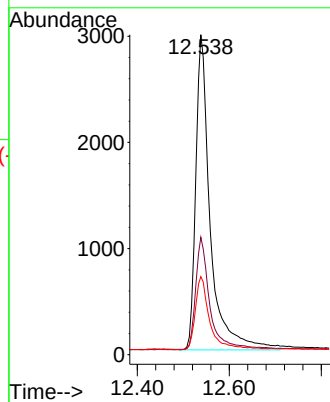
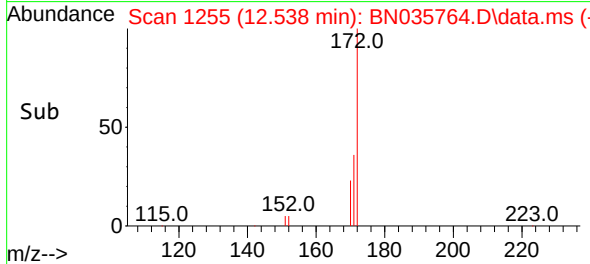
Instrument :
BNA_N
ClientSampleId :
PB165724BS



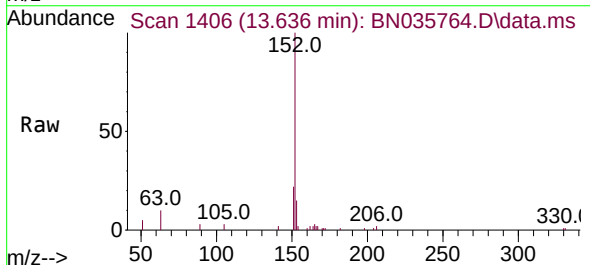
Tgt Ion:172 Resp: 6500
Ion Ratio Lower Upper
172 100
171 36.7 29.0 43.4
170 24.4 19.8 29.8

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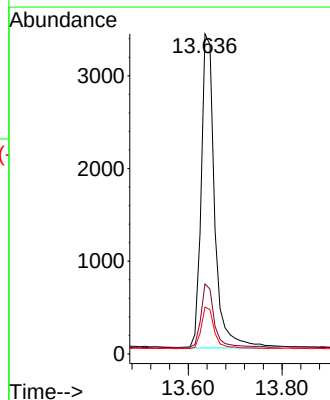
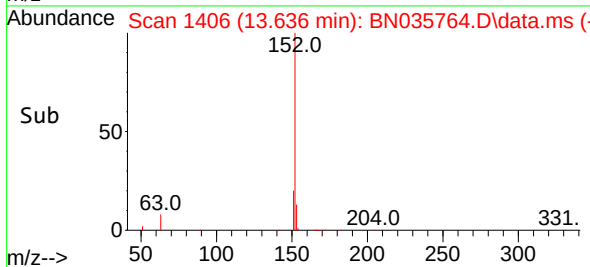
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

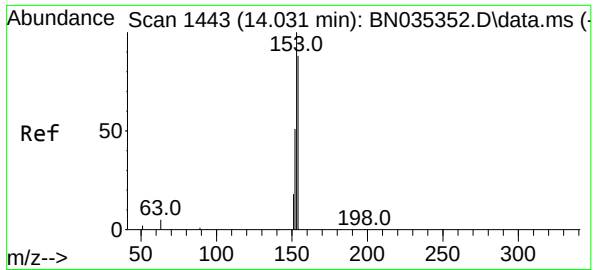


#16
Acenaphthylene
Concen: 0.432 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34



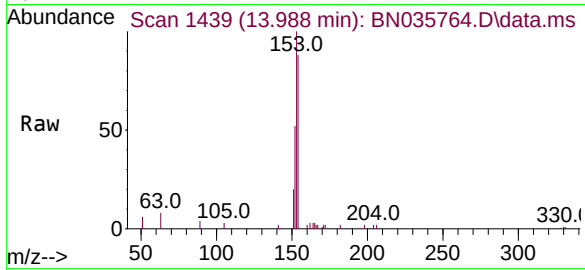
Tgt Ion:152 Resp: 6779
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.2
153 13.2 10.4 15.6





#17
Acenaphthene
Concen: 0.434 ng
RT: 13.988 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

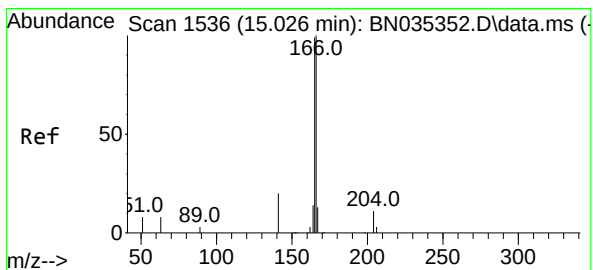
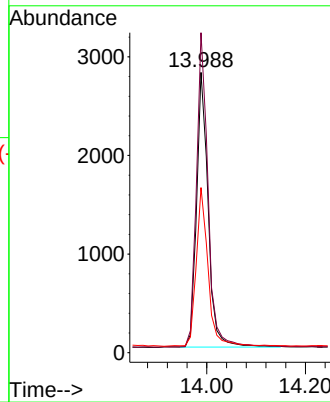
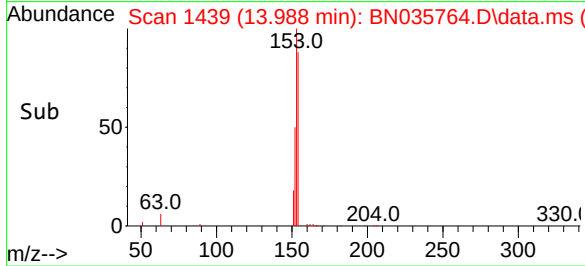
Instrument :
BNA_N
ClientSampleId :
PB165724BS



Tgt Ion:154 Resp: 4529
Ion Ratio Lower Upper
154 100
153 115.1 92.6 139.0
152 58.8 49.0 73.6

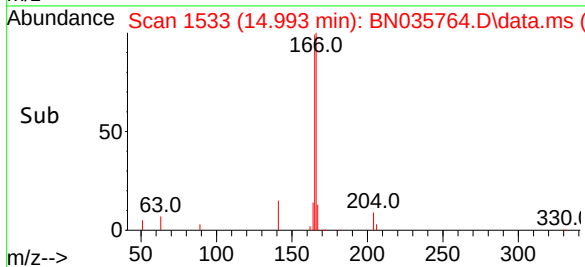
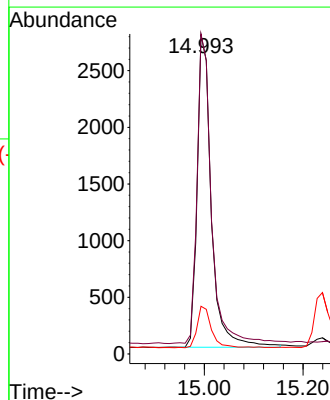
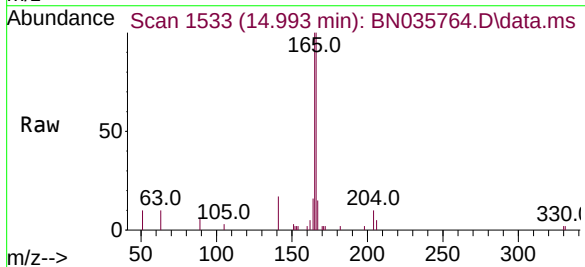
Manual Integrations
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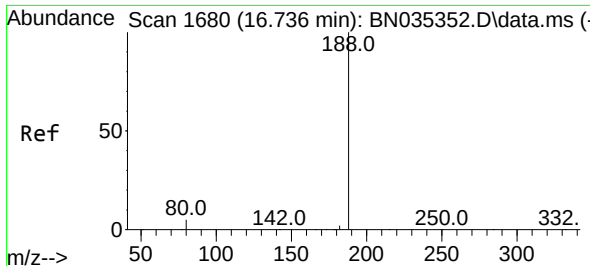
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#18
Fluorene
Concen: 0.368 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

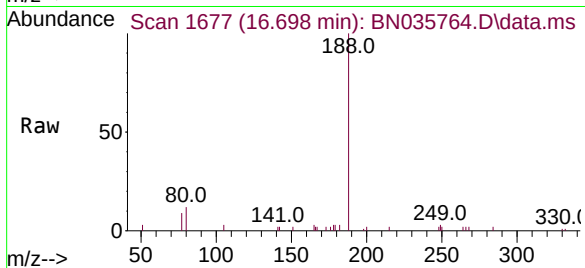
Tgt Ion:166 Resp: 5492
Ion Ratio Lower Upper
166 100
165 99.6 79.7 119.5
167 13.0 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

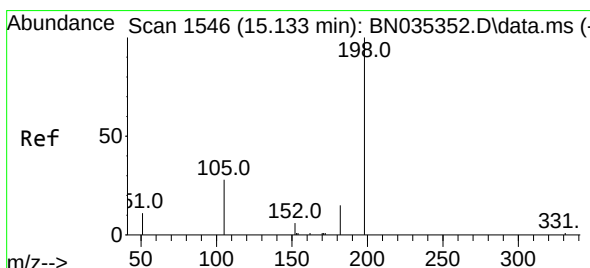
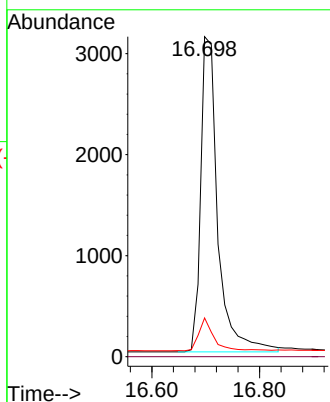
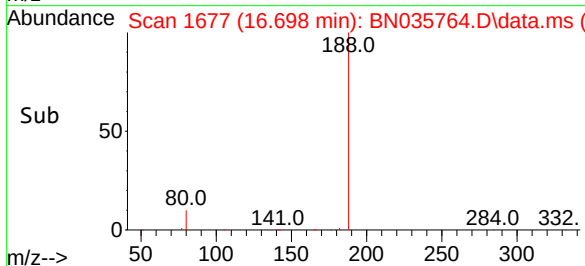
Instrument :
BNA_N
ClientSampleId :
PB165724BS



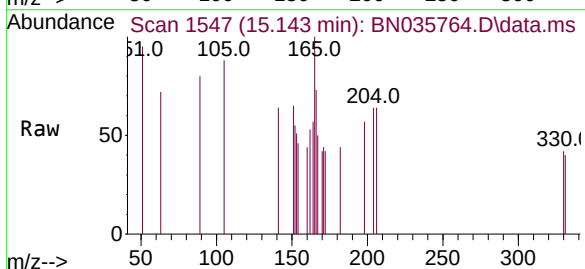
Tgt Ion:188 Resp: 689
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.1 4.6 6.8

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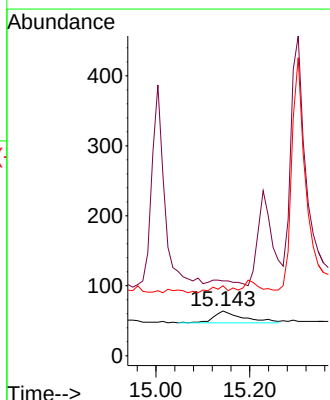
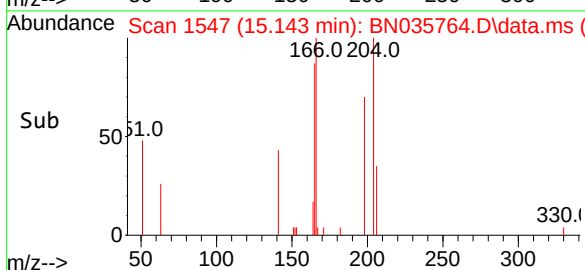
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

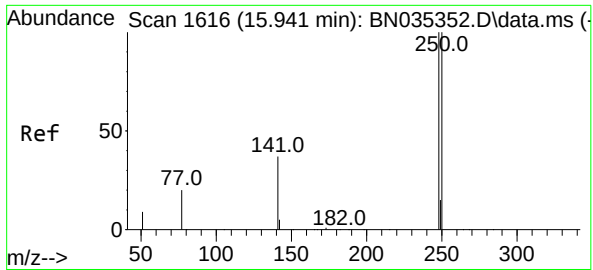


#20
4,6-Dinitro-2-methylphenol
Concen: 0.109 ng
RT: 15.143 min Scan# 1547
Delta R.T. 0.021 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34



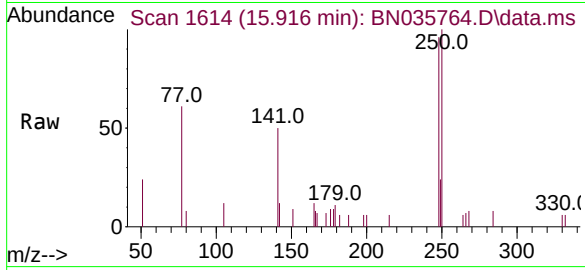
Tgt Ion:198 Resp: 74
Ion Ratio Lower Upper
198 100
51 167.2 46.5 69.7#
105 156.3 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.402 ng
RT: 15.916 min Scan# 1621
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

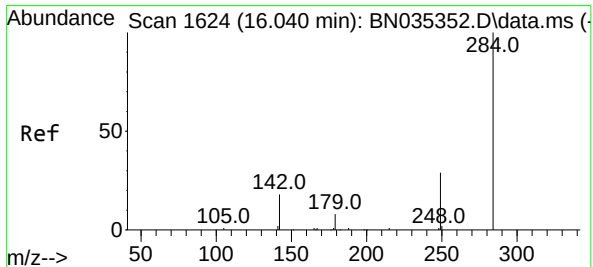
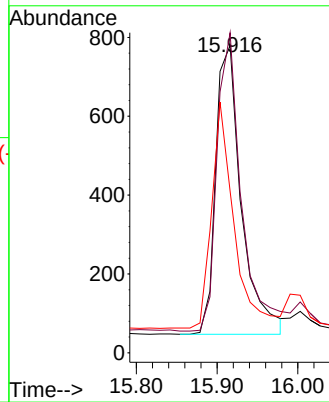
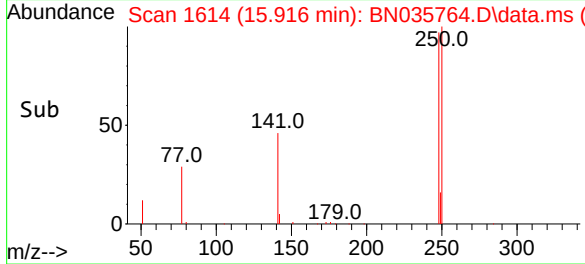
Instrument :
BNA_N
ClientSampleId :
PB165724BS



Tgt Ion:248 Resp: 1621
Ion Ratio Lower Upper
248 100
250 104.1 80.6 120.8
141 52.6 31.5 47.3

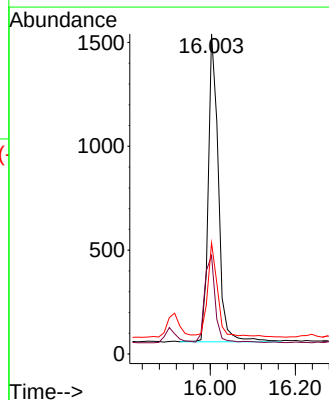
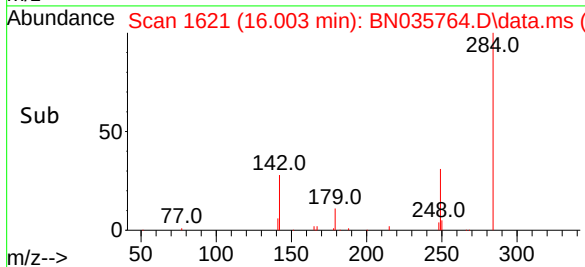
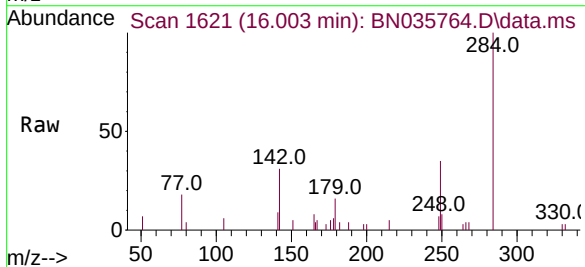
Manual Integrations
APPROVED

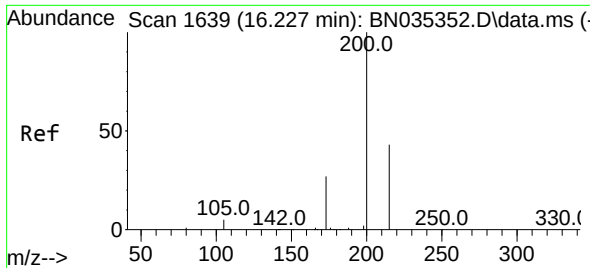
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#22
Hexachlorobenzene
Concen: 0.516 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:284 Resp: 2441
Ion Ratio Lower Upper
284 100
142 29.6 26.7 40.1
249 30.3 24.6 36.8





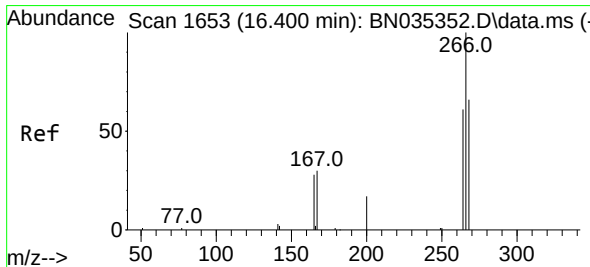
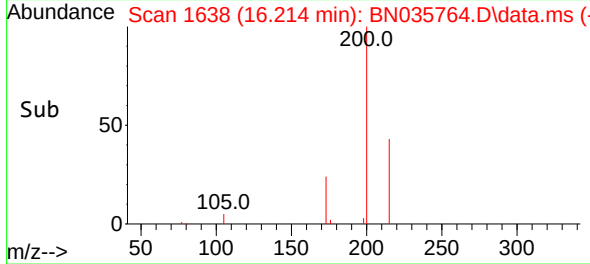
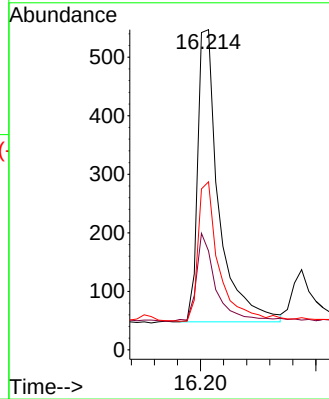
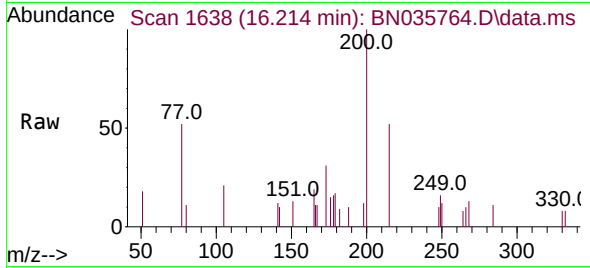
#23
Atrazine
Concen: 0.443 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.012 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:200 Resp: 127
Ion Ratio Lower Upper
200 100
173 30.9 24.1 36.1
215 52.5 36.9 55.3

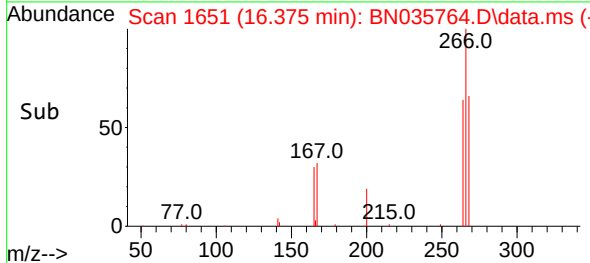
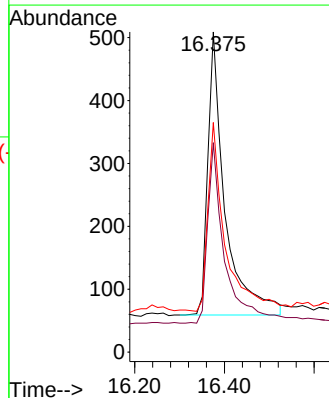
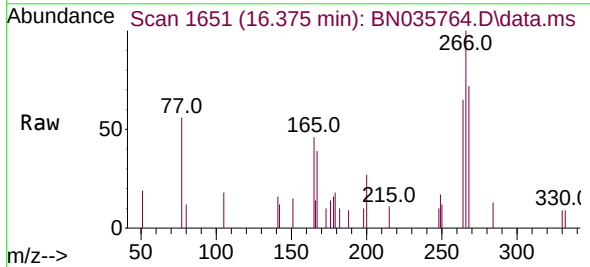
Manual Integrations
APPROVED

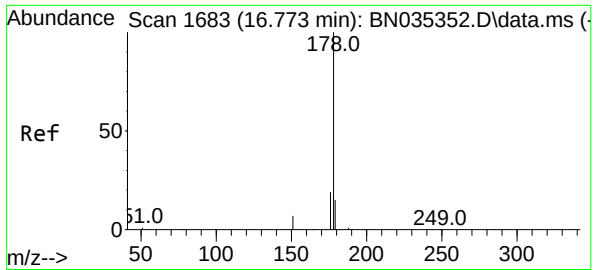
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#24
Pentachlorophenol
Concen: 0.579 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

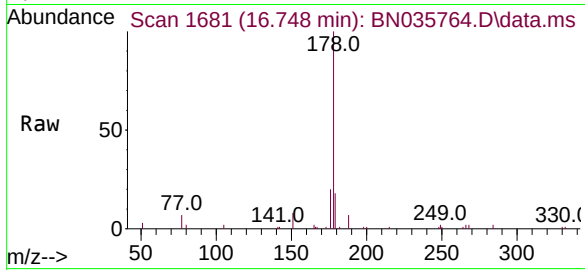
Tgt Ion:266 Resp: 1192
Ion Ratio Lower Upper
266 100
264 63.2 42.3 63.5
268 66.2 43.3 64.9#





#25
Phenanthrene
Concen: 0.420 ng
RT: 16.748 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

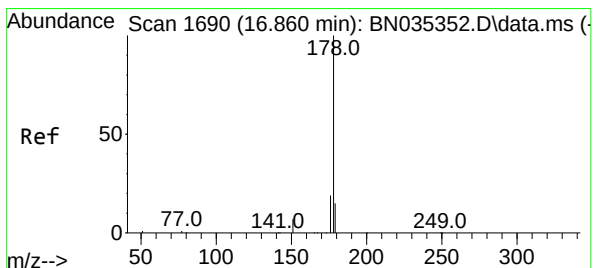
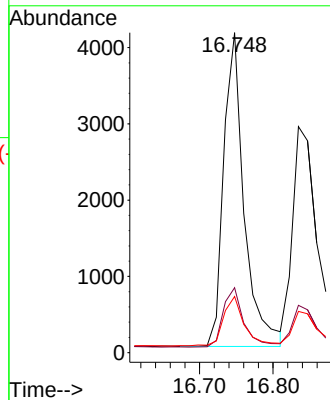
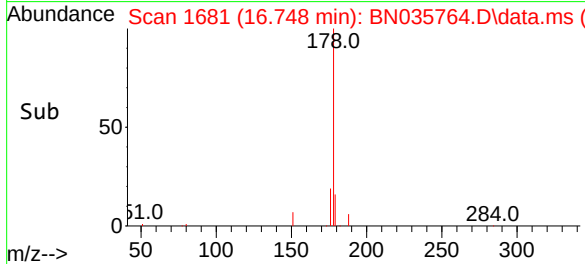
Instrument :
BNA_N
ClientSampleId :
PB165724BS



Tgt Ion:178 Resp: 795
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 16.3 12.3 18.5

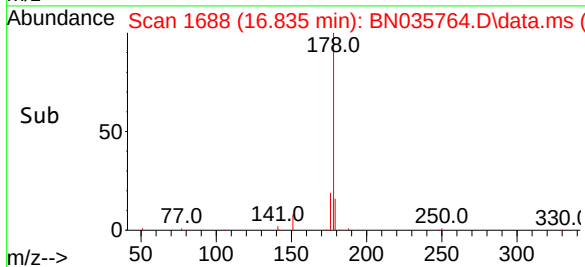
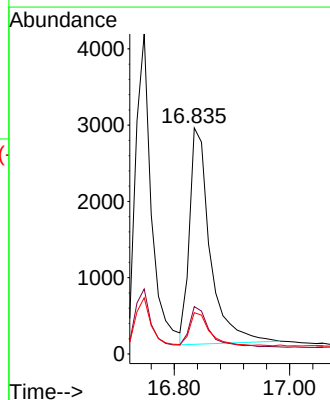
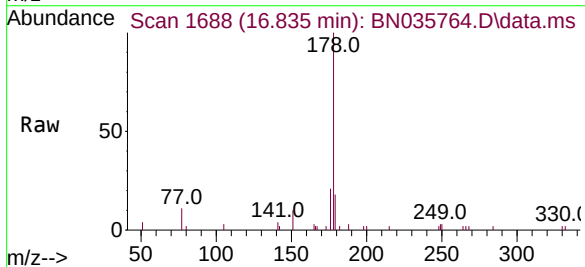
Manual Integrations
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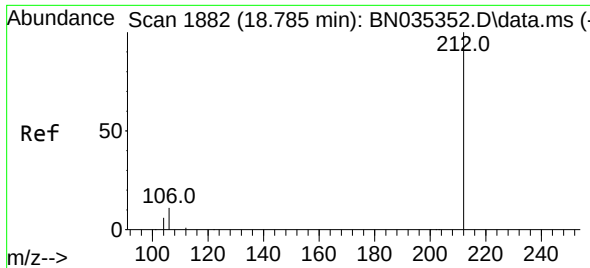
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#26
Anthracene
Concen: 0.412 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

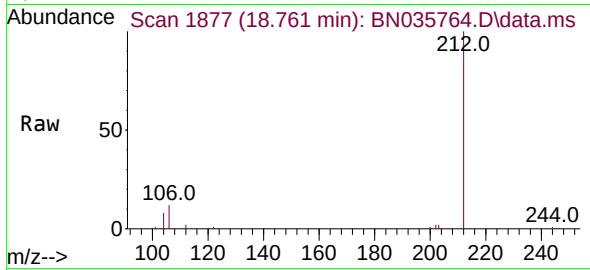
Tgt Ion:178 Resp: 7046
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.7 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.761 min Scan# 1877
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

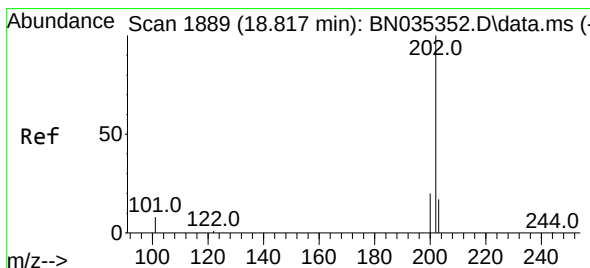
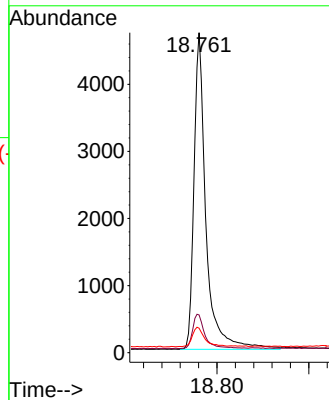
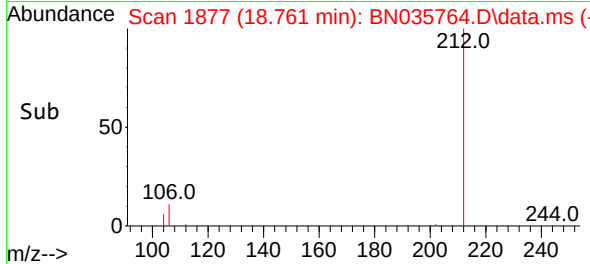
Instrument :
BNA_N
ClientSampleId :
PB165724BS



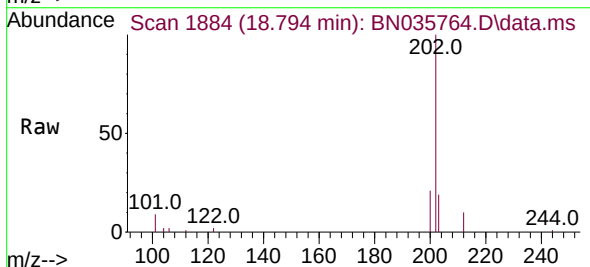
Tgt Ion:212 Resp: 8504
Ion Ratio Lower Upper
212 100
106 11.1 9.2 13.8
104 6.4 5.3 7.9

Manual Integrations
APPROVED

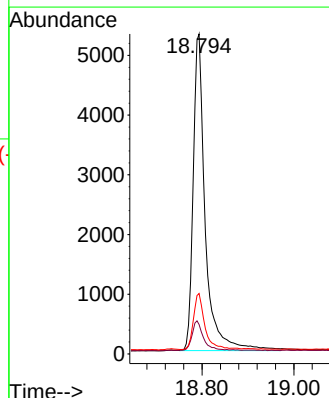
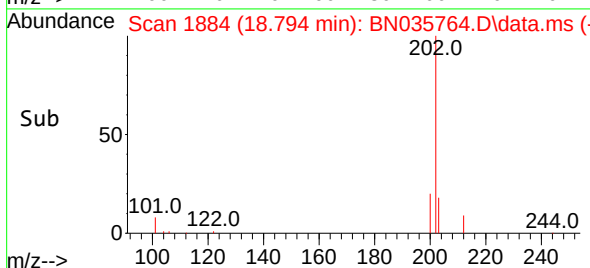
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

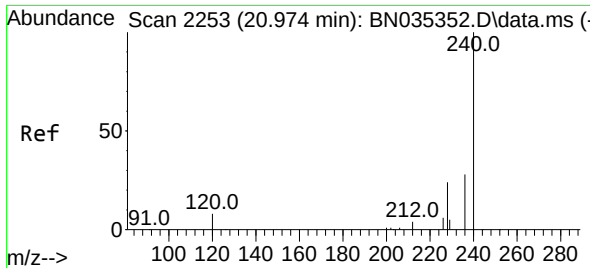


#28
Fluoranthene
Concen: 0.379 ng
RT: 18.794 min Scan# 1884
Delta R.T. 0.004 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34



Tgt Ion:202 Resp: 9671
Ion Ratio Lower Upper
202 100
101 8.7 7.4 11.0
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.955 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

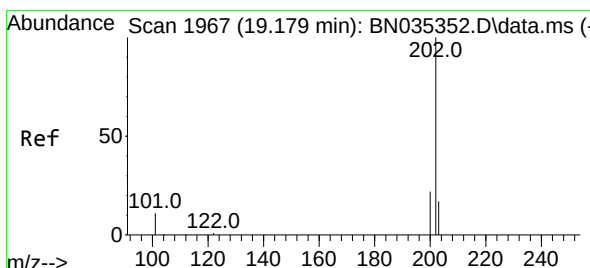
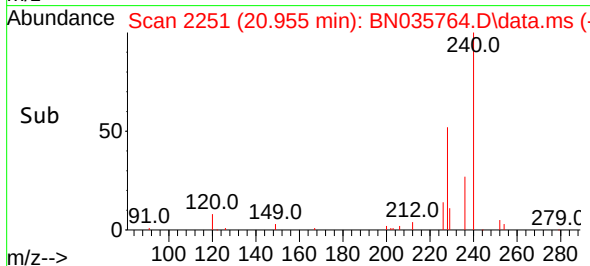
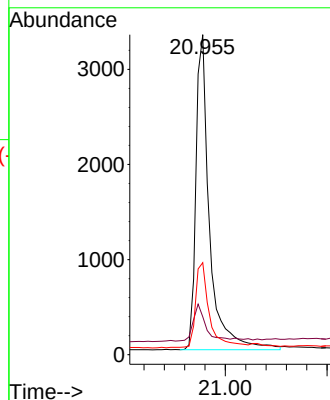
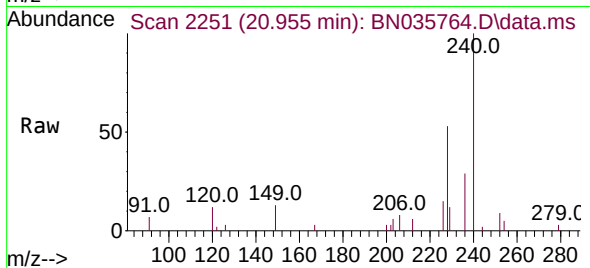
ClientSampleId :

PB165724BS

Tgt Ion:240	Resp:	614
Ion Ratio	Lower	Upper
240	100	
120	11.9	7.9 11.9
236	28.7	22.9 34.3

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



#30

Pyrene

Concen: 0.442 ng

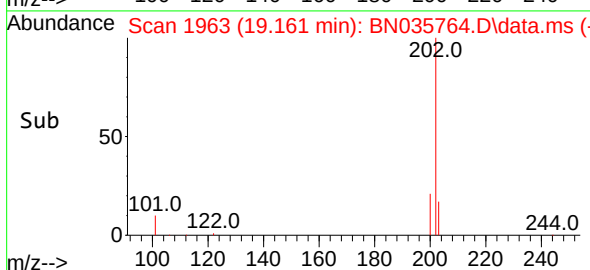
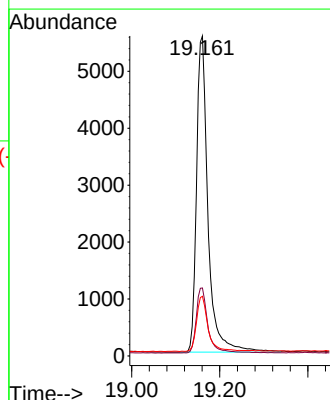
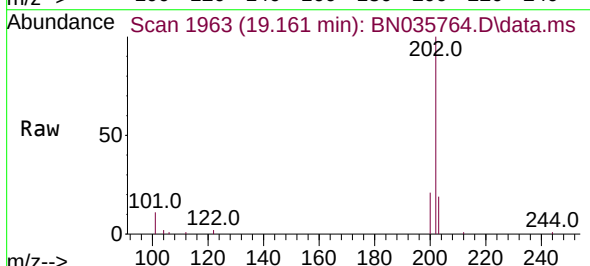
RT: 19.161 min Scan# 1963

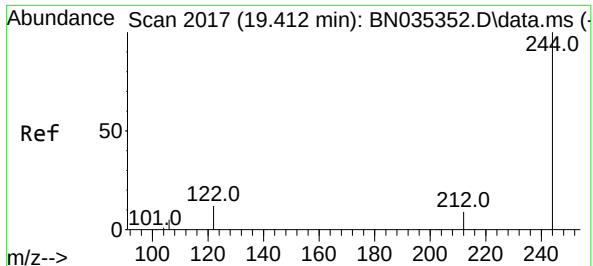
Delta R.T. -0.000 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Tgt Ion:202	Resp:	10032
Ion Ratio	Lower	Upper
202	100	
200	20.9	17.0 25.4
203	17.5	14.3 21.5





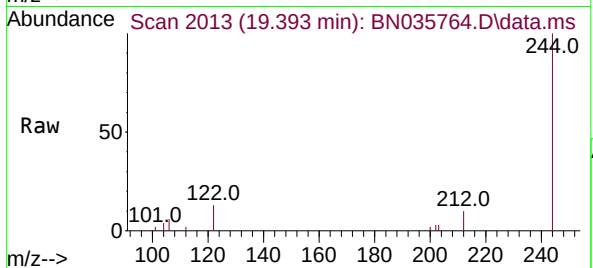
#31
Terphenyl-d14
Concen: 0.501 ng
RT: 19.393 min Scan# 2017
Delta R.T. 0.004 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS

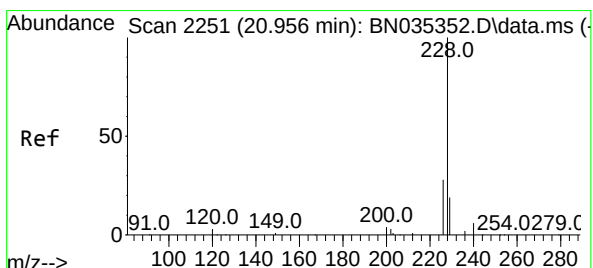
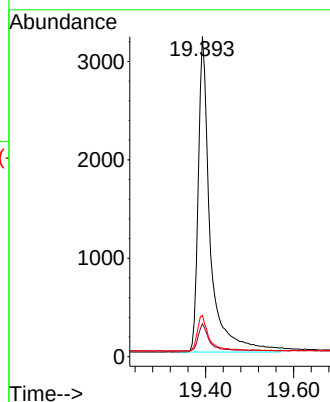
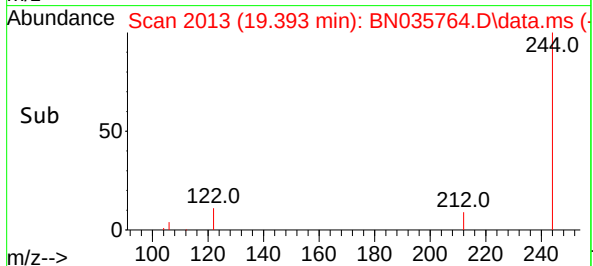


Tgt Ion:244 Resp: 607
Ion Ratio Lower Upper
244 100
212 10.3 8.1 12.1
122 12.9 10.3 15.5

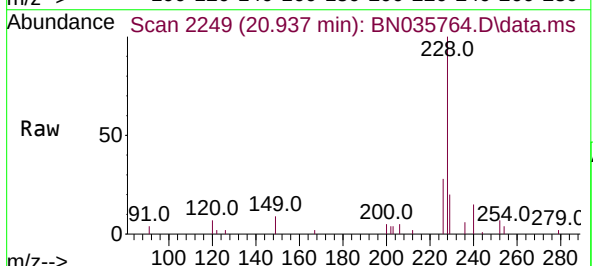
Manual Integrations

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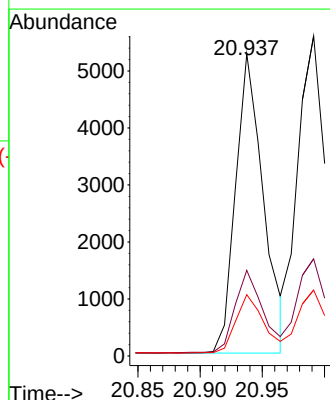
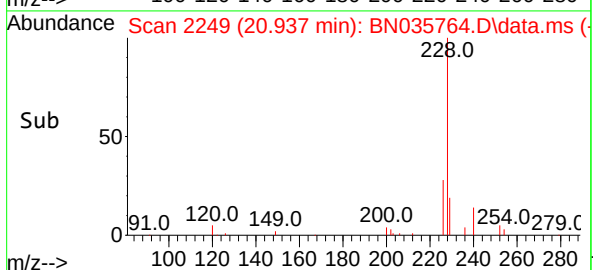
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

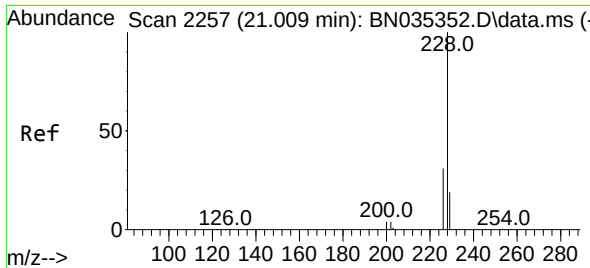


#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 20.937 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34



Tgt Ion:228 Resp: 8148
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 20.3 15.8 23.8





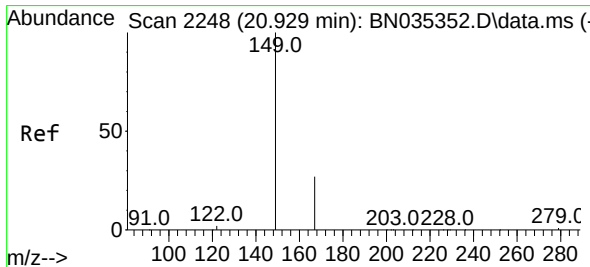
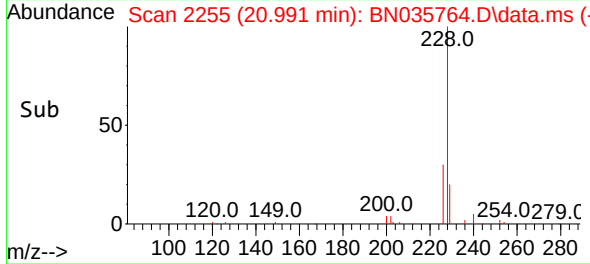
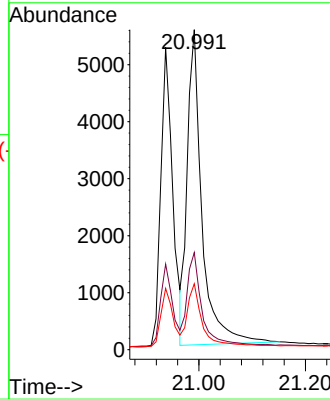
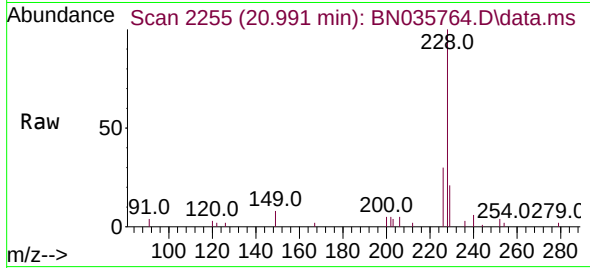
#33
Chrysene
Concen: 0.478 ng
RT: 20.991 min Scan# 210584
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.6	15.9	23.9

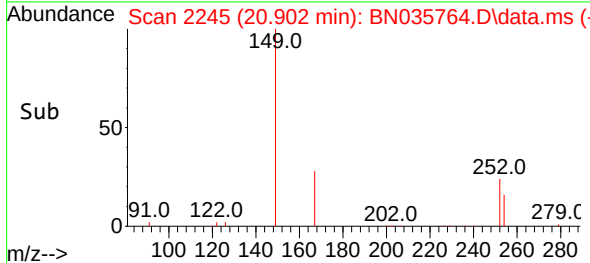
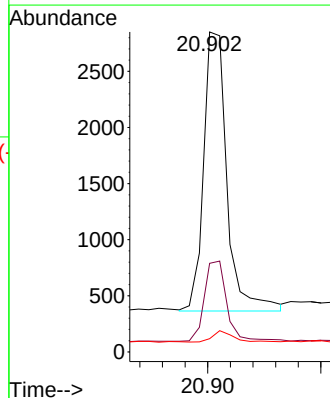
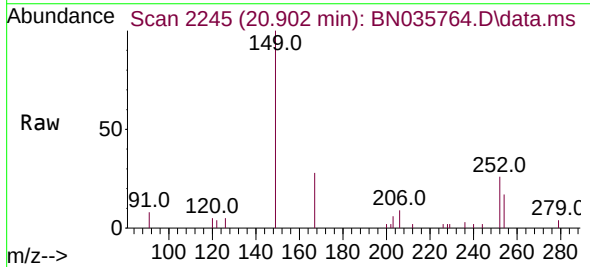
Manual Integrations
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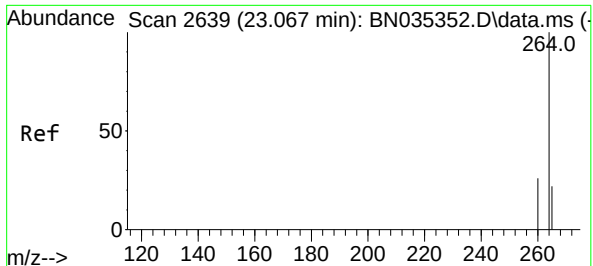
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng m
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.1	2.7	4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.041 min Scan# 2630

Delta R.T. -0.000 min

Lab File: BN035764.D

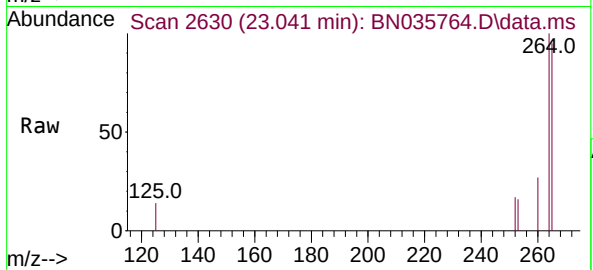
Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS



Tgt Ion:264 Resp: 6570

Ion Ratio Lower Upper

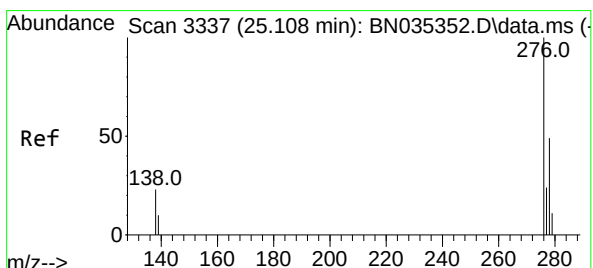
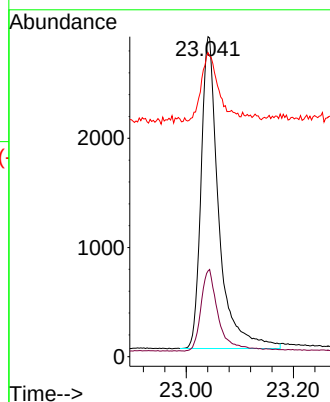
264 100

260 26.8 21.4 32.2

265 95.0 40.2 60.4

Manual Integrations

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

#36

Indeno(1,2,3-cd)pyrene

Concen: 0.443 ng

RT: 25.067 min Scan# 3323

Delta R.T. -0.000 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

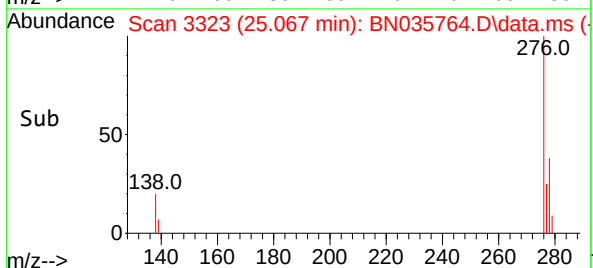
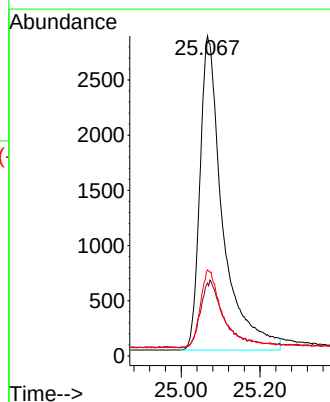
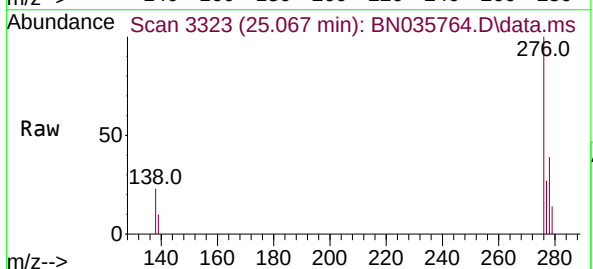
Tgt Ion:276 Resp: 11390

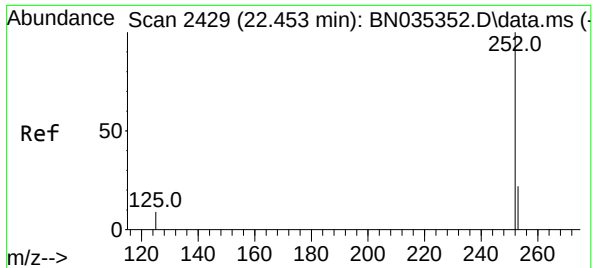
Ion Ratio Lower Upper

276 100

138 20.7 19.4 29.0

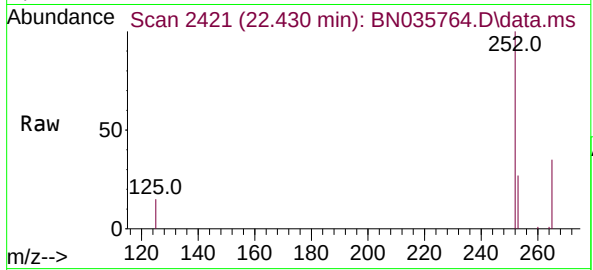
277 24.5 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.578 ng
RT: 22.430 min Scan# 2429
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

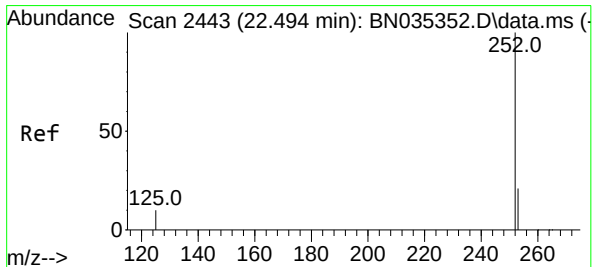
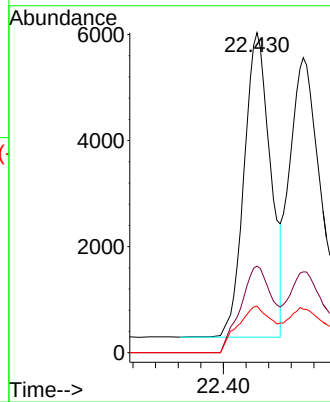
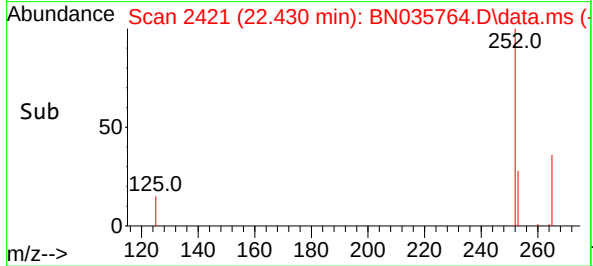
Instrument :
BNA_N
ClientSampleId :
PB165724BS



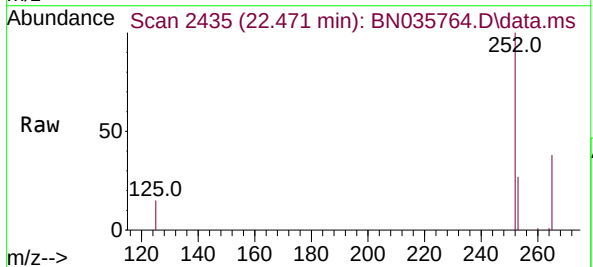
Tgt Ion:252 Resp: 1389
Ion Ratio Lower Upper
252 100
253 27.1 19.6 29.4
125 14.5 9.6 14.4

Manual Integrations
APPROVED

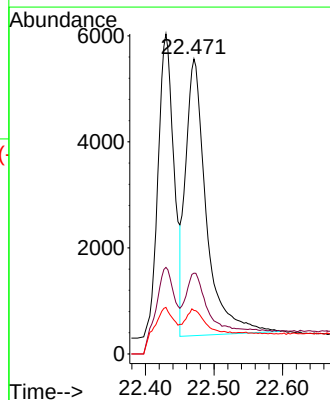
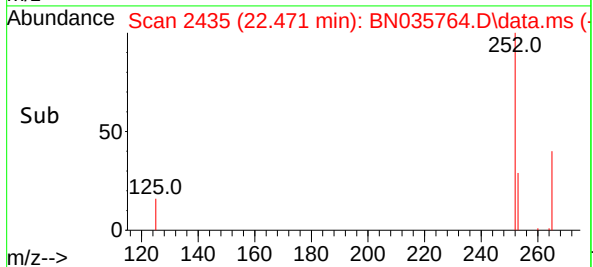
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

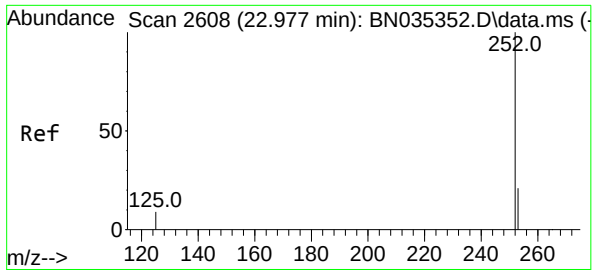


#38
Benzo(k)fluoranthene
Concen: 0.462 ng
RT: 22.471 min Scan# 2435
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34



Tgt Ion:252 Resp: 10950
Ion Ratio Lower Upper
252 100
253 27.4 19.5 29.3
125 14.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.449 ng

RT: 22.956 min Scan# 20

Delta R.T. 0.005 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

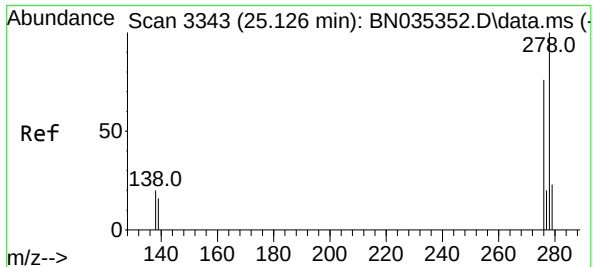
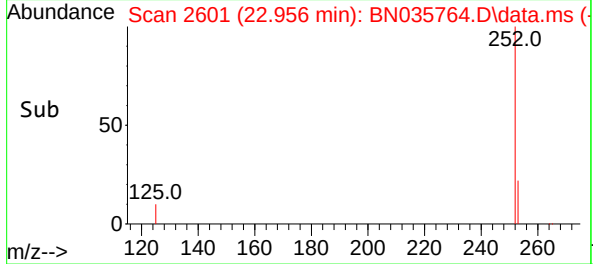
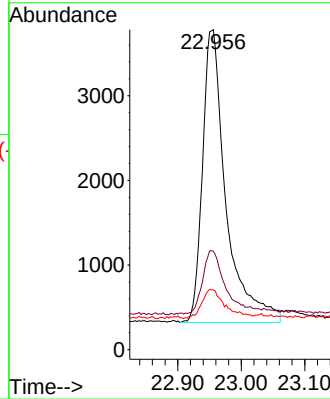
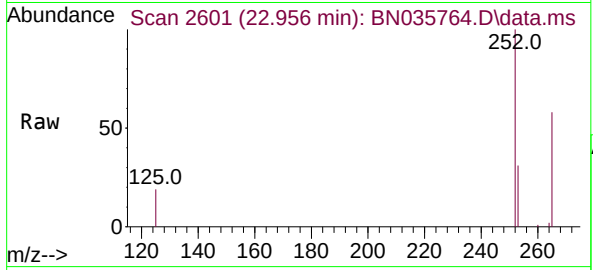
PB165724BS

Tgt Ion:	252	Resp:	888
Ion Ratio	Lower	Upper	
252	100		
253	30.8	20.2	30.4
125	18.7	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: 0.412 ng

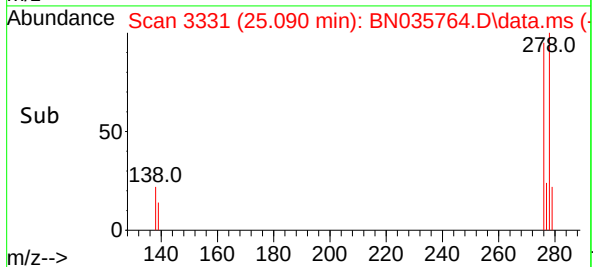
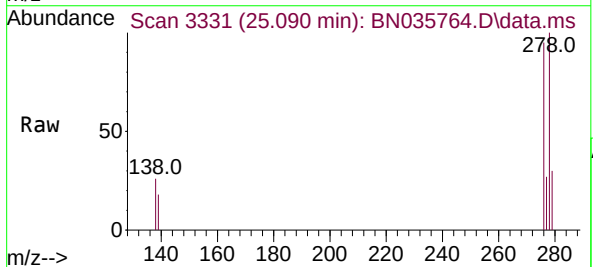
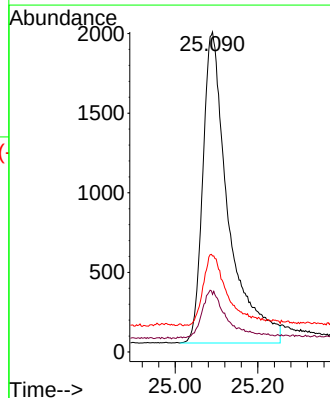
RT: 25.090 min Scan# 3331

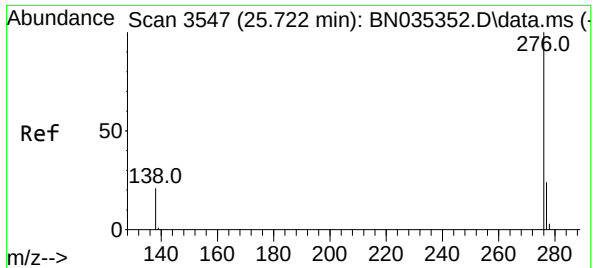
Delta R.T. 0.008 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Tgt Ion:	278	Resp:	8351
Ion Ratio	Lower	Upper	
278	100		
139	18.0	14.2	21.4
279	30.0	20.5	30.7





#41

Benzo(g,h,i)perylene

Concen: 0.453 ng

RT: 25.678 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN035764.D

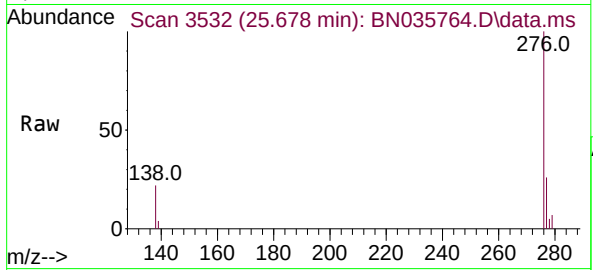
Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS



Tgt Ion:276 Resp: 9590

Ion Ratio Lower Upper

276 100

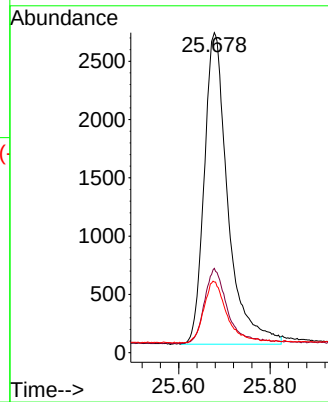
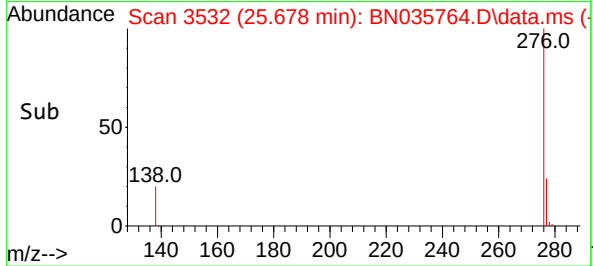
277 26.3 19.9 29.9

138 22.1 17.8 26.8

Manual Integrations

APPROVED

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



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165724BSD	SDG No.:	P5314
Lab Sample ID:	PB165724BSD	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
BN035853.D	1	12/18/24 12:50	12/26/24 14:54	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.45		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		132%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.56	*	55 - 111		140%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47	*	53 - 106		116%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2940	7.257				
1146-65-2	Naphthalene-d8	6910	9.999				
15067-26-2	Acenaphthene-d10	3870	13.914				
1517-22-2	Phenanthrene-d10	7400	16.698				
1719-03-5	Chrysene-d12	5740	20.947				
1520-96-3	Perylene-d12	6250	23.024				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035853.D
 Acq On : 26 Dec 2024 14:54
 Operator : RC/JU
 Sample : PB165724BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165724BSD

Manual Integrations APPROVED

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

Quant Time: Dec 27 00:41:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2938	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	6908	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	3870	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	7401	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	5744	0.400	ng	# 0.00
35) Perylene-d12	23.024	264	6254	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	2679	0.364	ng	-0.01
5) Phenol-d6	6.470	99	2872	0.325	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2354m	0.558	ng	-0.01
11) 2-Methylnaphthalene-d10	11.606	152	5721	0.529	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	445	0.162	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6817	0.466	ng	-0.02
27) Fluoranthene-d10	18.748	212	8300	0.396	ng	-0.01
31) Terphenyl-d14	19.379	244	5786	0.511	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.974	88	1269	0.452	ng	# 81
3) n-Nitrosodimethylamine	3.263	42	1206	0.516	ng	# 93
6) bis(2-Chloroethyl)ether	6.716	93	3004	0.404	ng	99
9) Naphthalene	10.052	128	8072	0.443	ng	99
10) Hexachlorobutadiene	10.340	225	1977	0.470	ng	# 98
12) 2-Methylnaphthalene	11.682	142	5041	0.386	ng	99
16) Acenaphthylene	13.625	152	7205	0.443	ng	99
17) Acenaphthene	13.978	154	4687	0.434	ng	100
18) Fluorene	14.983	166	5947	0.385	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	403	0.554	ng	# 71
21) 4-Bromophenyl-phenylether	15.904	248	1824	0.421	ng	# 94
22) Hexachlorobenzene	15.991	284	2652	0.522	ng	96
23) Atrazine	16.202	200	1370	0.445	ng	95
24) Pentachlorophenol	16.363	266	985	0.445	ng	88
25) Phenanthrene	16.736	178	8677	0.427	ng	100
26) Anthracene	16.835	178	7654	0.416	ng	99
28) Fluoranthene	18.780	202	9853	0.360	ng	99
30) Pyrene	19.147	202	10152	0.479	ng	100
32) Benzo(a)anthracene	20.929	228	7921	0.394	ng	99
33) Chrysene	20.983	228	10214	0.493	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	3576	0.451	ng	99
36) Indeno(1,2,3-cd)pyrene	25.047	276	12472	0.510	ng	100
37) Benzo(b)fluoranthene	22.416	252	13352	0.584	ng	# 93
38) Benzo(k)fluoranthene	22.456	252	10641	0.473	ng	# 93
39) Benzo(a)pyrene	22.939	252	9066	0.481	ng	# 88
40) Dibenzo(a,h)anthracene	25.070	278	9318	0.483	ng	93
41) Benzo(g,h,i)perylene	25.652	276	10352	0.513	ng	97

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

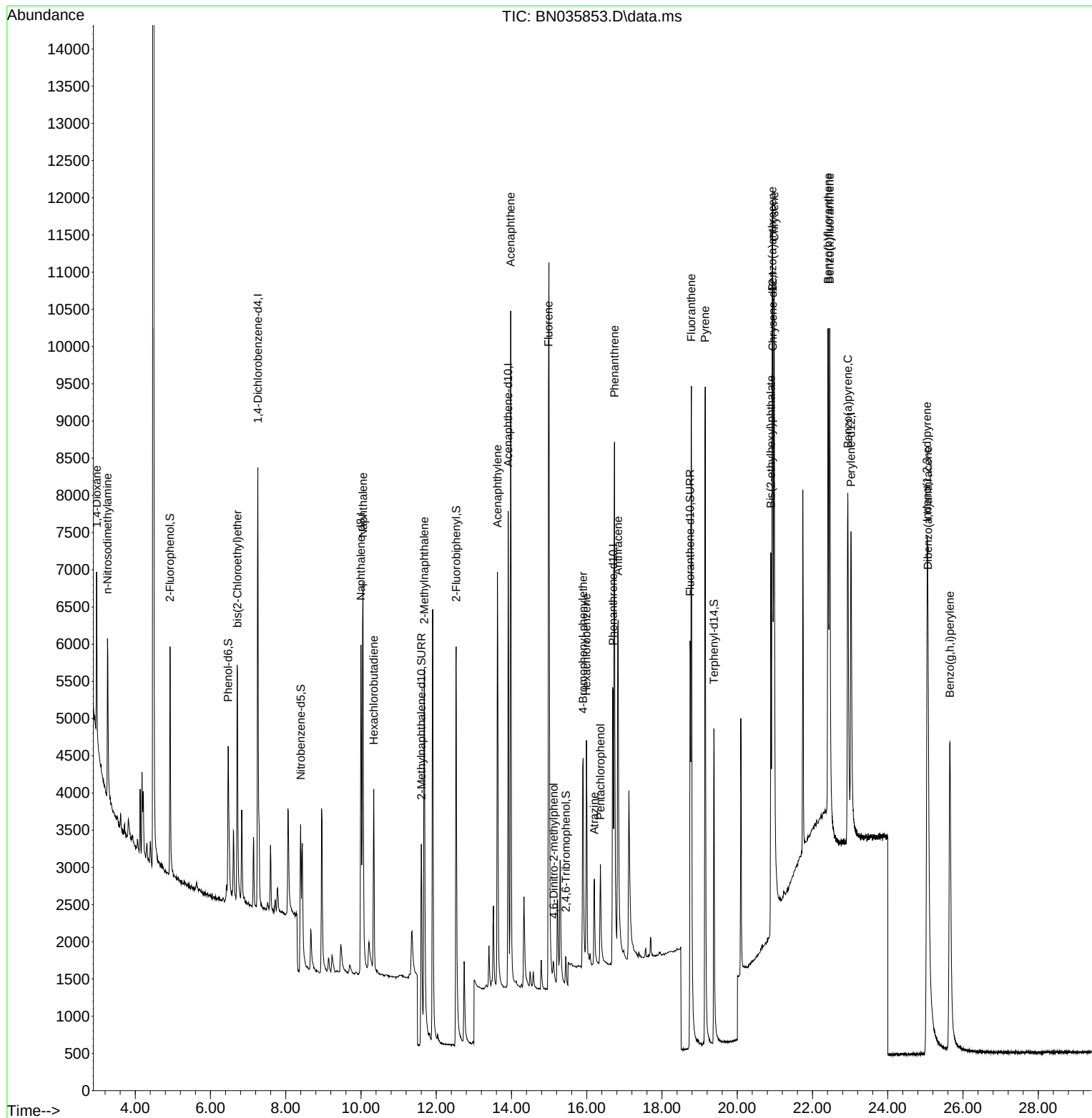
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035853.D
 Acq On : 26 Dec 2024 14:54
 Operator : RC/JU
 Sample : PB165724BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

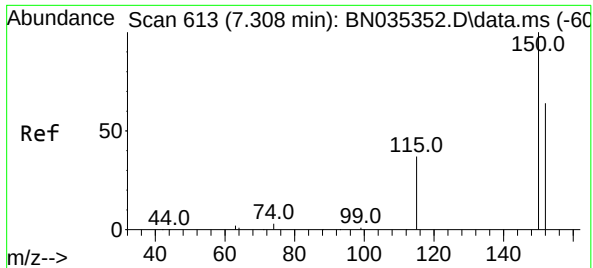
Instrument :
 BNA_N
 ClientSampleId :
 PB165724BSD

Manual Integrations APPROVED

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

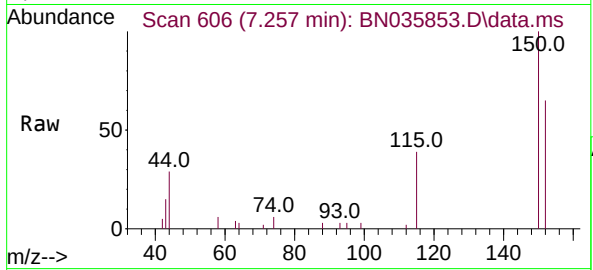
Quant Time: Dec 27 00:41:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

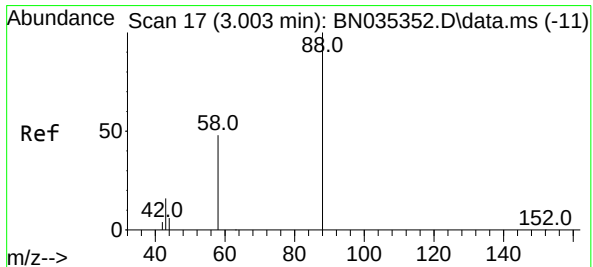
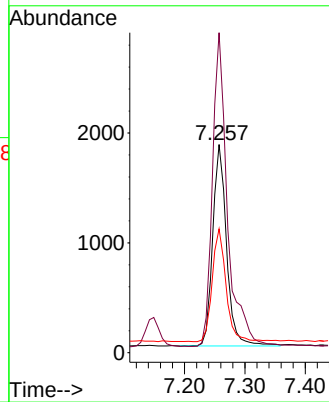
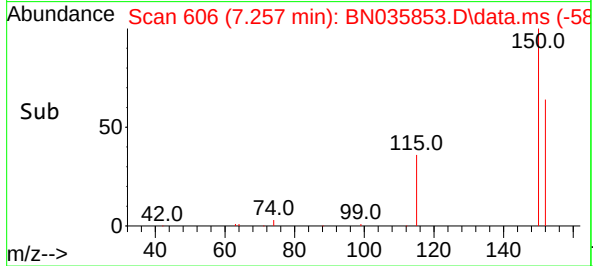
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



Tgt Ion: 152 Resp: 2938
Ion Ratio Lower Upper
152 100
150 153.7 124.0 186.0
115 59.5 49.6 74.4

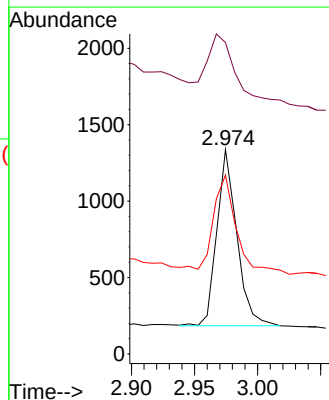
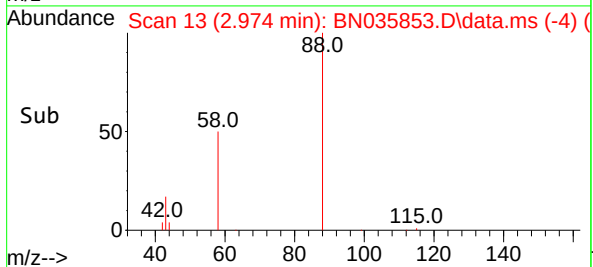
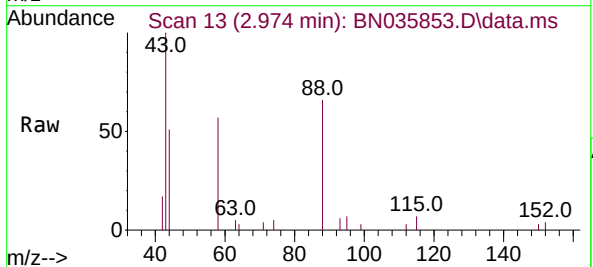
Manual Integrations
APPROVED

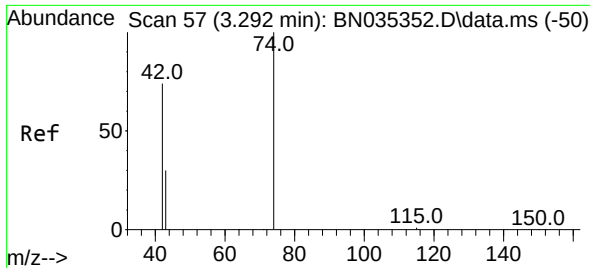
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#2
1,4-Dioxane
Concen: 0.452 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

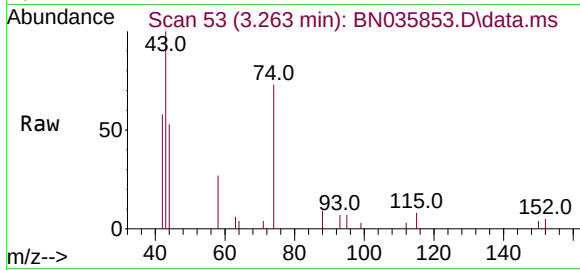
Tgt Ion: 88 Resp: 1269
Ion Ratio Lower Upper
88 100
43 50.4 17.2 25.8#
58 57.4 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.516 ng
RT: 3.263 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

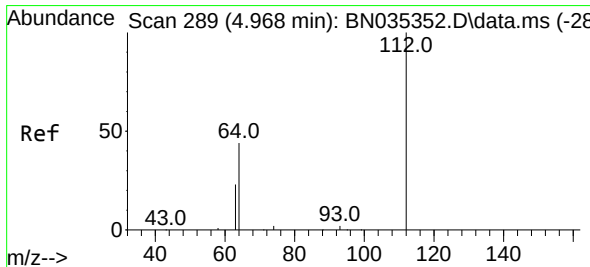
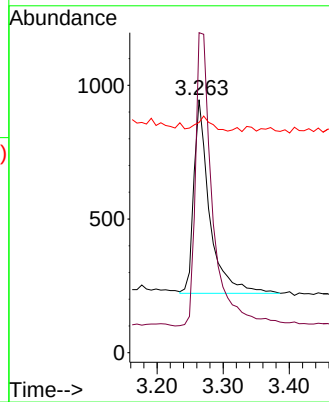
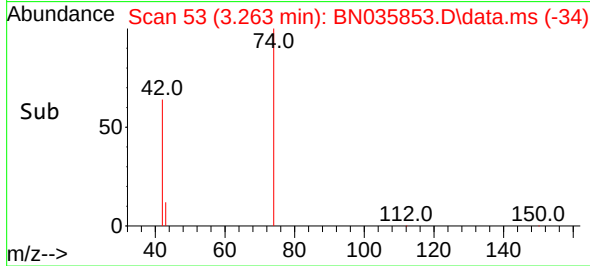
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



Tgt Ion: 42 Resp: 1200
Ion Ratio Lower Upper
42 100
74 165.3 124.9 187.3
44 6.5 2.2 3.4

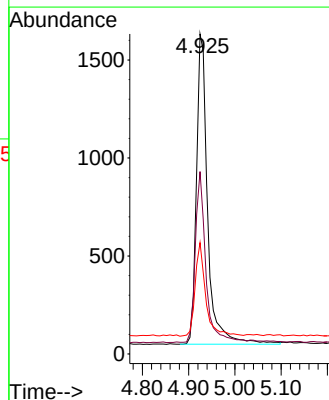
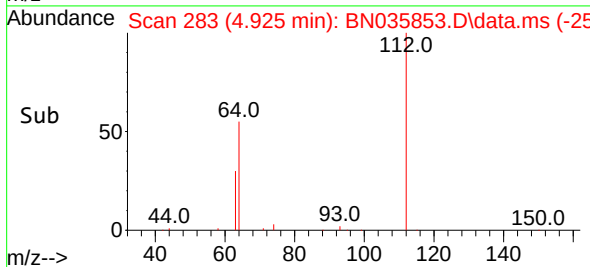
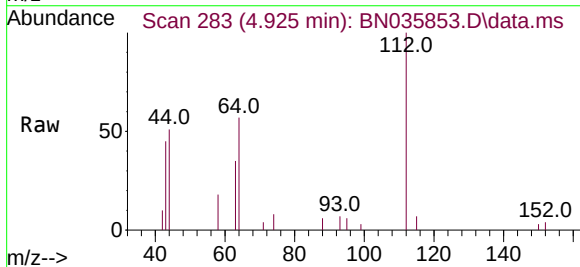
Manual Integrations
APPROVED

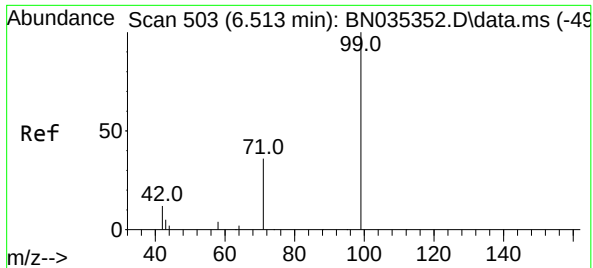
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#4
2-Fluorophenol
Concen: 0.364 ng
RT: 4.925 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

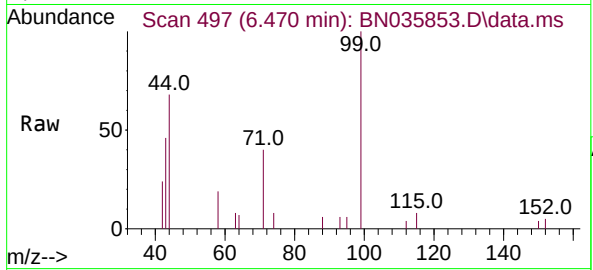
Tgt Ion:112 Resp: 2679
Ion Ratio Lower Upper
112 100
64 51.6 39.8 59.8
63 28.3 21.0 31.6





#5
Phenol-d6
Concen: 0.325 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

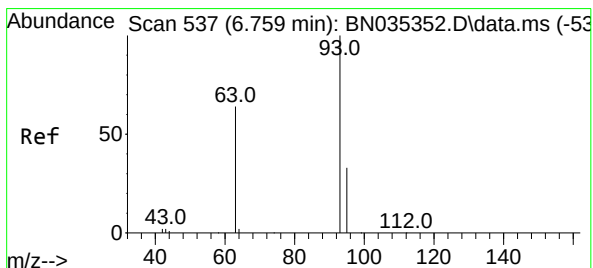
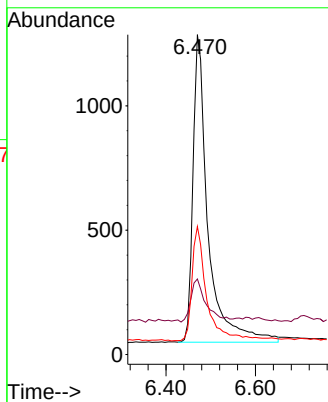
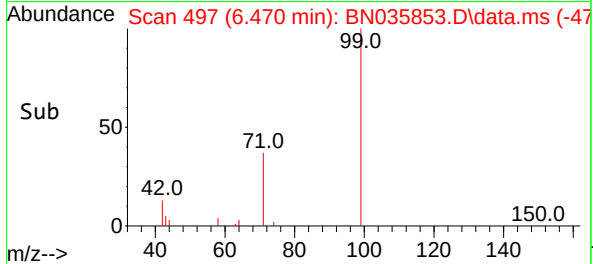
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



Tgt Ion: 99 Resp: 2872
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.2
71 36.4 29.3 43.9

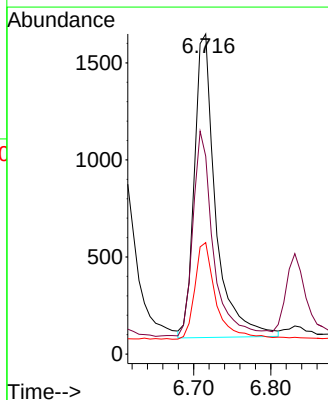
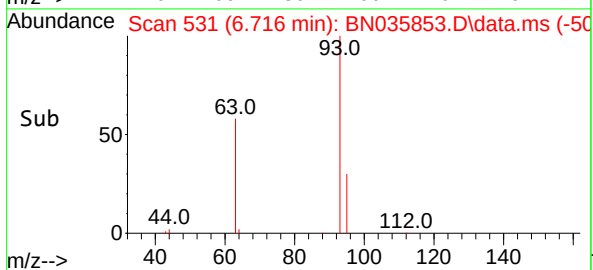
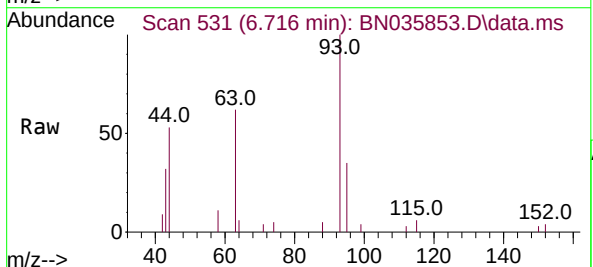
Manual Integrations
APPROVED

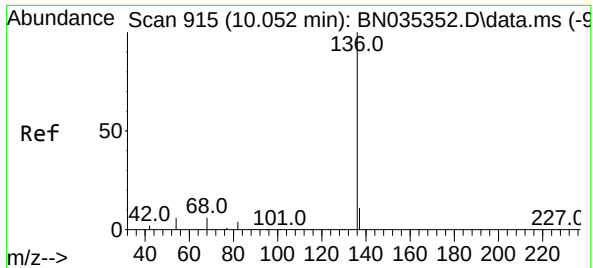
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 93 Resp: 3004
Ion Ratio Lower Upper
93 100
63 64.0 50.4 75.6
95 32.8 25.7 38.5





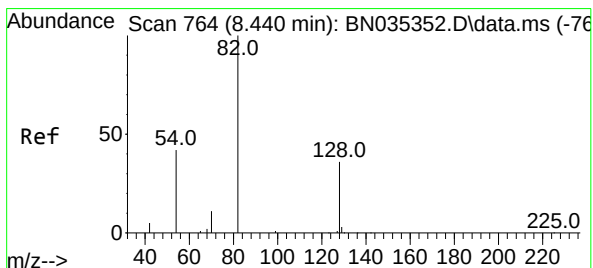
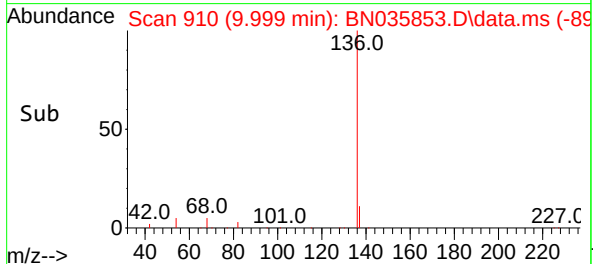
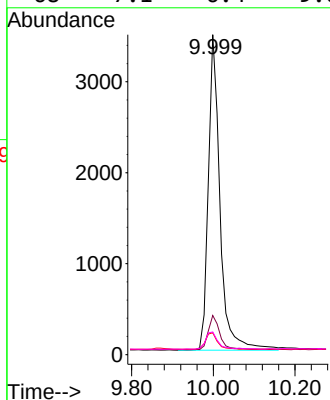
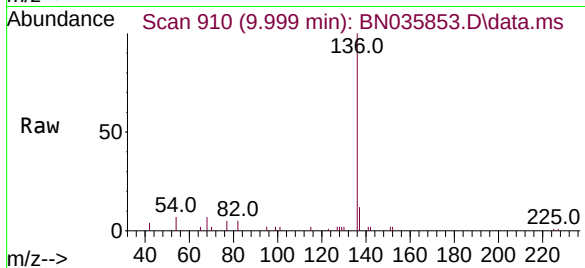
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:	136	Resp:	6908
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6

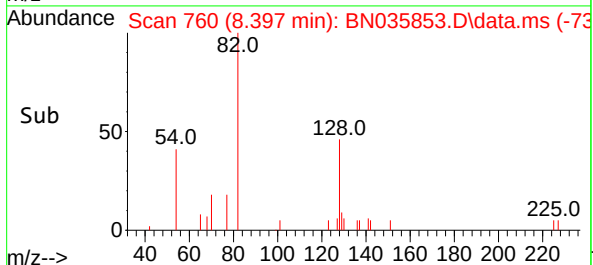
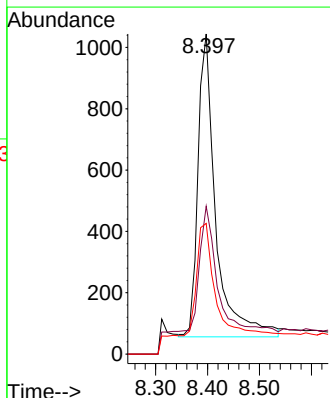
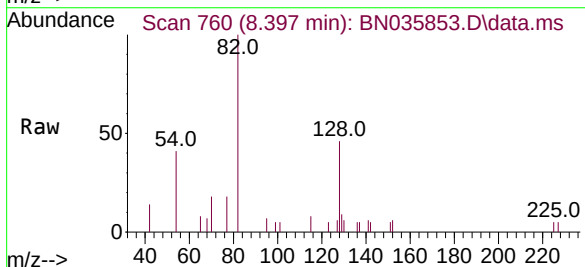
Manual Integrations
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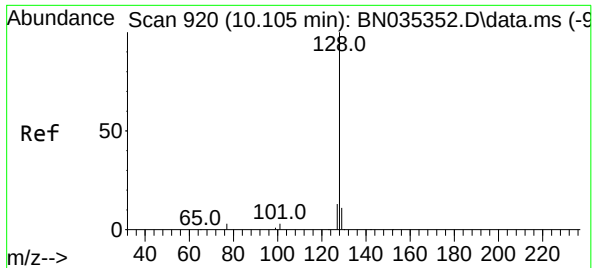
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#8
Nitrobenzene-d5
Concen: 0.558 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:	82	Resp:	2354
Ion	Ratio	Lower	Upper
82	100		
128	46.2	33.4	50.0
54	40.8	36.7	55.1





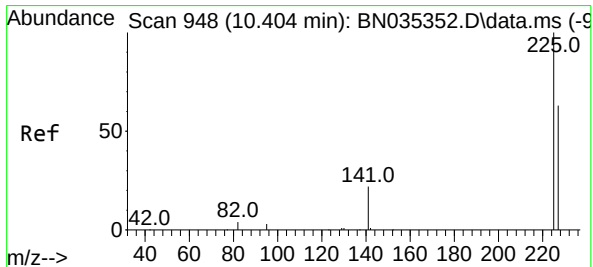
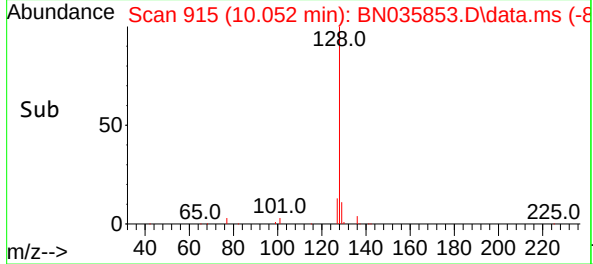
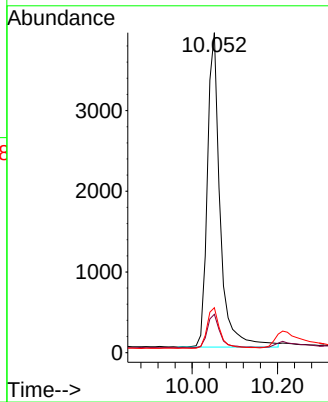
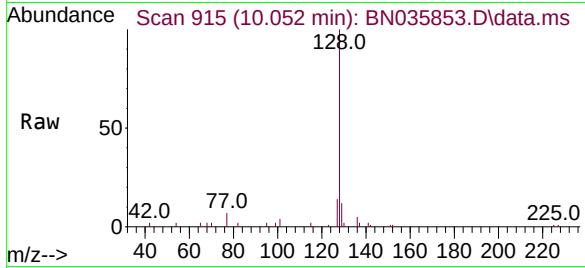
#9
Naphthalene
Concen: 0.443 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:128 Resp: 8072
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.0 11.4 17.2

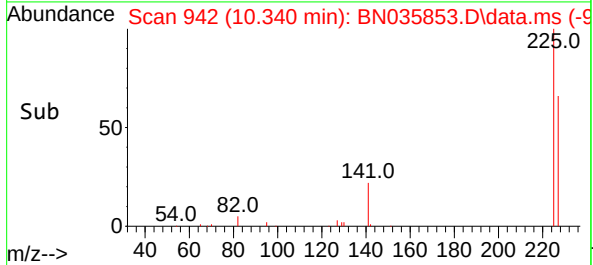
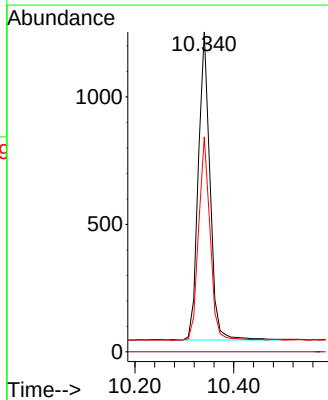
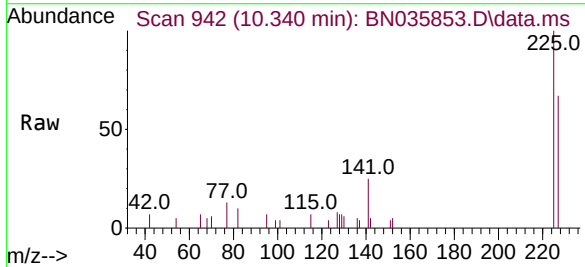
Manual Integrations
APPROVED

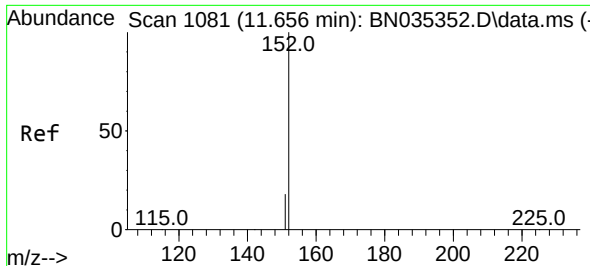
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#10
Hexachlorobutadiene
Concen: 0.470 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

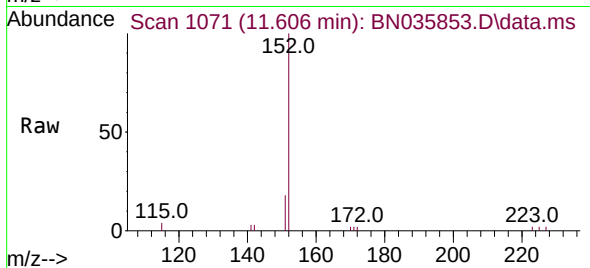
Tgt Ion:225 Resp: 1977
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.529 ng
RT: 11.606 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

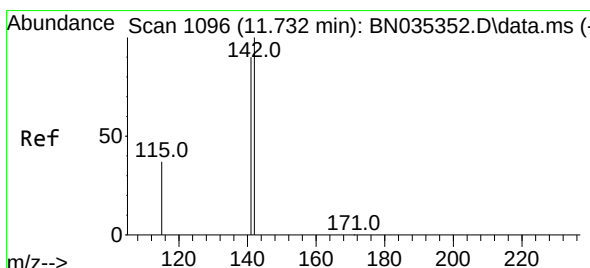
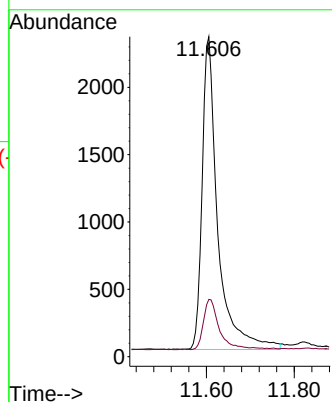
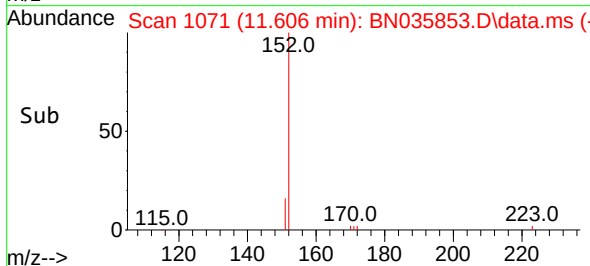
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



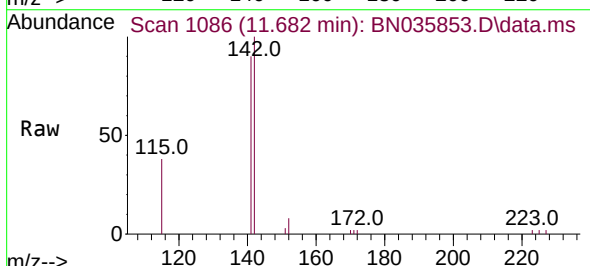
Tgt Ion:152 Resp: 572
Ion Ratio Lower Upper
152 100
151 16.5 16.6 25.0

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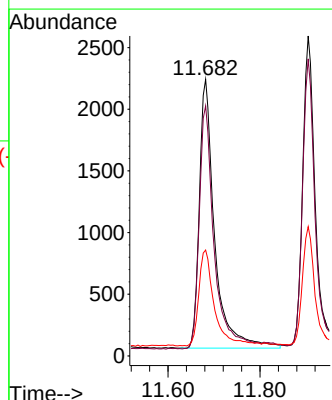
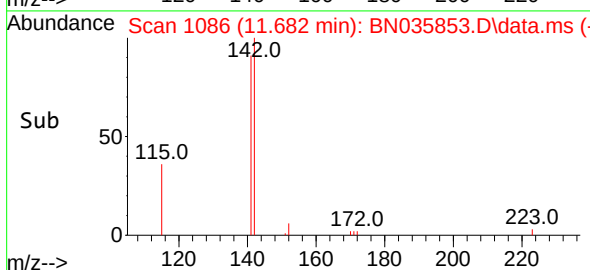
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

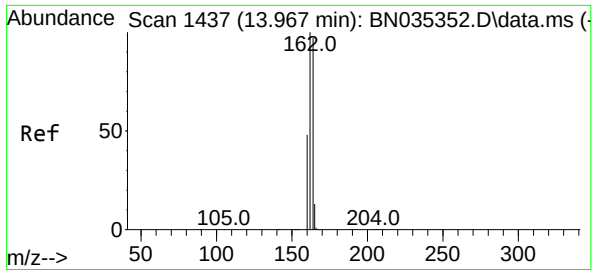


#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54



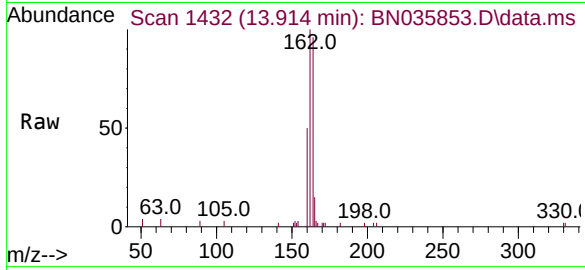
Tgt Ion:142 Resp: 5041
Ion Ratio Lower Upper
142 100
141 90.4 72.2 108.4
115 38.3 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

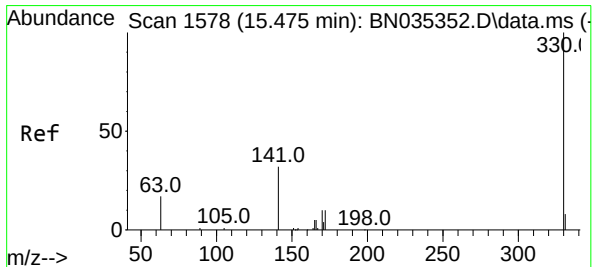
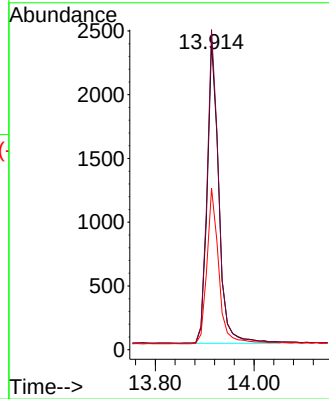
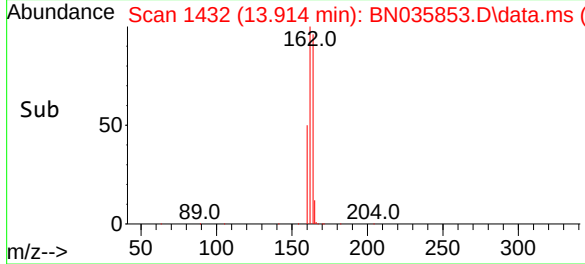
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



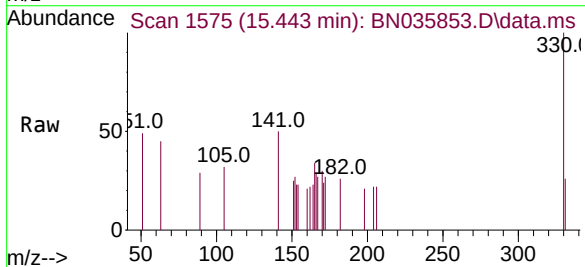
Tgt Ion:164 Resp: 3870
Ion Ratio Lower Upper
164 100
162 104.0 82.2 123.2
160 52.5 40.1 60.1

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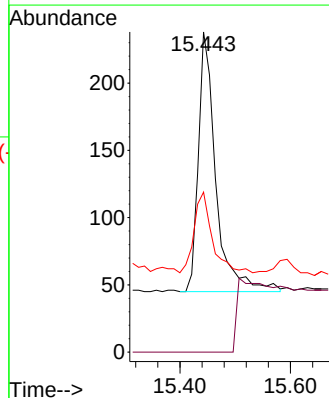
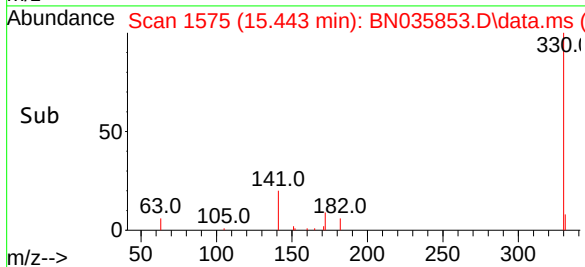
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

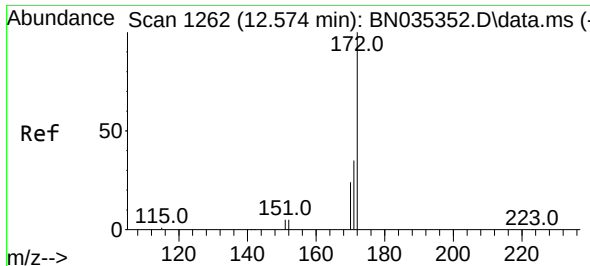


#14
2,4,6-Tribromophenol
Concen: 0.162 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54



Tgt Ion:330 Resp: 445
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 31.2 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.466 ng

RT: 12.528 min Scan# 11

Delta R.T. -0.015 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

Instrument :

BNA_N

ClientSampleId :

PB165724BSD

Tgt Ion:172 Resp: 681

Ion Ratio Lower Upper

172 100

171 35.5 29.0 43.4

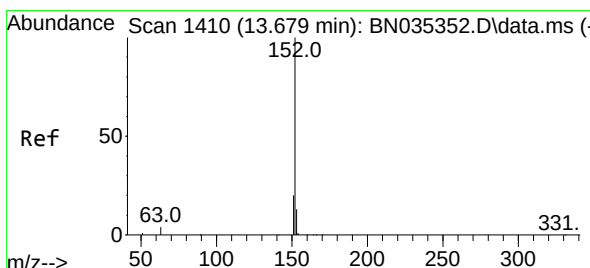
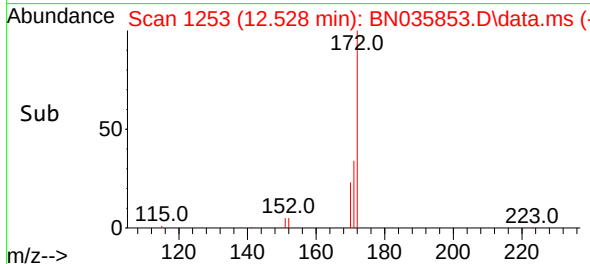
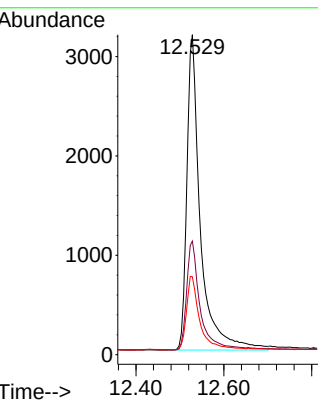
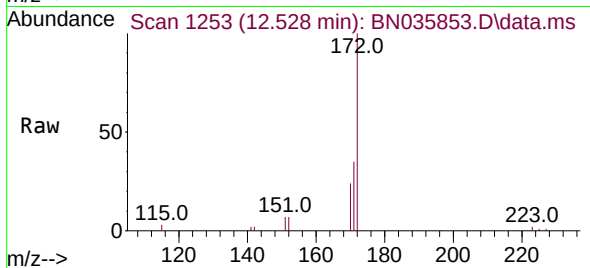
170 24.3 19.8 29.8

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#16

Acenaphthylene

Concen: 0.443 ng

RT: 13.625 min Scan# 1405

Delta R.T. -0.021 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

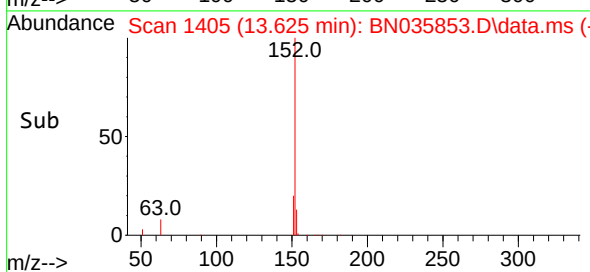
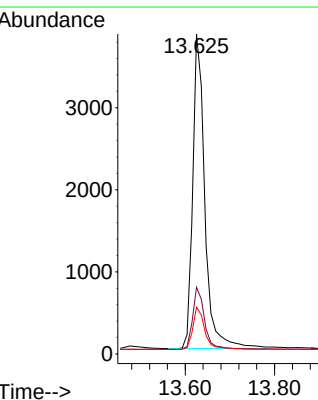
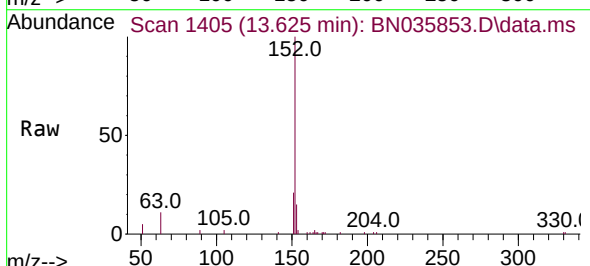
Tgt Ion:152 Resp: 7205

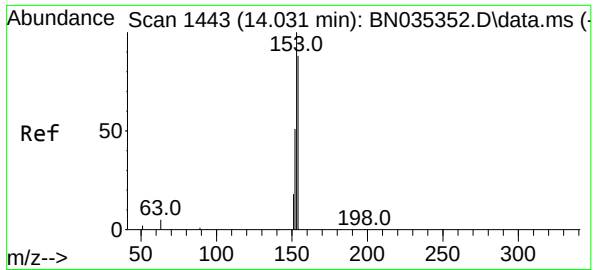
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

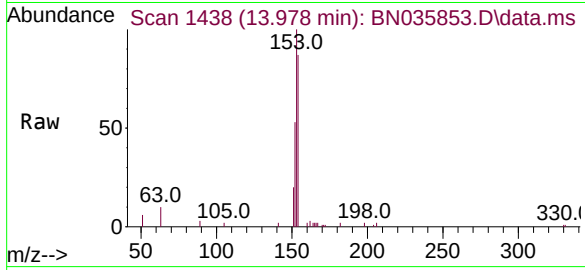
153 13.3 10.4 15.6





#17
Acenaphthene
Concen: 0.434 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

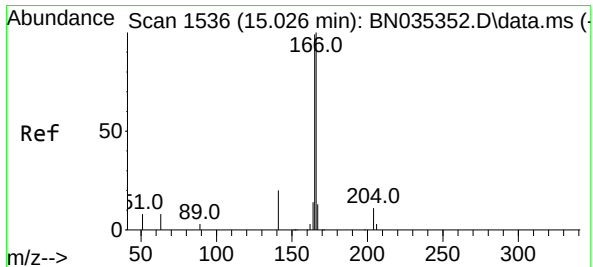
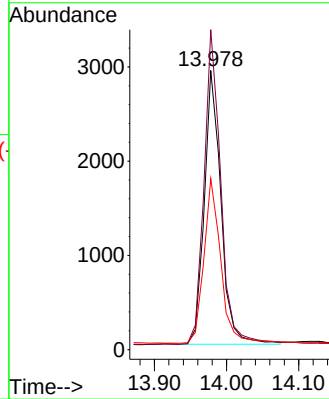
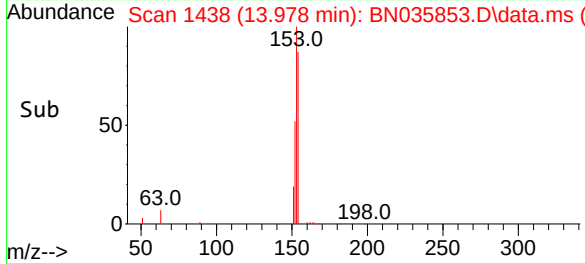
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



Tgt Ion:154 Resp: 468
Ion Ratio Lower Upper
154 100
153 116.4 92.6 139.0
152 61.2 49.0 73.6

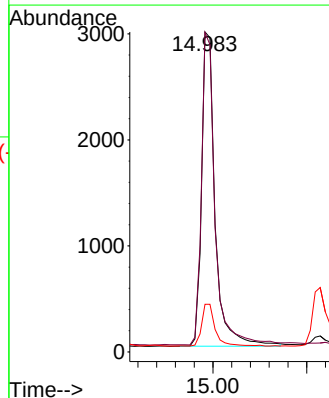
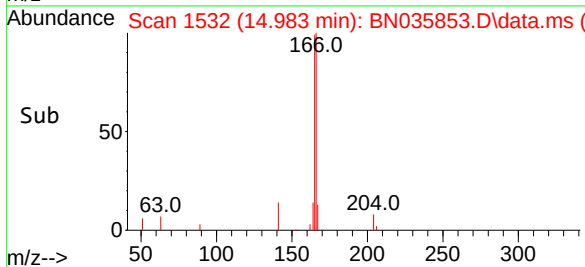
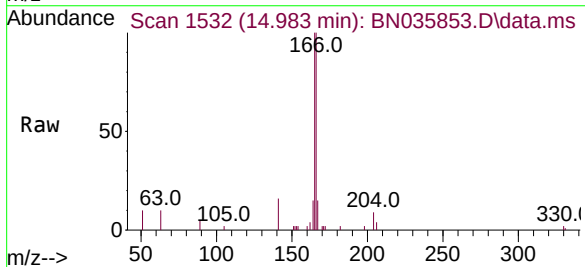
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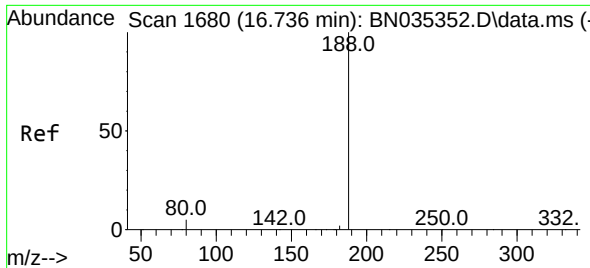
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#18
Fluorene
Concen: 0.385 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

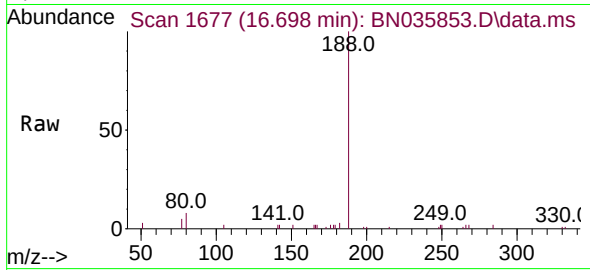
Tgt Ion:166 Resp: 5947
Ion Ratio Lower Upper
166 100
165 98.8 79.7 119.5
167 13.3 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

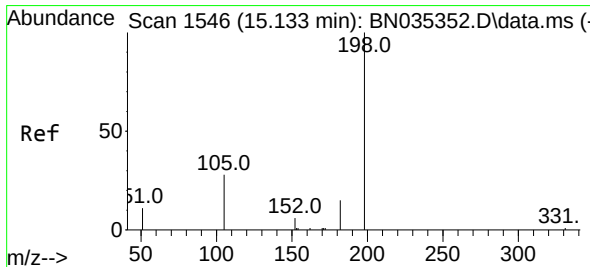
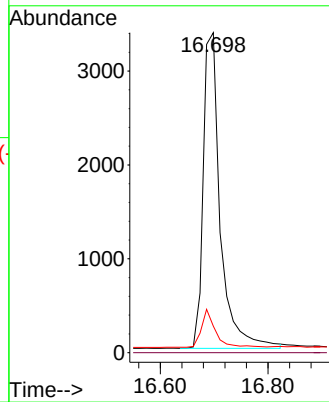
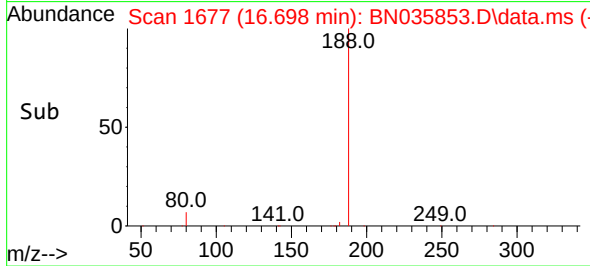
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



Tgt Ion:188 Resp: 740
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.6 6.8

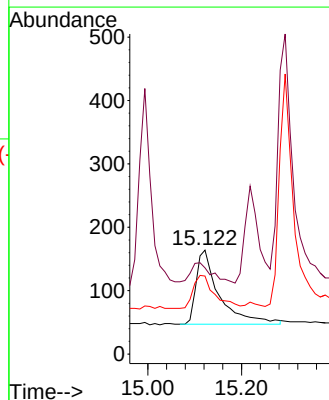
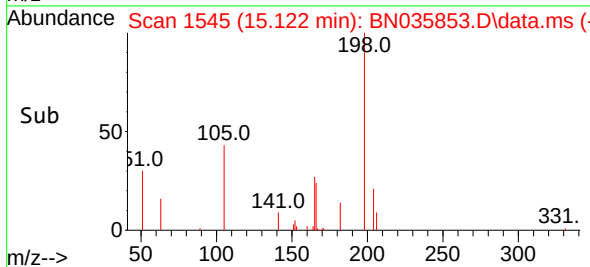
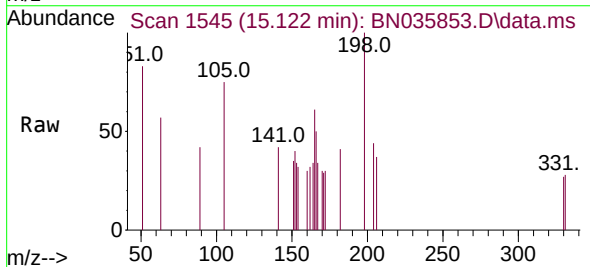
Manual Integrations
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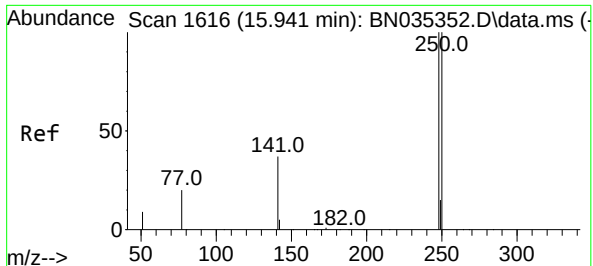
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.554 ng
RT: 15.122 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

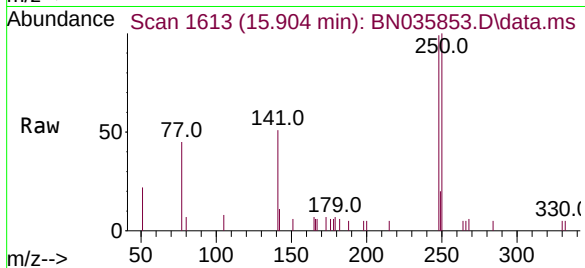
Tgt Ion:198 Resp: 403
Ion Ratio Lower Upper
198 100
51 82.9 46.5 69.7#
105 75.0 45.3 67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 15.904 min Scan# 1616
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

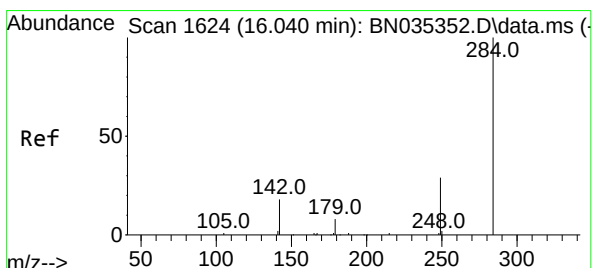
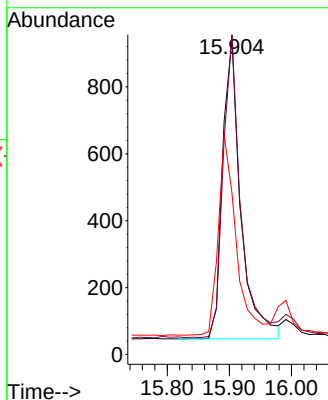
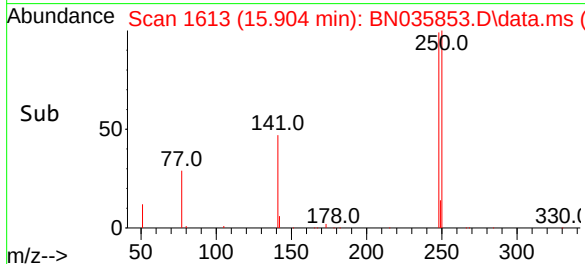
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



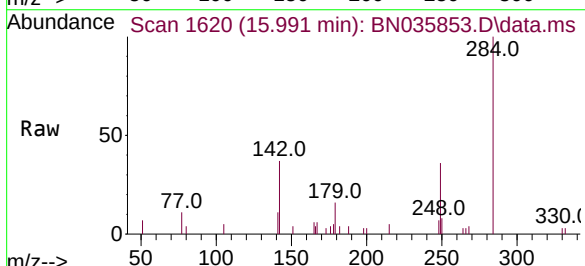
Tgt Ion:248 Resp: 1824
Ion Ratio Lower Upper
248 100
250 101.3 80.6 120.8
141 51.2 31.5 47.3

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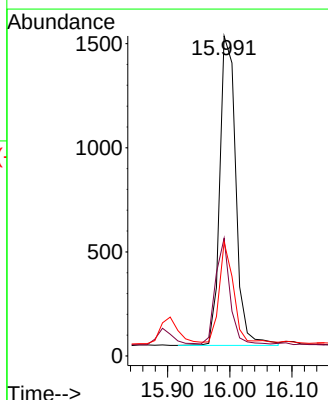
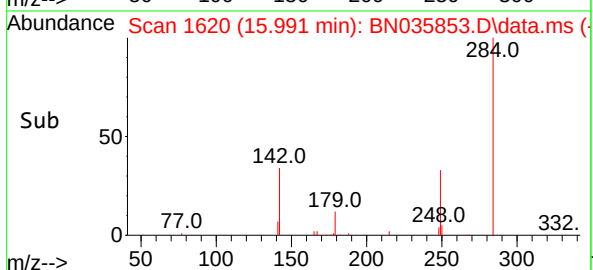
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

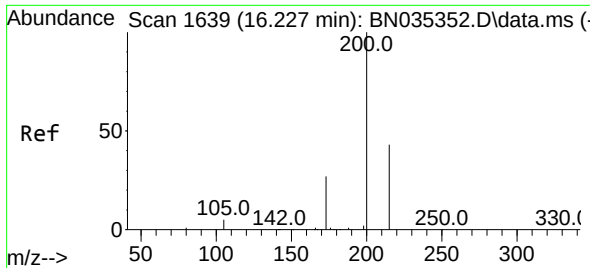


#22
Hexachlorobenzene
Concen: 0.522 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54



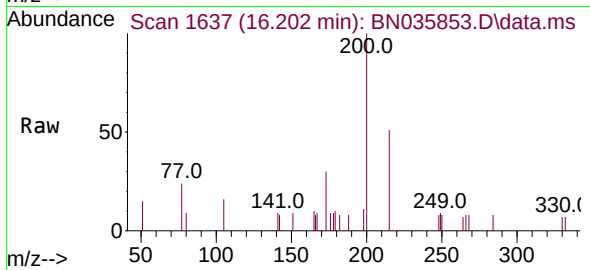
Tgt Ion:284 Resp: 2652
Ion Ratio Lower Upper
284 100
142 30.7 26.7 40.1
249 28.9 24.6 36.8





#23
Atrazine
Concen: 0.445 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

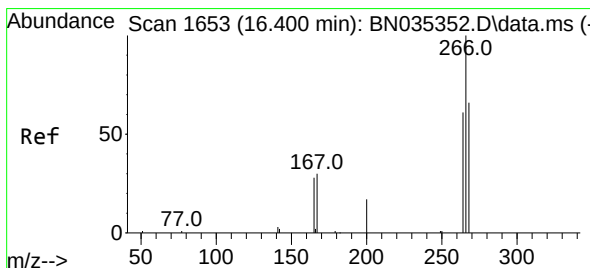
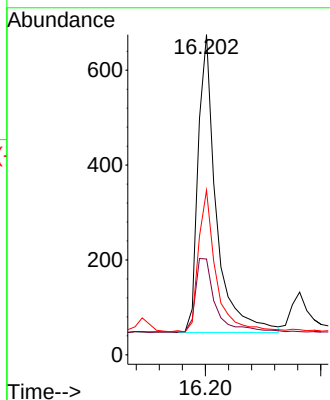
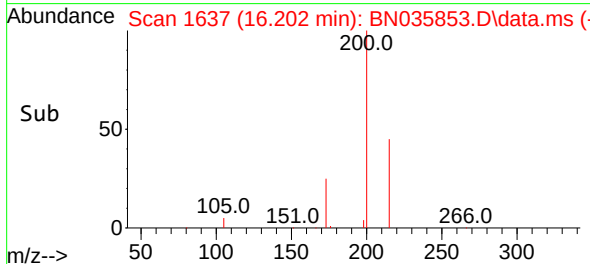
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



Tgt Ion:200 Resp: 1370
Ion Ratio Lower Upper
200 100
173 29.9 24.1 36.1
215 51.4 36.9 55.3

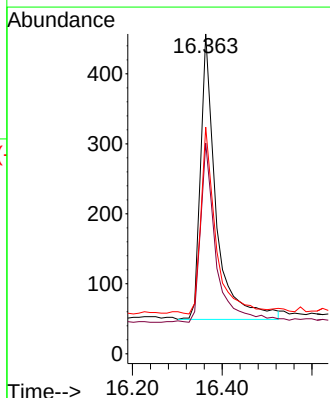
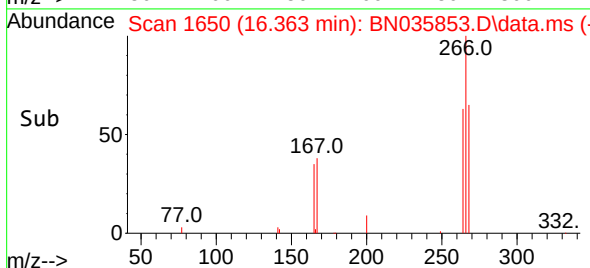
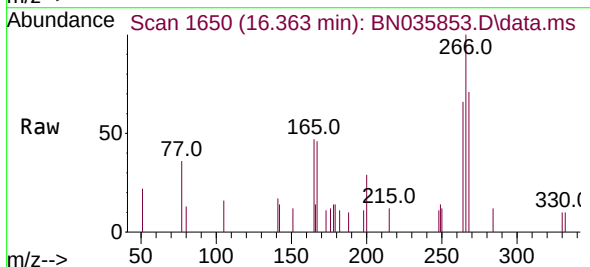
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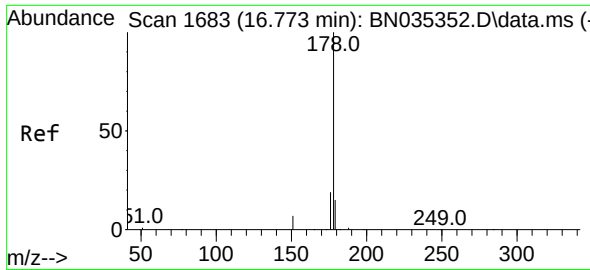
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#24
Pentachlorophenol
Concen: 0.445 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:266 Resp: 985
Ion Ratio Lower Upper
266 100
264 62.0 42.3 63.5
268 61.4 43.3 64.9





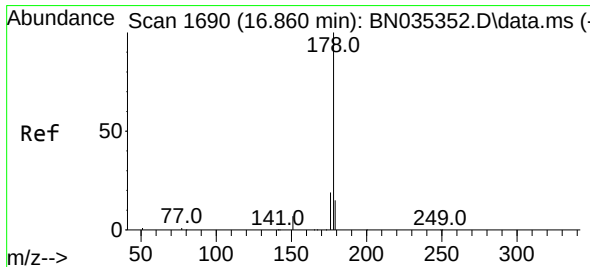
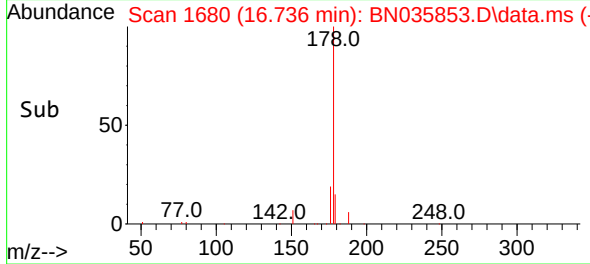
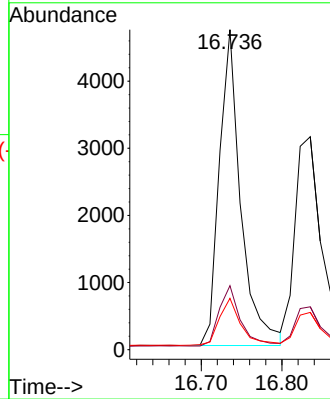
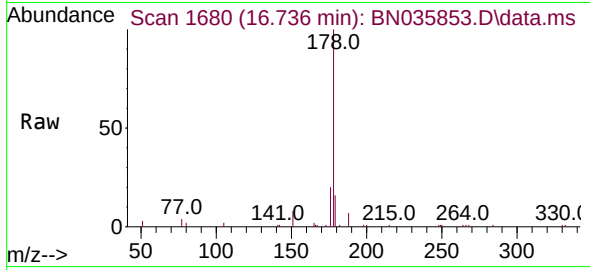
#25
Phenanthrene
Concen: 0.427 ng
RT: 16.736 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:178 Resp: 867
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5

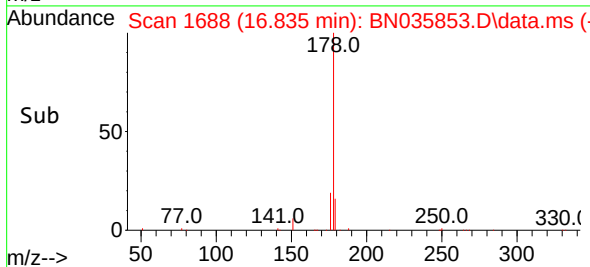
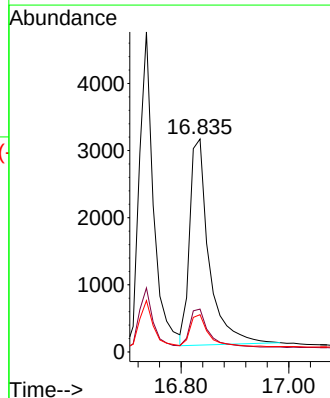
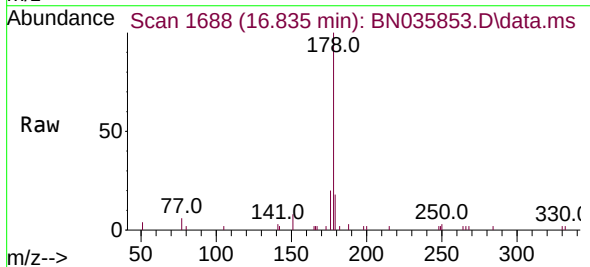
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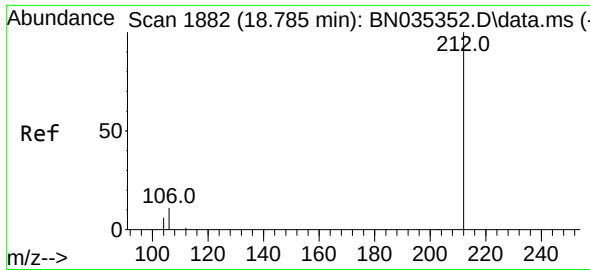
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#26
Anthracene
Concen: 0.416 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

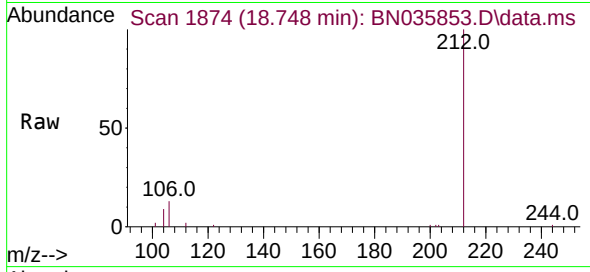
Tgt Ion:178 Resp: 7654
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.3 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.396 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

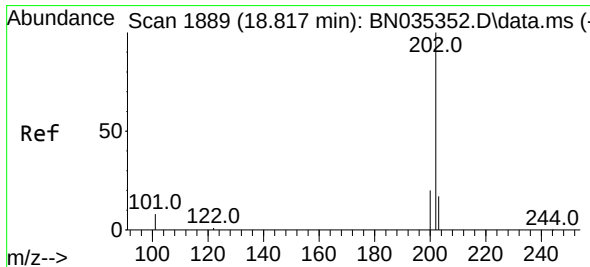
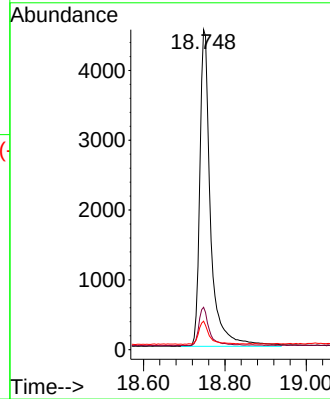
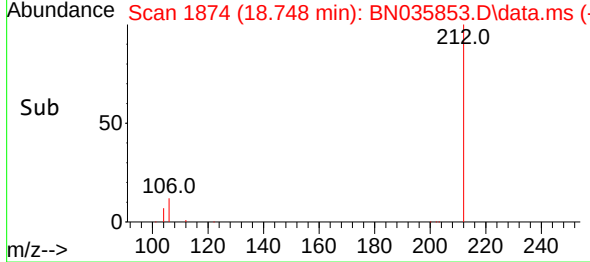
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



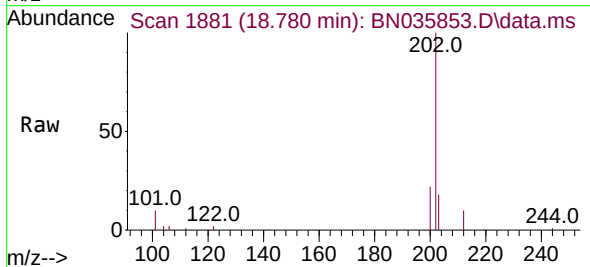
Tgt Ion:212 Resp: 8300
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 7.2 5.3 7.9

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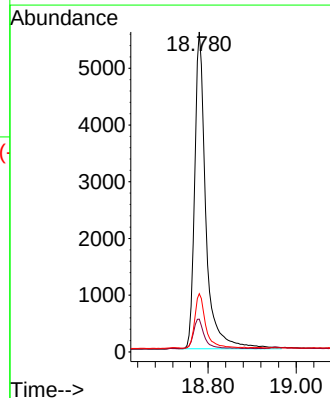
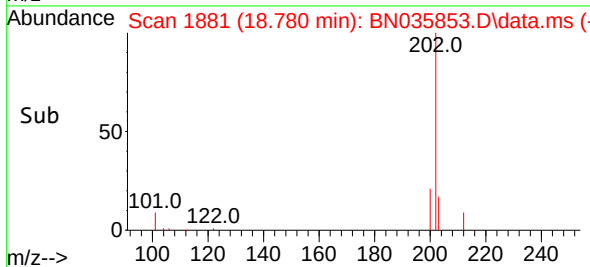
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

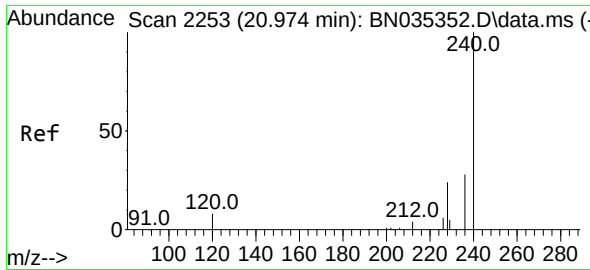


#28
Fluoranthene
Concen: 0.360 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54



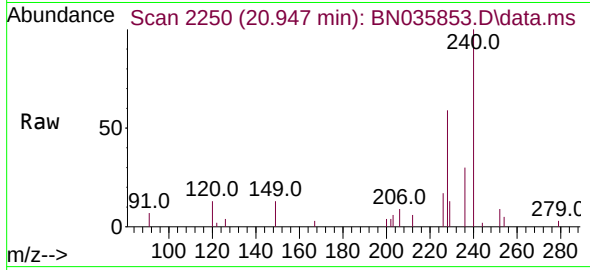
Tgt Ion:202 Resp: 9853
Ion Ratio Lower Upper
202 100
101 9.0 7.4 11.0
203 16.6 13.7 20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

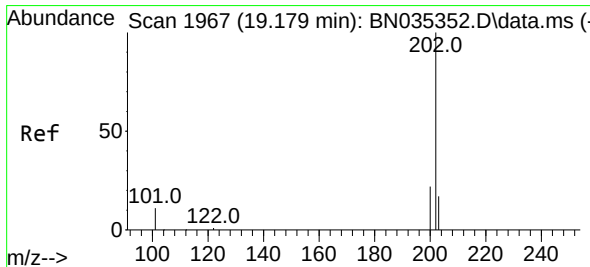
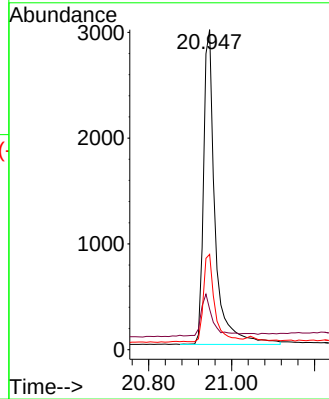
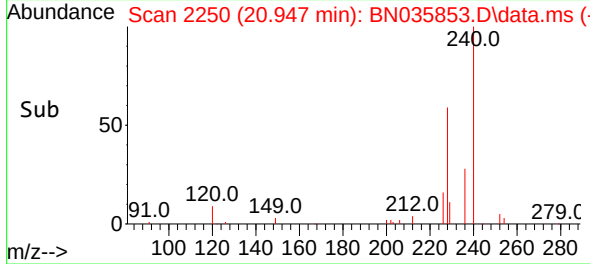
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



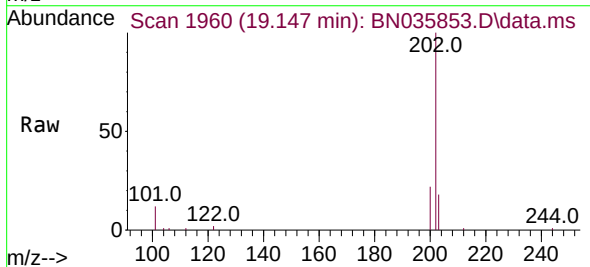
Tgt Ion:240 Resp: 574
Ion Ratio Lower Upper
240 100
120 12.7 7.9 11.9
236 29.8 22.9 34.3

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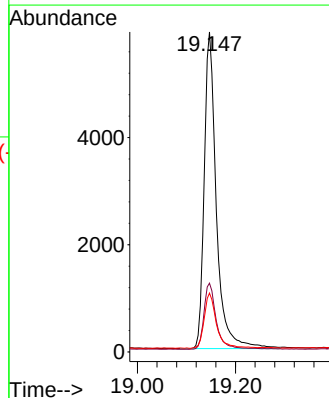
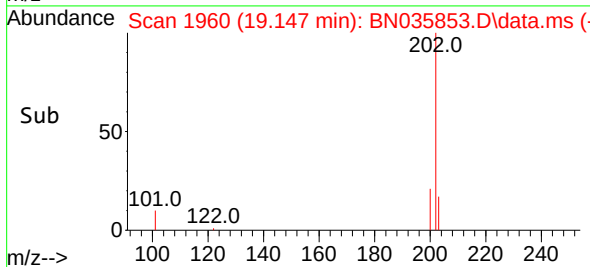
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

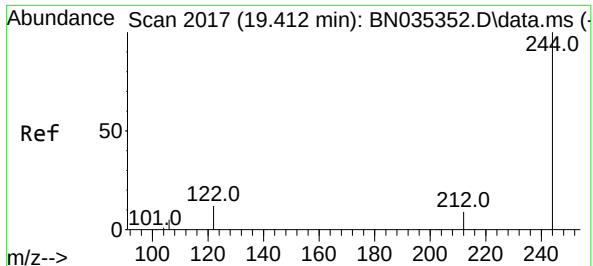


#30
Pyrene
Concen: 0.479 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54



Tgt Ion:202 Resp: 10152
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.7 14.3 21.5





#31
Terphenyl-d14
Concen: 0.511 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :

BNA_N

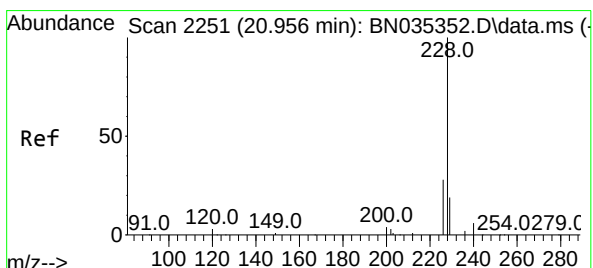
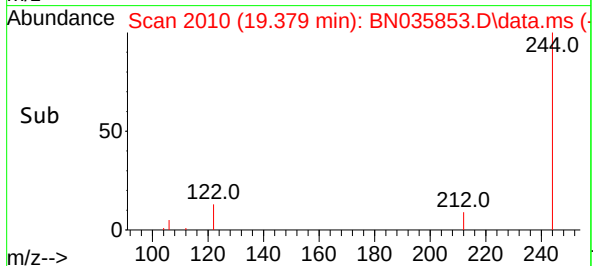
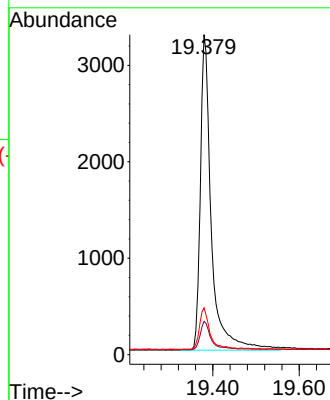
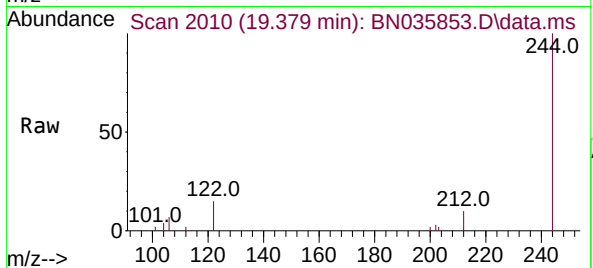
ClientSampleId :

PB165724BSD

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	14.6	10.3	15.5

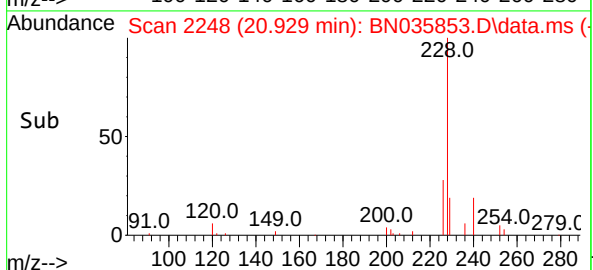
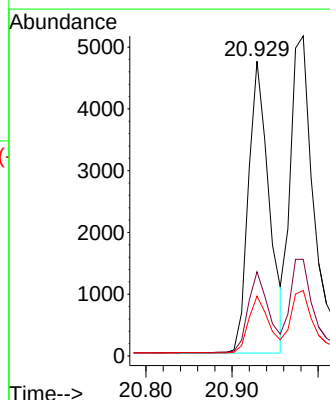
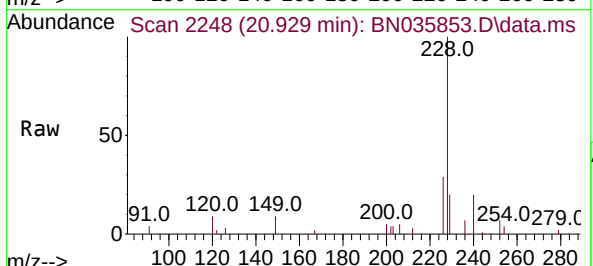
Manual Integrations
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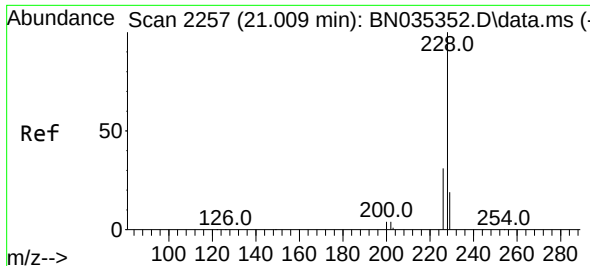
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.5	33.7
229	20.3	15.8	23.8





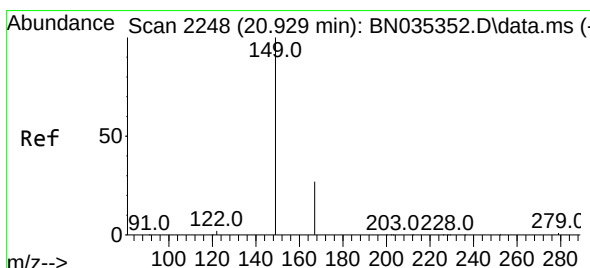
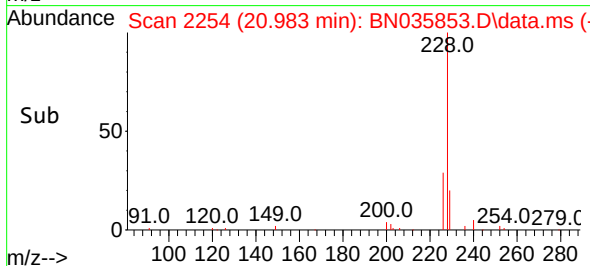
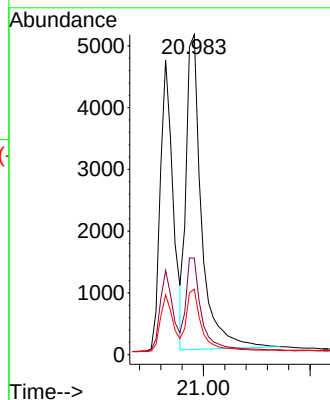
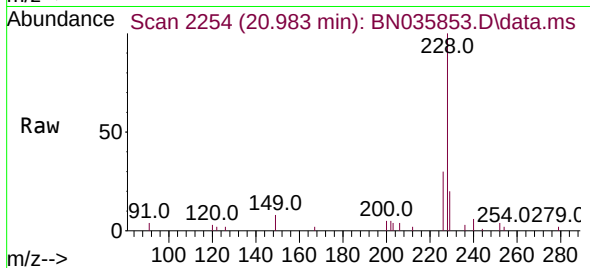
#33
Chrysene
Concen: 0.493 ng
RT: 20.983 min Scan# 2102
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	20.5	15.9	23.9

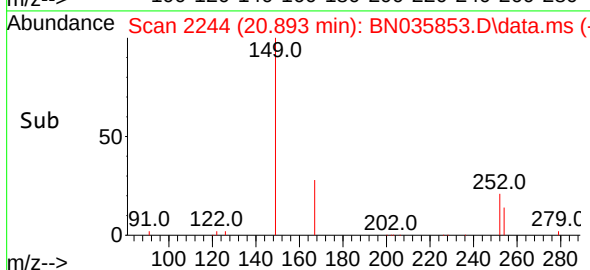
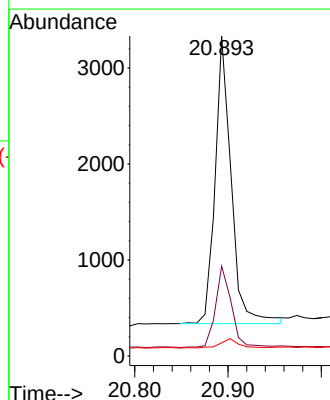
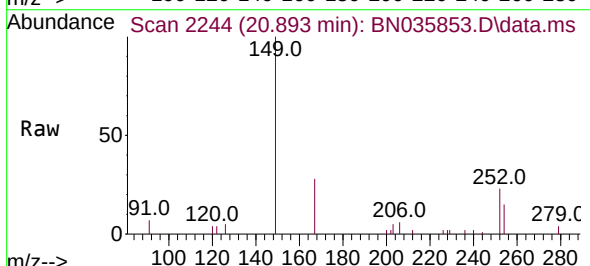
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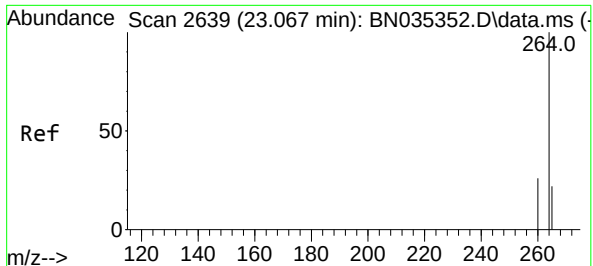
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.451 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

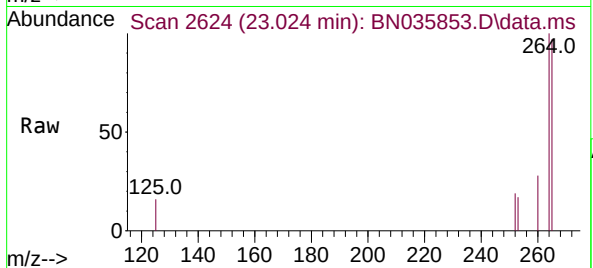
Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	3.7	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

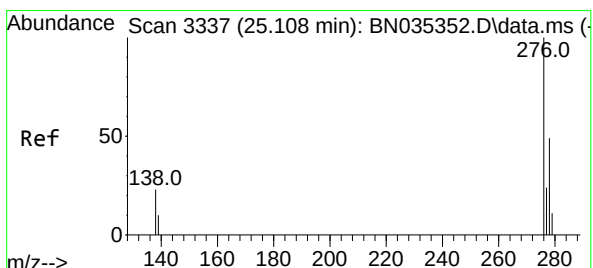
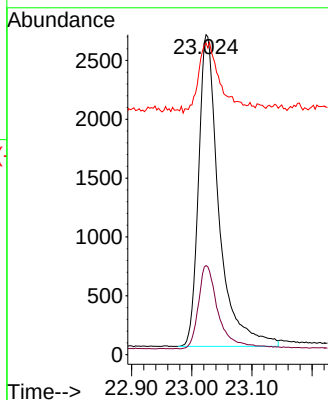
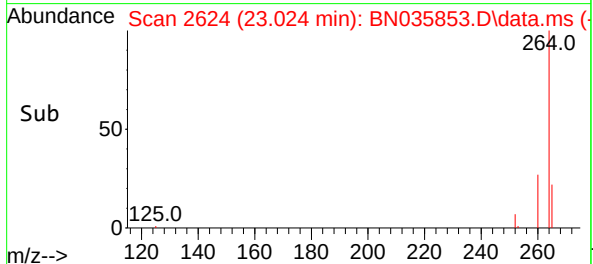
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



Tgt Ion:264 Resp: 6254
Ion Ratio Lower Upper
264 100
260 27.8 21.4 32.2
265 97.4 40.2 60.4

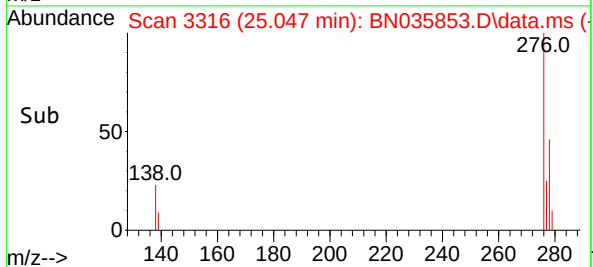
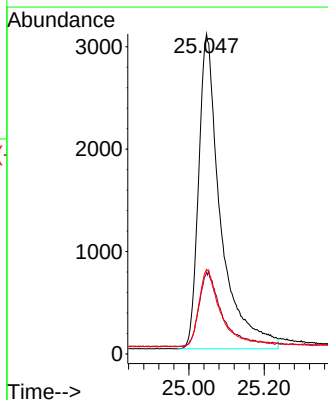
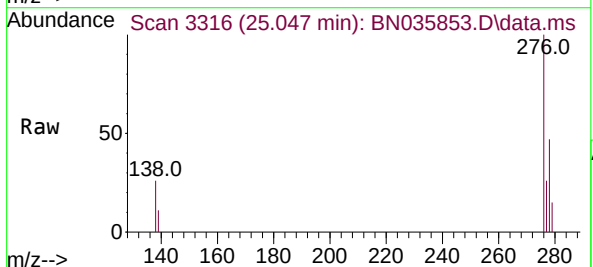
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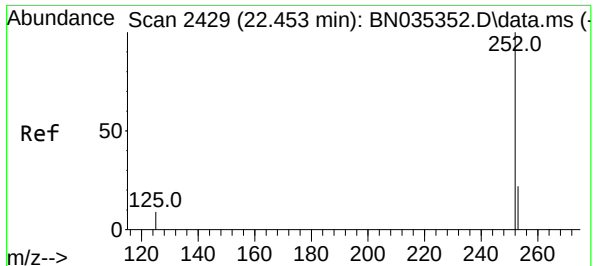
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.510 ng
RT: 25.047 min Scan# 3316
Delta R.T. -0.020 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:276 Resp: 12472
Ion Ratio Lower Upper
276 100
138 23.9 19.4 29.0
277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.584 ng

RT: 22.416 min Scan# 2416

Delta R.T. -0.015 min

Lab File: BN035853.D

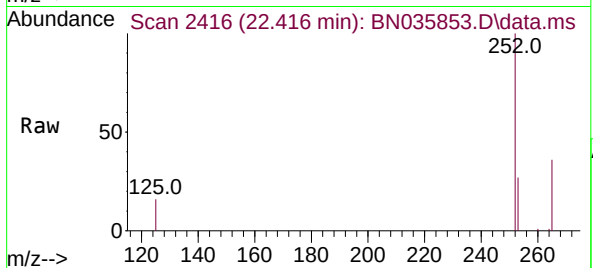
Acq: 26 Dec 2024 14:54

Instrument :

BNA_N

ClientSampleId :

PB165724BSD



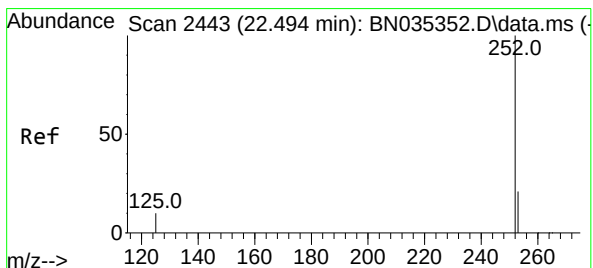
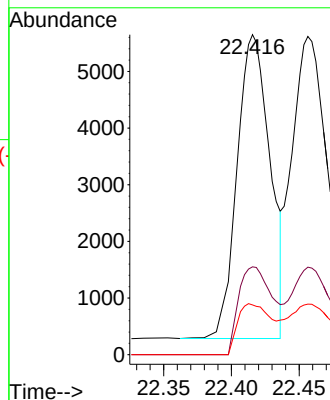
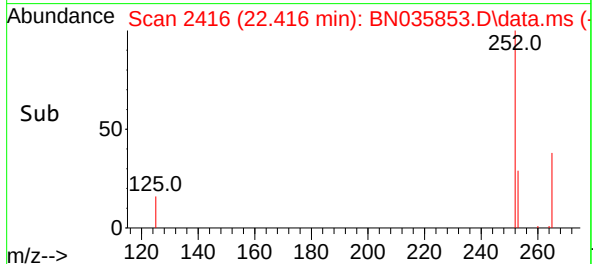
Tgt Ion:	252	Resp:	1335
Ion Ratio	Lower	Upper	
252	100		
253	27.5	19.6	29.4
125	15.6	9.6	14.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#38

Benzo(k)fluoranthene

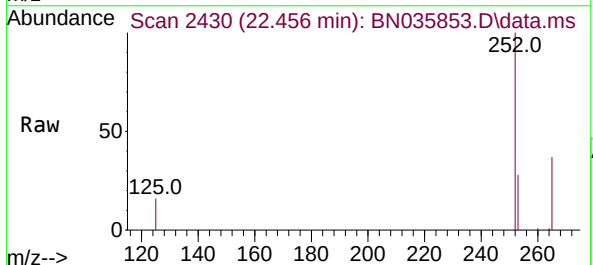
Concen: 0.473 ng

RT: 22.456 min Scan# 2430

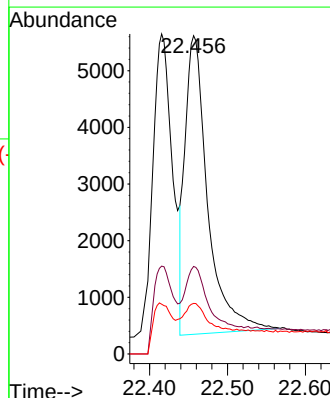
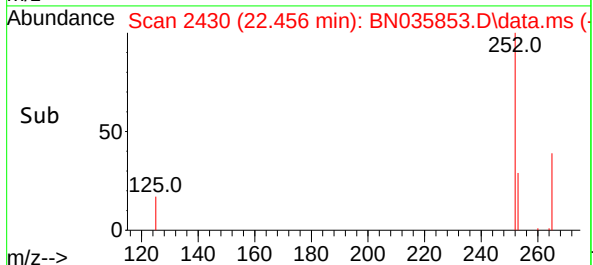
Delta R.T. -0.015 min

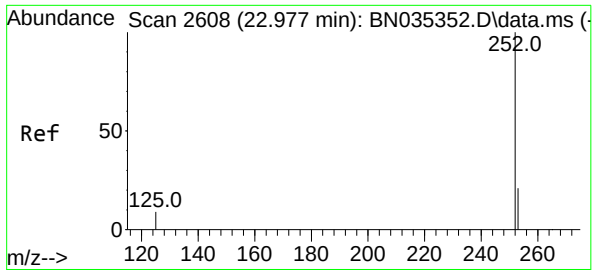
Lab File: BN035853.D

Acq: 26 Dec 2024 14:54



Tgt Ion:	252	Resp:	10641
Ion Ratio	Lower	Upper	
252	100		
253	27.5	19.5	29.3
125	15.9	10.2	15.4





#39

Benzo(a)pyrene

Concen: 0.481 ng

RT: 22.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

Instrument :

BNA_N

ClientSampleId :

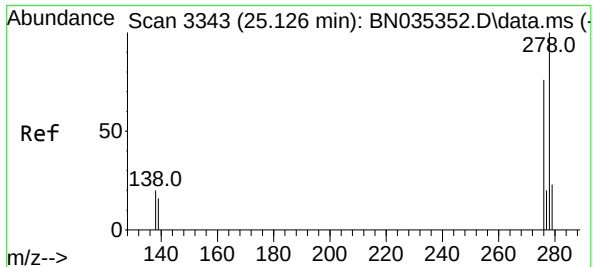
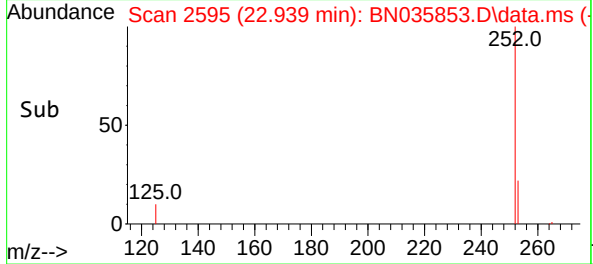
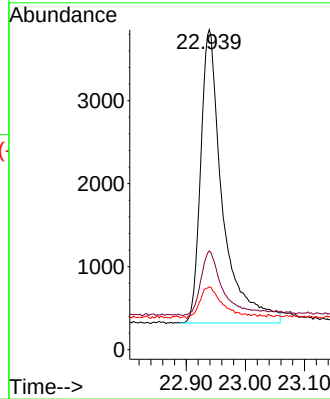
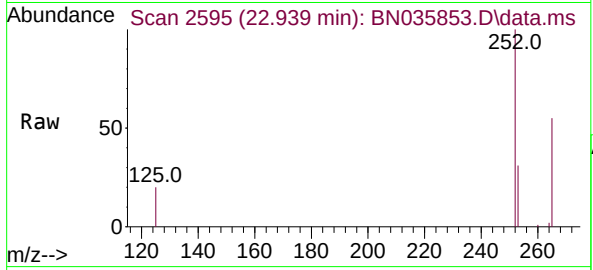
PB165724BSD

Tgt Ion:	252	Resp:	906
Ion Ratio	Lower	Upper	
252	100		
253	30.9	20.2	30.4
125	19.6	10.9	16.3

Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/30/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.483 ng

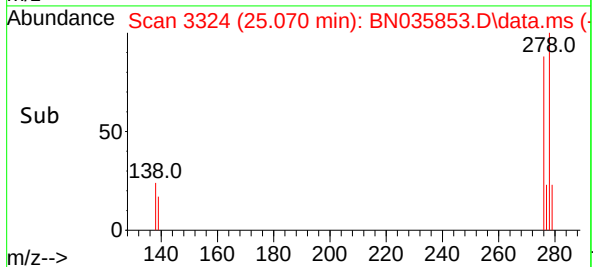
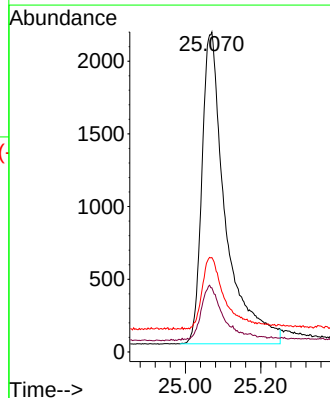
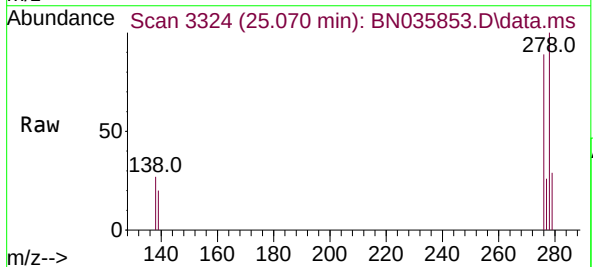
RT: 25.070 min Scan# 3324

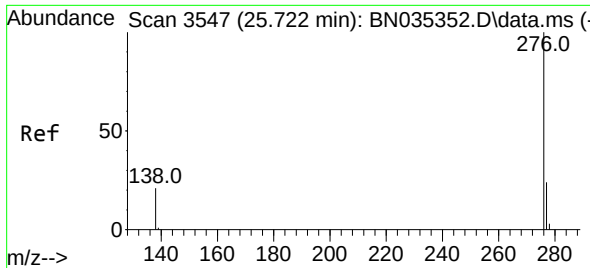
Delta R.T. -0.012 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

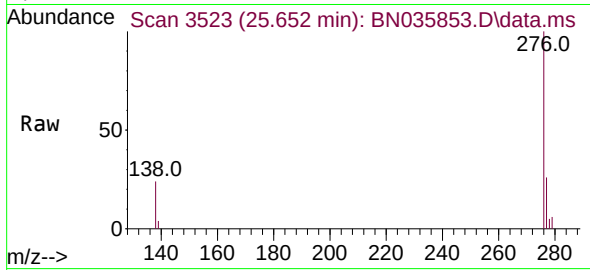
Tgt Ion:	278	Resp:	9318
Ion Ratio	Lower	Upper	
278	100		
139	20.0	14.2	21.4
279	29.5	20.5	30.7





#41
Benzo(g,h,i)perylene
Concen: 0.513 ng
RT: 25.652 min Scan# 31
Delta R.T. -0.026 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

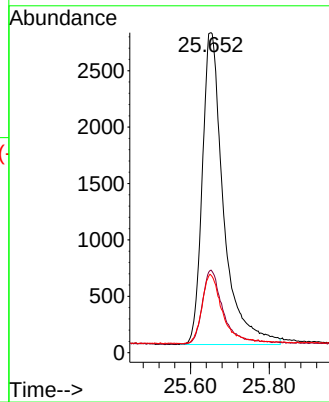
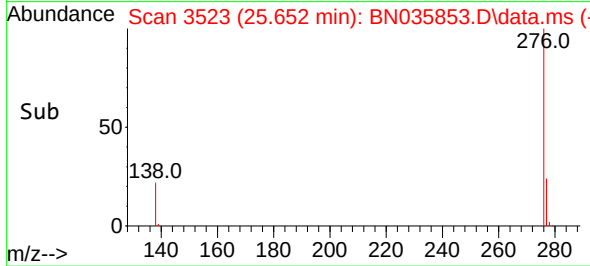
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



Tgt Ion: 276 Resp: 10352
Ion Ratio Lower Upper
276 100
277 25.8 19.9 29.9
138 24.2 17.8 26.8

Manual Integrations
APPROVED

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



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
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
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
PB165724BS	BN035764.D	Bis(2-ethylhexyl)phthalate	Jagrut	12/23/2024 10:46:14 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
PB165724BS	BN035764.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:46:14 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	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
P5314-02	BN035785.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:48 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5314-04	BN035786.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:49 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035809.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:45:00 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035811.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:18:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035811.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
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

Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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	12/30/2024 12:23:04 AM	Peak Integrated by Software
SSTDCCC0.4	BN035845.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:06 AM	mohammad	12/30/2024 12:23:04 AM	Peak Integrated by Software
PB165724BL	BN035846.D	Nitrobenzene-d5	yogesh	12/30/2024 12:20:49 AM	mohammad	12/30/2024 12:23:04 AM	Peak Integrated by Software
PB165724BSD	BN035853.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:32 AM	mohammad	12/30/2024 12:23:04 AM	Peak Integrated by Software
SSTDCCC0.4	BN035861.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:44 AM	mohammad	12/30/2024 12:23:04 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	Not Ok
58	P5376-15	BN035832.D	24 Dec 2024 22:42	RC/JU	ReRun
59	P5376-16	BN035833.D	24 Dec 2024 23:18	RC/JU	Ok,M
60	P5376-17	BN035834.D	24 Dec 2024 23:53	RC/JU	Ok,M
61	P5376-18	BN035835.D	25 Dec 2024 00:29	RC/JU	Ok,M
62	P5376-19	BN035836.D	25 Dec 2024 01:05	RC/JU	ReRun
63	P5376-20	BN035837.D	25 Dec 2024 01:40	RC/JU	Ok,M
64	P5376-01	BN035838.D	25 Dec 2024 02:16	RC/JU	ReRun
65	PB165723BS	BN035839.D	25 Dec 2024 02:51	RC/JU	Not Ok
66	PB165724BSD	BN035840.D	25 Dec 2024 03:27	RC/JU	Not Ok
67	PB165828BS	BN035841.D	25 Dec 2024 04:03	RC/JU	Not Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn112724
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

68	P5374-03	BN035842.D	25 Dec 2024 04:38	RC/JU	ReRun
69	SSTDCCC0.4	BN035843.D	25 Dec 2024 05:14	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM
Supervise By	mohammad	Supervise On	12/30/2024 12:23:04 AM
SubDirectory	BN122624	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn112724
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035844.D	26 Dec 2024 09:19	RC/JU	Ok
2	SSTDCCC0.4	BN035845.D	26 Dec 2024 09:58	RC/JU	Ok,M
3	PB165724BL	BN035846.D	26 Dec 2024 10:35	RC/JU	Ok,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	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035366.D	28 Nov 2024 02:20		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035367.D	28 Nov 2024 03:35		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51		RC/JU	Ok,M
21	PB165198BL	PB165198BL	BN035369.D	28 Nov 2024 05:27		RC/JU	Ok,M
22	PB165198BS	PB165198BS	BN035370.D	28 Nov 2024 06:03		RC/JU	Ok,M
23	PB165198BSD	PB165198BSD	BN035371.D	28 Nov 2024 06:39		RC/JU	Ok,M
24	PB165266BS	PB165266BS	BN035372.D	28 Nov 2024 07:15		RC/JU	Ok,M
25	PB165266BSD	PB165266BSD	BN035373.D	28 Nov 2024 07:50		RC/JU	Ok,M
26	P4959-01	RW5-SP100-20241121	BN035374.D	28 Nov 2024 08:26		RC/JU	Ok,M
27	SSTDCCC0.4	SSTDCCC0.4EC	BN035375.D	28 Nov 2024 09:02		RC/JU	Ok,M

M : Manual Integration

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	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035792.D	23 Dec 2024 19:51		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035793.D	23 Dec 2024 20:26		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035794.D	23 Dec 2024 22:16		RC/JU	Ok,M
21	PB165667BL	PB165667BL	BN035795.D	23 Dec 2024 22:52		RC/JU	Ok,M
22	P5281-03	BPOW1-8-20241212	BN035796.D	23 Dec 2024 23:27		RC/JU	Ok,M
23	P5281-05	RE117D1-20241213	BN035797.D	24 Dec 2024 00:03		RC/JU	Ok,M
24	P5281-06	RE115D1-20241213	BN035798.D	24 Dec 2024 00:38	Need 2X Dilution	RC/JU	Dilution
25	P5281-07	TT189D2-20241213	BN035799.D	24 Dec 2024 01:14	Need 2X Dilution	RC/JU	Dilution
26	P5281-08	FB02-20241213	BN035800.D	24 Dec 2024 01:49		RC/JU	Ok,M
27	P5282-01	RW7-SP100-20241212	BN035801.D	24 Dec 2024 02:25	Need 2X Dilution	RC/JU	Dilution
28	P5282-02	RW7-SP201-20241212	BN035802.D	24 Dec 2024 03:00		RC/JU	Ok,M
29	P5282-03	RW7-SP302-20241212	BN035803.D	24 Dec 2024 03:36		RC/JU	Ok,M
30	P5282-04	RW7-SP303-20241212	BN035804.D	24 Dec 2024 04:12		RC/JU	Ok,M
31	P5284-01	RW5-SP100-20241212	BN035805.D	24 Dec 2024 04:47	Need 5X Dilution	RC/JU	Dilution
32	P5317-07	RW8-MW01S-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	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

37	SSTDCCC0.4	SSTDCCC0.4	BN035811.D	24 Dec 2024 08:59		RC/JU	Ok,M
38	PB165828BL	PB165828BL	BN035812.D	24 Dec 2024 09:35		RC/JU	Ok,M
39	P5281-04DL	TT101D2-20241212DL	BN035813.D	24 Dec 2024 10:10		RC/JU	Ok,M
40	P5261-19DL	RE120D3-20241210DL	BN035814.D	24 Dec 2024 10:46	Not Match Dilution	RC/JU	Not Ok
41	P5376-02	TT150S1-20241218	BN035815.D	24 Dec 2024 11:21		RC/JU	Ok,M
42	P5376-03	RE115D2-20241218	BN035816.D	24 Dec 2024 11:57	Need 5X Dilution	RC/JU	Dilution
43	P5376-04	TT149S1-20241218	BN035817.D	24 Dec 2024 12:33		RC/JU	Ok,M
44	P5376-05	DUP-07-20241218	BN035818.D	24 Dec 2024 13:08		RC/JU	Ok,M
45	P5376-06	TT174I1-20241218	BN035819.D	24 Dec 2024 13:44		RC/JU	Ok,M
46	P5376-07	RW10-MW01S-202412	BN035820.D	24 Dec 2024 14:19		RC/JU	Ok,M
47	P5376-08MS	RW10-MW01S-202412	BN035821.D	24 Dec 2024 14:55		RC/JU	Ok,M
48	P5376-09MSD	RW10-MW01S-202412	BN035822.D	24 Dec 2024 15:31		RC/JU	Ok,M
49	P5376-10	RW10-MW01D-202412	BN035823.D	24 Dec 2024 16:06		RC/JU	Ok,M
50	P5376-11	RW10A-MW01S-20241	BN035824.D	24 Dec 2024 16:42		RC/JU	Ok,M
51	P5376-12	RW10A-MW01I-202412	BN035825.D	24 Dec 2024 17:18		RC/JU	Ok,M
52	P5376-13	RE117D2-20241218	BN035826.D	24 Dec 2024 17:53		RC/JU	Ok,M
53	P5376-14	TT161S1-20241219	BN035827.D	24 Dec 2024 18:29		RC/JU	Ok,M
54	SSTDCCC0.4	SSTDCCC0.4EC	BN035828.D	24 Dec 2024 19:05		RC/JU	Ok,M
55	DFTPP	DFTPP	BN035829.D	24 Dec 2024 19:41		RC/JU	Ok

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	

56	SSTDCCC0.4	SSTDCCC0.4	BN035830.D	24 Dec 2024 20:55		RC/JU	Ok,M
57	PB165596BL	PB165596BL	BN035831.D	24 Dec 2024 22:07		RC/JU	Not Ok
58	P5376-15	TT162S1-20241219	BN035832.D	24 Dec 2024 22:42	CCC Fail high for Com#2	RC/JU	ReRun
59	P5376-16	RW11-MW01S-202412	BN035833.D	24 Dec 2024 23:18		RC/JU	Ok,M
60	P5376-17	RW11-MW01I-2024121	BN035834.D	24 Dec 2024 23:53		RC/JU	Ok,M
61	P5376-18	TT119S1-20241219	BN035835.D	25 Dec 2024 00:29		RC/JU	Ok,M
62	P5376-19	TT188S1-20241219	BN035836.D	25 Dec 2024 01:05	CCC Fail high for Com#2	RC/JU	ReRun
63	P5376-20	FB03-20241219	BN035837.D	25 Dec 2024 01:40		RC/JU	Ok,M
64	P5376-01	TT205S1-20241218	BN035838.D	25 Dec 2024 02:16	CCC Fail high for Com#2	RC/JU	ReRun
65	PB165723BS	PB165723BS	BN035839.D	25 Dec 2024 02:51	CCC Fail high for Com#2	RC/JU	Not Ok
66	PB165724BSD	PB165724BSD	BN035840.D	25 Dec 2024 03:27	CCC Fail high for Com#2	RC/JU	Not Ok
67	PB165828BS	PB165828BS	BN035841.D	25 Dec 2024 04:03	CCC Fail high for Com#2	RC/JU	Not Ok
68	P5374-03	BP-VPB-190A-GW-718	BN035842.D	25 Dec 2024 04:38	CCC Fail high for Com#2	RC/JU	ReRun
69	SSTDCCC0.4	SSTDCCC0.4EC	BN035843.D	25 Dec 2024 05:14		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM
Supervise By	mohammad	Supervise On	12/30/2024 12:23:04 AM
SubDirectory	BN122624	HP Acquire Method	BNA_N, 8270_HP Processing Method bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035844.D	26 Dec 2024 09:19		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035845.D	26 Dec 2024 09:58		RC/JU	Ok,M
3	PB165724BL	PB165724BL	BN035846.D	26 Dec 2024 10:35		RC/JU	Ok,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	12/30/2024 12:23:04 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

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SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Welgh By: N/A **Extraction By:** RS

Balance check: N/A **Filter By:** RS

Balance ID: N/A **pH Meter ID:** N/A

pH Strlp Lot#: E3574 **Hood ID:** 4,5,6,7

Extraction Method: ☒ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 12/18/2024

Extraction Start Time : 12:50

Extraction End Date : 12/18/2024

Extraction End Time : 17:45

Concentration By: EH

Supervisor By : rajesh

Standarded 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
12/18/24	RP (Ext. Lab)	Rckvnc
17:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 12/18/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165724BL	SBLK724	SVOC-SIMGrou p1	1000	6	Rubina	rajesh	1			9
PB165724BS	SLCS724	SVOC-SIMGrou p1	1000	6	Rubina	rajesh	1			SEP-01
PB165724BS D	SLCSD724	SVOC-SIMGrou p1	1000	6	Rubina	rajesh	1			2
P5314-02	BP-VPB-190A-GW-678-68 0	SVOC-SIMGrou p1	800	6	Rubina	rajesh	1	C		3
P5314-04	VPB190A-HYD-20241217	SVOC-SIMGrou p1	940	6	Rubina	rajesh	1	C		4
P5317-21	RE132D6-20241217	SVOC-SIMGrou p1	980	6	Rubina	rajesh	1	C		5
P5317-22	RE132D7-20241217	SVOC-SIMGrou p1	990	6	Rubina	rajesh	1	C		6
P5317-24	RW8-MW01D2-20241217	SVOC-SIMGrou p1	990	6	Rubina	rajesh	1	C		7
P5317-25	RW8-MW01D3-20241217	SVOC-SIMGrou p1	990	6	Rubina	rajesh	1	C		8

* Extracts relinquished on the same date as received.

[Signature]
12/18/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5317 WorkList ID : 186436 Department : Extraction Date : 12-18-2024 11:49:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5314-02	BP-VPB-190A-GW-678-680	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/13/2024	8270-Modified
P5314-04	VPB190A-HYD-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/17/2024	8270-Modified
P5317-21	RE132D6-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L41	12/17/2024	8270-Modified
P5317-22	RE132D7-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L41	12/17/2024	8270-Modified
P5317-24	RW8-MW01D2-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L41	12/17/2024	8270-Modified
P5317-25	RW8-MW01D3-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L41	12/17/2024	8270-Modified

Date/Time 12/18/24 12:05
 Raw Sample Received by: Ps (Cek 104)
 Raw Sample Relinquished by: Ps (Cek 104)

Date/Time 12/18/24 13:10
 Raw Sample Received by: Ps (Cek 104)
 Raw Sample Relinquished by: Ps (Cek 104)

Prep Standard - Chemical Standard Summary

Order ID : P5314
Test : SVOC-SIMGroup1
Prepbatch ID : PB165724,
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,

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>
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

FROM 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

FROM 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 DFTTP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
								07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6616	09/06/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed
								09/11/2024

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
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								

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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, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG
511096
to
511099
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

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.

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL Gravimetric +/- 45.8508 µg/mL Unstressed +/- 66.2023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL Gravimetric +/- 45.9318 µg/mL Unstressed +/- 66.3193 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL Gravimetric +/- 45.8954 µg/mL Unstressed +/- 66.2667 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

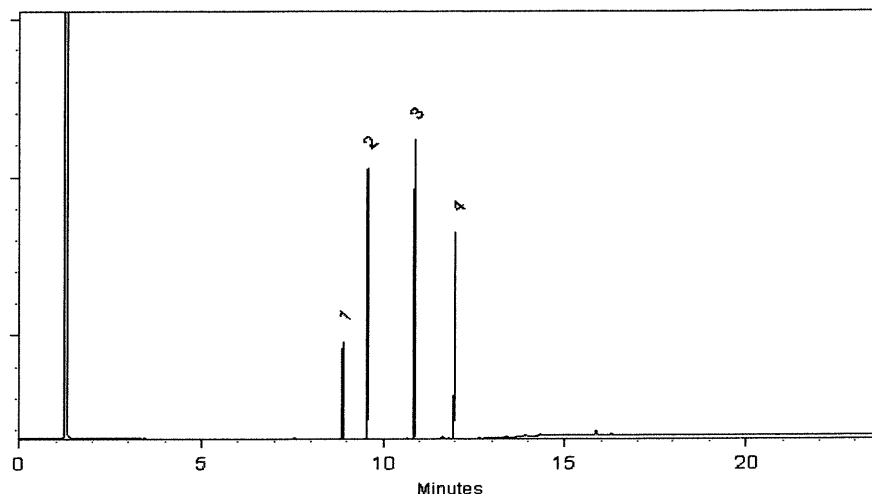
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

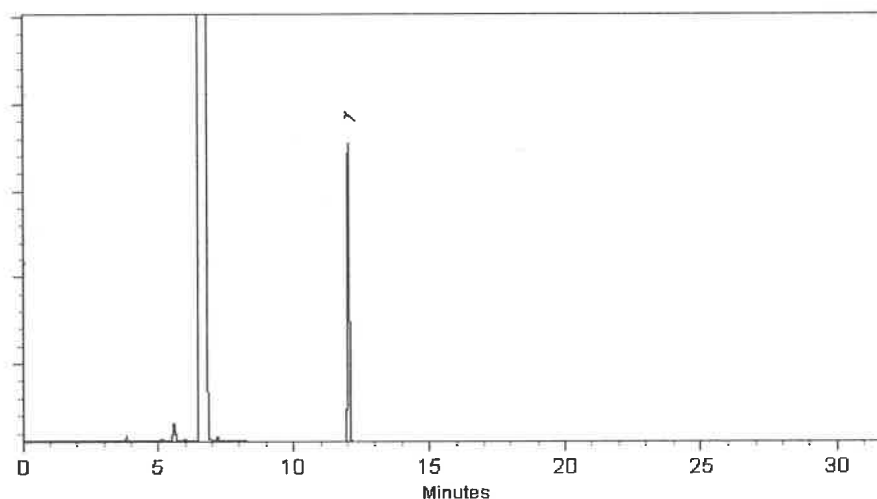
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0193449
Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2026 **Storage:** 10°C or colder
Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



**PRODUCTOS
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.

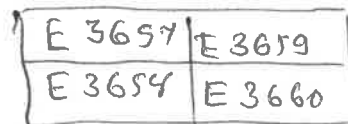
This document has been electronically produced and is valid without a signature.

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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

J. Croak
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

Page 1 of 1

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)

Avantor™

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	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ 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: 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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 10/9/24

E 3818

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



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

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

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



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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.



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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

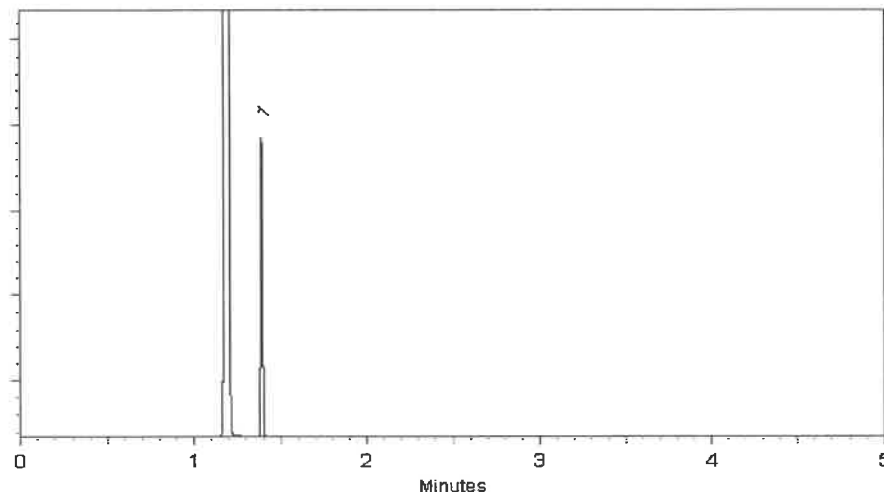
FID

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.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

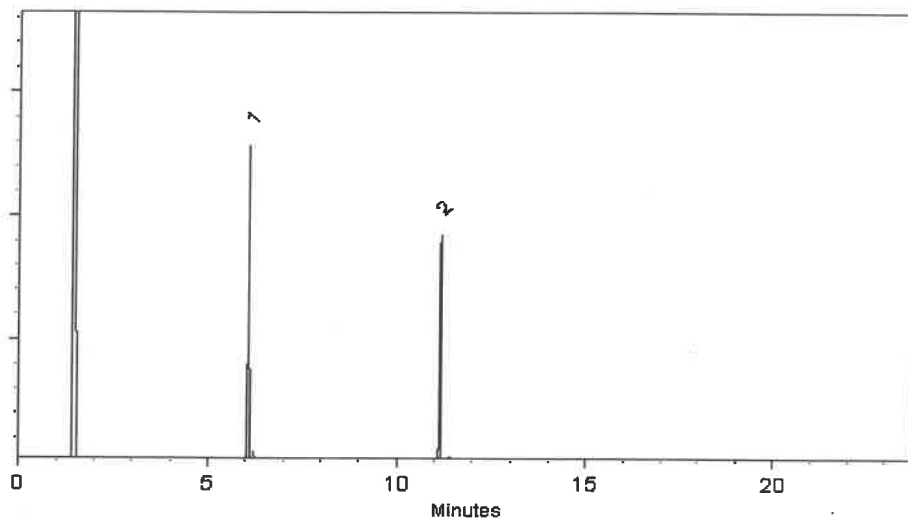
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

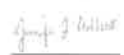


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

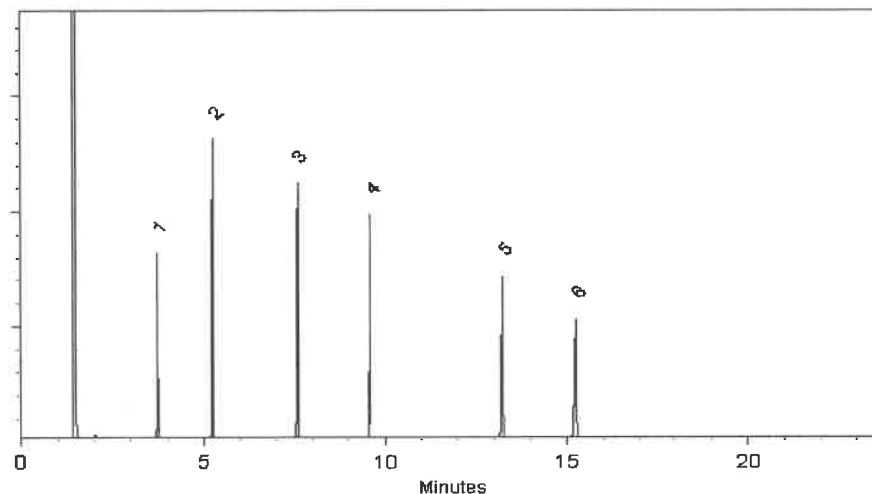
FID

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



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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

S12075 } RC
↓
S12079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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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

S12075 } RC
↓
S12079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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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/
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912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
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%

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110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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
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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	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
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%

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

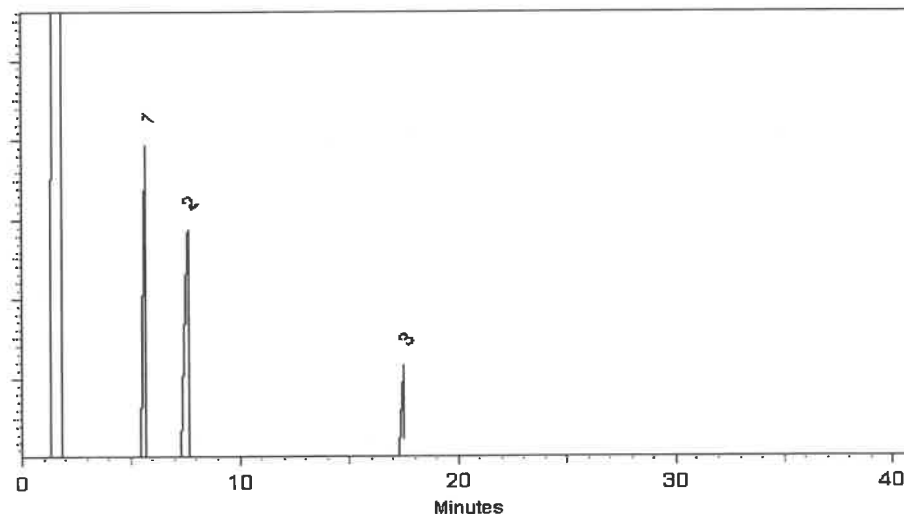
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. 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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

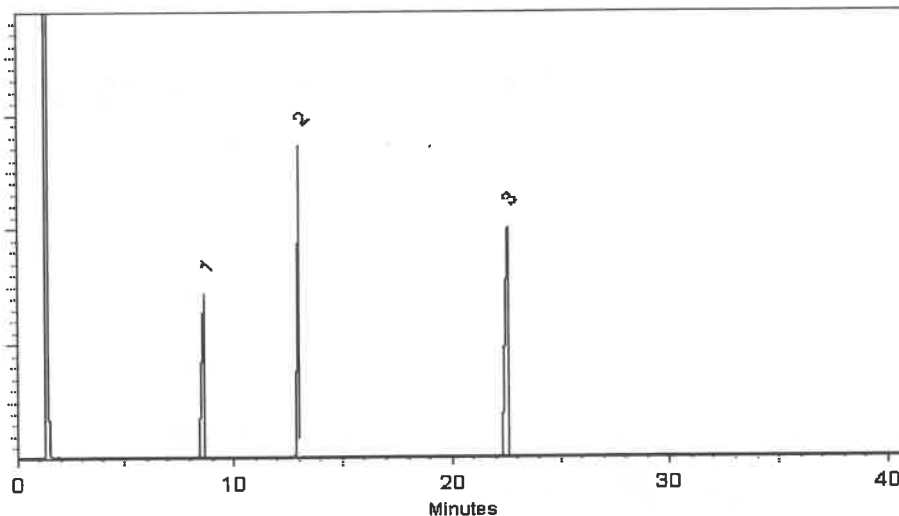
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

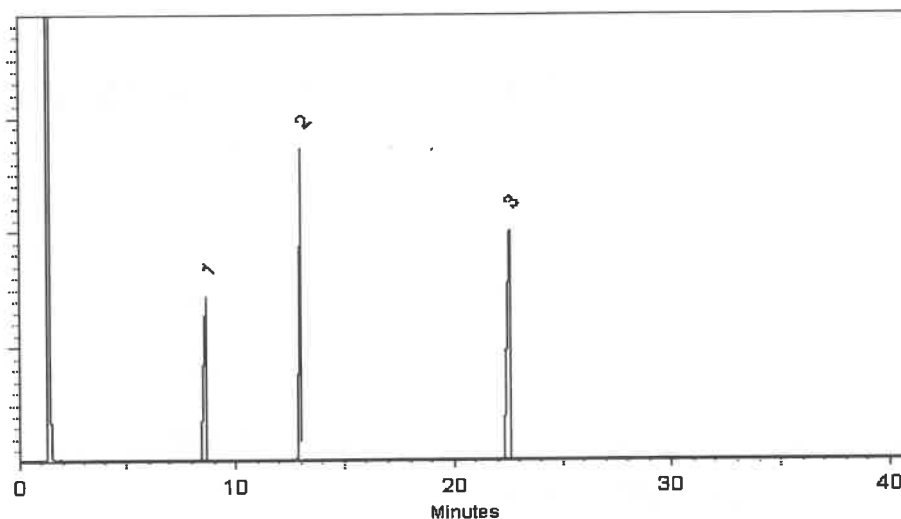
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

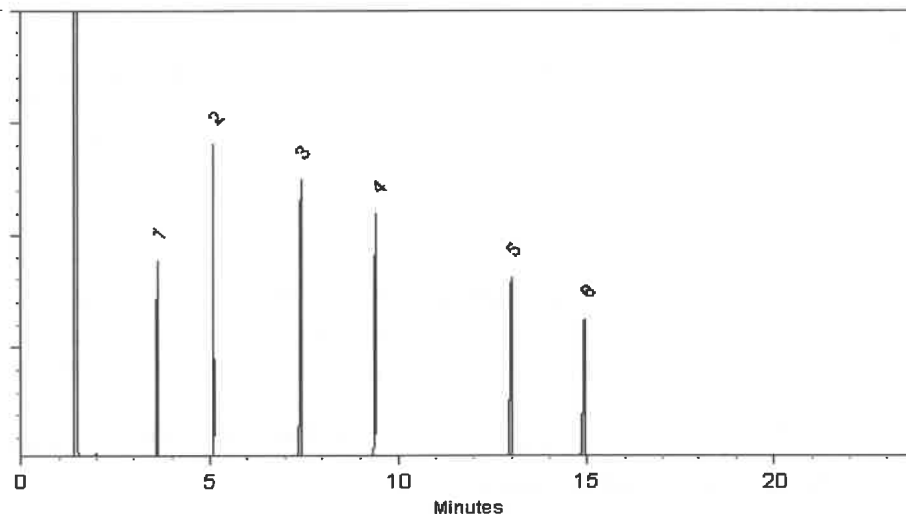
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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:

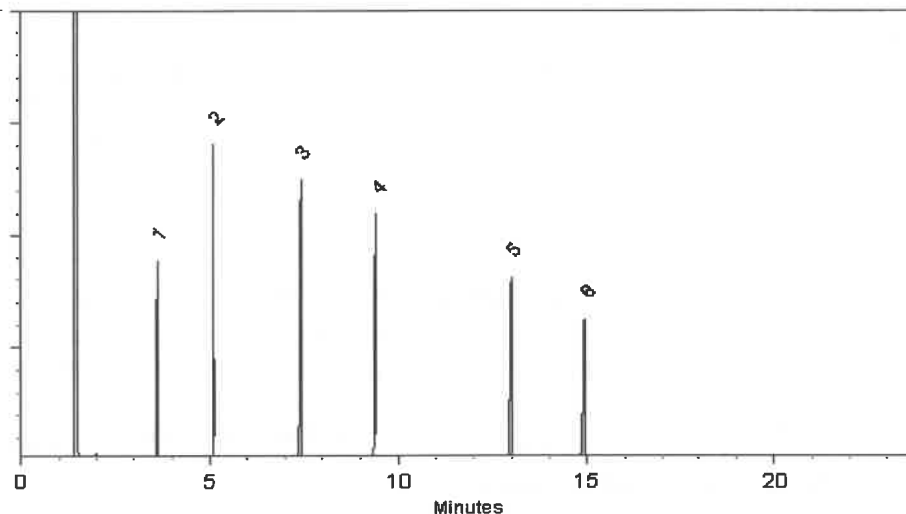
FID

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
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Certificate #FM 80397



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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/
↓ 7/24/24
S12508 }

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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

- 1
- 2
- 3
- 4
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- 18

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

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5314 TETR06

Order Date : 12/17/2024 3:43:00 PM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 12/17/2024 12:00:00 AM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5314-01	BP-VPB-190A-TB-20241213	Water	12/13/2024	08:00	VOCMS Group1		8260-Low	~~40~~ Bus. Days	2 days
P5314-02	BP-VPB-190A-GW-678-680	Water	12/13/2024	11:00	VOCMS Group1		8260-Low	~~10~~ Bus. Days	
P5314-03	BP-VPB-190A-GW-698-700	Water	12/13/2024	13:20	VOCMS Group1		8260-Low	~~10~~ Bus. Days	
P5314-04	VPB190A-HYF-20241217	Water	12/17/2024	10:00	VOCMS Group1		8260-Low	~~40~~ Bus. Days	
	VPB190A-HYD-20241217				VOCMS Group1		8260-Low	~~40~~ Bus. Days	

Relinquished By : cl

Date / Time : 12-18-24 1045

Received By : [Signature]

Date / Time : 12-18-24 1045

Storage Area : VOA Refridgerator Room

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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

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

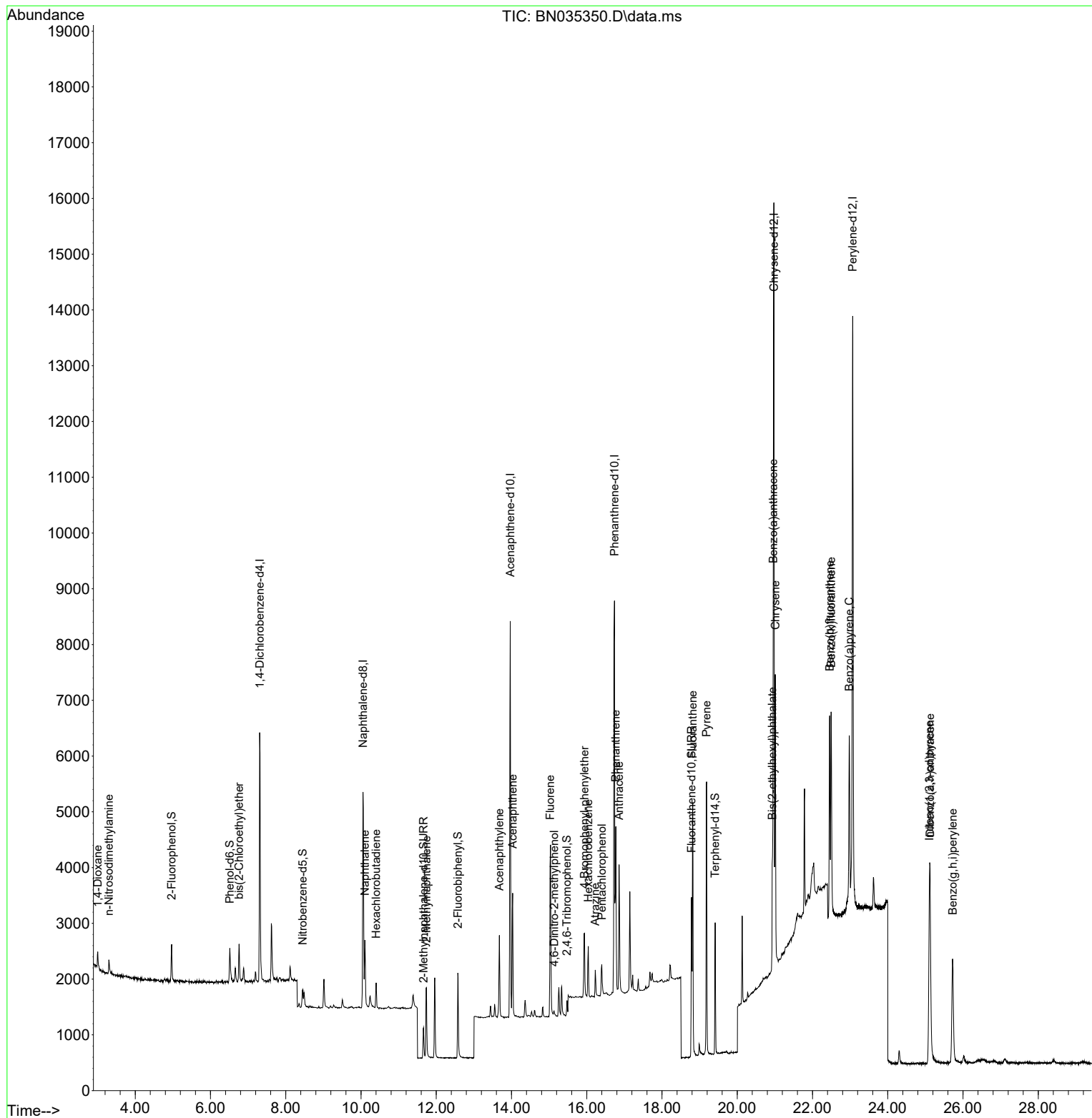
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng	0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng	0.00
35) Perylene-d12	23.067	264	13004	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	573	0.101	ng	0.00
5) Phenol-d6	6.513	99	686	0.096	ng	0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng	0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng	0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.003	88	227	0.112	ng	# 87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	# 90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng	98
9) Naphthalene	10.105	128	1527	0.102	ng	# 91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	# 97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng	96
16) Acenaphthylene	13.679	152	1675	0.096	ng	100
17) Acenaphthene	14.031	154	1143	0.100	ng	99
18) Fluorene	15.026	166	1620	0.096	ng	98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	# 29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	# 94
22) Hexachlorobenzene	16.041	284	720	0.100	ng	97
23) Atrazine	16.227	200	421	0.068	ng	# 86
24) Pentachlorophenol	16.401	266	381	0.114	ng	90
25) Phenanthrene	16.773	178	2963	0.104	ng	99
26) Anthracene	16.860	178	2617	0.100	ng	98
28) Fluoranthene	18.817	202	4173	0.106	ng	99
30) Pyrene	19.184	202	4461	0.119	ng	100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng	99
33) Chrysene	21.010	228	4123	0.106	ng	97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng	99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng	97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	# 82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	# 80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	# 69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	# 86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	# 93

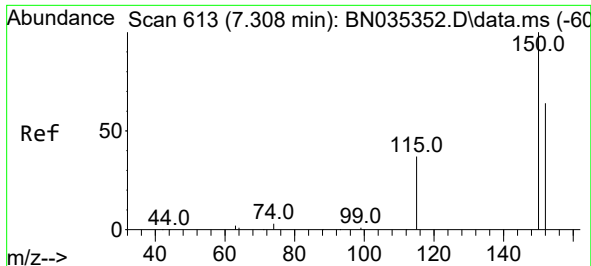
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

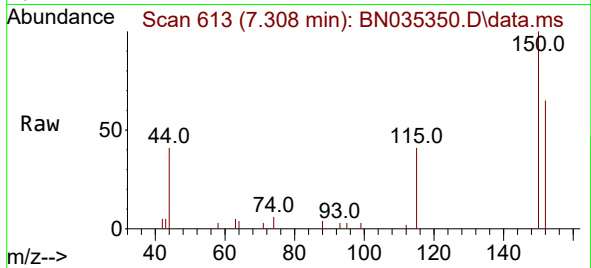
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



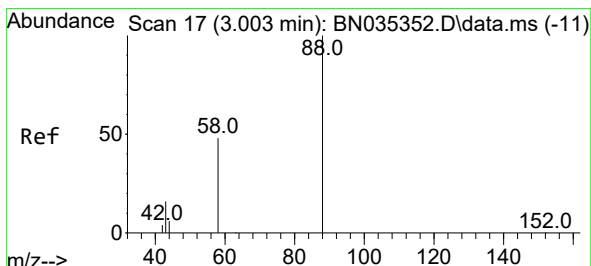
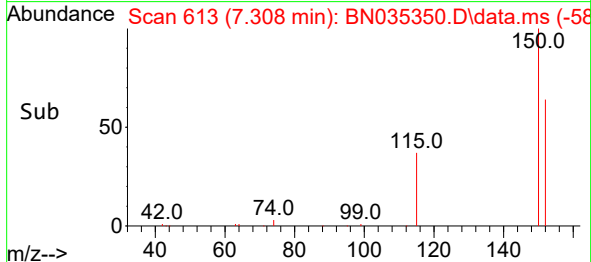
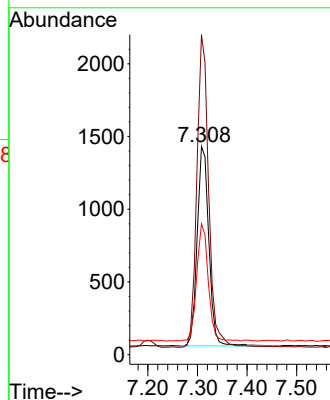


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

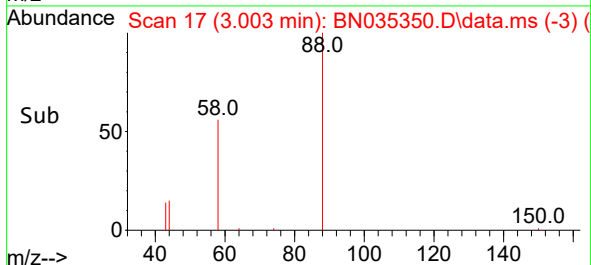
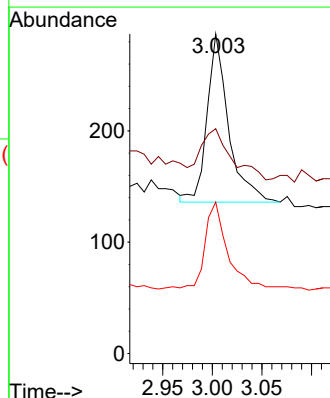
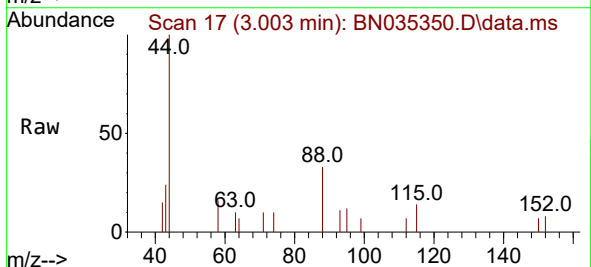


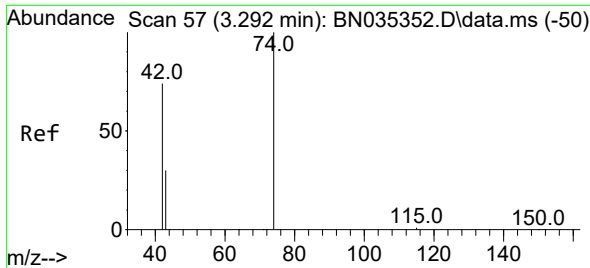
Tgt Ion:152 Resp: 2237
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4



#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

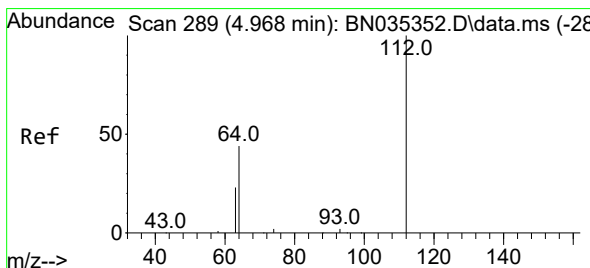
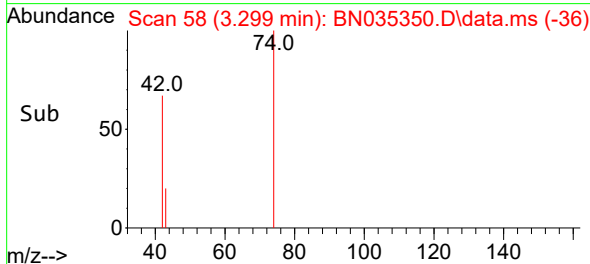
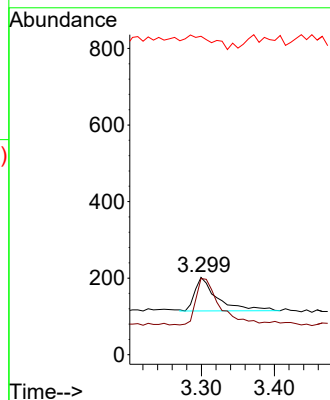
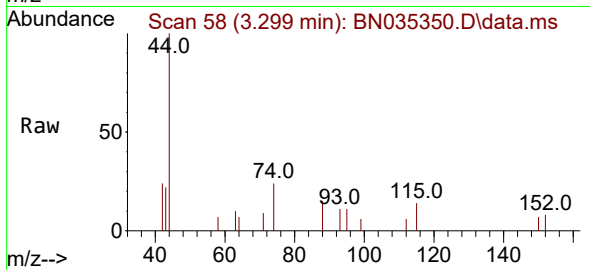




#3
 n-Nitrosodimethylamine
 Concen: 0.099 ng
 RT: 3.299 min Scan# 51
 Delta R.T. 0.007 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

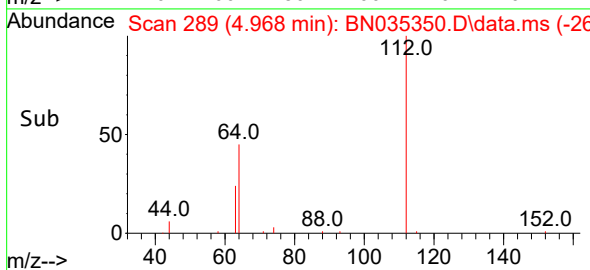
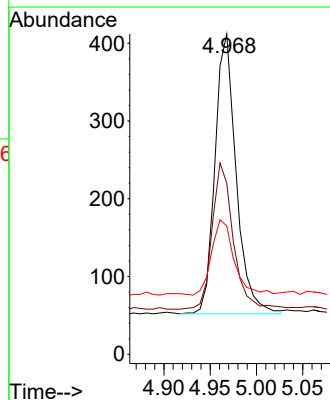
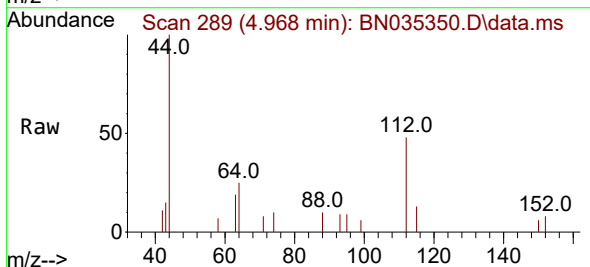
Instrument :
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 ClientSampleId :
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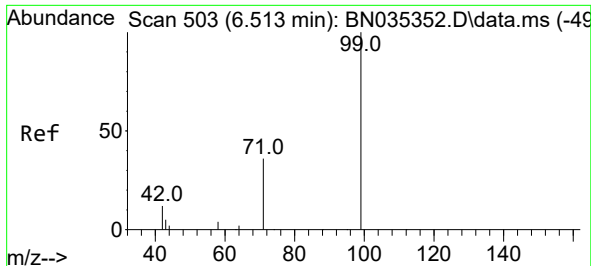
Tgt Ion: 42 Resp: 187
 Ion Ratio Lower Upper
 42 100
 74 146.5 124.9 187.3
 44 51.9 2.2 3.4#



#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

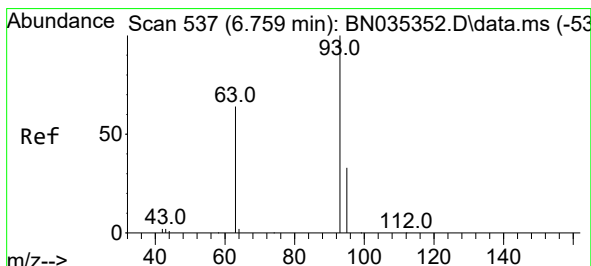
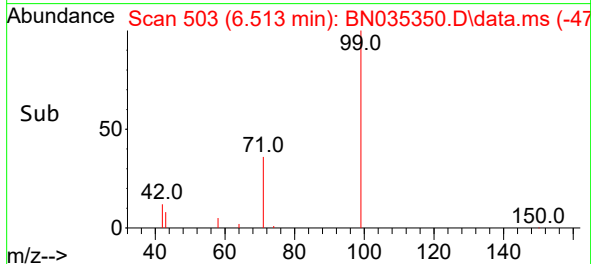
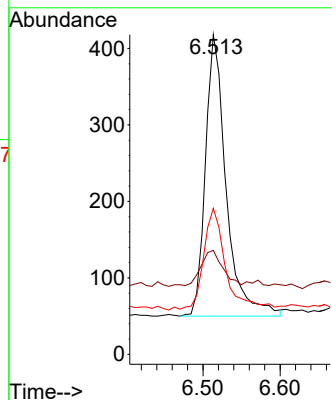
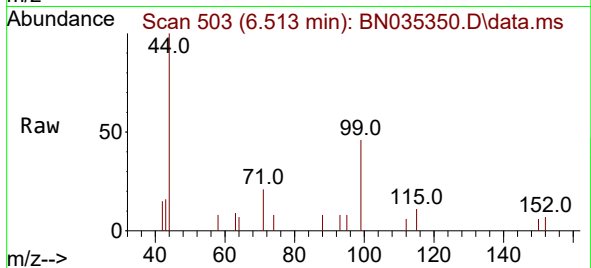




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

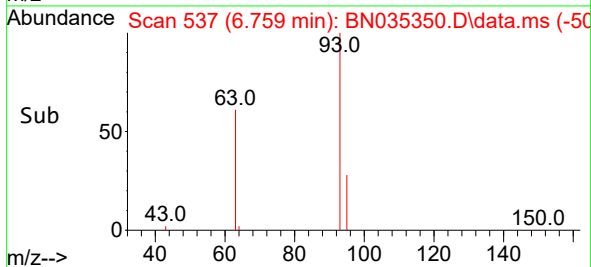
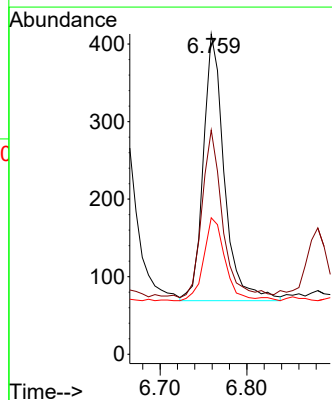
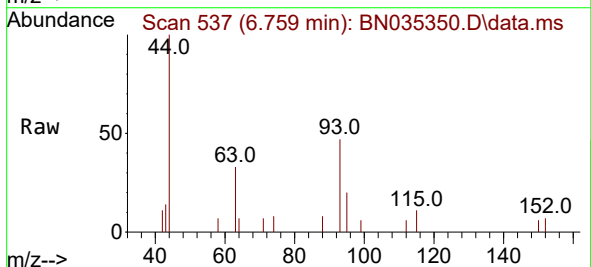
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

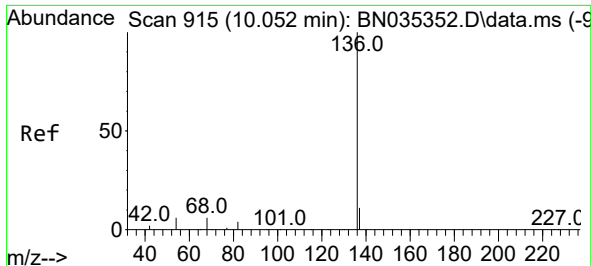
Tgt Ion:	99	Resp:	686
Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9



#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

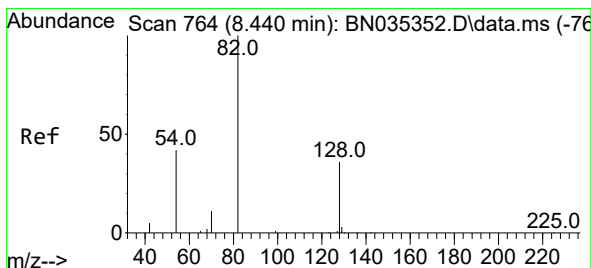
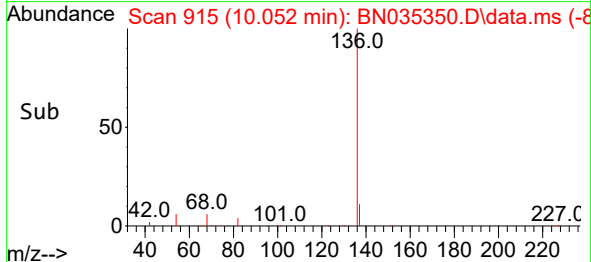
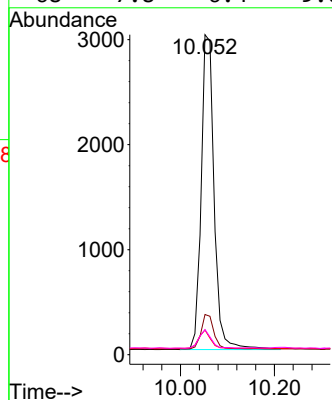
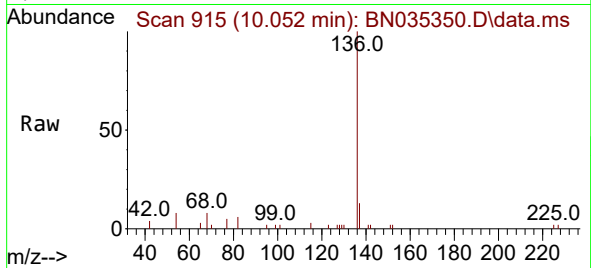




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

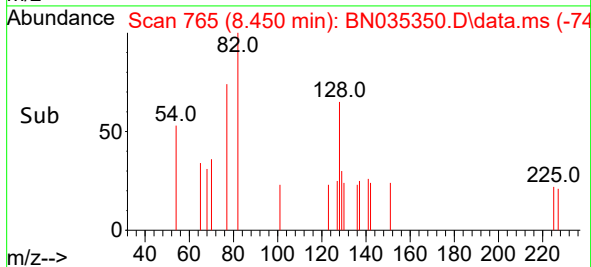
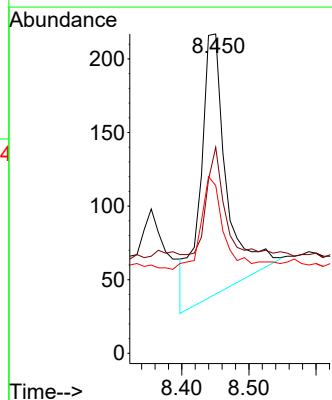
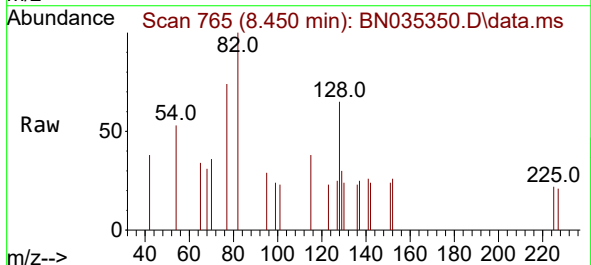
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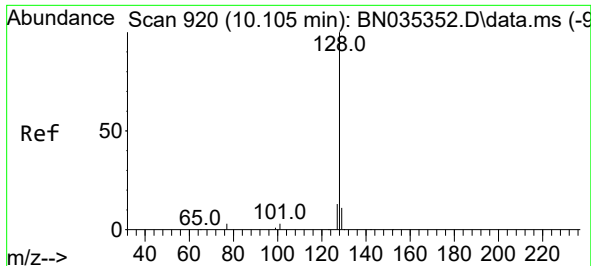
Tgt Ion:	136	Resp:	5753
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



#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

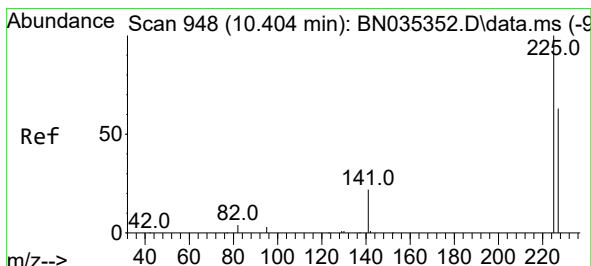
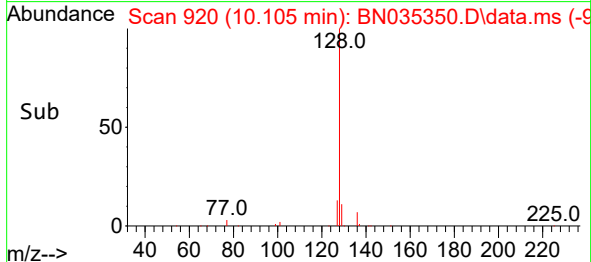
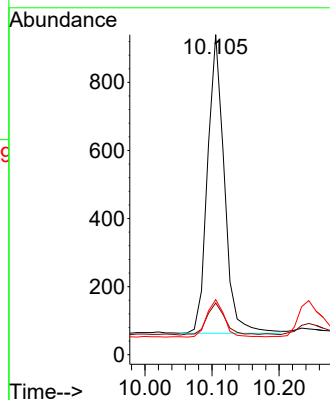
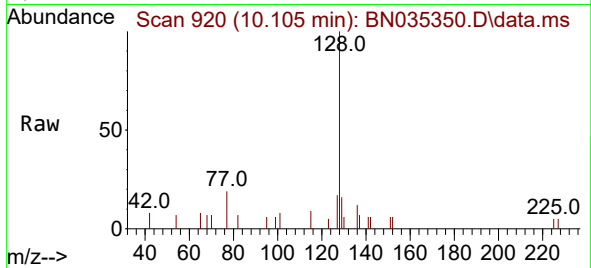




#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

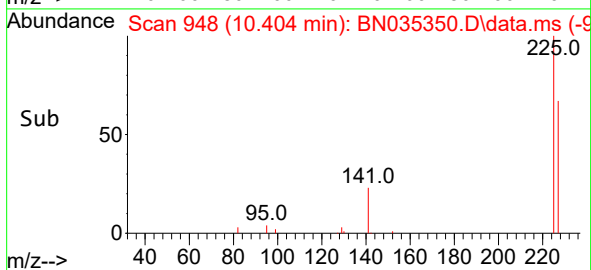
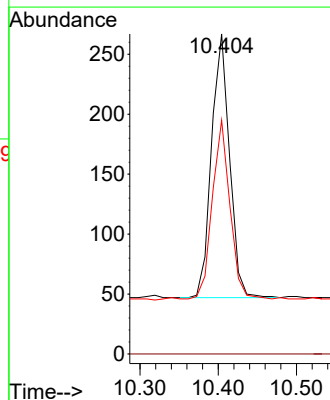
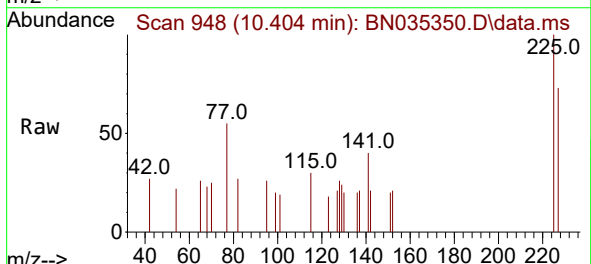
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ClientSampleId :
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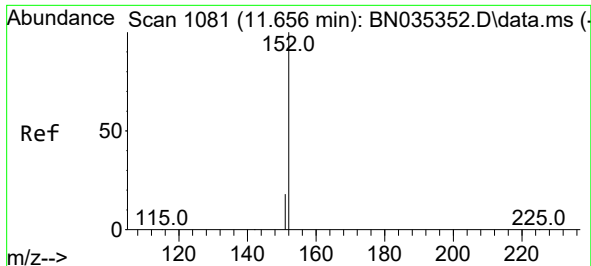
Tgt Ion:128 Resp: 1527
Ion Ratio Lower Upper
128 100
129 16.2 9.8 14.6#
127 17.2 11.4 17.2#



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

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

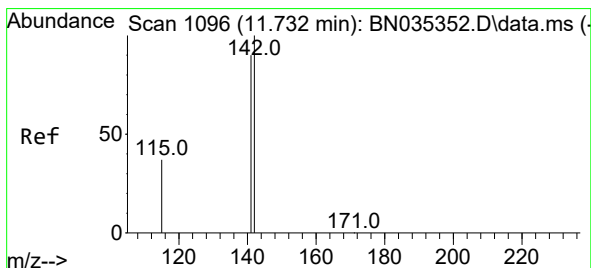
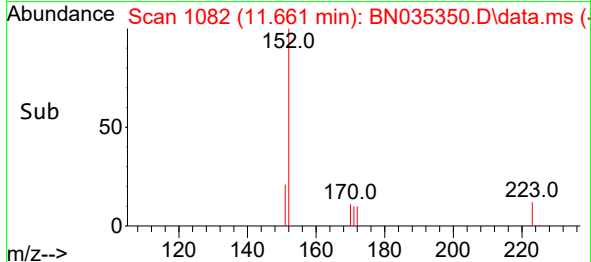
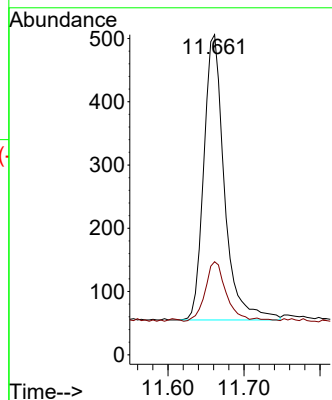
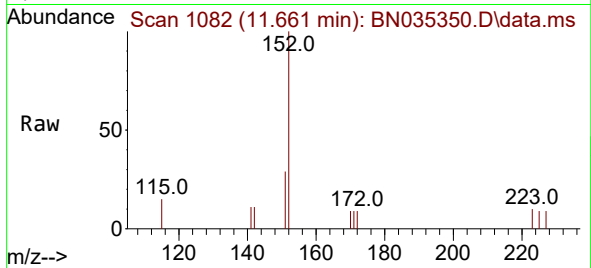




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

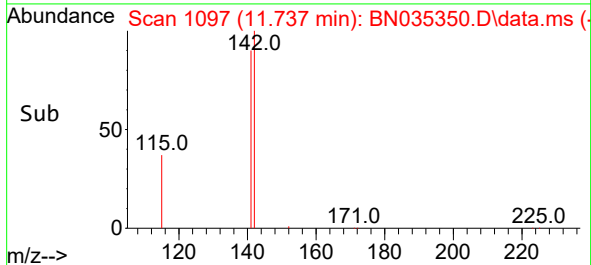
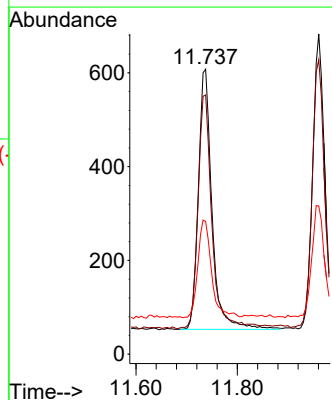
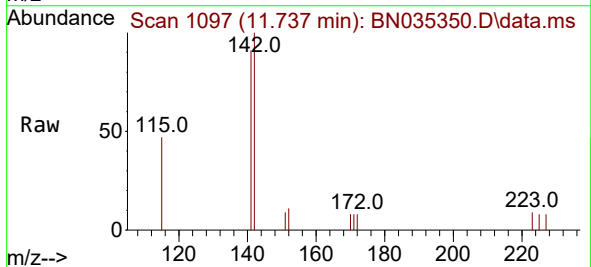
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

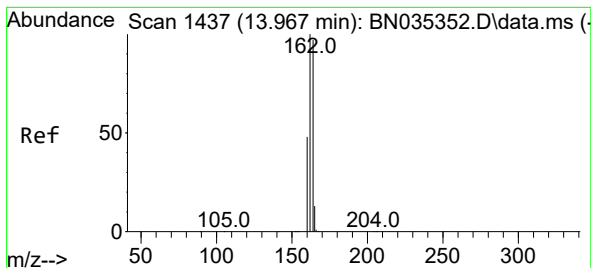
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



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

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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.967 min Scan# 14

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

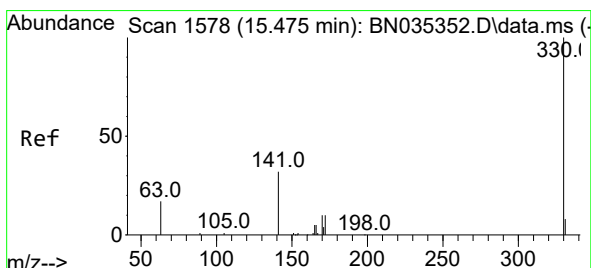
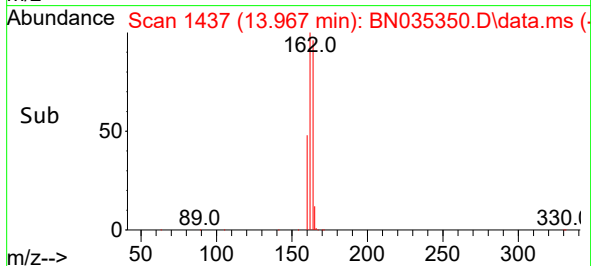
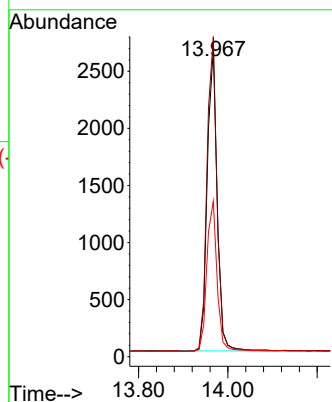
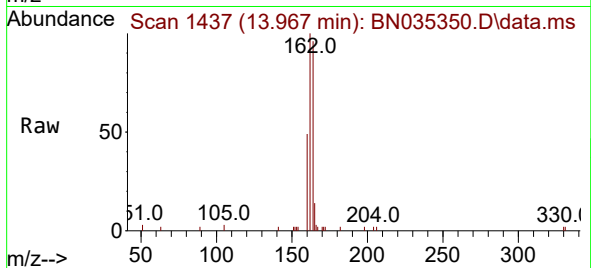
Tgt Ion:164 Resp: 4077

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

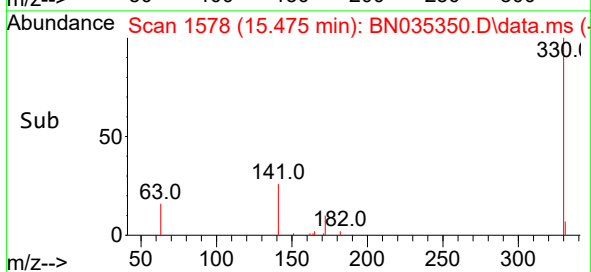
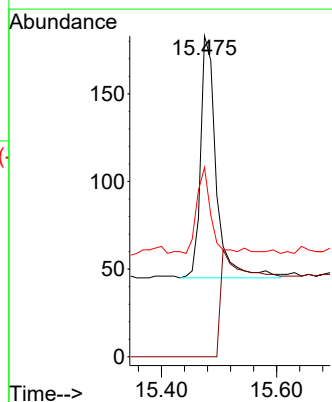
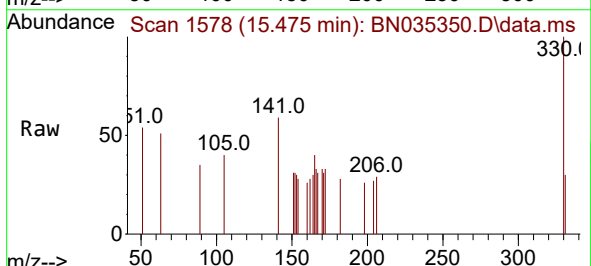
Tgt Ion:330 Resp: 278

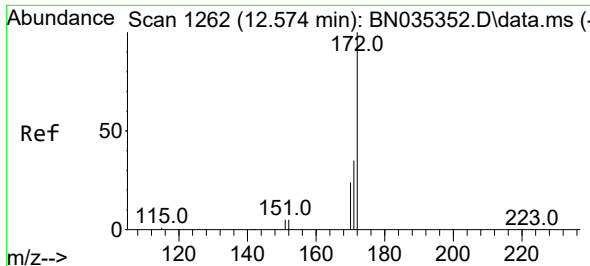
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 29.1 26.6 40.0

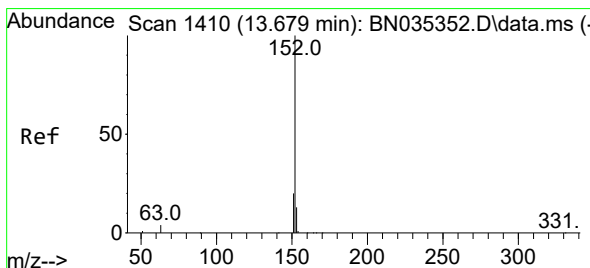
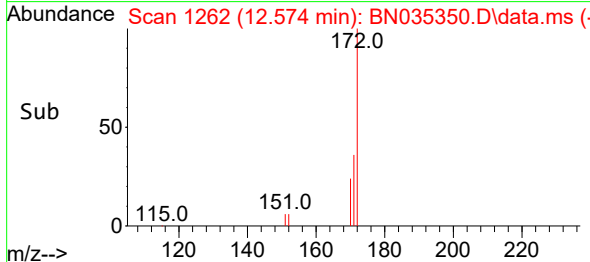
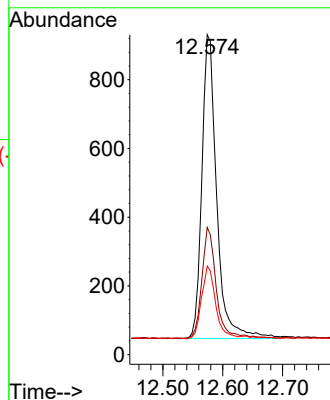
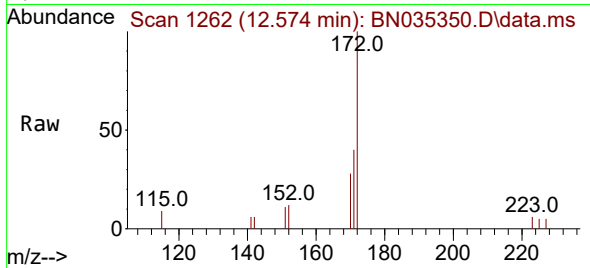




#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

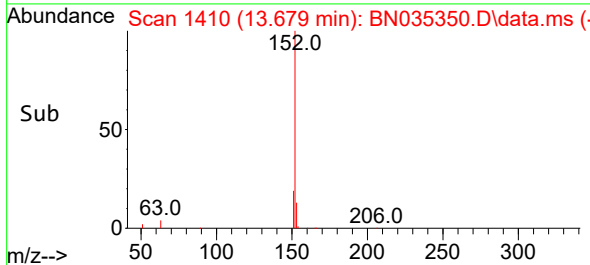
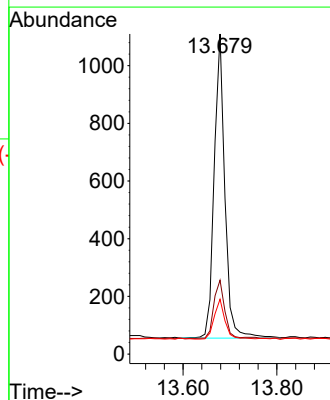
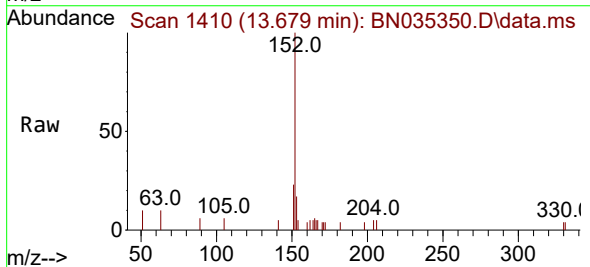
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

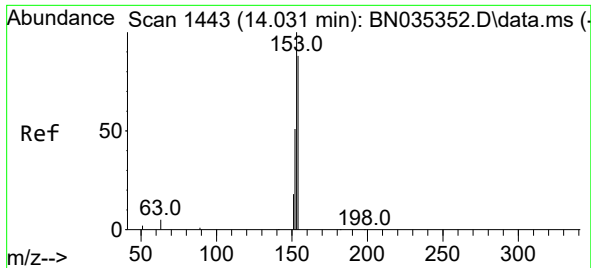
Tgt Ion:	172	Resp:	1518
Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8



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

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

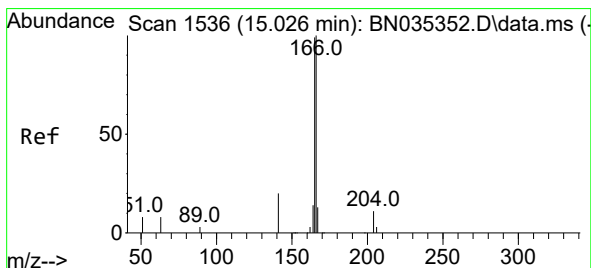
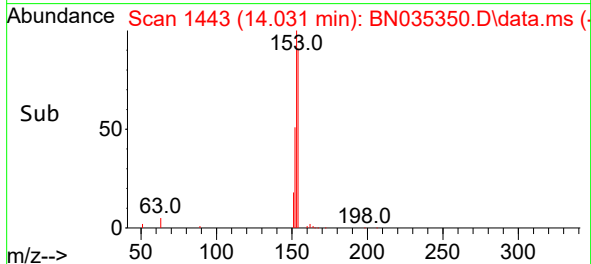
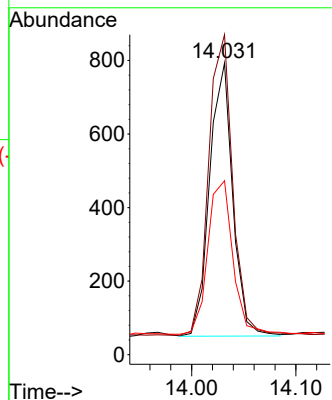
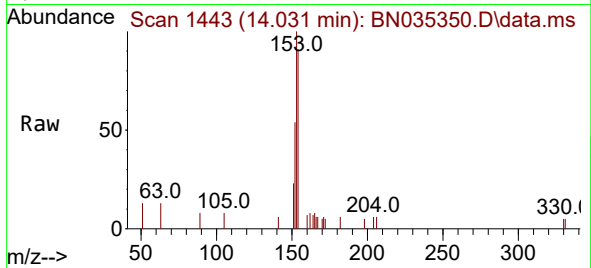




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

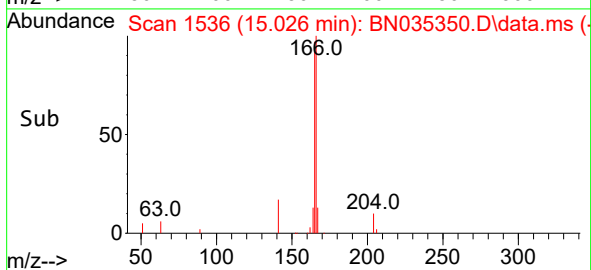
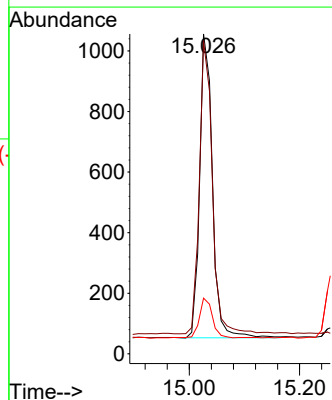
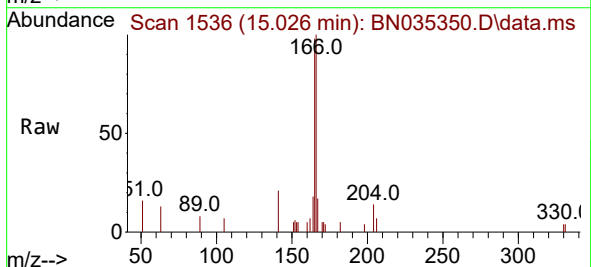
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

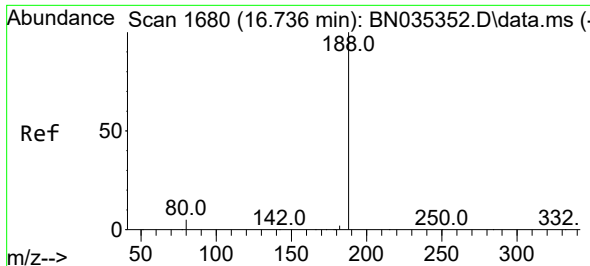
Tgt Ion:154 Resp: 1143
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6



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

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

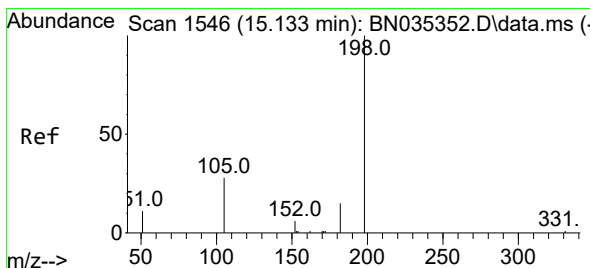
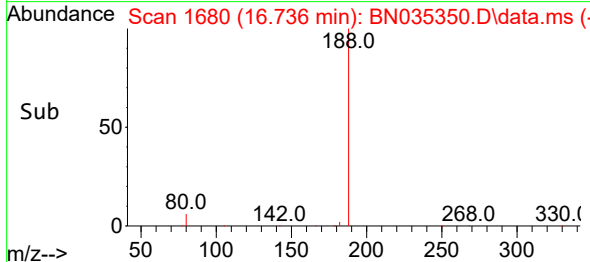
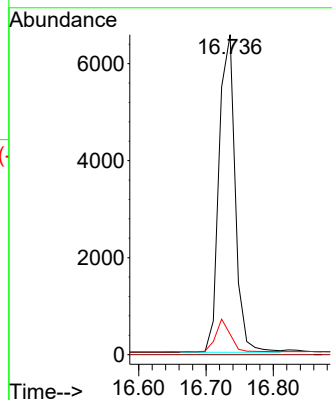
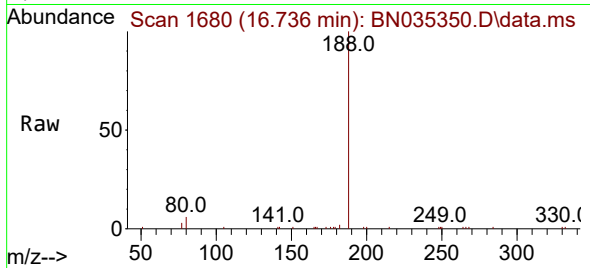




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

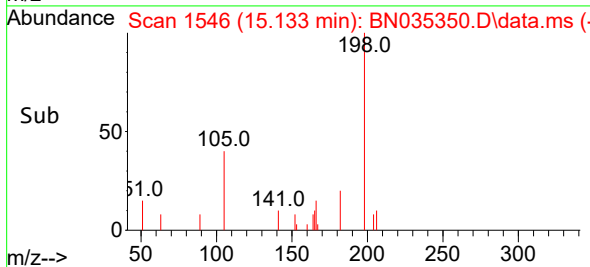
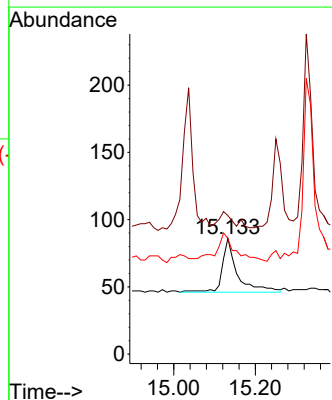
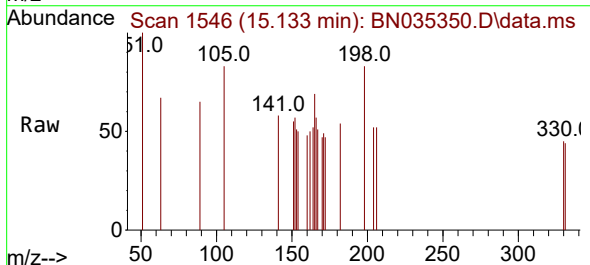
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

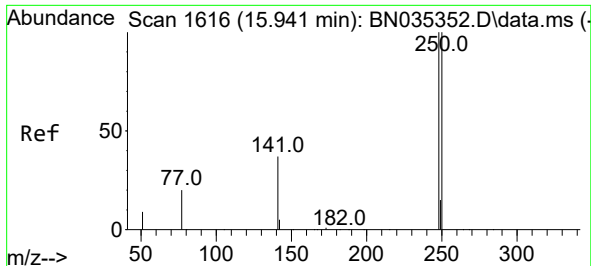
Tgt Ion:188 Resp: 10855
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.4 4.6 6.8



#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#

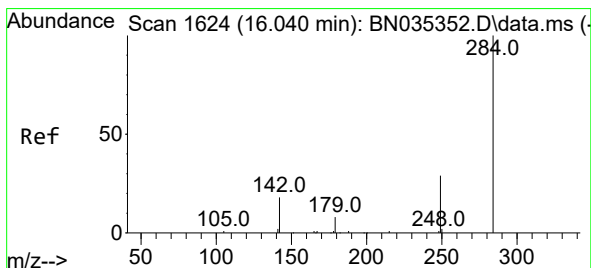
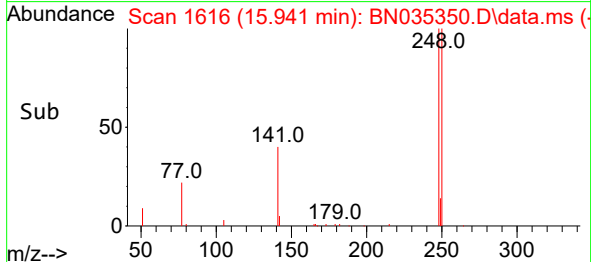
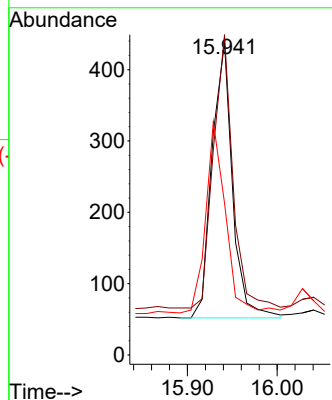
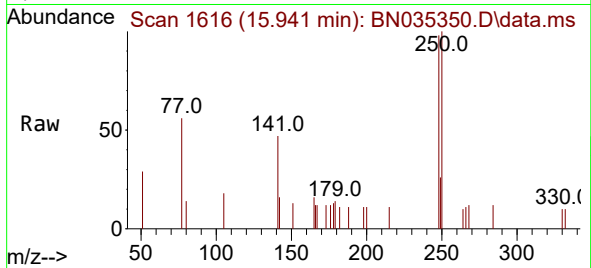




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

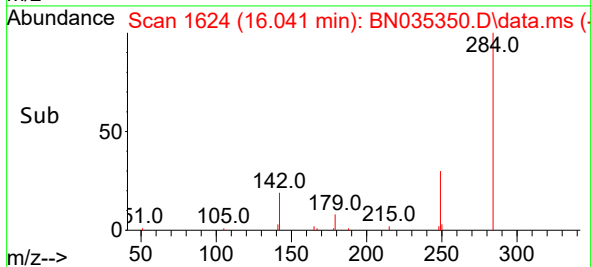
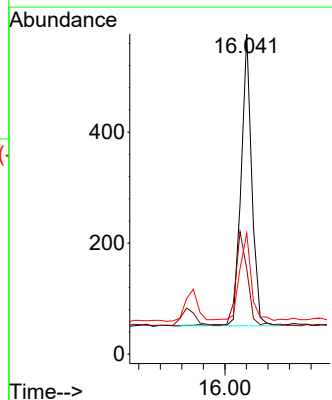
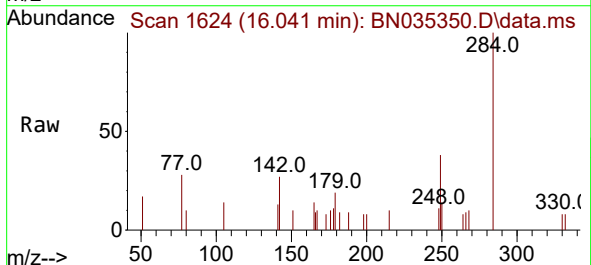
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

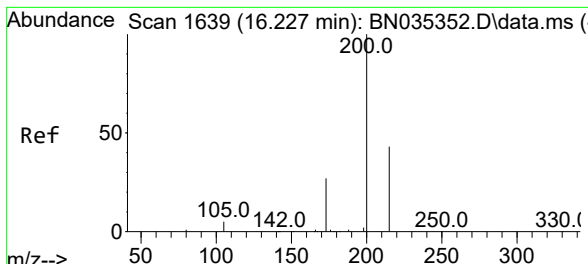
Tgt Ion:248 Resp: 612
Ion Ratio Lower Upper
248 100
250 102.5 80.6 120.8
141 48.6 31.5 47.3#



#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

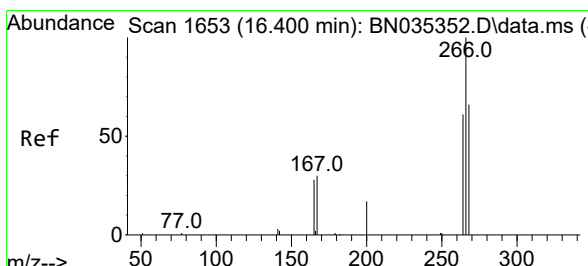
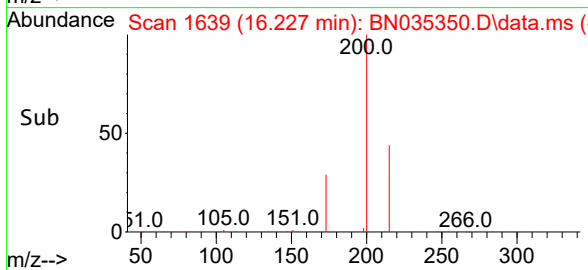
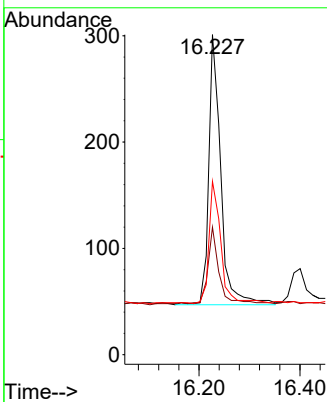
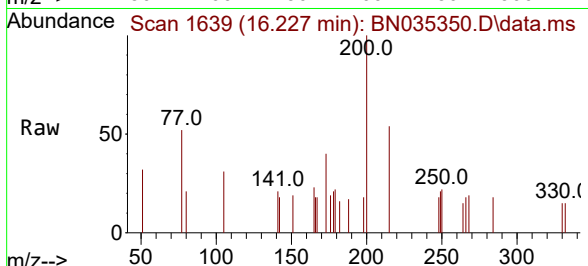




#23
Atrazine
 Concen: 0.068 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

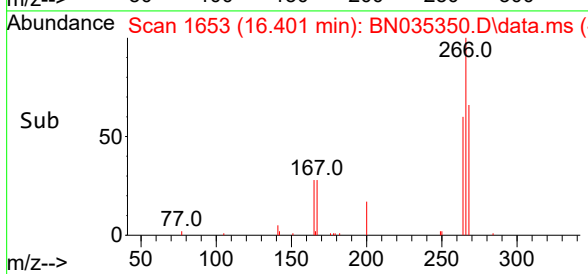
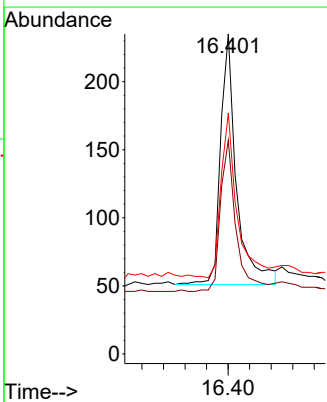
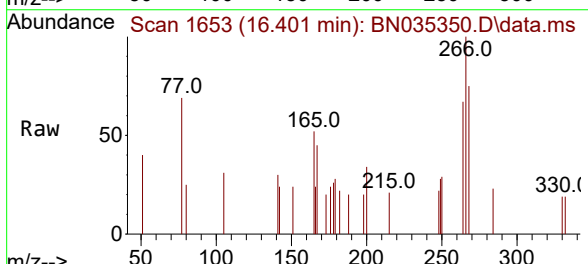
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

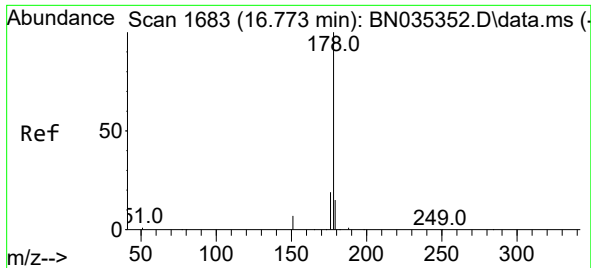
Tgt Ion:	200	Resp:	421
Ion Ratio	Lower	Upper	
200	100		
173	39.9	24.1	36.1
215	54.2	36.9	55.3



#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

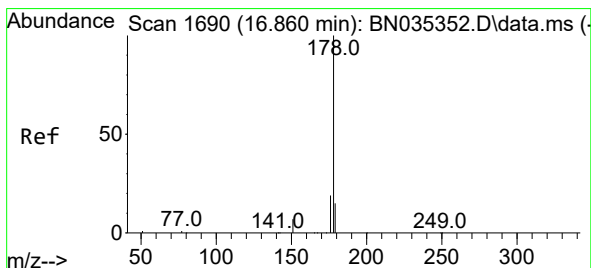
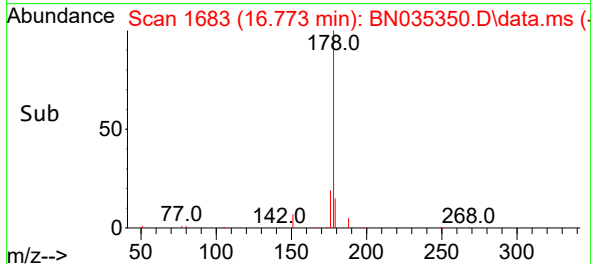
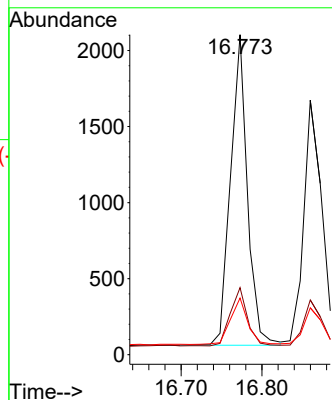
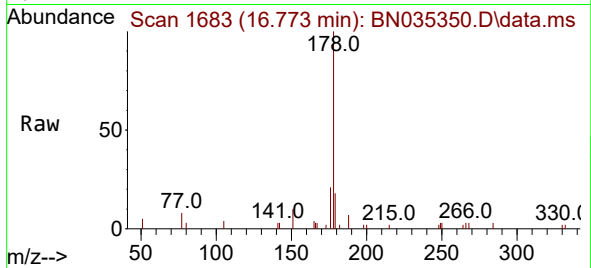




#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

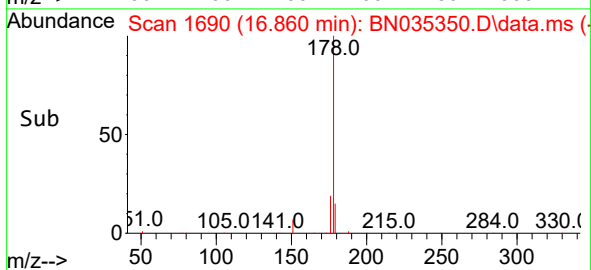
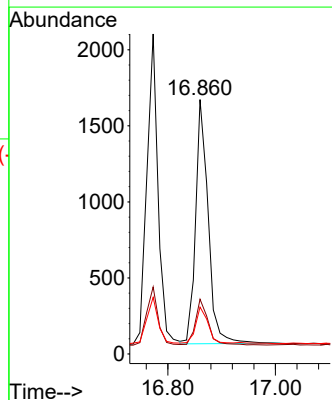
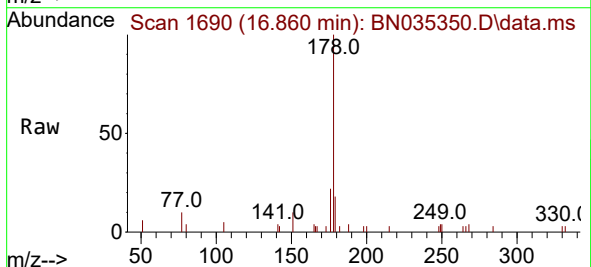
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

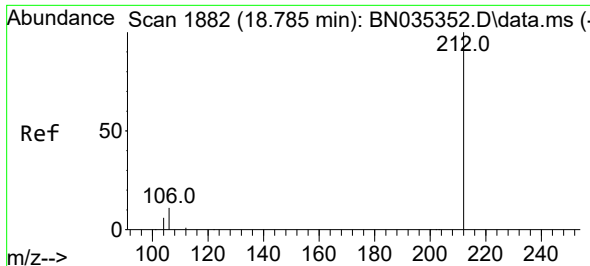
Tgt Ion:178 Resp: 2963
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.6 12.3 18.5



#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

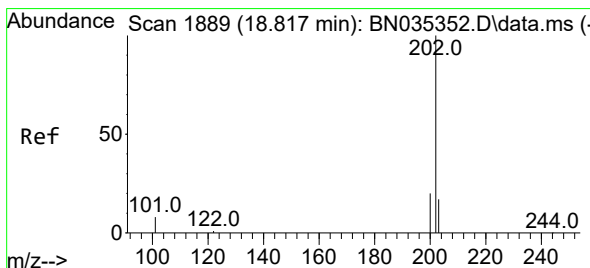
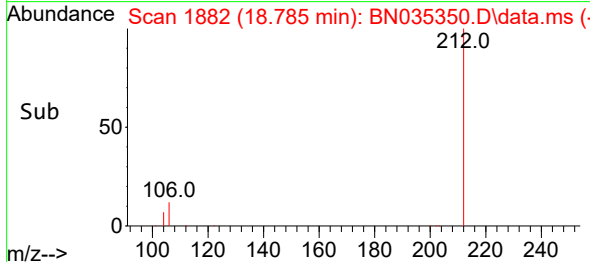
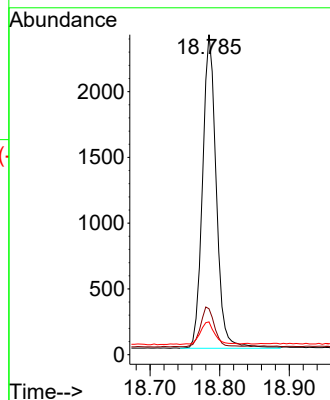
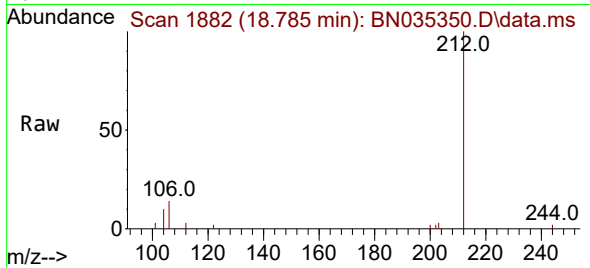




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

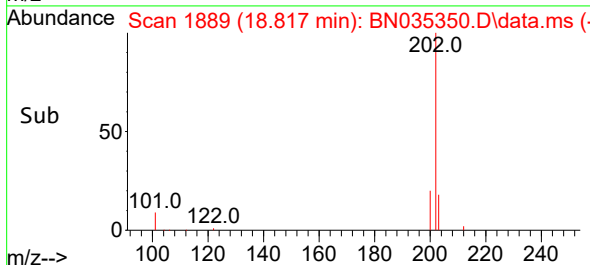
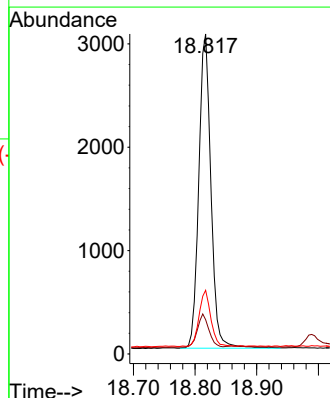
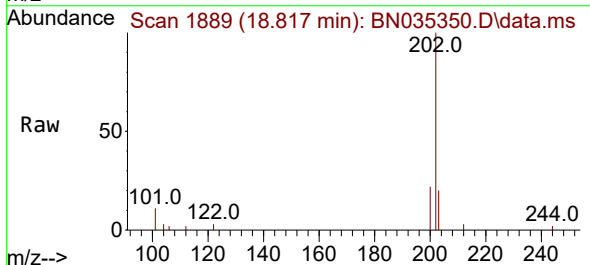
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

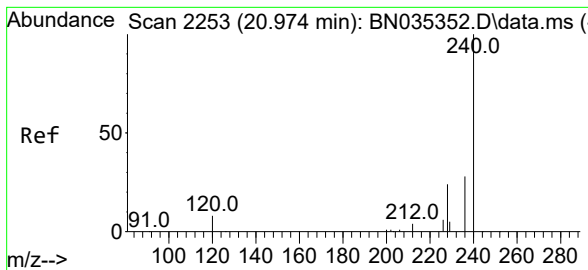
Tgt Ion:212 Resp: 3265
Ion Ratio Lower Upper
212 100
106 12.8 9.2 13.8
104 7.6 5.3 7.9



#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

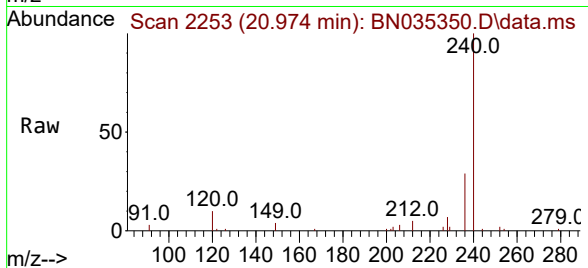
Tgt Ion:202 Resp: 4173
Ion Ratio Lower Upper
202 100
101 10.2 7.4 11.0
203 17.3 13.7 20.5



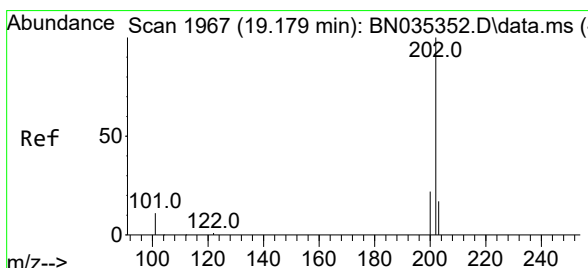
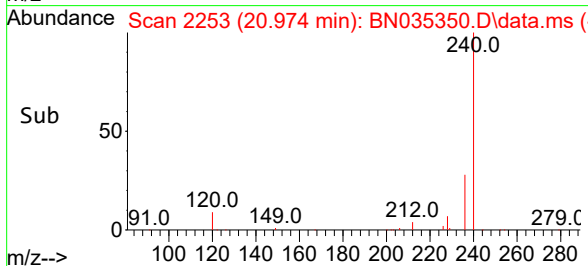
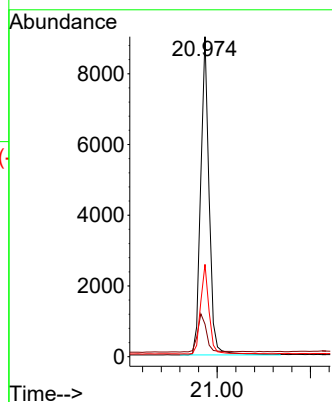


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

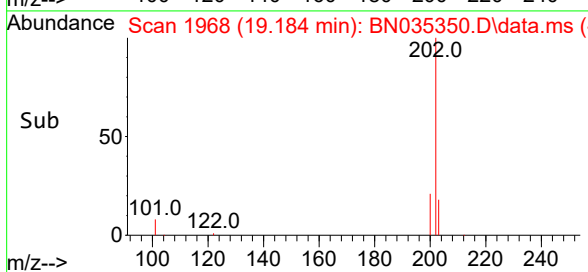
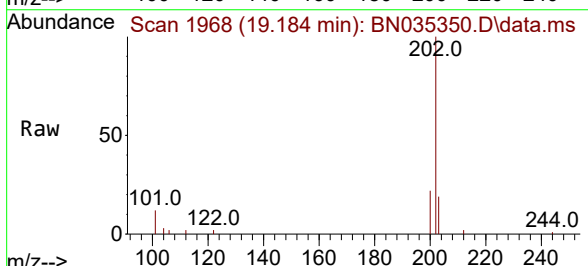
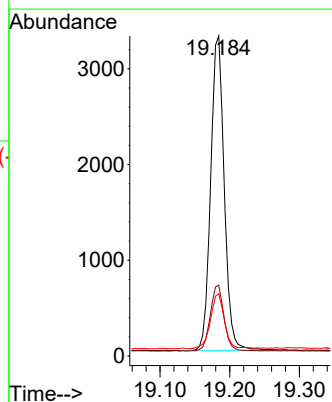


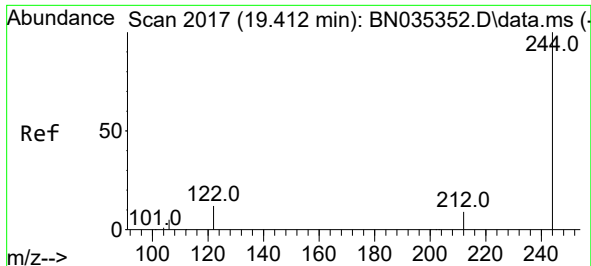
Tgt Ion:240 Resp: 11269
Ion Ratio Lower Upper
240 100
120 10.1 7.9 11.9
236 28.8 22.9 34.3



#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

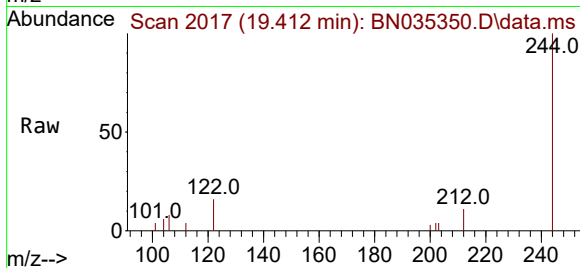
Tgt Ion:202 Resp: 4461
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 18.0 14.3 21.5



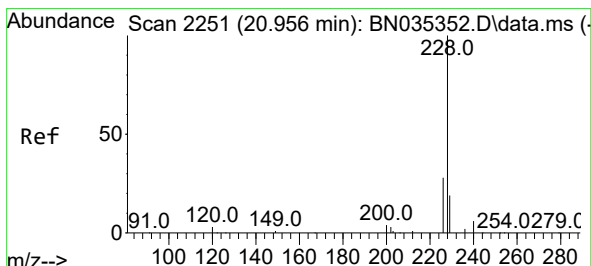
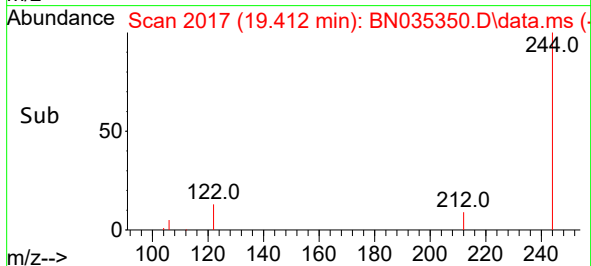
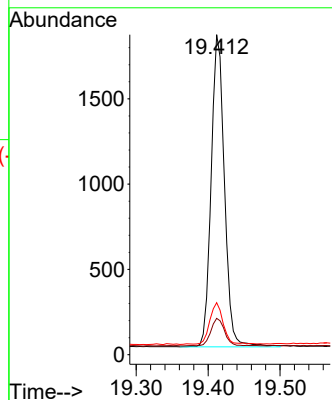


#31
 Terphenyl-d14
 Concen: 0.099 ng
 RT: 19.412 min Scan# 2017
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

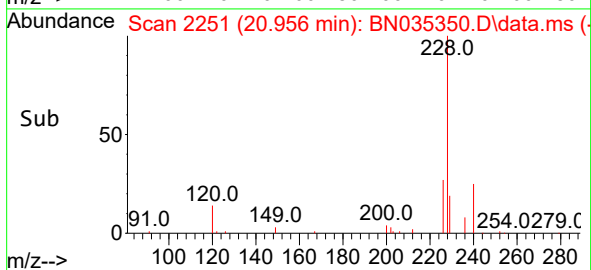
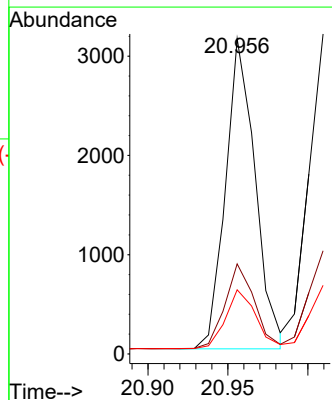
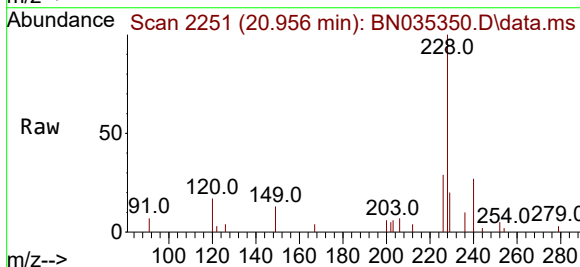


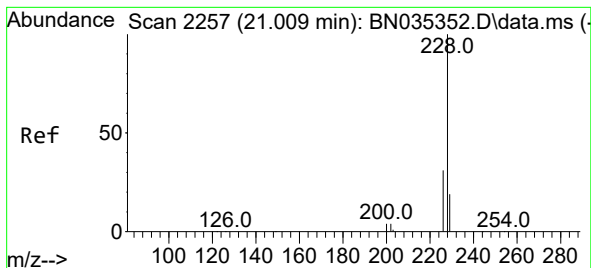
Tgt Ion:244 Resp: 2344
 Ion Ratio Lower Upper
 244 100
 212 11.4 8.1 12.1
 122 16.3 10.3 15.5#



#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

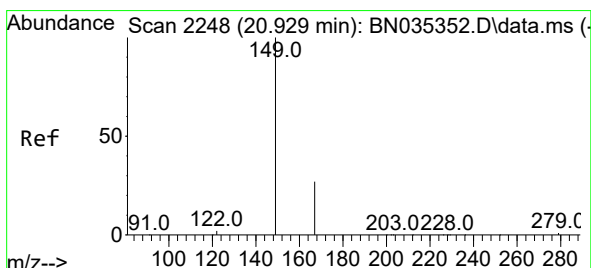
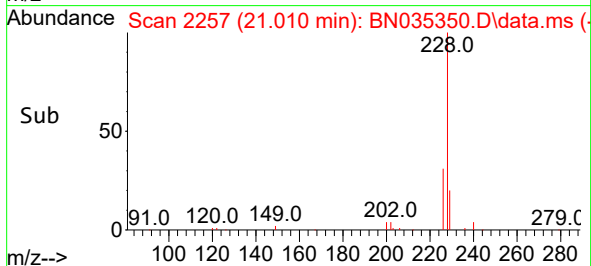
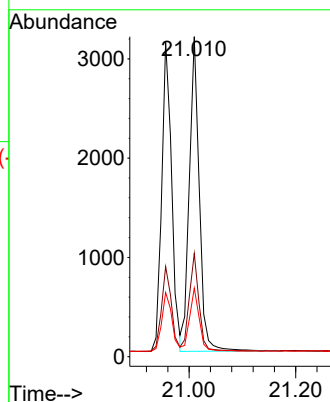
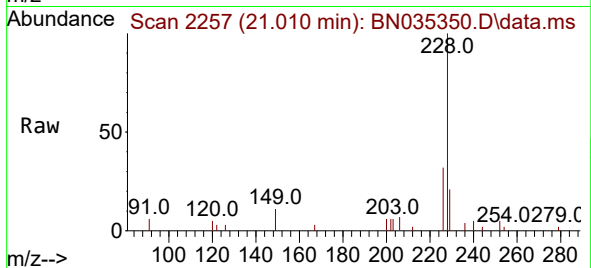
Tgt Ion:228 Resp: 4123

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

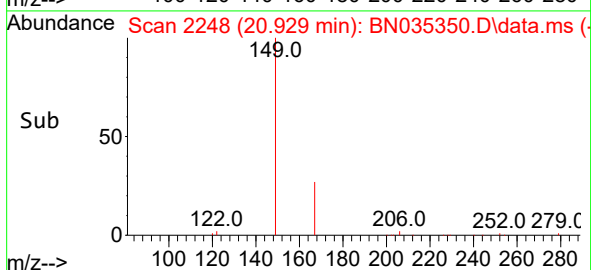
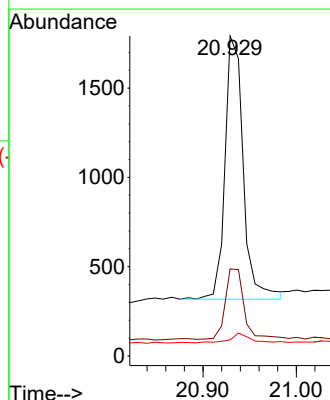
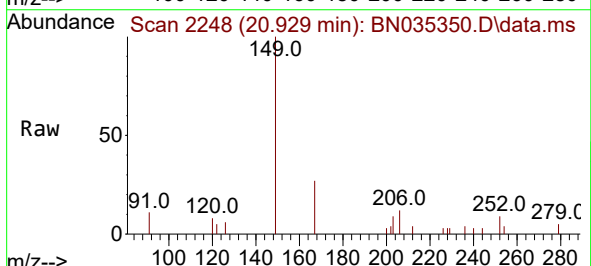
Tgt Ion:149 Resp: 1999

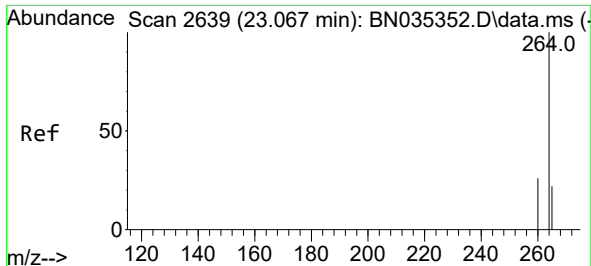
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

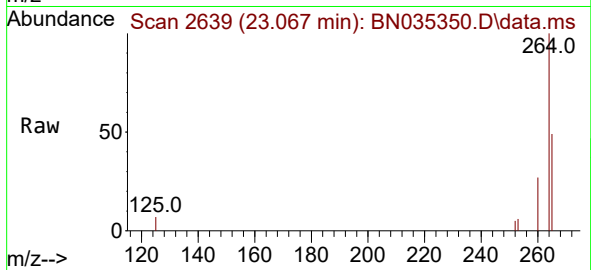
279 3.6 2.7 4.1



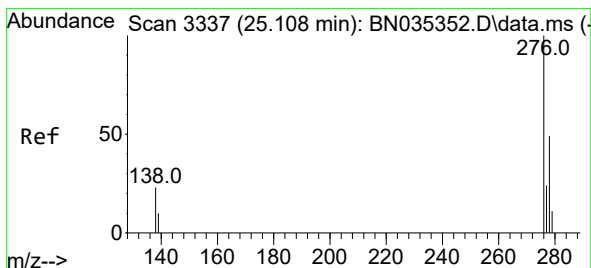
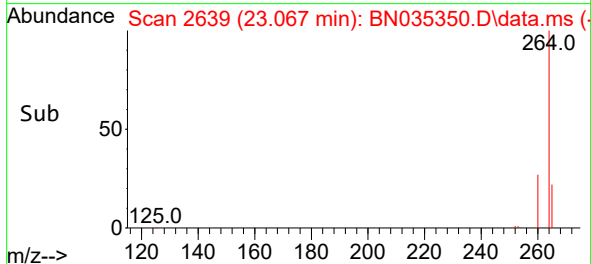
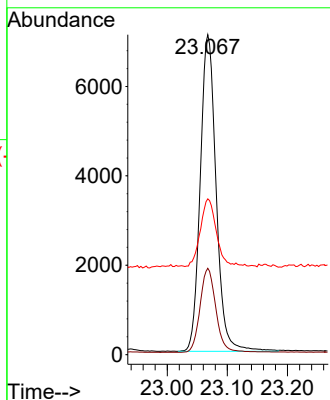


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

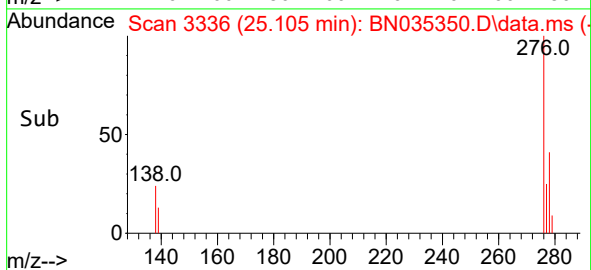
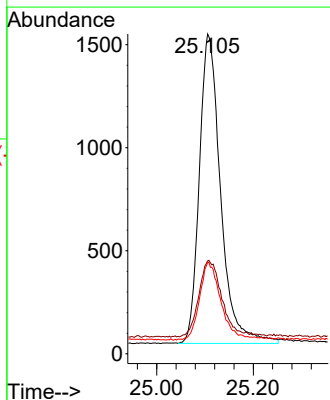
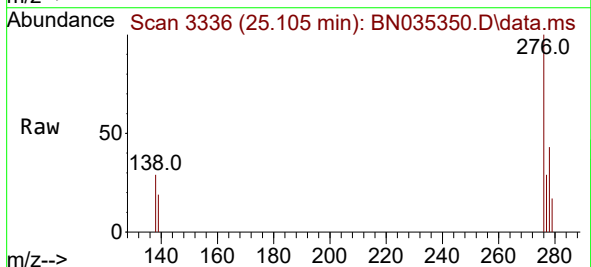


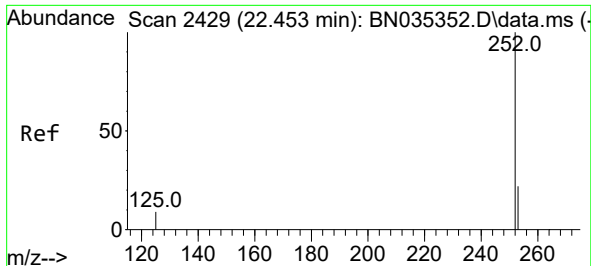
Tgt Ion:264 Resp: 13004
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 48.7 40.2 60.4



#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

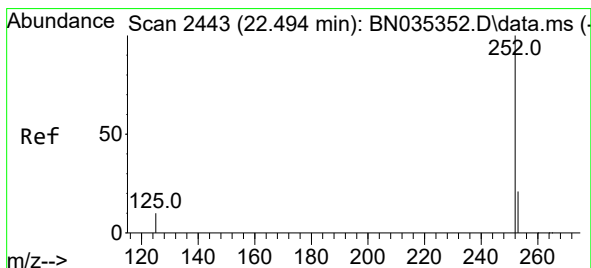
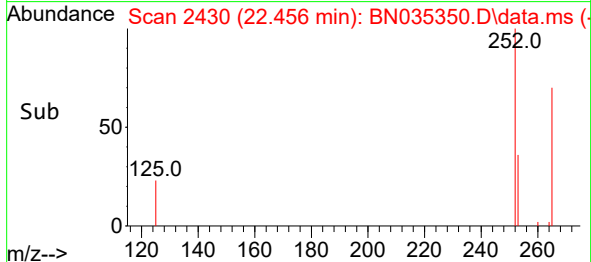
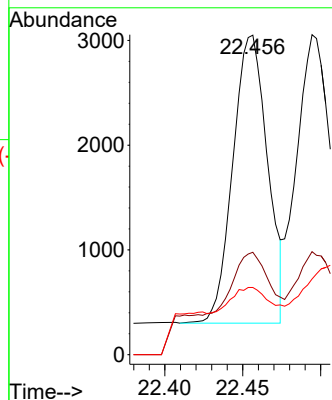
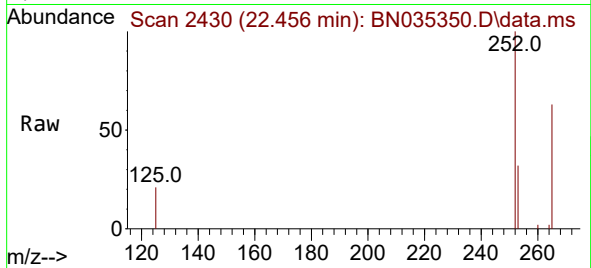




#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 2429
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

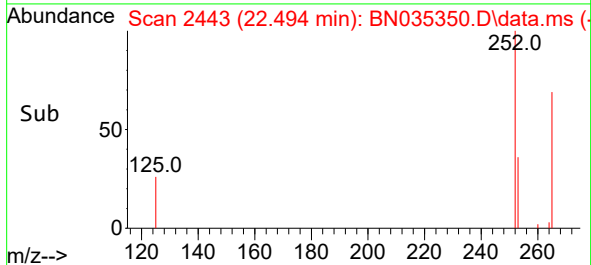
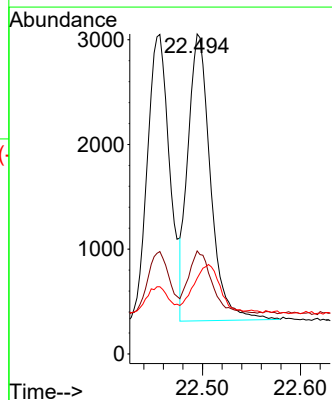
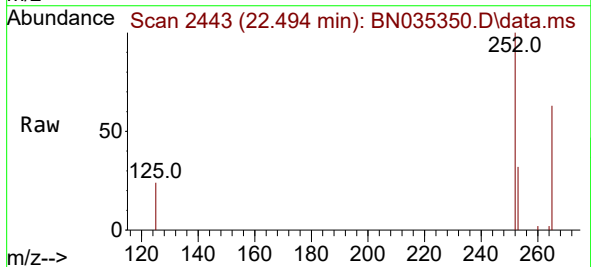
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

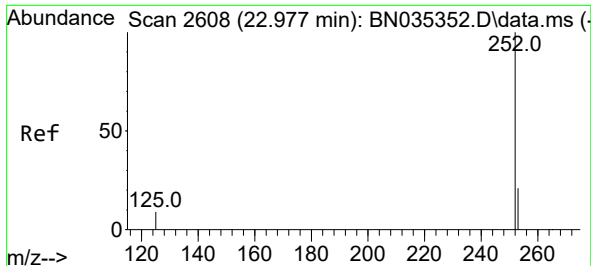
Tgt Ion:252 Resp: 4243
Ion Ratio Lower Upper
252 100
253 32.1 19.6 29.4#
125 21.0 9.6 14.4#



#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

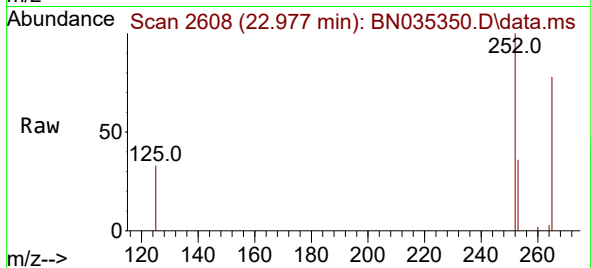
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



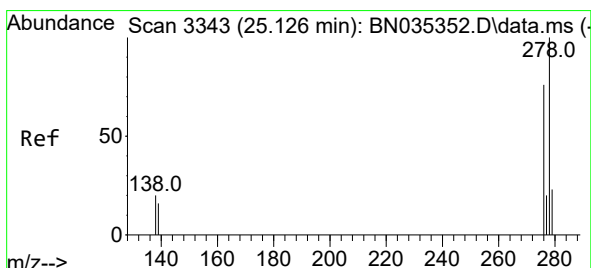
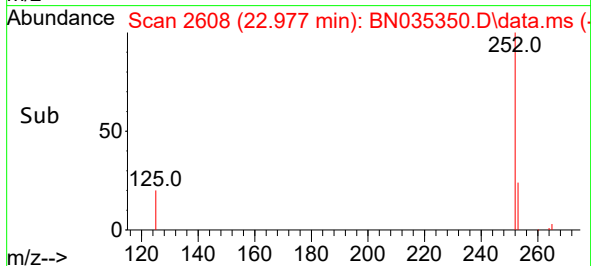
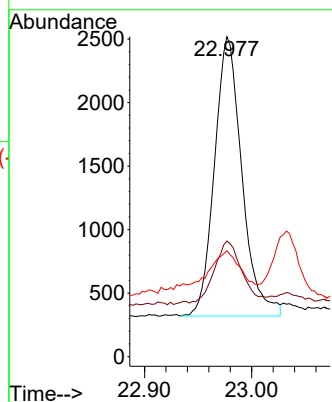
Tgt Ion:252 Resp: 3913

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

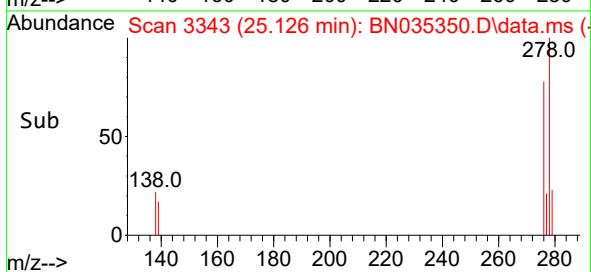
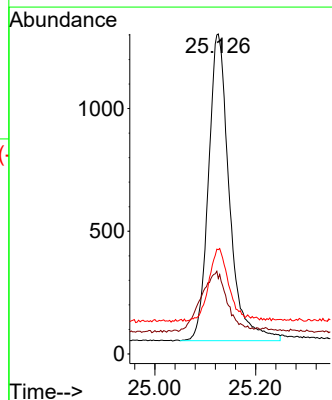
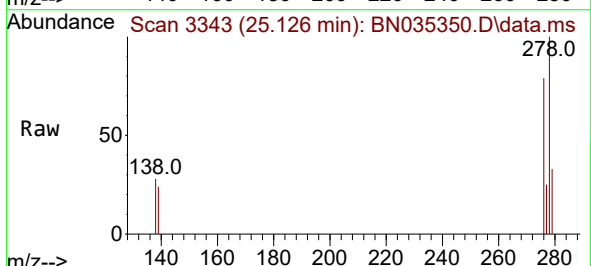
Tgt Ion:278 Resp: 3588

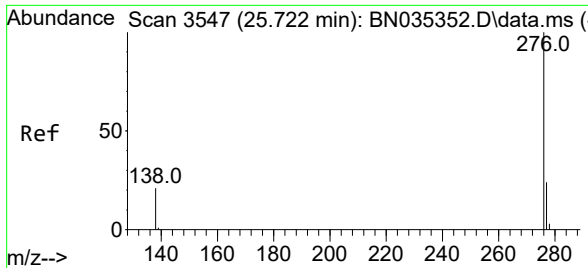
Ion Ratio Lower Upper

278 100

139 23.6 14.2 21.4#

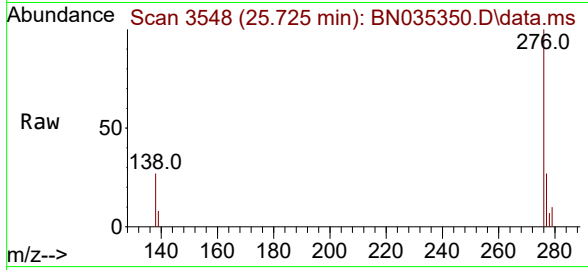
279 32.6 20.5 30.7#



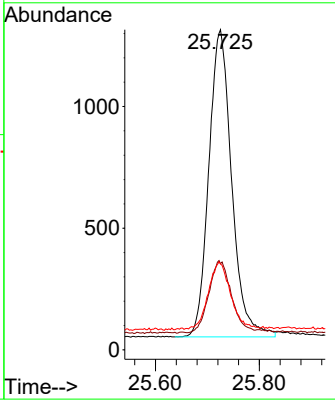
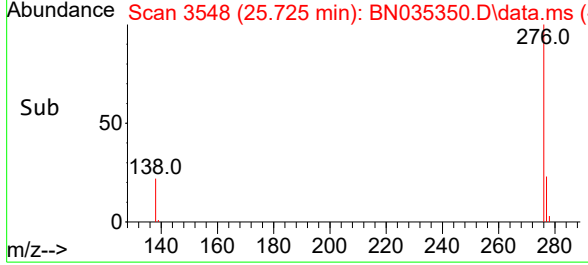


#41
 Benzo(g,h,i)perylene
 Concen: 0.088 ng
 RT: 25.725 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

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

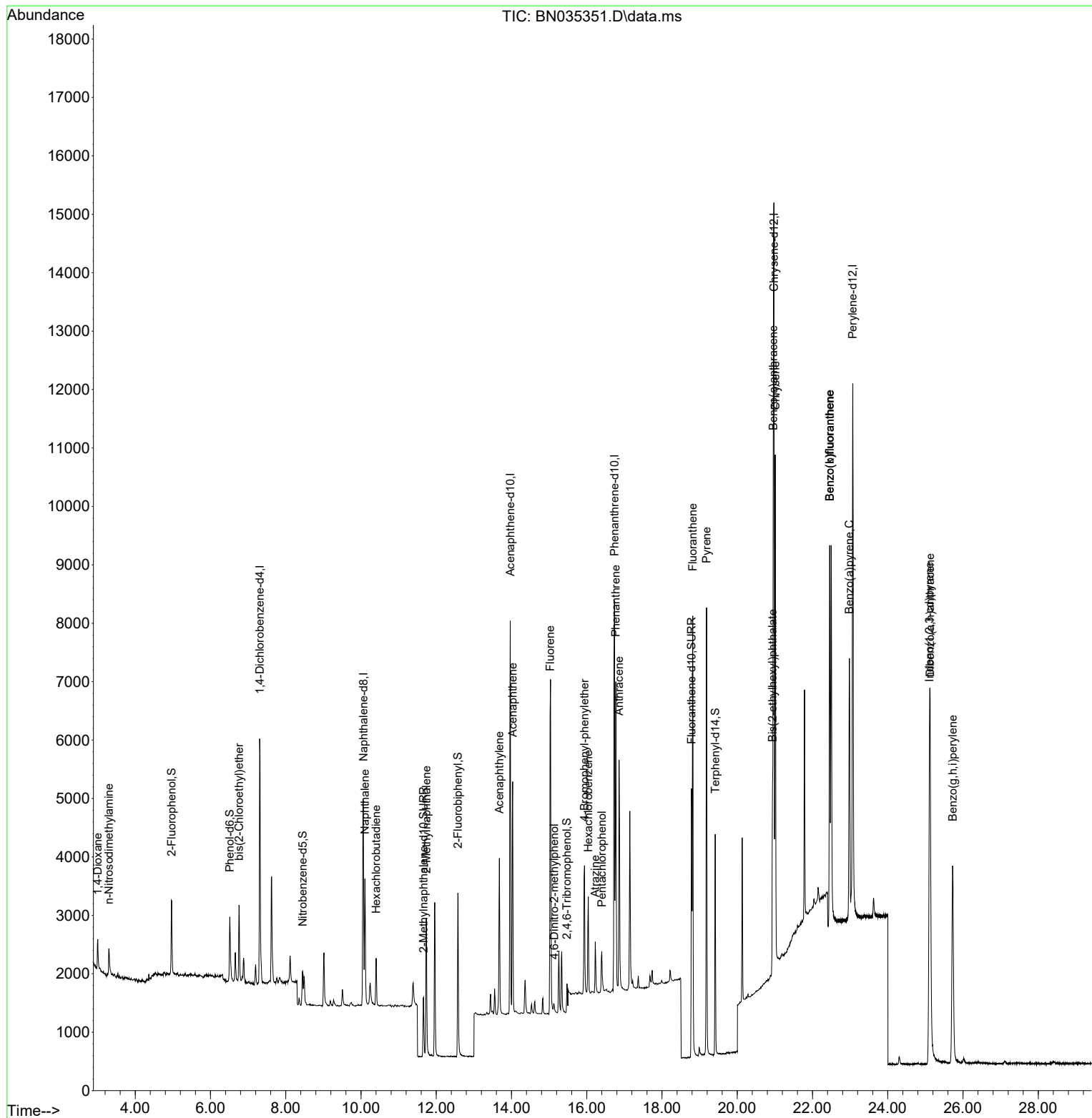
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	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						
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...	21.938	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

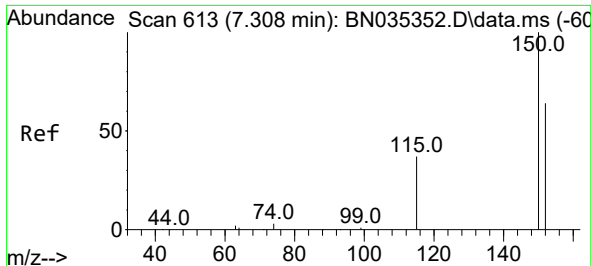
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

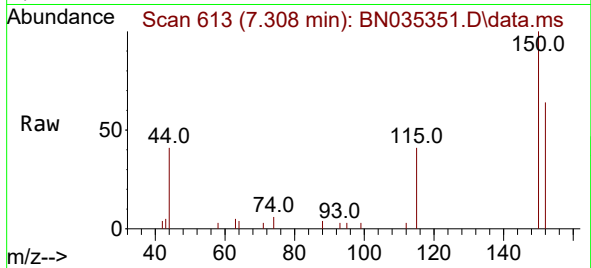
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



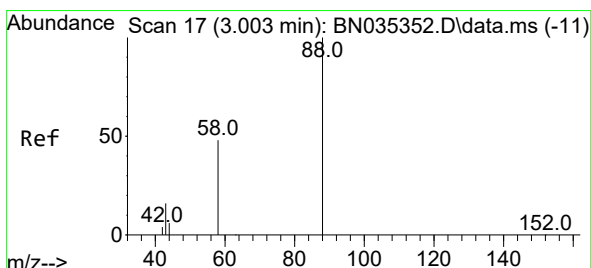
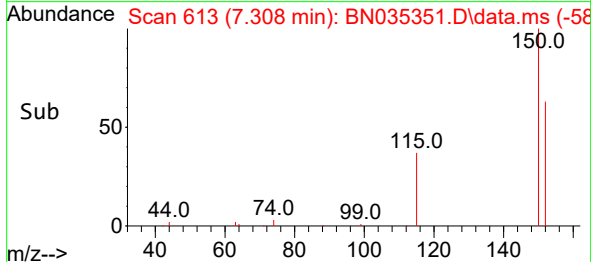
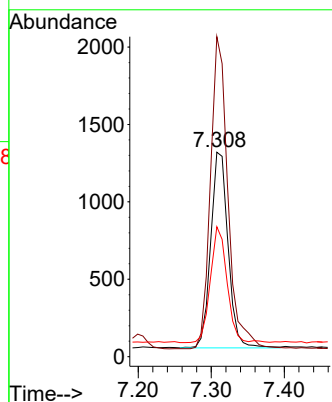


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

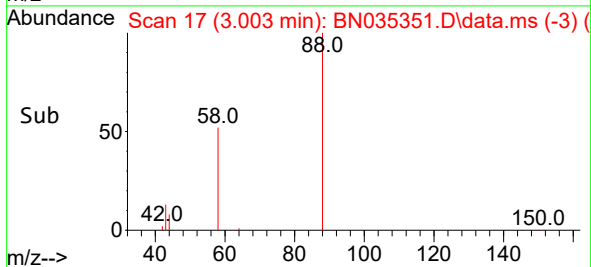
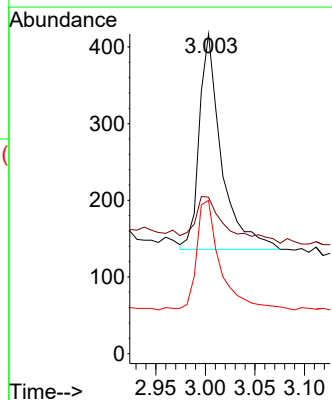
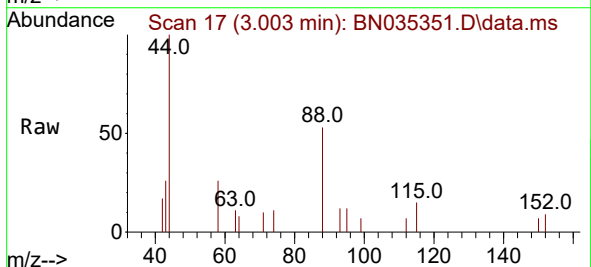


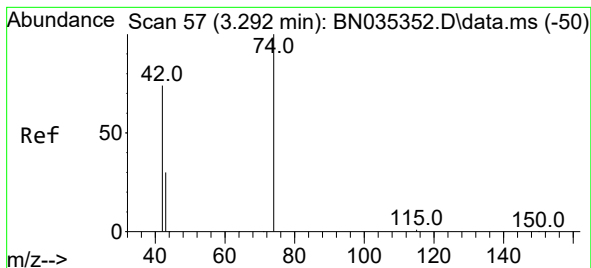
Tgt Ion:152 Resp: 2084
Ion Ratio Lower Upper
152 100
150 156.5 124.0 186.0
115 63.5 49.6 74.4



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

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





#3

n-Nitrosodimethylamine

Concen: 0.179 ng

RT: 3.299 min Scan# 51

Delta R.T. 0.007 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

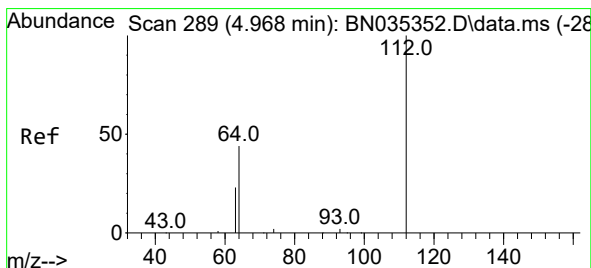
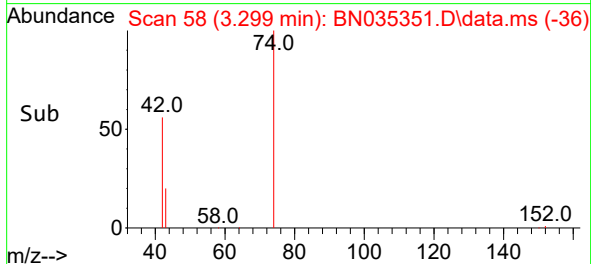
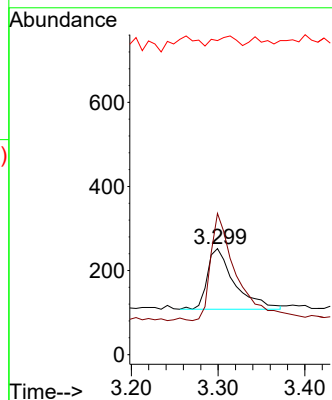
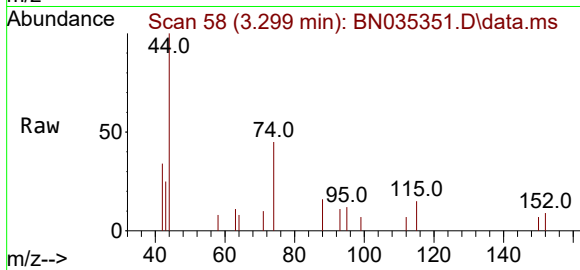
Tgt Ion: 42 Resp: 315

Ion Ratio Lower Upper

42 100

74 172.4 124.9 187.3

44 16.2 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.219 ng

RT: 4.968 min Scan# 289

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

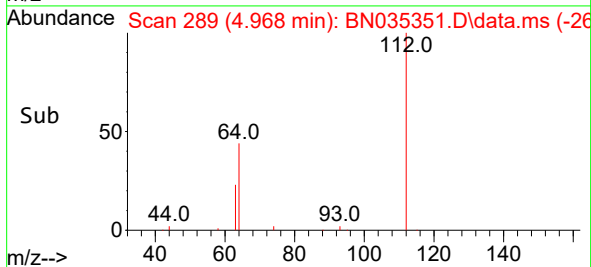
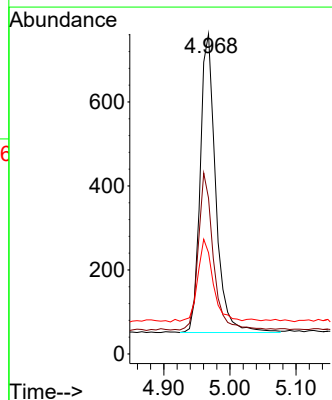
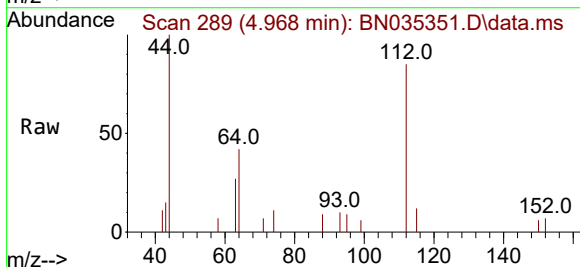
Tgt Ion: 112 Resp: 1159

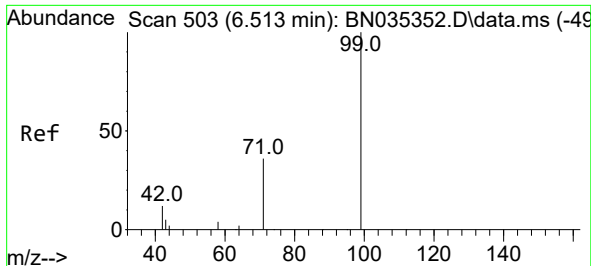
Ion Ratio Lower Upper

112 100

64 51.2 39.8 59.8

63 27.9 21.0 31.6

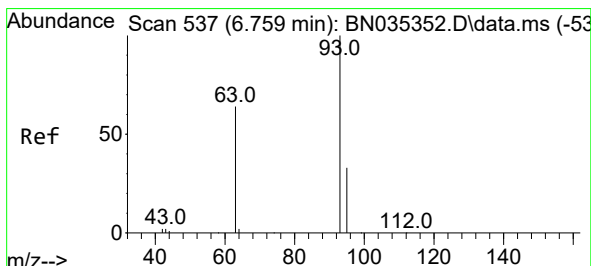
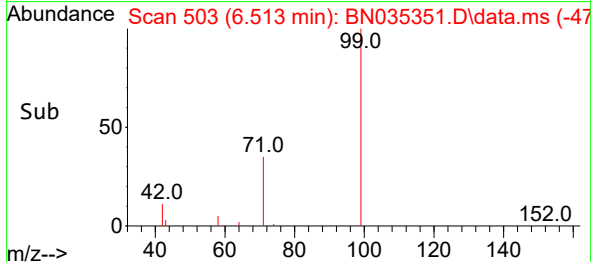
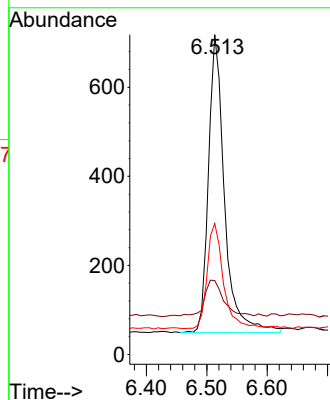
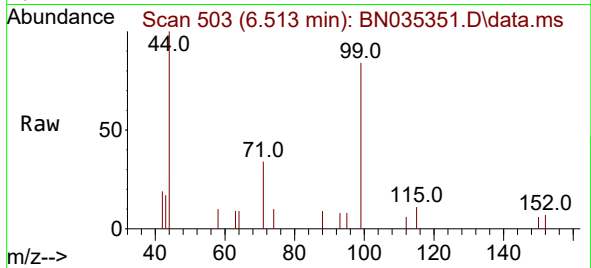




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

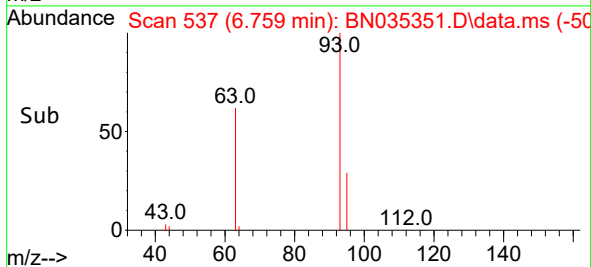
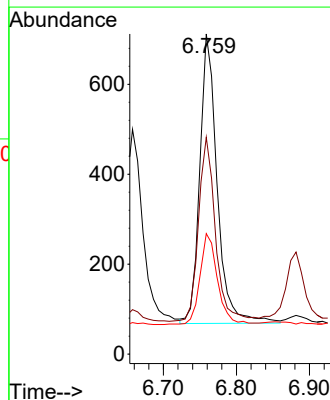
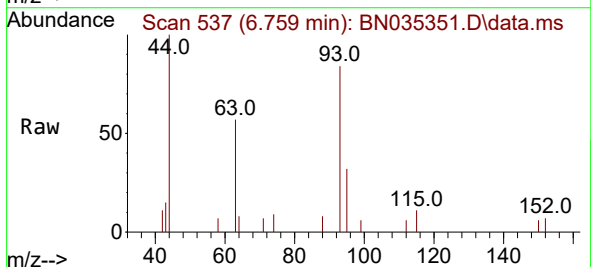
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

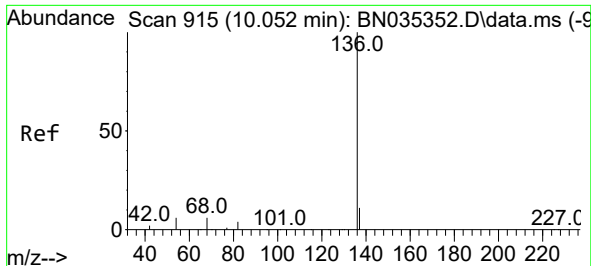
Tgt Ion:	99	Resp:	1236
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



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

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

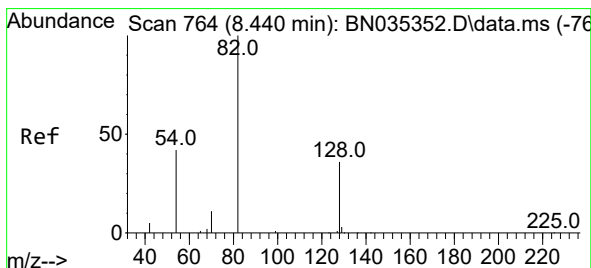
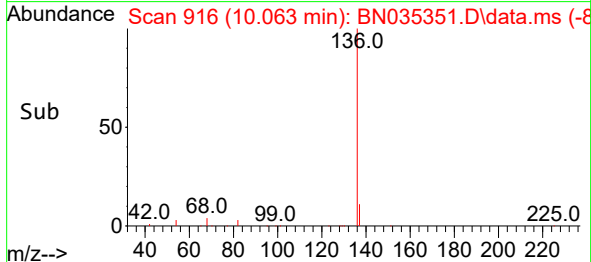
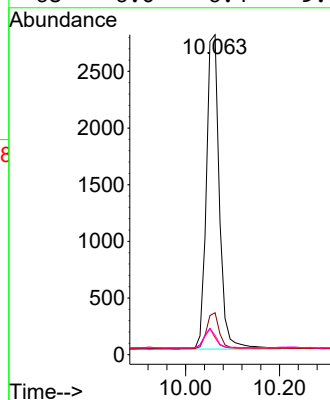
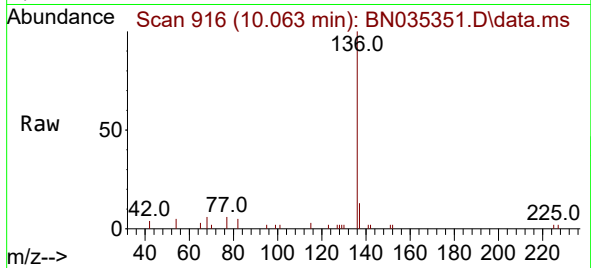




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 915
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

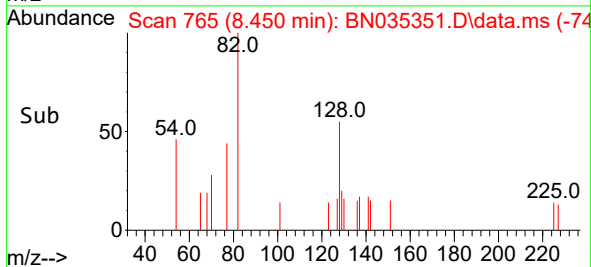
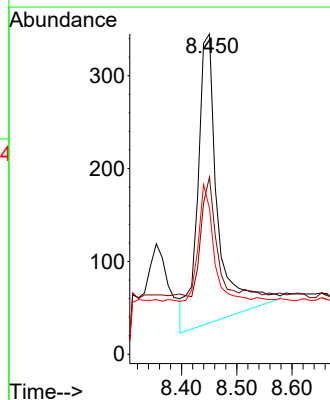
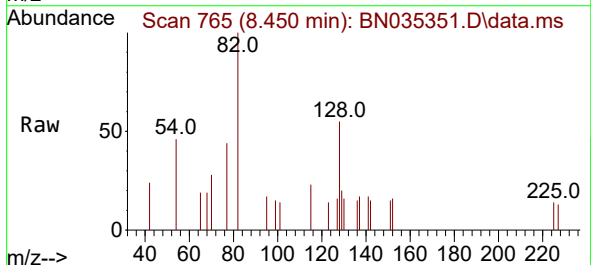
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

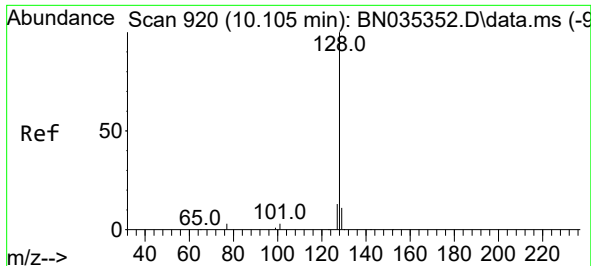
Tgt Ion:	136	Resp:	5334
Ion Ratio	Lower	Upper	
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:	82	Resp:	806
Ion Ratio	Lower	Upper	
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1

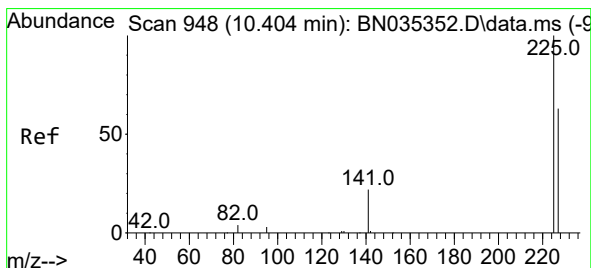
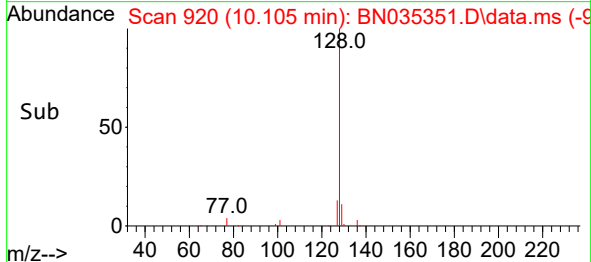
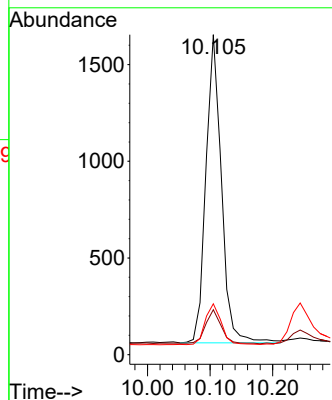
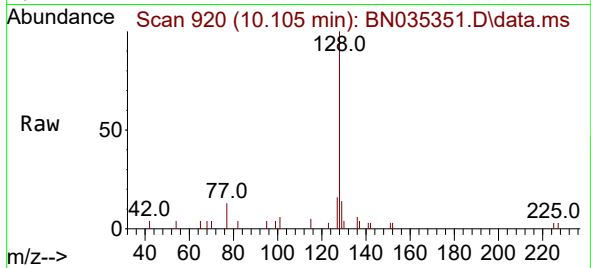




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

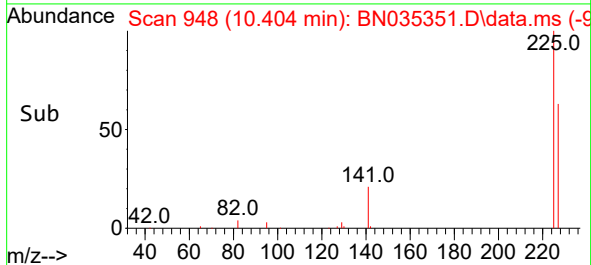
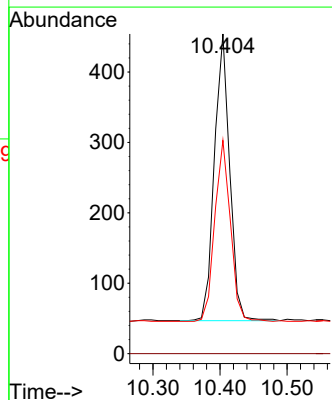
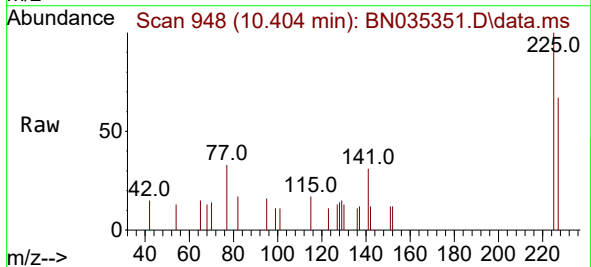
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

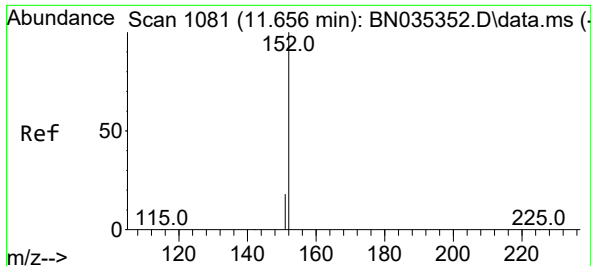
Tgt Ion:128 Resp: 2744
Ion Ratio Lower Upper
128 100
129 14.0 9.8 14.6
127 15.9 11.4 17.2



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

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

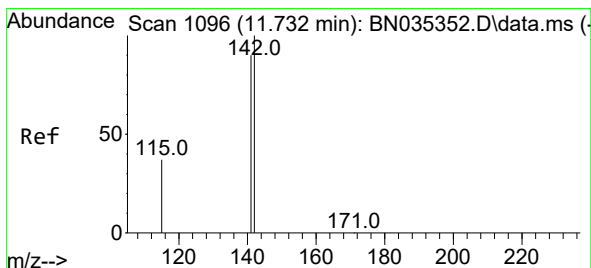
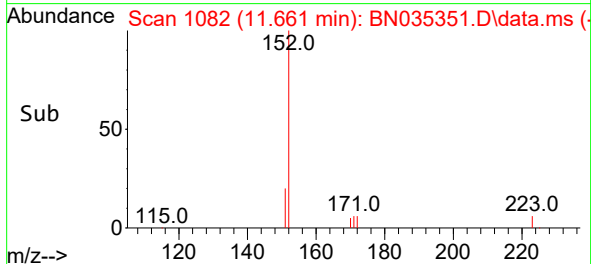
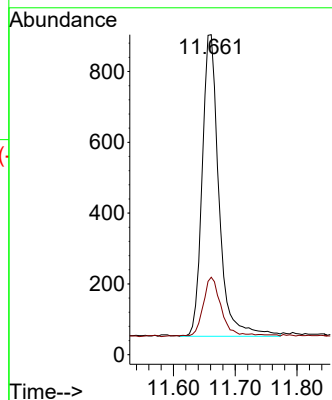
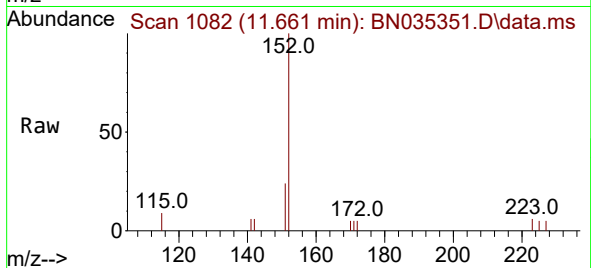




#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

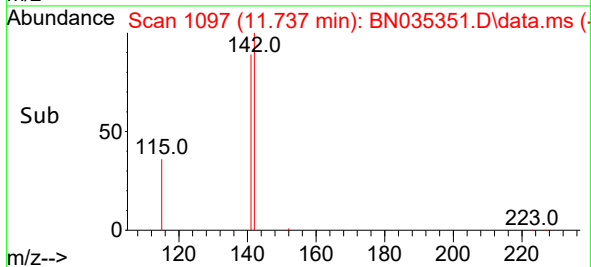
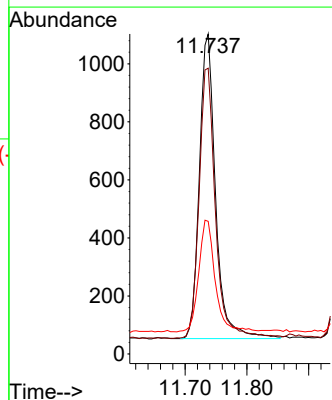
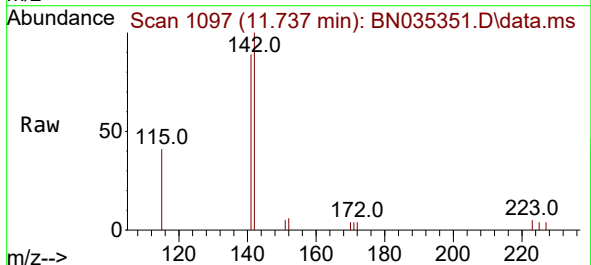
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

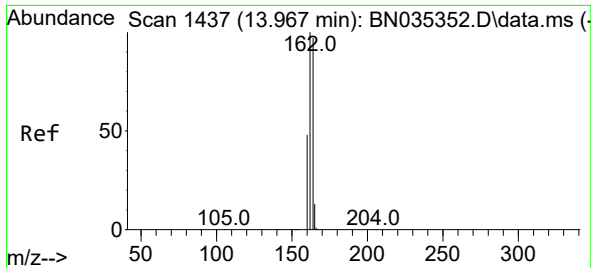
Tgt Ion:152 Resp: 1608
Ion Ratio Lower Upper
152 100
151 22.3 16.6 25.0



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

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

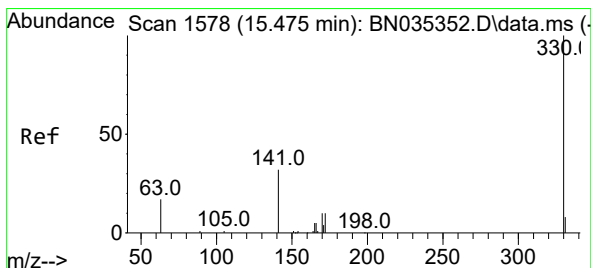
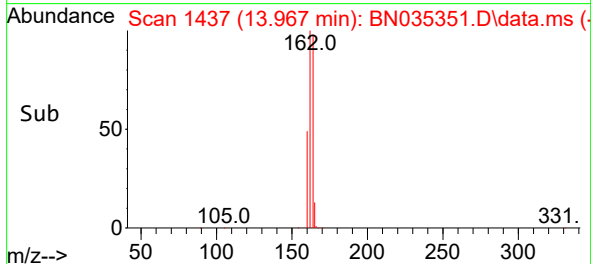
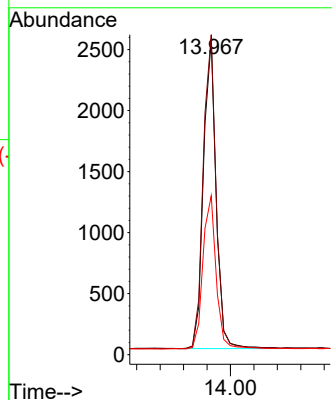
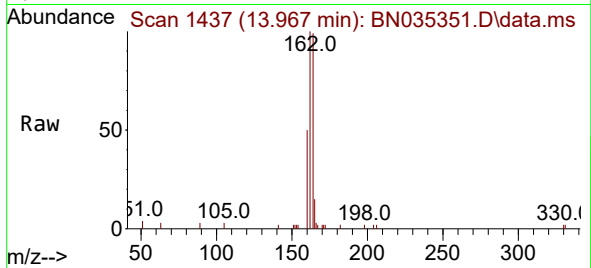




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

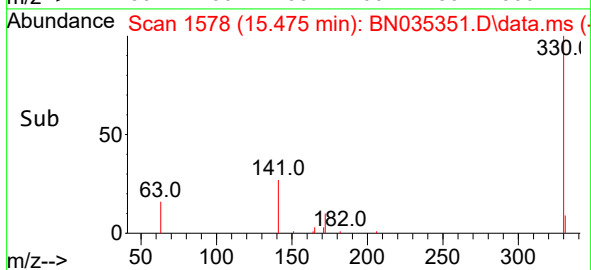
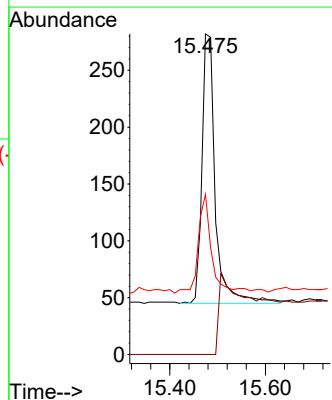
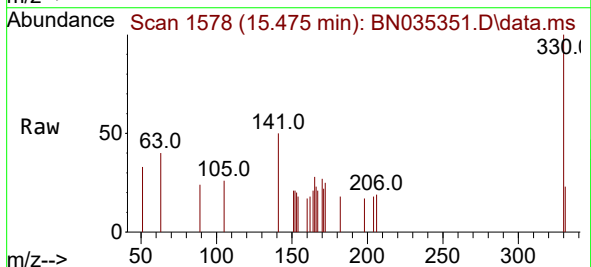
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

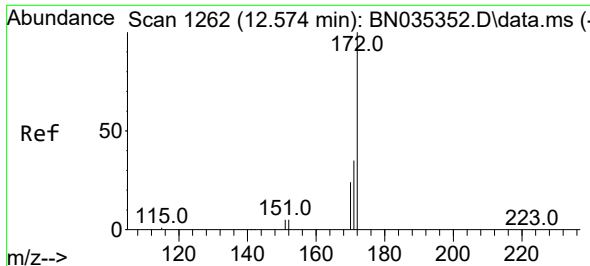
Tgt Ion:164 Resp: 3808
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 50.4 40.1 60.1



#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

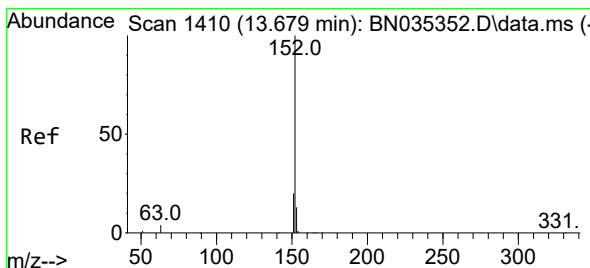
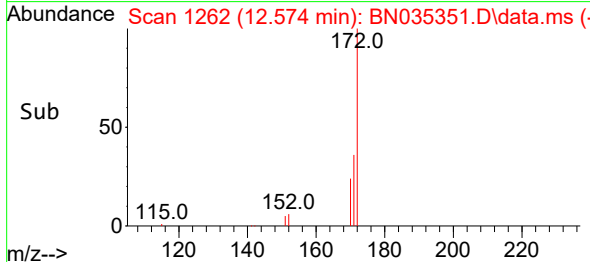
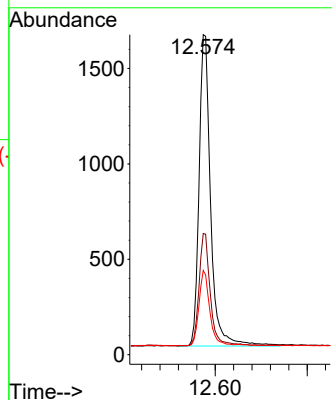
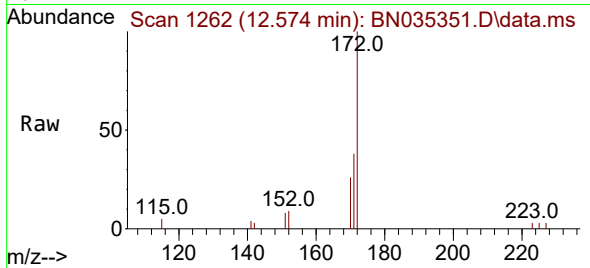




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

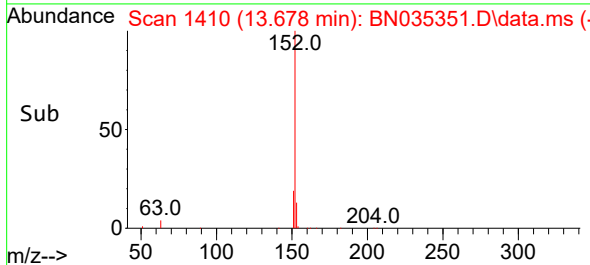
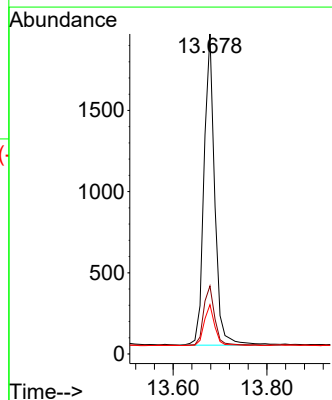
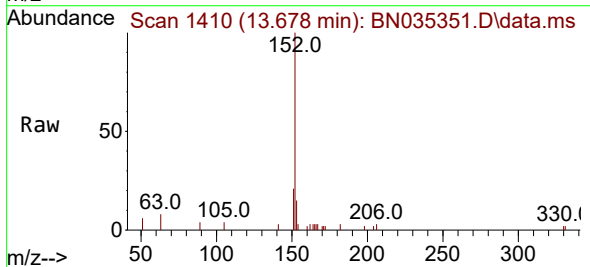
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

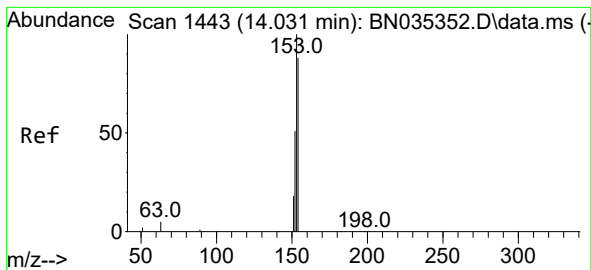
Tgt Ion:	172	Resp:	2838
Ion Ratio	Lower	Upper	
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8



#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

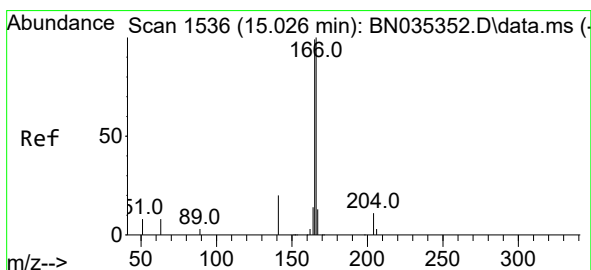
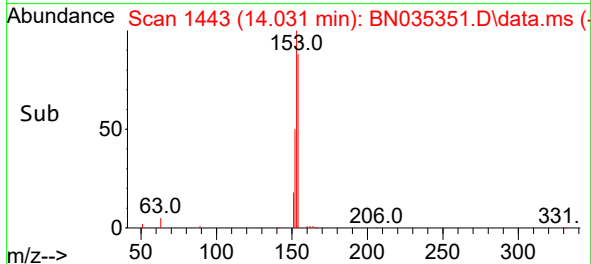
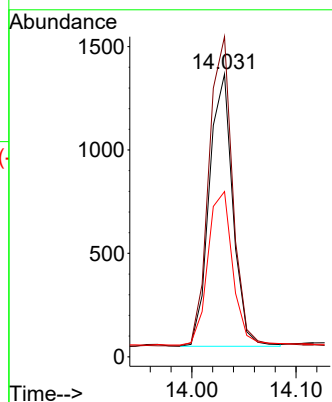
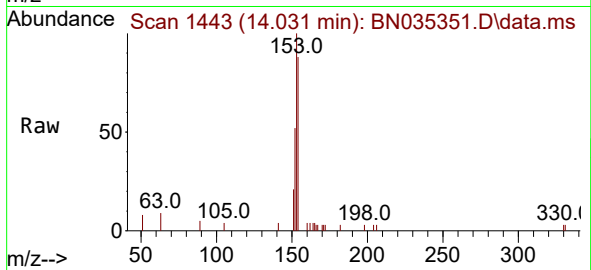
Tgt Ion:154 Resp: 2064

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

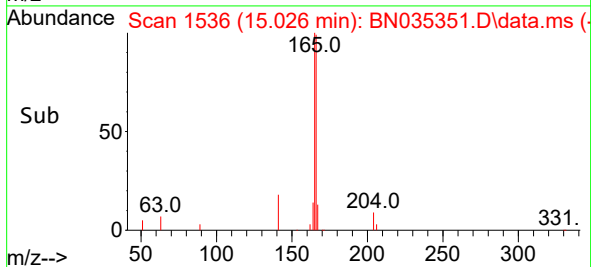
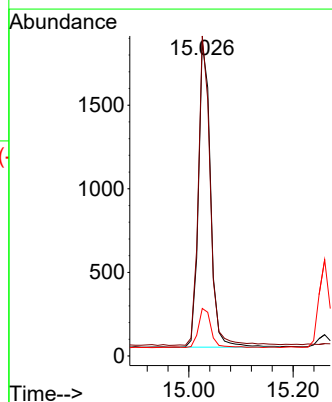
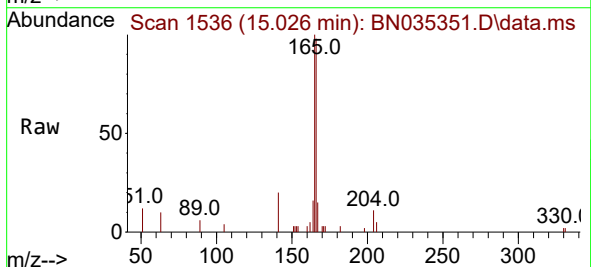
Tgt Ion:166 Resp: 2949

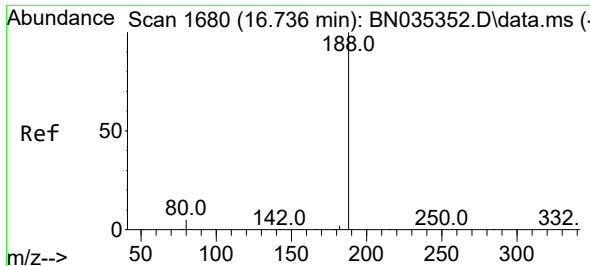
Ion Ratio Lower Upper

166 100

165 99.1 79.7 119.5

167 14.1 10.8 16.2

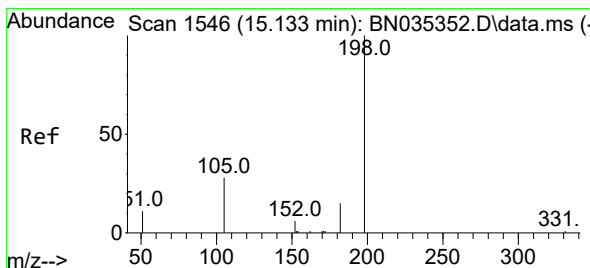
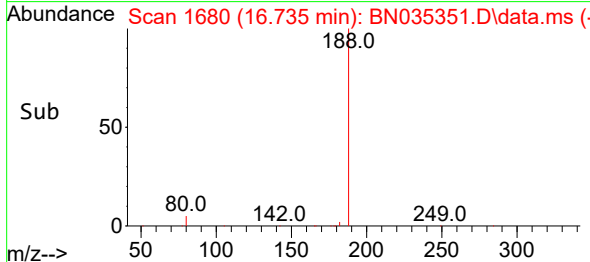
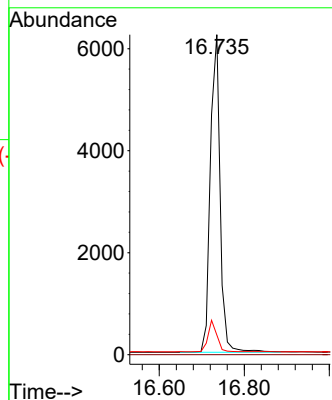
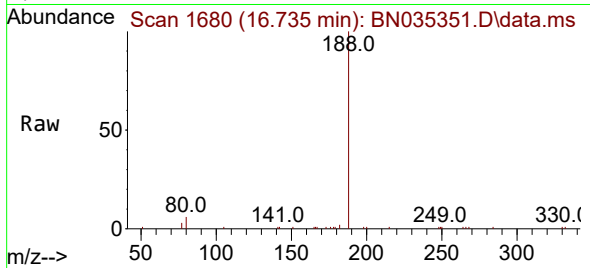




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

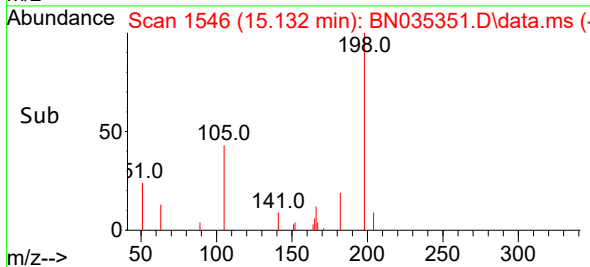
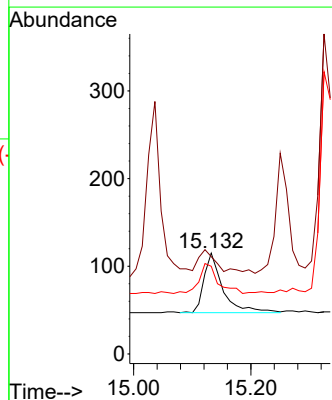
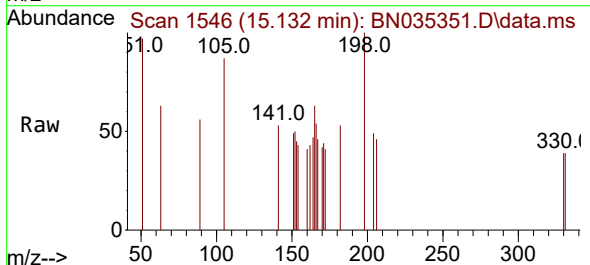
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

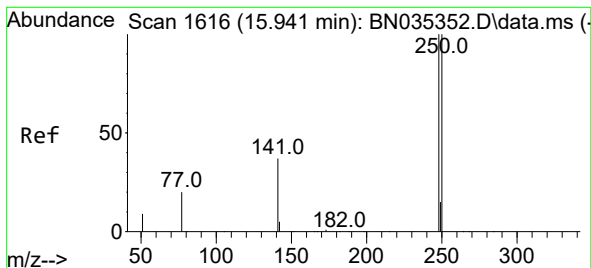
Tgt Ion:188 Resp: 9904
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.2 4.6 6.8



#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#

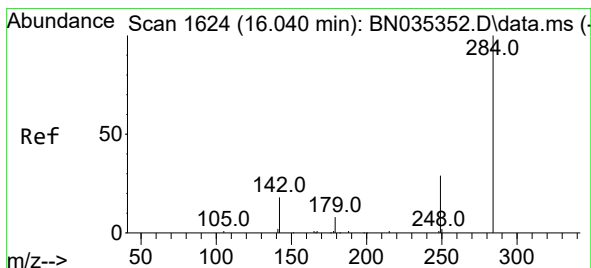
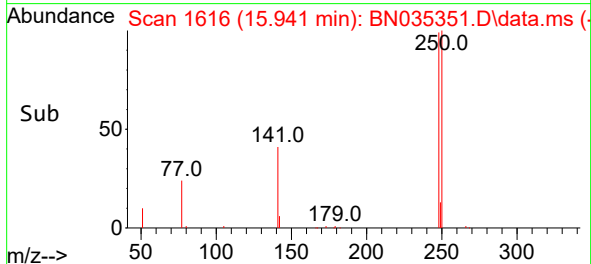
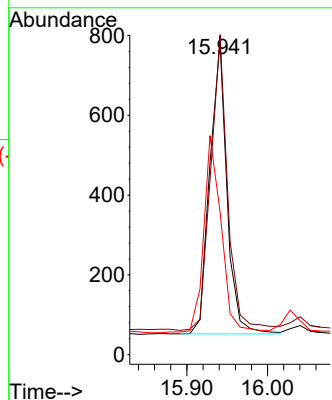
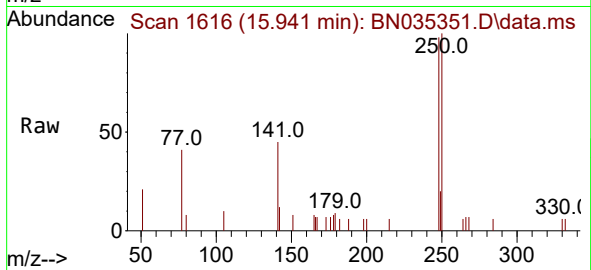




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

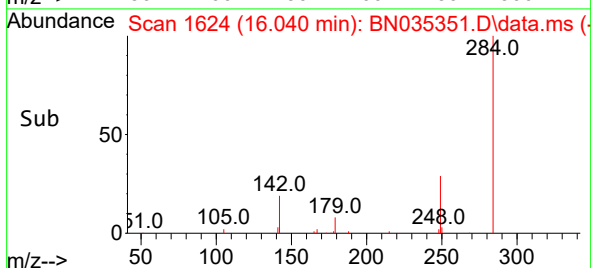
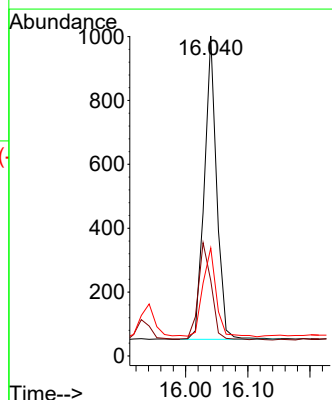
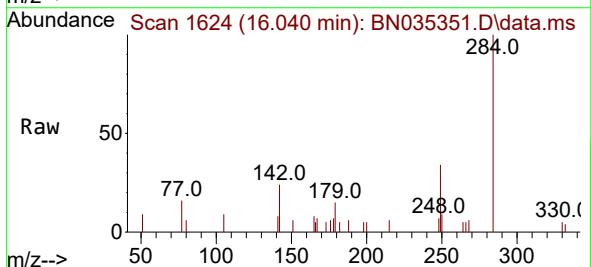
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

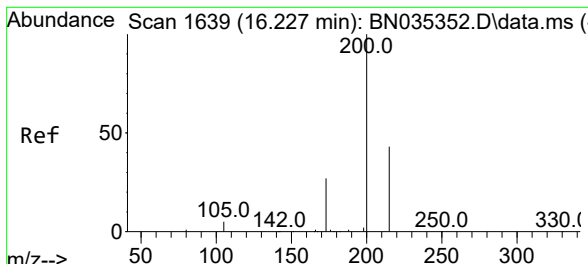
Tgt Ion:248 Resp: 1081
Ion Ratio Lower Upper
248 100
250 102.3 80.6 120.8
141 45.7 31.5 47.3



#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

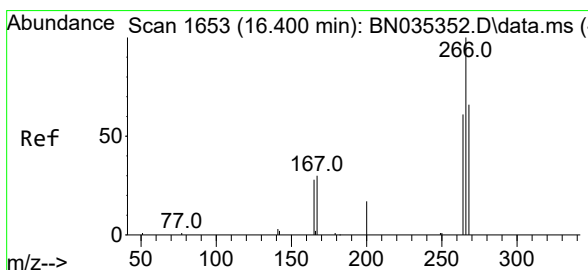
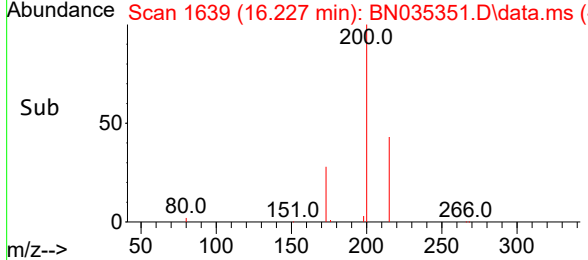
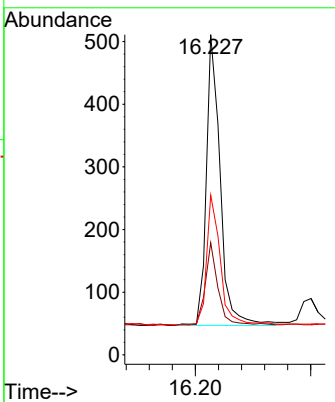
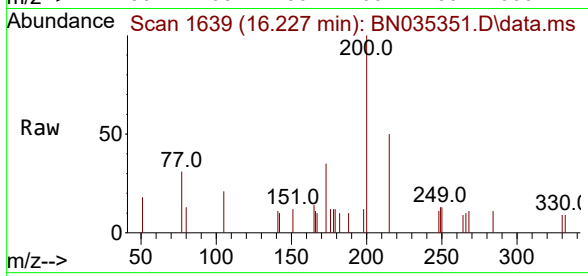




#23
Atrazine
 Concen: 0.136 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

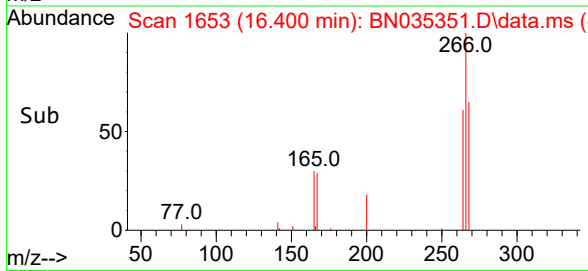
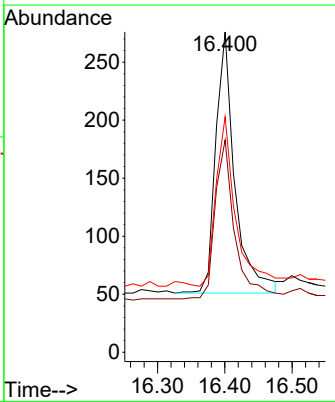
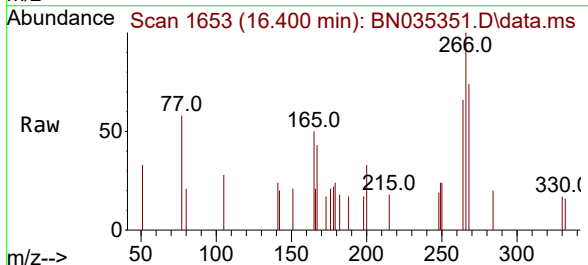
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

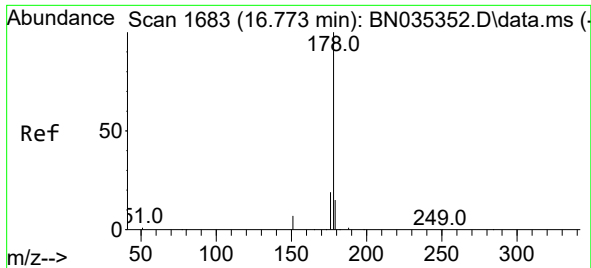
Tgt Ion:	200	Resp:	770
Ion Ratio	Lower	Upper	
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3



#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

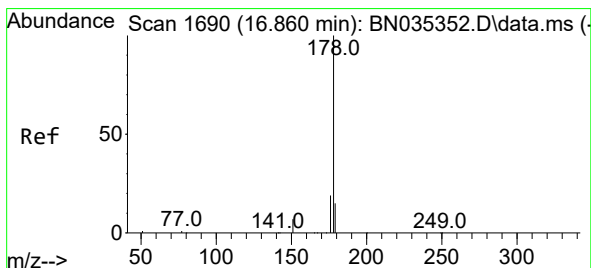
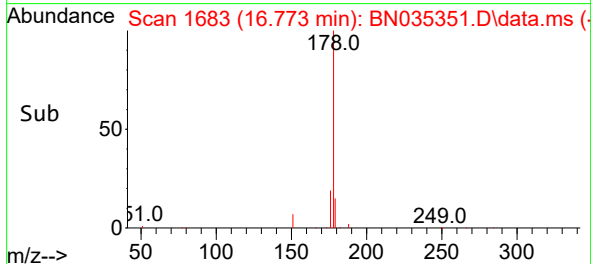
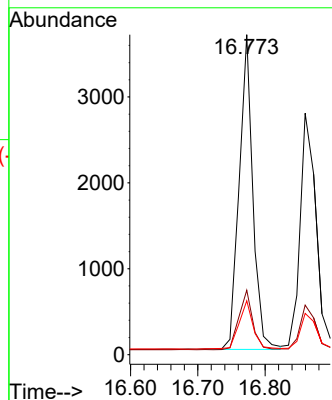
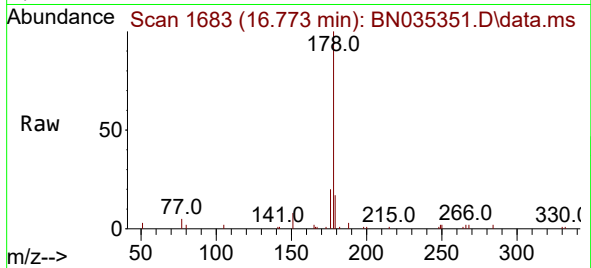




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

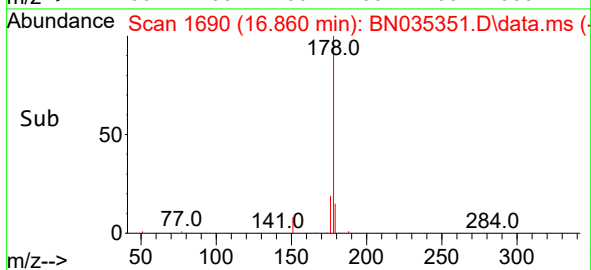
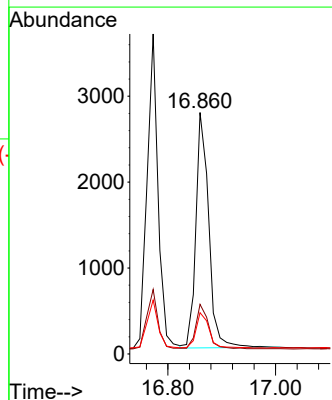
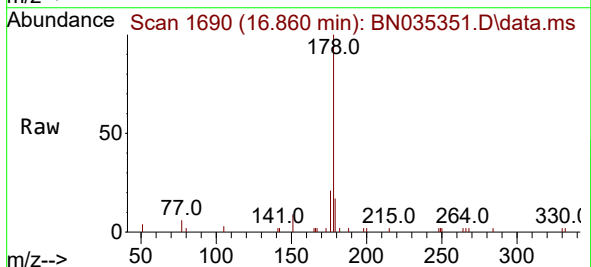
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

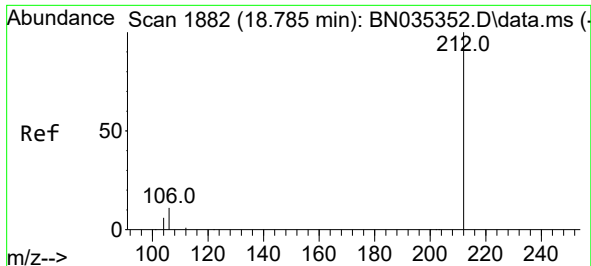
Tgt Ion:178 Resp: 5182
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.9 12.3 18.5



#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

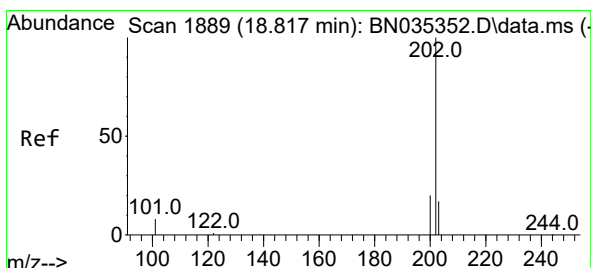
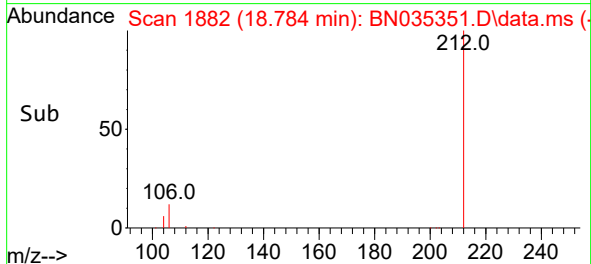
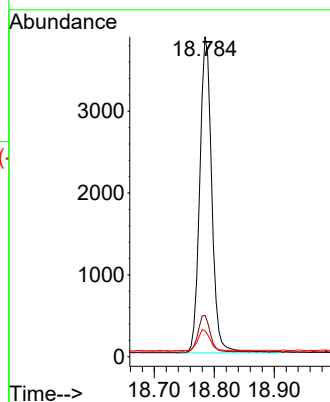
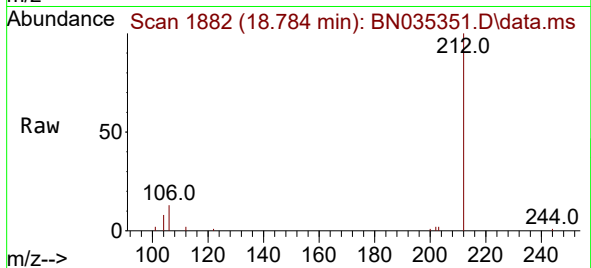
Tgt Ion:212 Resp: 5379

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

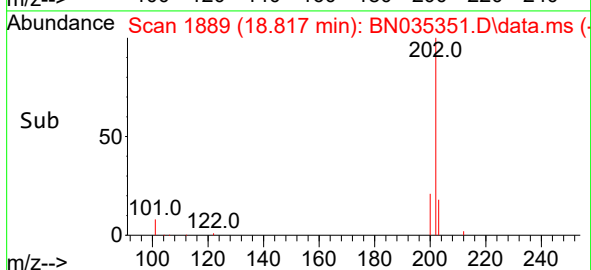
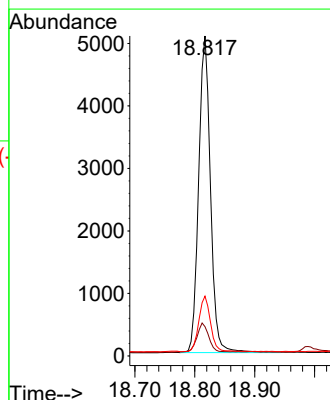
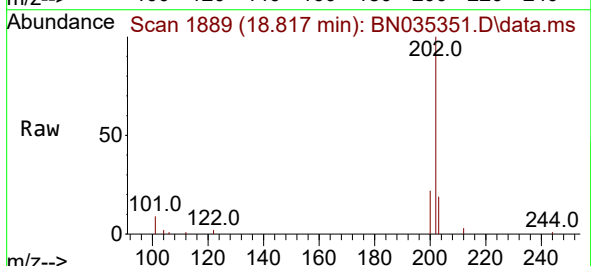
Tgt Ion:202 Resp: 6914

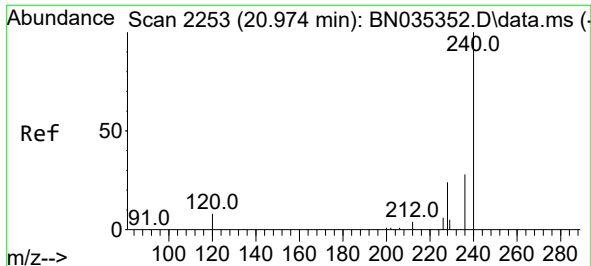
Ion Ratio Lower Upper

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

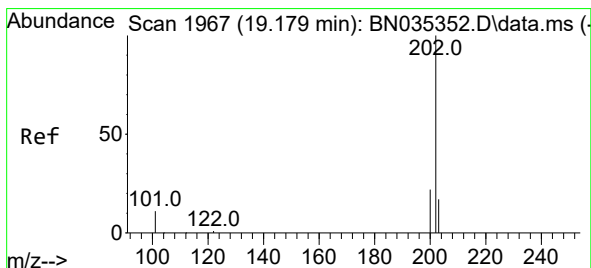
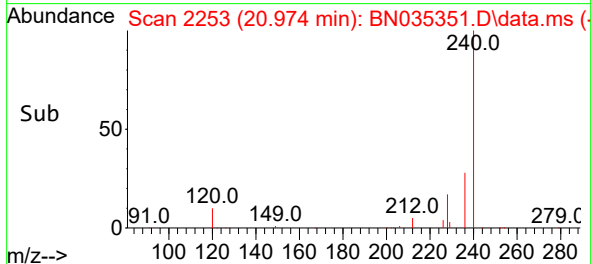
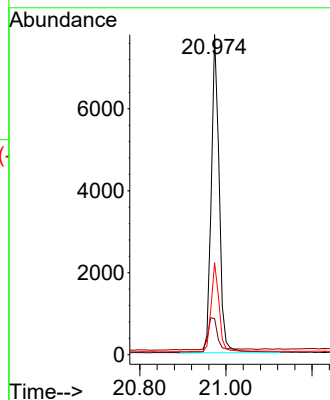
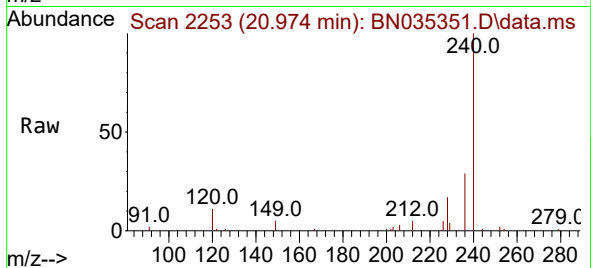
Tgt Ion:240 Resp: 9963

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

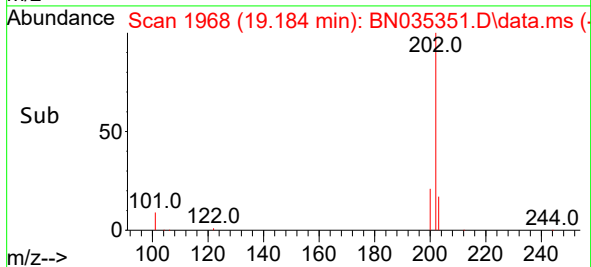
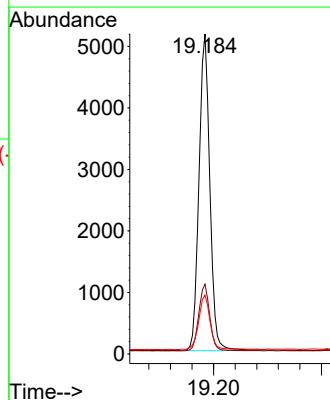
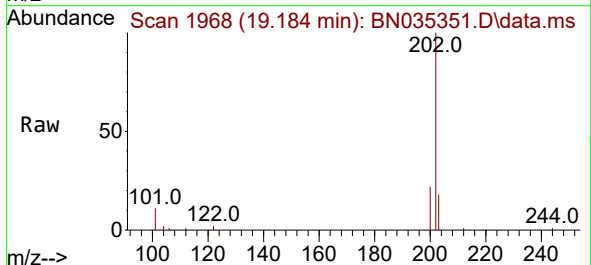
Tgt Ion:202 Resp: 7198

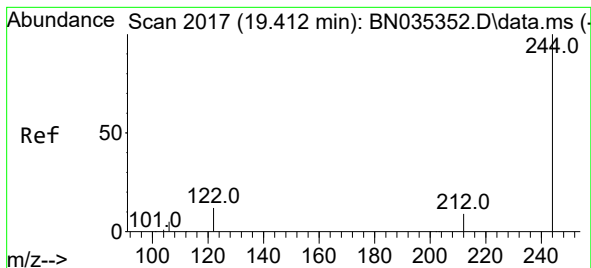
Ion Ratio Lower Upper

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

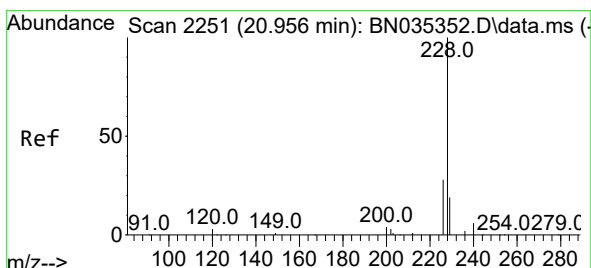
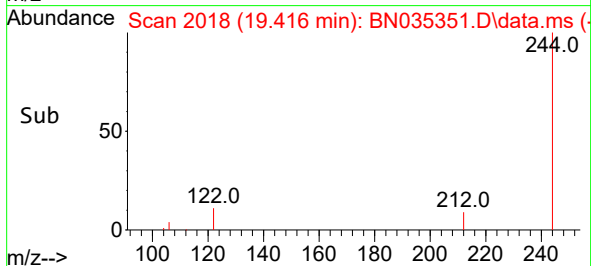
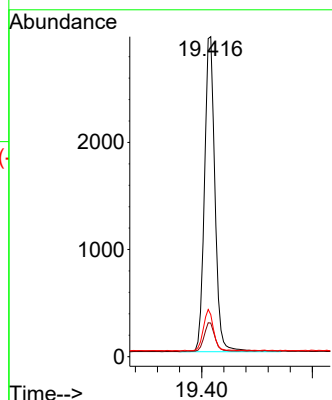
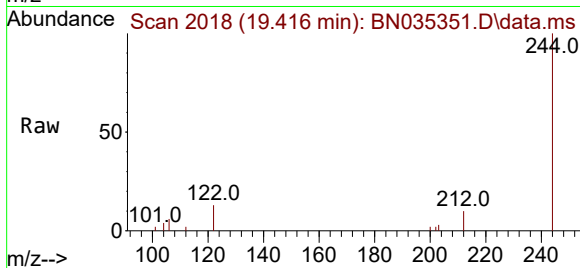
Tgt Ion:244 Resp: 3871

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

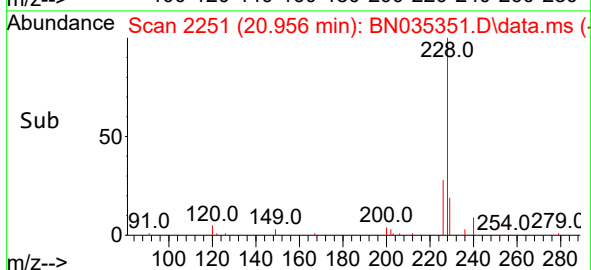
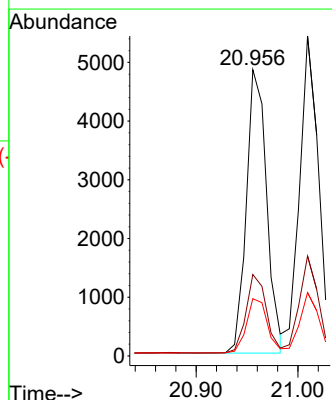
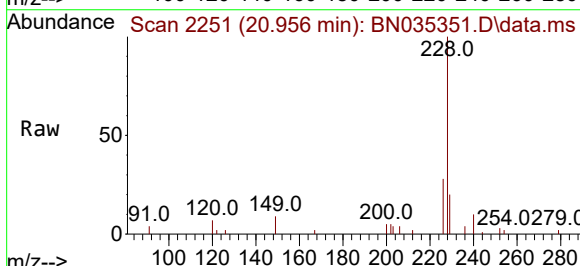
Tgt Ion:228 Resp: 6691

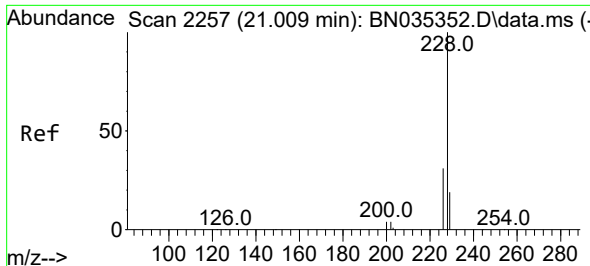
Ion Ratio Lower Upper

228 100

226 28.4 22.5 33.7

229 20.0 15.8 23.8

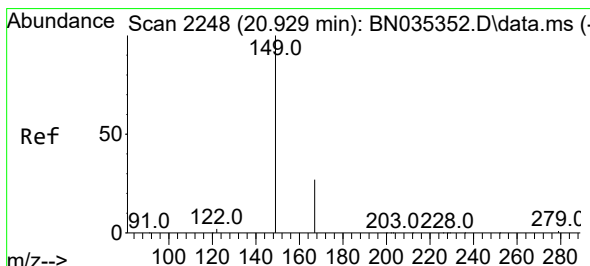
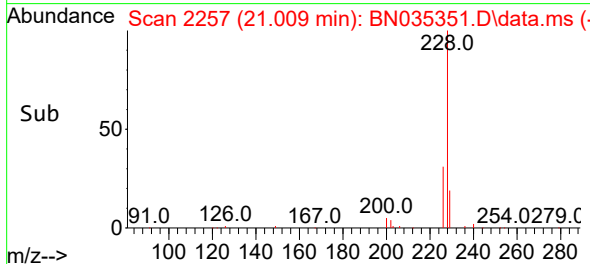
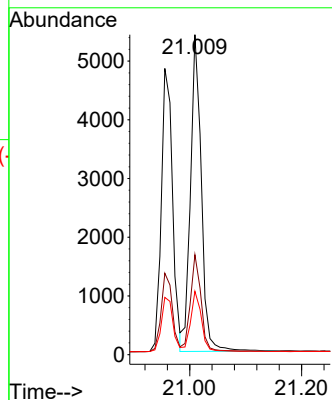
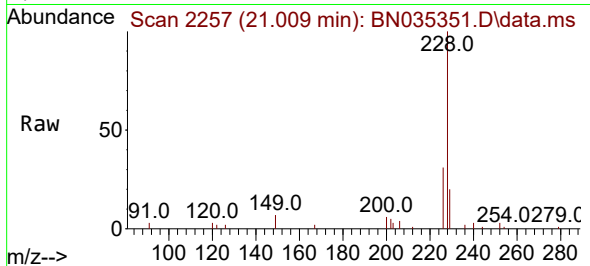




#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

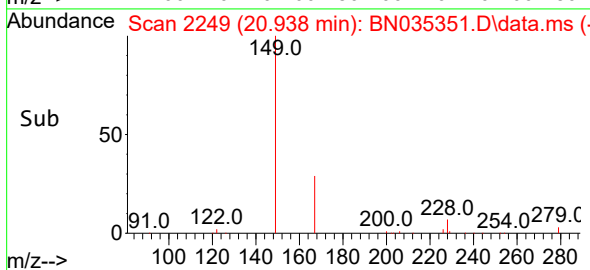
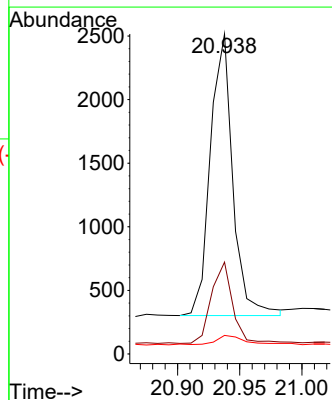
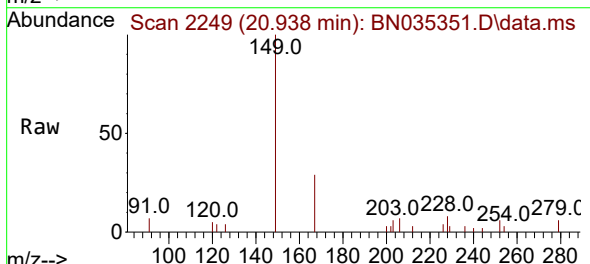
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

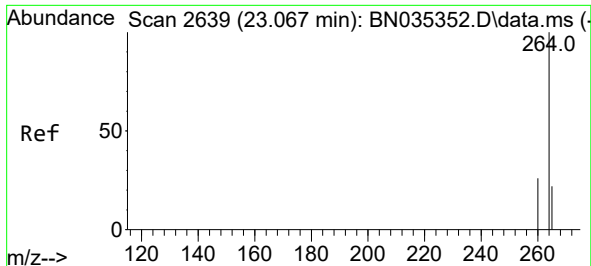
Tgt Ion:228 Resp: 7234
Ion Ratio Lower Upper
228 100
226 31.2 24.6 37.0
229 19.8 15.9 23.9



#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

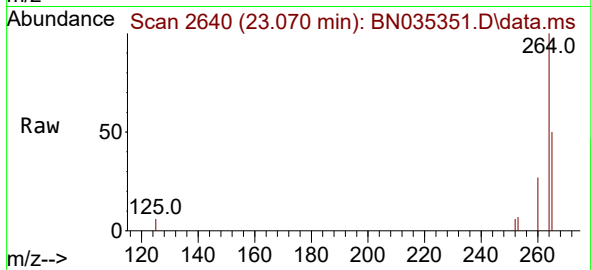
Tgt Ion:149 Resp: 2779
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 4.8 2.7 4.1#



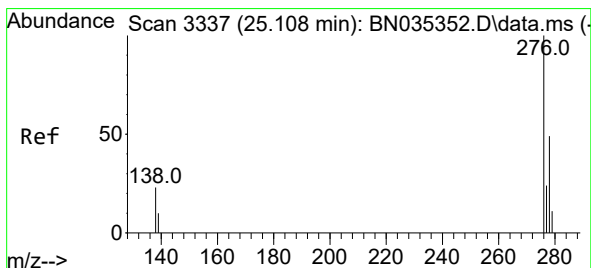
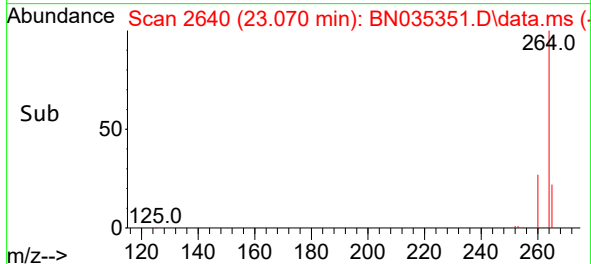
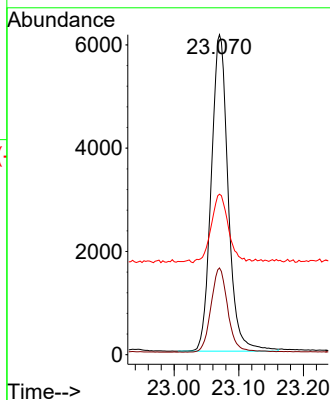


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

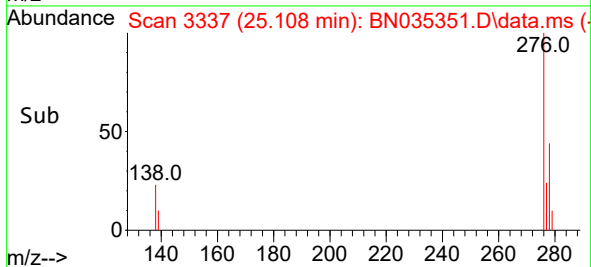
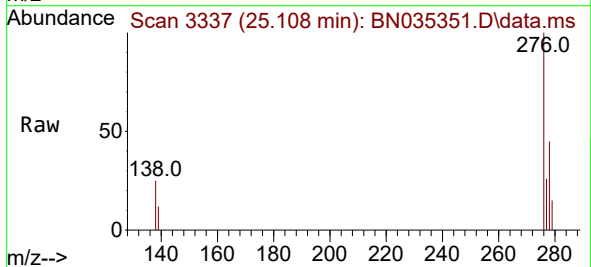
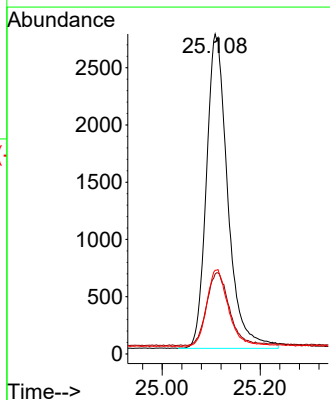


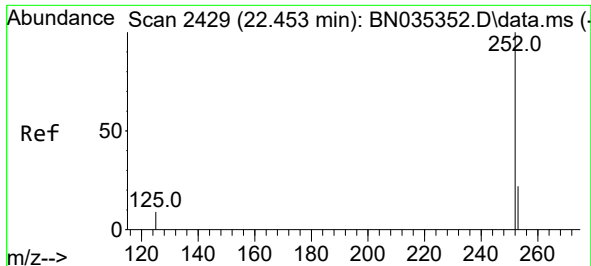
Tgt Ion:264 Resp: 11158
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 50.2 40.2 60.4



#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

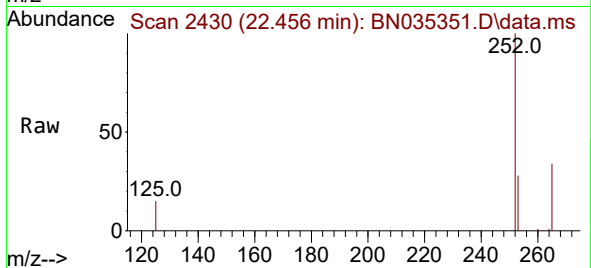
Tgt Ion:276 Resp: 8305
Ion Ratio Lower Upper
276 100
138 24.3 19.4 29.0
277 24.7 19.8 29.6



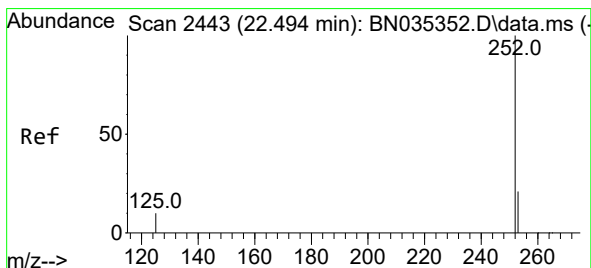
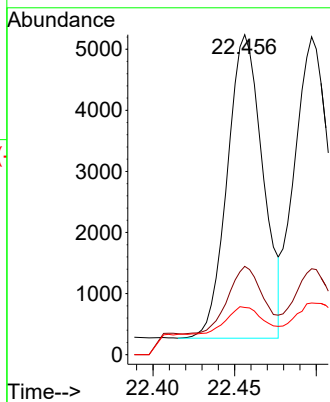
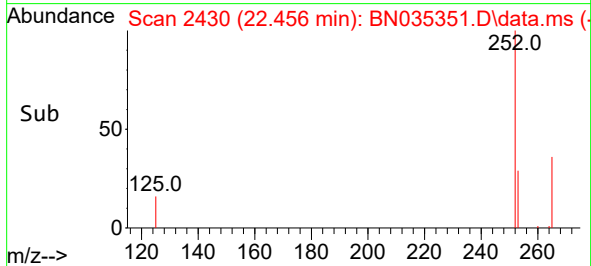


#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

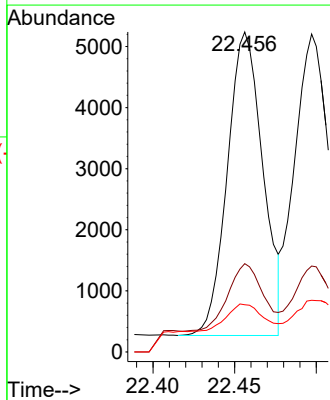
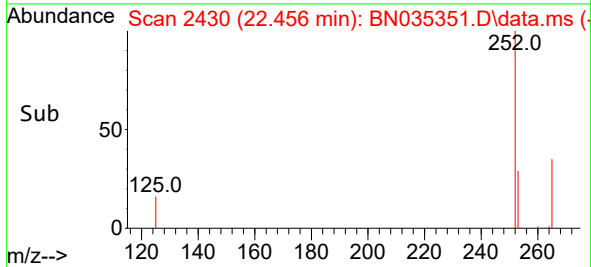
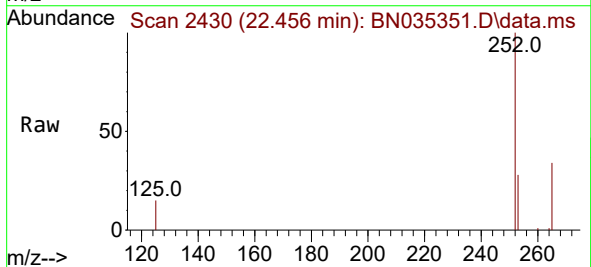


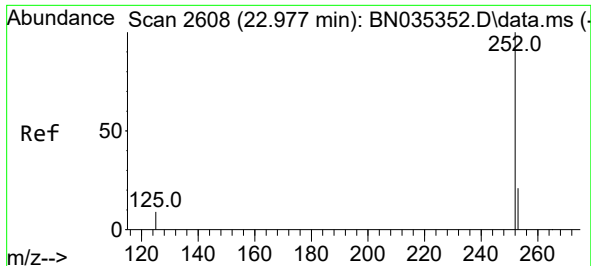
Tgt Ion:252 Resp: 7522
Ion Ratio Lower Upper
252 100
253 27.6 19.6 29.4
125 14.8 9.6 14.4#



#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

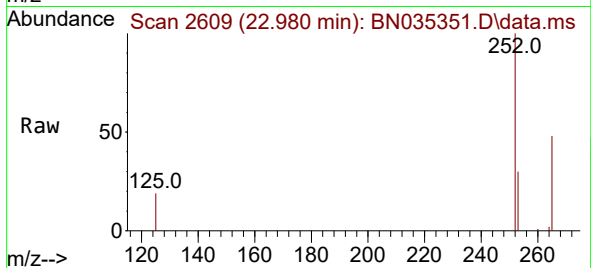
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



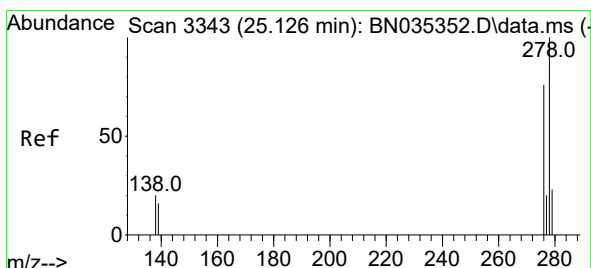
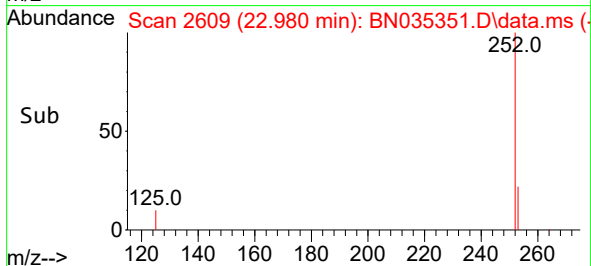
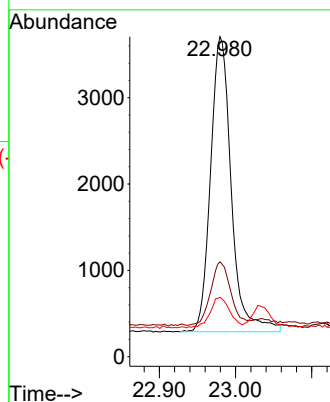
Tgt Ion:252 Resp: 6450

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

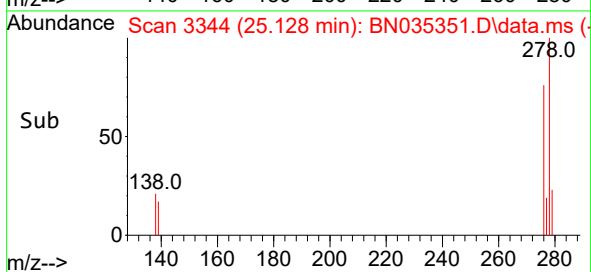
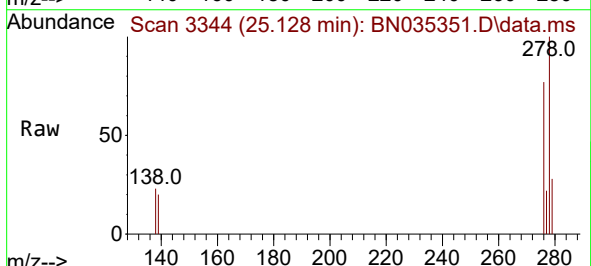
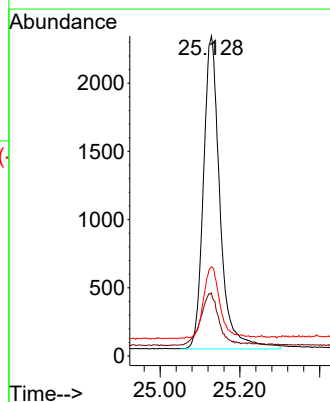
Tgt Ion:278 Resp: 6620

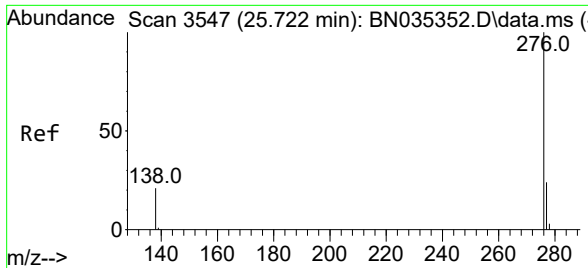
Ion Ratio Lower Upper

278 100

139 19.7 14.2 21.4

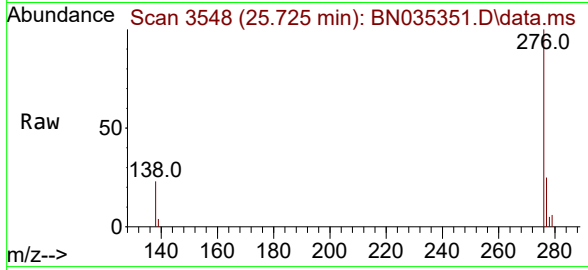
279 27.9 20.5 30.7





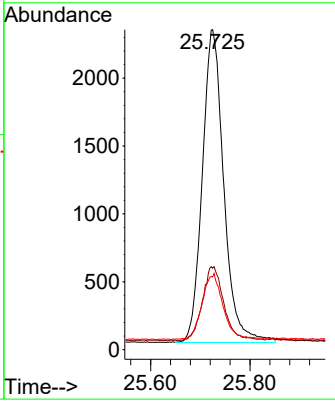
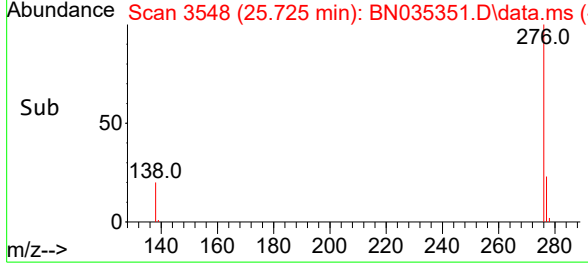
#41
 Benzo(g,h,i)perylene
 Concen: 0.184 ng
 RT: 25.725 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

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

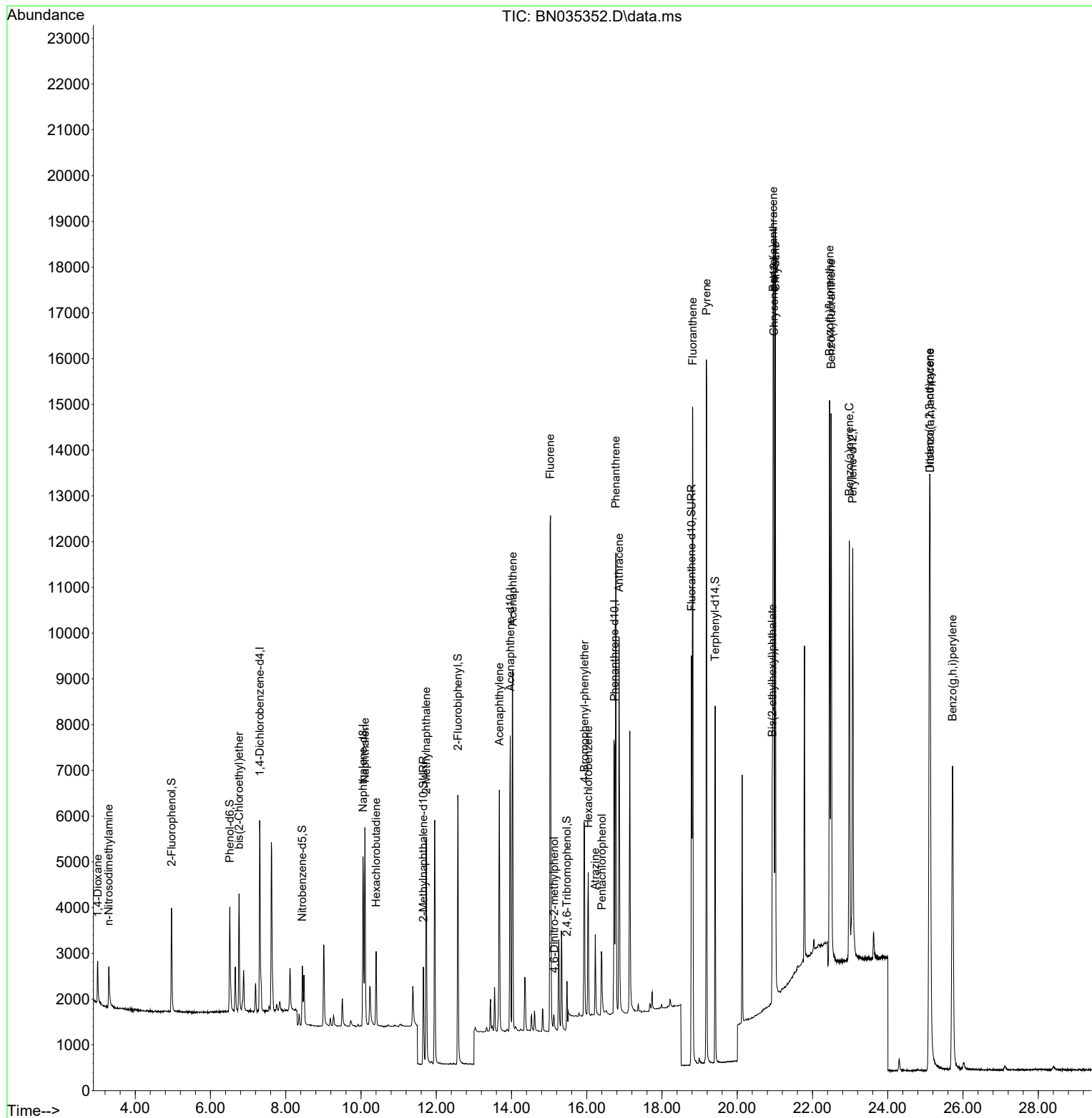
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng	0.00
29) Chrysene-d12	20.974	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

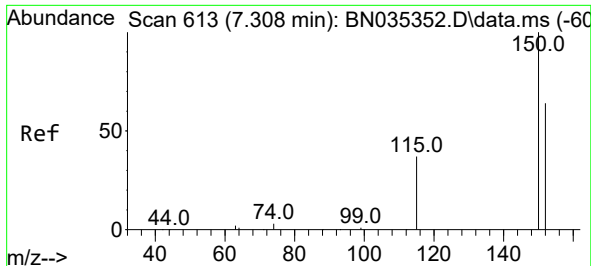
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

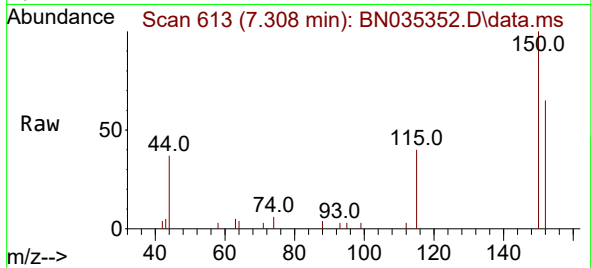
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



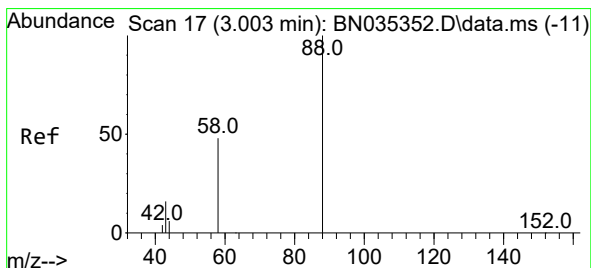
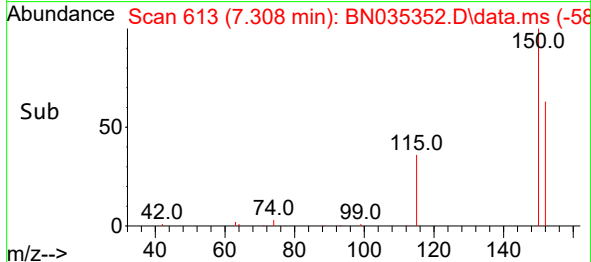
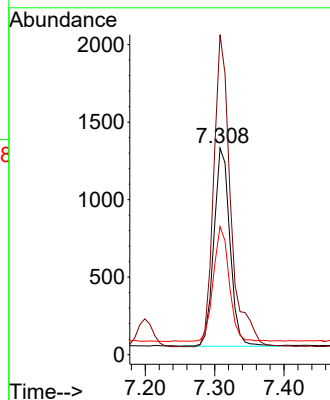


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

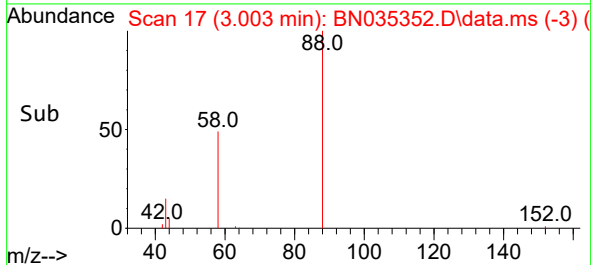
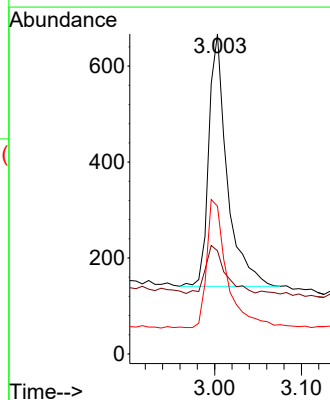
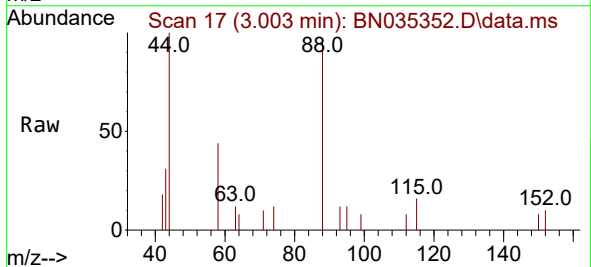


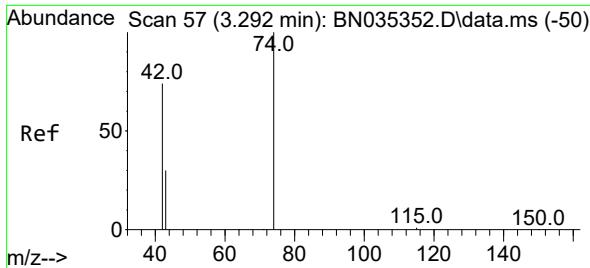
Tgt Ion:152 Resp: 2048
Ion Ratio Lower Upper
152 100
150 155.0 124.0 186.0
115 62.0 49.6 74.4



#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

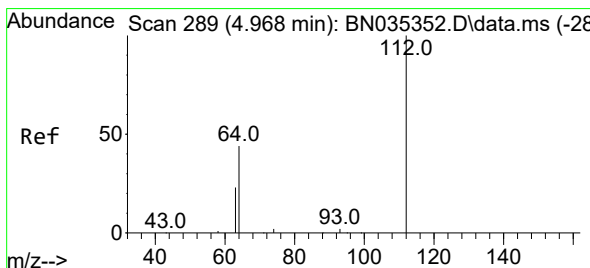
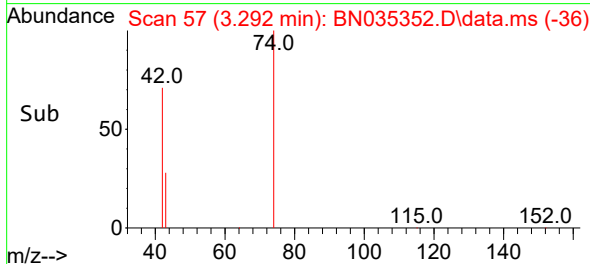
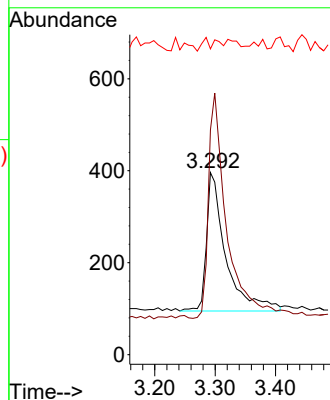
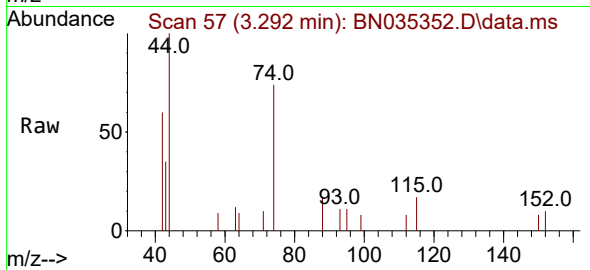




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

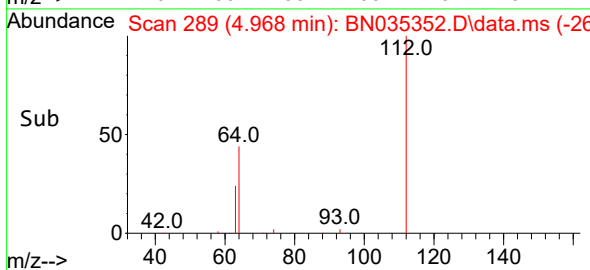
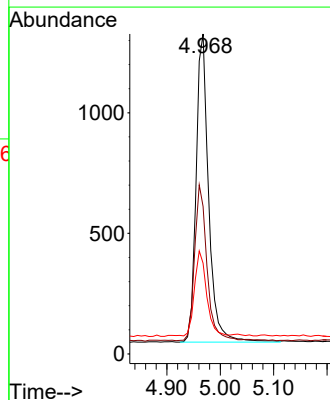
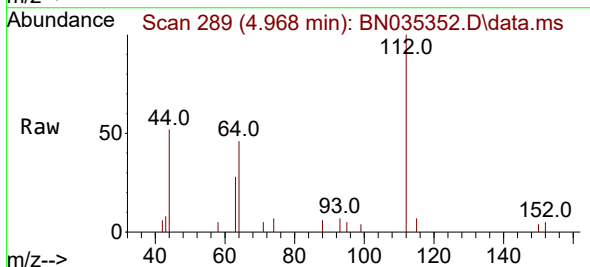
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

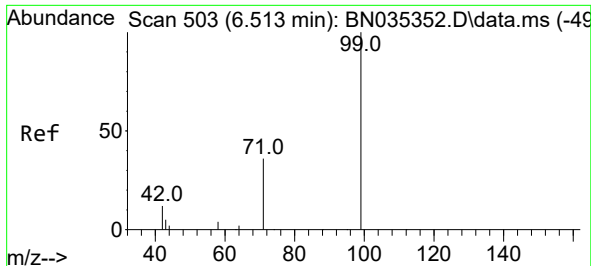
Tgt Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
74 156.1 124.9 187.3
44 2.8 2.2 3.4



#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

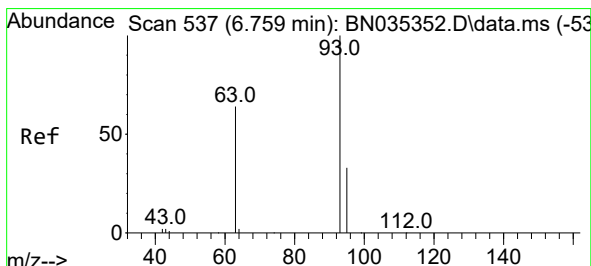
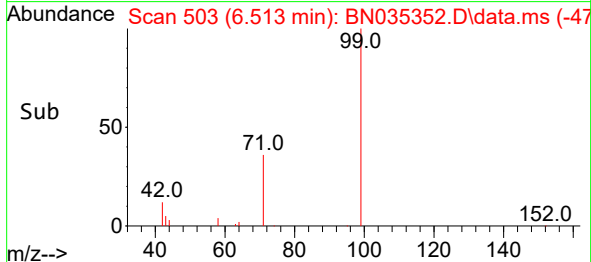
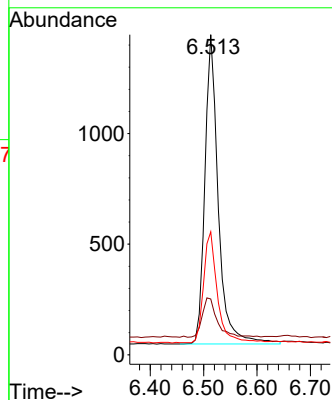
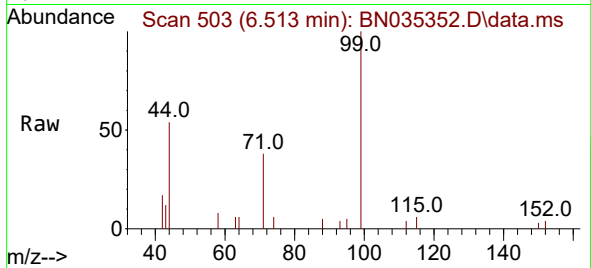




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

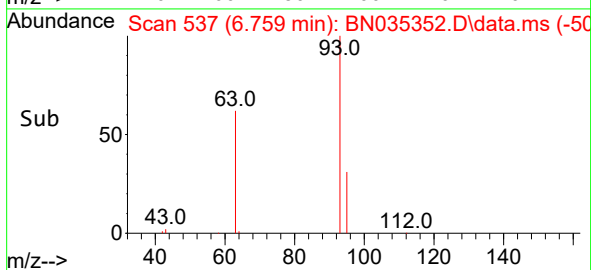
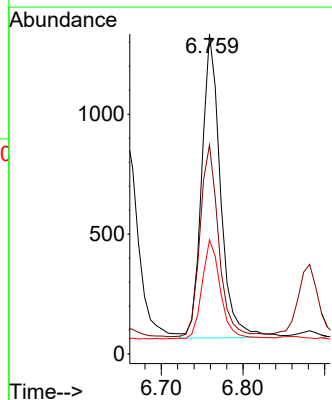
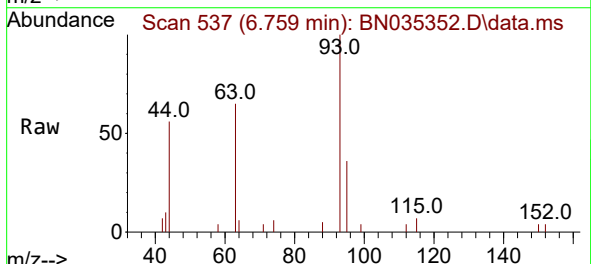
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

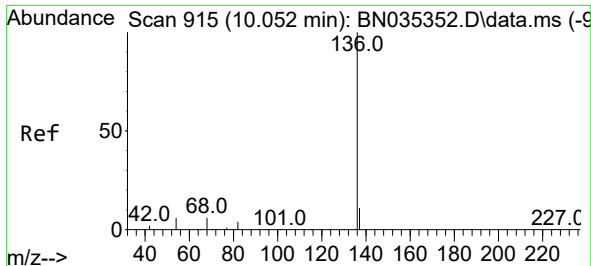
Tgt Ion:	99	Resp:	2444
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9



#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

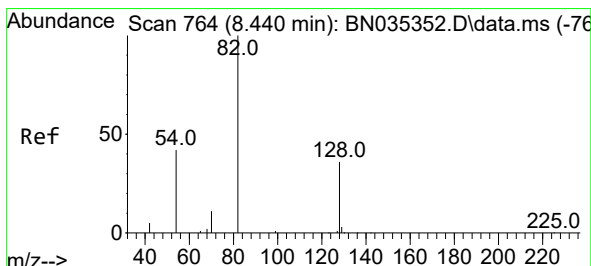
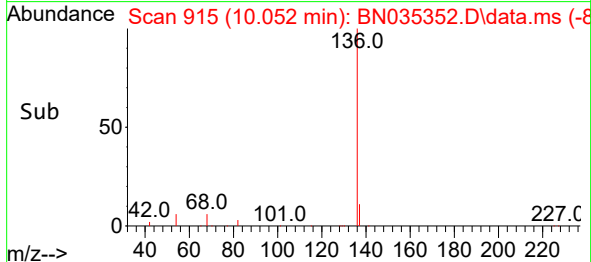
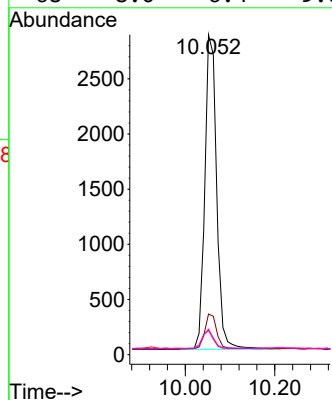
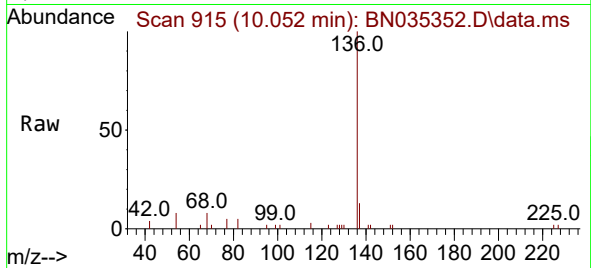




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

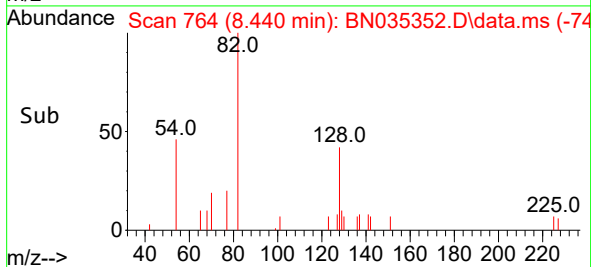
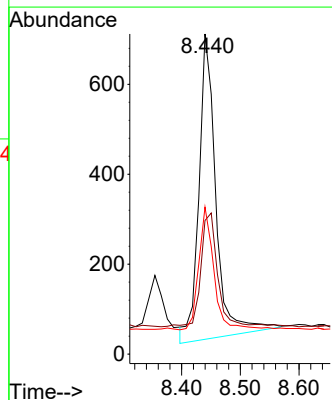
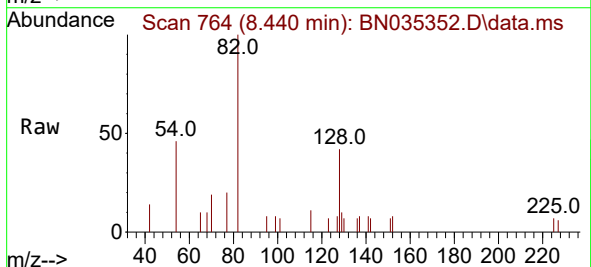
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

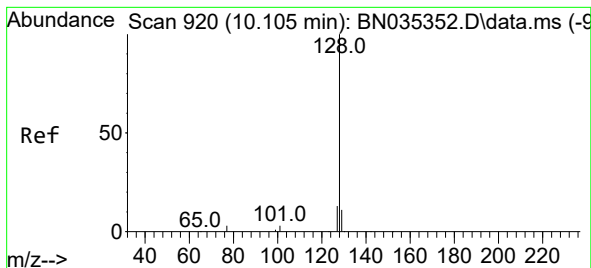
Tgt Ion:	136	Resp:	5229
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6



#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

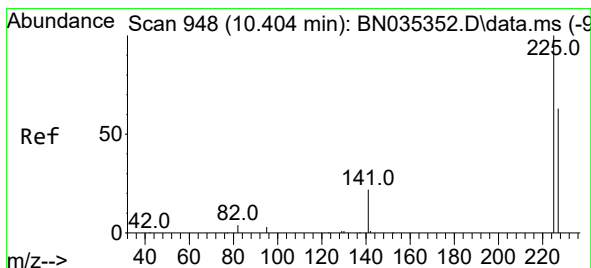
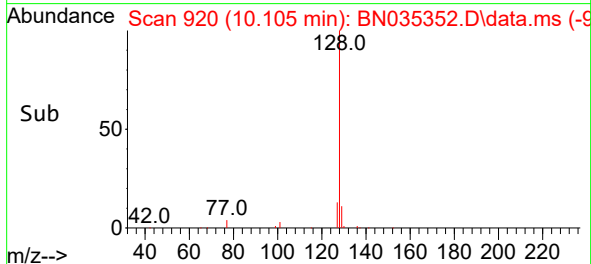
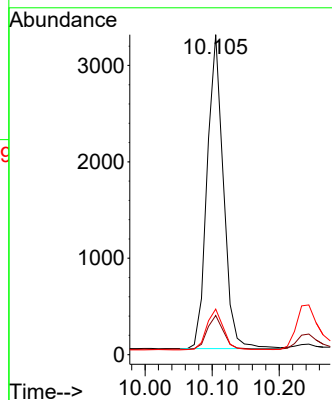
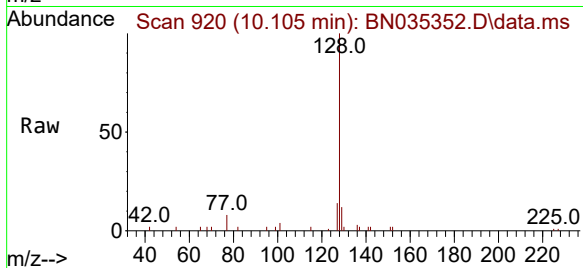
Tgt Ion:128 Resp: 5475

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

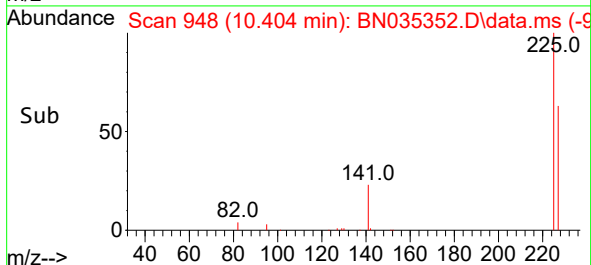
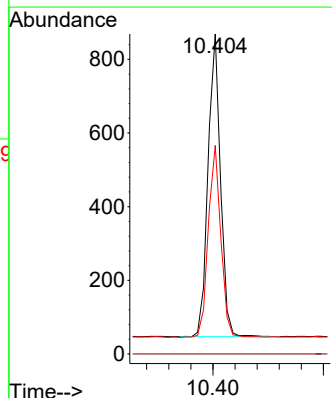
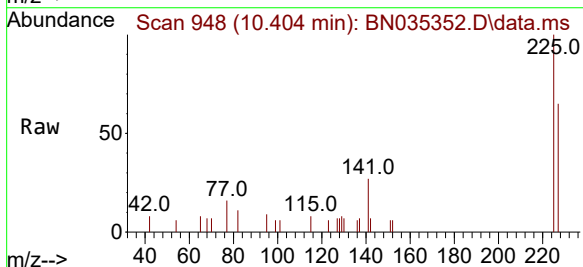
Tgt Ion:225 Resp: 1292

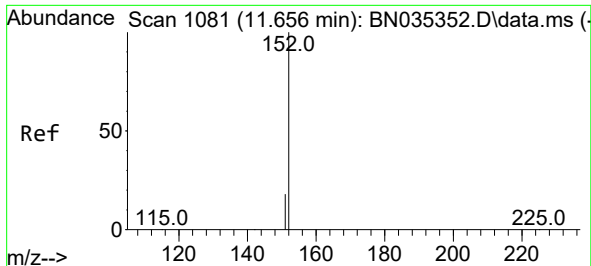
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

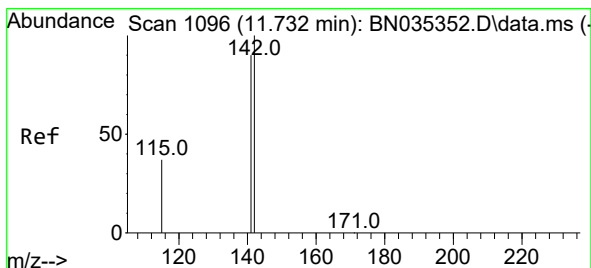
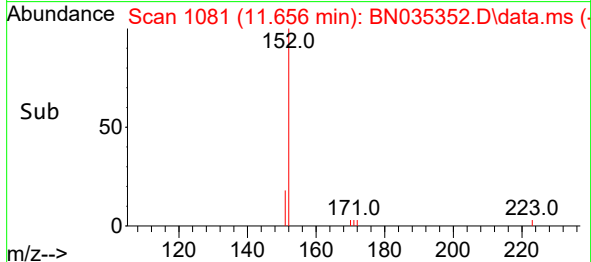
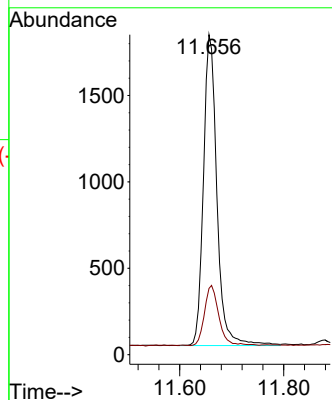
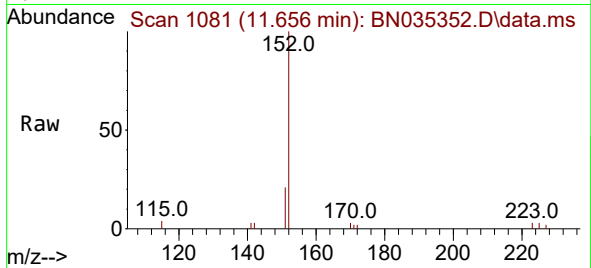




#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

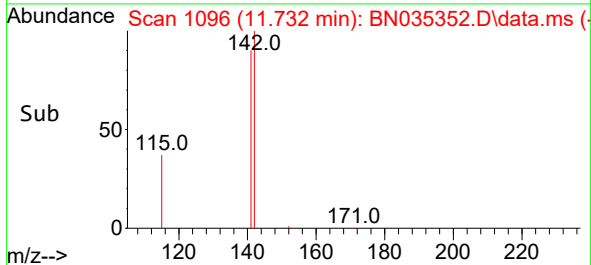
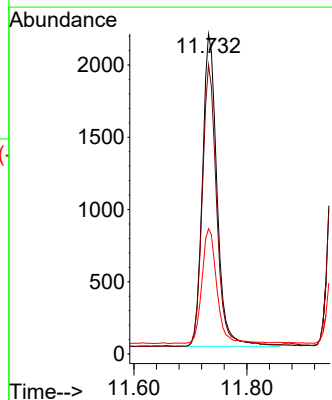
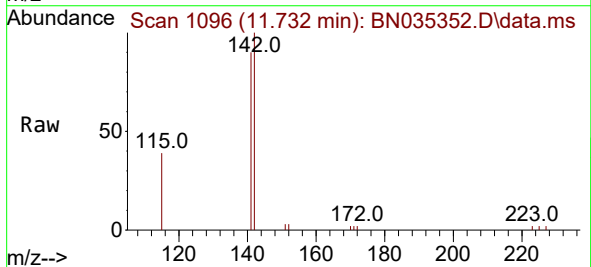
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

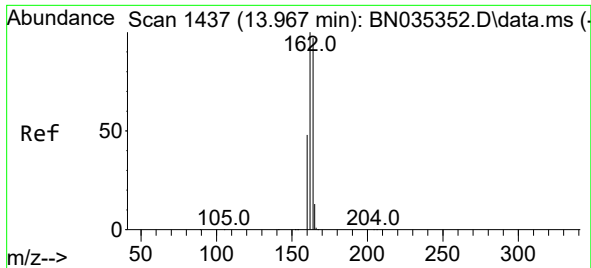
Tgt Ion:152 Resp: 3237
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

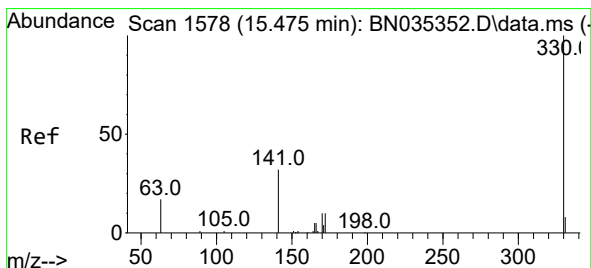
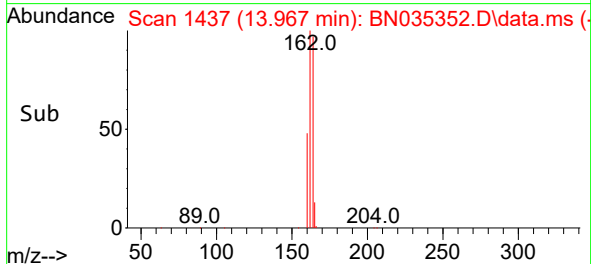
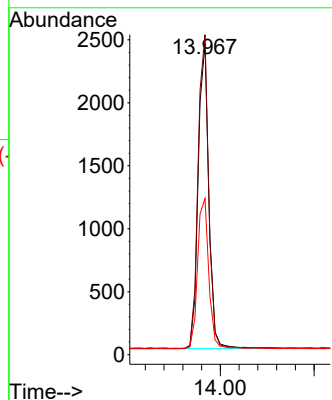
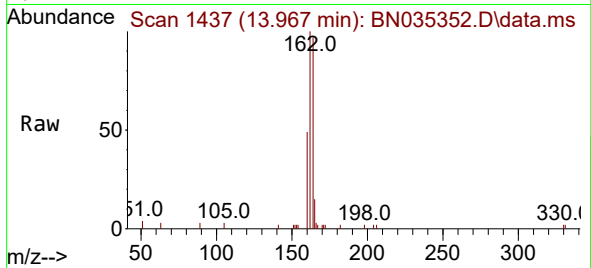




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

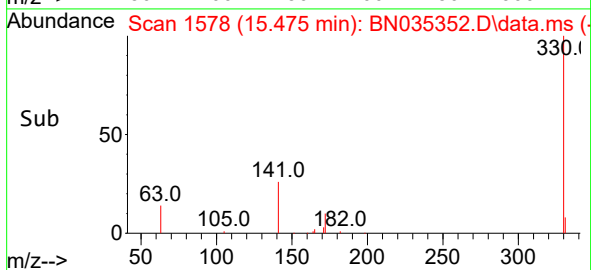
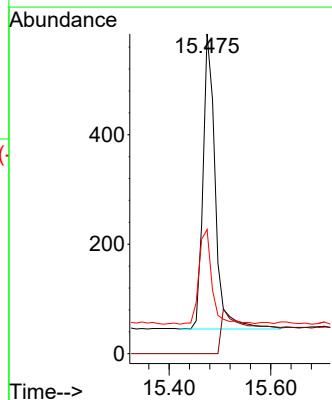
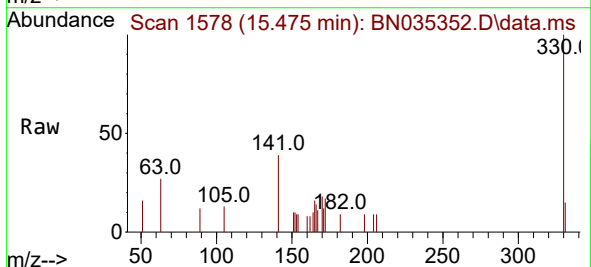
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

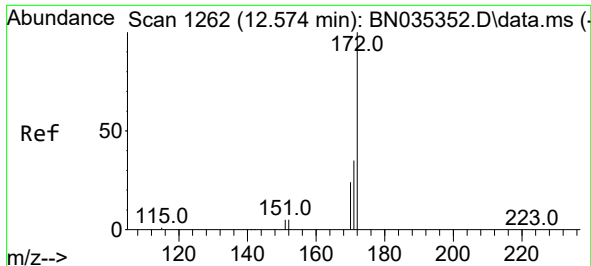
Tgt Ion:164 Resp: 3799
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 50.1 40.1 60.1



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

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

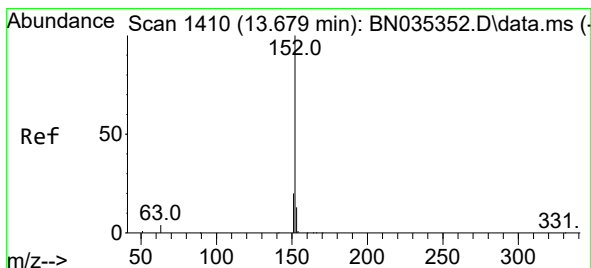
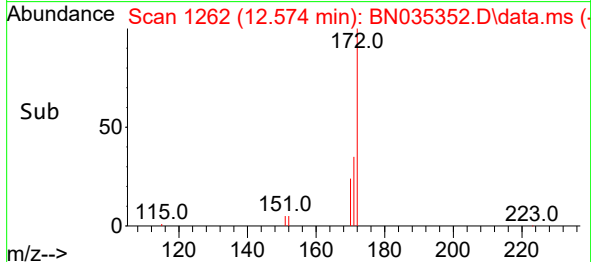
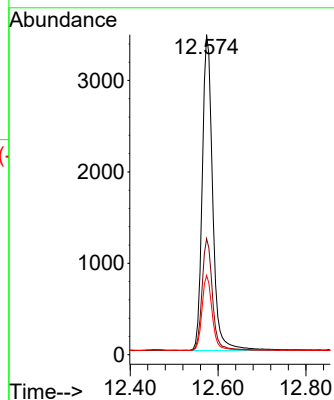
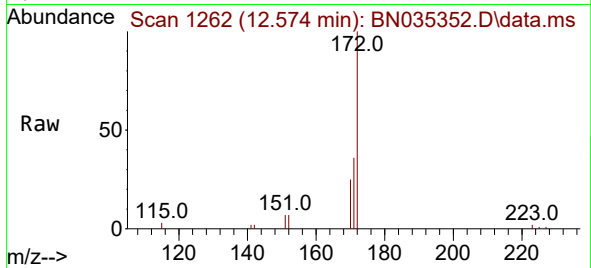




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

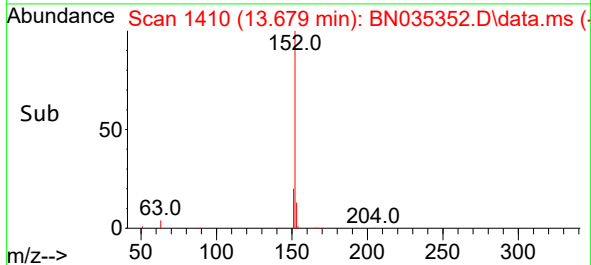
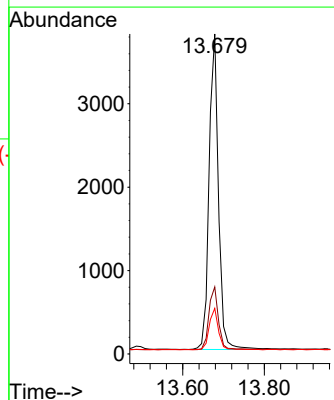
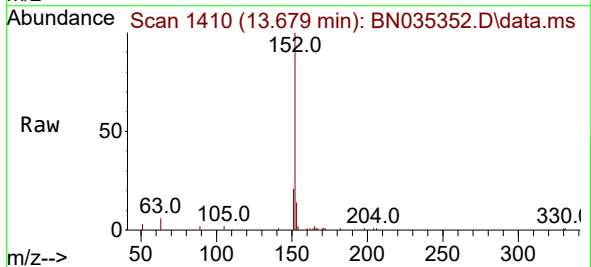
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

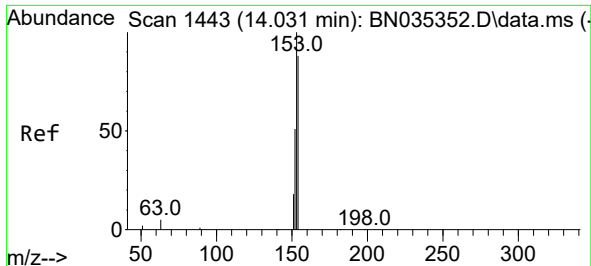
Tgt Ion:	172	Resp:	5735
Ion Ratio	Lower	Upper	
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8



#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

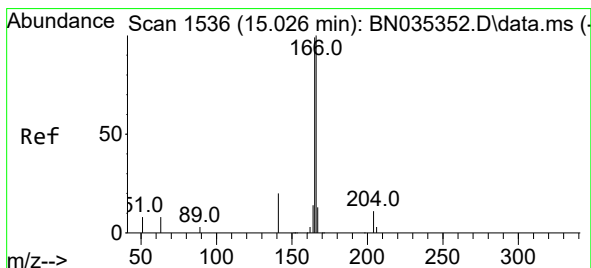
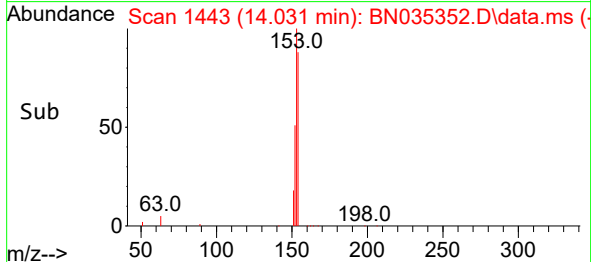
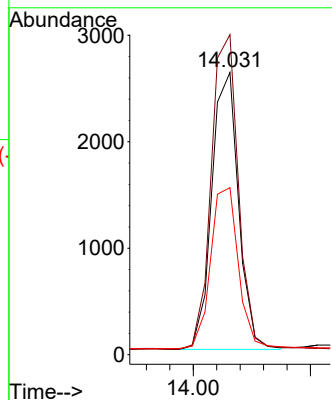
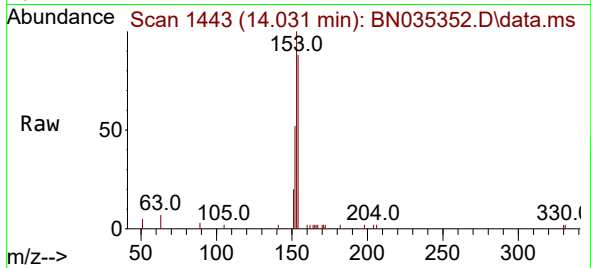




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

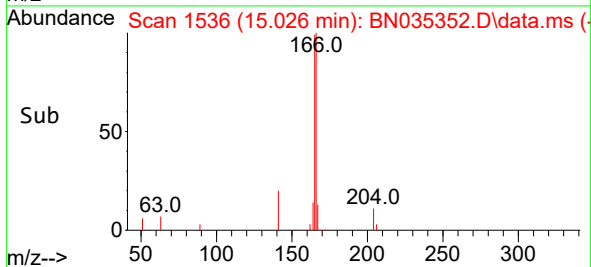
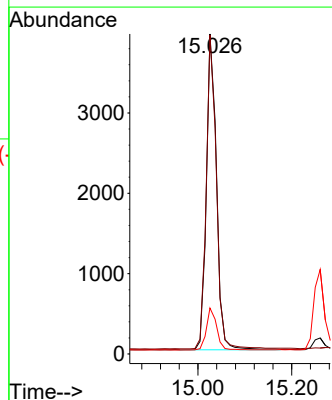
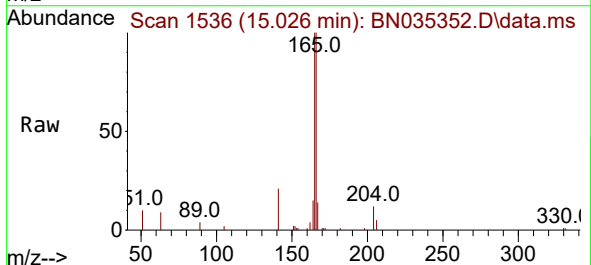
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

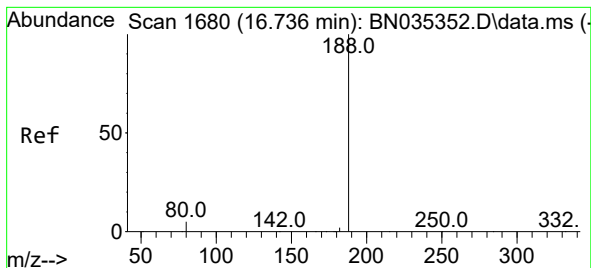
Tgt Ion:154	Resp:	4125
Ion	Ratio	Lower Upper
154	100	
153	115.8	92.6 139.0
152	61.3	49.0 73.6



#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

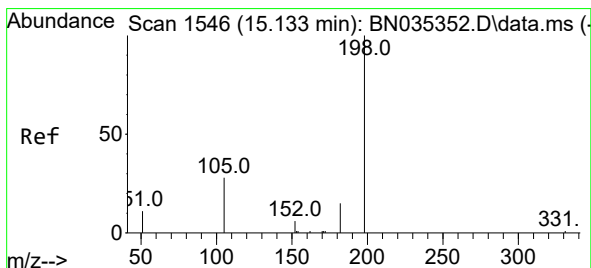
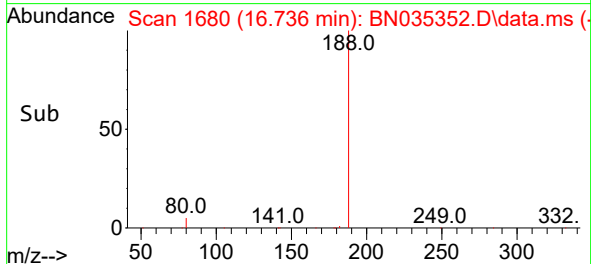
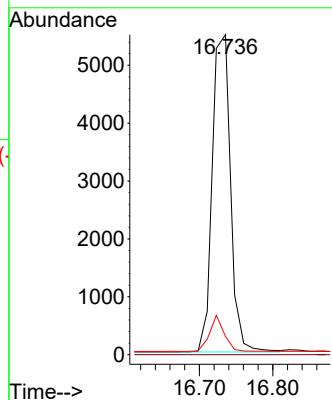
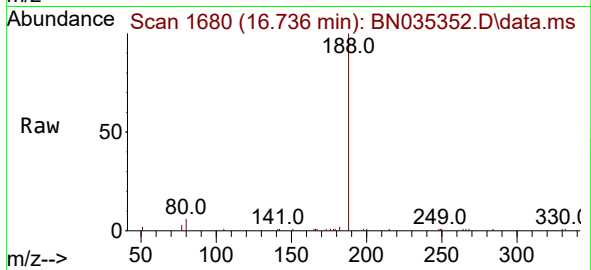




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

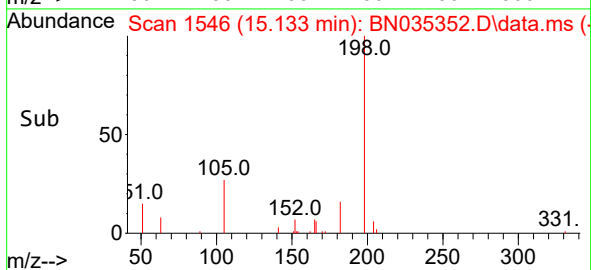
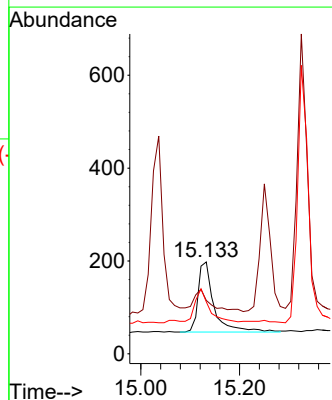
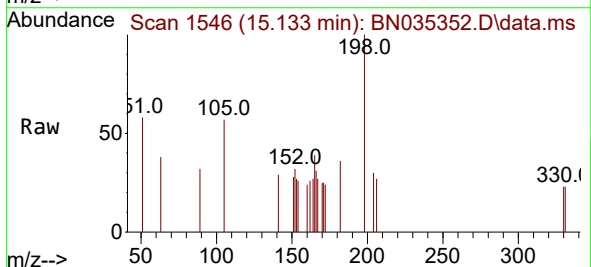
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

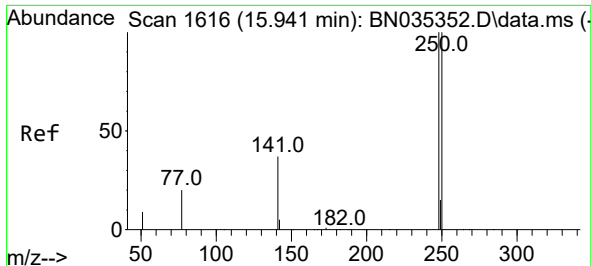
Tgt Ion:188 Resp: 9490
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.7 4.6 6.8



#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

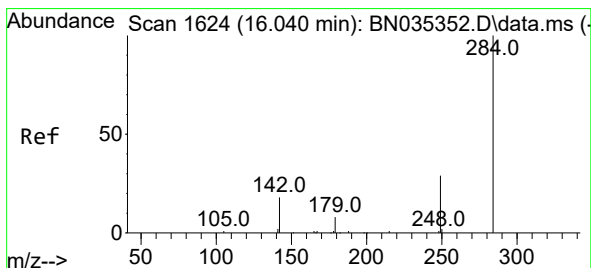
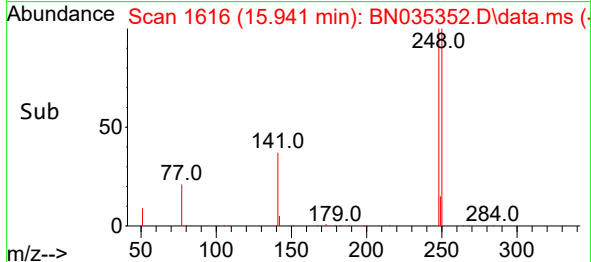
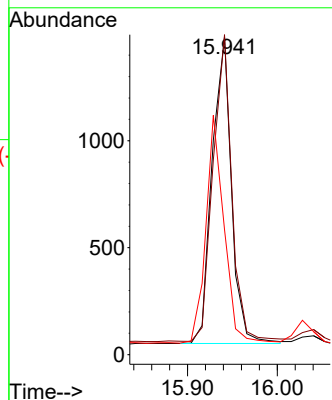
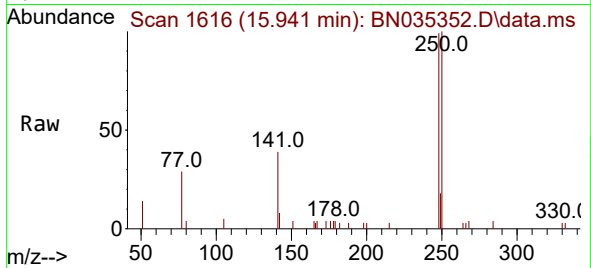




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

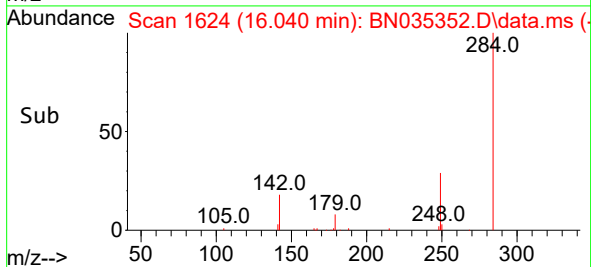
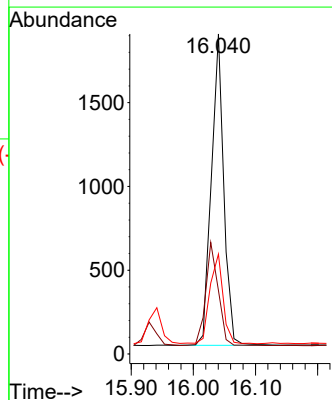
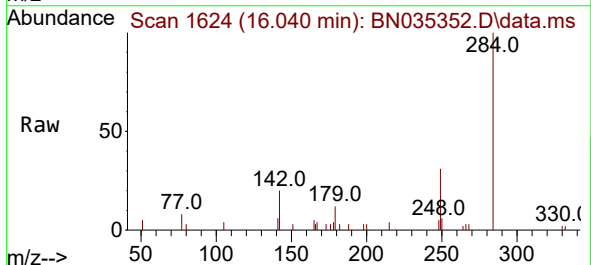
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

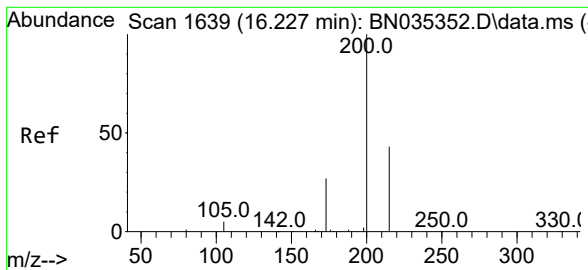
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3



#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	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8

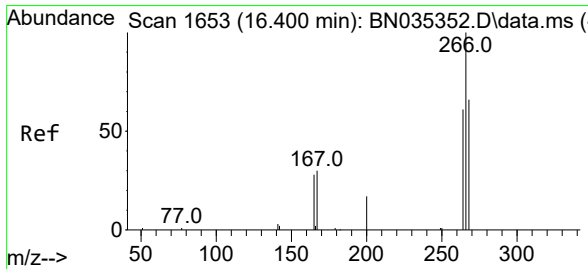
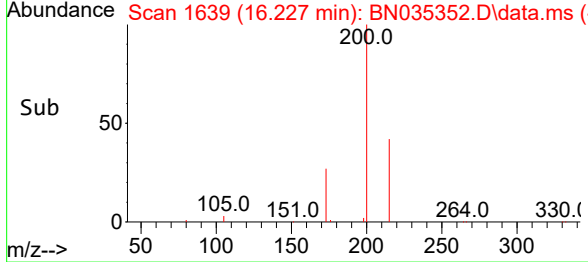
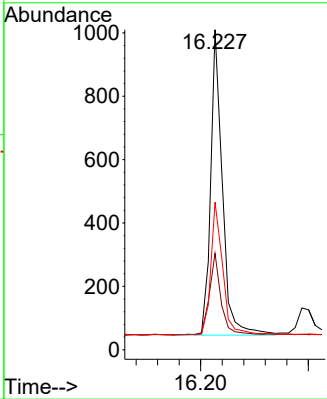
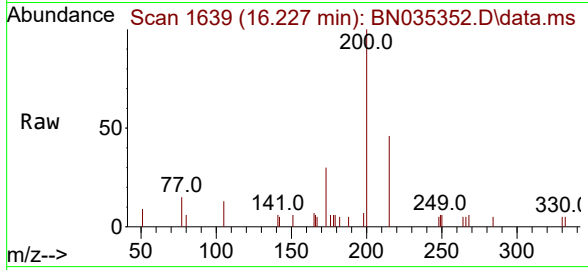




#23
 Atrazine
 Concen: 0.269 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

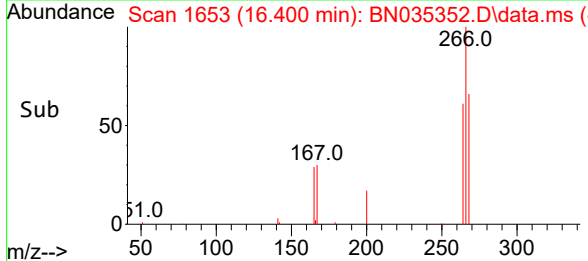
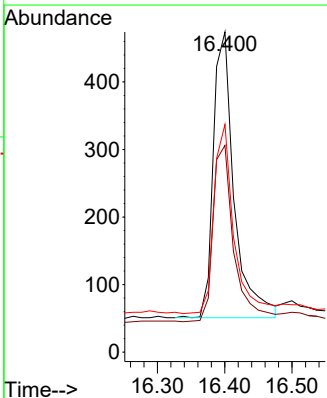
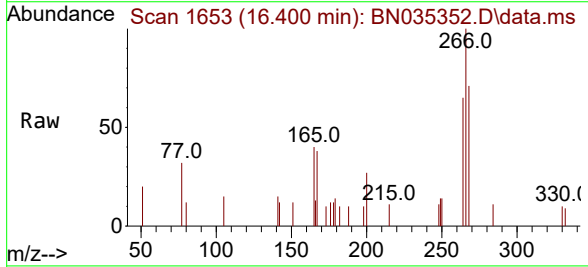
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

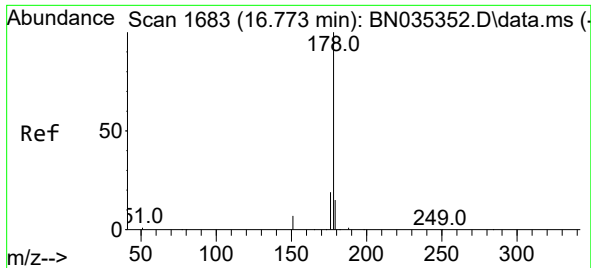
Tgt Ion:	200	Resp:	1461
Ion Ratio	Lower	Upper	
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3



#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

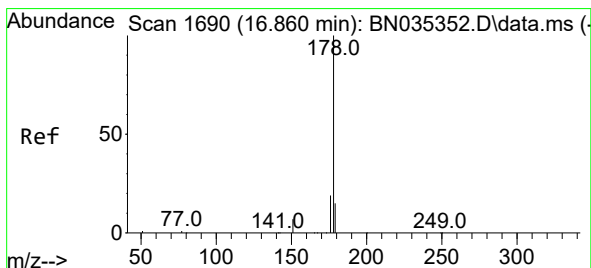
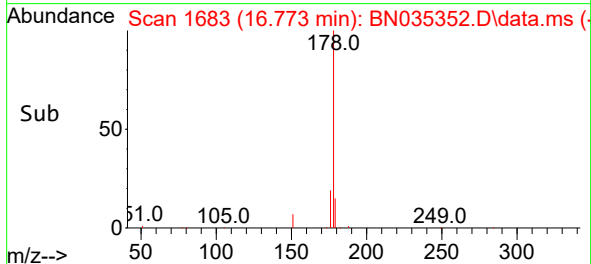
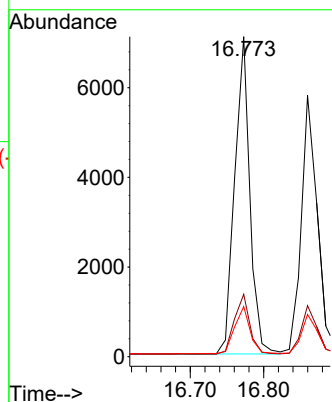
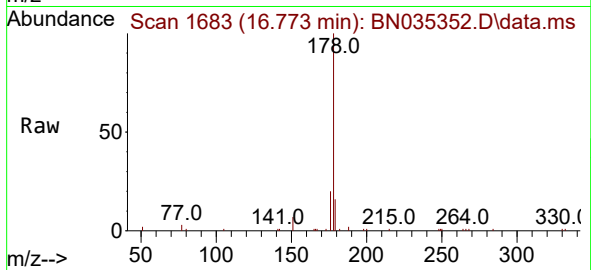




#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

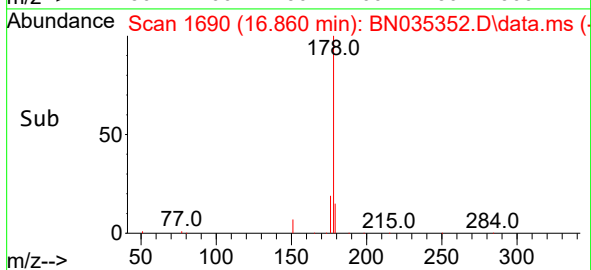
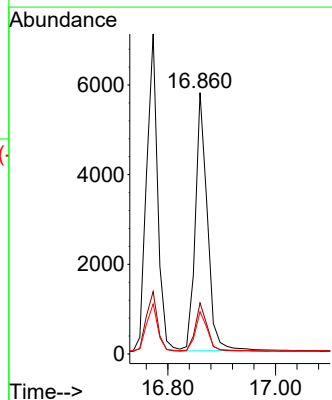
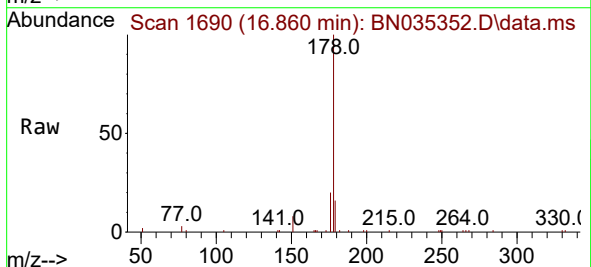
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

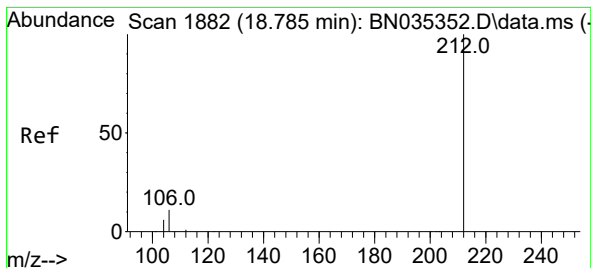
Tgt Ion:	178	Resp:	10127
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5



#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

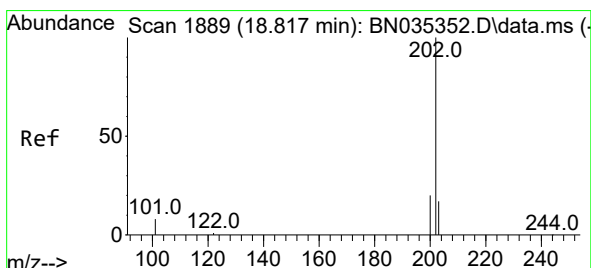
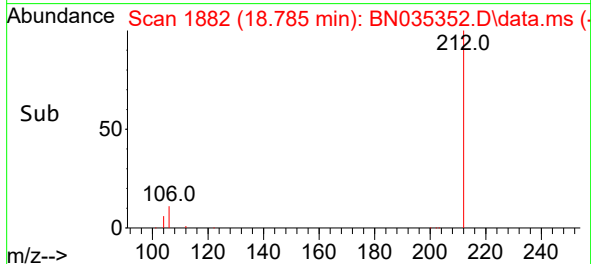
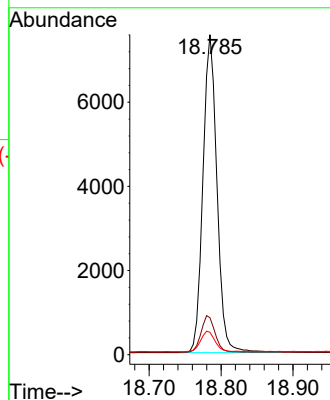
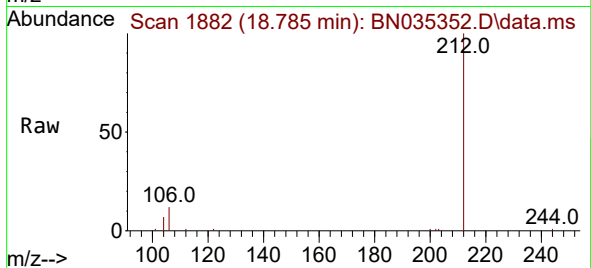




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

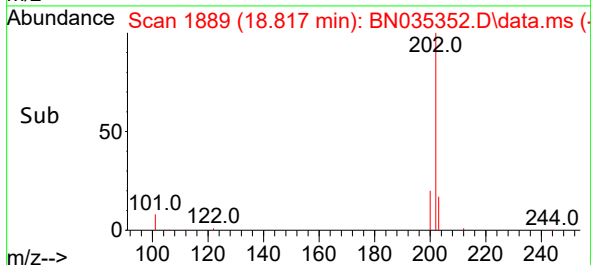
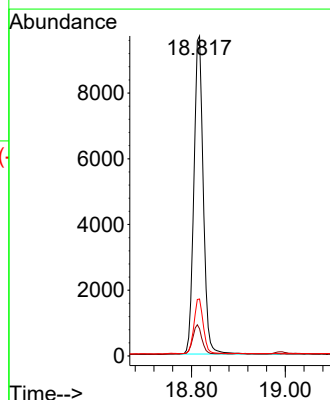
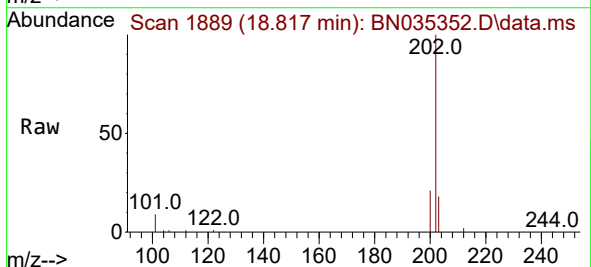
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

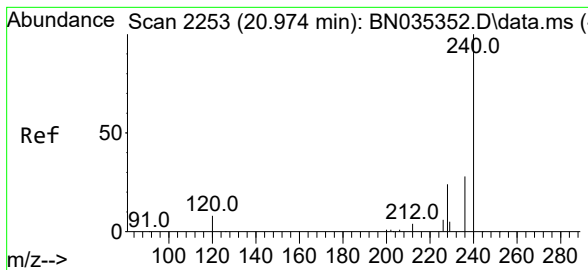
Tgt Ion:212 Resp: 10223
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9



#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

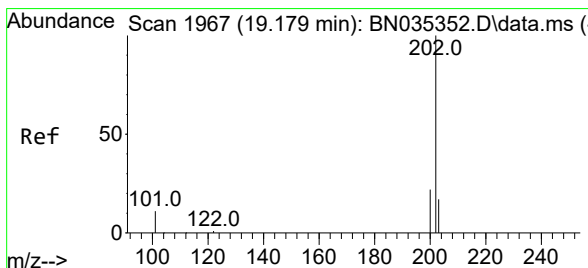
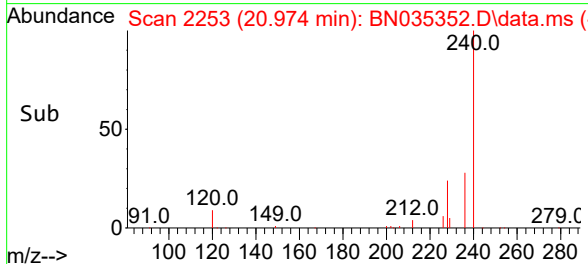
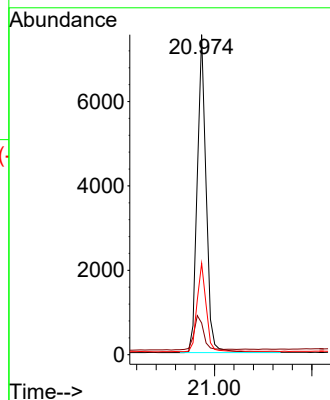
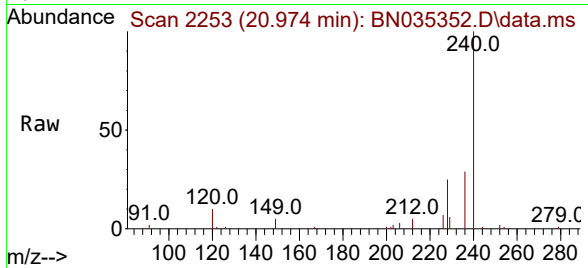
Tgt Ion:240 Resp: 9527

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

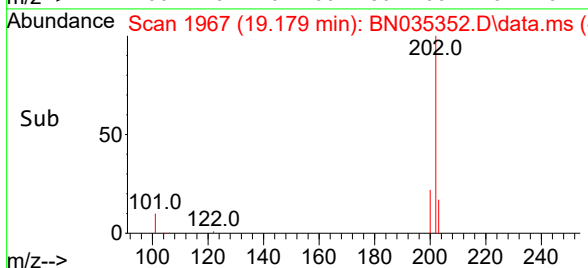
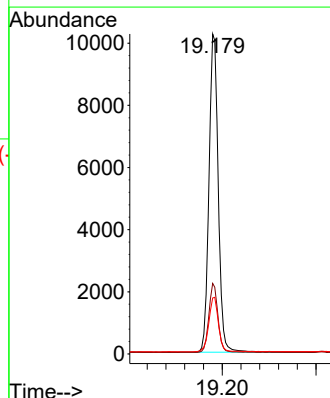
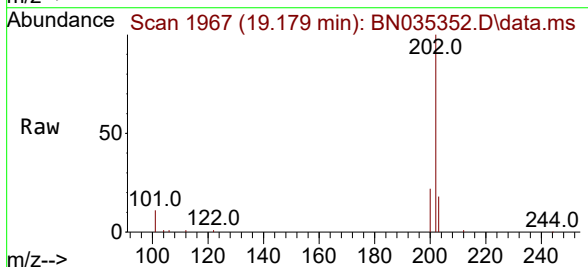
Tgt Ion:202 Resp: 14053

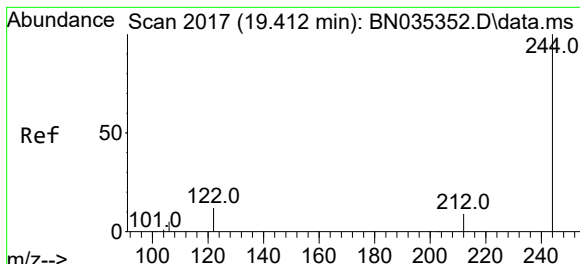
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.9 14.3 21.5

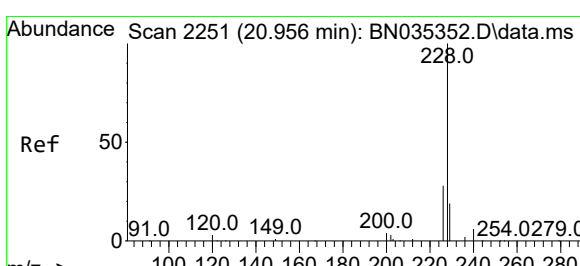
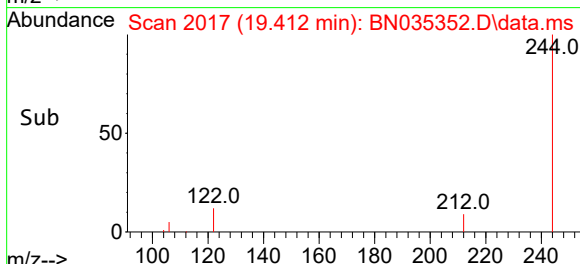
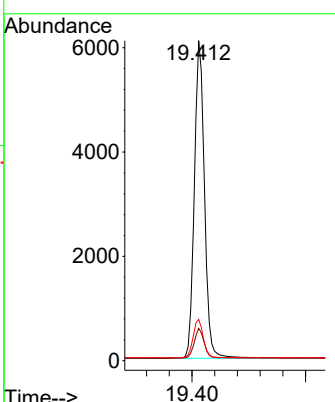
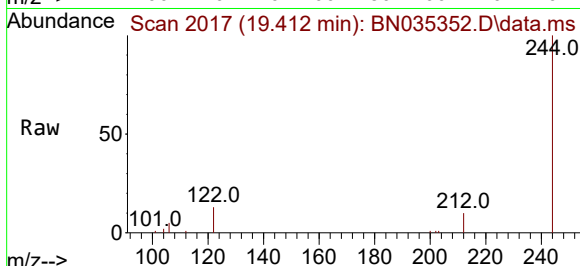




#31
 Terphenyl-d14
 Concen: 0.377 ng
 RT: 19.412 min Scan# 2017
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

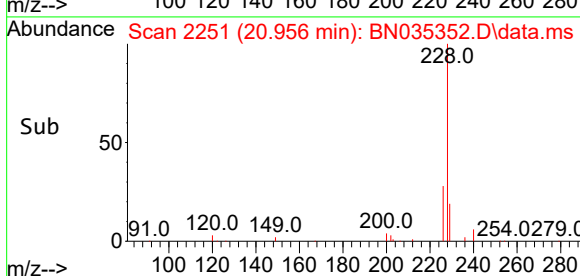
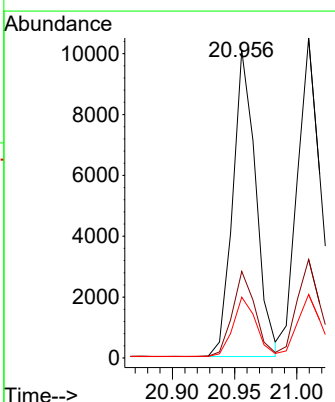
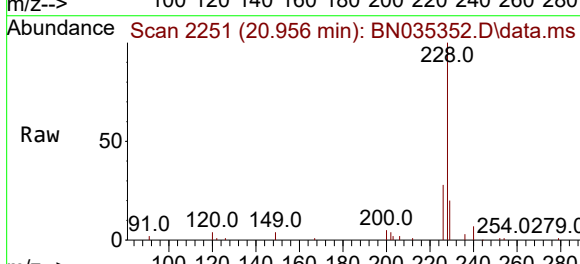
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

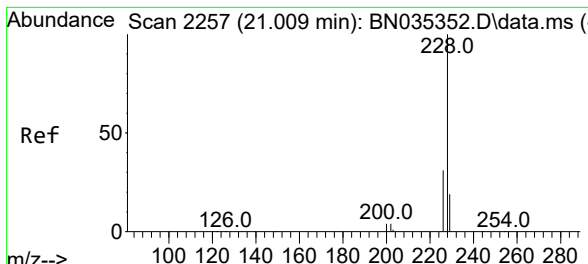
Tgt Ion:	244	Resp:	7533
Ion Ratio	Lower	Upper	
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5



#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

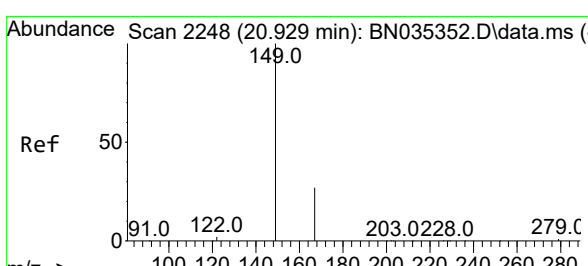
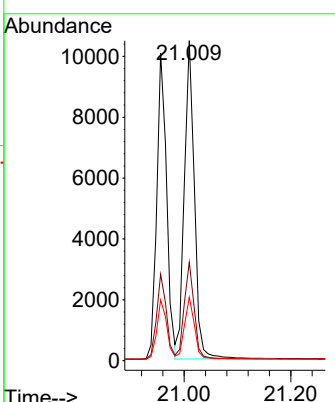
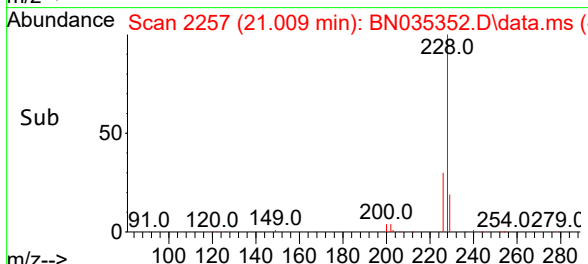
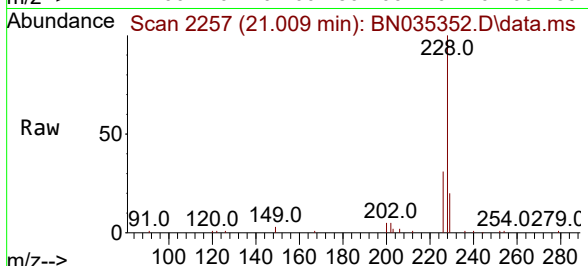




#33
 Chrysene
 Concen: 0.418 ng
 RT: 21.009 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

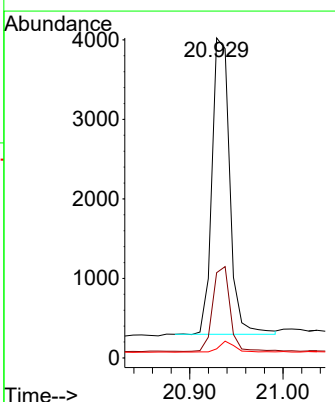
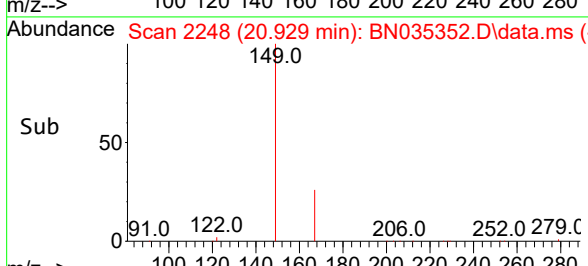
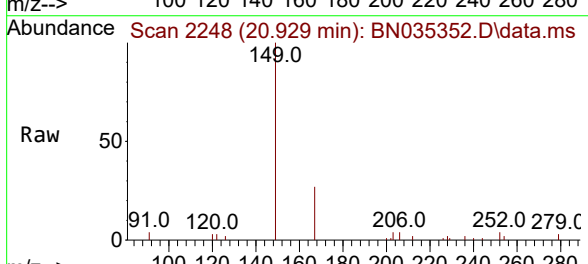
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

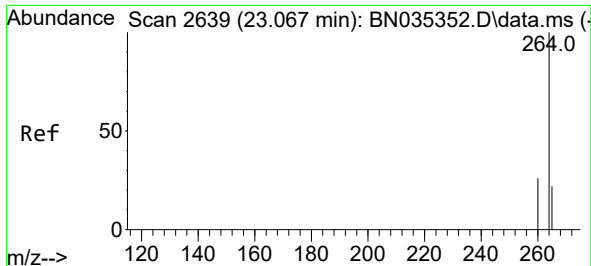
Tgt Ion:228	Resp:	13729
Ion Ratio	Lower	Upper
228	100	
226	30.8	24.6 37.0
229	19.9	15.9 23.9



#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

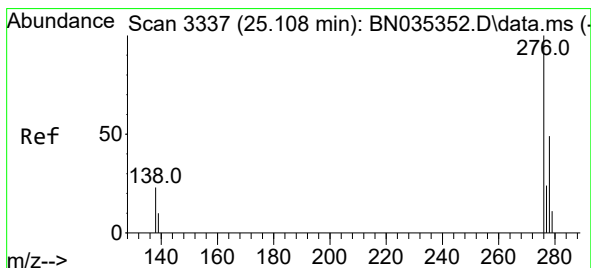
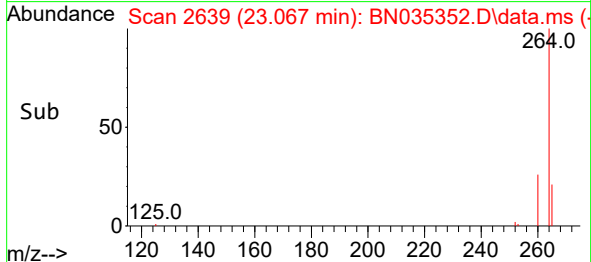
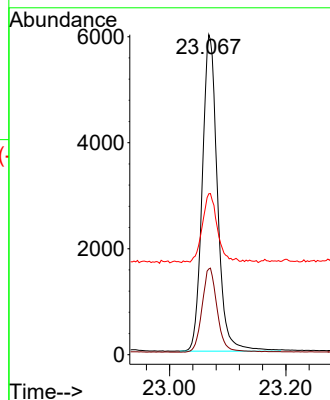
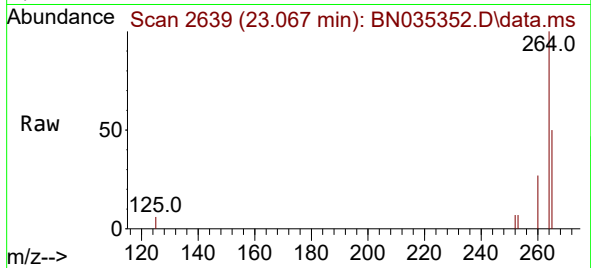




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

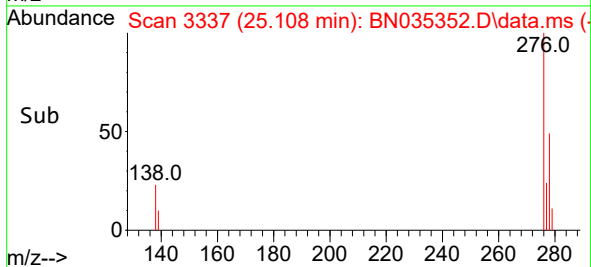
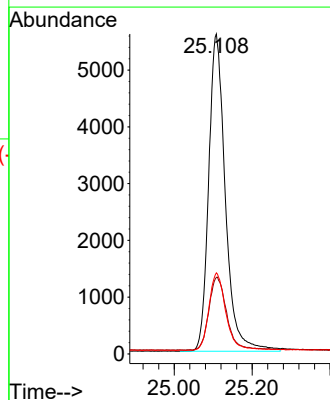
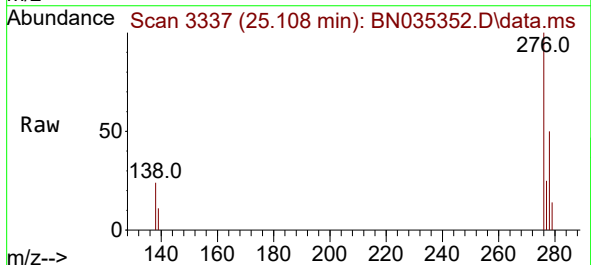
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

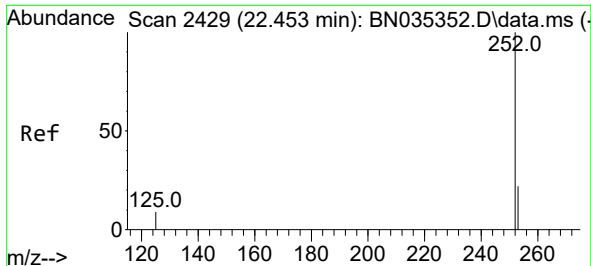
Tgt Ion:264 Resp: 10842
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 50.3 40.2 60.4



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

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

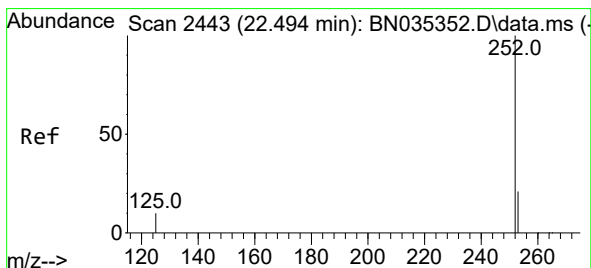
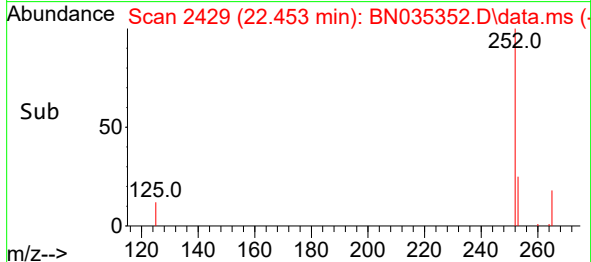
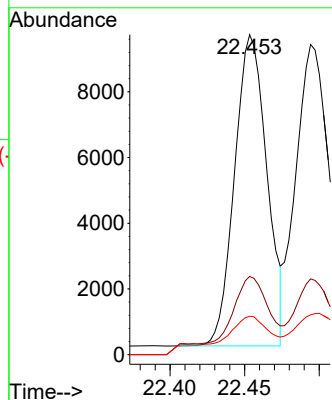
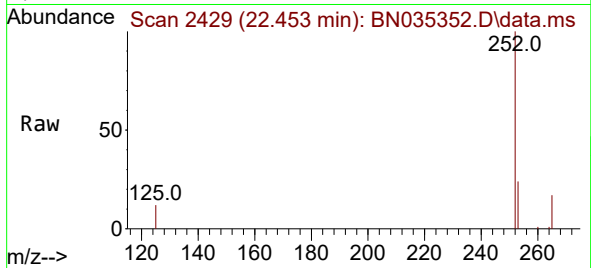




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 2429
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

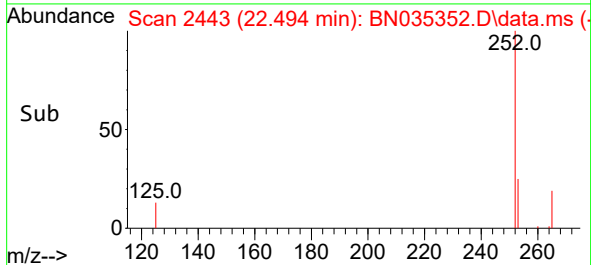
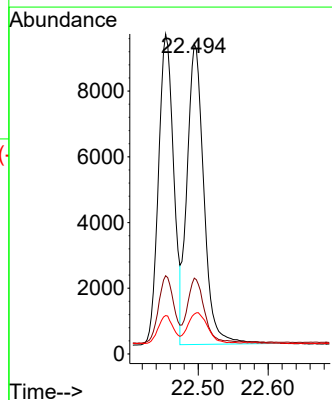
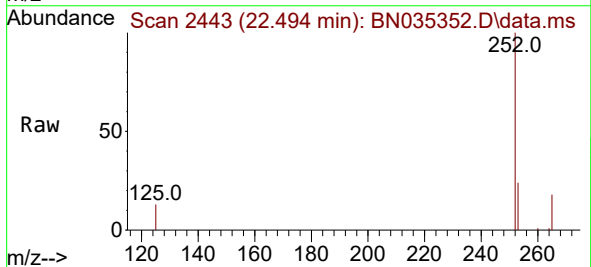
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

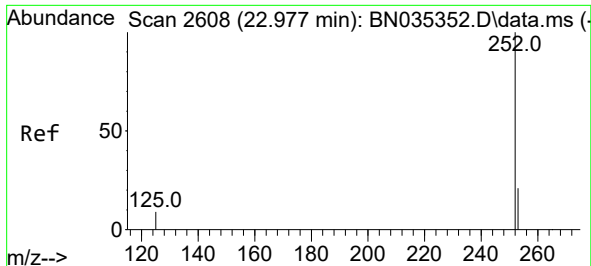
Tgt Ion:252 Resp: 14235
Ion Ratio Lower Upper
252 100
253 24.5 19.6 29.4
125 12.0 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199
Ion Ratio Lower Upper
252 100
253 24.4 19.5 29.3
125 12.8 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035352.D

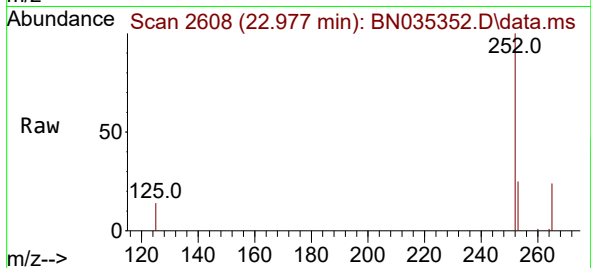
Acq: 27 Nov 2024 16:46

Instrument :

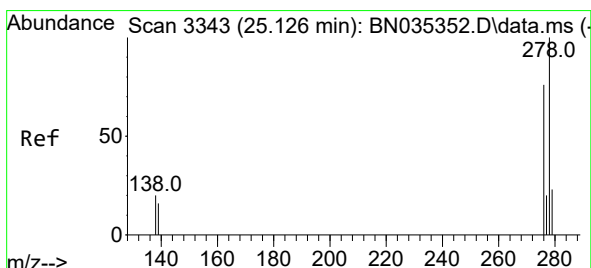
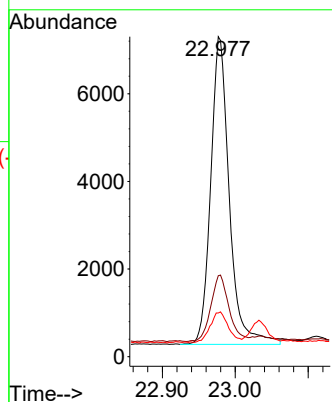
BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:	252	Resp:	12425
Ion Ratio	Lower	Upper	
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

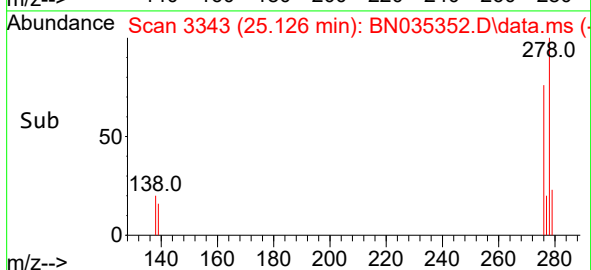
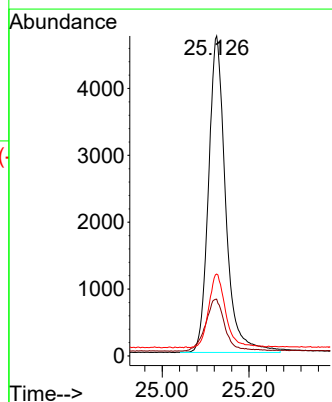
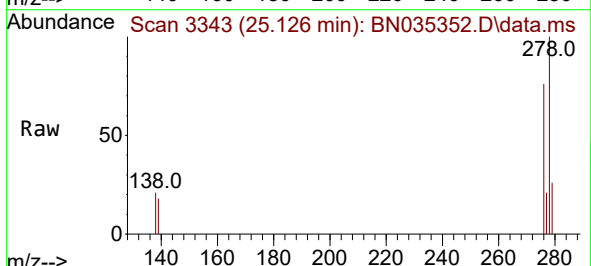
RT: 25.126 min Scan# 3343

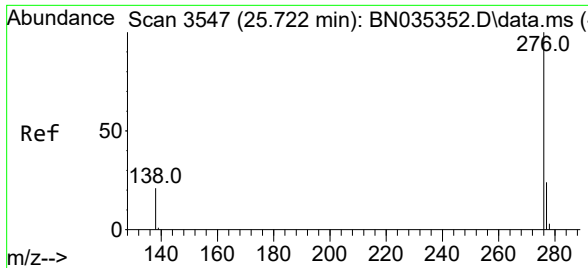
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

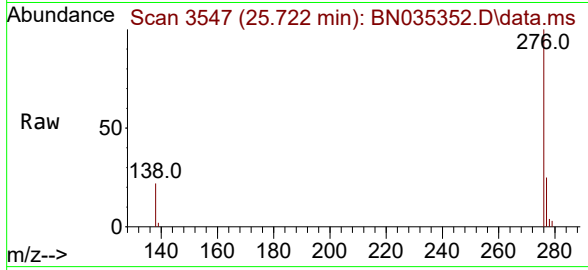
Tgt Ion:	278	Resp:	12948
Ion Ratio	Lower	Upper	
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



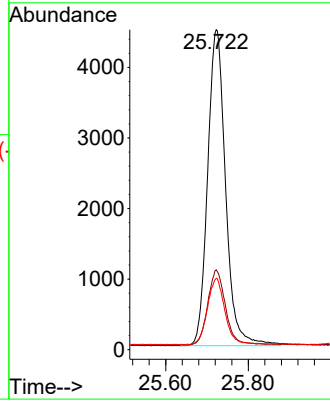
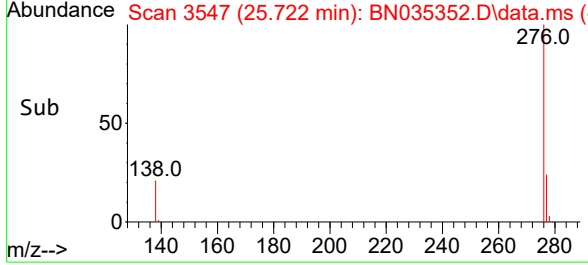


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:	276	Resp:	13529
Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035357.D
 Acq On : 27 Nov 2024 20:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

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

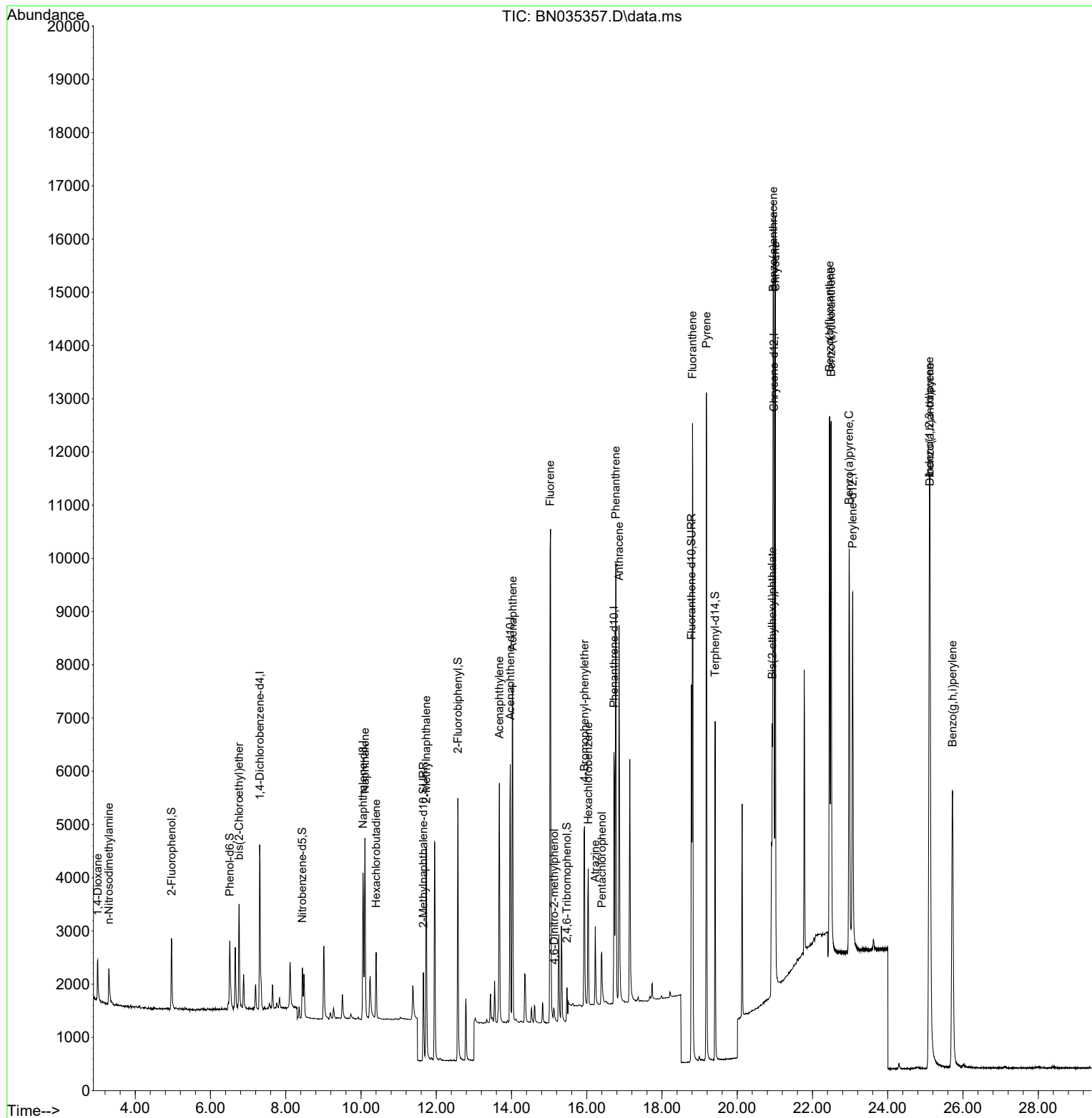
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng	0.00
35) Perylene-d12	23.067	264	8338	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1280	0.332	ng	0.00
5) Phenol-d6	6.513	99	1437	0.310	ng	0.00
8) Nitrobenzene-d5	8.440	82	1017	0.427	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng	0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng	0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.003	88	684	0.465	ng	99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	# 88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng	99
9) Naphthalene	10.105	128	4364	0.424	ng	99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	# 100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng	98
16) Acenaphthylene	13.679	152	5261	0.435	ng	100
17) Acenaphthene	14.031	154	3421	0.426	ng	99
18) Fluorene	15.026	166	4825	0.420	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	# 86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng	99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng	99
23) Atrazine	16.227	200	1227	0.401	ng	99
24) Pentachlorophenol	16.400	266	662	0.301	ng	# 83
25) Phenanthrene	16.773	178	8509	0.421	ng	100
26) Anthracene	16.860	178	7849	0.430	ng	100
28) Fluoranthene	18.812	202	10941	0.402	ng	100
30) Pyrene	19.179	202	11476	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng	100
33) Chrysene	21.009	228	11926	0.436	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng	99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng	99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng	99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng	99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng	100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng	99

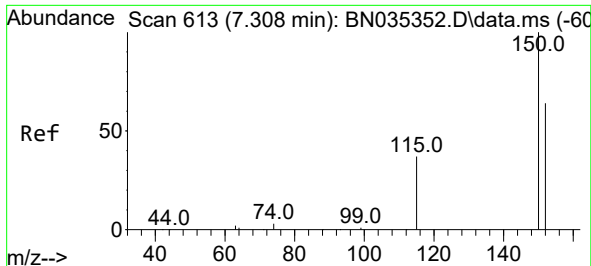
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

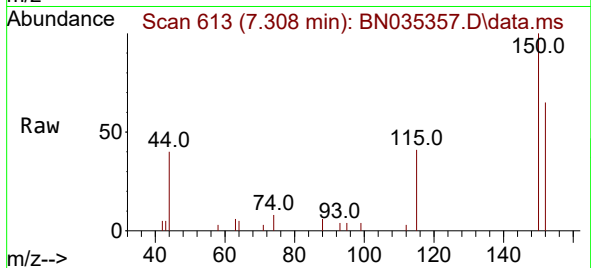
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



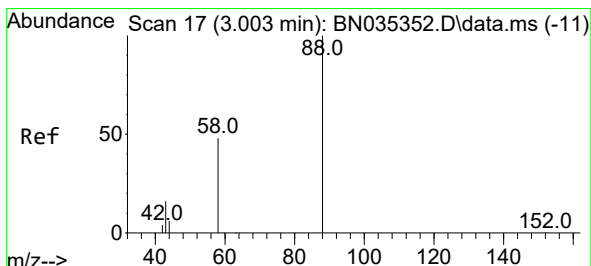
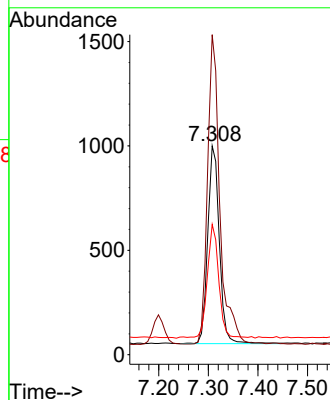
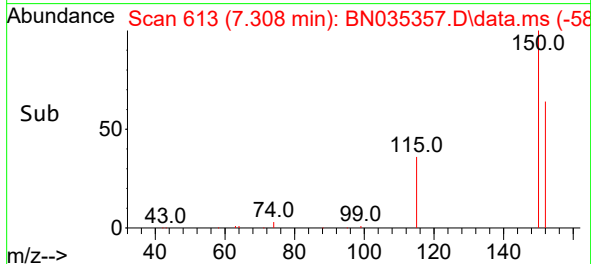


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

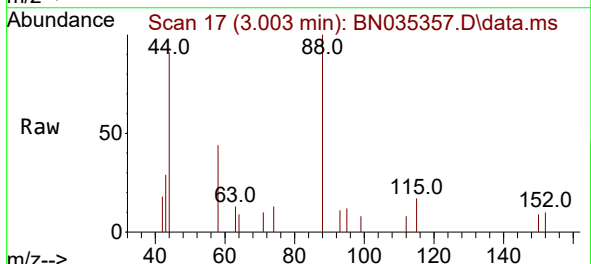
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



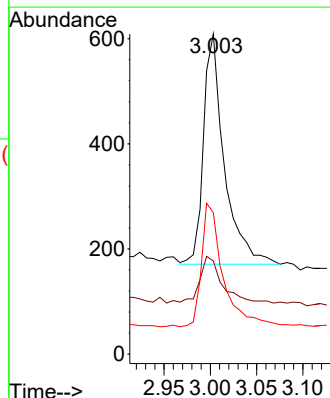
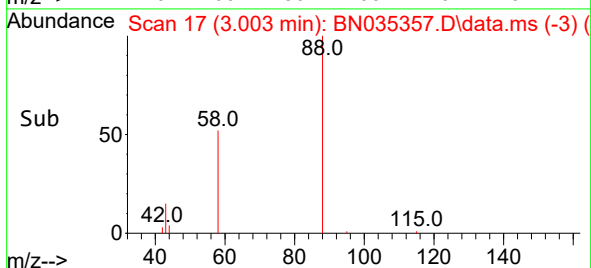
Tgt Ion:152 Resp: 1540
Ion Ratio Lower Upper
152 100
150 153.3 124.0 186.0
115 62.4 49.6 74.4

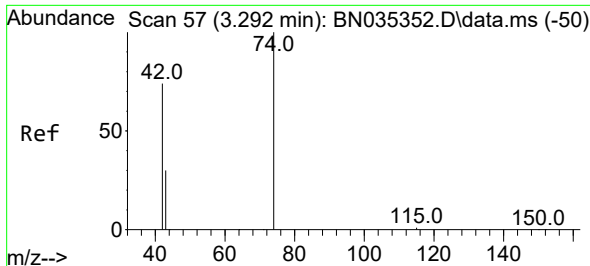


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



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

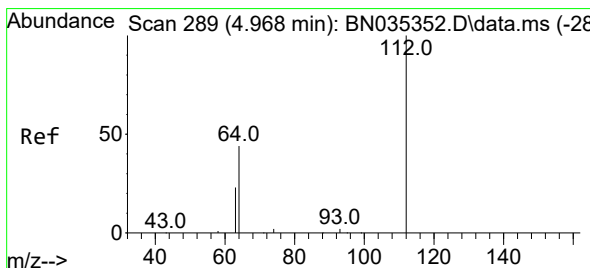
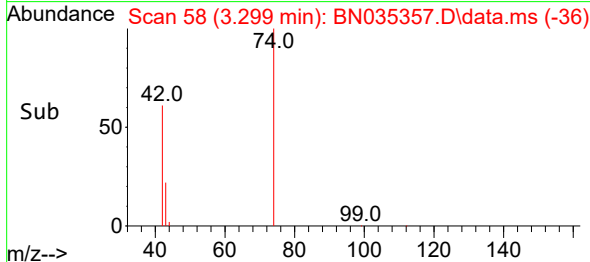
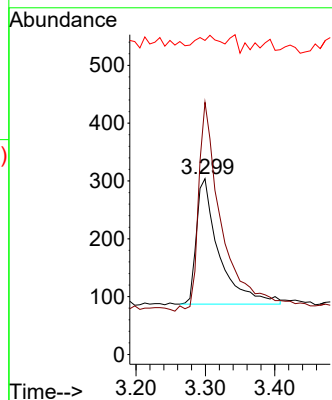
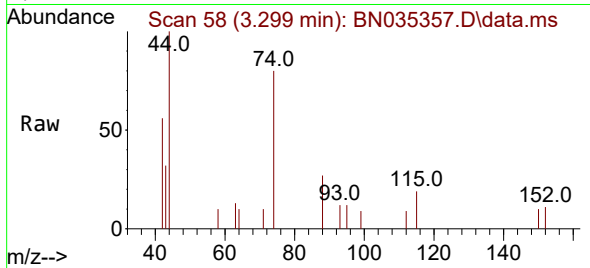




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

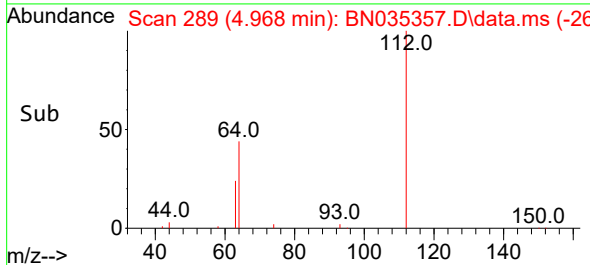
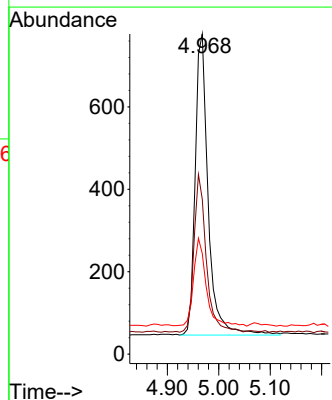
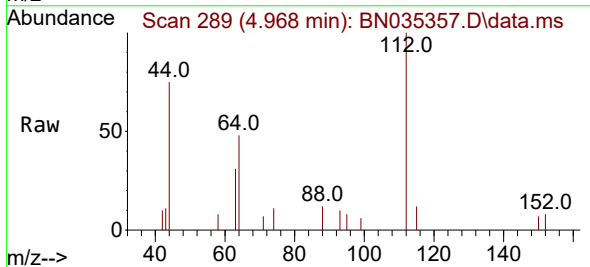
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

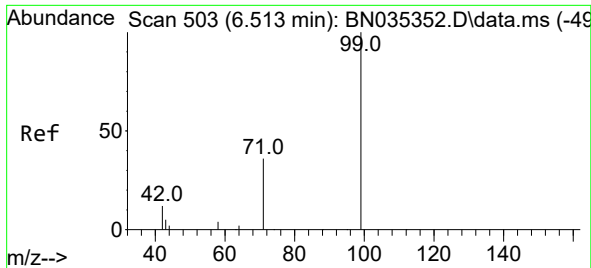
Tgt Ion: 42 Resp: 495
Ion Ratio Lower Upper
42 100
74 172.1 124.9 187.3
44 6.3 2.2 3.4#



#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

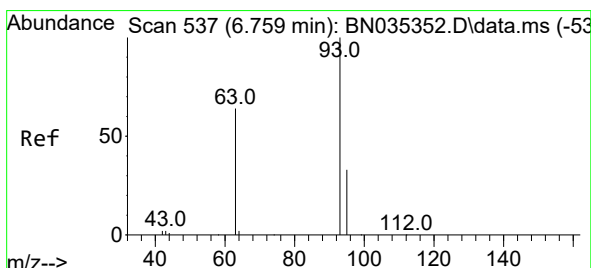
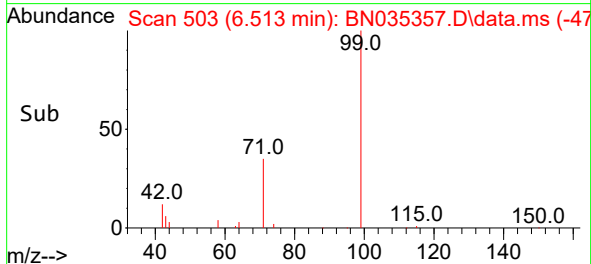
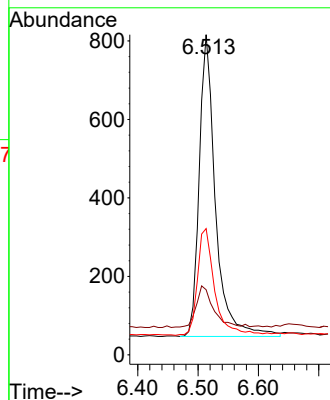
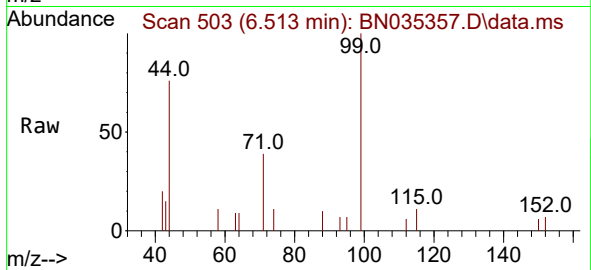




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

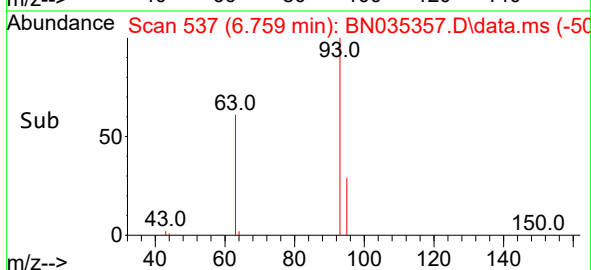
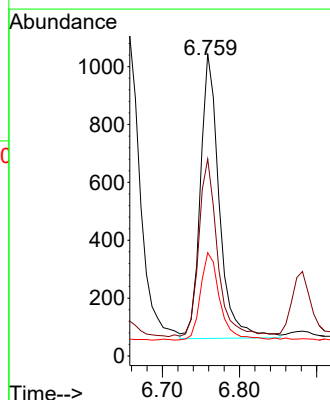
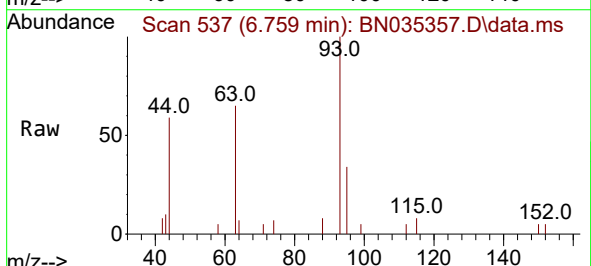
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

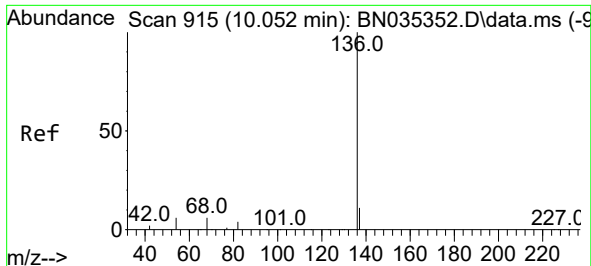
Tgt Ion:	99	Resp:	1437
Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9



#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

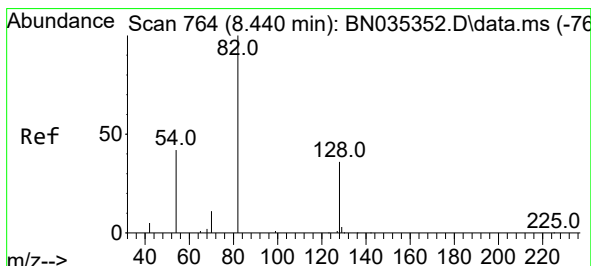
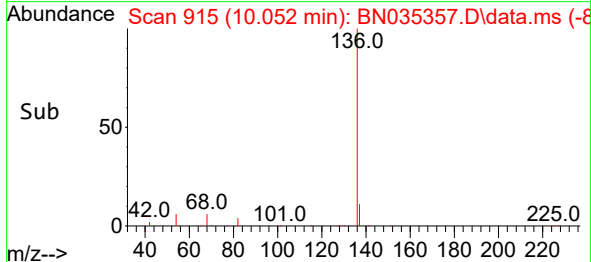
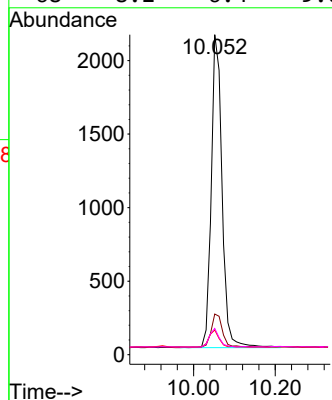
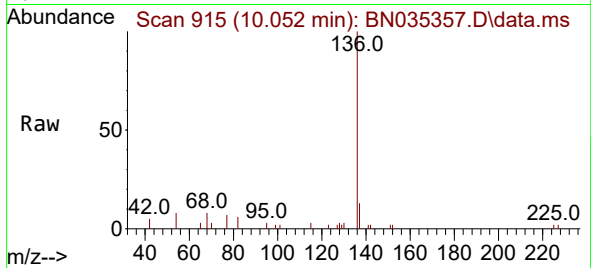




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

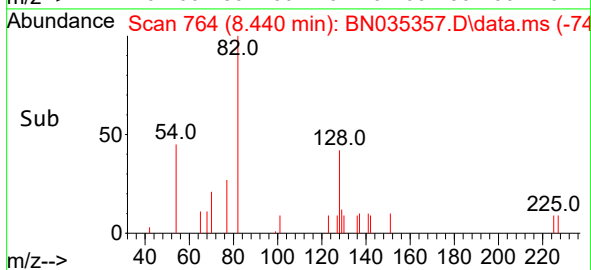
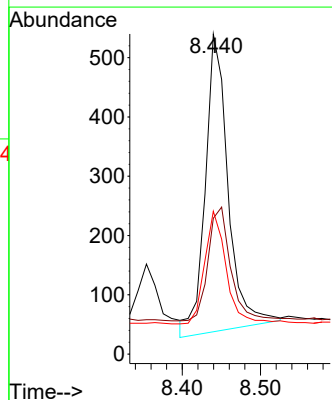
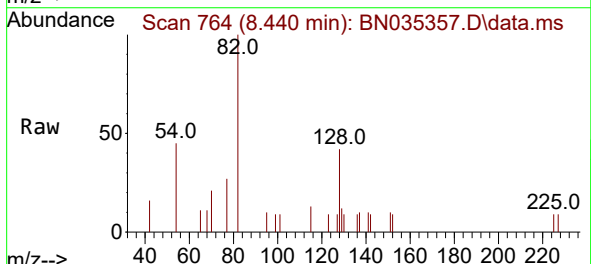
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

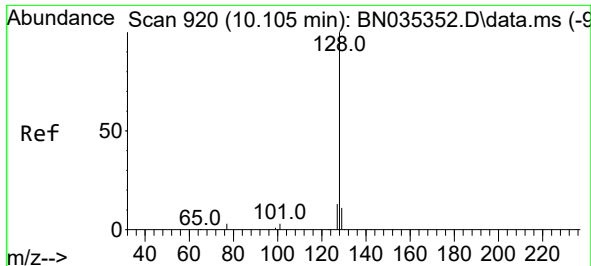
Tgt Ion:	136	Resp:	3904
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



#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

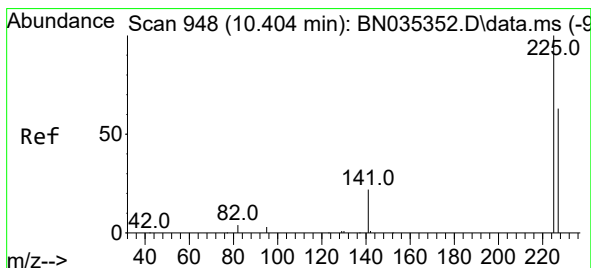
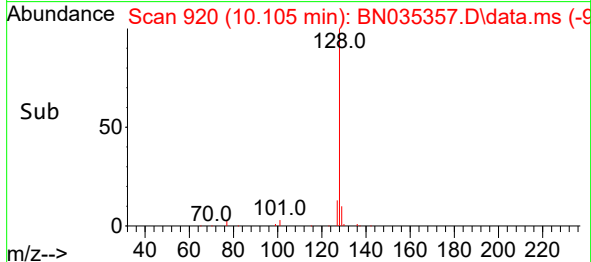
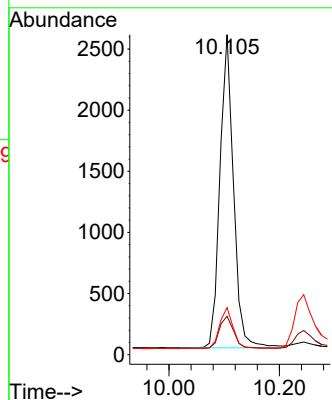
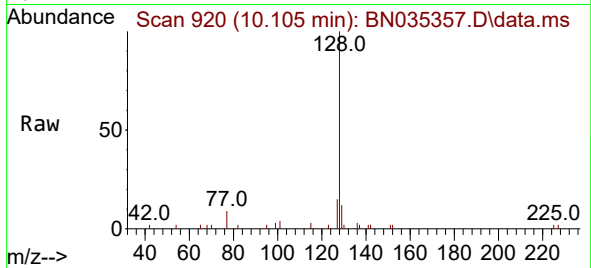




#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

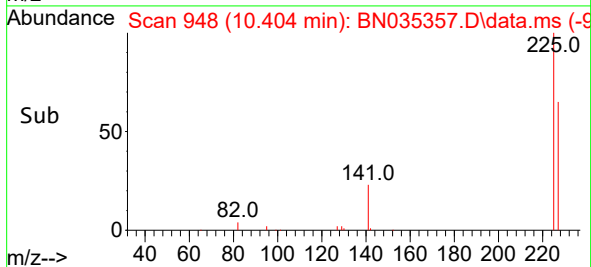
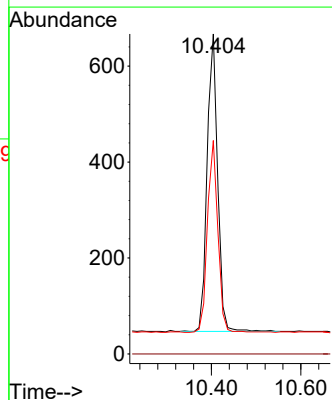
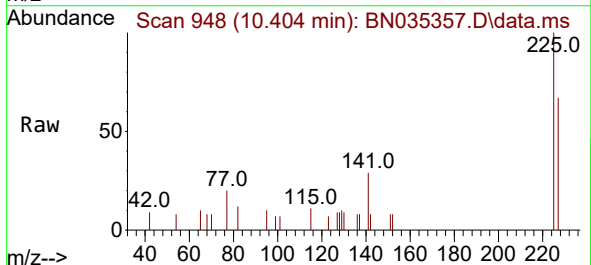
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

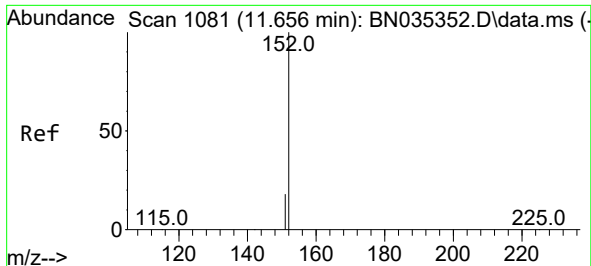
Tgt Ion:128 Resp: 4364
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.7 11.4 17.2



#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

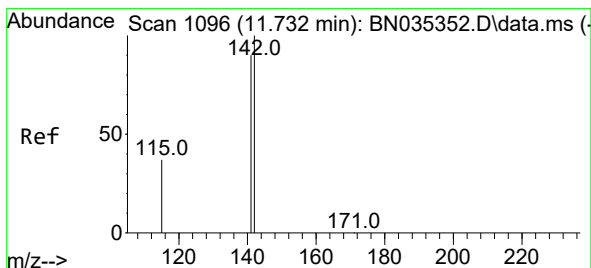
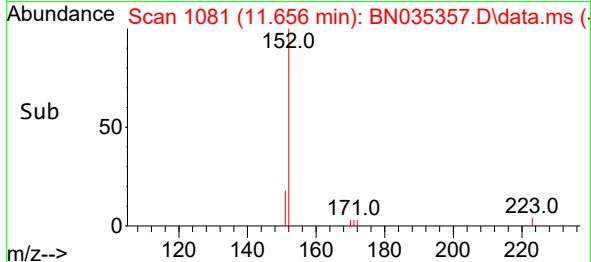
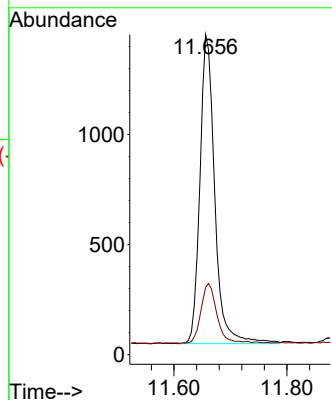
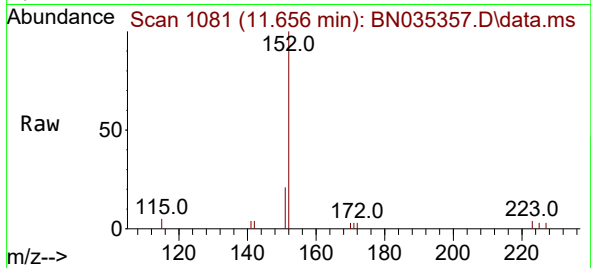




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

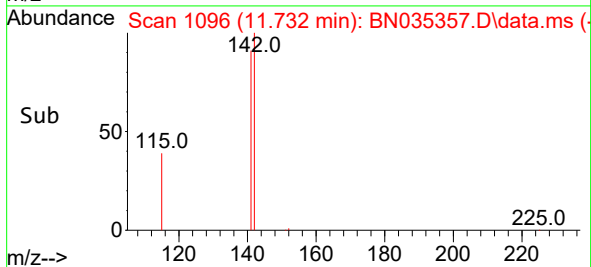
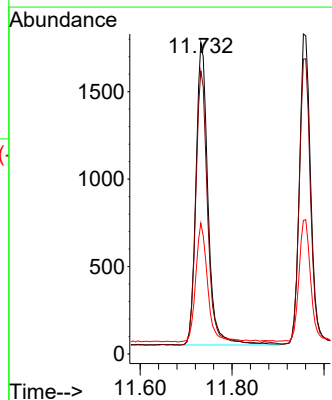
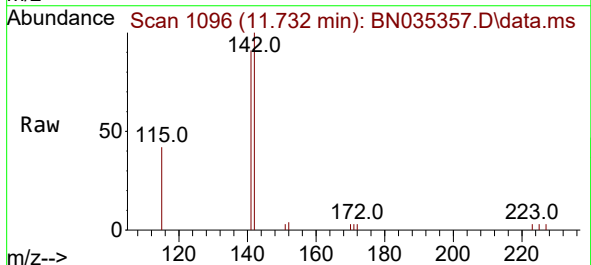
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

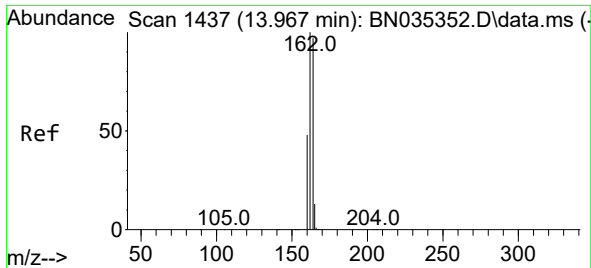
Tgt Ion:152 Resp: 2565
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#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

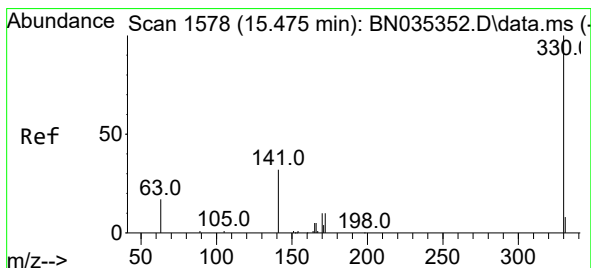
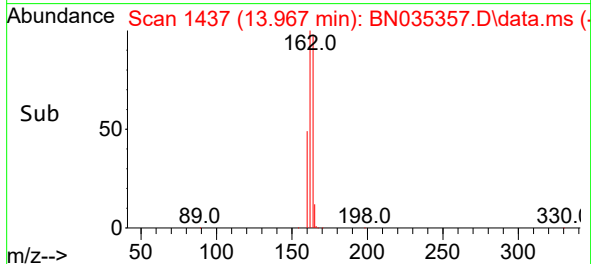
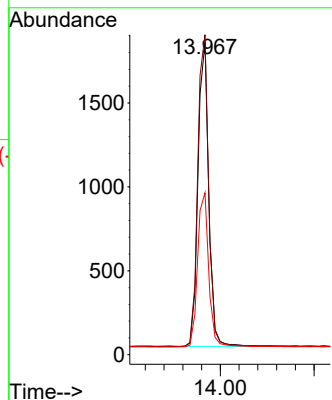
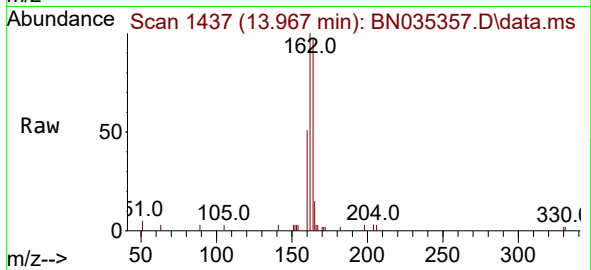




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

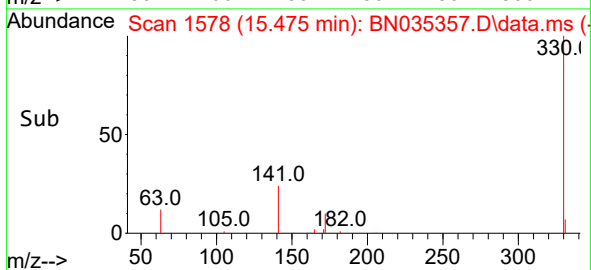
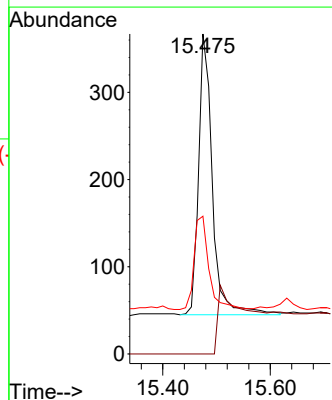
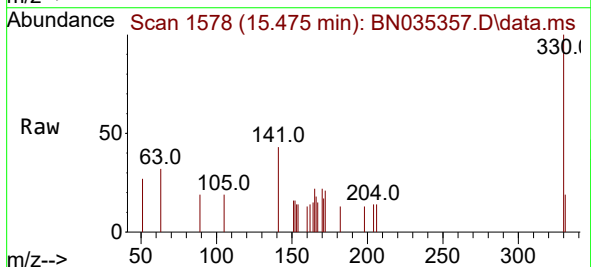
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

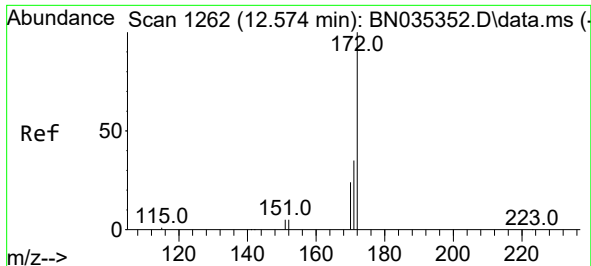
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.8 40.1 60.1



#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

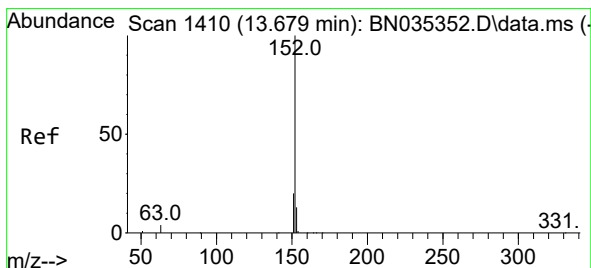
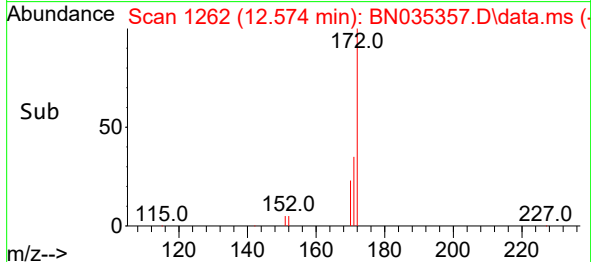
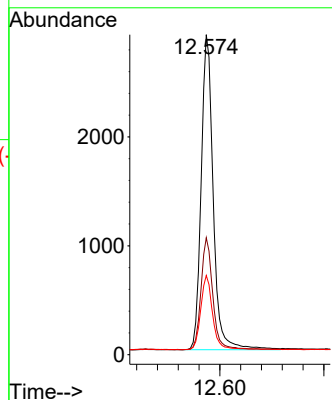
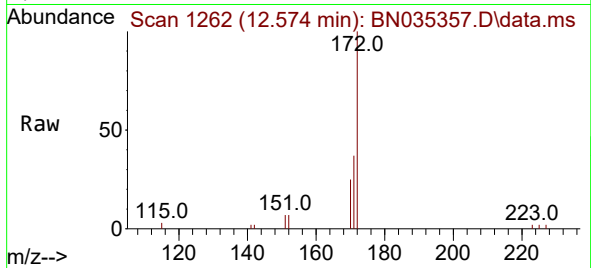




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

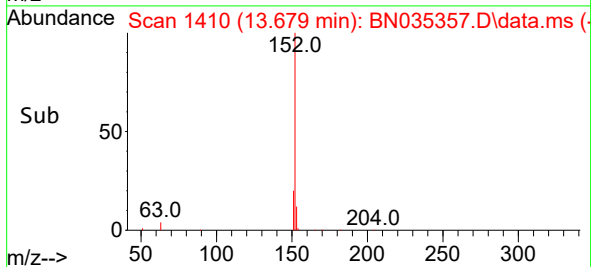
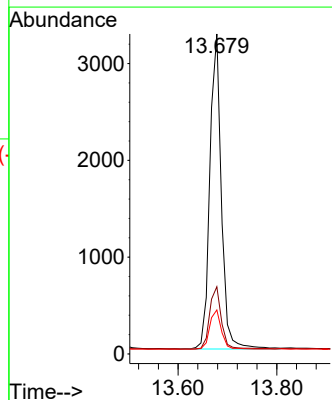
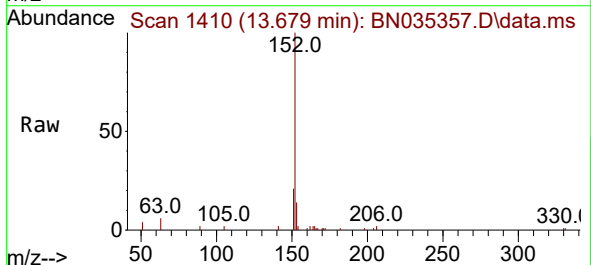
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

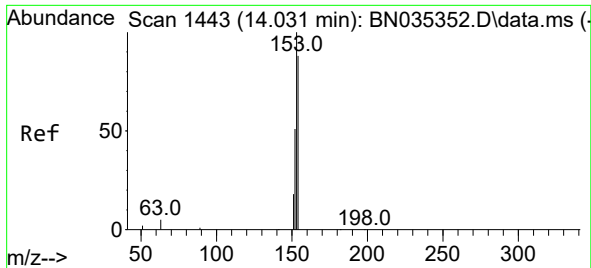
Tgt Ion:	172	Resp:	4647
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



#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

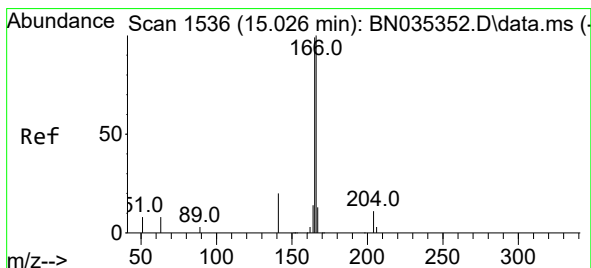
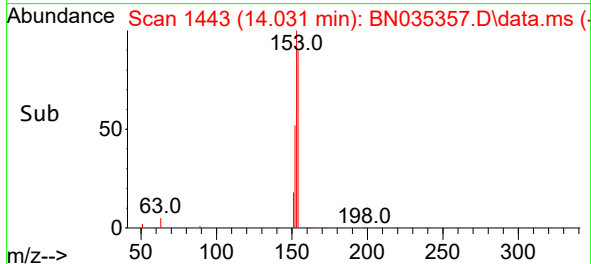
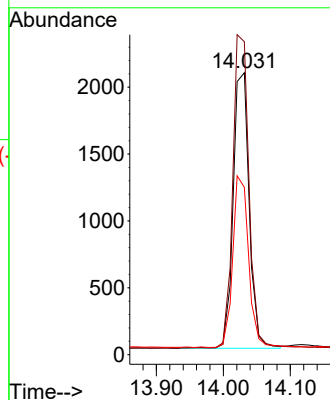
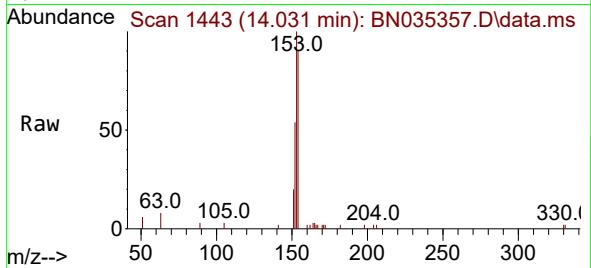




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

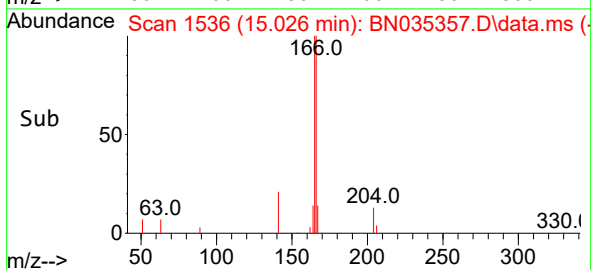
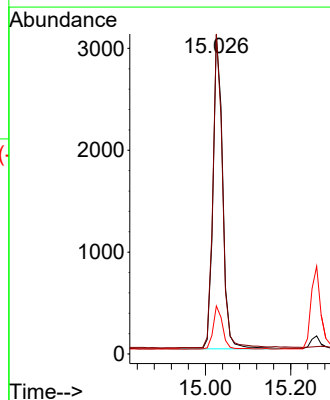
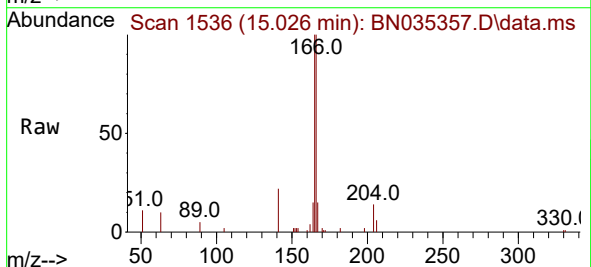
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

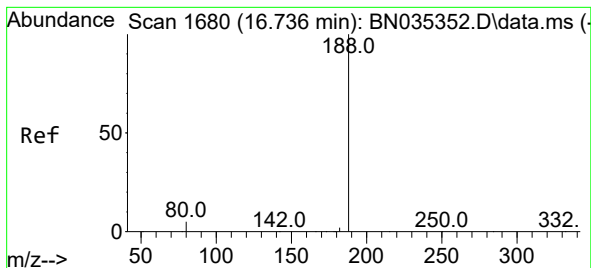
Tgt Ion:154 Resp: 3421
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 61.9 49.0 73.6



#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

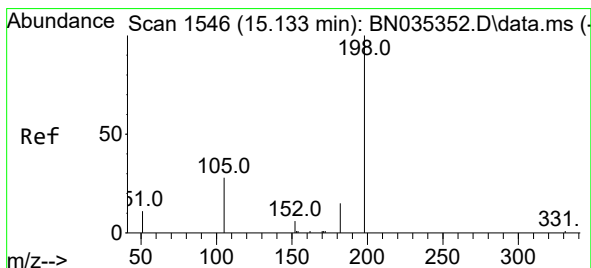
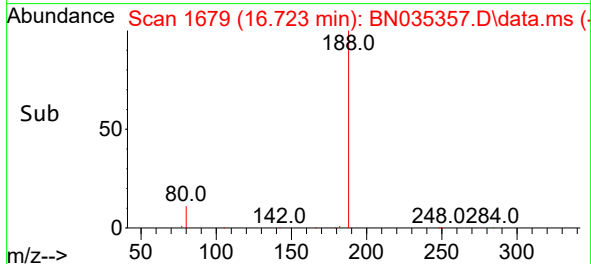
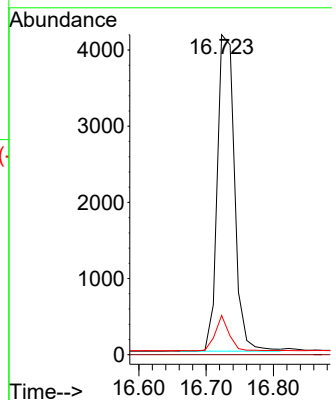
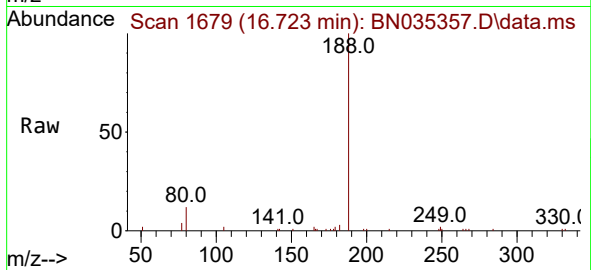
Tgt Ion:188 Resp: 7350

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

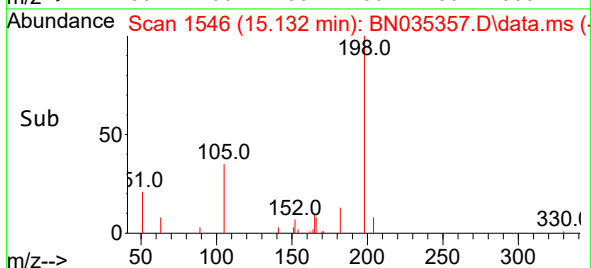
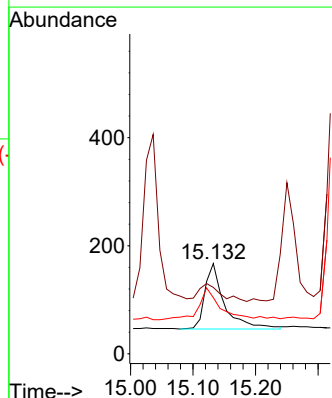
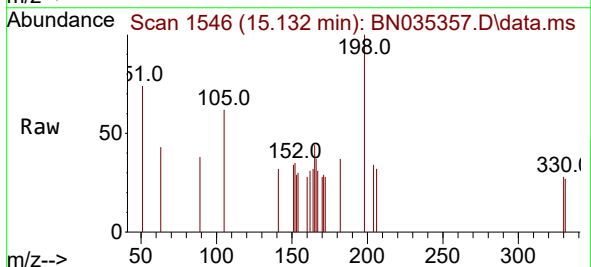
Tgt Ion:198 Resp: 263

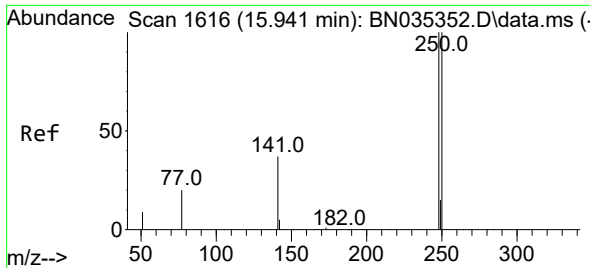
Ion Ratio Lower Upper

198 100

51 73.7 46.5 69.7#

105 62.3 45.3 67.9

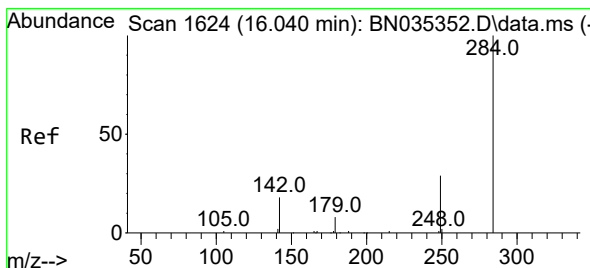
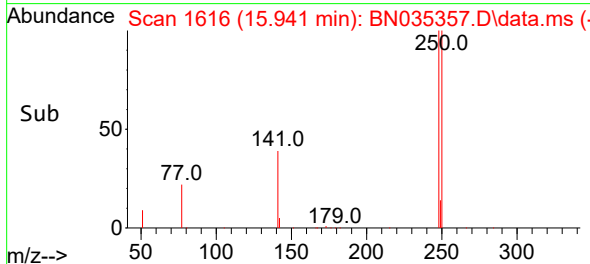
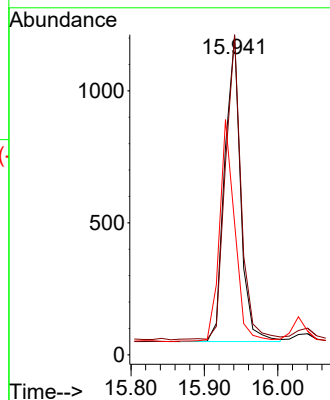
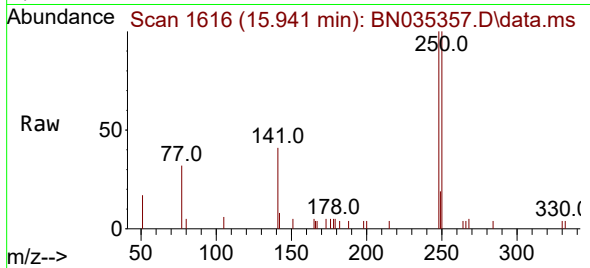




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

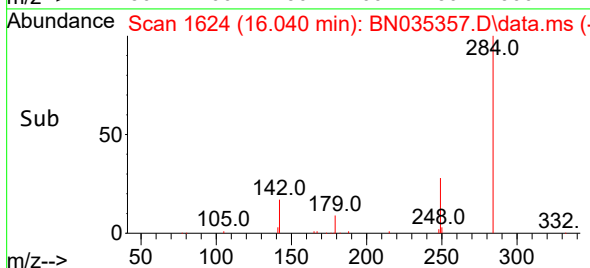
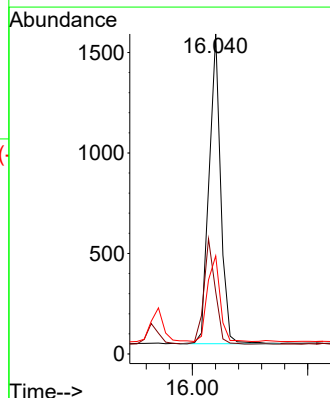
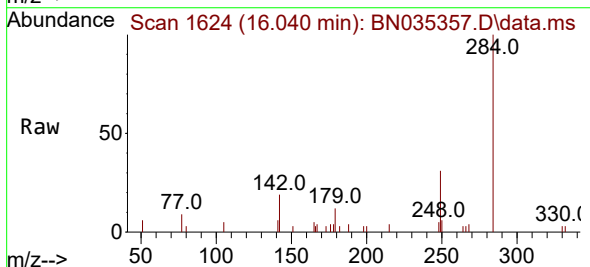
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

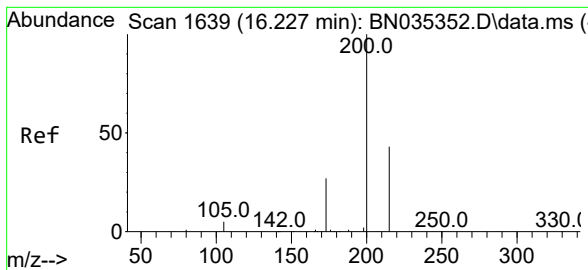
Tgt Ion:	248	Resp:	1742
Ion Ratio	Lower	Upper	
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3



#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

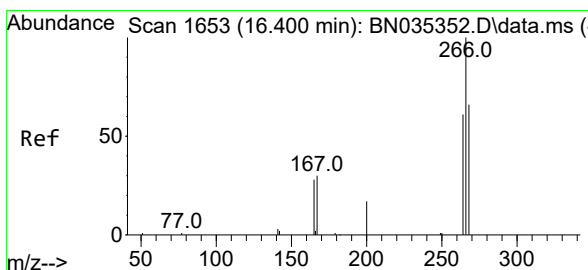
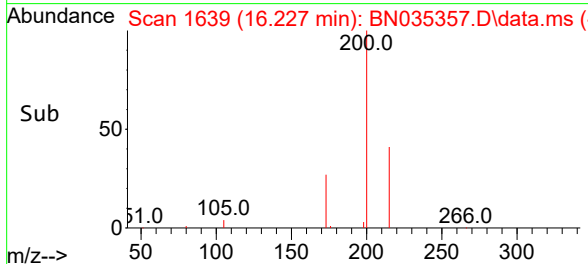
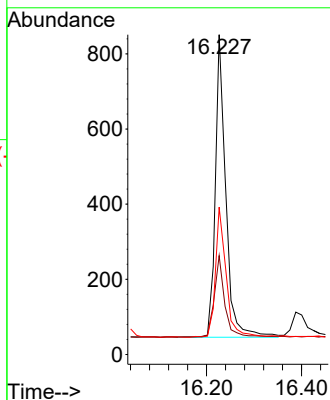
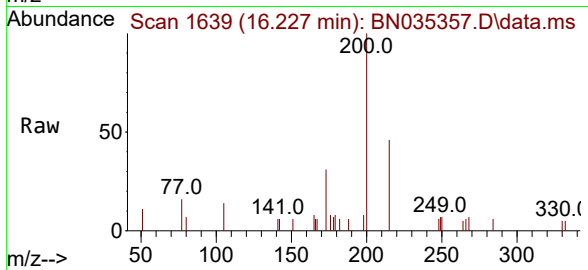




#23
 Atrazine
 Concen: 0.401 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

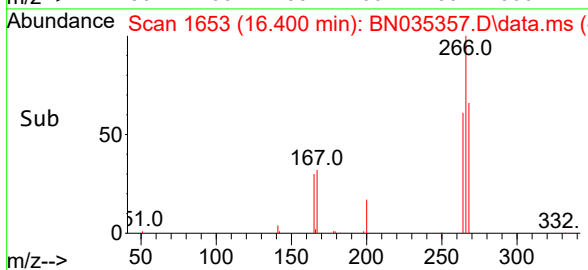
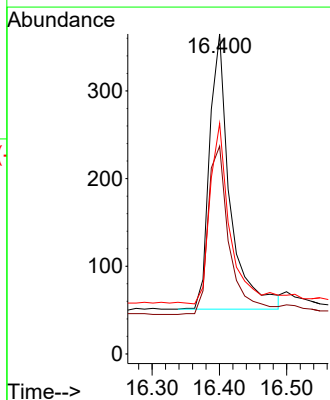
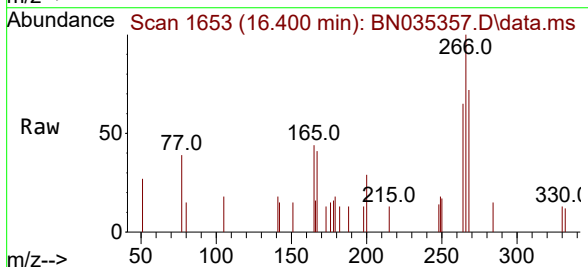
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

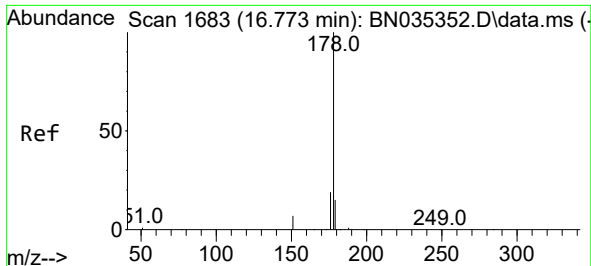
Tgt Ion:	200	Resp:	1227
Ion Ratio	Lower	Upper	
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3



#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#

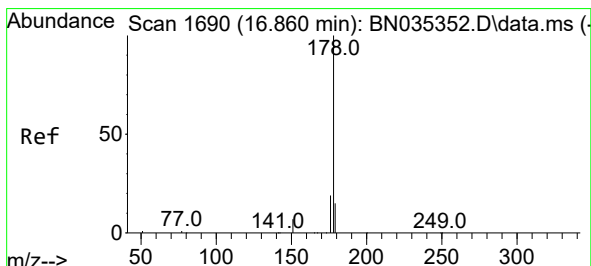
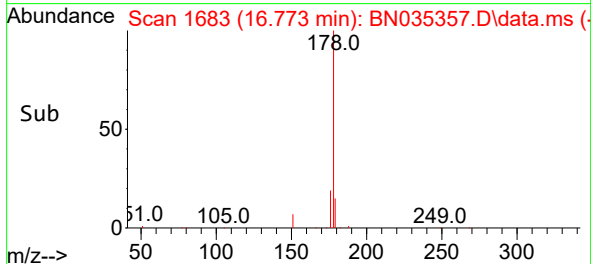
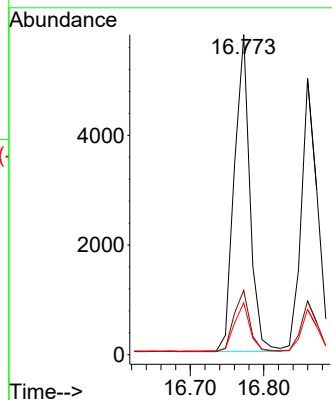
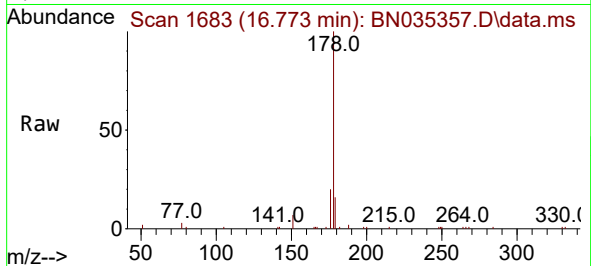




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

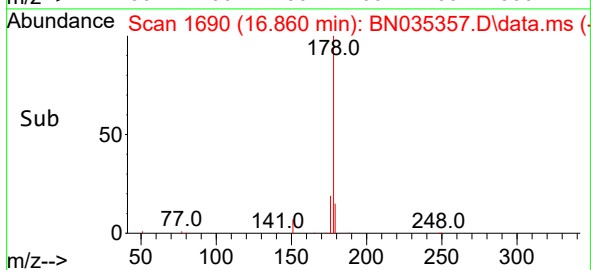
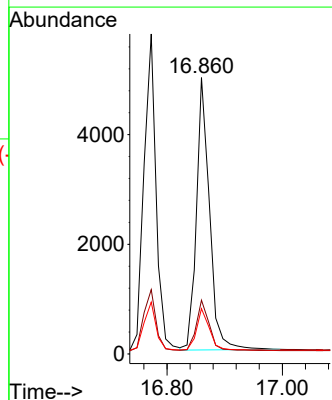
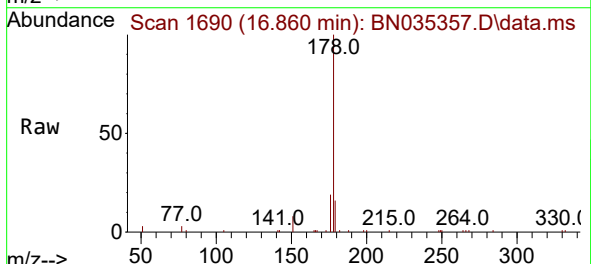
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

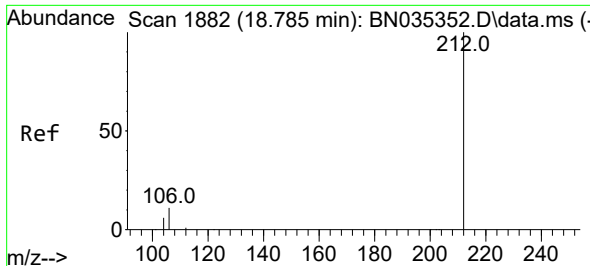
Tgt Ion:	178	Resp:	8509
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5



#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

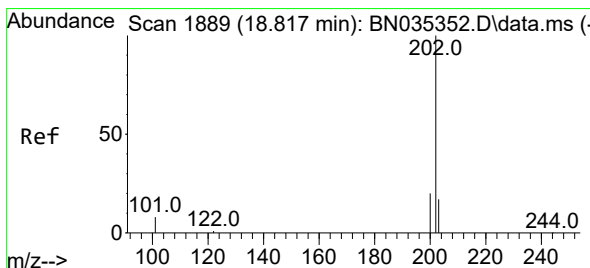
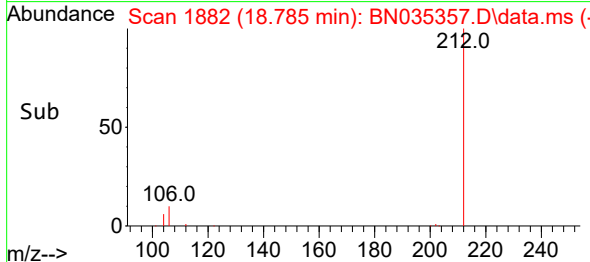
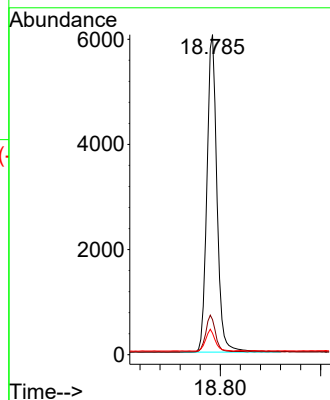
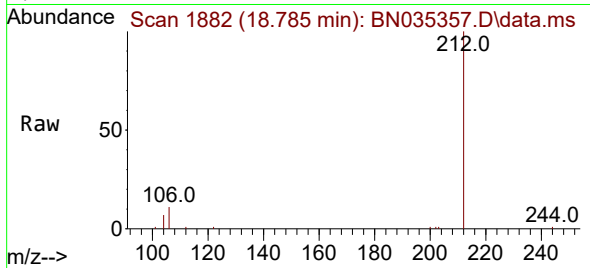




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

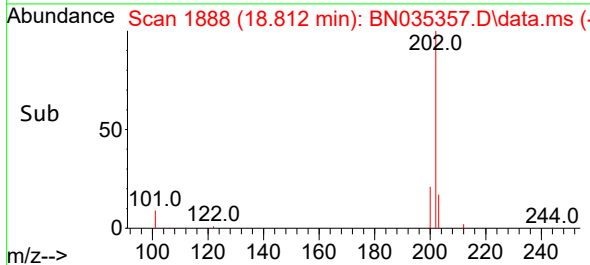
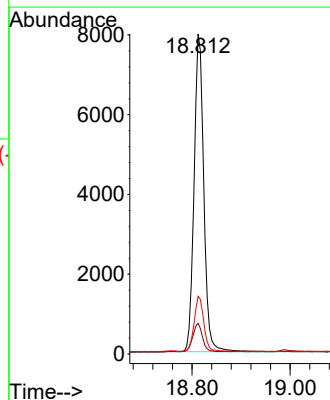
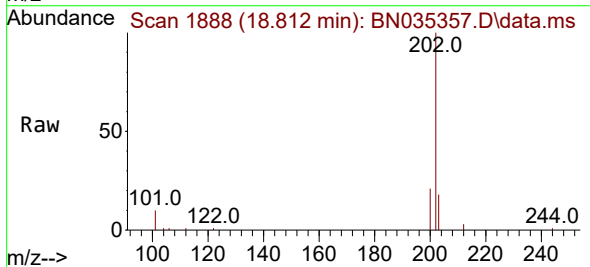
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

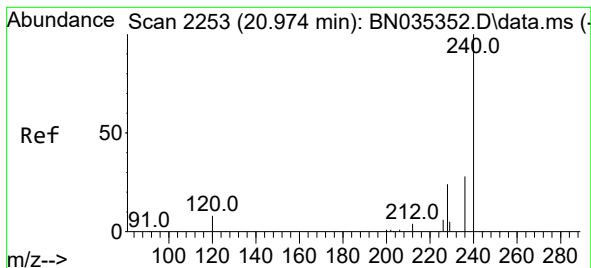
Tgt Ion:212	Resp:	8415
Ion Ratio	Lower	Upper
212	100	
106	11.3	9.2 13.8
104	6.4	5.3 7.9



#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

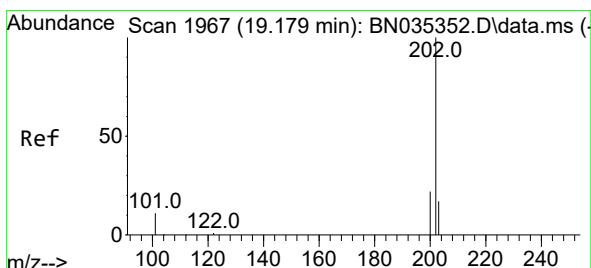
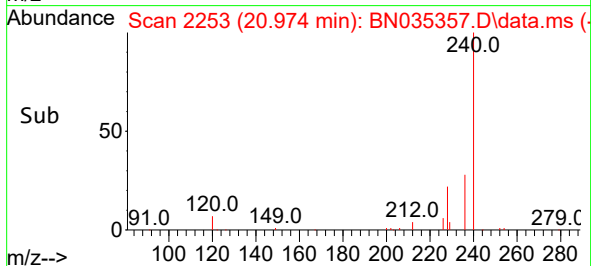
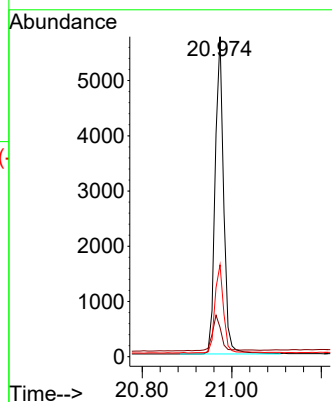
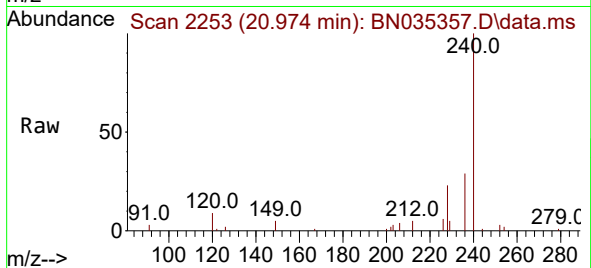
Tgt Ion:240 Resp: 7576

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

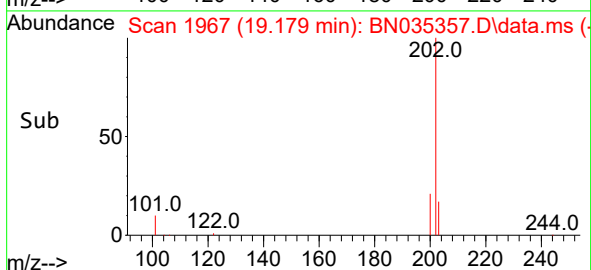
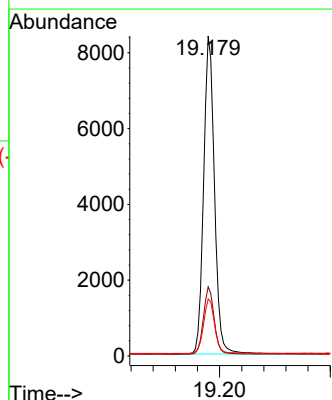
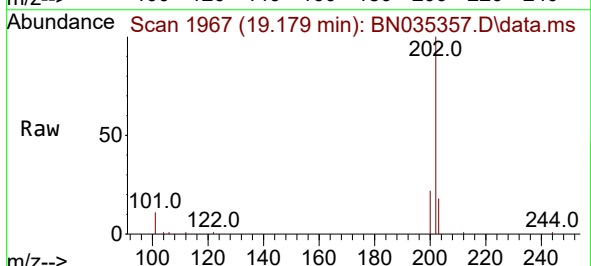
Tgt Ion:202 Resp: 11476

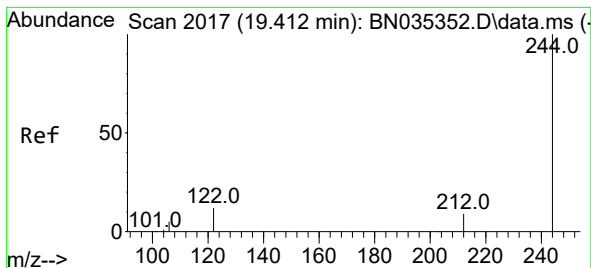
Ion Ratio Lower Upper

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

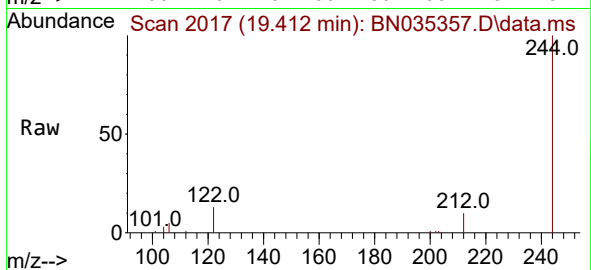
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



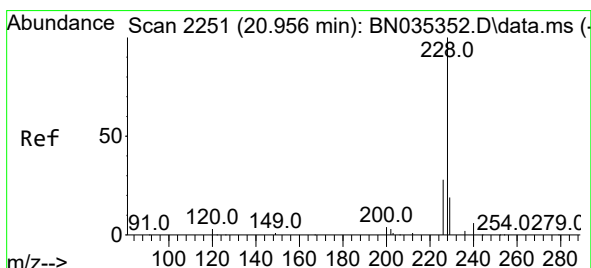
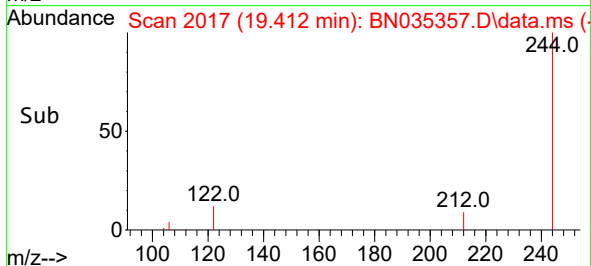
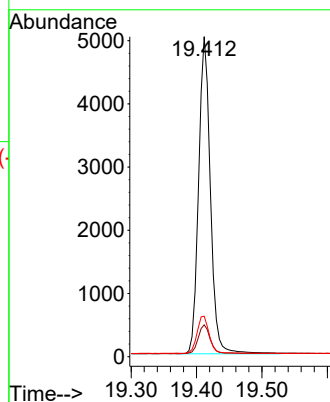
Tgt Ion:244 Resp: 6272

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

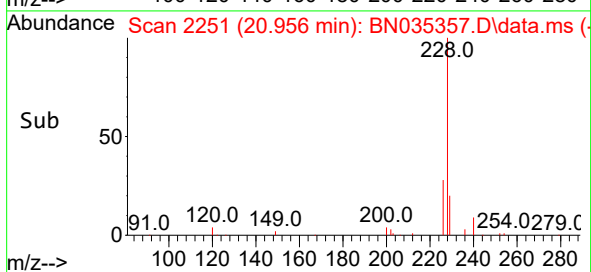
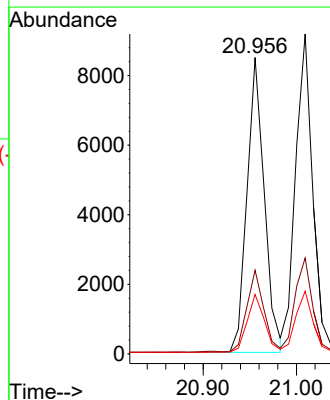
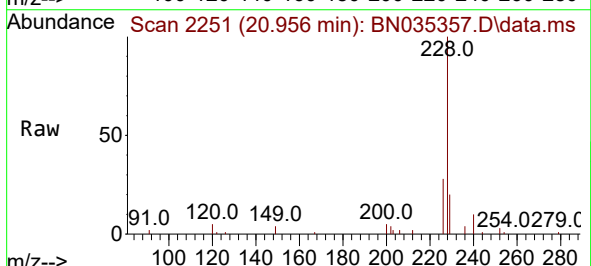
Tgt Ion:228 Resp: 10934

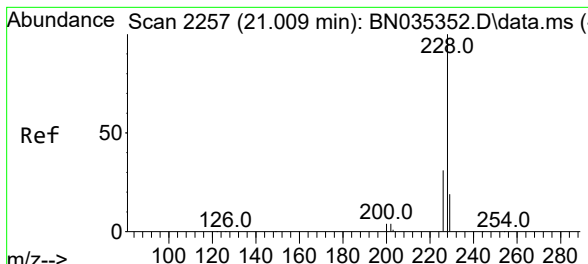
Ion Ratio Lower Upper

228 100

226 28.2 22.5 33.7

229 20.1 15.8 23.8

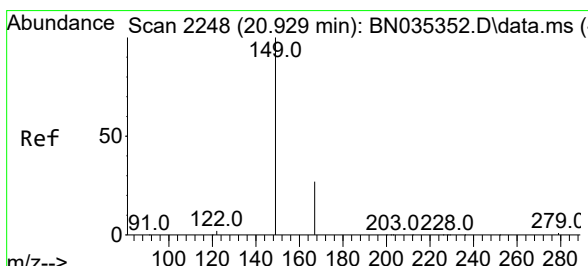
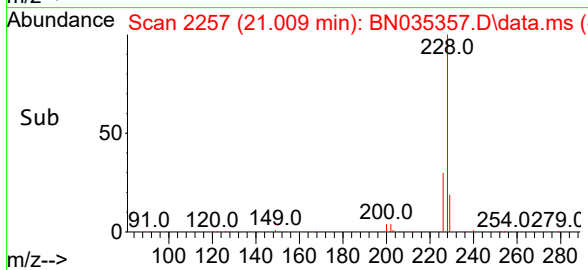
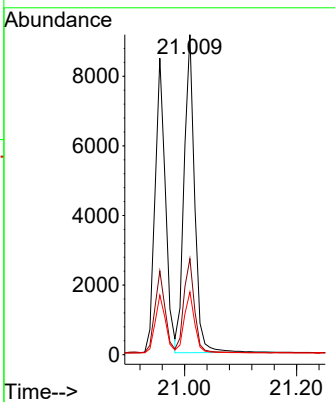
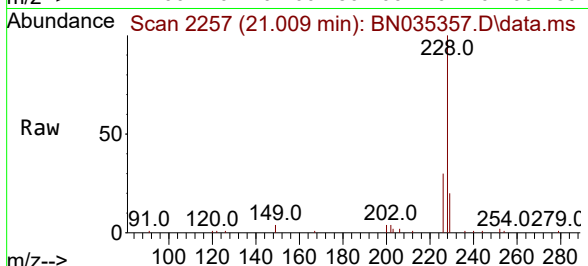




#33
 Chrysene
 Concen: 0.436 ng
 RT: 21.009 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

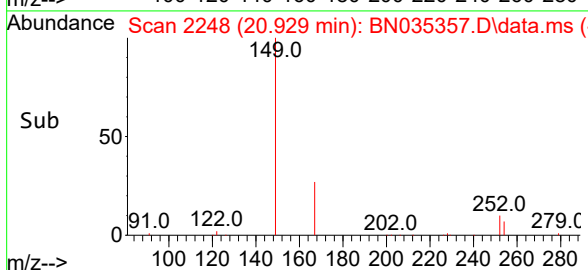
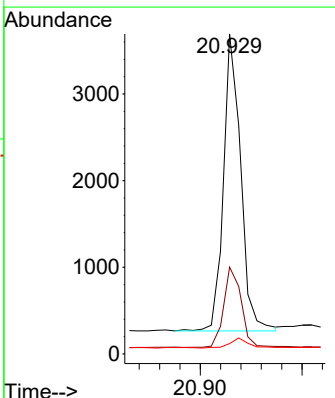
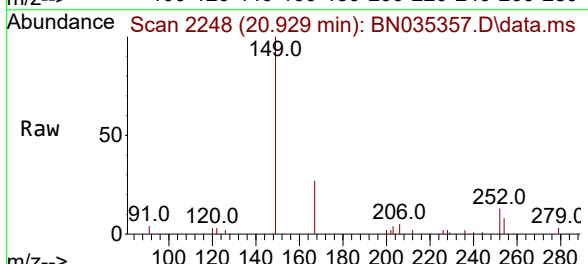
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

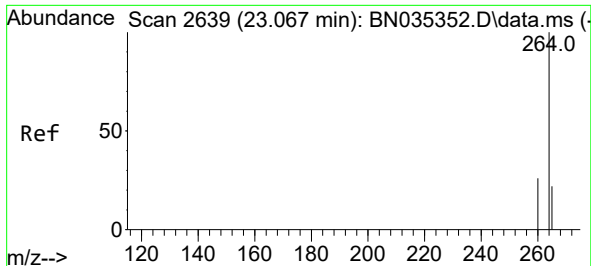
Tgt Ion:228	Resp:	11926
Ion Ratio	Lower	Upper
228	100	
226	30.0	24.6 37.0
229	19.6	15.9 23.9



#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

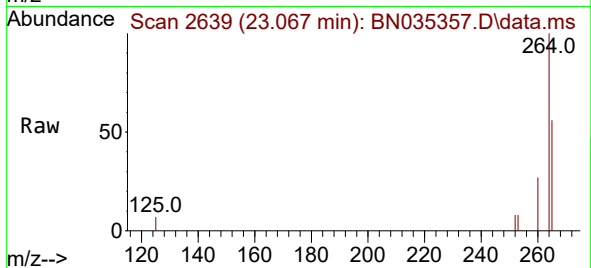
Tgt Ion:149	Resp:	4016
Ion Ratio	Lower	Upper
149	100	
167	27.7	22.2 33.4
279	3.7	2.7 4.1





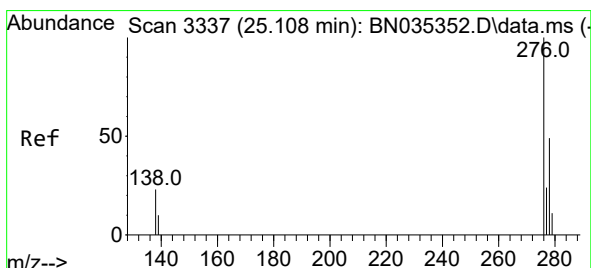
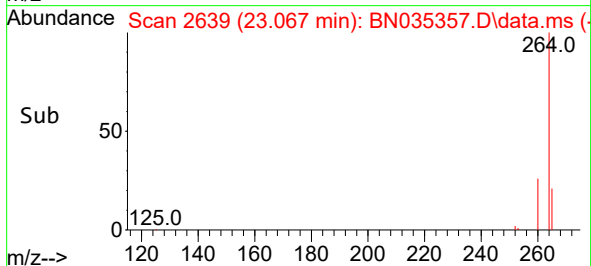
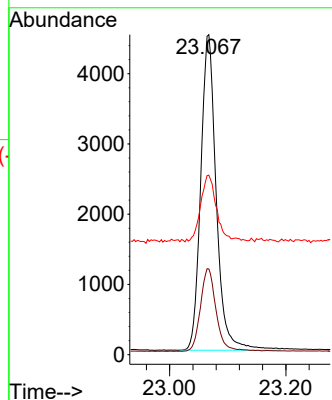
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:264 Resp: 8338

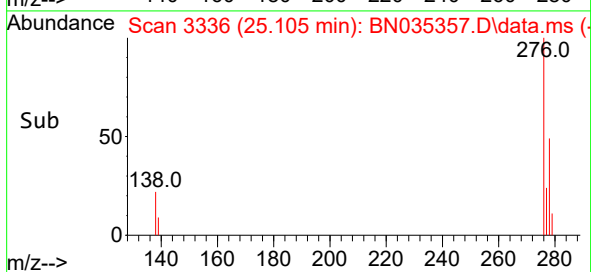
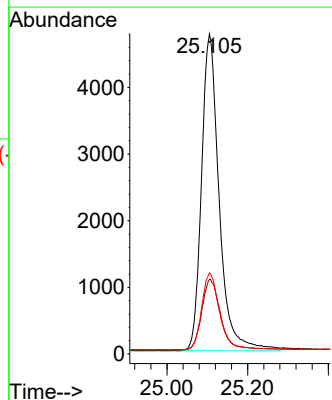
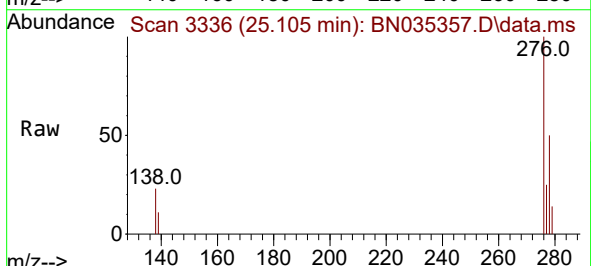
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4

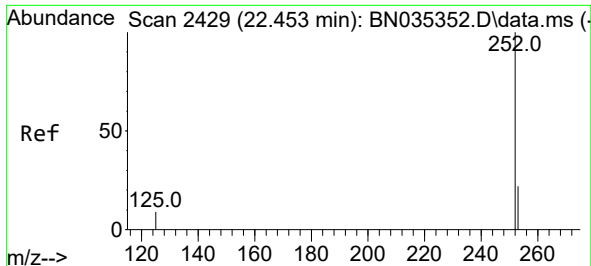


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

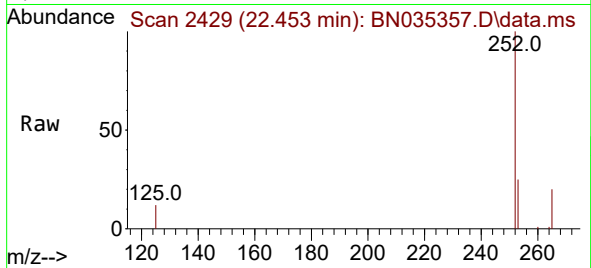
Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6



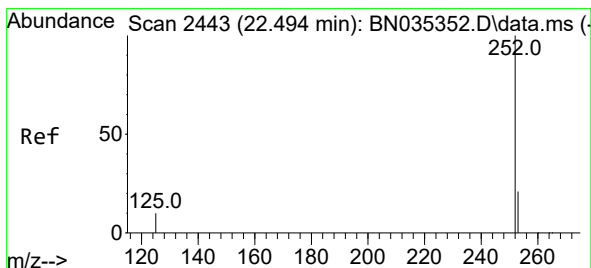
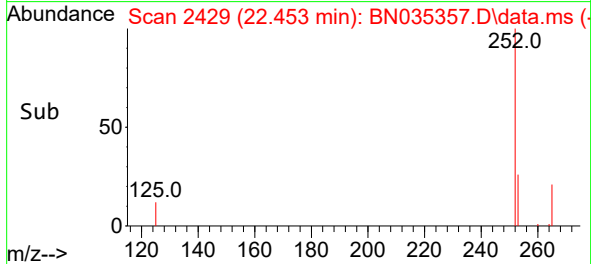
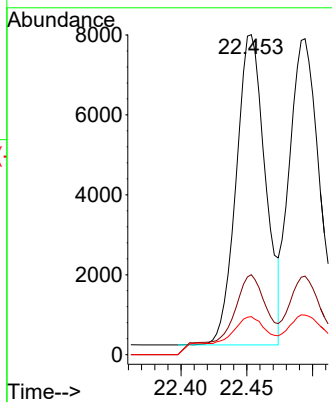


#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

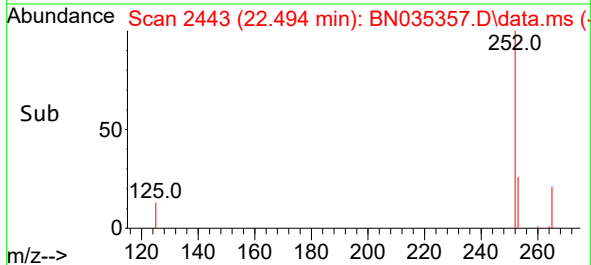
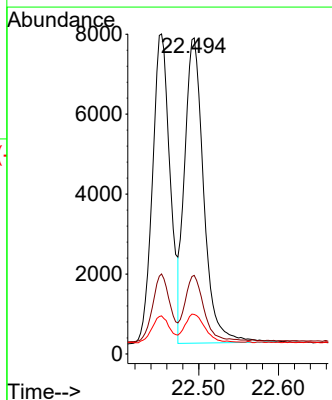
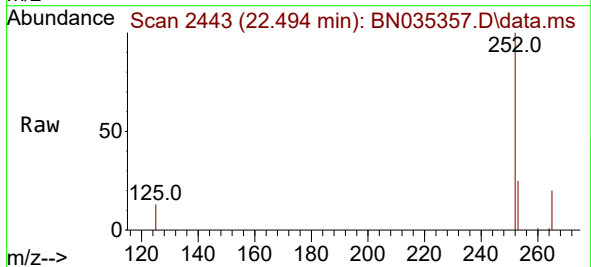


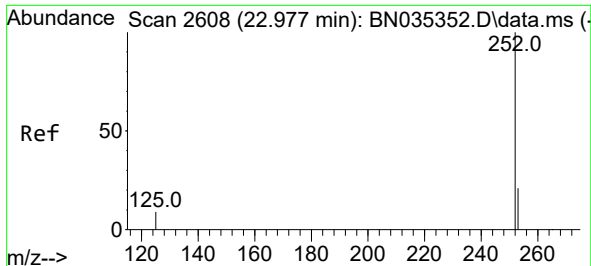
Tgt Ion:252 Resp: 12988
Ion Ratio Lower Upper
252 100
253 25.0 19.6 29.4
125 11.9 9.6 14.4



#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

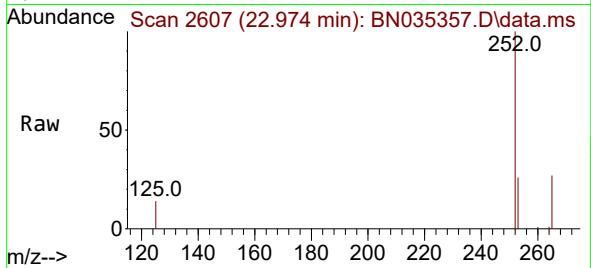
Tgt Ion:252 Resp: 12669
Ion Ratio Lower Upper
252 100
253 24.8 19.5 29.3
125 12.5 10.2 15.4



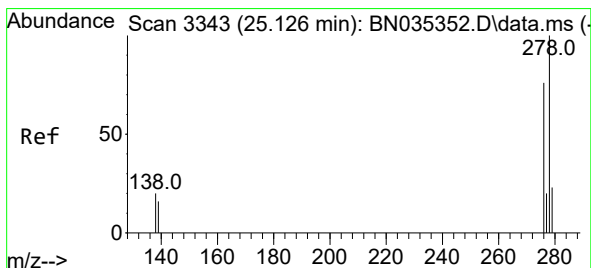
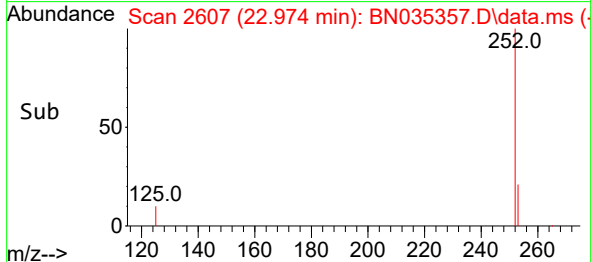
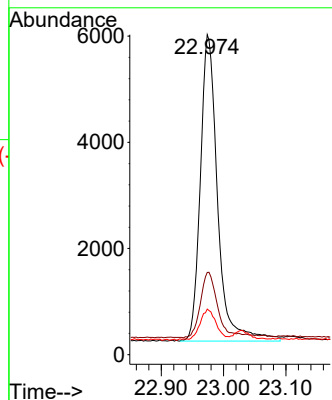


#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

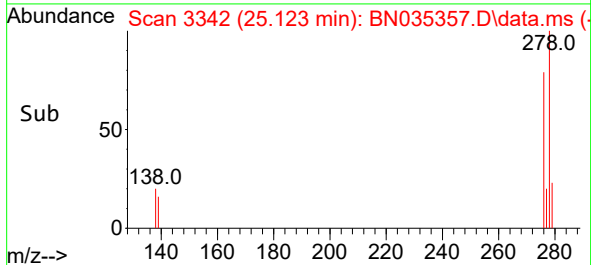
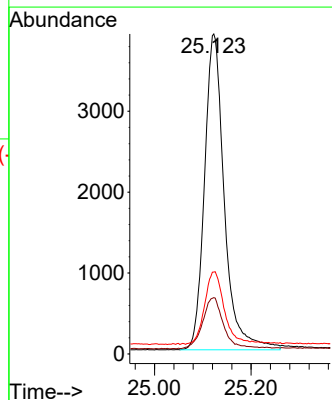
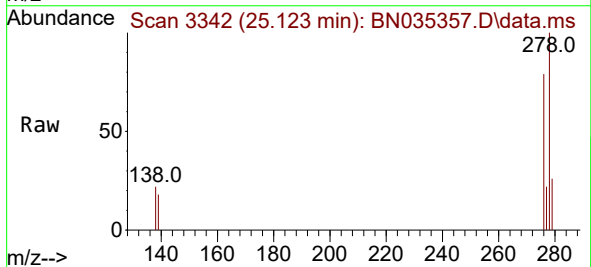


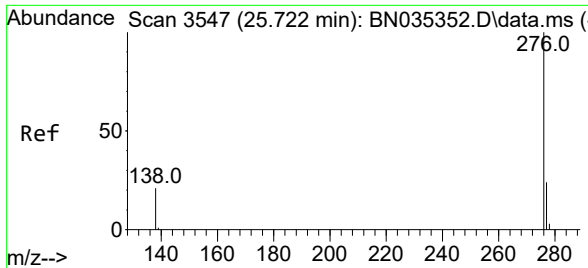
Tgt Ion:252 Resp: 11094
Ion Ratio Lower Upper
252 100
253 25.7 20.2 30.4
125 14.3 10.9 16.3



#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

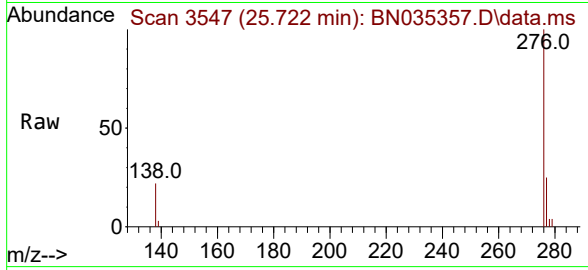
Tgt Ion:278 Resp: 11141
Ion Ratio Lower Upper
278 100
139 17.6 14.2 21.4
279 25.6 20.5 30.7



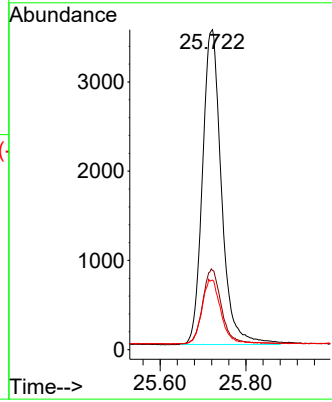
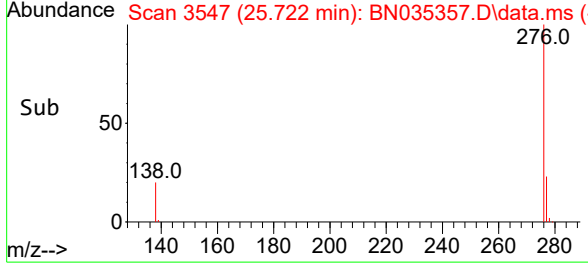


#41
 Benzo(g,h,i)perylene
 Concen: 0.404 ng
 RT: 25.722 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

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 : BN035749.D
 Acq On : 20 Dec 2024 19:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

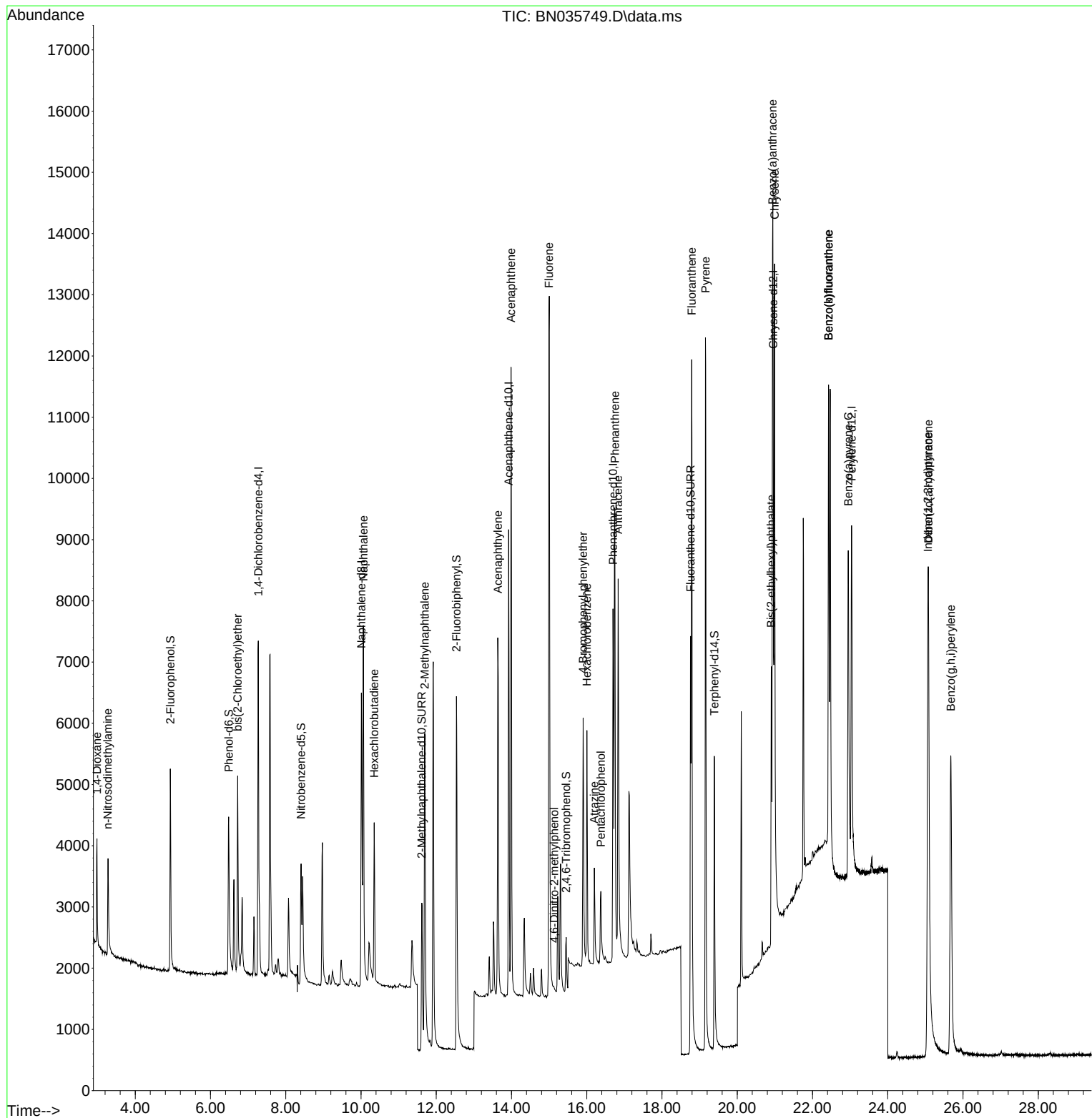
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.272	152	2885	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7460	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4592	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9182	0.400	ng	# 0.00
29) Chrysene-d12	20.956	240	7719	0.400	ng	0.00
35) Perylene-d12	23.038	264	7943	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2946	0.408	ng	0.00
5) Phenol-d6	6.484	99	3398	0.391	ng	0.00
8) Nitrobenzene-d5	8.408	82	2510	0.551	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4637	0.397	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	1079	0.331	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	7163	0.413	ng	0.00
27) Fluoranthene-d10	18.761	212	9858	0.379	ng	0.00
31) Terphenyl-d14	19.393	244	6880	0.452	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.982	88	1284	0.466	ng	96
3) n-Nitrosodimethylamine	3.271	42	1037	0.451	ng	# 96
6) bis(2-Chloroethyl)ether	6.723	93	2854	0.391	ng	99
9) Naphthalene	10.063	128	8115	0.412	ng	99
10) Hexachlorobutadiene	10.351	225	2104	0.464	ng	# 98
12) 2-Methylnaphthalene	11.697	142	5318	0.378	ng	99
16) Acenaphthylene	13.636	152	7458	0.387	ng	100
17) Acenaphthene	13.989	154	5179	0.405	ng	99
18) Fluorene	14.994	166	6721	0.367	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	99	0.110	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2111	0.393	ng	# 80
22) Hexachlorobenzene	16.003	284	3074	0.487	ng	96
23) Atrazine	16.202	200	1584	0.414	ng	97
24) Pentachlorophenol	16.376	266	1014	0.370	ng	87
25) Phenanthrene	16.748	178	9861	0.391	ng	100
26) Anthracene	16.835	178	8624	0.378	ng	99
28) Fluoranthene	18.789	202	12002	0.353	ng	100
30) Pyrene	19.156	202	12468	0.438	ng	99
32) Benzo(a)anthracene	20.938	228	9472	0.351	ng	99
33) Chrysene	20.992	228	11952	0.429	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4632	0.434	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.067	276	12531	0.404	ng	96
37) Benzo(b)fluoranthene	22.427	252	13708	0.472	ng	95
38) Benzo(k)fluoranthene	22.427	252	13708	0.479	ng	96
39) Benzo(a)pyrene	22.950	252	9304	0.389	ng	# 91
40) Dibenzo(a,h)anthracene	25.082	278	9530	0.389	ng	95
41) Benzo(g,h,i)perylene	25.675	276	11213	0.438	ng	99

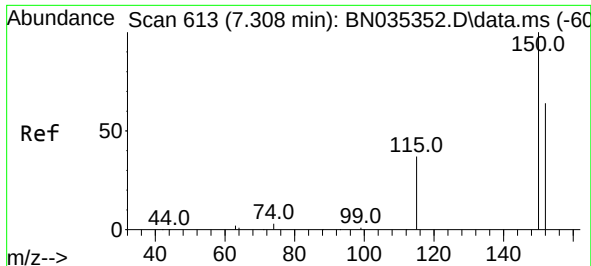
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

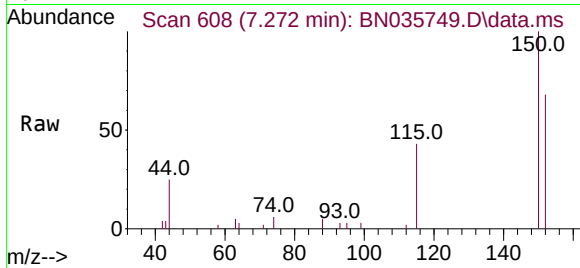
Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



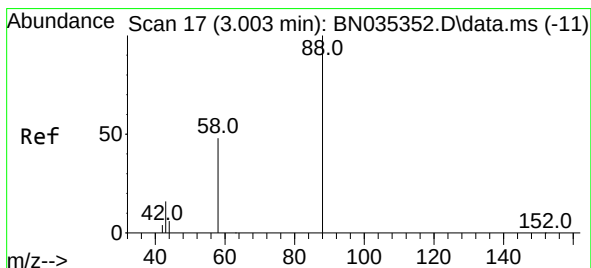
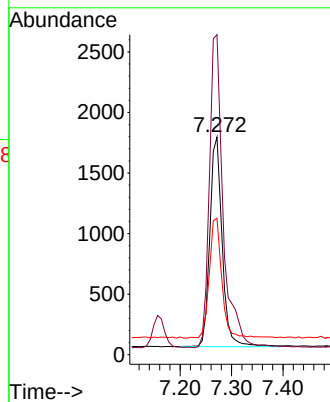
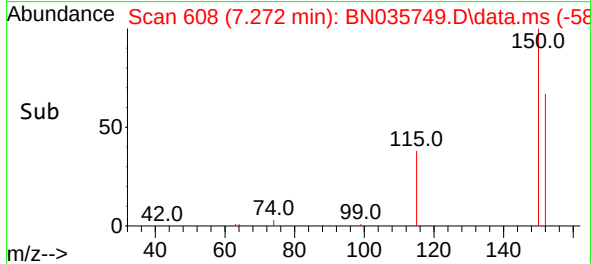


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.272 min Scan# 60
 Delta R.T. -0.000 min
 Lab File: BN035749.D
 Acq: 20 Dec 2024 19:33

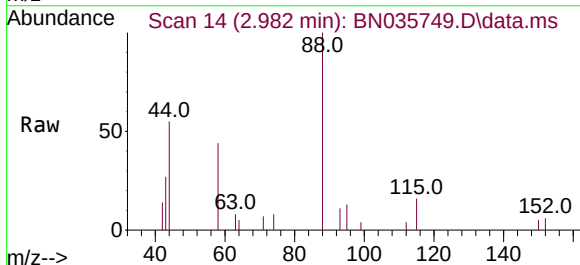
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



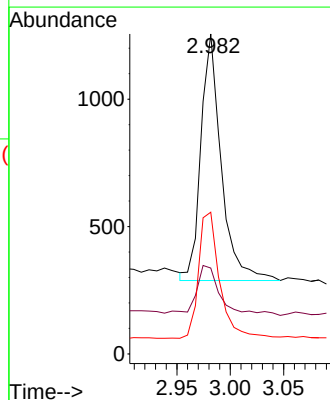
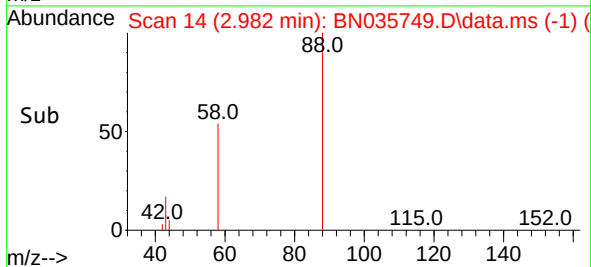
Tgt Ion:152 Resp: 2885
 Ion Ratio Lower Upper
 152 100
 150 147.0 124.0 186.0
 115 62.7 49.6 74.4

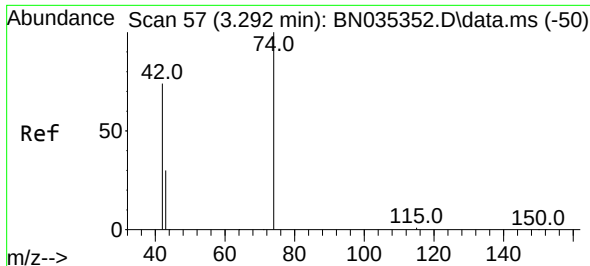


#2
 1,4-Dioxane
 Concen: 0.466 ng
 RT: 2.982 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN035749.D
 Acq: 20 Dec 2024 19:33



Tgt Ion: 88 Resp: 1284
 Ion Ratio Lower Upper
 88 100
 43 24.5 17.2 25.8
 58 53.3 44.5 66.7

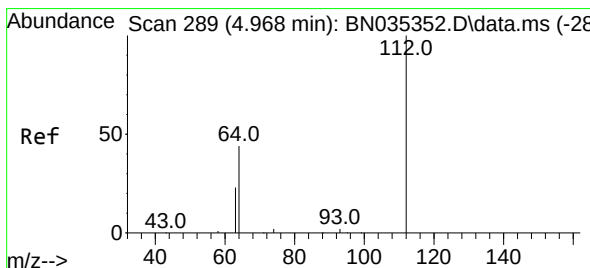
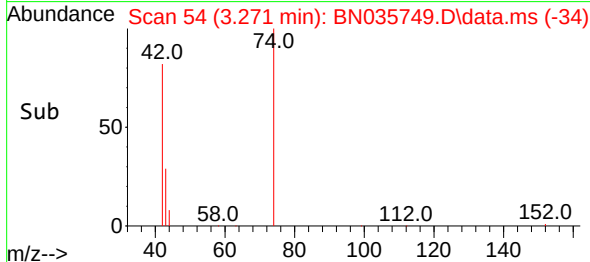
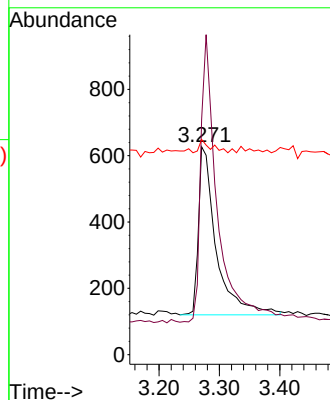
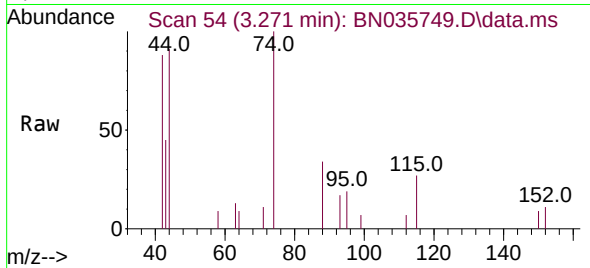




#3
n-Nitrosodimethylamine
Concen: 0.451 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

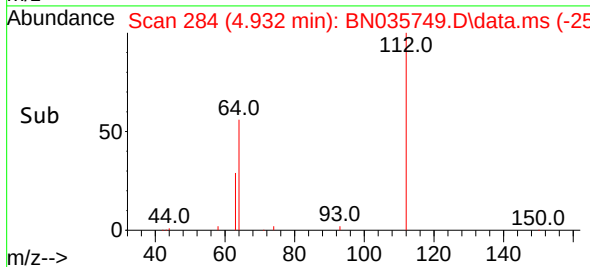
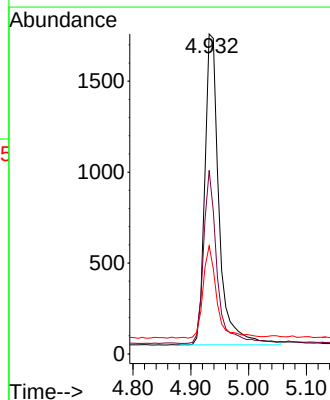
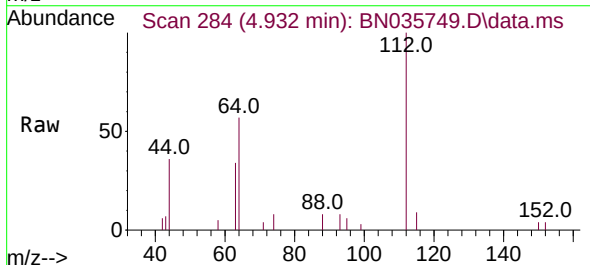
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

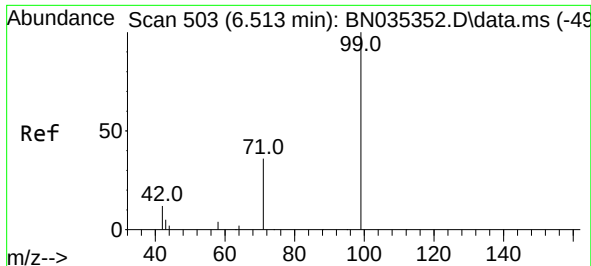
Tgt Ion: 42 Resp: 1037
Ion Ratio Lower Upper
42 100
74 160.8 124.9 187.3
44 7.0 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.408 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 112 Resp: 2946
Ion Ratio Lower Upper
112 100
64 52.4 39.8 59.8
63 28.5 21.0 31.6

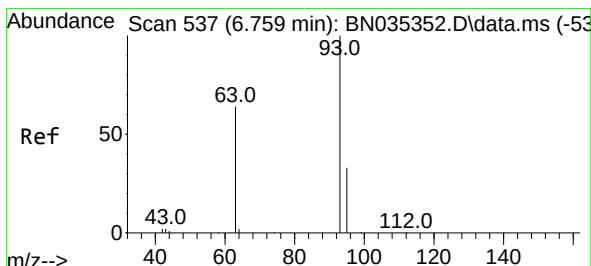
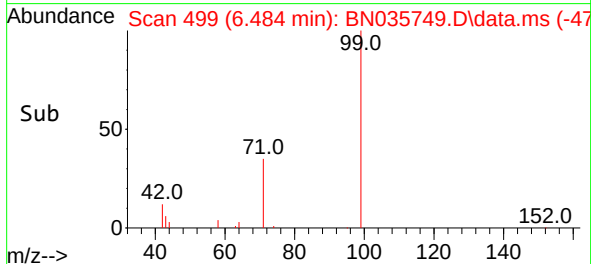
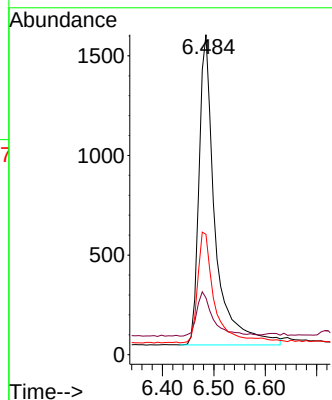
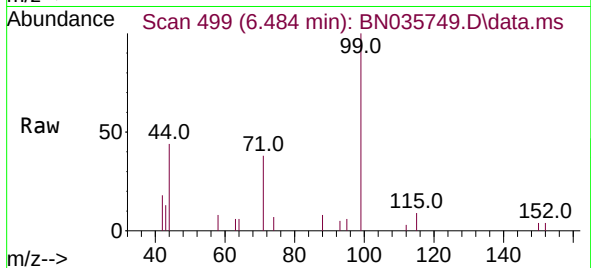




#5
Phenol-d6
Concen: 0.391 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

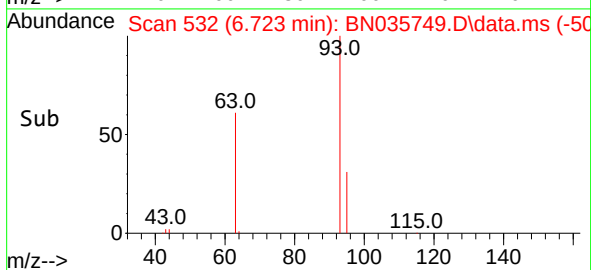
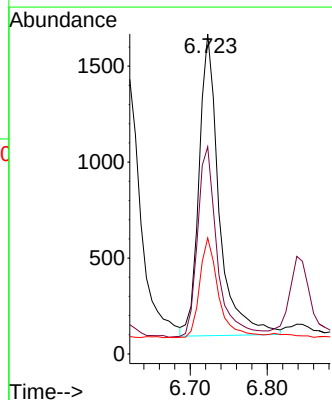
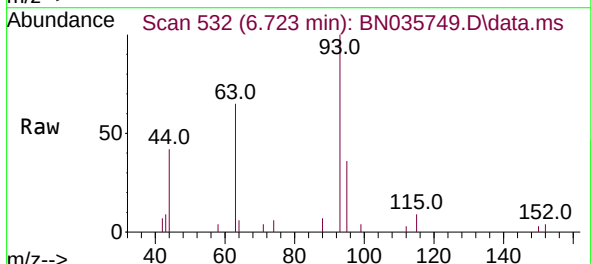
Instrument :
BNA_N
ClientSampleId :
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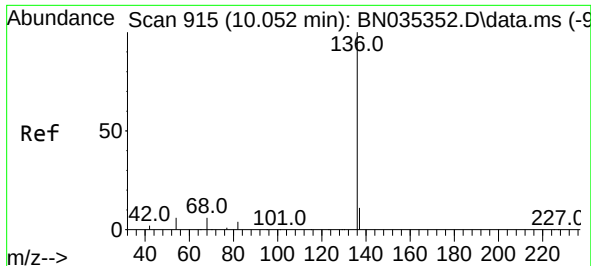
Tgt Ion:	99	Resp:	3398
Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	37.5	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:	93	Resp:	2854
Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.1	25.7	38.5

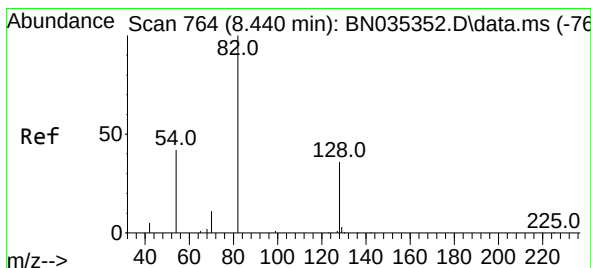
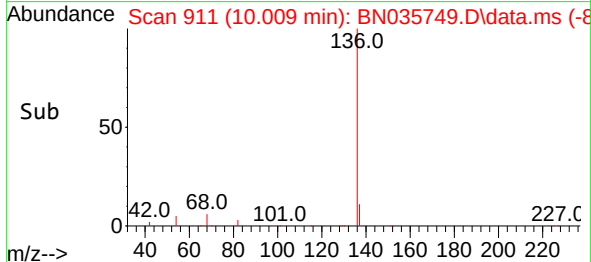
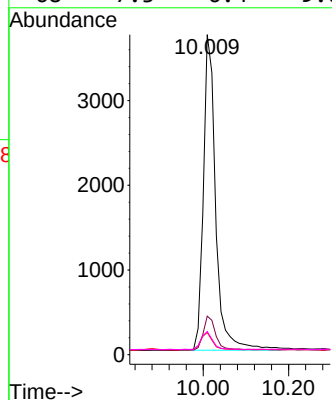
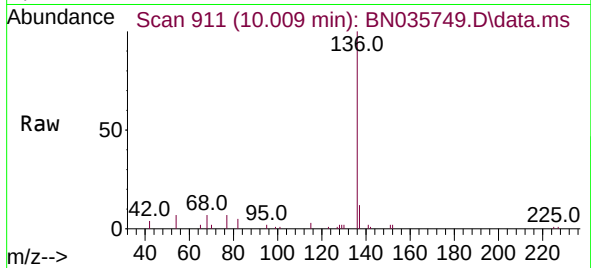




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

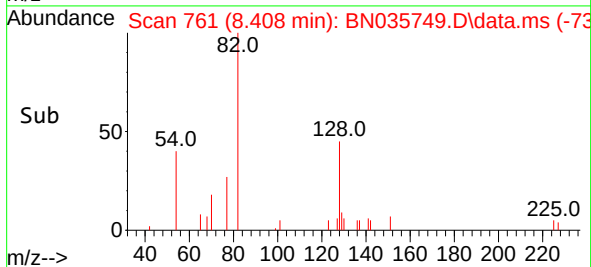
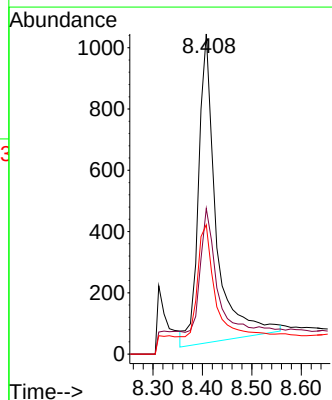
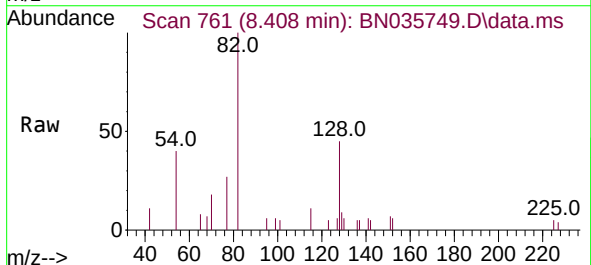
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

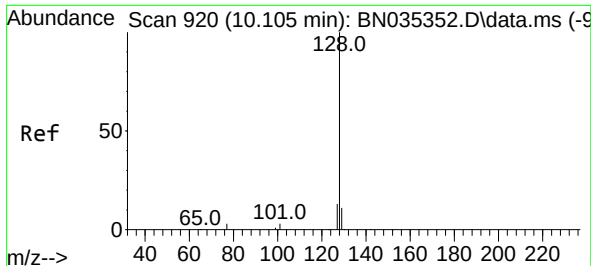
Tgt Ion:	136	Resp:	7460
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	6.9	6.1	9.1
68	7.3	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.551 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:	82	Resp:	2510
Ion	Ratio	Lower	Upper
82	100		
128	45.5	33.4	50.0
54	40.4	36.7	55.1

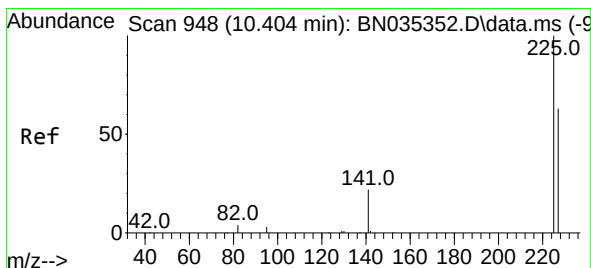
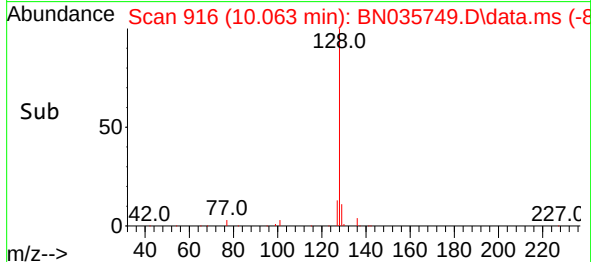
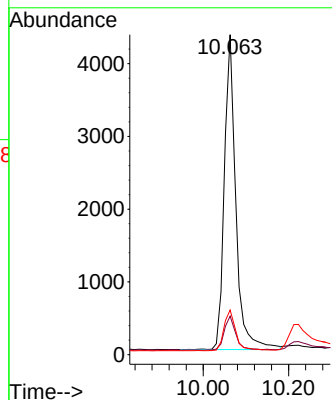
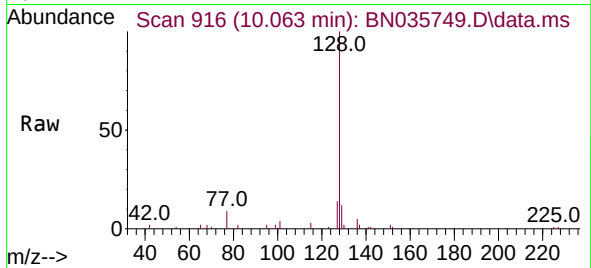




#9
Naphthalene
Concen: 0.412 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

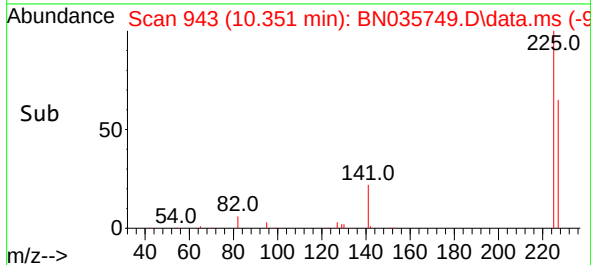
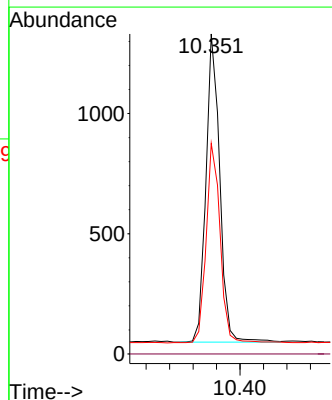
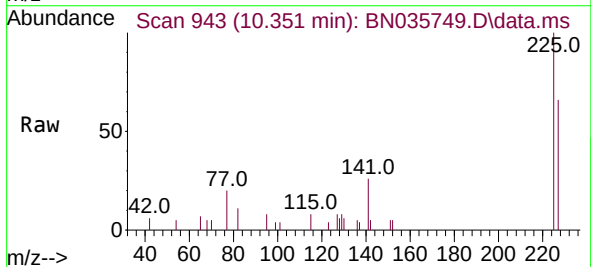
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

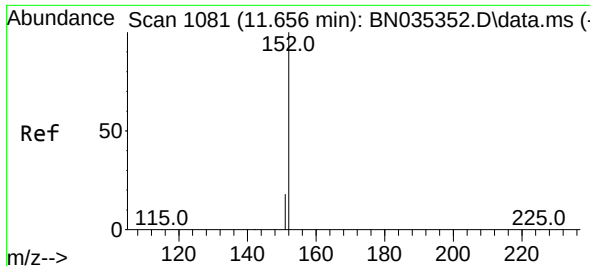
Tgt Ion:128 Resp: 8115
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 13.9 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.464 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:225 Resp: 2104
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.6 51.3 76.9

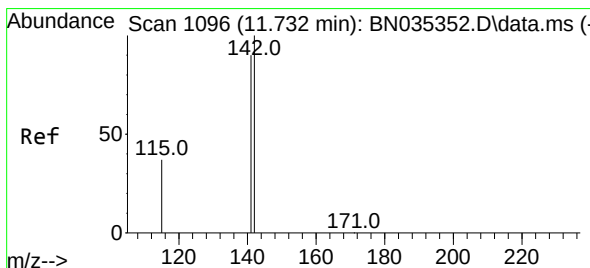
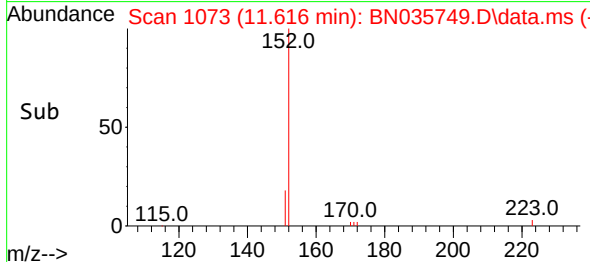
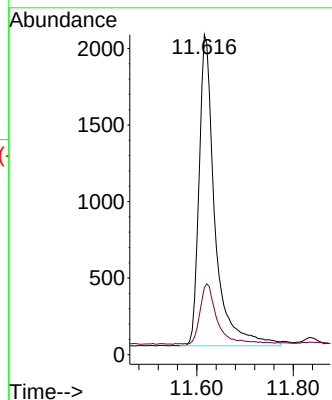
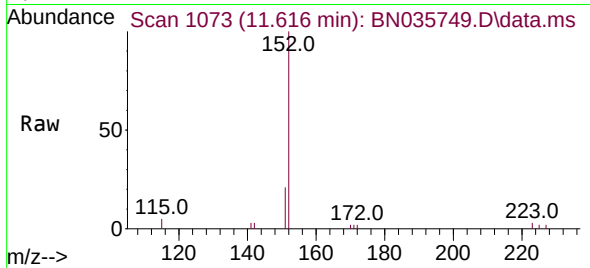




#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

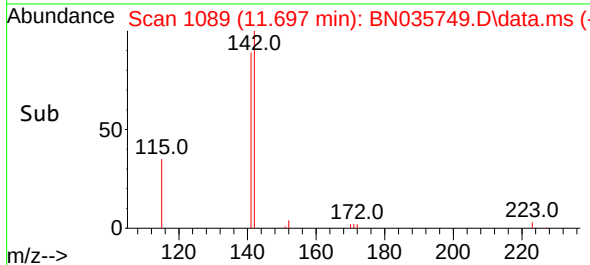
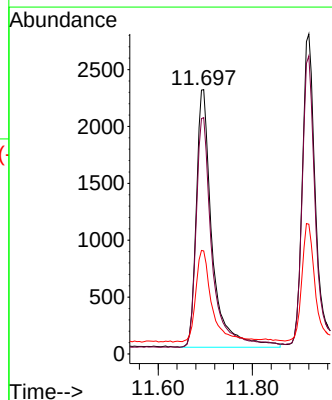
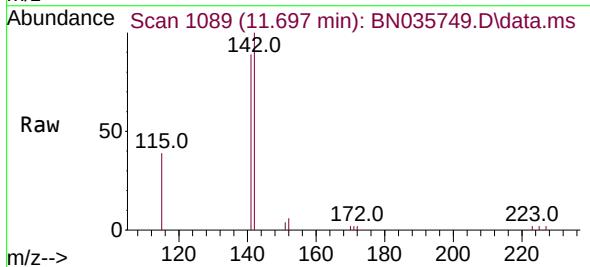
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

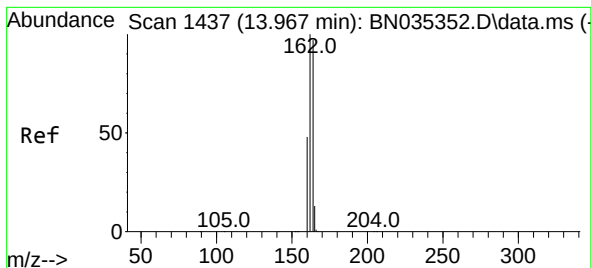
Tgt Ion:152 Resp: 4637
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:142 Resp: 5318
Ion Ratio Lower Upper
142 100
141 89.4 72.2 108.4
115 39.0 31.4 47.0

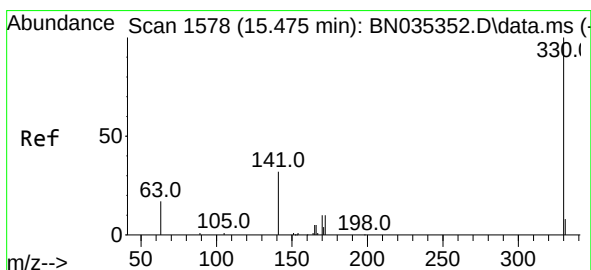
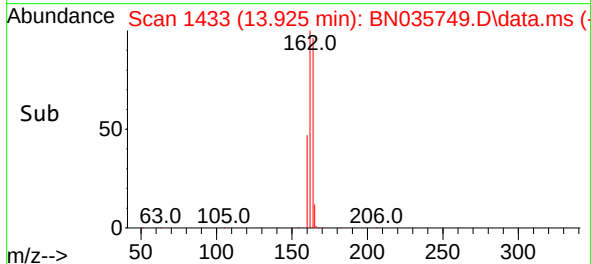
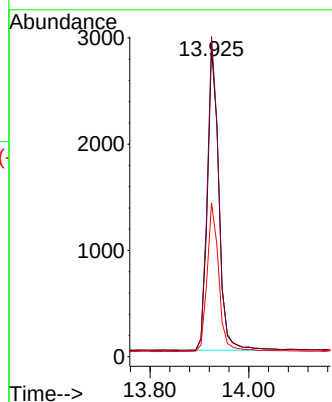
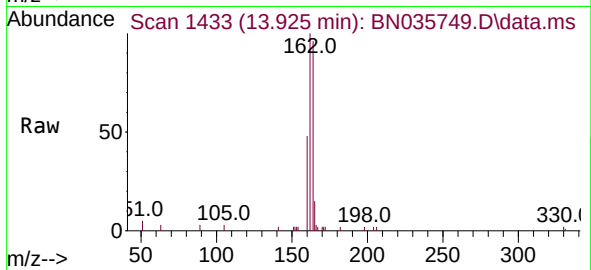




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

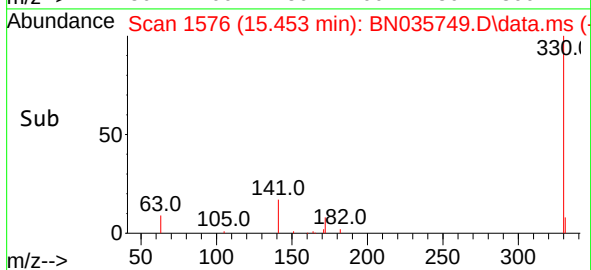
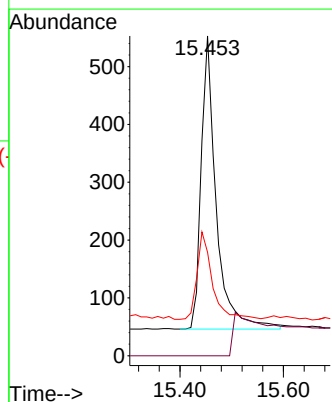
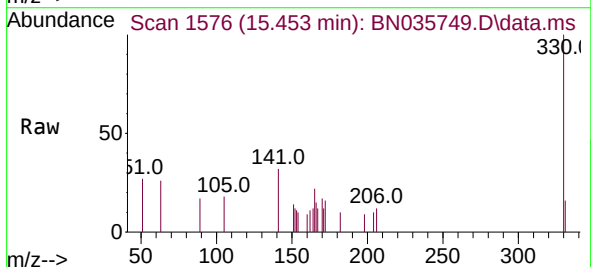
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

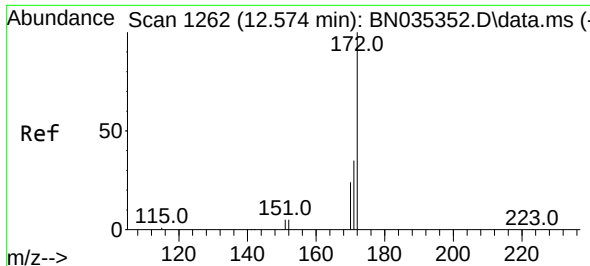
Tgt Ion:164 Resp: 4592
Ion Ratio Lower Upper
164 100
162 103.6 82.2 123.2
160 49.8 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.331 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:330 Resp: 1079
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.6 26.6 40.0

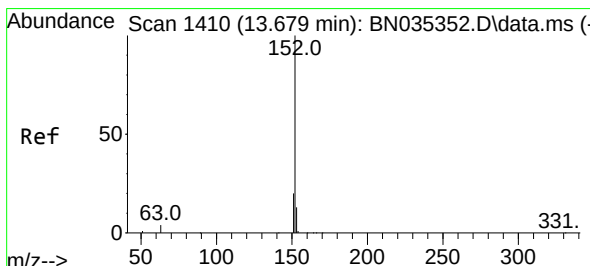
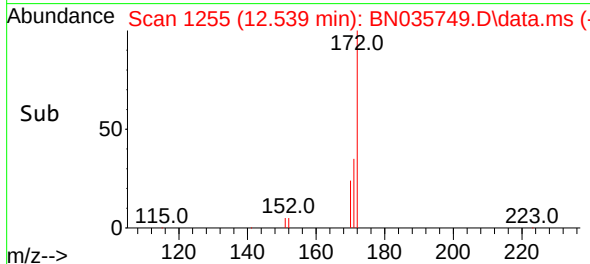
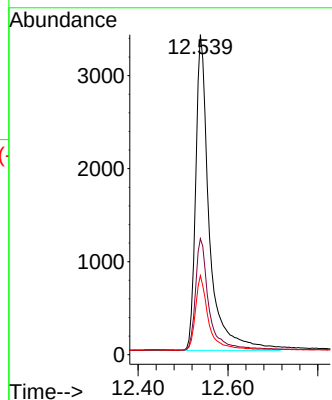
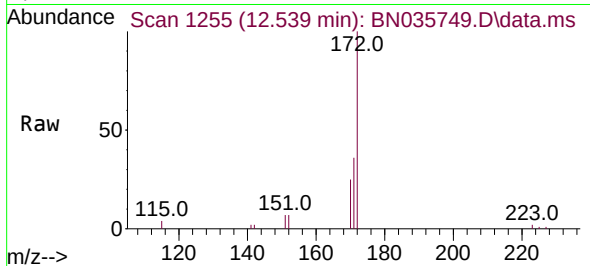




#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.539 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

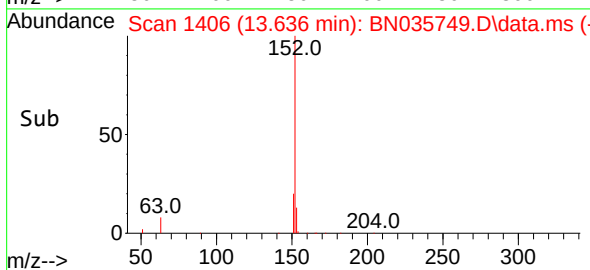
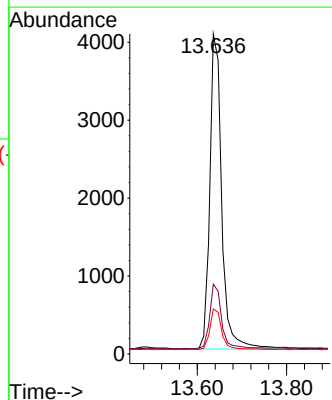
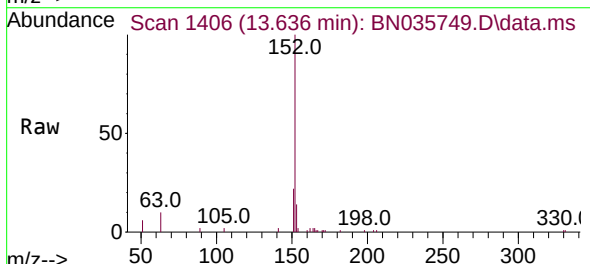
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

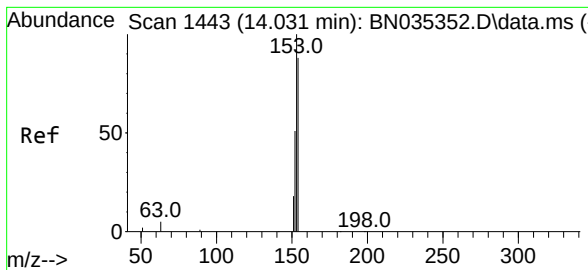
Tgt Ion:	172	Resp:	7163
Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.7	19.8	29.8



#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:	152	Resp:	7458
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.2	10.4	15.6

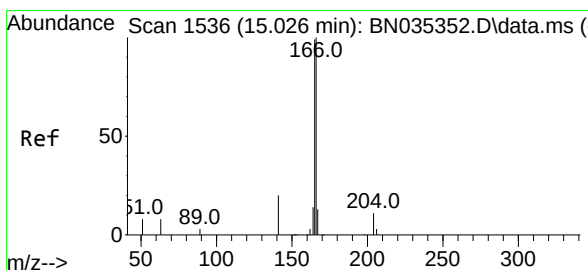
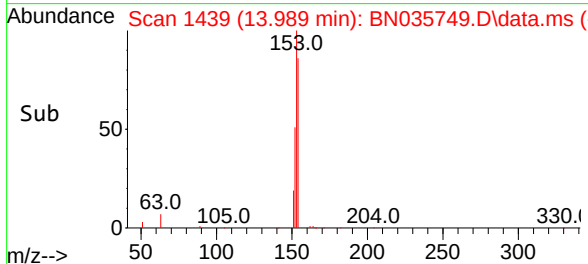
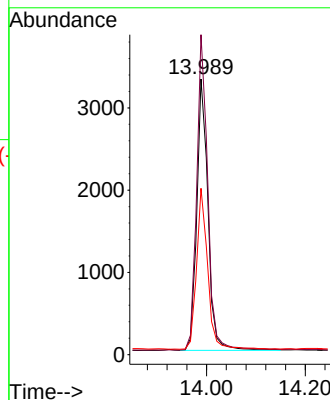
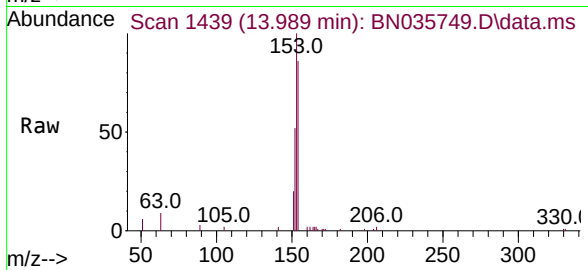




#17
Acenaphthene
Concen: 0.405 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

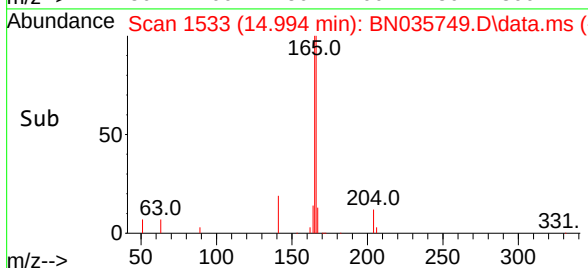
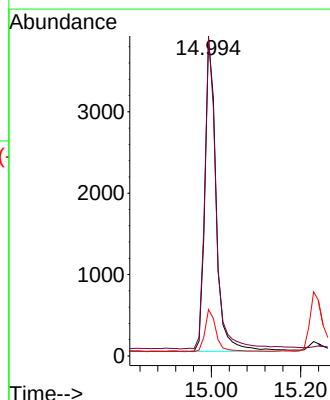
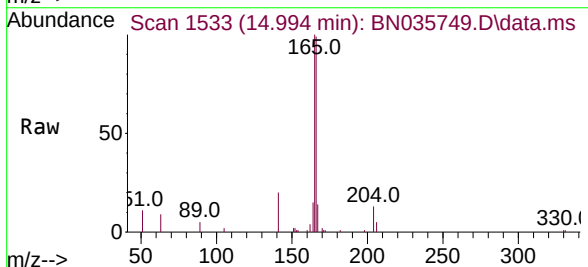
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

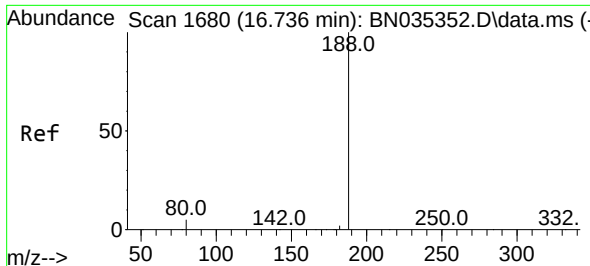
Tgt Ion:154 Resp: 5179
Ion Ratio Lower Upper
154 100
153 115.5 92.6 139.0
152 59.2 49.0 73.6



#18
Fluorene
Concen: 0.367 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:166 Resp: 6721
Ion Ratio Lower Upper
166 100
165 99.7 79.7 119.5
167 13.6 10.8 16.2

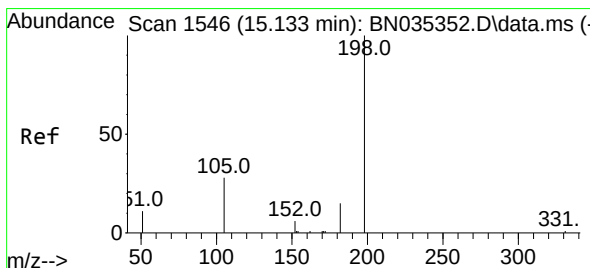
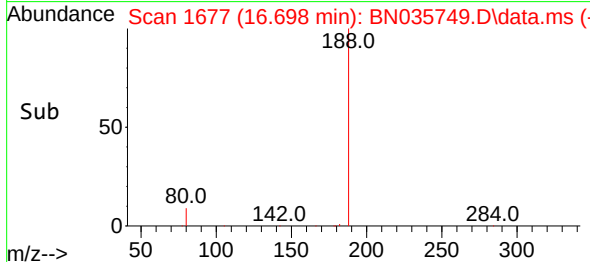
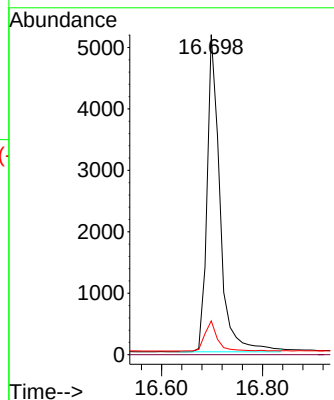
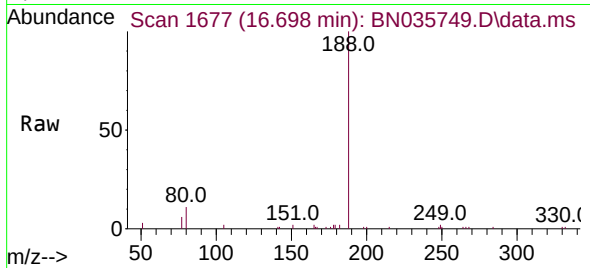




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

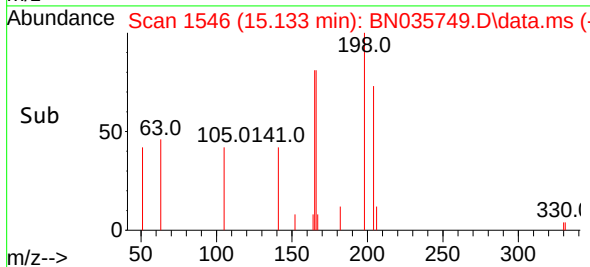
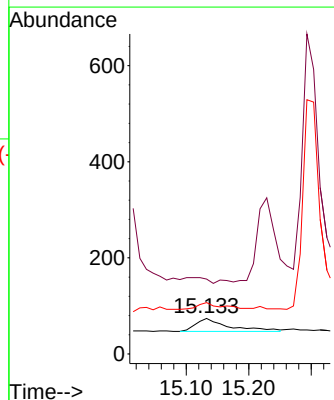
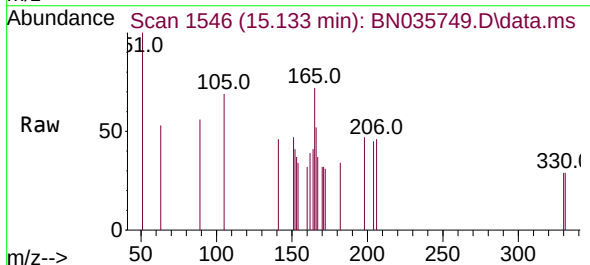
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

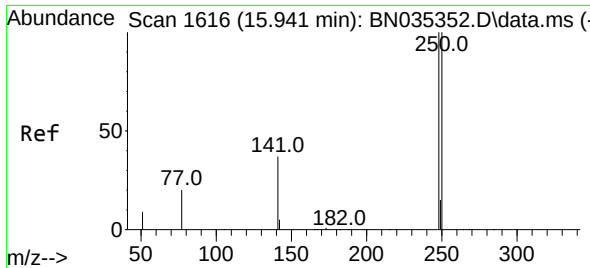
Tgt Ion:188 Resp: 9182
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.6 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.110 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:198 Resp: 99
Ion Ratio Lower Upper
198 100
51 210.8 46.5 69.7#
105 144.6 45.3 67.9#

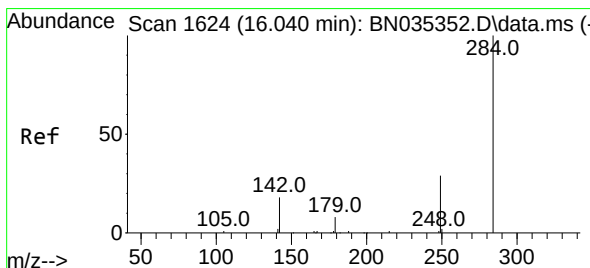
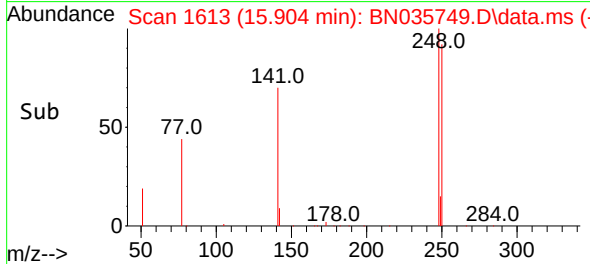
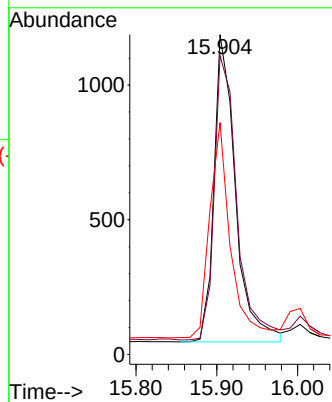
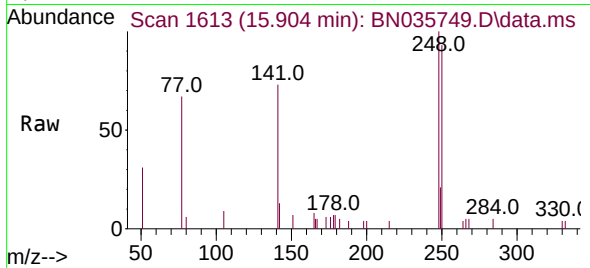




#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

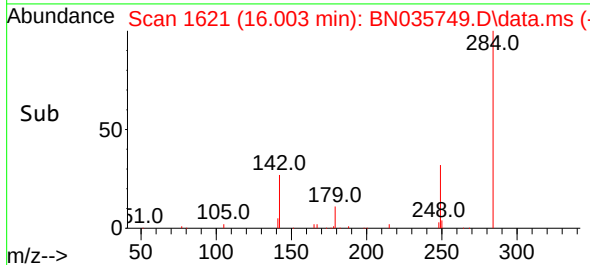
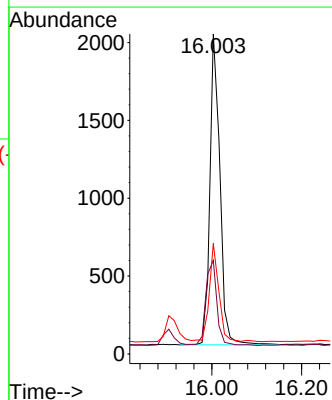
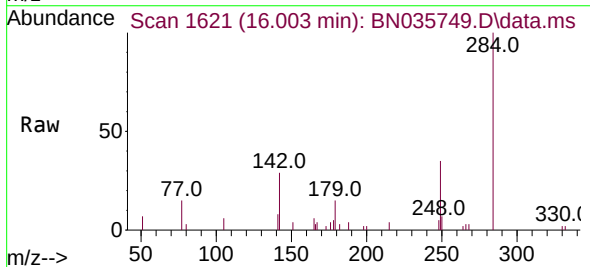
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

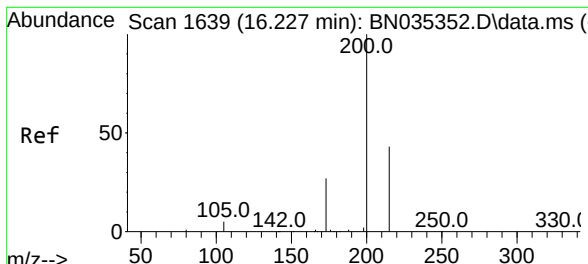
Tgt Ion:248 Resp: 2111
Ion Ratio Lower Upper
248 100
250 93.4 80.6 120.8
141 72.5 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.487 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:284 Resp: 3074
Ion Ratio Lower Upper
284 100
142 30.3 26.7 40.1
249 29.7 24.6 36.8

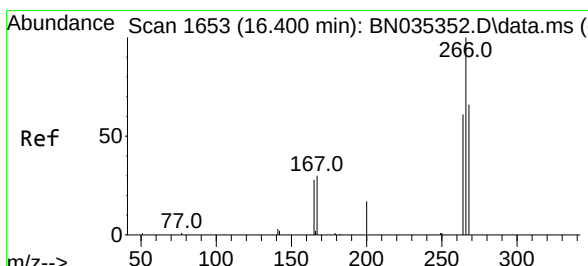
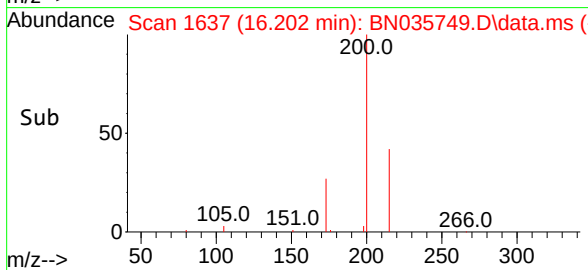
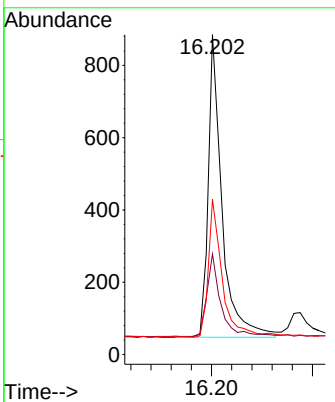
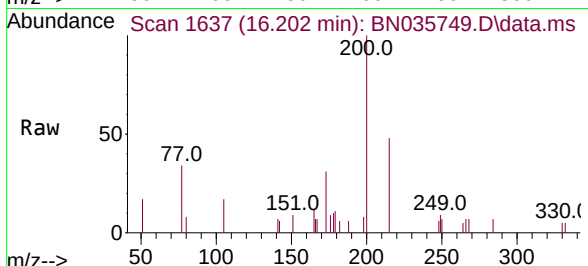




#23
 Atrazine
 Concen: 0.414 ng
 RT: 16.202 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: BN035749.D
 Acq: 20 Dec 2024 19:33

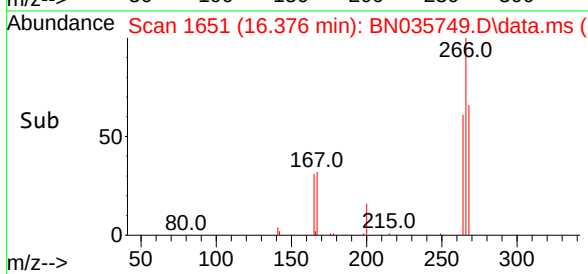
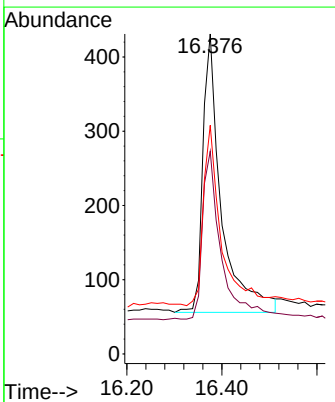
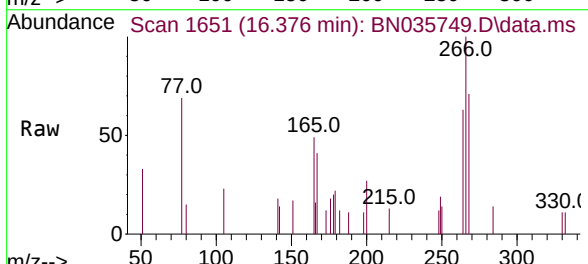
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

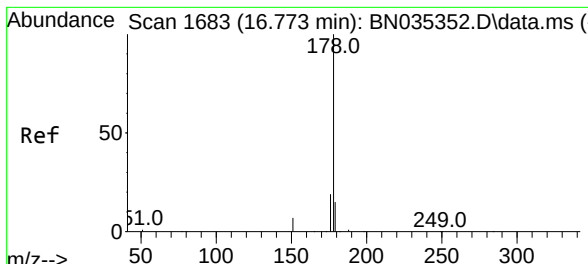
Tgt Ion:	200	Resp:	1584
Ion Ratio	Lower	Upper	
200	100		
173	31.4	24.1	36.1
215	48.5	36.9	55.3



#24
 Pentachlorophenol
 Concen: 0.370 ng
 RT: 16.376 min Scan# 1651
 Delta R.T. -0.000 min
 Lab File: BN035749.D
 Acq: 20 Dec 2024 19:33

Tgt Ion:	266	Resp:	1014
Ion Ratio	Lower	Upper	
266	100		
264	61.4	42.3	63.5
268	64.0	43.3	64.9

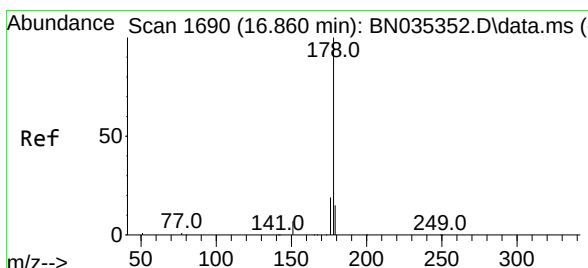
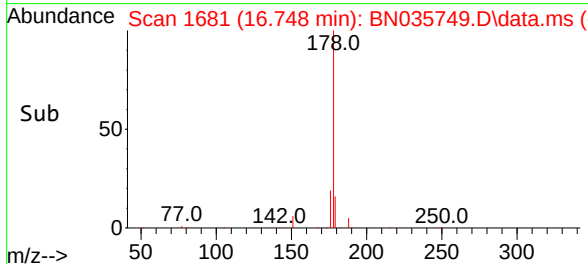
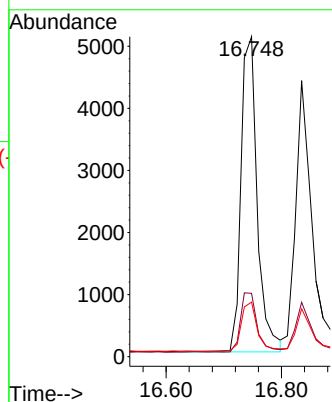
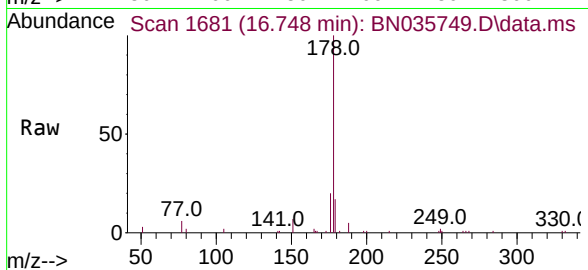




#25
Phenanthrene
Concen: 0.391 ng
RT: 16.748 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

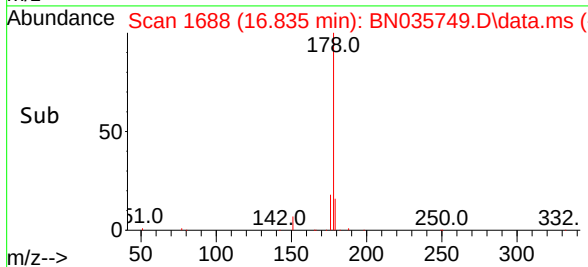
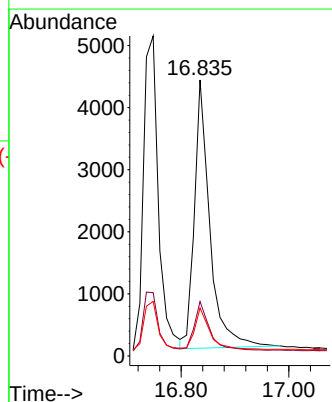
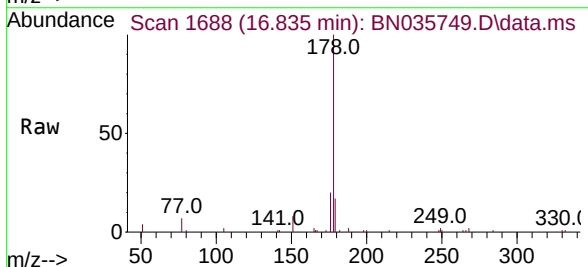
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

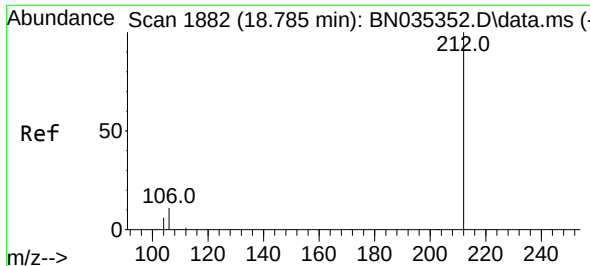
Tgt Ion:178 Resp: 9861
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.378 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:178 Resp: 8624
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.6
179 15.3 12.6 18.8

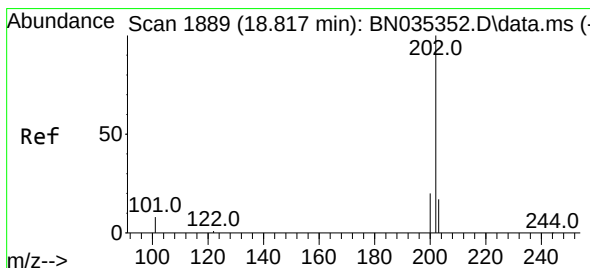
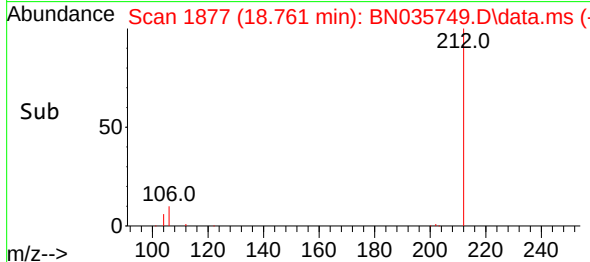
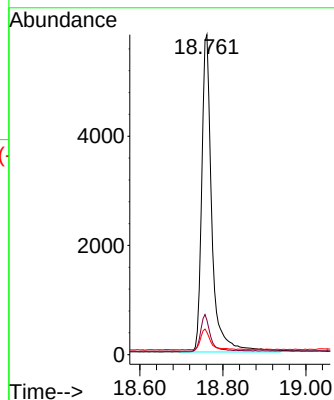
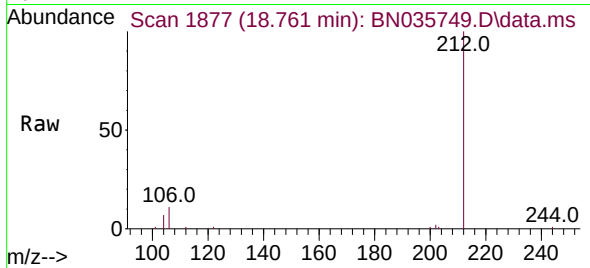




#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 18.761 min Scan# 1877
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

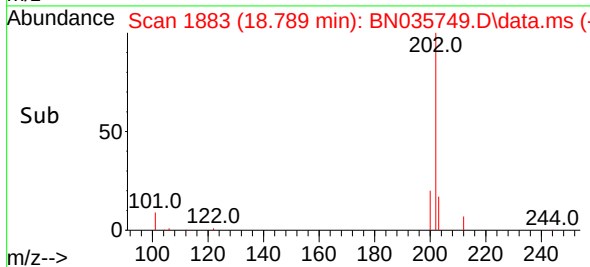
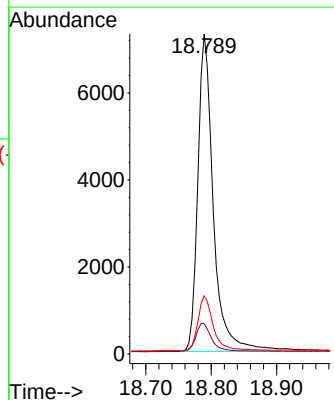
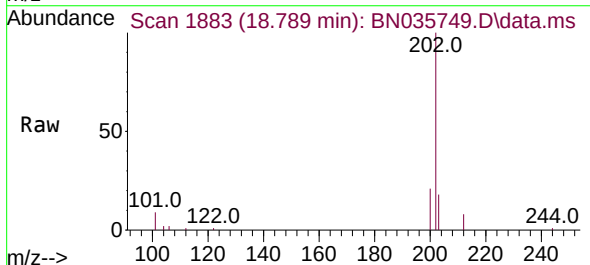
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

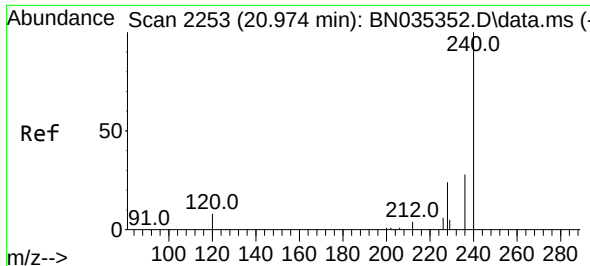
Tgt Ion:212 Resp: 9858
Ion Ratio Lower Upper
212 100
106 11.0 9.2 13.8
104 6.4 5.3 7.9



#28
Fluoranthene
Concen: 0.353 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12002
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.1 13.7 20.5

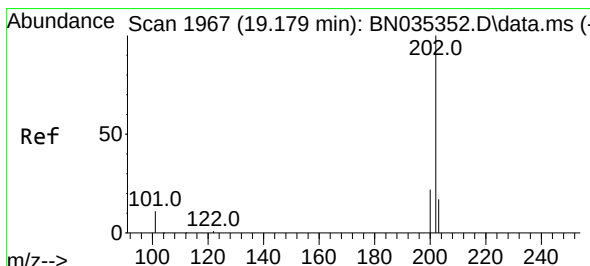
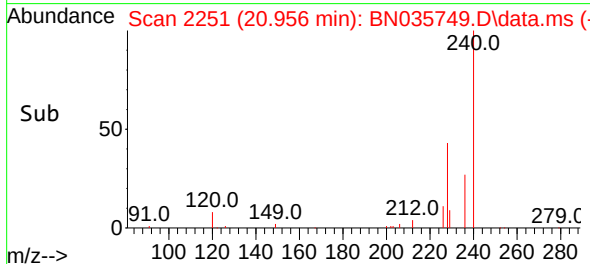
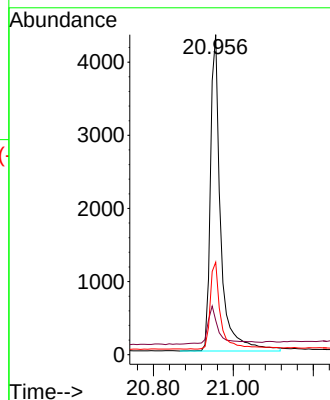
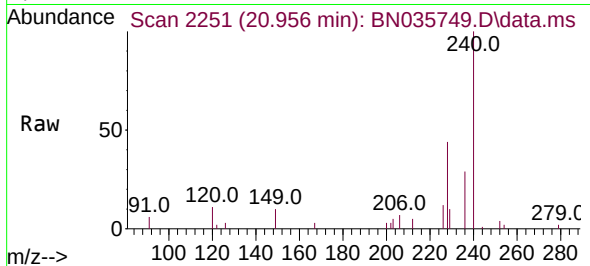




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

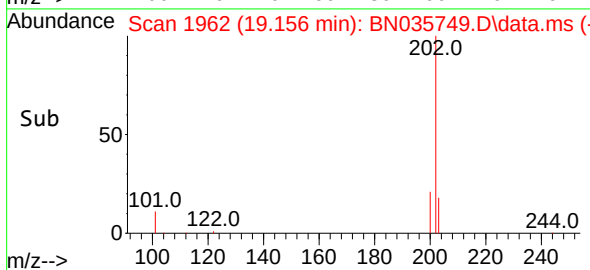
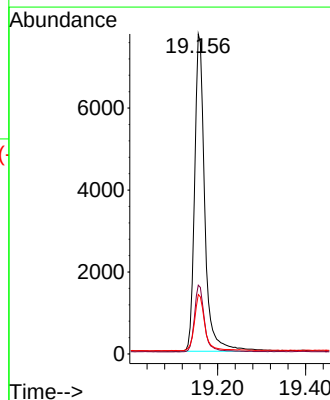
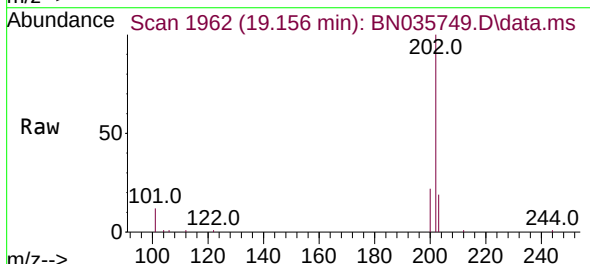
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

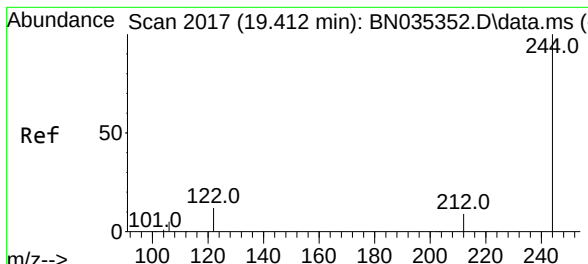
Tgt Ion:240 Resp: 7719
Ion Ratio Lower Upper
240 100
120 10.7 7.9 11.9
236 28.9 22.9 34.3



#30
Pyrene
Concen: 0.438 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12468
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.4
203 17.8 14.3 21.5

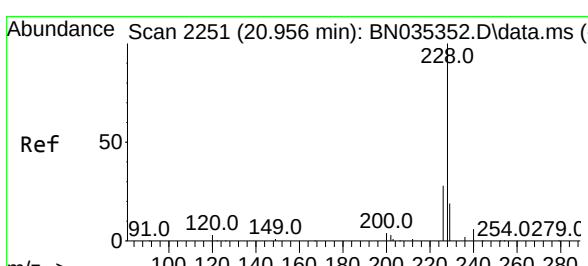
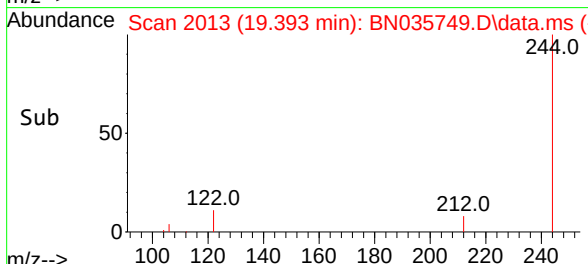
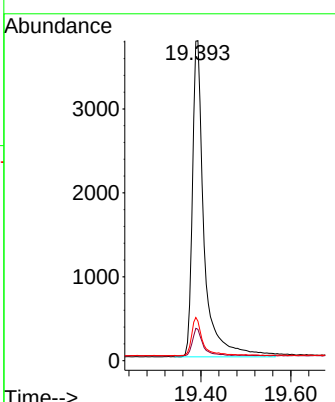
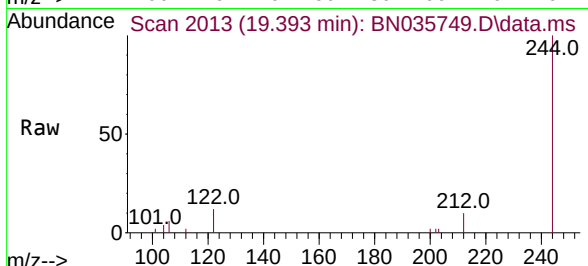




#31
 Terphenyl-d14
 Concen: 0.452 ng
 RT: 19.393 min Scan# 2017
 Delta R.T. 0.005 min
 Lab File: BN035749.D
 Acq: 20 Dec 2024 19:33

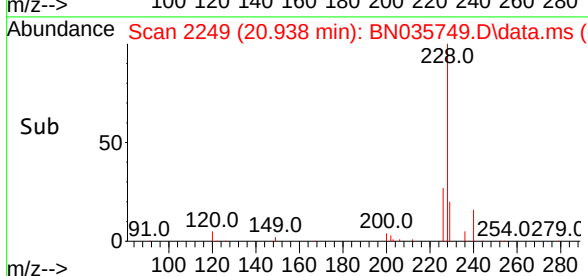
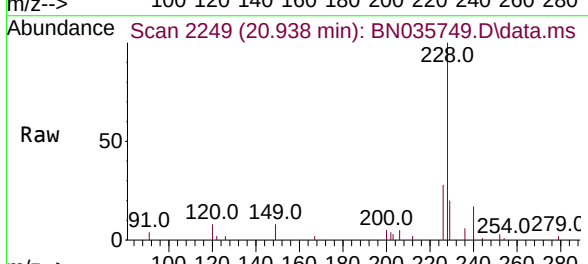
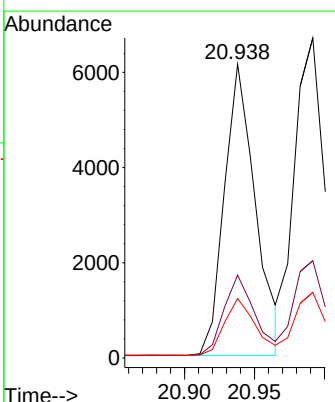
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

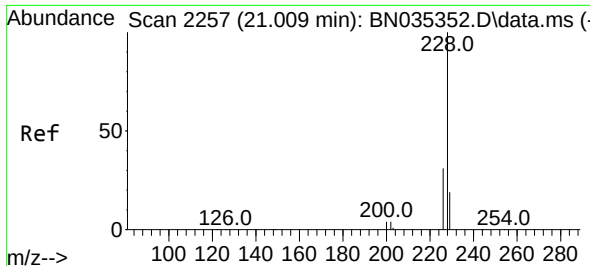
Tgt Ion:	244	Resp:	6880
Ion Ratio	Lower	Upper	
244	100		
212	9.8	8.1	12.1
122	12.4	10.3	15.5



#32
 Benzo(a)anthracene
 Concen: 0.351 ng
 RT: 20.938 min Scan# 2249
 Delta R.T. -0.000 min
 Lab File: BN035749.D
 Acq: 20 Dec 2024 19:33

Tgt Ion:	228	Resp:	9472
Ion Ratio	Lower	Upper	
228	100		
226	28.2	22.5	33.7
229	20.3	15.8	23.8

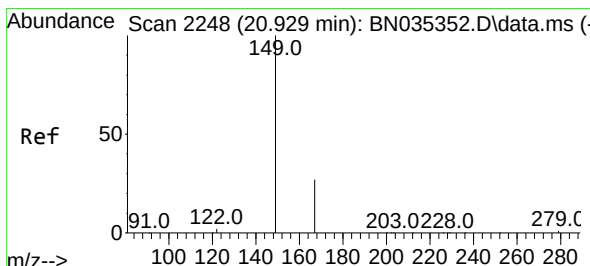
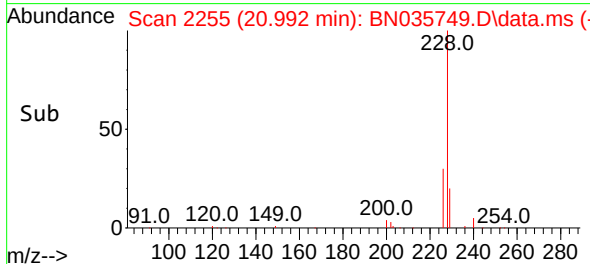
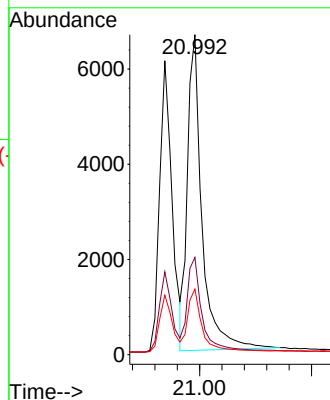
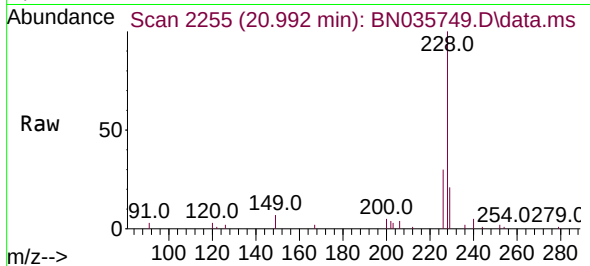




#33
Chrysene
Concen: 0.429 ng
RT: 20.992 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

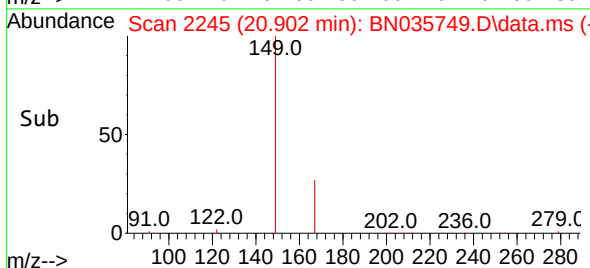
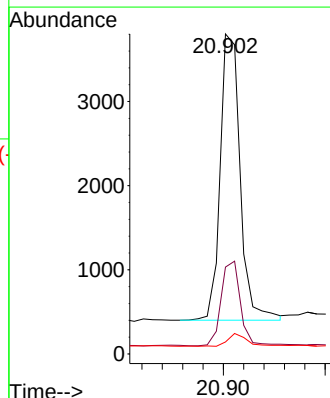
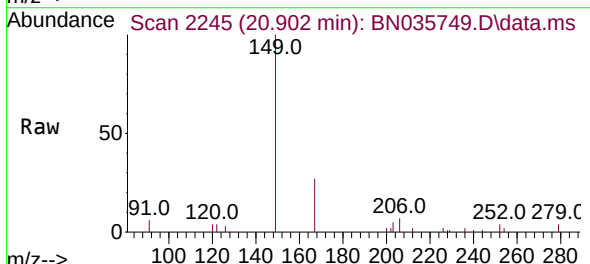
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

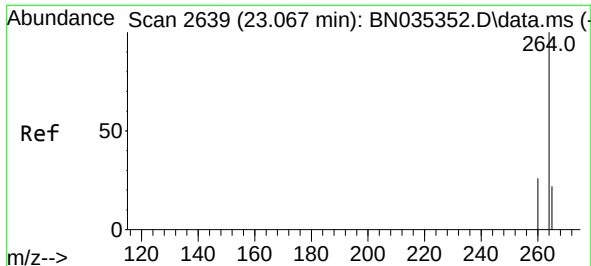
Tgt Ion:228	Resp:	11952
Ion Ratio	Lower	Upper
228	100	
226	30.4	24.6 37.0
229	20.5	15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.434 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:149	Resp:	4632
Ion Ratio	Lower	Upper
149	100	
167	28.9	22.2 33.4
279	4.5	2.7 4.1#

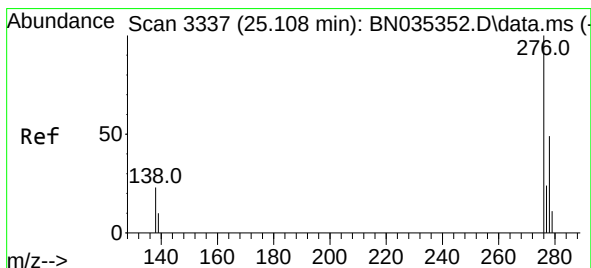
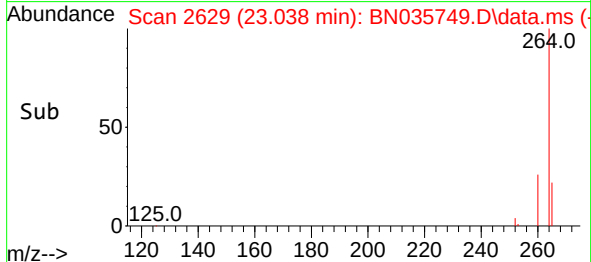
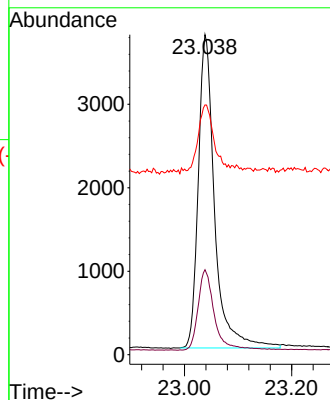
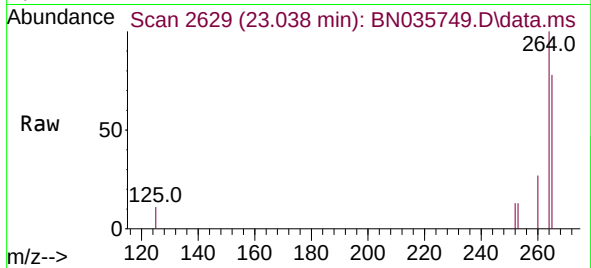




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

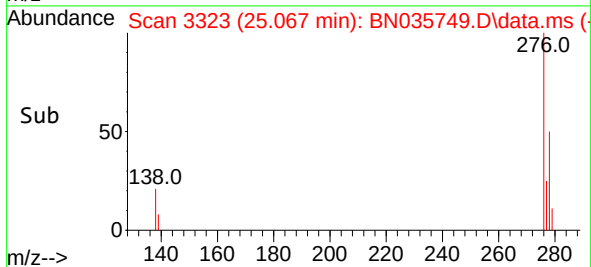
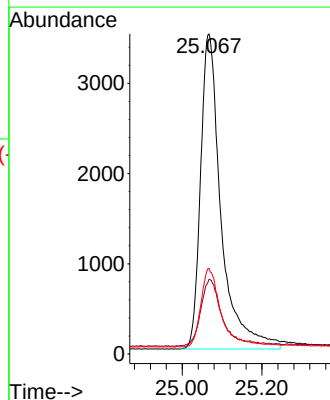
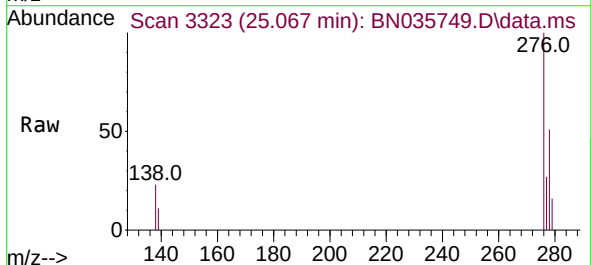
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

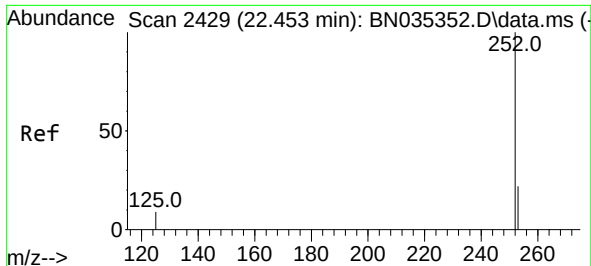
Tgt Ion:264 Resp: 7943
Ion Ratio Lower Upper
264 100
260 26.5 21.4 32.2
265 78.1 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

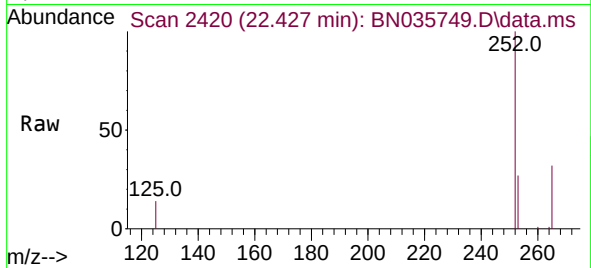
Tgt Ion:276 Resp: 12531
Ion Ratio Lower Upper
276 100
138 21.0 19.4 29.0
277 24.2 19.8 29.6



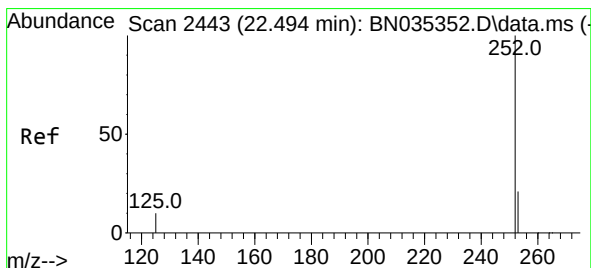
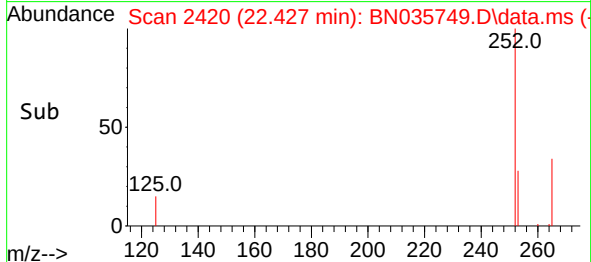
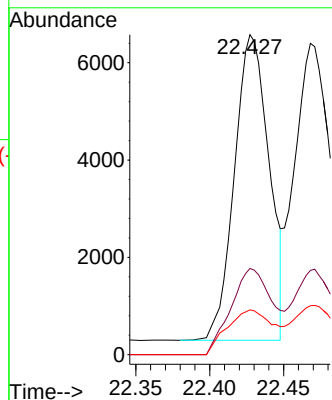


#37
Benzo(b)fluoranthene
Concen: 0.472 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

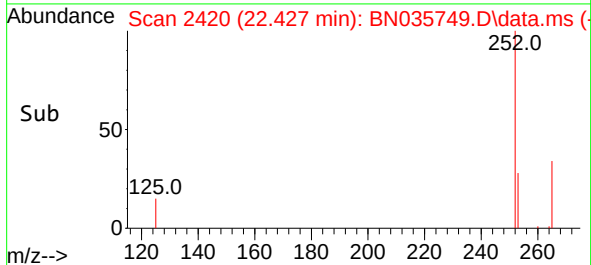
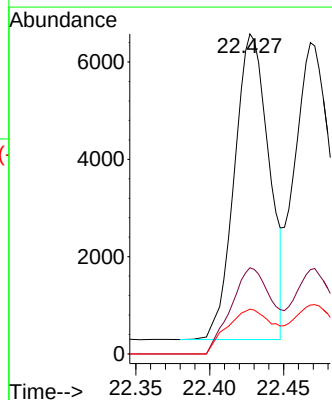
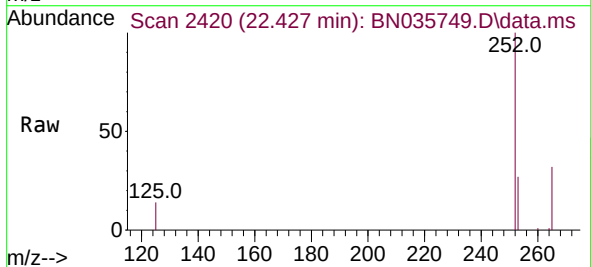


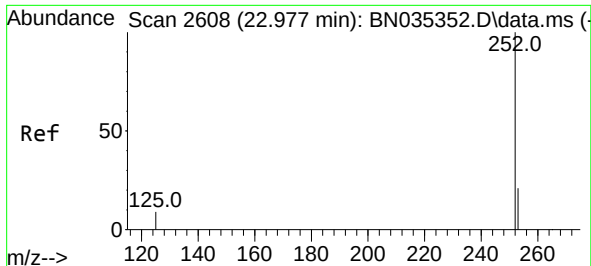
Tgt Ion:252 Resp: 13708
Ion Ratio Lower Upper
252 100
253 26.9 19.6 29.4
125 14.0 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.479 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:252 Resp: 13708
Ion Ratio Lower Upper
252 100
253 26.9 19.5 29.3
125 14.0 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 22.950 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

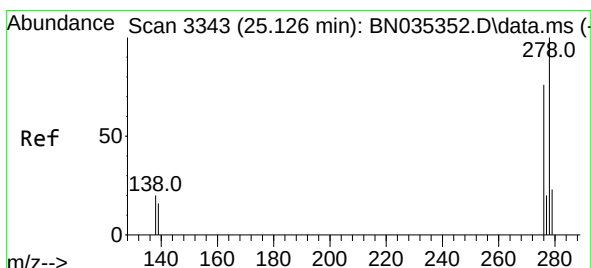
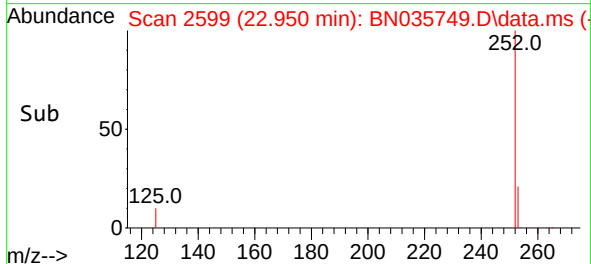
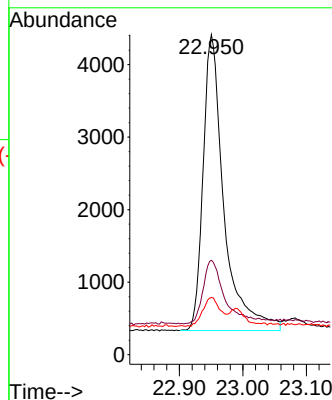
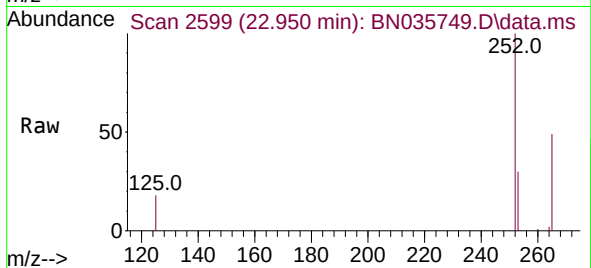
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252	Resp:	9304
Ion	Ratio	Lower Upper
252	100	
253	29.5	20.2 30.4
125	17.9	10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

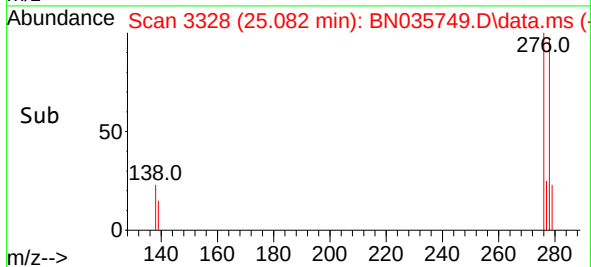
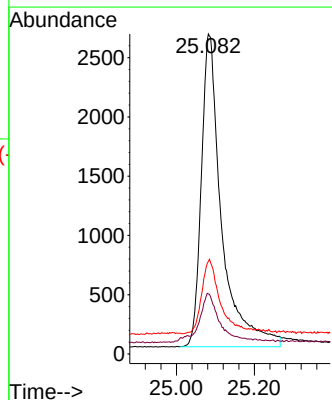
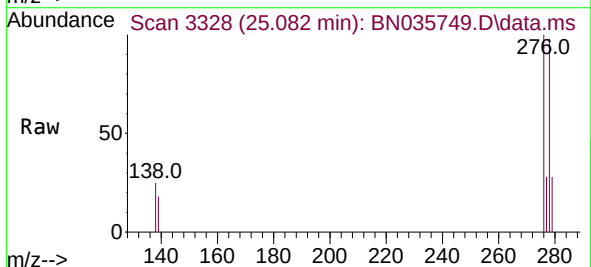
RT: 25.082 min Scan# 3328

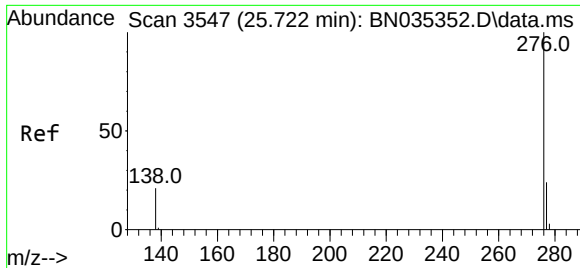
Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

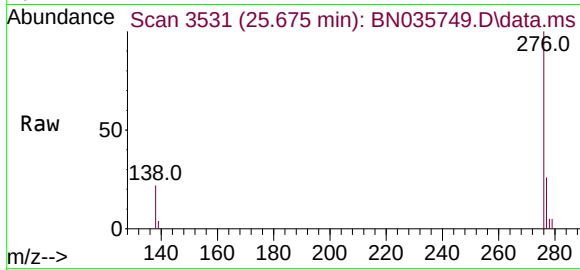
Tgt Ion:278	Resp:	9530
Ion	Ratio	Lower Upper
278	100	
139	18.7	14.2 21.4
279	28.9	20.5 30.7



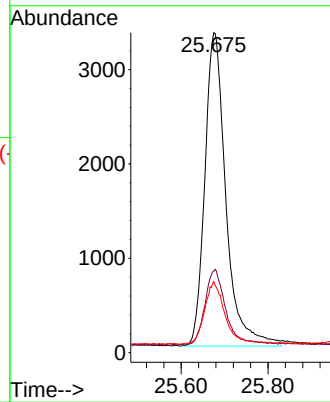
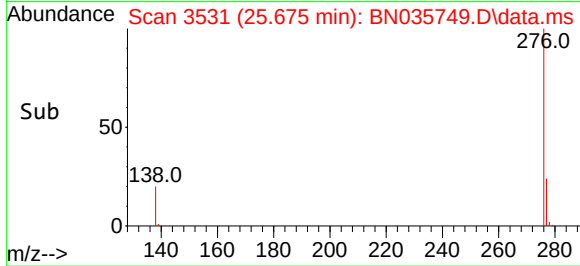


#41
Benzo(g,h,i)perylene
Concen: 0.438 ng
RT: 25.675 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:	276	Resp:	11213
Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.2	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035764.D
 Acq On : 21 Dec 2024 04:34
 Operator : RC/JU
 Sample : PB165724BS
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165724BS

Quant Time: Dec 21 05:09:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

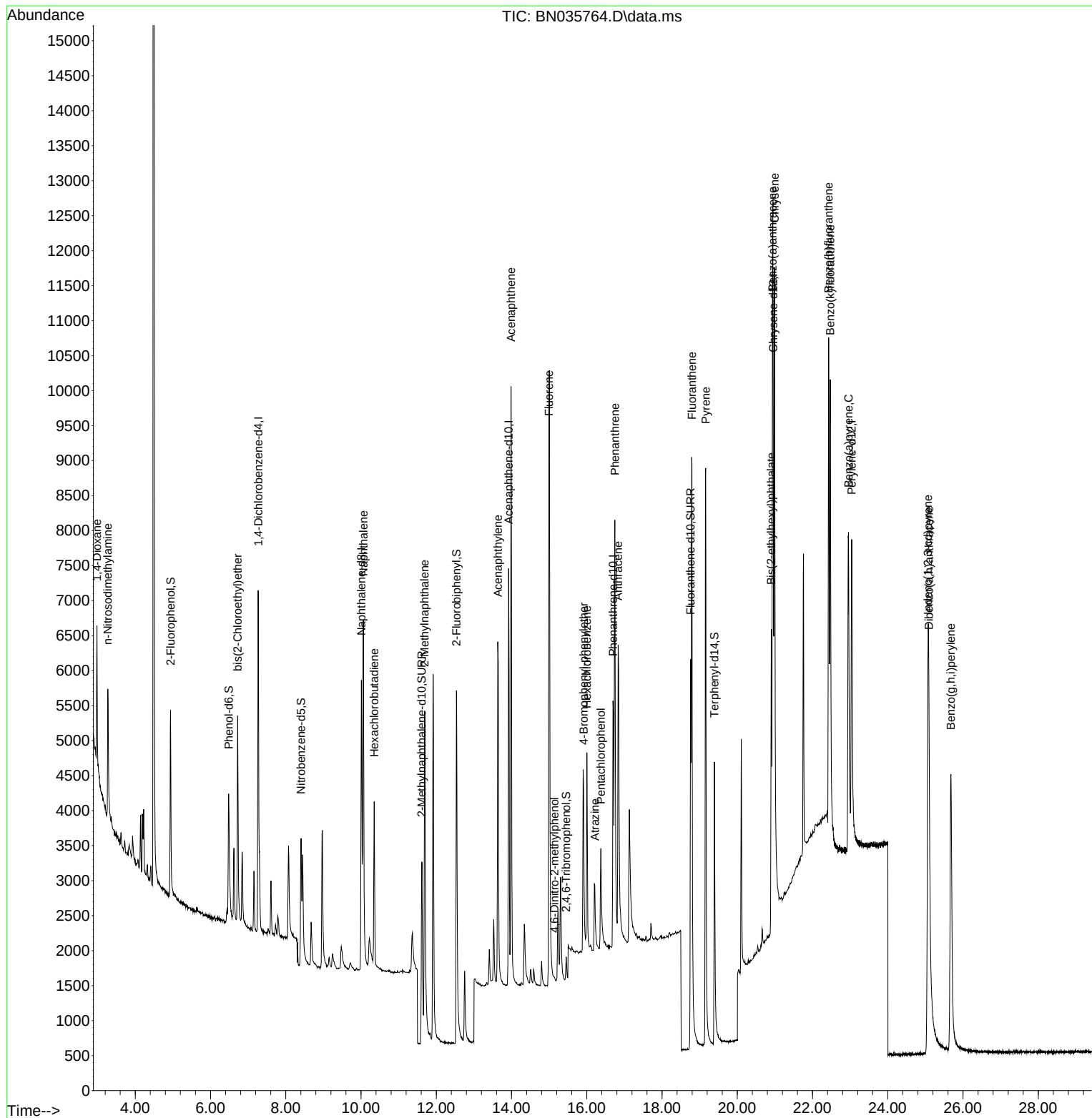
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.271	152	2647	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6538	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	3740	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	6891	0.400	ng	# 0.00
29) Chrysene-d12	20.955	240	6144	0.400	ng	0.00
35) Perylene-d12	23.041	264	6576	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	2510	0.379	ng	0.00
5) Phenol-d6	6.484	99	2665	0.334	ng	0.00
8) Nitrobenzene-d5	8.407	82	2346	0.587	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	5689	0.556	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	453	0.171	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6506	0.460	ng	0.00
27) Fluoranthene-d10	18.761	212	8504	0.435	ng	0.00
31) Terphenyl-d14	19.393	244	6077	0.501	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.981	88	1209	0.478	ng	# 64
3) n-Nitrosodimethylamine	3.270	42	1089	0.517	ng	# 97
6) bis(2-Chloroethyl)ether	6.722	93	2779	0.415	ng	99
9) Naphthalene	10.062	128	7464	0.433	ng	99
10) Hexachlorobutadiene	10.351	225	1928	0.485	ng	# 99
12) 2-Methylnaphthalene	11.691	142	4846	0.393	ng	97
16) Acenaphthylene	13.636	152	6779	0.432	ng	99
17) Acenaphthene	13.988	154	4529	0.434	ng	98
18) Fluorene	14.993	166	5492	0.368	ng	100
20) 4,6-Dinitro-2-methylph...	15.143	198	74	0.109	ng	# 1
21) 4-Bromophenyl-phenylether	15.916	248	1621	0.402	ng	# 92
22) Hexachlorobenzene	16.003	284	2441	0.516	ng	96
23) Atrazine	16.214	200	1272	0.443	ng	94
24) Pentachlorophenol	16.375	266	1192	0.579	ng	# 84
25) Phenanthrene	16.748	178	7957	0.420	ng	99
26) Anthracene	16.835	178	7046	0.412	ng	100
28) Fluoranthene	18.794	202	9671	0.379	ng	99
30) Pyrene	19.161	202	10032	0.442	ng	99
32) Benzo(a)anthracene	20.937	228	8148	0.379	ng	99
33) Chrysene	20.991	228	10584	0.478	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	3462	0.408	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.067	276	11390	0.443	ng	96
37) Benzo(b)fluoranthene	22.430	252	13899	0.578	ng	# 94
38) Benzo(k)fluoranthene	22.471	252	10950	0.462	ng	94
39) Benzo(a)pyrene	22.956	252	8888	0.449	ng	# 88
40) Dibenzo(a,h)anthracene	25.090	278	8351	0.412	ng	95
41) Benzo(g,h,i)perylene	25.678	276	9596	0.453	ng	98

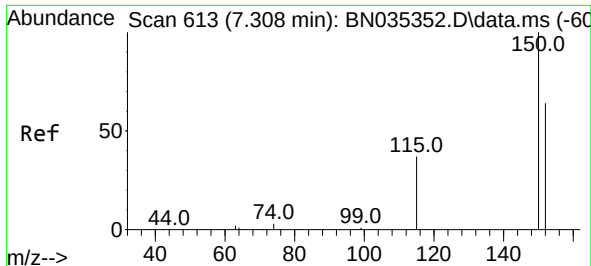
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035764.D
Acq On : 21 Dec 2024 04:34
Operator : RC/JU
Sample : PB165724BS
Misc :
ALS Vial : 55 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BS

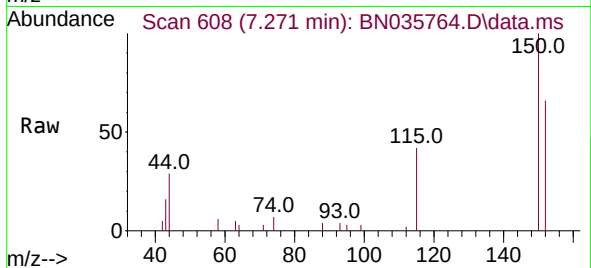
Quant Time: Dec 21 05:09:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



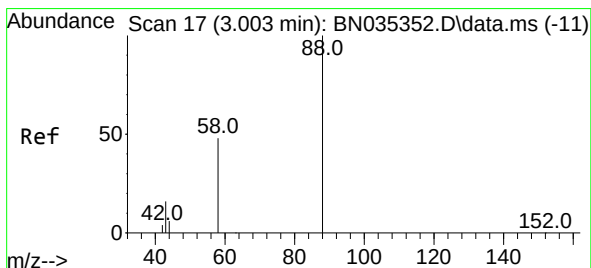
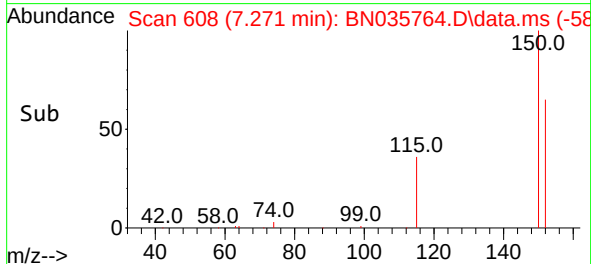
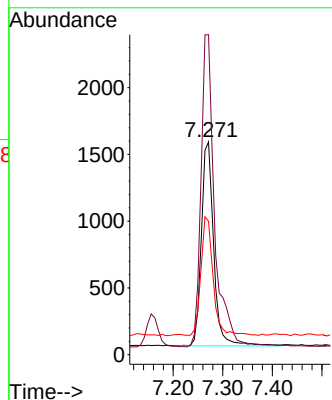


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 60
Delta R.T. -0.001 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

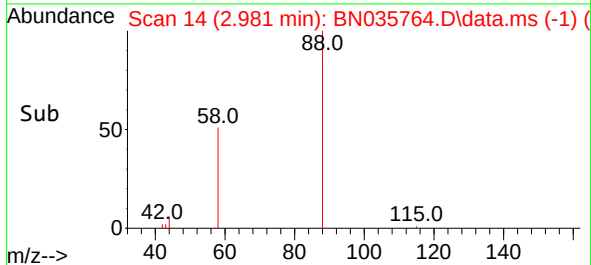
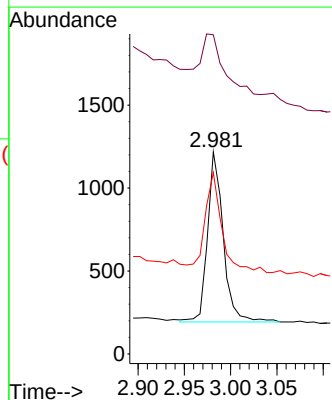
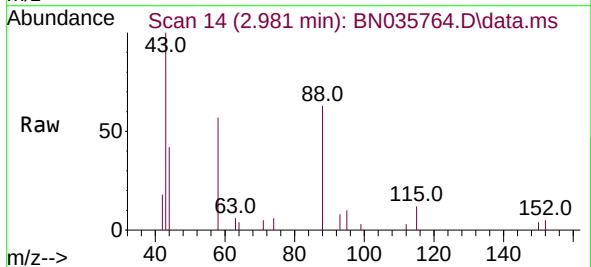


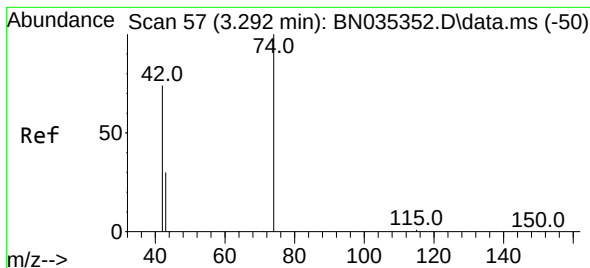
Tgt Ion:152 Resp: 2647
Ion Ratio Lower Upper
152 100
150 150.4 124.0 186.0
115 62.7 49.6 74.4



#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 88 Resp: 1209
Ion Ratio Lower Upper
88 100
43 69.2 17.2 25.8#
58 63.2 44.5 66.7

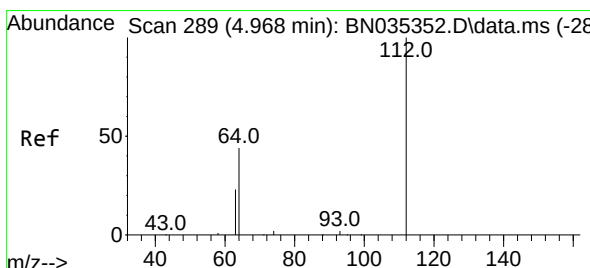
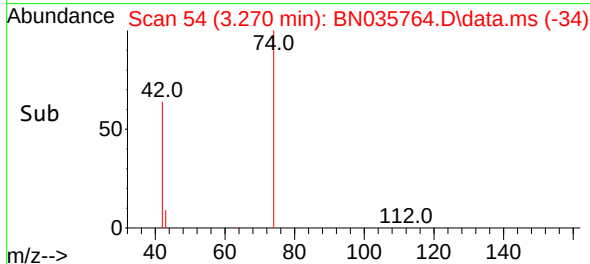
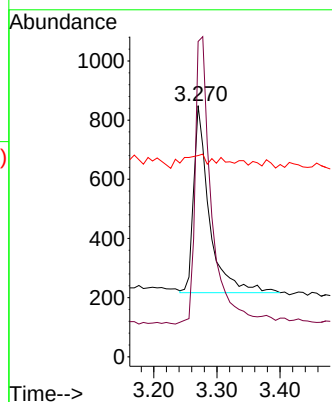
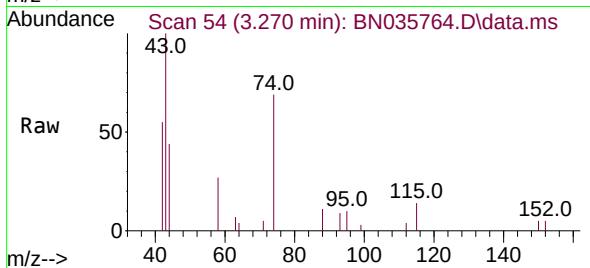




#3
n-Nitrosodimethylamine
Concen: 0.517 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

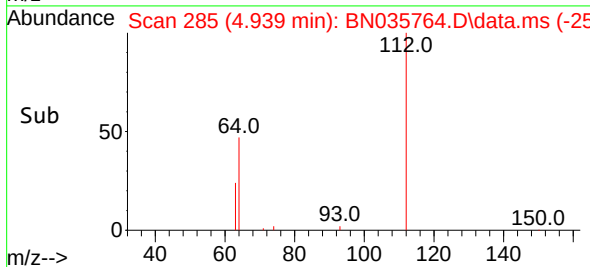
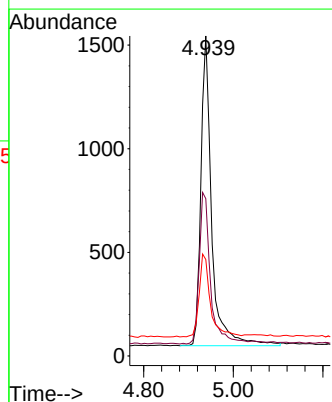
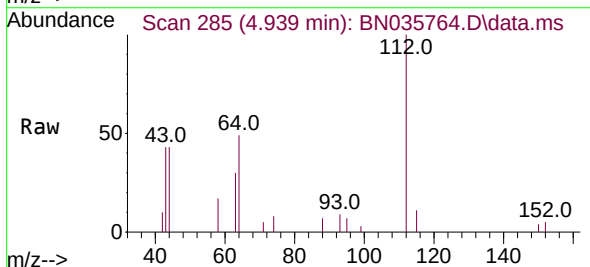
Instrument :
BNA_N
ClientSampleId :
PB165724BS

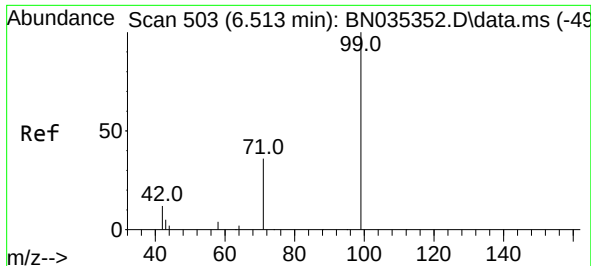
Tgt Ion: 42 Resp: 1089
Ion Ratio Lower Upper
42 100
74 159.0 124.9 187.3
44 12.7 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.379 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 112 Resp: 2510
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 27.8 21.0 31.6

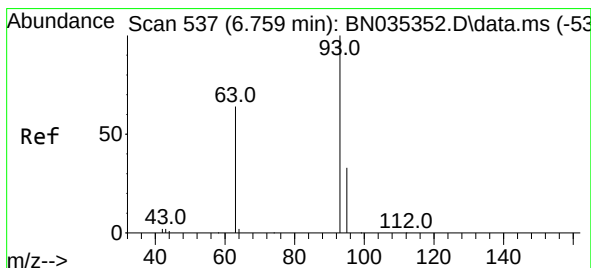
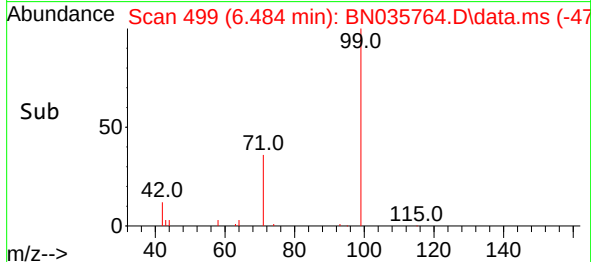
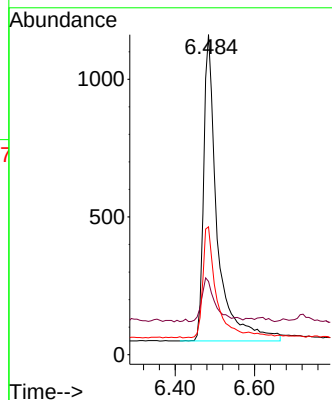
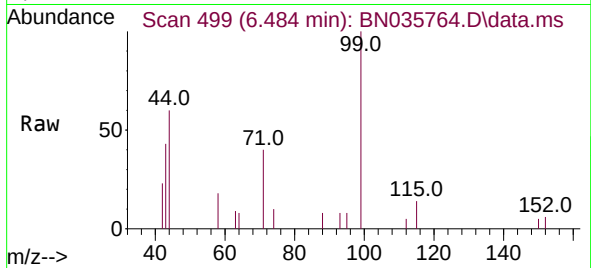




#5
Phenol-d6
Concen: 0.334 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

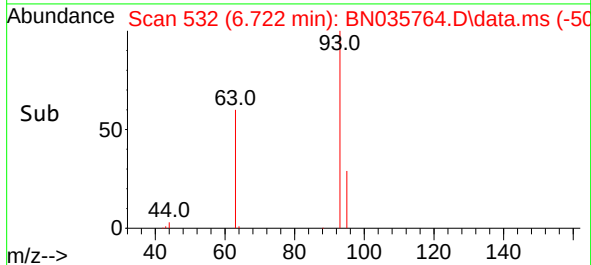
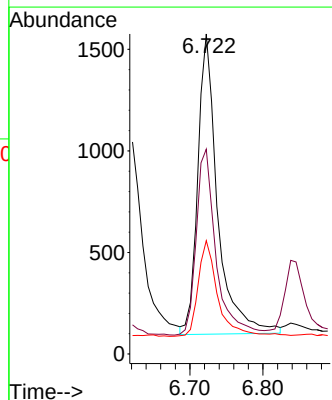
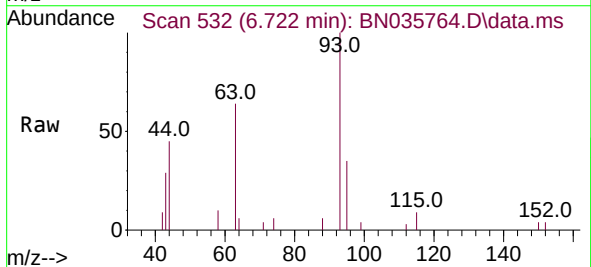
Instrument :
BNA_N
ClientSampleId :
PB165724BS

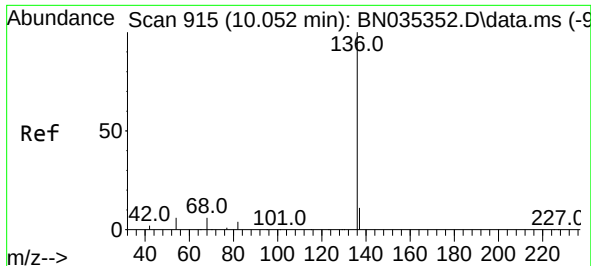
Tgt Ion:	99	Resp:	2665
Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.4	17.2
71	36.9	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.722 min Scan# 532
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:	93	Resp:	2779
Ion	Ratio	Lower	Upper
93	100		
63	61.9	50.4	75.6
95	32.0	25.7	38.5

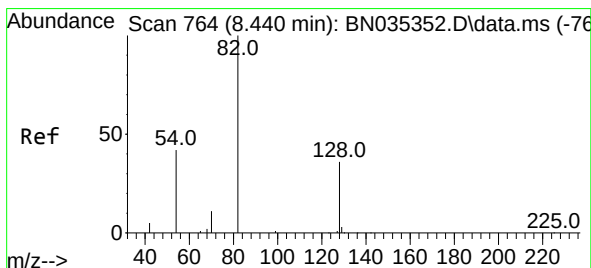
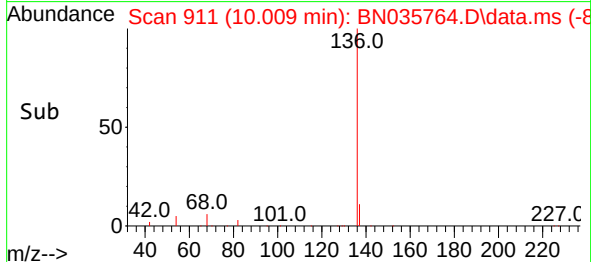
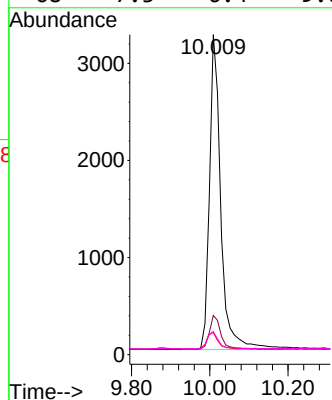
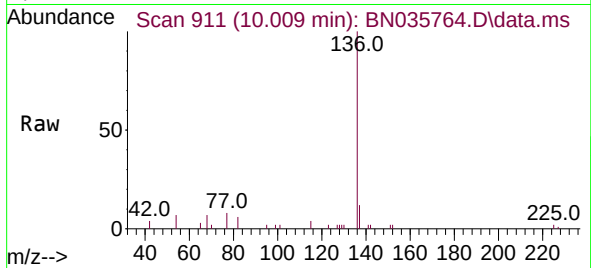




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

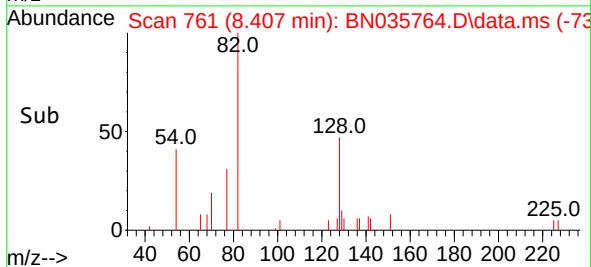
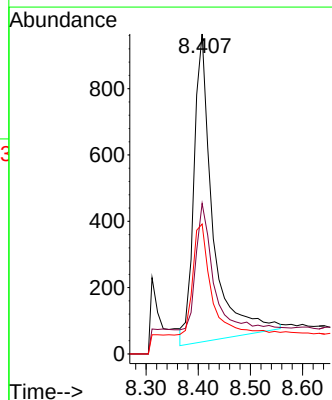
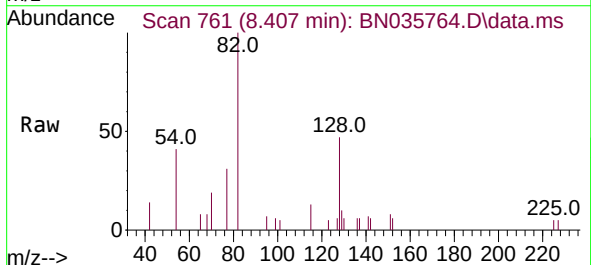
Instrument :
BNA_N
ClientSampleId :
PB165724BS

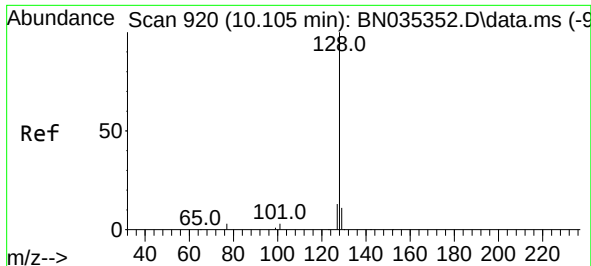
Tgt Ion:	136	Resp:	6538
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	7.3	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.587 ng
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:	82	Resp:	2346
Ion	Ratio	Lower	Upper
82	100		
128	47.0	33.4	50.0
54	40.6	36.7	55.1

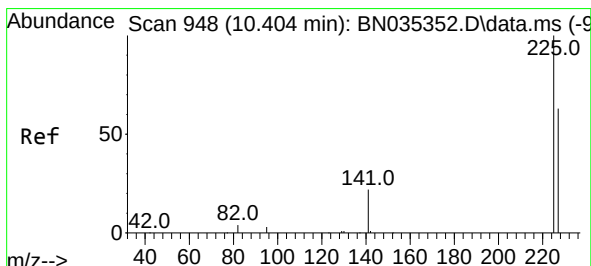
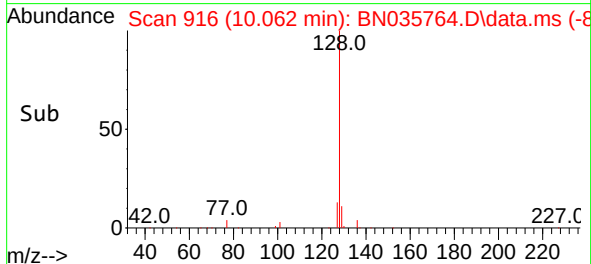
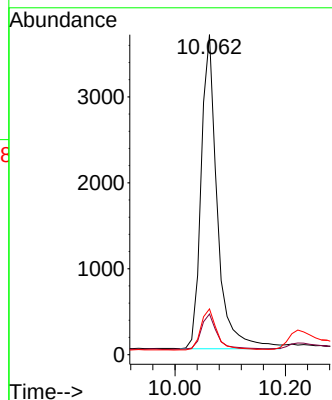
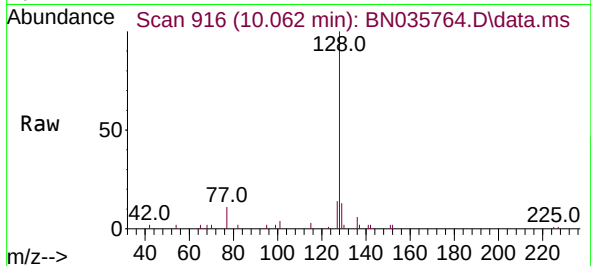




#9
Naphthalene
Concen: 0.433 ng
RT: 10.062 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

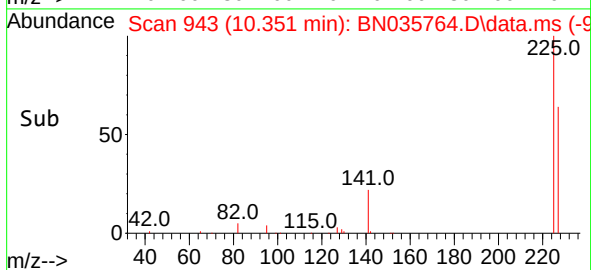
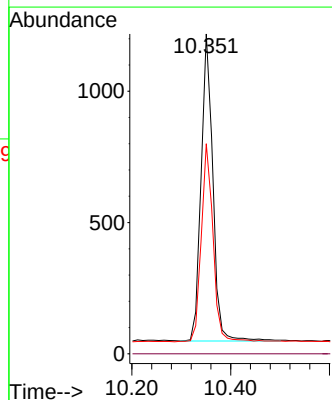
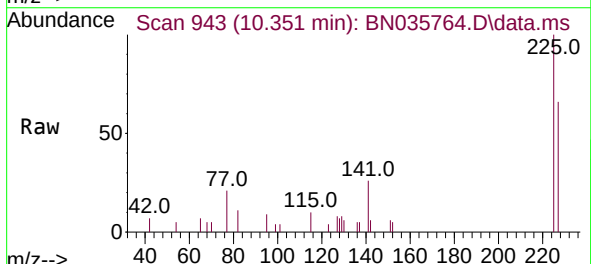
Instrument :
BNA_N
ClientSampleId :
PB165724BS

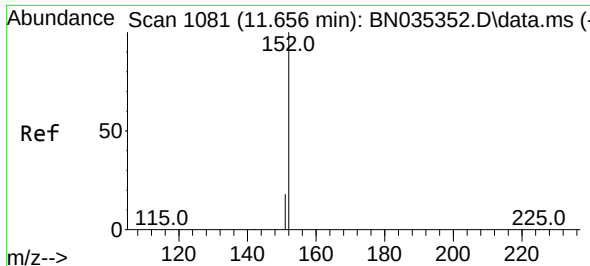
Tgt Ion:128 Resp: 7464
Ion Ratio Lower Upper
128 100
129 12.7 9.8 14.6
127 14.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.485 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:225 Resp: 1928
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.0 51.3 76.9

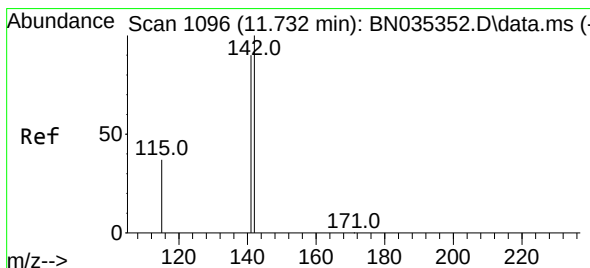
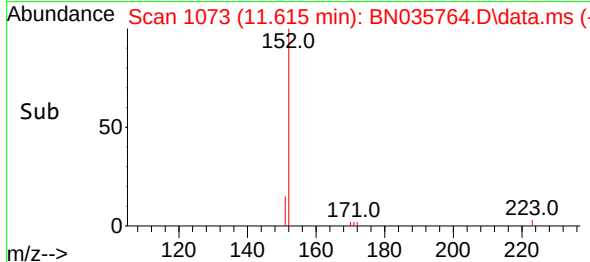
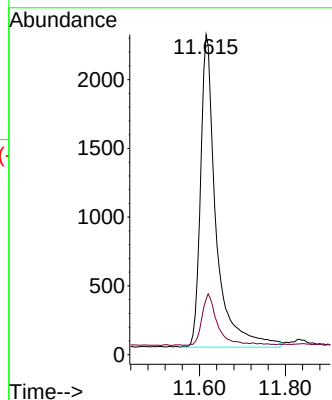
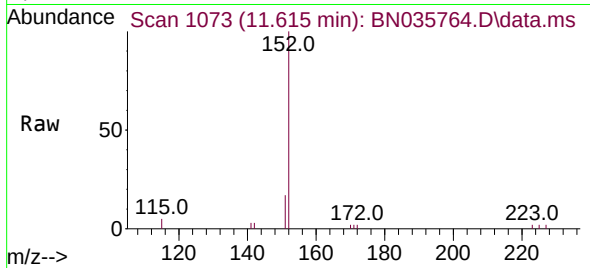




#11
2-Methylnaphthalene-d10
Concen: 0.556 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

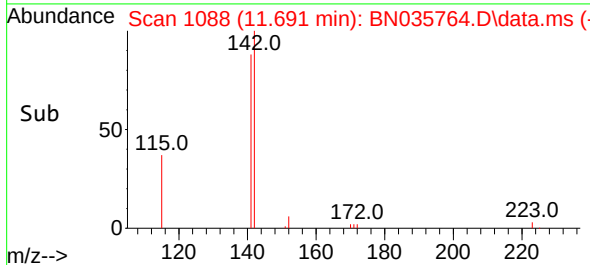
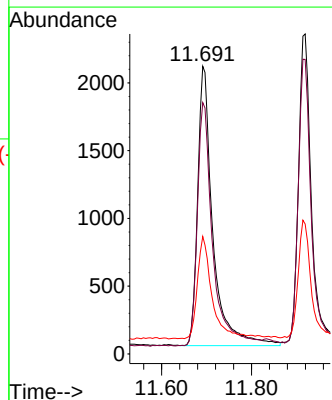
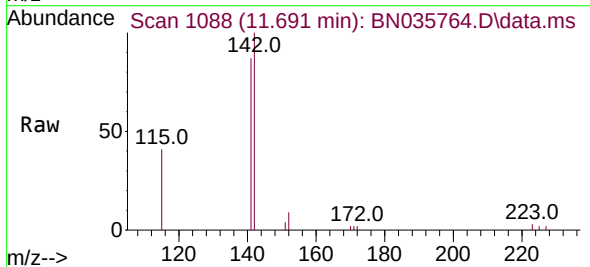
Instrument :
BNA_N
ClientSampleId :
PB165724BS

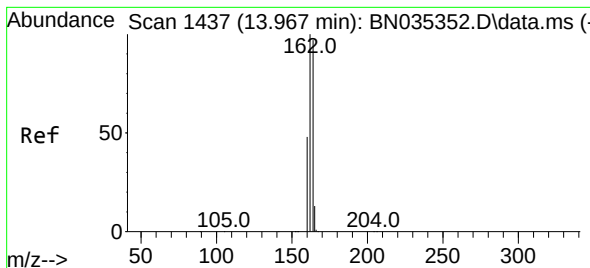
Tgt Ion:152 Resp: 5689
Ion Ratio Lower Upper
152 100
151 15.9 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 11.691 min Scan# 1088
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:142 Resp: 4846
Ion Ratio Lower Upper
142 100
141 87.4 72.2 108.4
115 40.9 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS

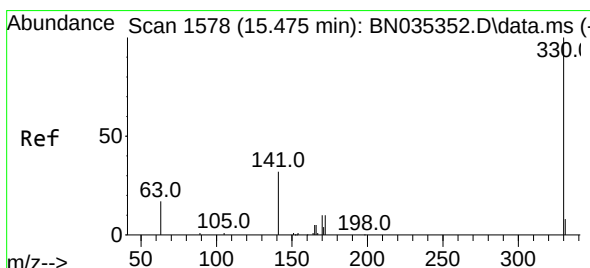
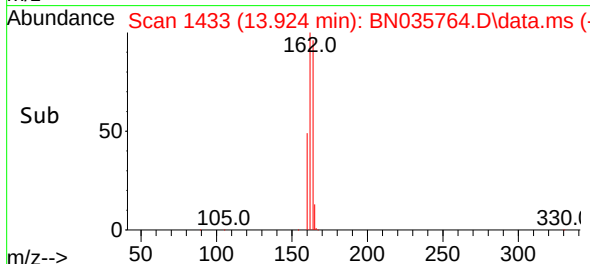
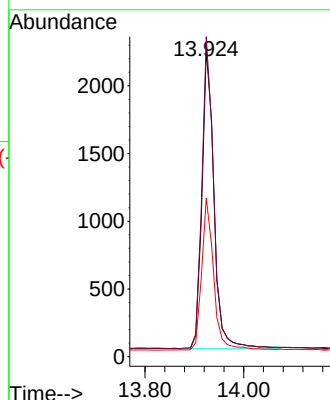
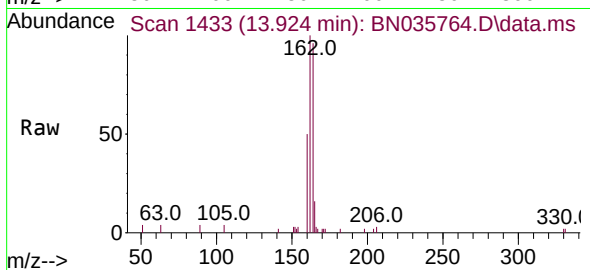
Tgt Ion:164 Resp: 3740

Ion Ratio Lower Upper

164 100

162 104.5 82.2 123.2

160 51.8 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.171 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

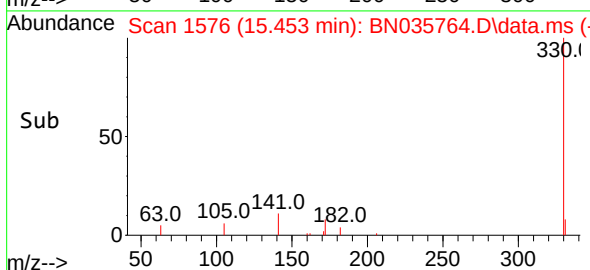
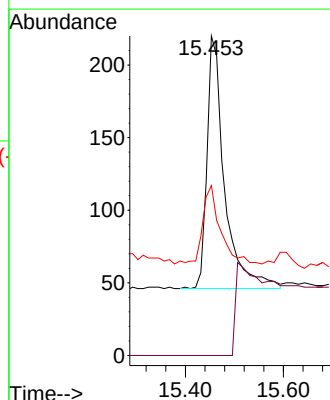
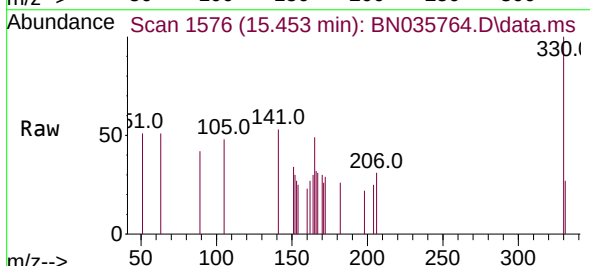
Tgt Ion:330 Resp: 453

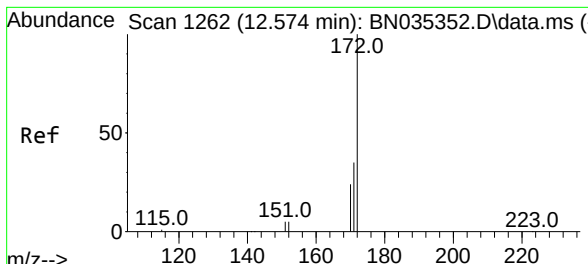
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 30.2 26.6 40.0

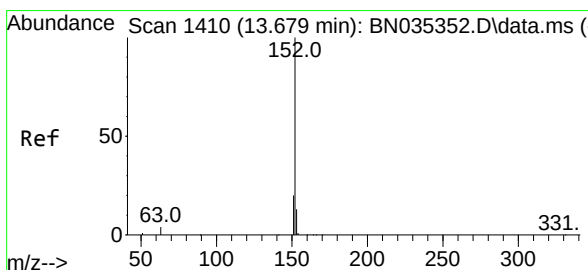
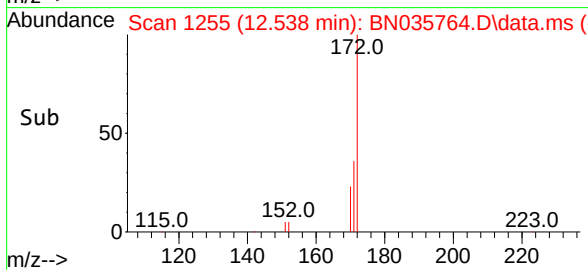
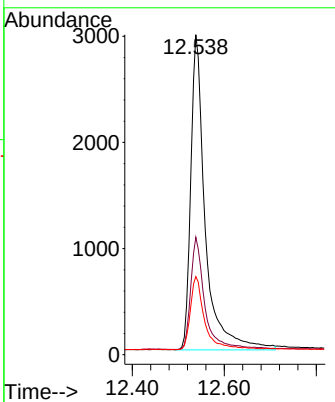
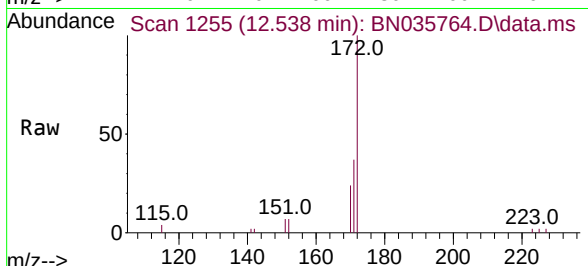




#15
 2-Fluorobiphenyl
 Concen: 0.460 ng
 RT: 12.538 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BN035764.D
 Acq: 21 Dec 2024 04:34

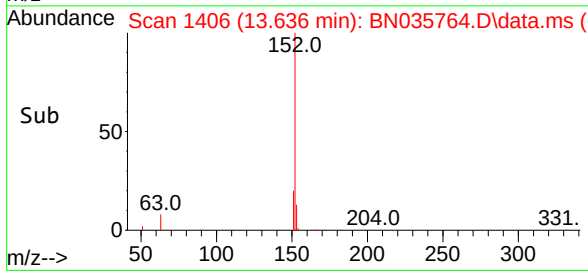
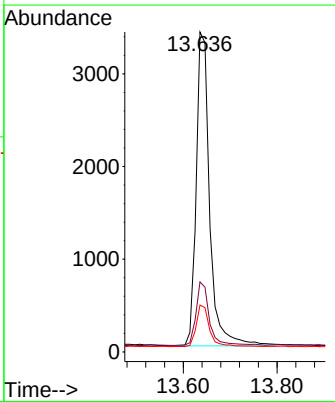
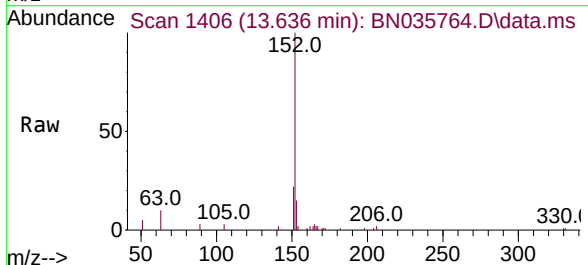
Instrument :
 BNA_N
 ClientSampleId :
 PB165724BS

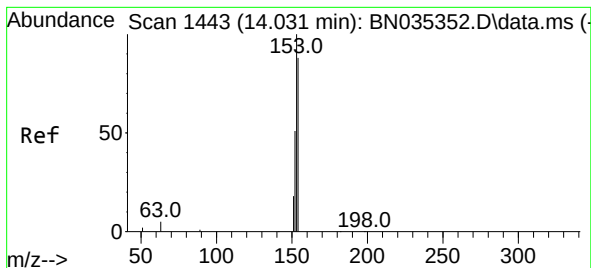
Tgt Ion:172	Resp:	6506
Ion Ratio	Lower	Upper
172	100	
171	36.7	29.0 43.4
170	24.4	19.8 29.8



#16
 Acenaphthylene
 Concen: 0.432 ng
 RT: 13.636 min Scan# 1406
 Delta R.T. -0.011 min
 Lab File: BN035764.D
 Acq: 21 Dec 2024 04:34

Tgt Ion:152	Resp:	6779
Ion Ratio	Lower	Upper
152	100	
151	19.9	16.2 24.2
153	13.2	10.4 15.6





#17

Acenaphthene

Concen: 0.434 ng

RT: 13.988 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS

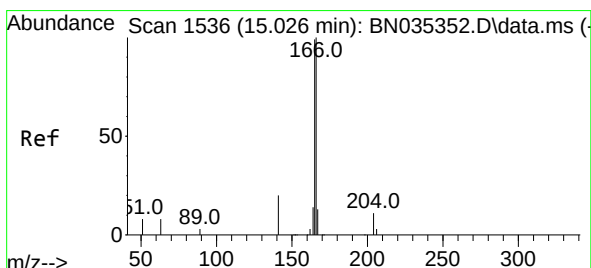
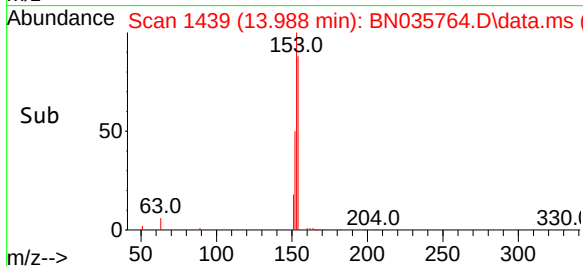
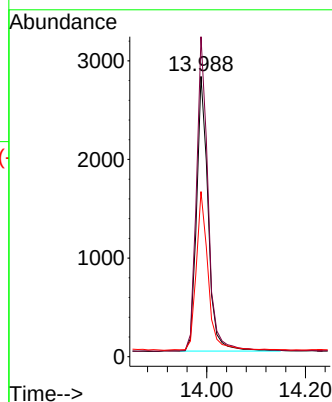
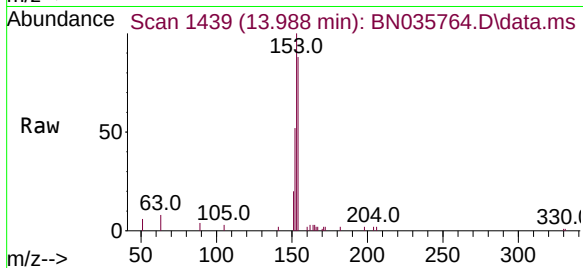
Tgt Ion:154 Resp: 4529

Ion Ratio Lower Upper

154 100

153 115.1 92.6 139.0

152 58.8 49.0 73.6



#18

Fluorene

Concen: 0.368 ng

RT: 14.993 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

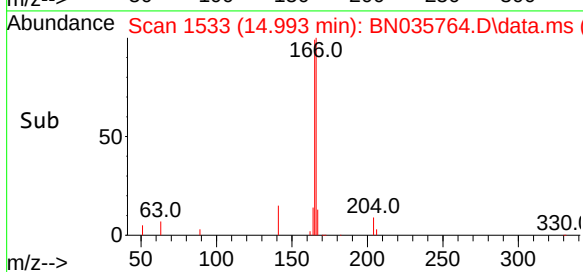
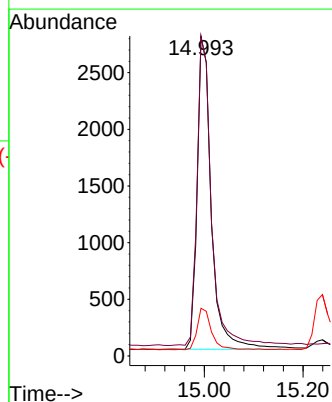
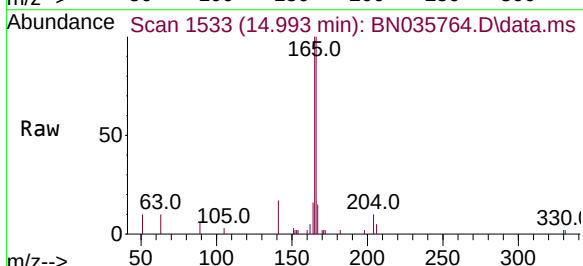
Tgt Ion:166 Resp: 5492

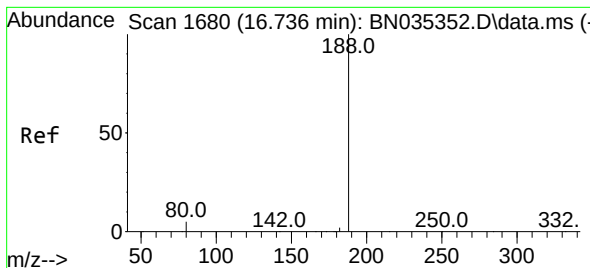
Ion Ratio Lower Upper

166 100

165 99.6 79.7 119.5

167 13.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS

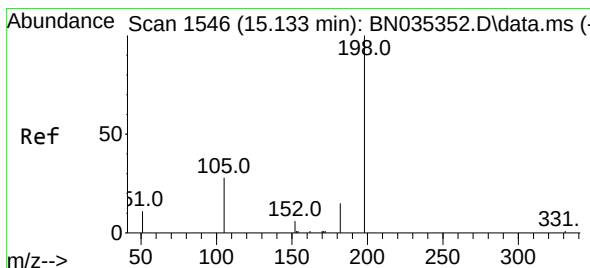
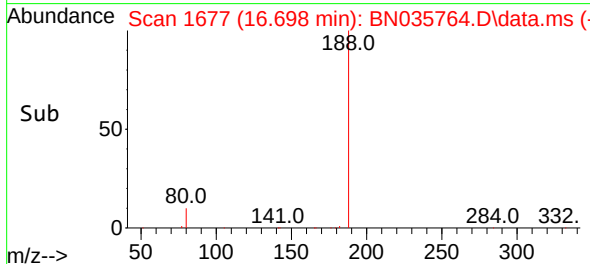
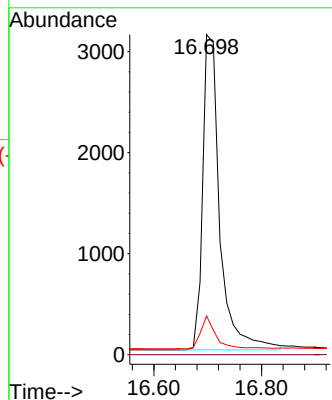
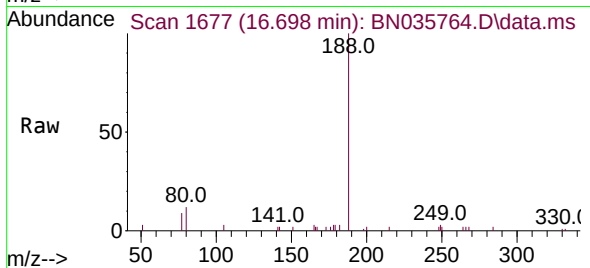
Tgt Ion:188 Resp: 6891

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: 0.109 ng

RT: 15.143 min Scan# 1547

Delta R.T. 0.021 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

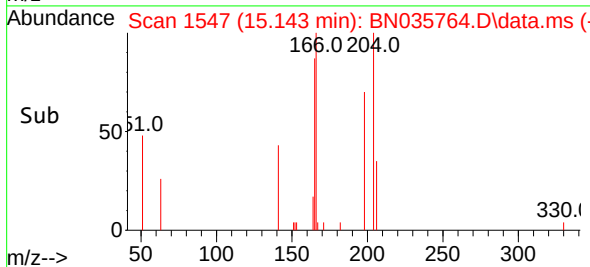
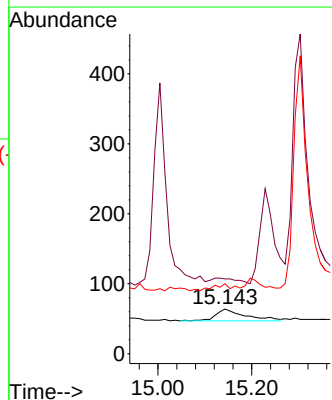
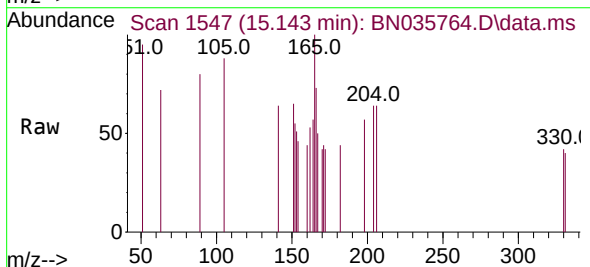
Tgt Ion:198 Resp: 74

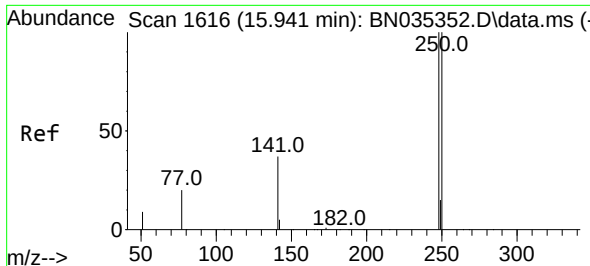
Ion Ratio Lower Upper

198 100

51 167.2 46.5 69.7#

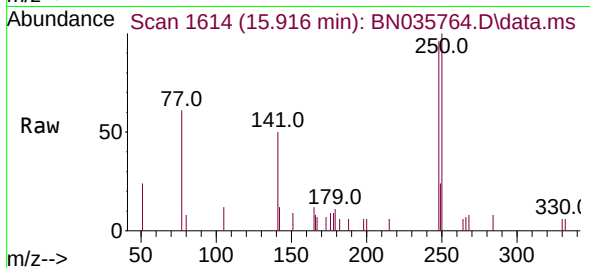
105 156.3 45.3 67.9#



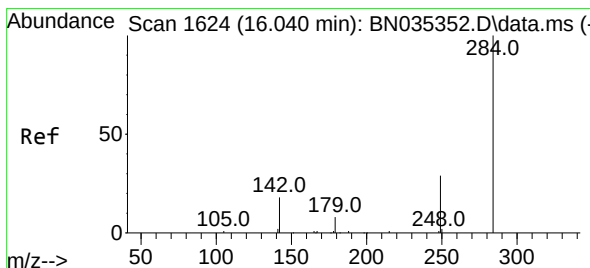
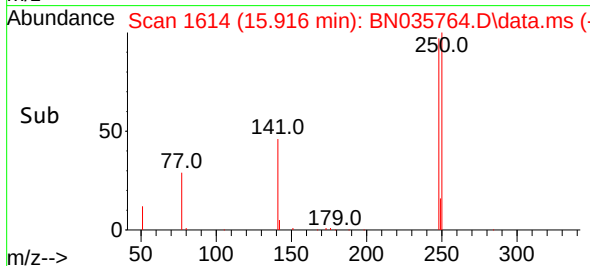
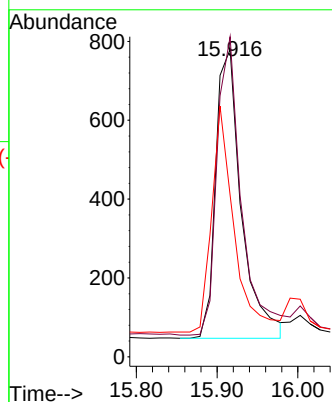


#21
4-Bromophenyl-phenylether
Concen: 0.402 ng
RT: 15.916 min Scan# 1621
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

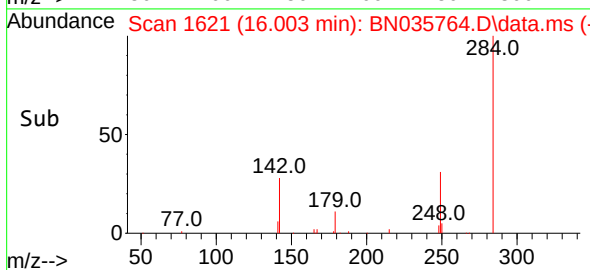
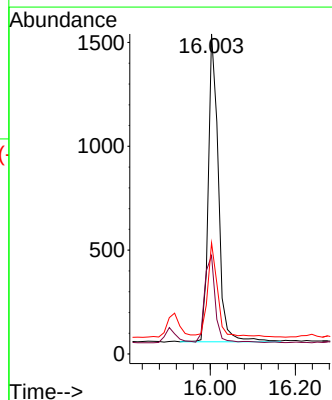
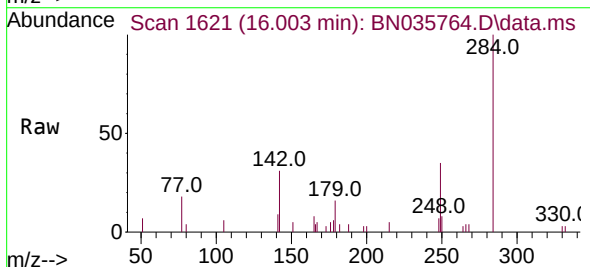


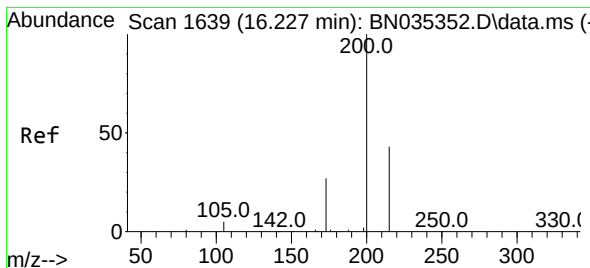
Tgt Ion:248 Resp: 1621
Ion Ratio Lower Upper
248 100
250 104.1 80.6 120.8
141 52.6 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.516 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:284 Resp: 2441
Ion Ratio Lower Upper
284 100
142 29.6 26.7 40.1
249 30.3 24.6 36.8





#23

Atrazine

Concen: 0.443 ng

RT: 16.214 min Scan# 1638

Delta R.T. 0.012 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS

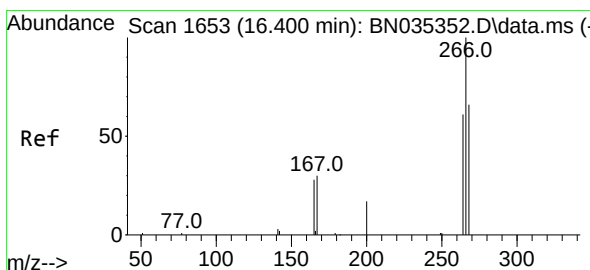
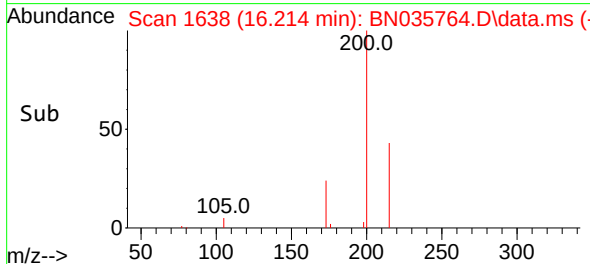
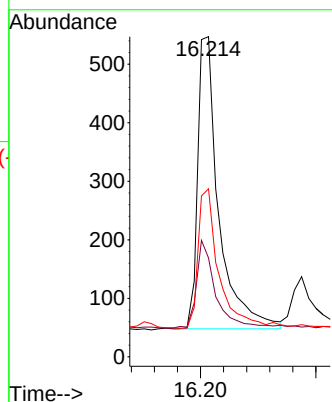
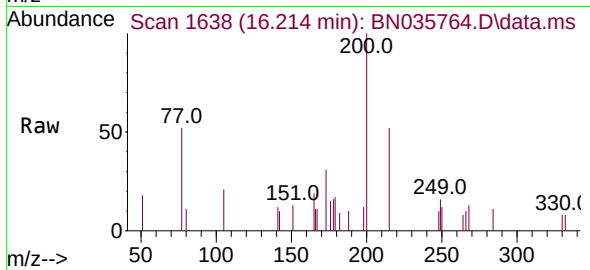
Tgt Ion:200 Resp: 1272

Ion Ratio Lower Upper

200 100

173 30.9 24.1 36.1

215 52.5 36.9 55.3



#24

Pentachlorophenol

Concen: 0.579 ng

RT: 16.375 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

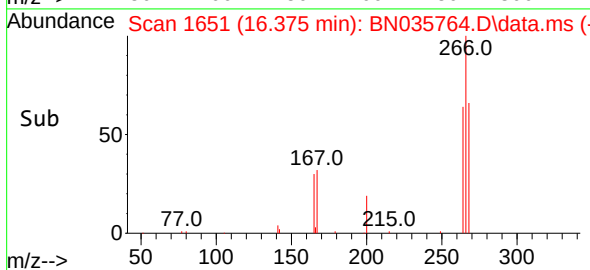
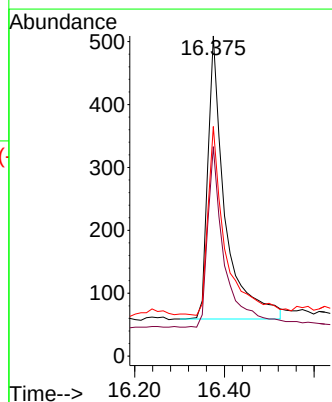
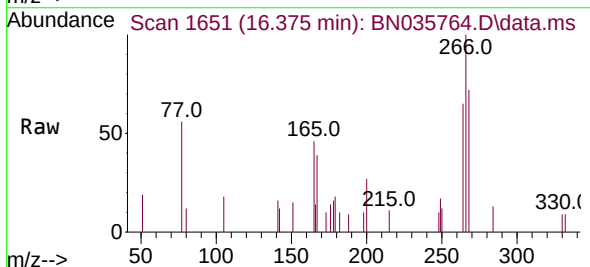
Tgt Ion:266 Resp: 1192

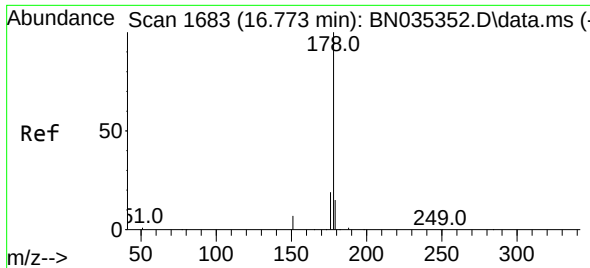
Ion Ratio Lower Upper

266 100

264 63.2 42.3 63.5

268 66.2 43.3 64.9#

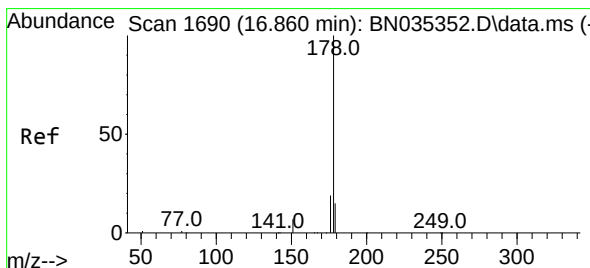
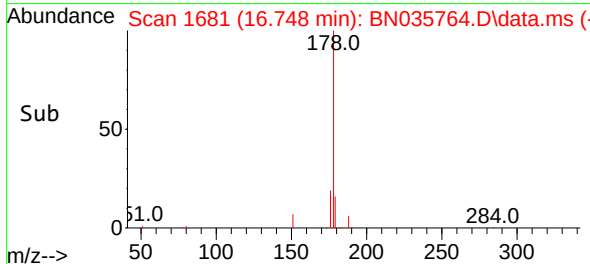
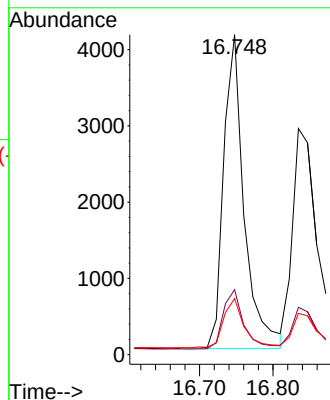
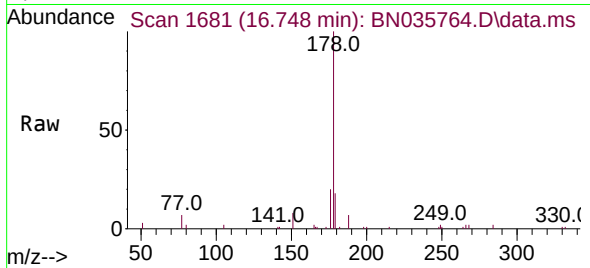




#25
Phenanthrene
Concen: 0.420 ng
RT: 16.748 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

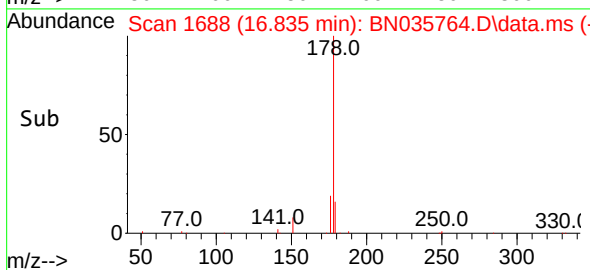
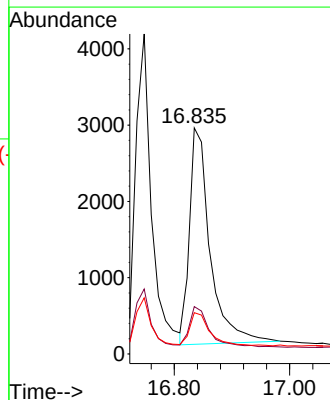
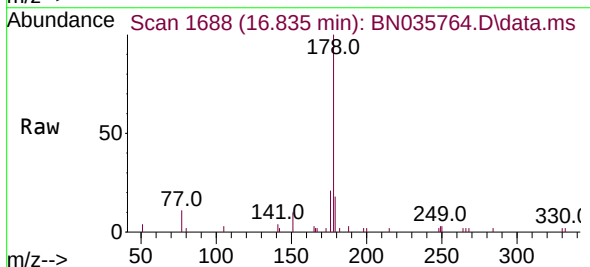
Instrument :
BNA_N
ClientSampleId :
PB165724BS

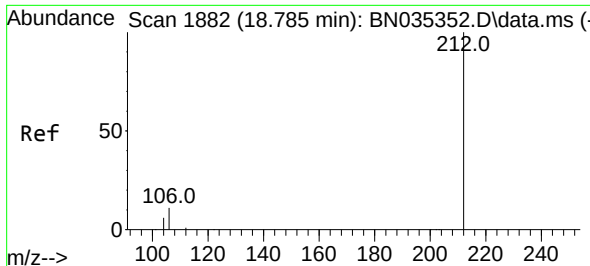
Tgt Ion:178 Resp: 7957
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 16.3 12.3 18.5



#26
Anthracene
Concen: 0.412 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:178 Resp: 7046
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.7 12.6 18.8

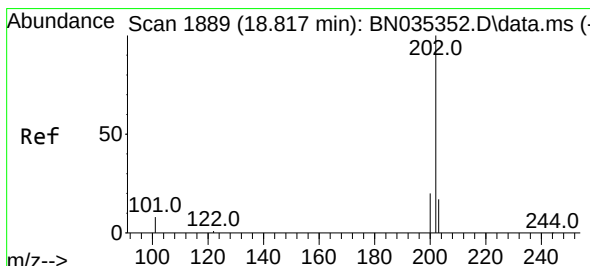
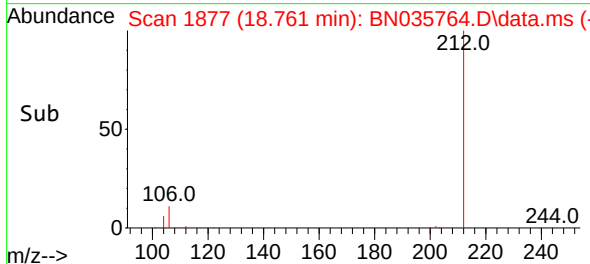
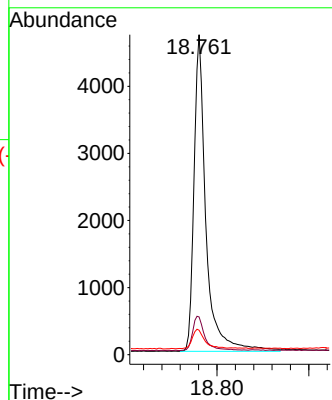
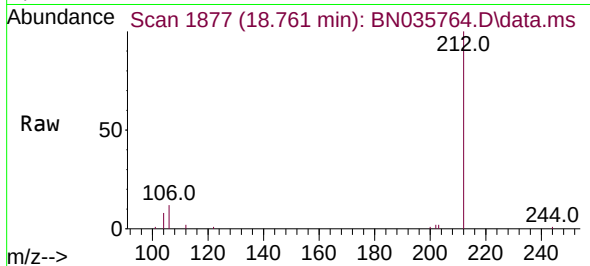




#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.761 min Scan# 1884
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

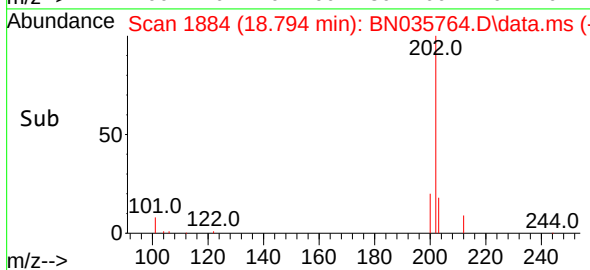
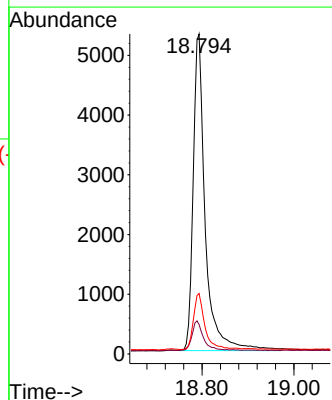
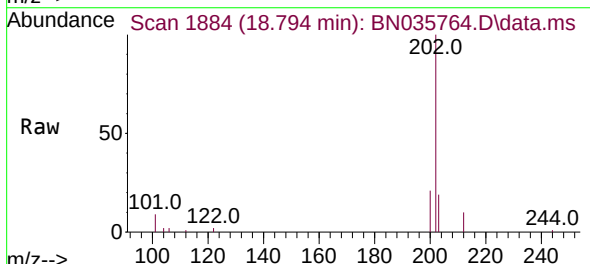
Instrument :
BNA_N
ClientSampleId :
PB165724BS

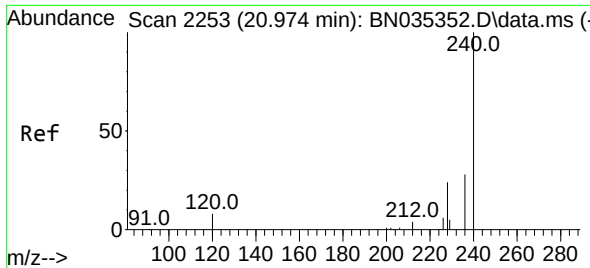
Tgt Ion:212 Resp: 8504
Ion Ratio Lower Upper
212 100
106 11.1 9.2 13.8
104 6.4 5.3 7.9



#28
Fluoranthene
Concen: 0.379 ng
RT: 18.794 min Scan# 1884
Delta R.T. 0.004 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:202 Resp: 9671
Ion Ratio Lower Upper
202 100
101 8.7 7.4 11.0
203 16.8 13.7 20.5

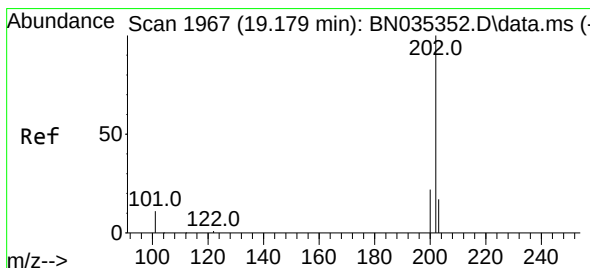
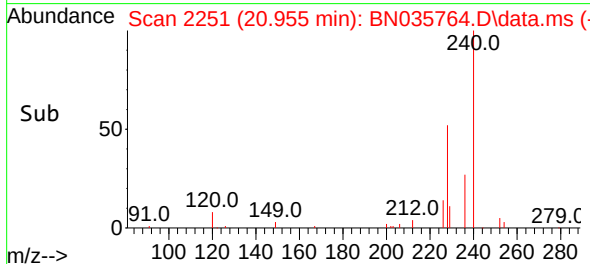
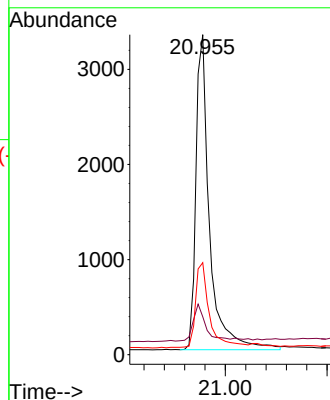
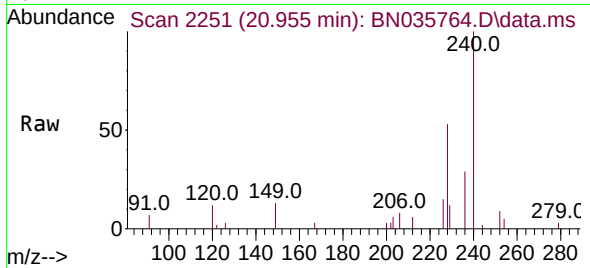




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.955 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

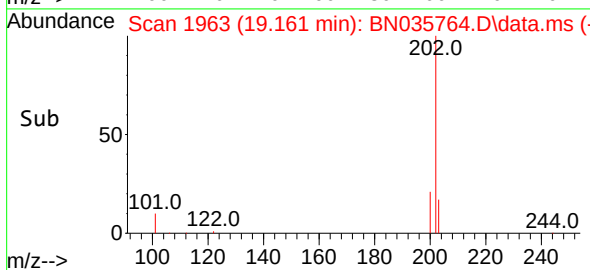
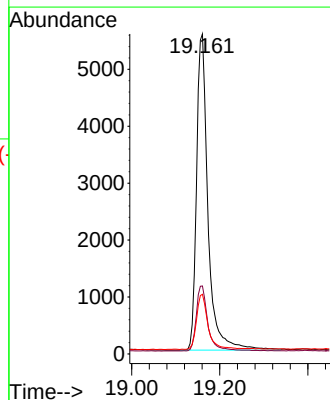
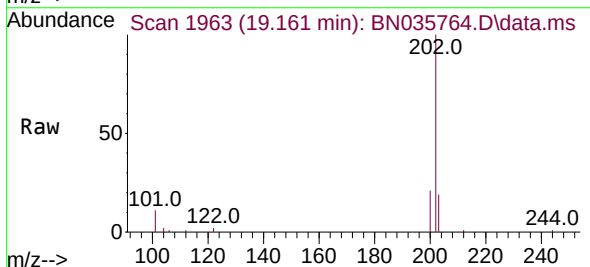
Instrument :
BNA_N
ClientSampleId :
PB165724BS

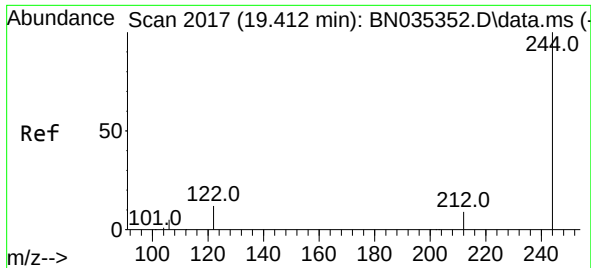
Tgt Ion:240 Resp: 6144
Ion Ratio Lower Upper
240 100
120 11.9 7.9 11.9
236 28.7 22.9 34.3



#30
Pyrene
Concen: 0.442 ng
RT: 19.161 min Scan# 1963
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:202 Resp: 10032
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.5 14.3 21.5

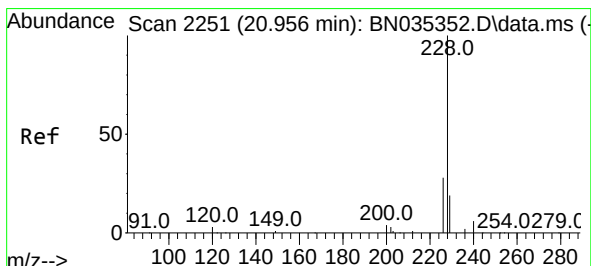
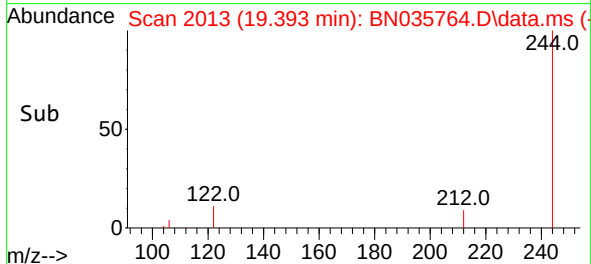
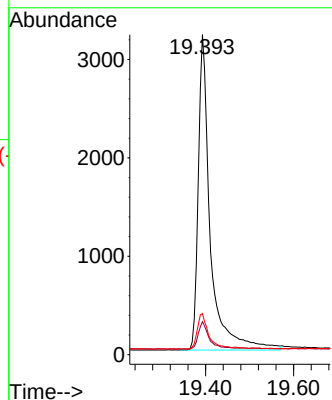
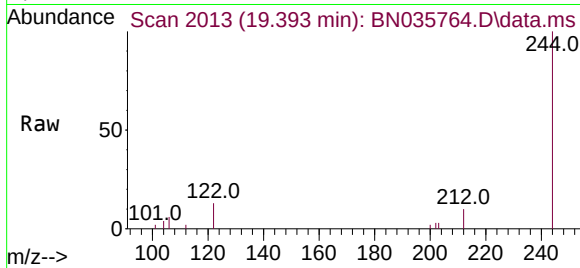




#31
 Terphenyl-d14
 Concen: 0.501 ng
 RT: 19.393 min Scan# 20
 Delta R.T. 0.004 min
 Lab File: BN035764.D
 Acq: 21 Dec 2024 04:34

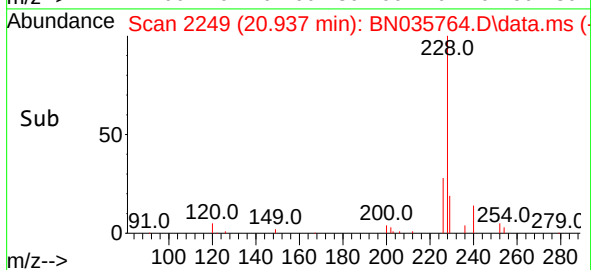
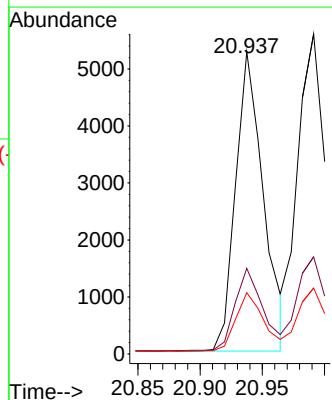
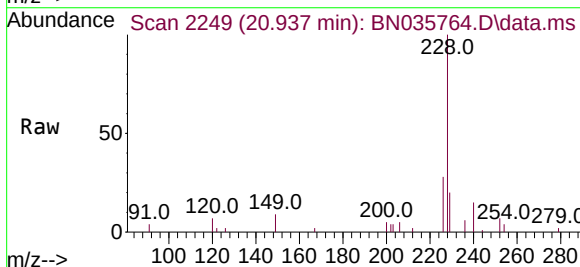
Instrument :
 BNA_N
 ClientSampleId :
 PB165724BS

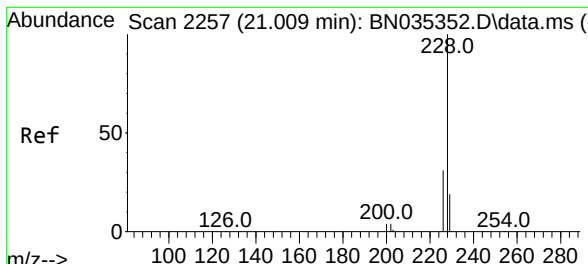
Tgt Ion:244 Resp: 6077
 Ion Ratio Lower Upper
 244 100
 212 10.3 8.1 12.1
 122 12.9 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.379 ng
 RT: 20.937 min Scan# 2249
 Delta R.T. -0.000 min
 Lab File: BN035764.D
 Acq: 21 Dec 2024 04:34

Tgt Ion:228 Resp: 8148
 Ion Ratio Lower Upper
 228 100
 226 28.3 22.5 33.7
 229 20.3 15.8 23.8

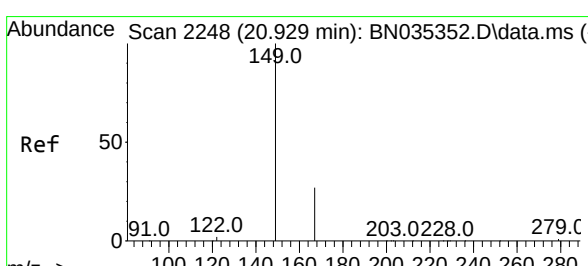
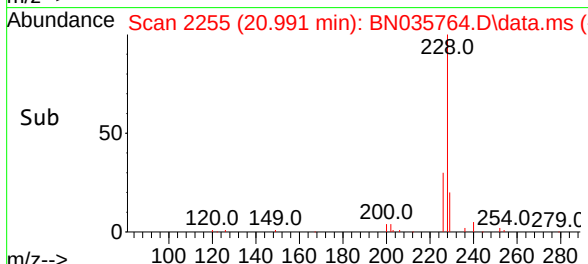
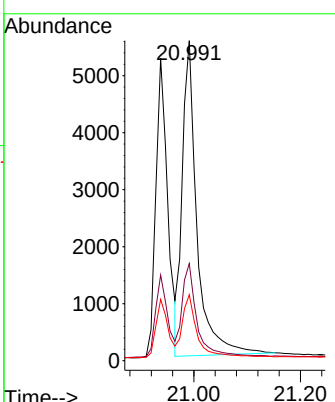
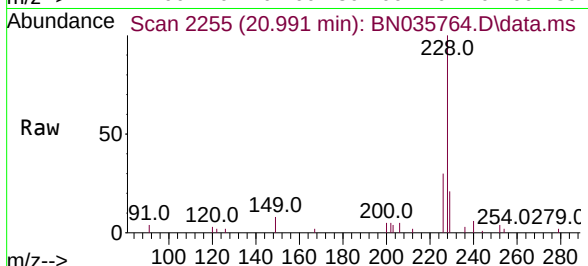




#33
 Chrysene
 Concen: 0.478 ng
 RT: 20.991 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN035764.D
 Acq: 21 Dec 2024 04:34

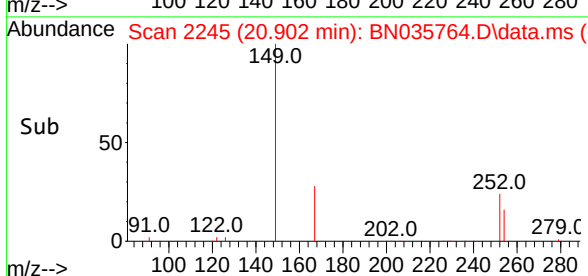
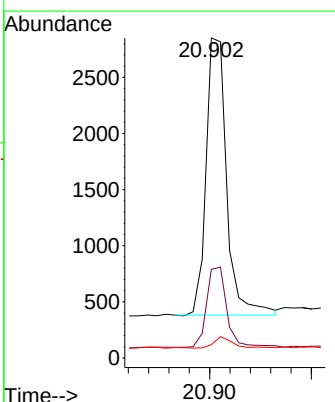
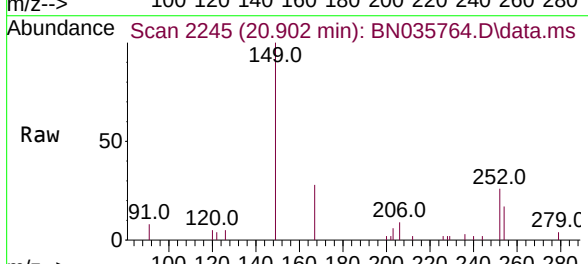
Instrument : BNA_N
 ClientSampleId : PB165724BS

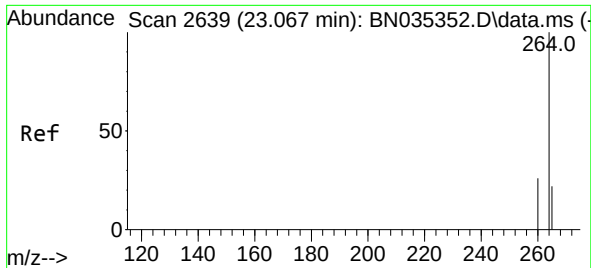
Tgt Ion:	228	Resp:	10584
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.6	37.0
229	20.6	15.9	23.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.408 ng
 RT: 20.902 min Scan# 2245
 Delta R.T. -0.009 min
 Lab File: BN035764.D
 Acq: 21 Dec 2024 04:34

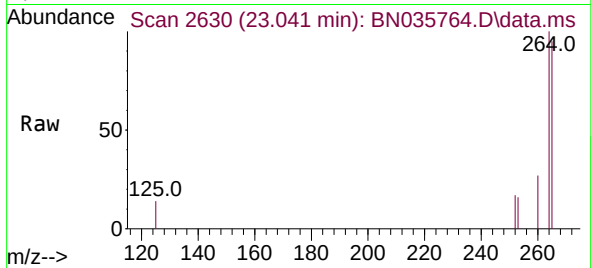
Tgt Ion:	149	Resp:	3462
Ion Ratio	Lower	Upper	
149	100		
167	28.3	22.2	33.4
279	4.2	2.7	4.1



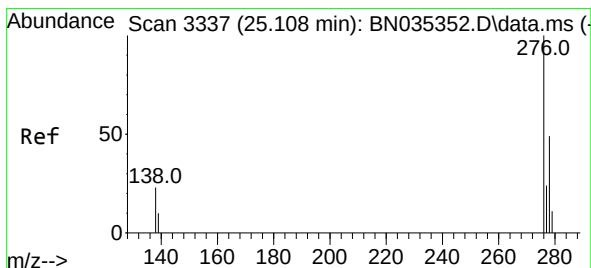
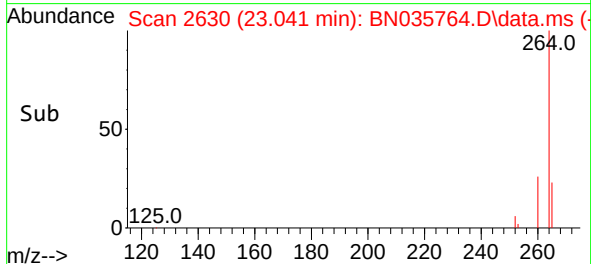
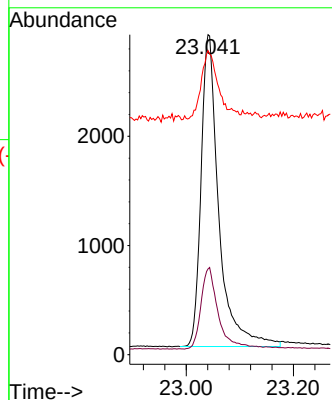


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.041 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

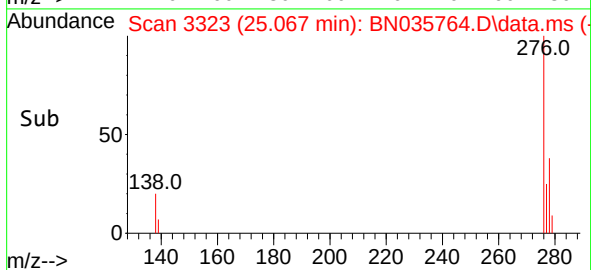
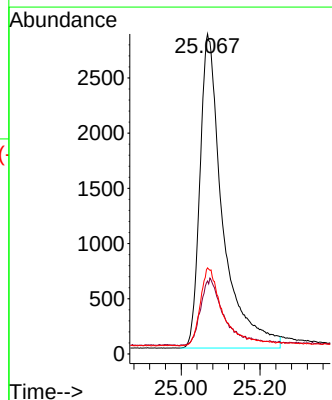
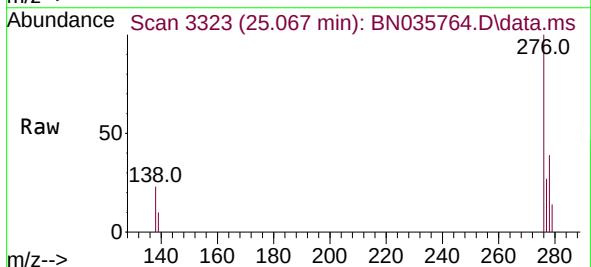


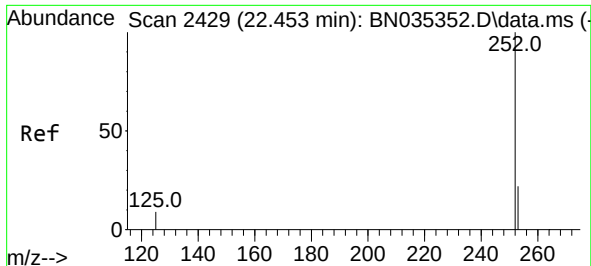
Tgt Ion:264 Resp: 6576
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 95.0 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:276 Resp: 11390
Ion Ratio Lower Upper
276 100
138 20.7 19.4 29.0
277 24.5 19.8 29.6

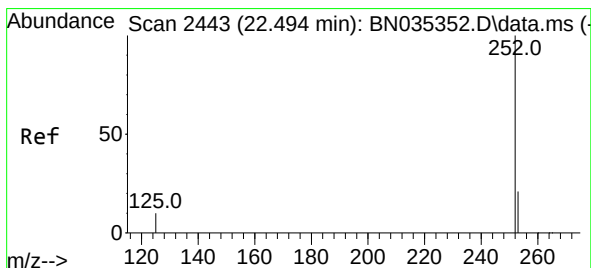
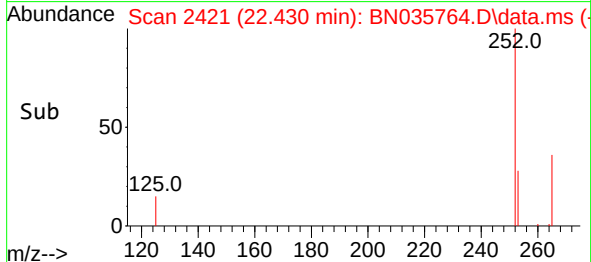
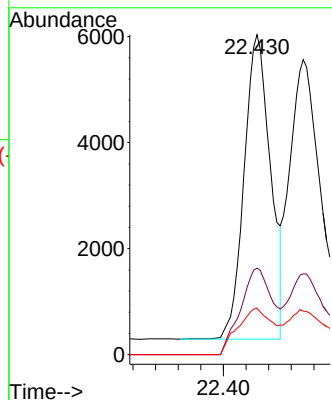
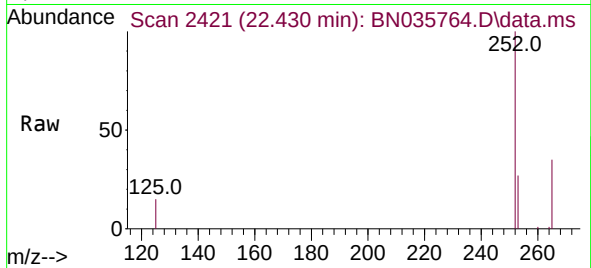




#37
Benzo(b)fluoranthene
Concen: 0.578 ng
RT: 22.430 min Scan# 2429
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

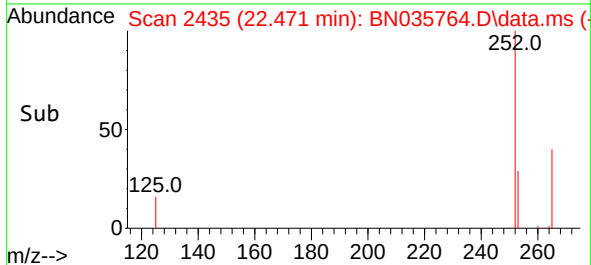
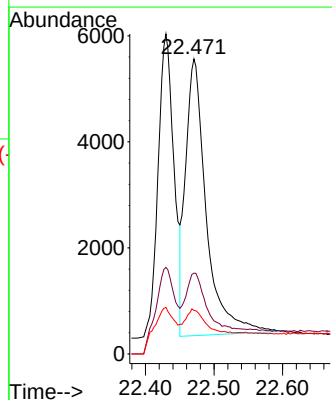
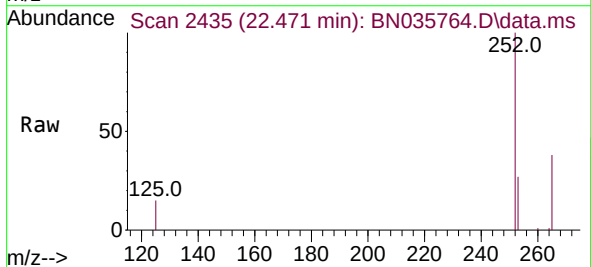
Instrument :
BNA_N
ClientSampleId :
PB165724BS

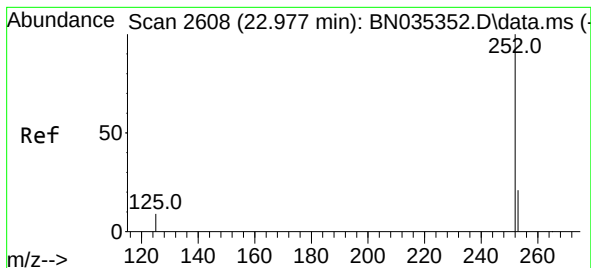
Tgt Ion:252 Resp: 13899
Ion Ratio Lower Upper
252 100
253 27.1 19.6 29.4
125 14.5 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.462 ng
RT: 22.471 min Scan# 2435
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:252 Resp: 10950
Ion Ratio Lower Upper
252 100
253 27.4 19.5 29.3
125 14.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.449 ng

RT: 22.956 min Scan# 2

Delta R.T. 0.005 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS

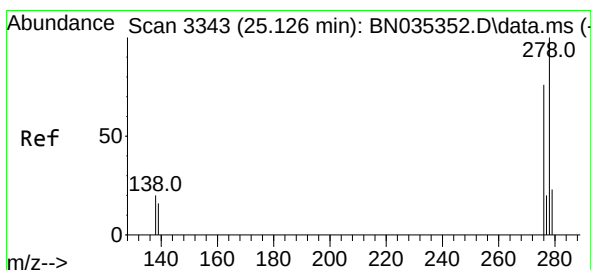
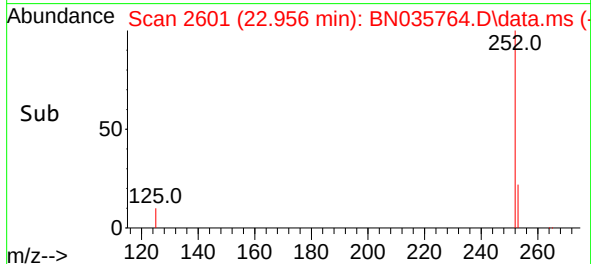
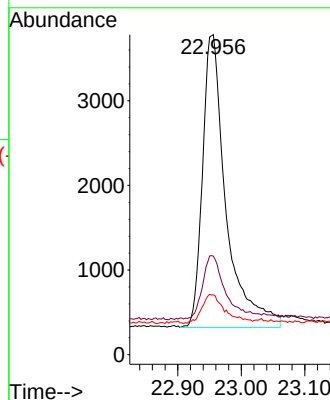
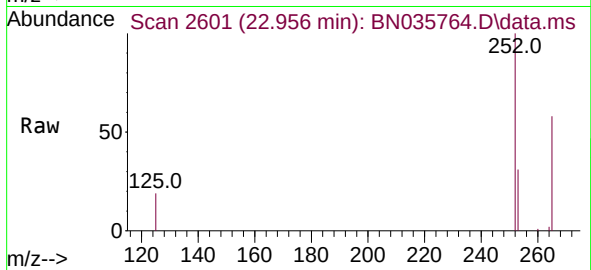
Tgt Ion:252 Resp: 8888

Ion Ratio Lower Upper

252 100

253 30.8 20.2 30.4#

125 18.7 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.412 ng

RT: 25.090 min Scan# 3331

Delta R.T. 0.008 min

Lab File: BN035764.D

Acq: 21 Dec 2024 04:34

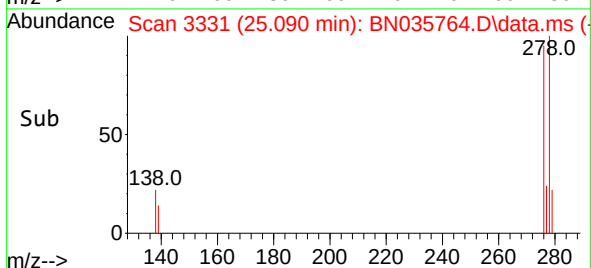
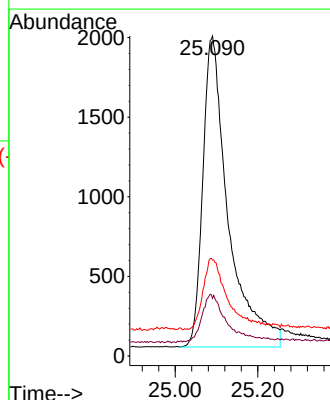
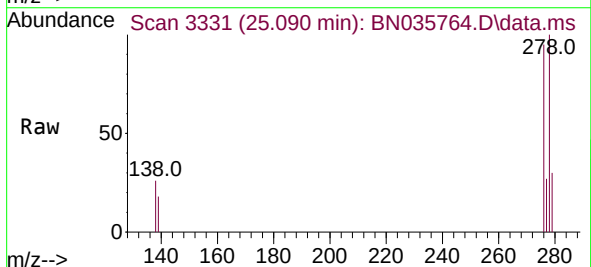
Tgt Ion:278 Resp: 8351

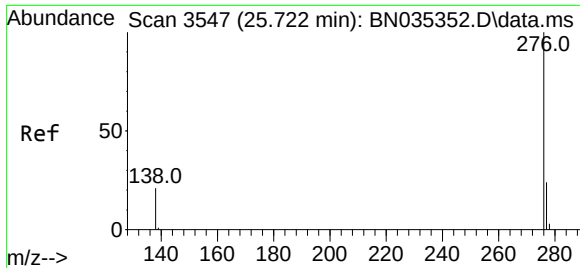
Ion Ratio Lower Upper

278 100

139 18.0 14.2 21.4

279 30.0 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.453 ng

RT: 25.678 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN035764.D

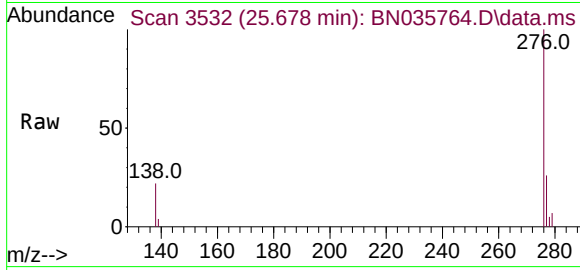
Acq: 21 Dec 2024 04:34

Instrument :

BNA_N

ClientSampleId :

PB165724BS



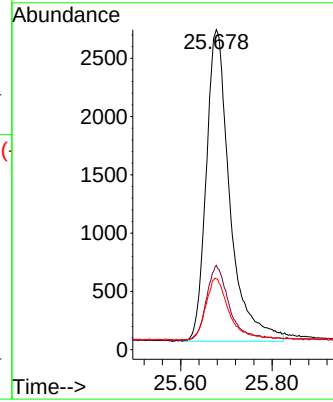
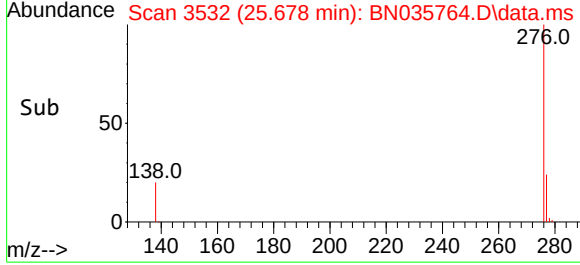
Tgt Ion:276 Resp: 9596

Ion Ratio Lower Upper

276 100

277 26.3 19.9 29.9

138 22.1 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
 Data File : BN035765.D
 Acq On : 21 Dec 2024 05:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 21 05:39:14 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

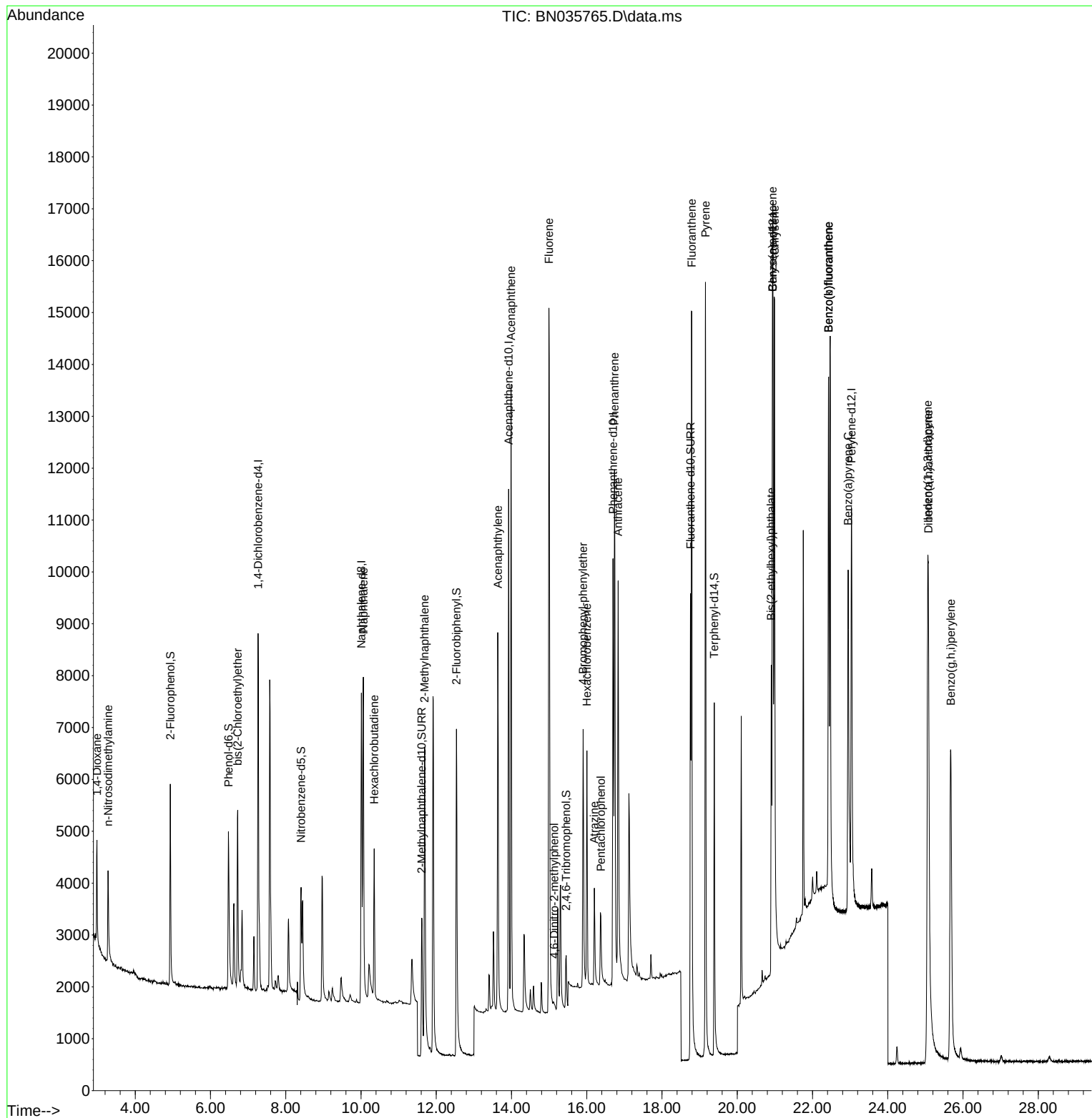
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3545	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	9106	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	5821	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	12321	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9836	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	10740	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	3403	0.384	ng	0.00
5) Phenol-d6	6.477	99	3879	0.364	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2756	0.496	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	5263	0.369	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	1253	0.303	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	8084	0.367	ng	0.00
27) Fluoranthene-d10	18.757	212	12191	0.349	ng	0.00
31) Terphenyl-d14	19.388	244	8488	0.437	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.982	88	1555	0.459	ng	96
3) n-Nitrosodimethylamine	3.278	42	1104	0.391	ng	# 93
6) bis(2-Chloroethyl)ether	6.723	93	3165	0.353	ng	98
9) Naphthalene	10.063	128	9097	0.379	ng	100
10) Hexachlorobutadiene	10.351	225	2300	0.415	ng	# 99
12) 2-Methylnaphthalene	11.692	142	6016	0.350	ng	99
16) Acenaphthylene	13.636	152	8764	0.359	ng	99
17) Acenaphthene	13.989	154	6047	0.373	ng	98
18) Fluorene	14.993	166	7942	0.342	ng	100
20) 4,6-Dinitro-2-methylph...	15.132	198	142	0.117	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2531	0.351	ng	# 83
22) Hexachlorobenzene	16.003	284	3667	0.433	ng	97
23) Atrazine	16.202	200	1895	0.369	ng	96
24) Pentachlorophenol	16.376	266	1177	0.320	ng	# 86
25) Phenanthrene	16.735	178	12350	0.365	ng	99
26) Anthracene	16.835	178	10612	0.347	ng	99
28) Fluoranthene	18.789	202	15375	0.337	ng	99
30) Pyrene	19.156	202	15587	0.429	ng	100
32) Benzo(a)anthracene	20.938	228	11659	0.339	ng	100
33) Chrysene	20.991	228	14263	0.402	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	5697	0.419	ng	99
36) Indeno(1,2,3-cd)pyrene	25.064	276	15666	0.373	ng	99
37) Benzo(b)fluoranthene	22.427	252	19003	0.484	ng	98
38) Benzo(k)fluoranthene	22.427	252	19003	0.491	ng	99
39) Benzo(a)pyrene	22.947	252	11742	0.363	ng	94
40) Dibenzo(a,h)anthracene	25.079	278	11661	0.352	ng	97
41) Benzo(g,h,i)perylene	25.675	276	14236	0.411	ng	99

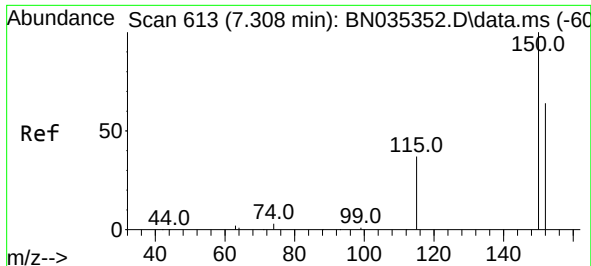
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

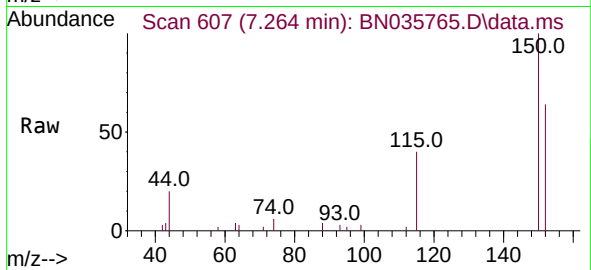
Quant Time: Dec 21 05:39:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



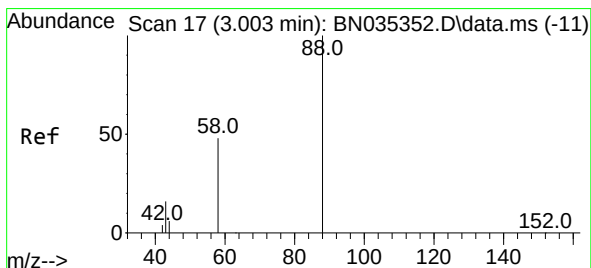
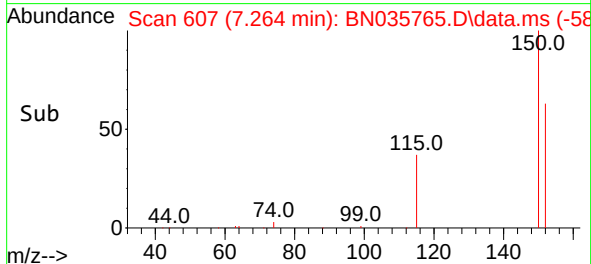
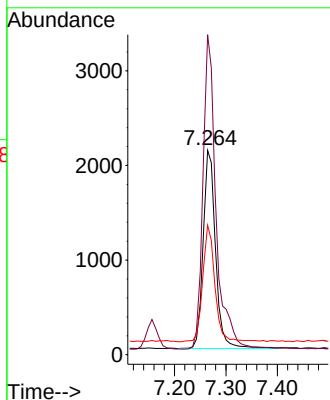


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

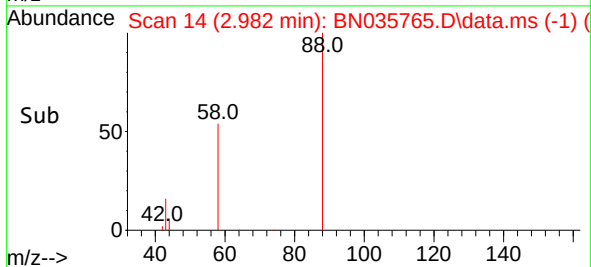
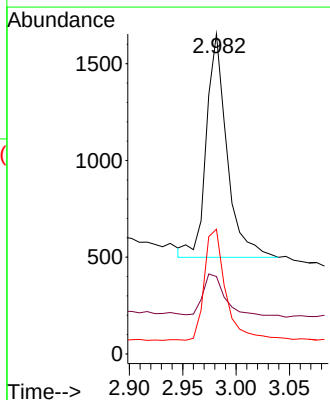
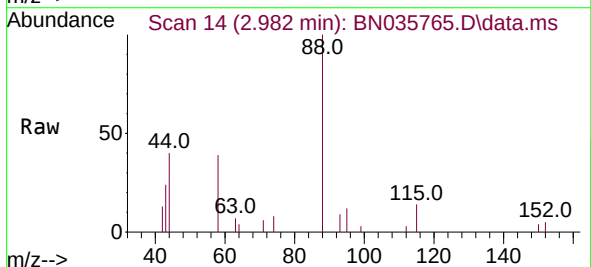


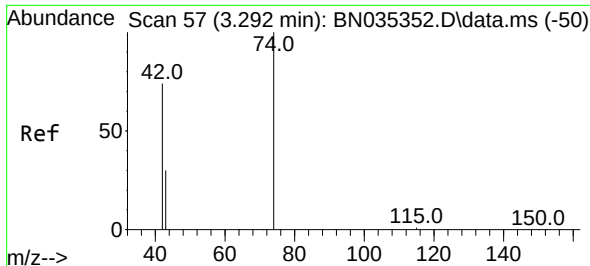
Tgt Ion:152 Resp: 3545
Ion Ratio Lower Upper
152 100
150 156.6 124.0 186.0
115 63.3 49.6 74.4



#2
1,4-Dioxane
Concen: 0.459 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 88 Resp: 1555
Ion Ratio Lower Upper
88 100
43 22.1 17.2 25.8
58 52.2 44.5 66.7

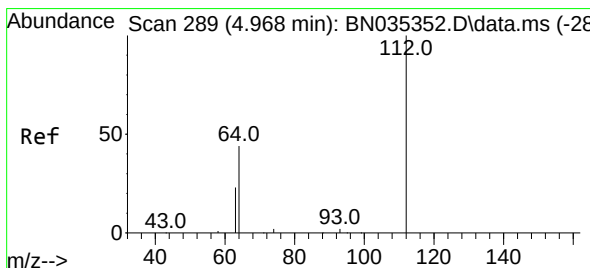
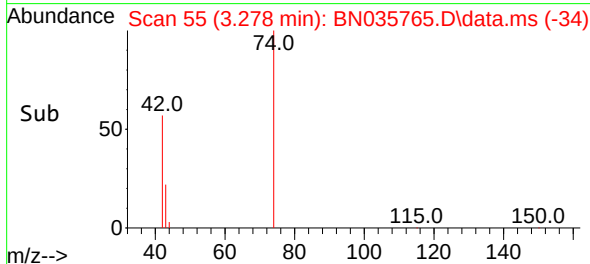
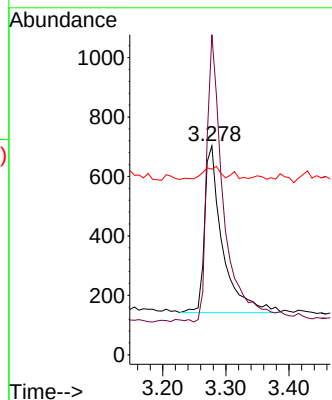
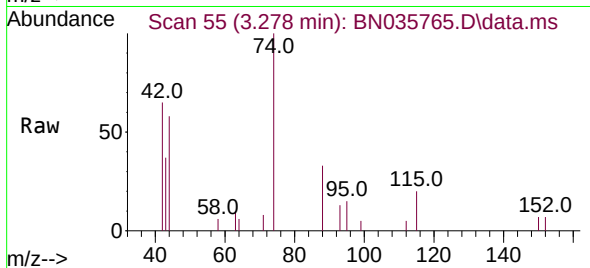




#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.278 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

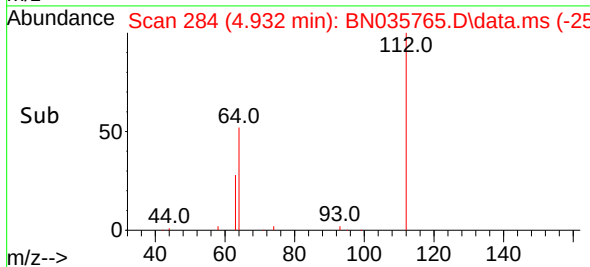
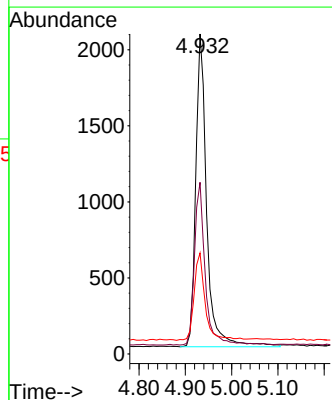
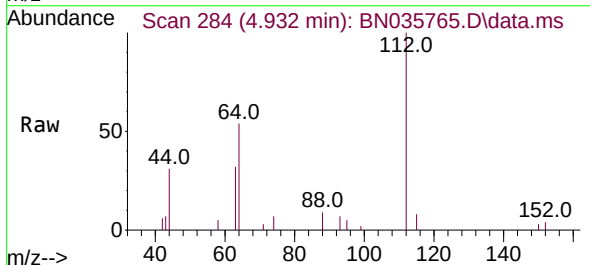
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

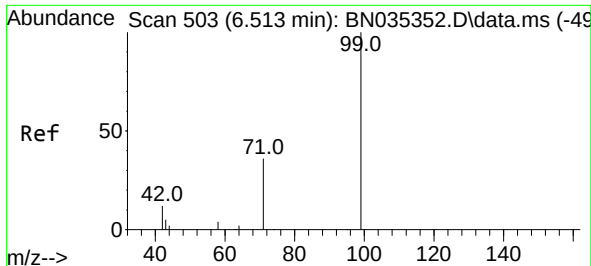
Tgt Ion: 42 Resp: 1104
Ion Ratio Lower Upper
42 100
74 165.7 124.9 187.3
44 6.3 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.384 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 112 Resp: 3403
Ion Ratio Lower Upper
112 100
64 51.2 39.8 59.8
63 28.0 21.0 31.6

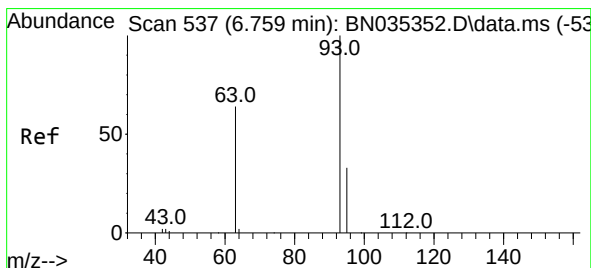
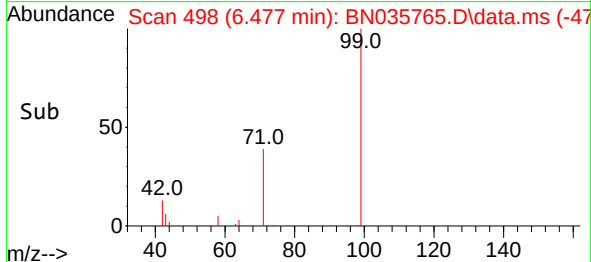
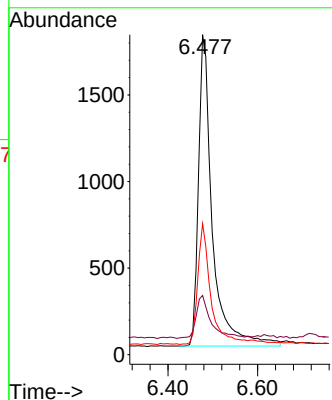
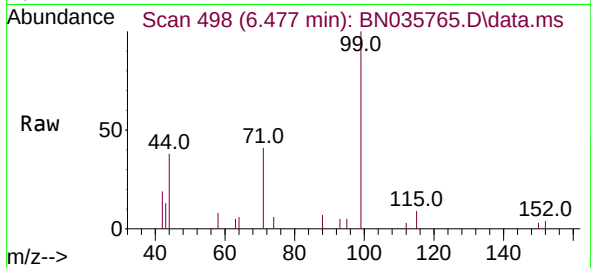




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

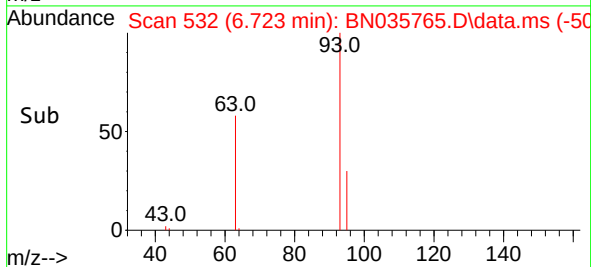
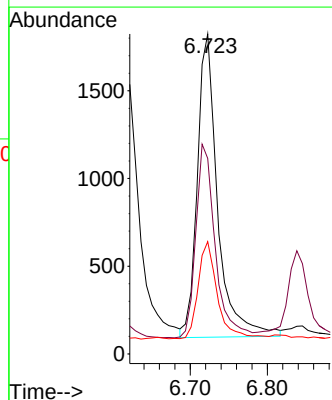
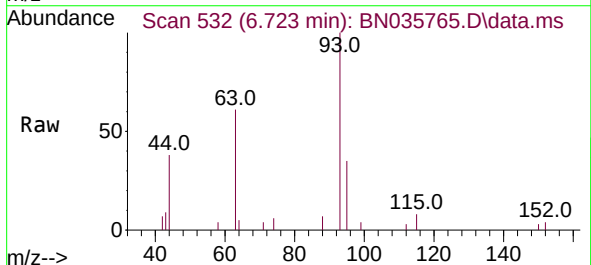
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

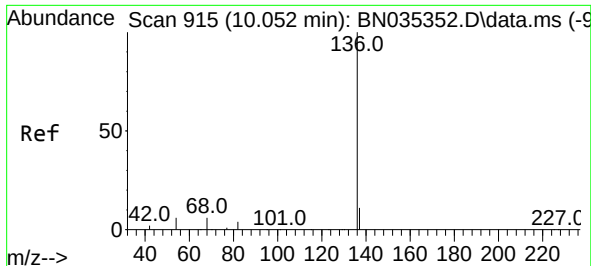
Tgt Ion:	99	Resp:	3879
Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	35.9	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:	93	Resp:	3165
Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	30.6	25.7	38.5

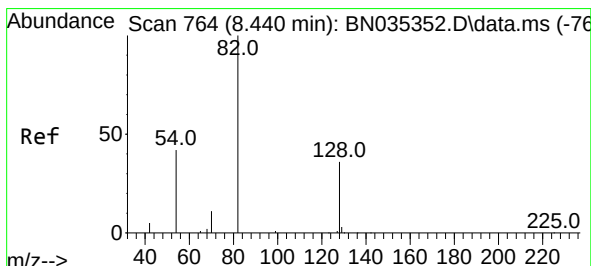
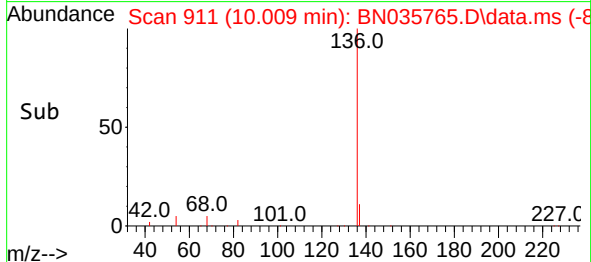
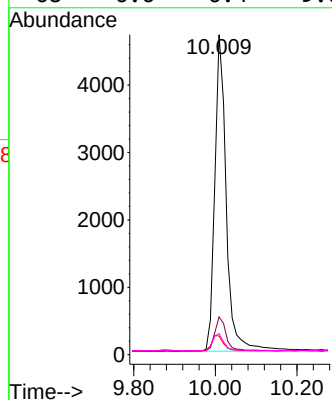
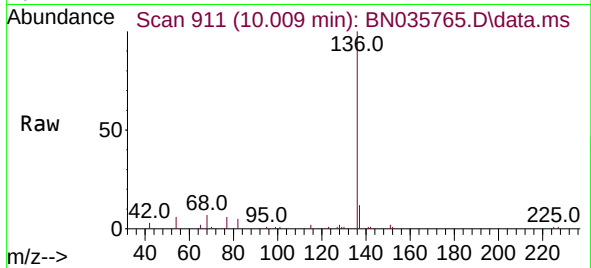




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

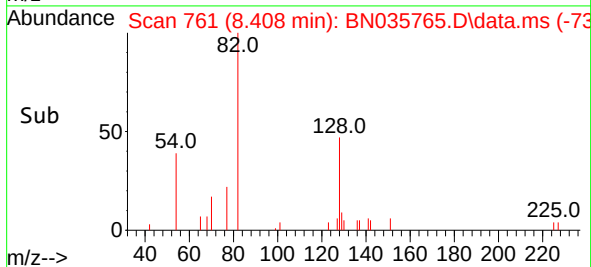
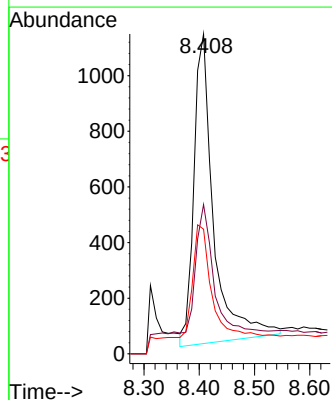
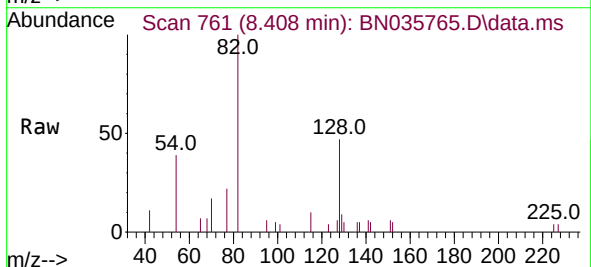
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

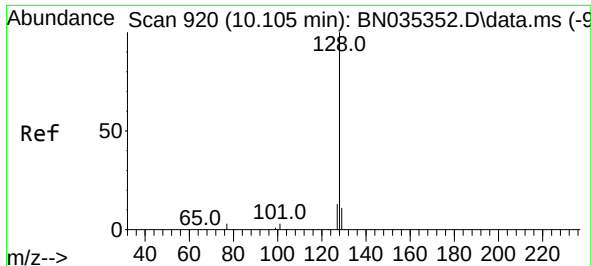
Tgt Ion:	136	Resp:	9106
Ion Ratio	Lower	Upper	
136	100		
137	11.8	10.2	15.2
54	5.8	6.1	9.1#
68	6.6	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.496 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:	82	Resp:	2756
Ion Ratio	Lower	Upper	
82	100		
128	46.7	33.4	50.0
54	39.0	36.7	55.1

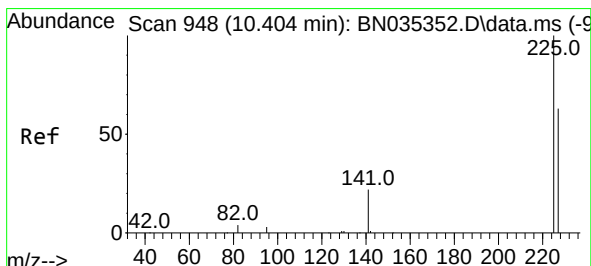
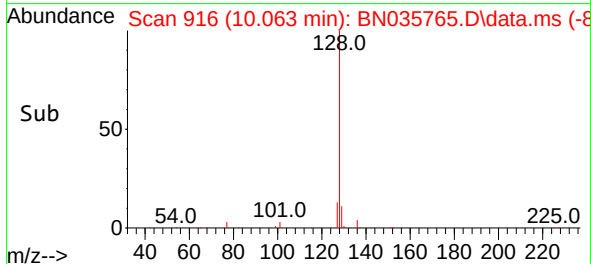
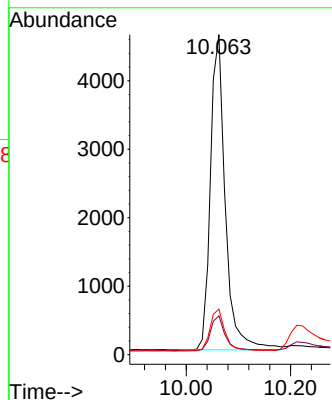
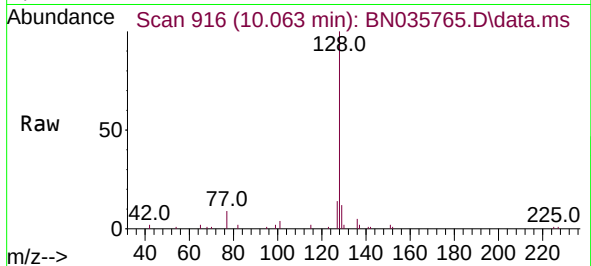




#9
Naphthalene
Concen: 0.379 ng
RT: 10.063 min Scan# 916
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

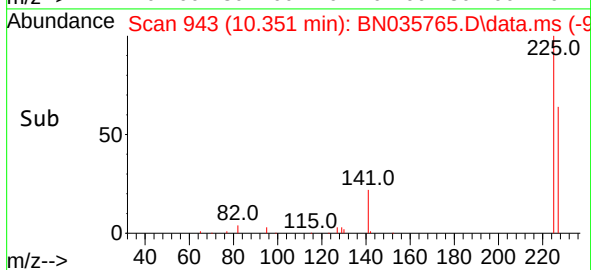
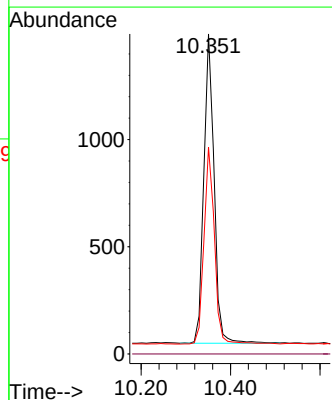
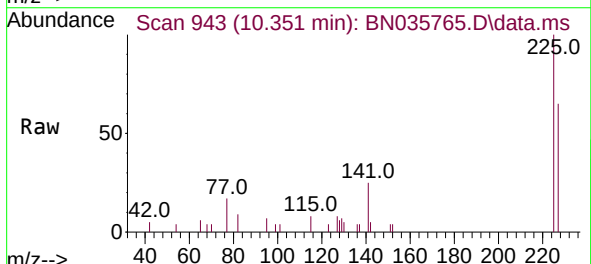
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

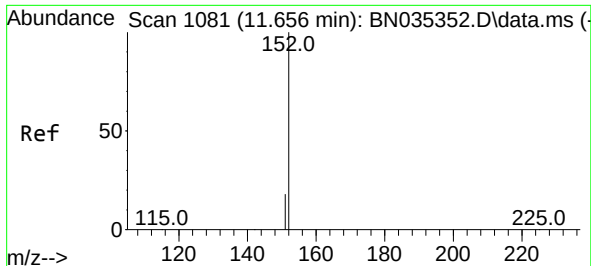
Tgt Ion:128 Resp: 9097
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:225 Resp: 2300
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.0 51.3 76.9

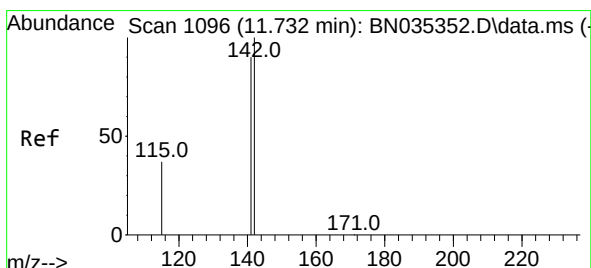
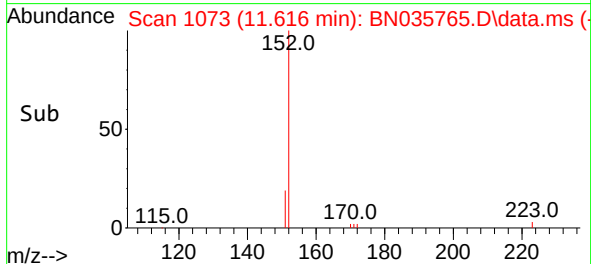
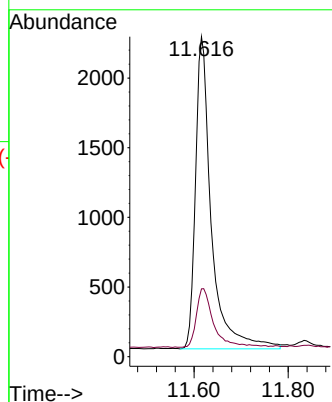
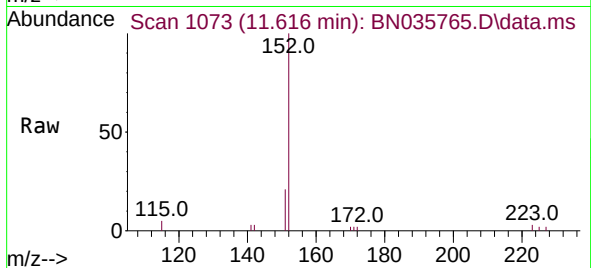




#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

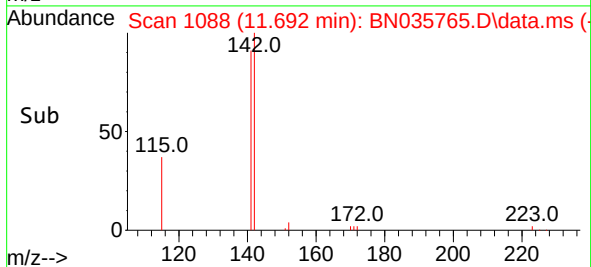
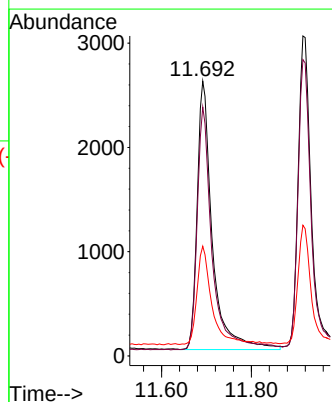
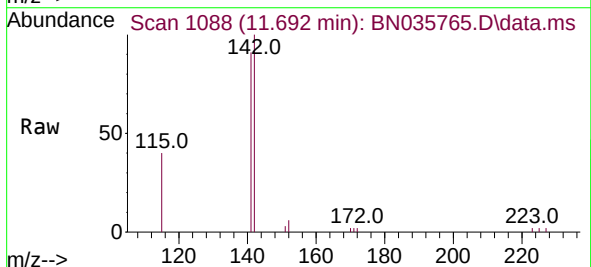
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

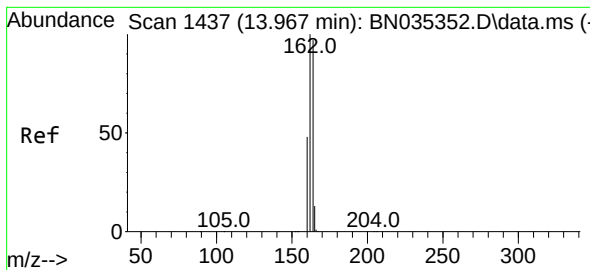
Tgt Ion:152 Resp: 5263
Ion Ratio Lower Upper
152 100
151 19.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:142 Resp: 6016
Ion Ratio Lower Upper
142 100
141 90.5 72.2 108.4
115 39.9 31.4 47.0

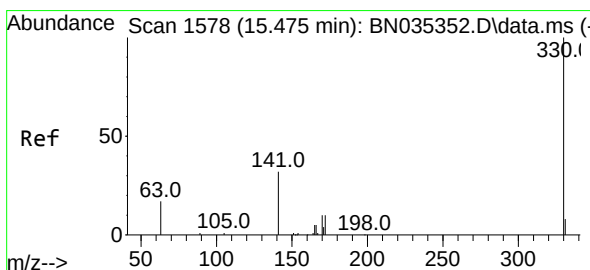
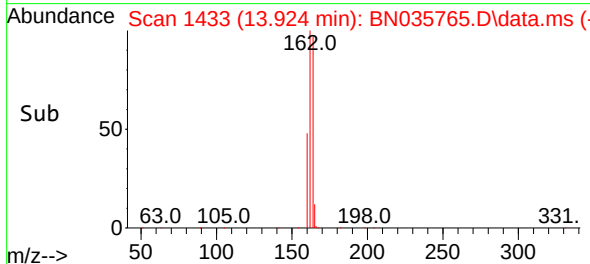
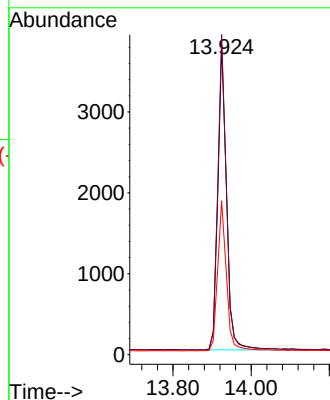
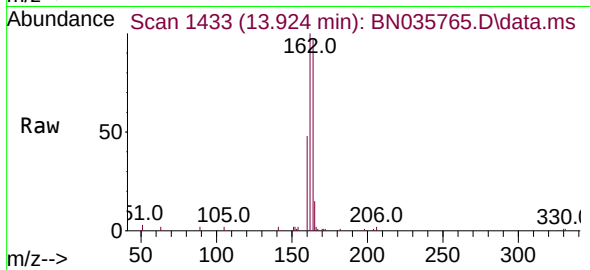




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

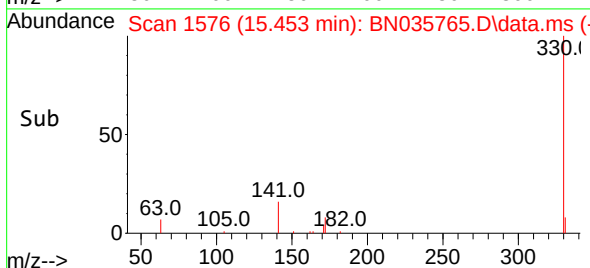
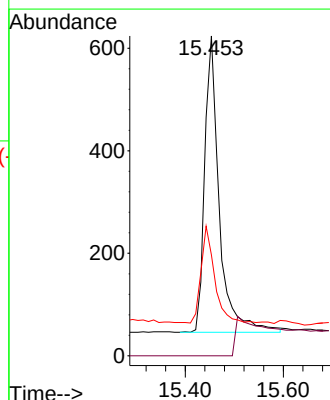
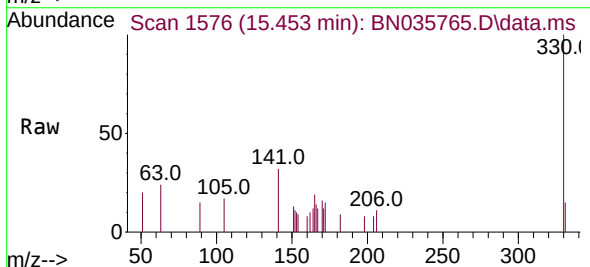
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

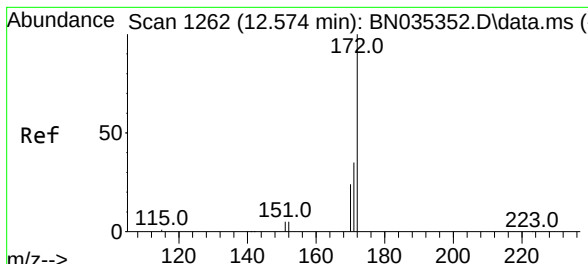
Tgt Ion:164 Resp: 5821
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.2
160 49.6 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.303 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:330 Resp: 1253
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.6 26.6 40.0

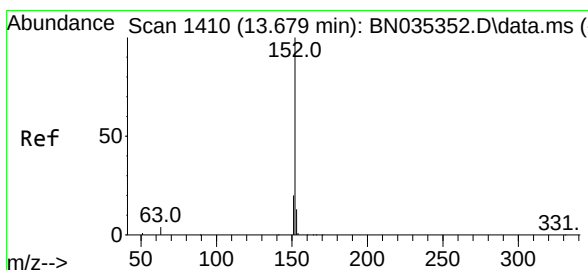
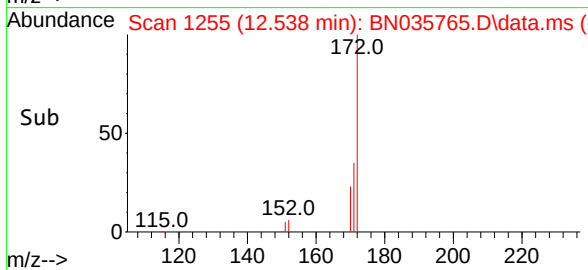
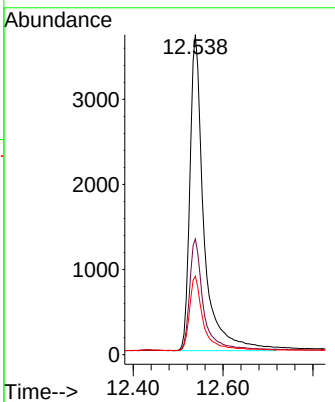
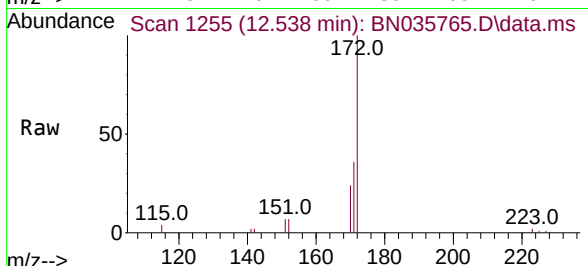




#15
 2-Fluorobiphenyl
 Concen: 0.367 ng
 RT: 12.538 min Scan# 11
 Delta R.T. -0.005 min
 Lab File: BN035765.D
 Acq: 21 Dec 2024 05:10

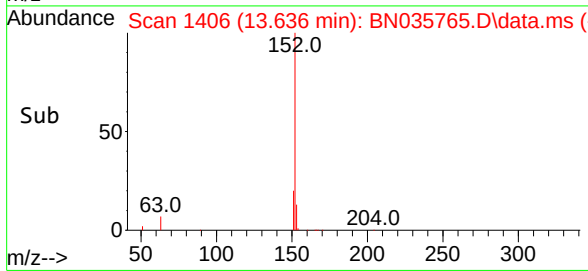
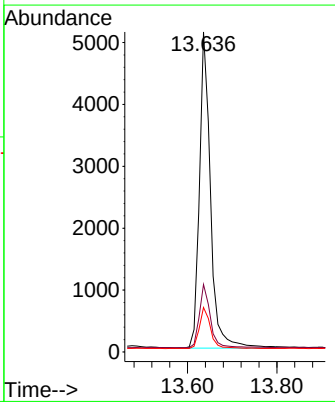
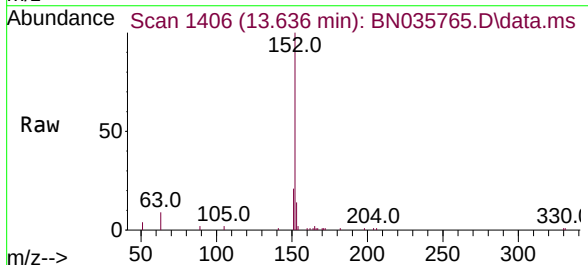
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

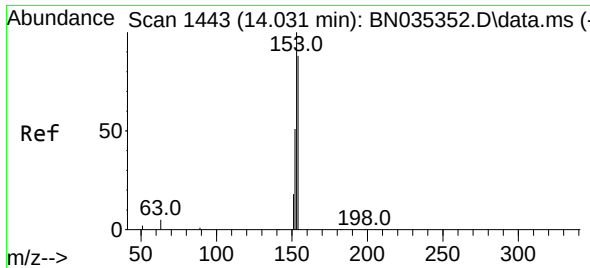
Tgt Ion:	172	Resp:	8084
Ion Ratio	Lower	Upper	
172	100		
171	36.1	29.0	43.4
170	24.5	19.8	29.8



#16
 Acenaphthylene
 Concen: 0.359 ng
 RT: 13.636 min Scan# 1406
 Delta R.T. -0.011 min
 Lab File: BN035765.D
 Acq: 21 Dec 2024 05:10

Tgt Ion:	152	Resp:	8764
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.2	24.2
153	13.0	10.4	15.6

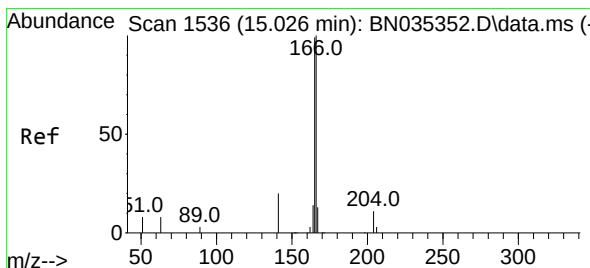
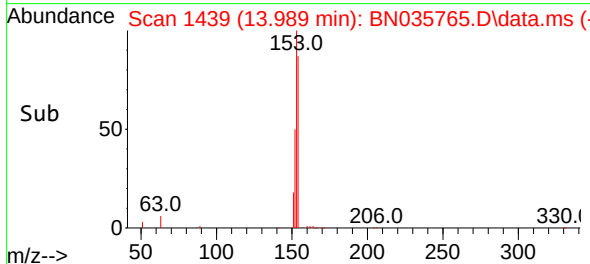
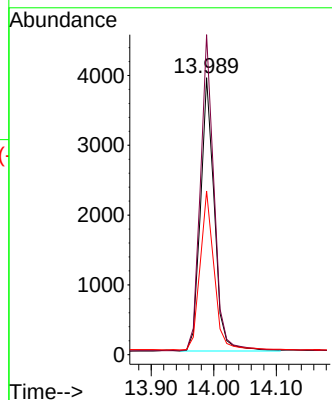
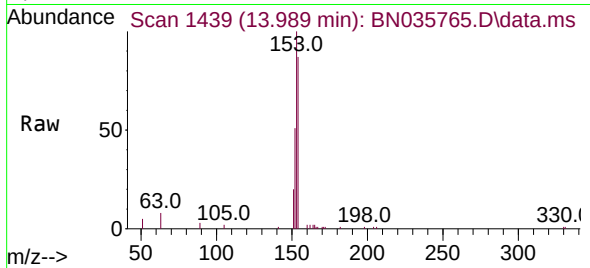




#17
Acenaphthene
Concen: 0.373 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

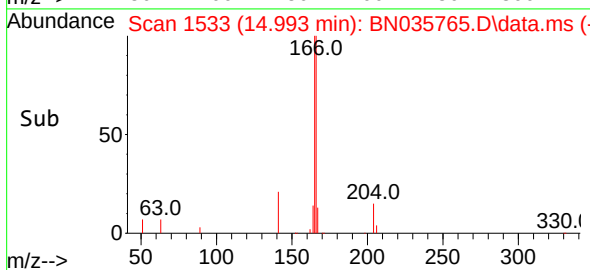
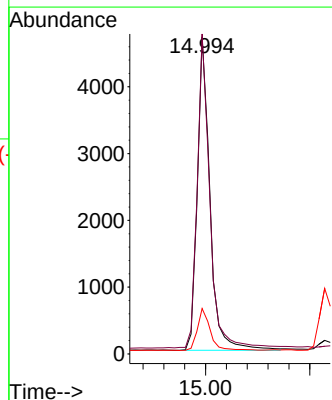
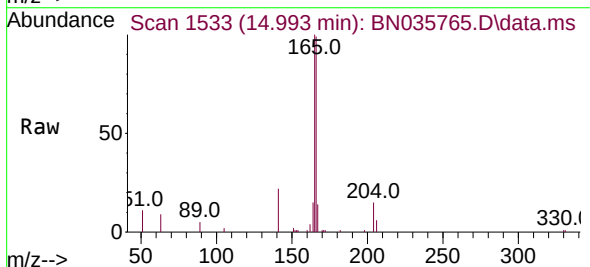
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

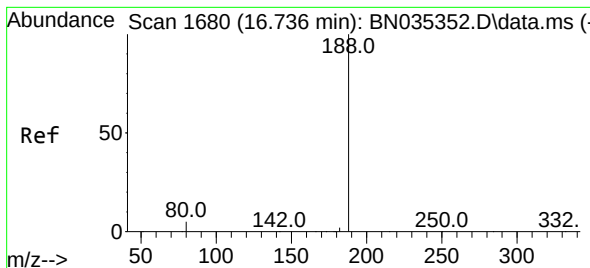
Tgt Ion:154 Resp: 6047
Ion Ratio Lower Upper
154 100
153 114.7 92.6 139.0
152 58.8 49.0 73.6



#18
Fluorene
Concen: 0.342 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:166 Resp: 7942
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

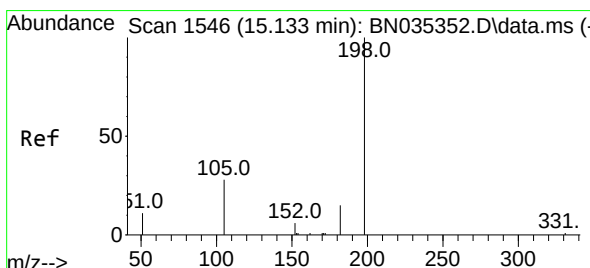
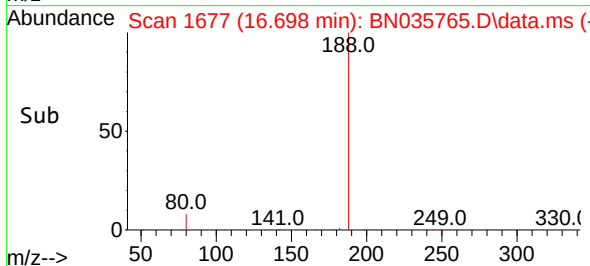
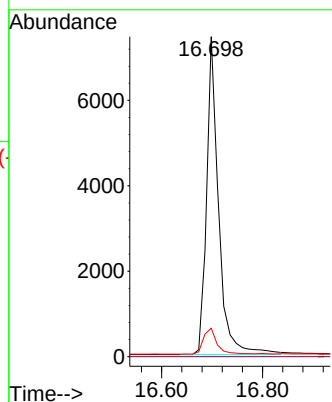
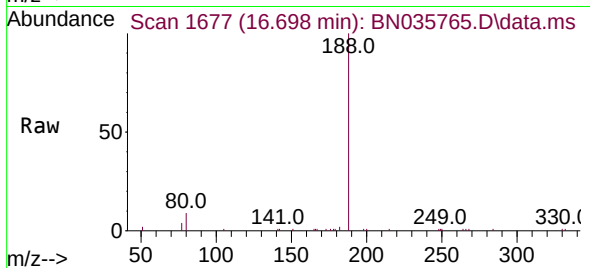
Tgt Ion:188 Resp: 12321

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.117 ng

RT: 15.132 min Scan# 1546

Delta R.T. 0.011 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

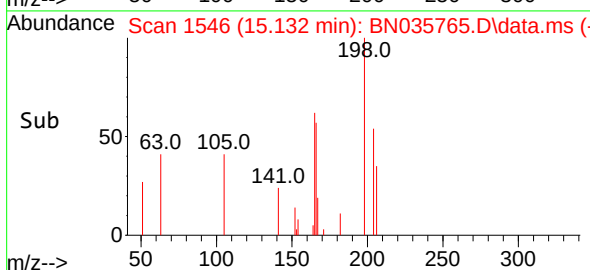
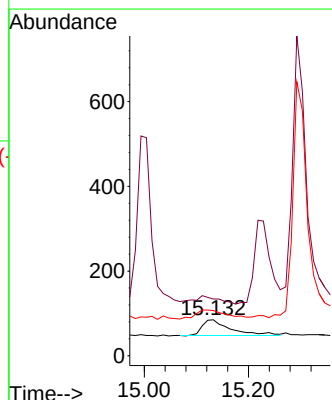
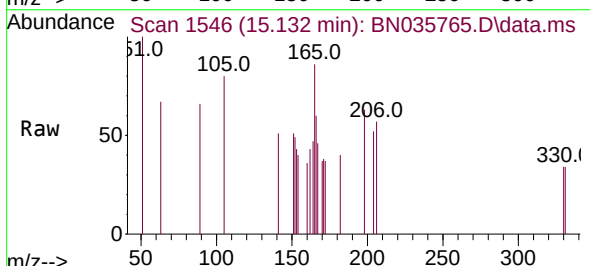
Tgt Ion:198 Resp: 142

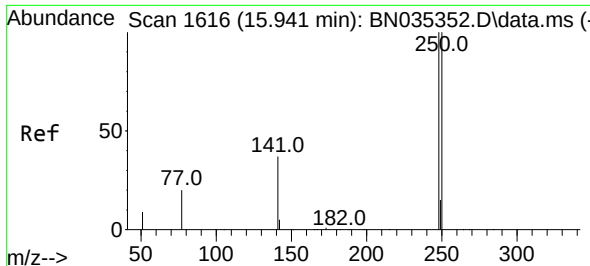
Ion Ratio Lower Upper

198 100

51 157.6 46.5 69.7#

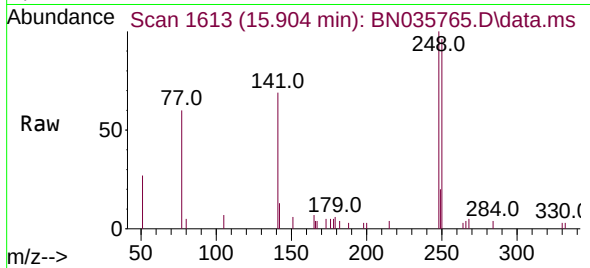
105 125.9 45.3 67.9#



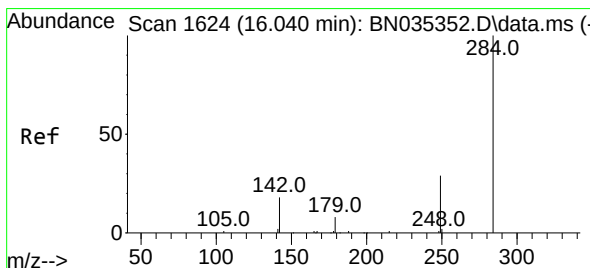
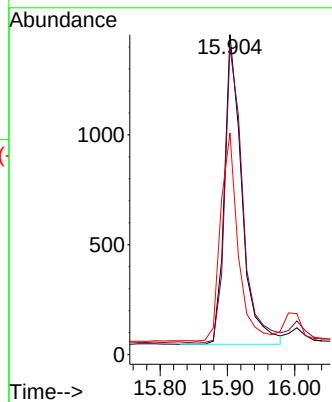
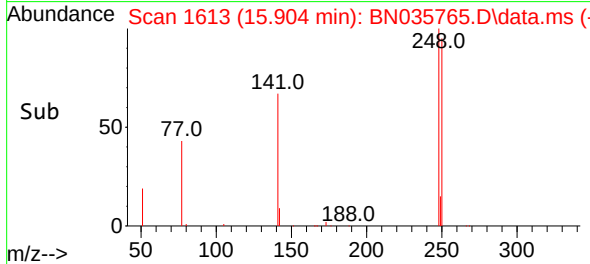


#21
4-Bromophenyl-phenylether
Concen: 0.351 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

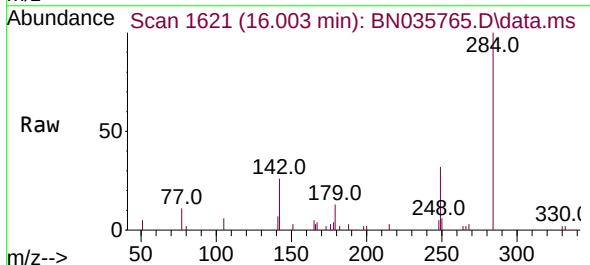
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



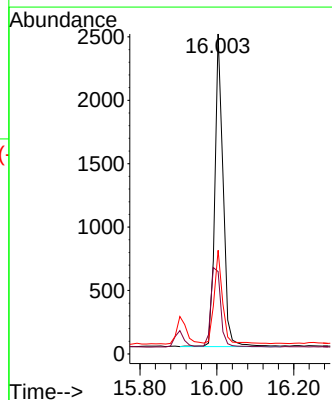
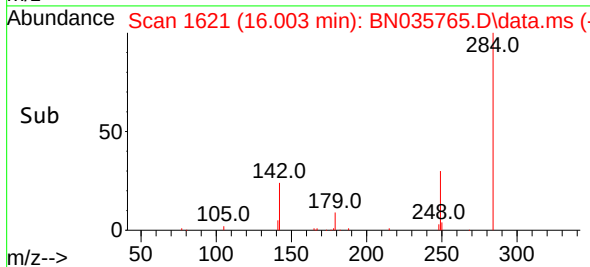
Tgt Ion:248 Resp: 2531
Ion Ratio Lower Upper
248 100
250 96.2 80.6 120.8
141 69.2 31.5 47.3#

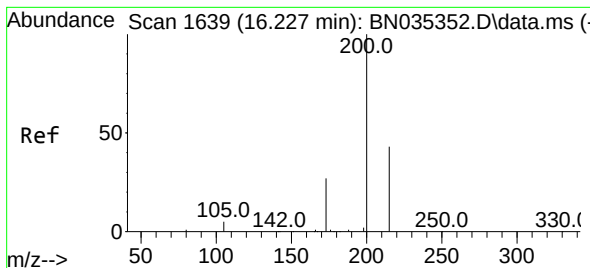


#22
Hexachlorobenzene
Concen: 0.433 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10



Tgt Ion:284 Resp: 3667
Ion Ratio Lower Upper
284 100
142 30.7 26.7 40.1
249 29.9 24.6 36.8





#23

Atrazine

Concen: 0.369 ng

RT: 16.202 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

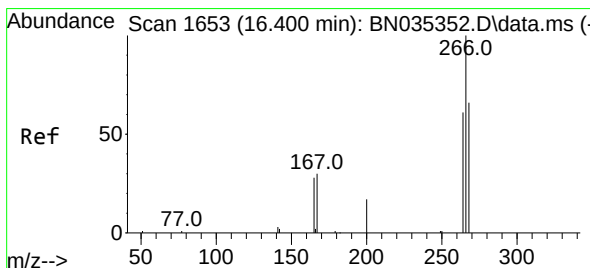
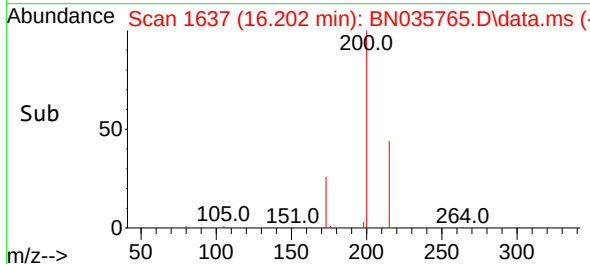
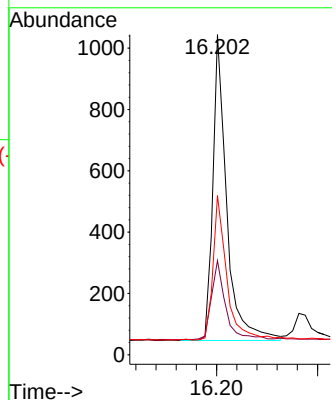
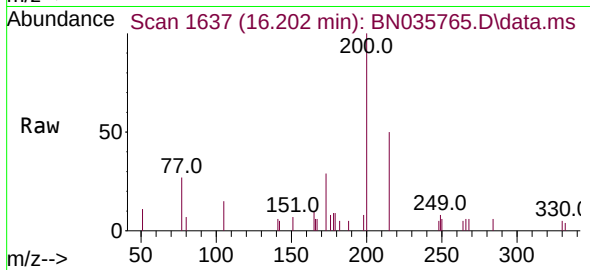
Tgt Ion:200 Resp: 1895

Ion Ratio Lower Upper

200 100

173 29.4 24.1 36.1

215 49.7 36.9 55.3



#24

Pentachlorophenol

Concen: 0.320 ng

RT: 16.376 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

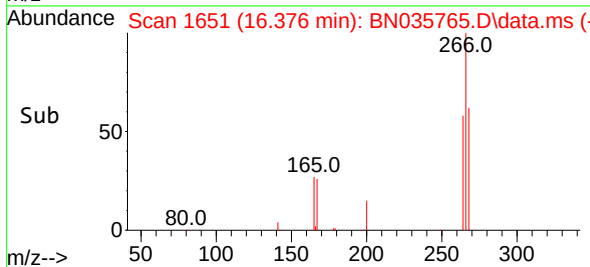
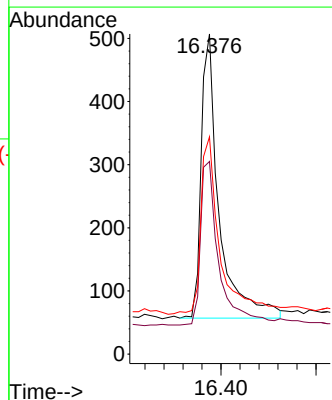
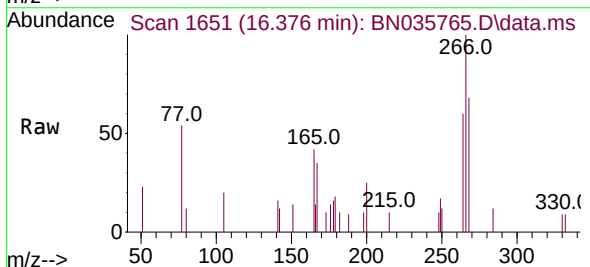
Tgt Ion:266 Resp: 1177

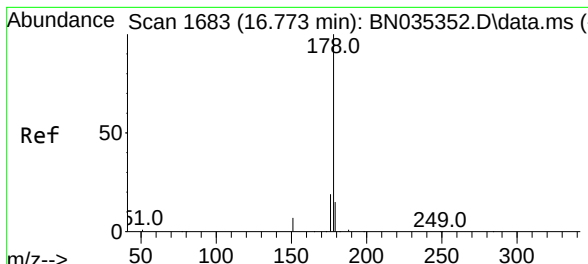
Ion Ratio Lower Upper

266 100

264 59.3 42.3 63.5

268 67.2 43.3 64.9#

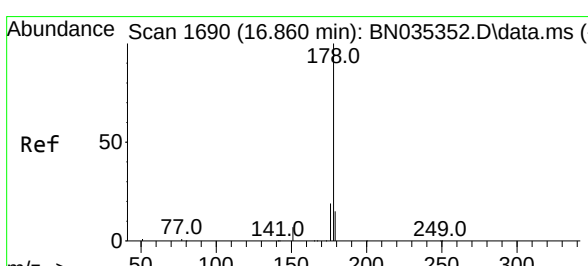
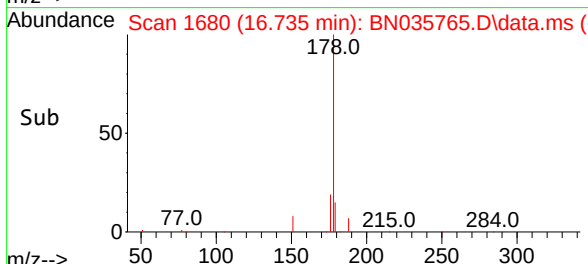
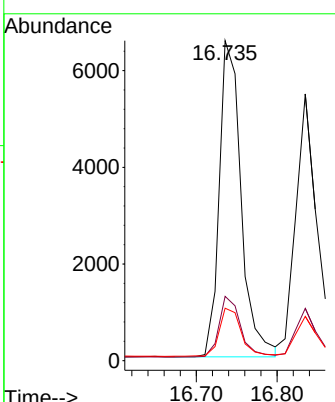
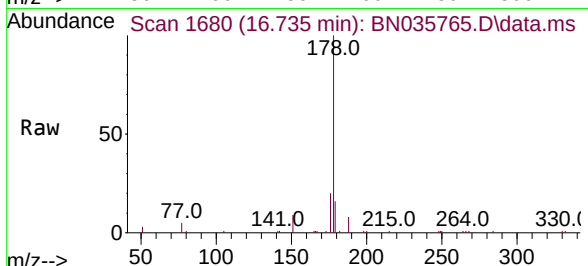




#25
 Phenanthrene
 Concen: 0.365 ng
 RT: 16.735 min Scan# 1680
 Delta R.T. -0.013 min
 Lab File: BN035765.D
 Acq: 21 Dec 2024 05:10

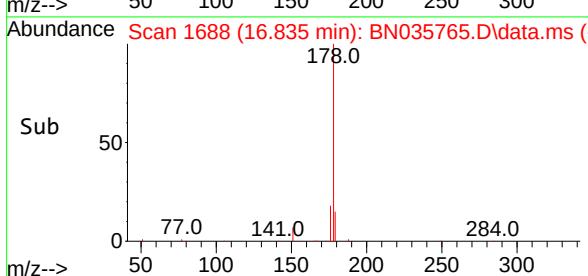
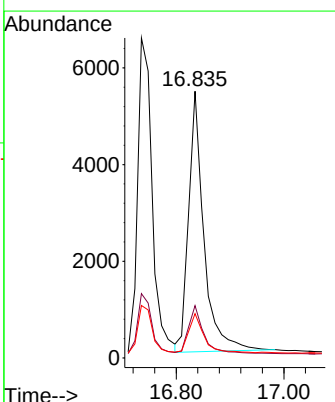
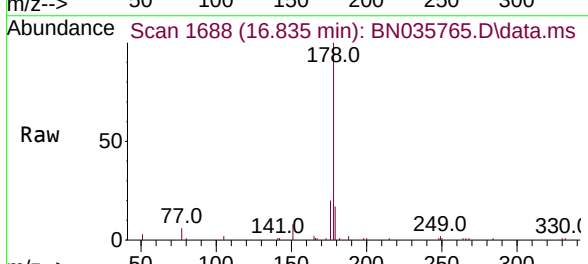
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

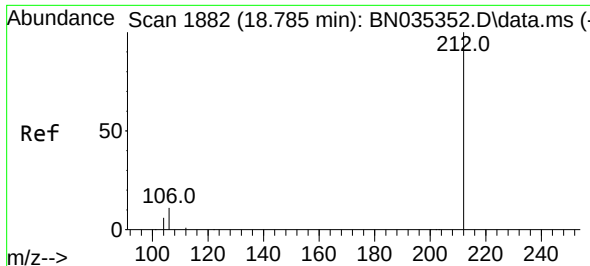
Tgt Ion:	178	Resp:	12350
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.4	23.2
179	15.4	12.3	18.5



#26
 Anthracene
 Concen: 0.347 ng
 RT: 16.835 min Scan# 1688
 Delta R.T. -0.000 min
 Lab File: BN035765.D
 Acq: 21 Dec 2024 05:10

Tgt Ion:	178	Resp:	10612
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.0	22.6
179	15.2	12.6	18.8

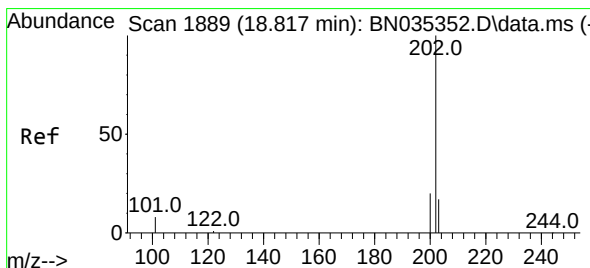
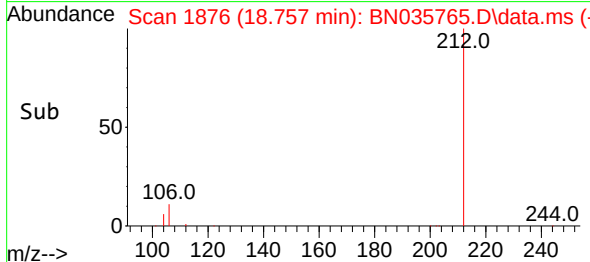
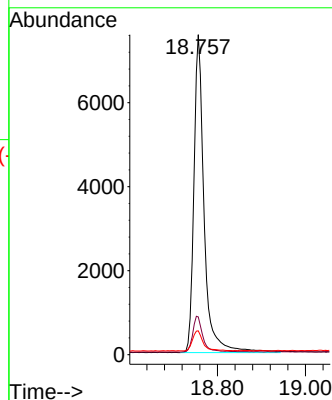
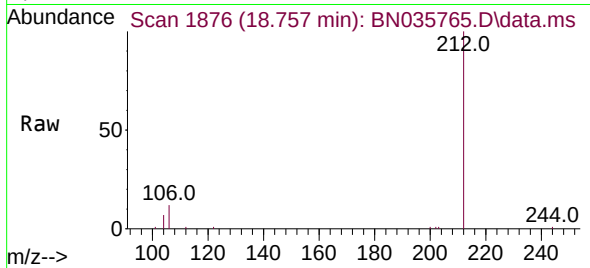




#27
Fluoranthene-d10
Concen: 0.349 ng
RT: 18.757 min Scan# 1876
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

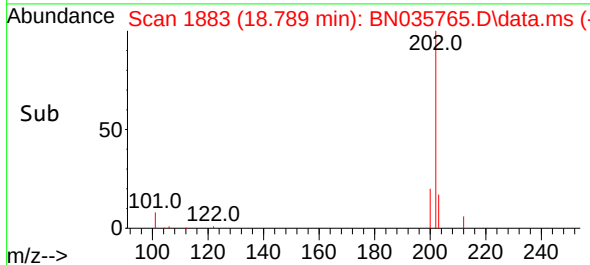
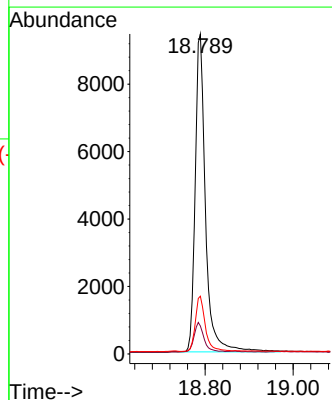
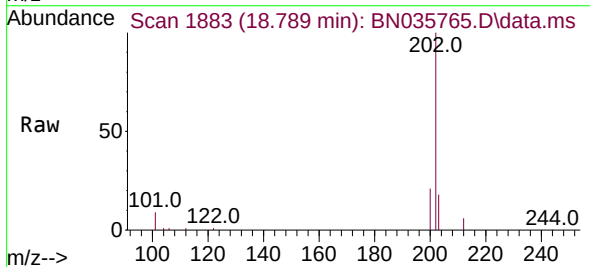
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

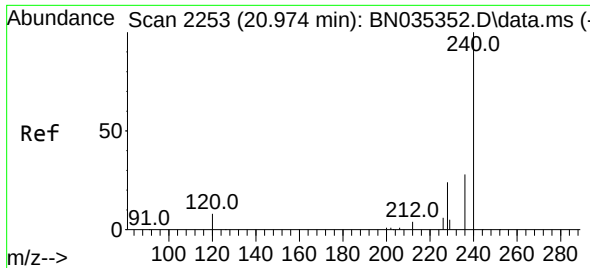
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.5	5.3	7.9



#28
Fluoranthene
Concen: 0.337 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	16.8	13.7	20.5

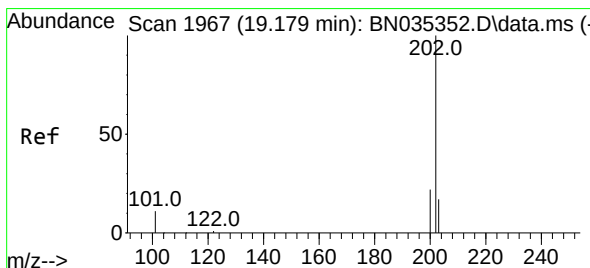
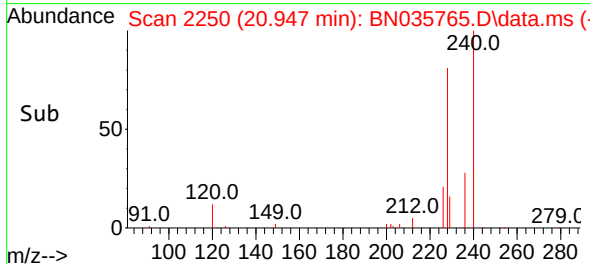
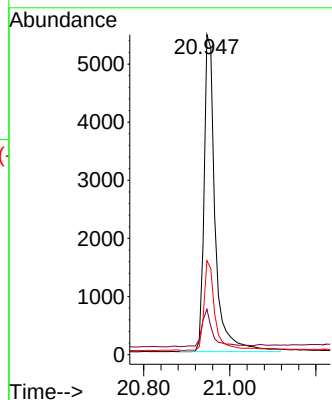
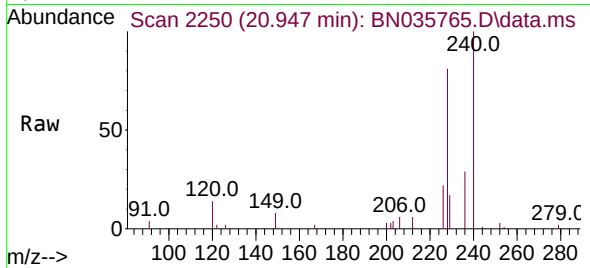




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

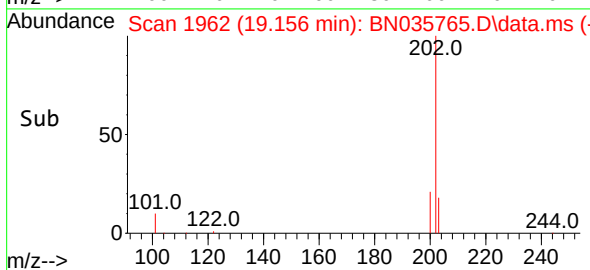
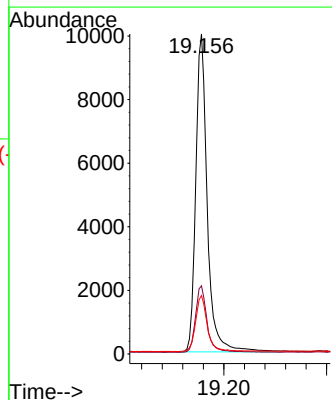
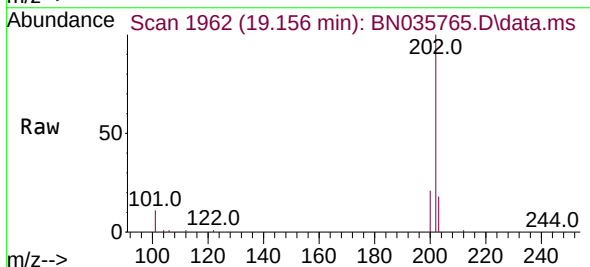
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

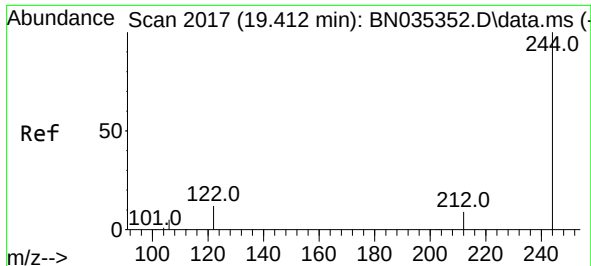
Tgt Ion:240 Resp: 9836
Ion Ratio Lower Upper
240 100
120 14.2 7.9 11.9#
236 29.4 22.9 34.3



#30
Pyrene
Concen: 0.429 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

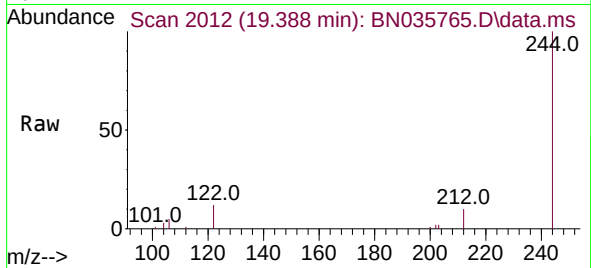
Tgt Ion:202 Resp: 15587
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 18.0 14.3 21.5



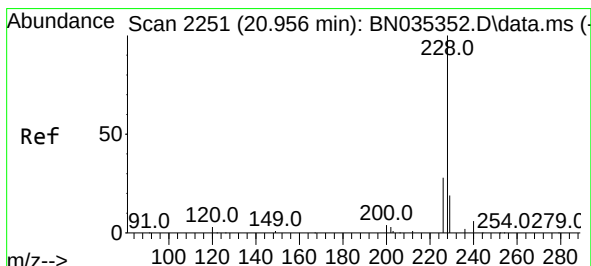
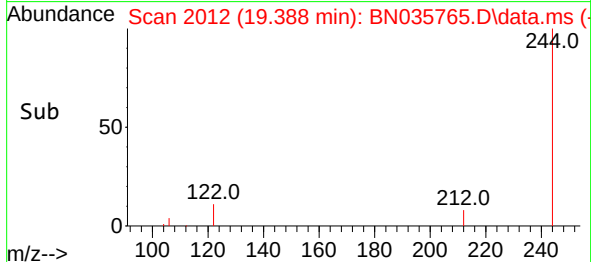
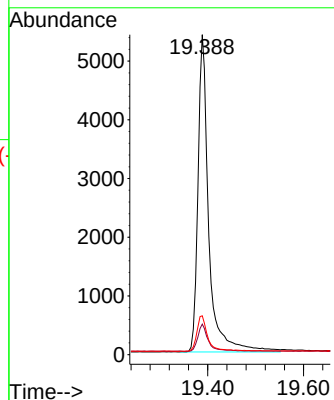


#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.388 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

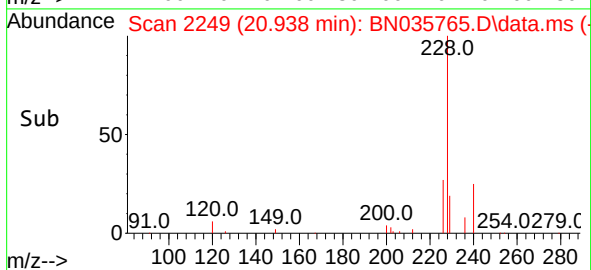
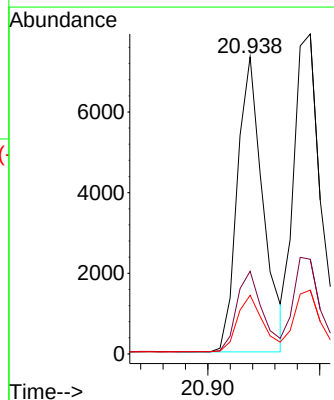
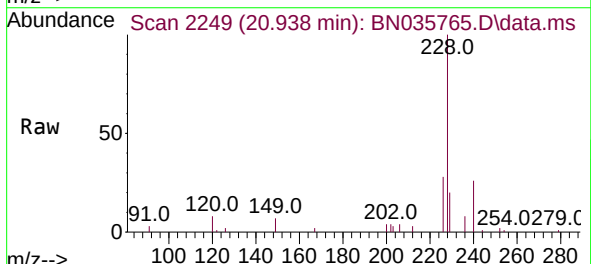


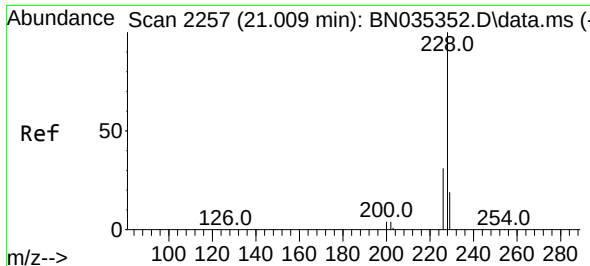
Tgt Ion:244 Resp: 8488
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 12.1 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.339 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:228 Resp: 11659
Ion Ratio Lower Upper
228 100
226 27.9 22.5 33.7
229 19.8 15.8 23.8

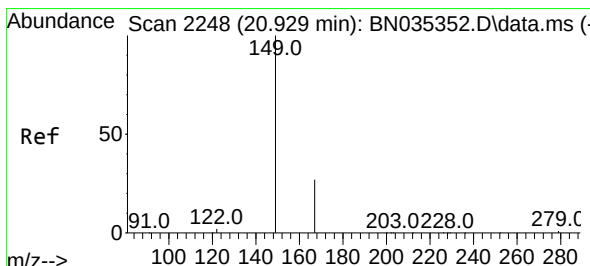
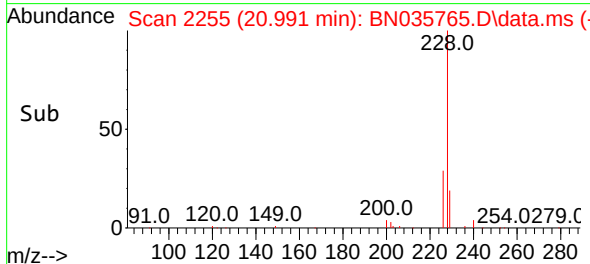
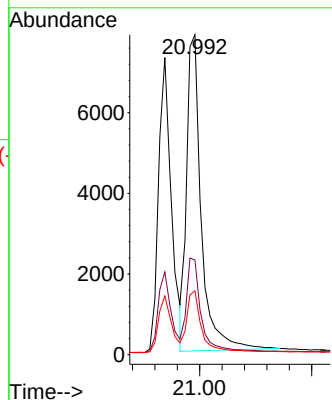
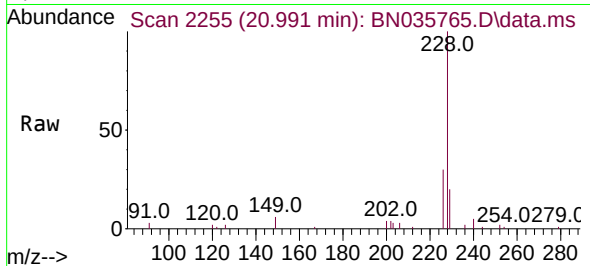




#33
Chrysene
Concen: 0.402 ng
RT: 20.991 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

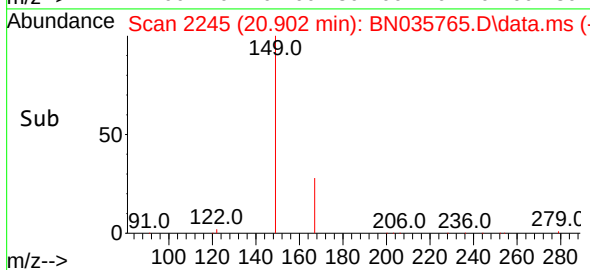
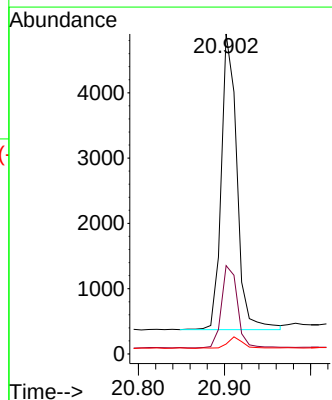
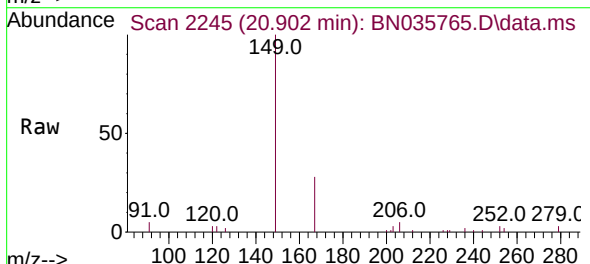
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

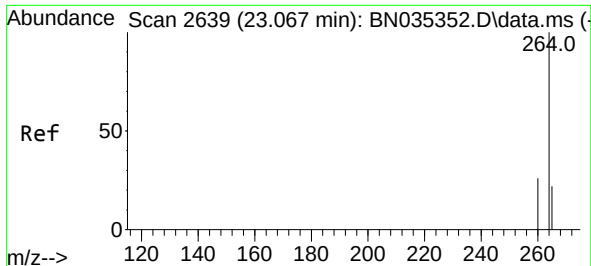
Tgt Ion:228	Resp:	14263
Ion Ratio	Lower	Upper
228	100	
226	29.6	24.6 37.0
229	20.0	15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.419 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

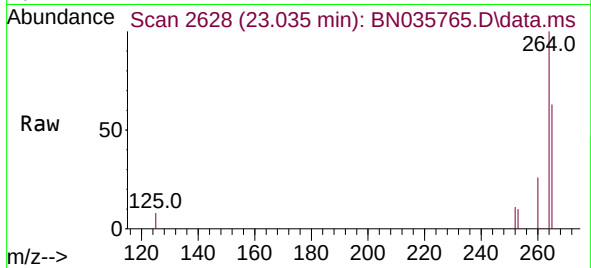
Tgt Ion:149	Resp:	5697
Ion Ratio	Lower	Upper
149	100	
167	28.5	22.2 33.4
279	3.9	2.7 4.1



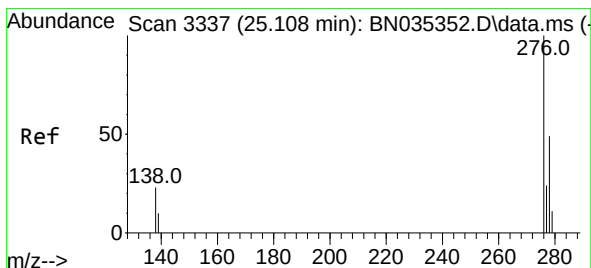
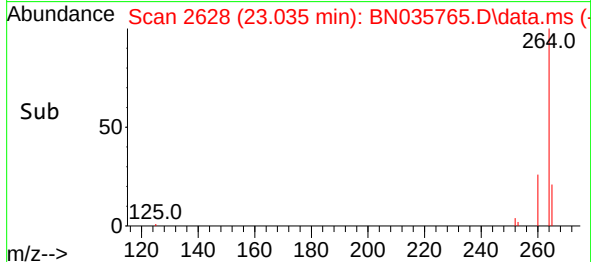
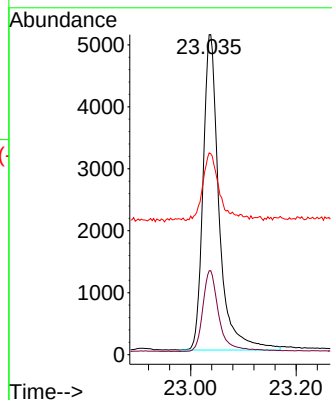


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

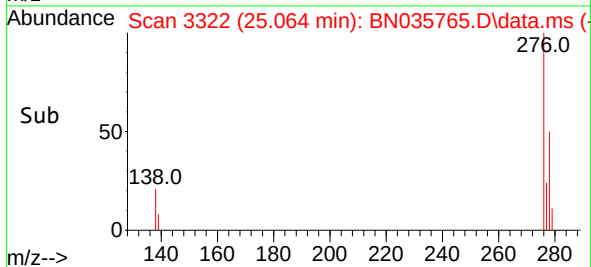
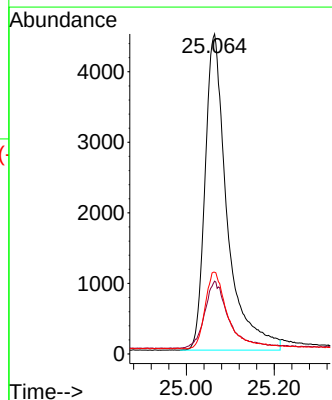
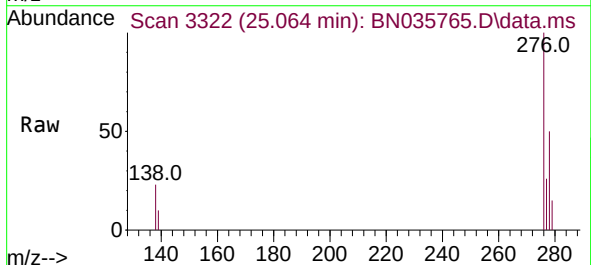


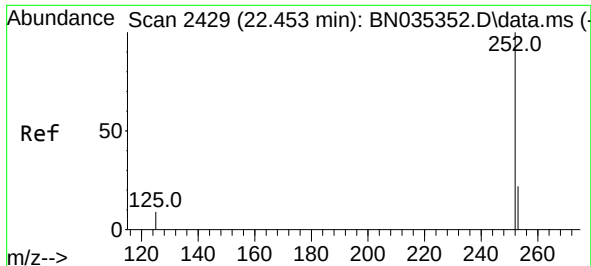
Tgt Ion:264 Resp: 10740
Ion Ratio Lower Upper
264 100
260 26.2 21.4 32.2
265 63.0 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.373 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:276 Resp: 15666
Ion Ratio Lower Upper
276 100
138 22.9 19.4 29.0
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.484 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

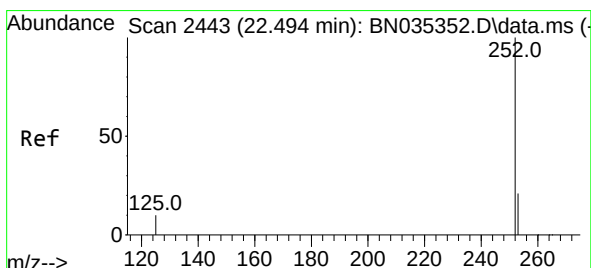
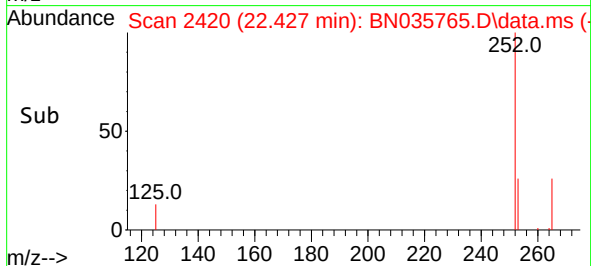
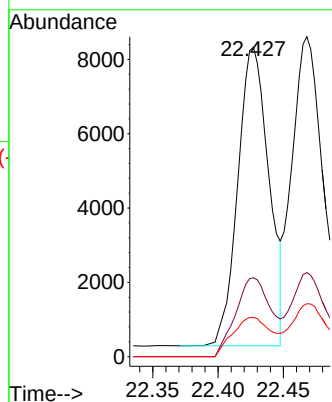
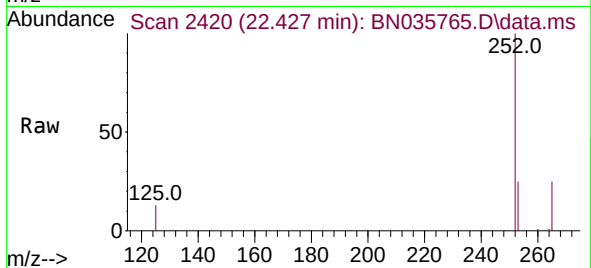
Tgt Ion:252 Resp: 19003

Ion Ratio Lower Upper

252 100

253 25.5 19.6 29.4

125 12.7 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.491 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.044 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

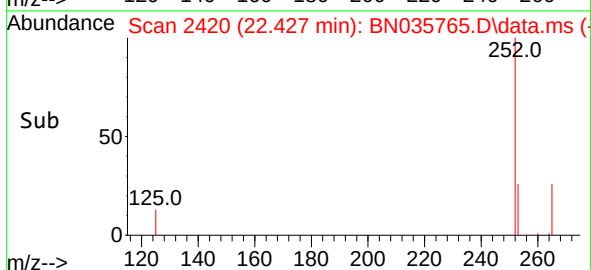
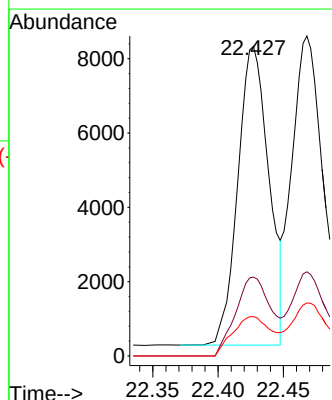
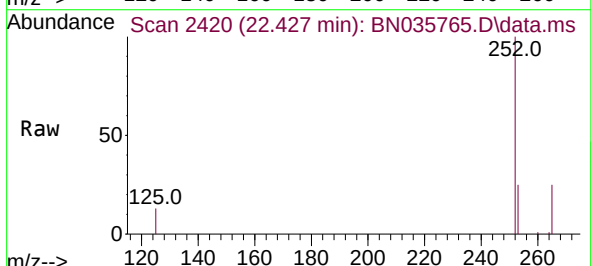
Tgt Ion:252 Resp: 19003

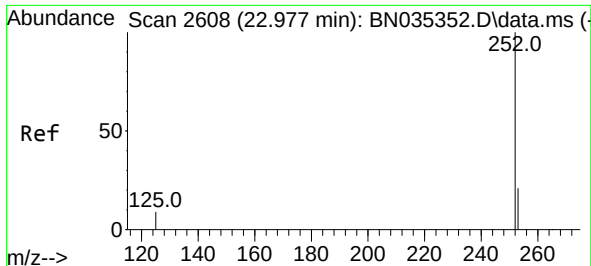
Ion Ratio Lower Upper

252 100

253 25.5 19.5 29.3

125 12.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.363 ng

RT: 22.947 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

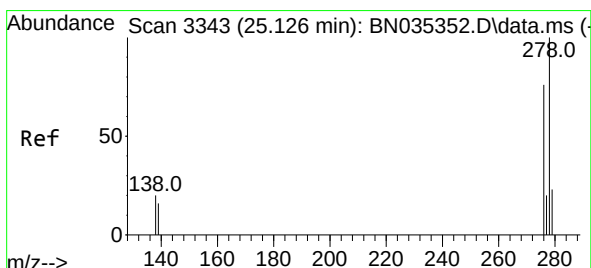
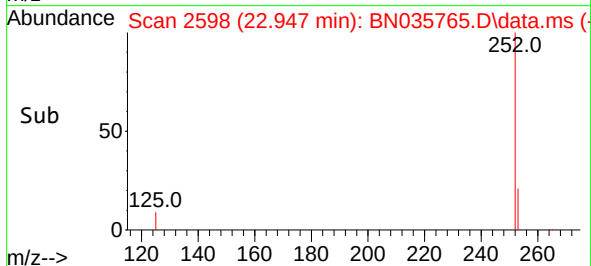
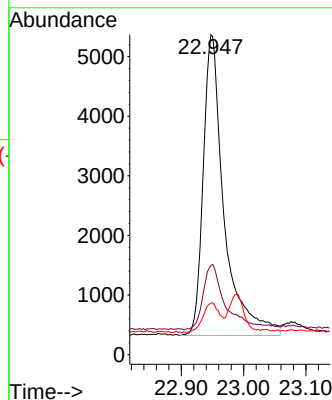
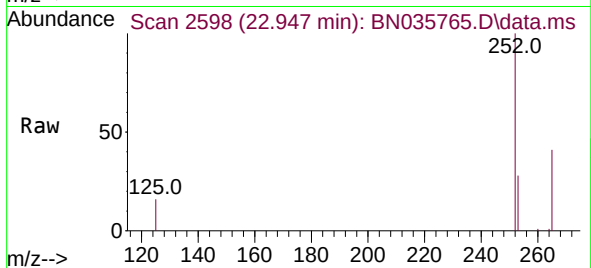
Tgt Ion:252 Resp: 11742

Ion Ratio Lower Upper

252 100

253 27.9 20.2 30.4

125 16.1 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.352 ng

RT: 25.079 min Scan# 3327

Delta R.T. -0.003 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

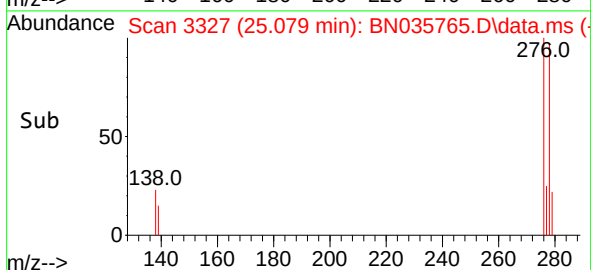
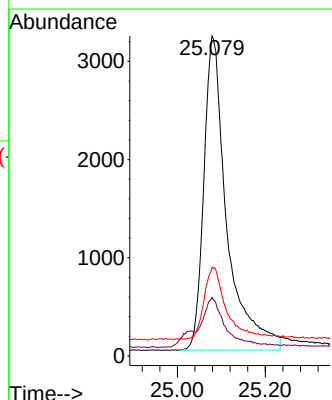
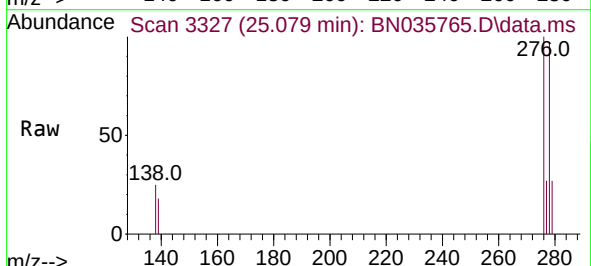
Tgt Ion:278 Resp: 11661

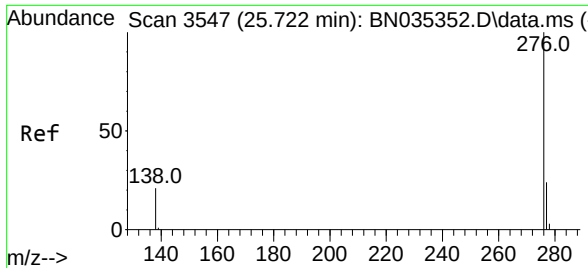
Ion Ratio Lower Upper

278 100

139 18.3 14.2 21.4

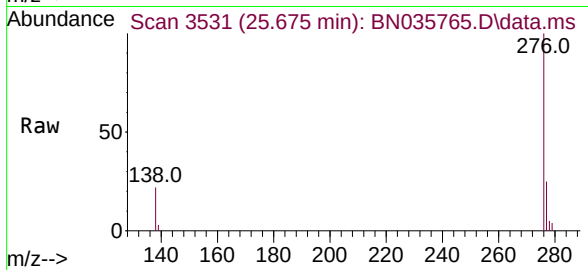
279 27.7 20.5 30.7



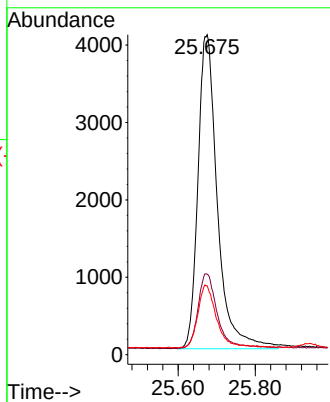
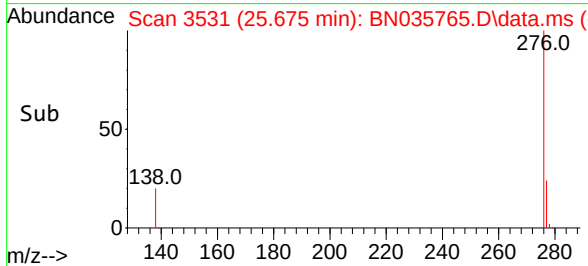


#41
Benzo(g,h,i)perylene
Concen: 0.411 ng
RT: 25.675 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:	276	Resp:	14236
Ion Ratio	Lower	Upper	
276	100		
277	25.2	19.9	29.9
138	21.5	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035776.D
 Acq On : 23 Dec 2024 10:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

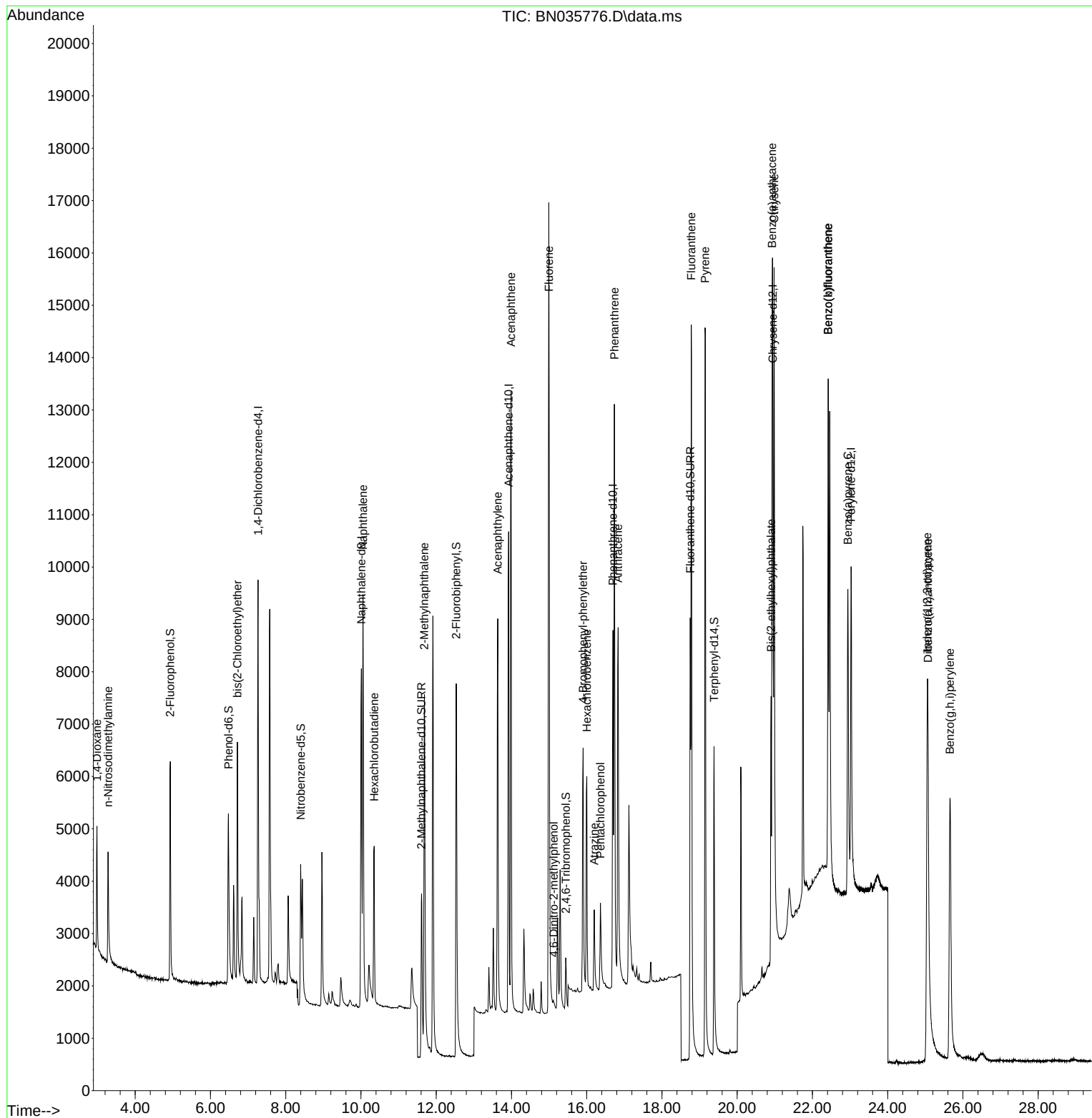
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3884	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	10099	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	5893	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8770	0.400	ng	0.00
35) Perylene-d12	23.026	264	8918	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	3917	0.403	ng	0.00
5) Phenol-d6	6.477	99	4314	0.369	ng	-0.01
8) Nitrobenzene-d5	8.397	82	3236	0.525	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6074	0.384	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	1206	0.288	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	9436	0.424	ng	-0.01
27) Fluoranthene-d10	18.752	212	11979	0.366	ng	0.00
31) Terphenyl-d14	19.384	244	8267	0.478	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.981	88	1665	0.448	ng	99
3) n-Nitrosodimethylamine	3.278	42	1278	0.413	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	3946	0.402	ng	98
9) Naphthalene	10.052	128	10927	0.410	ng	99
10) Hexachlorobutadiene	10.351	225	2685	0.437	ng	# 100
12) 2-Methylnaphthalene	11.686	142	6976	0.366	ng	98
16) Acenaphthylene	13.636	152	9517	0.385	ng	99
17) Acenaphthene	13.989	154	6826	0.415	ng	97
18) Fluorene	14.993	166	8480	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	178	0.157	ng	# 1
21) 4-Bromophenyl-phenylether	15.904	248	2687	0.398	ng	# 94
22) Hexachlorobenzene	16.003	284	3943	0.497	ng	95
23) Atrazine	16.202	200	1724	0.359	ng	95
24) Pentachlorophenol	16.363	266	1350	0.391	ng	89
25) Phenanthrene	16.735	178	12569	0.396	ng	100
26) Anthracene	16.835	178	10686	0.372	ng	99
28) Fluoranthene	18.780	202	15101	0.353	ng	99
30) Pyrene	19.147	202	15291	0.472	ng	99
32) Benzo(a)anthracene	20.929	228	10904	0.355	ng	99
33) Chrysene	20.982	228	14126	0.447	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4992	0.412	ng	99
36) Indeno(1,2,3-cd)pyrene	25.052	276	12530	0.359	ng	98
37) Benzo(b)fluoranthene	22.418	252	21074	0.646	ng	96
38) Benzo(k)fluoranthene	22.418	252	21074	0.656	ng	97
39) Benzo(a)pyrene	22.942	252	10518	0.391	ng	# 91
40) Dibenzo(a,h)anthracene	25.070	278	9258	0.337	ng	94
41) Benzo(g,h,i)perylene	25.658	276	11833	0.412	ng	99

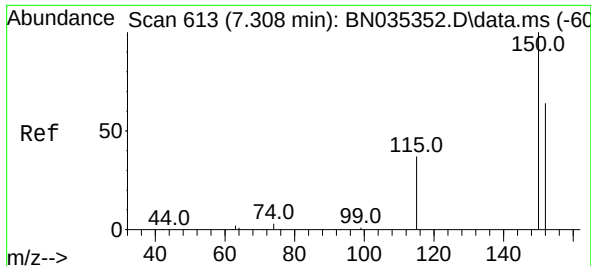
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

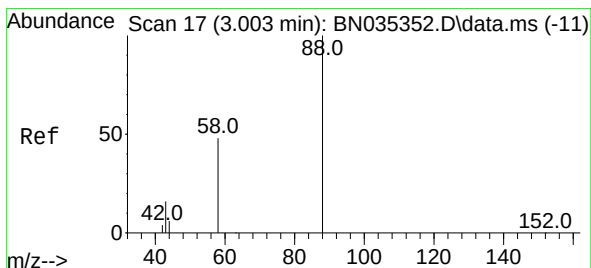
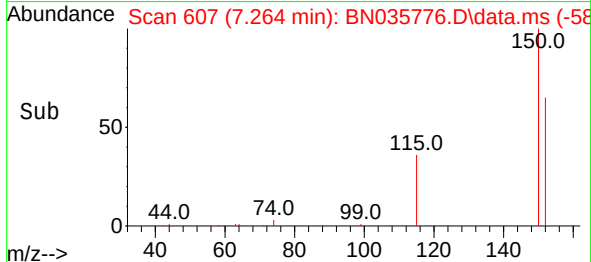
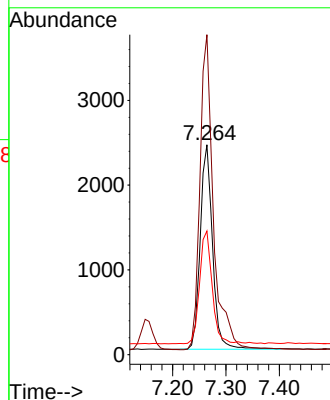
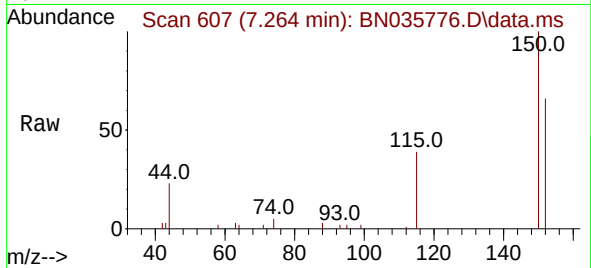




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

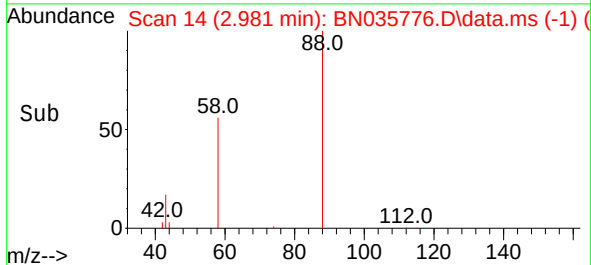
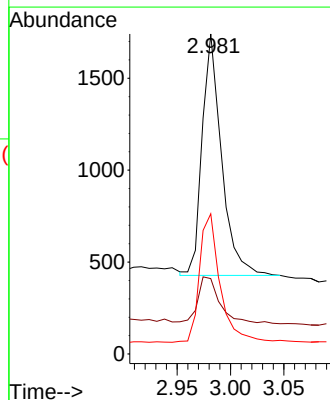
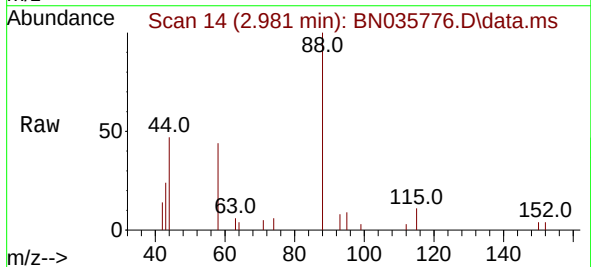
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

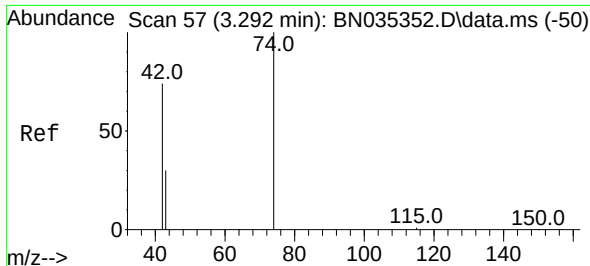
Tgt Ion:152 Resp: 3884
Ion Ratio Lower Upper
152 100
150 152.4 124.0 186.0
115 58.9 49.6 74.4



#2
1,4-Dioxane
Concen: 0.448 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 88 Resp: 1665
Ion Ratio Lower Upper
88 100
43 22.6 17.2 25.8
58 55.9 44.5 66.7

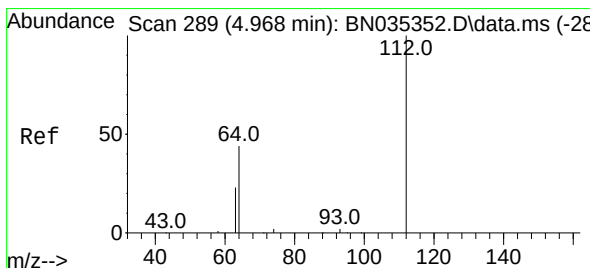
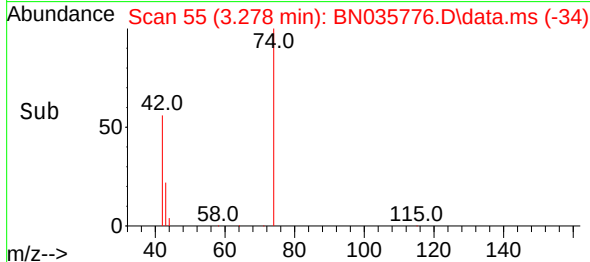
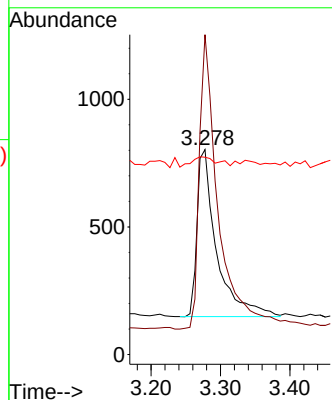
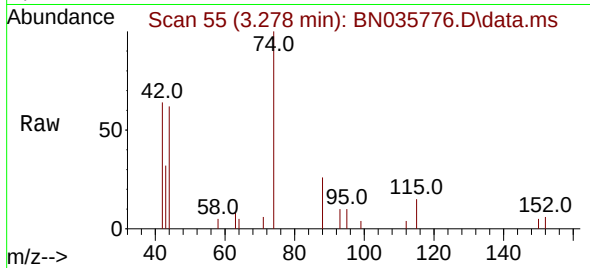




#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.278 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

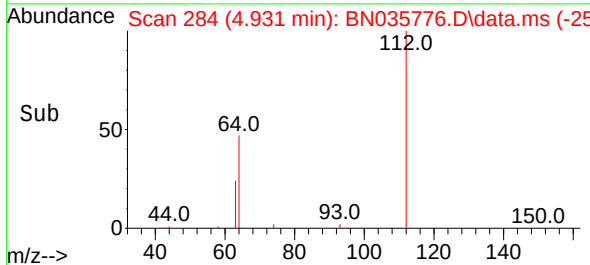
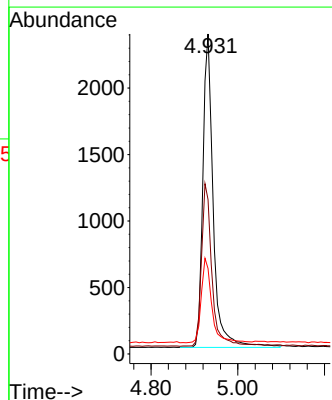
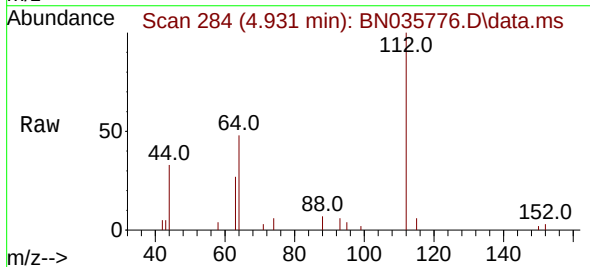
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

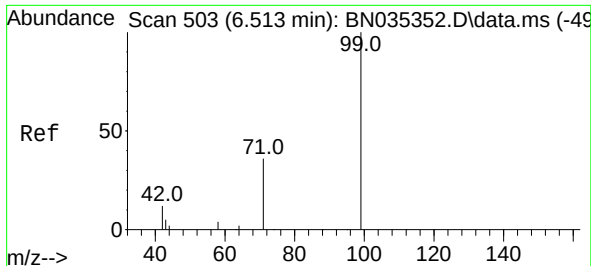
Tgt Ion: 42 Resp: 1278
Ion Ratio Lower Upper
42 100
74 172.3 124.9 187.3
44 6.3 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.403 ng
RT: 4.931 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 112 Resp: 3917
Ion Ratio Lower Upper
112 100
64 52.3 39.8 59.8
63 27.2 21.0 31.6





#5

Phenol-d6

Concen: 0.369 ng

RT: 6.477 min Scan# 498

Delta R.T. -0.015 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

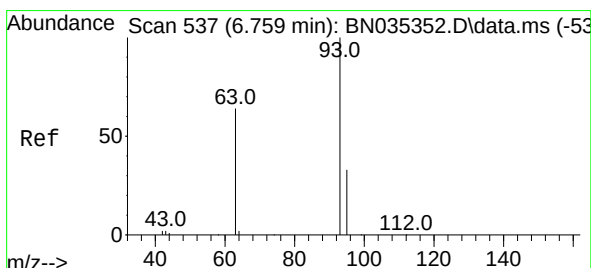
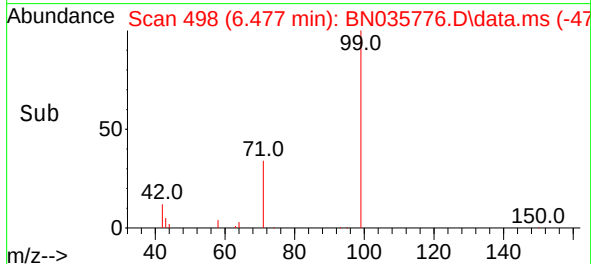
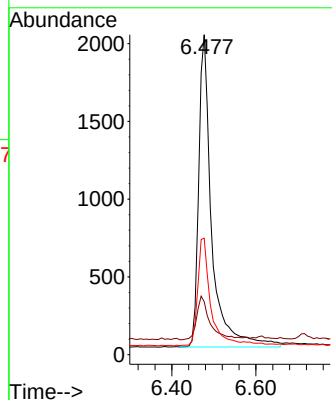
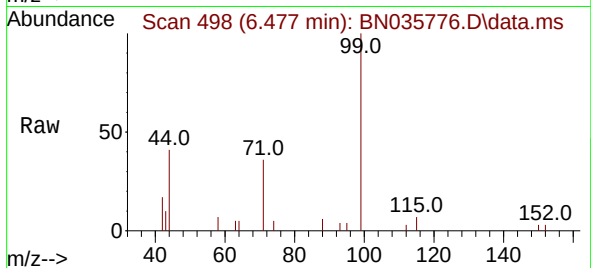
Tgt Ion: 99 Resp: 4314

Ion Ratio Lower Upper

99 100

42 14.3 11.4 17.2

71 33.7 29.3 43.9



#6

bis(2-Chloroethyl)ether

Concen: 0.402 ng

RT: 6.715 min Scan# 531

Delta R.T. -0.015 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

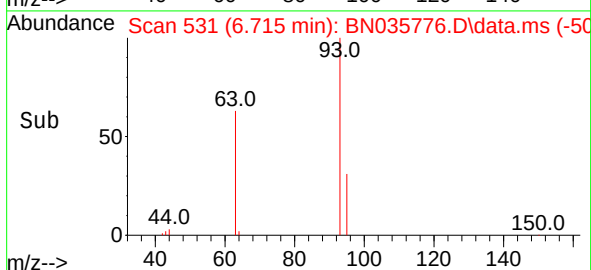
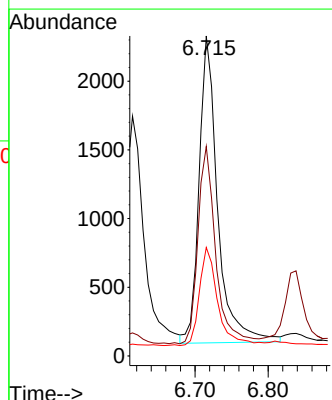
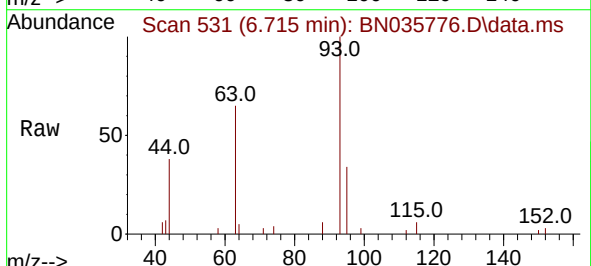
Tgt Ion: 93 Resp: 3946

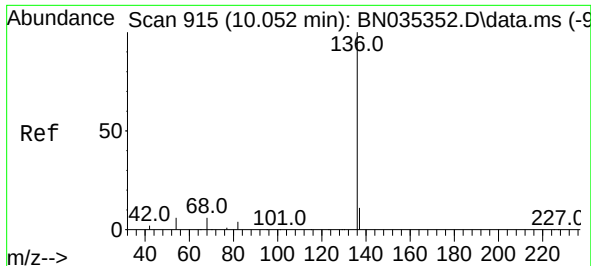
Ion Ratio Lower Upper

93 100

63 61.5 50.4 75.6

95 31.7 25.7 38.5

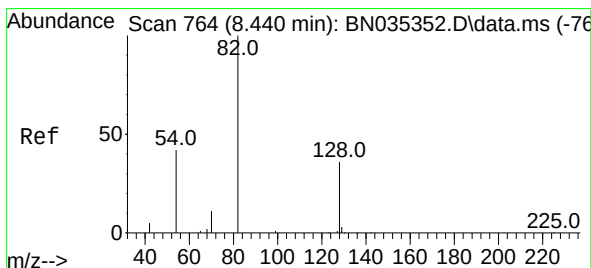
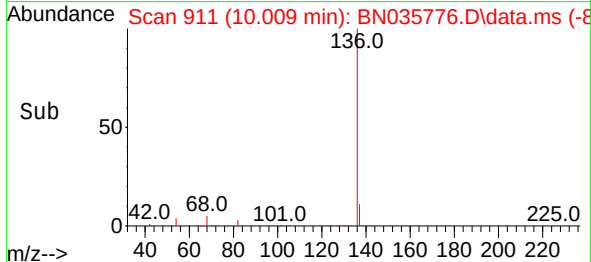
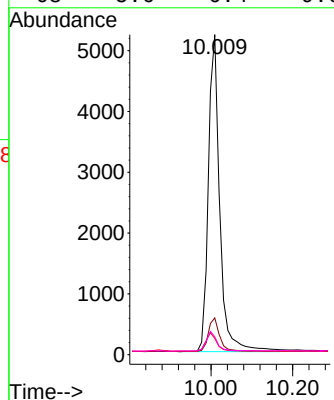
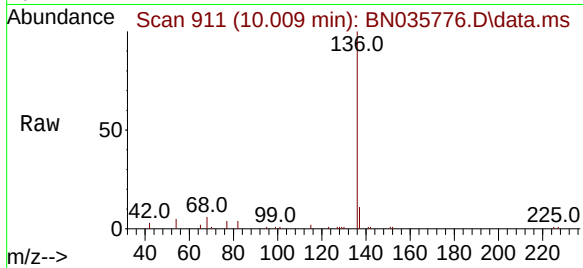




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

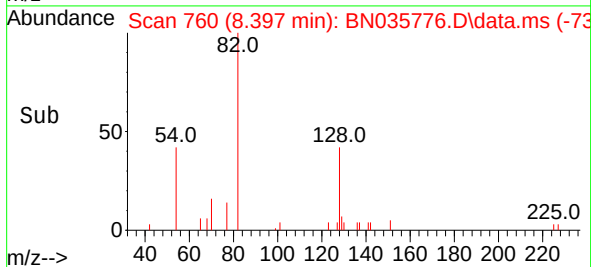
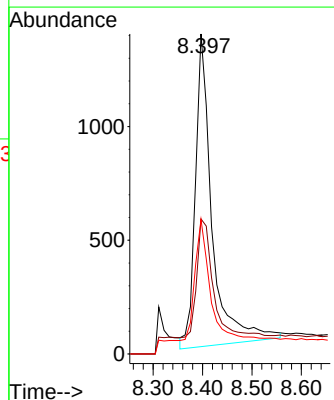
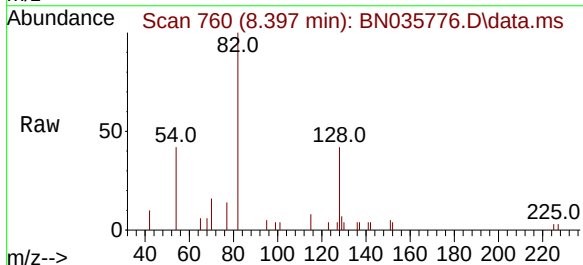
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

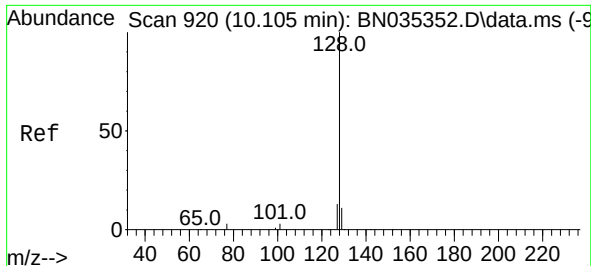
Tgt Ion:136	Resp:	10099
Ion Ratio	Lower	Upper
136	100	
137	11.5	10.2 15.2
54	5.0	6.1 9.1#
68	5.6	6.4 9.6#



#8
Nitrobenzene-d5
Concen: 0.525 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 82	Resp:	3236
Ion Ratio	Lower	Upper
82	100	
128	42.2	33.4 50.0
54	42.1	36.7 55.1

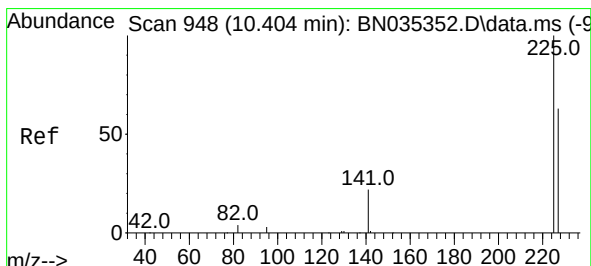
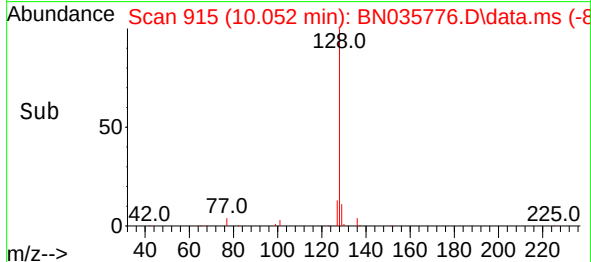
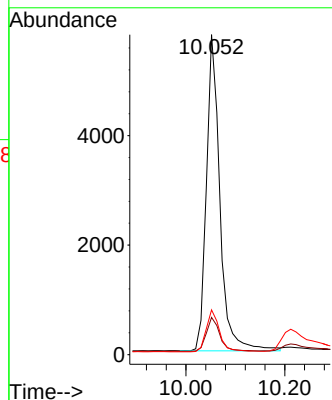
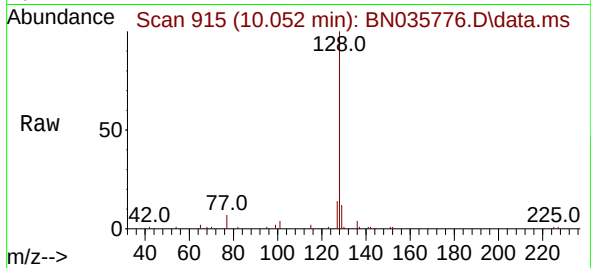




#9
Naphthalene
Concen: 0.410 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

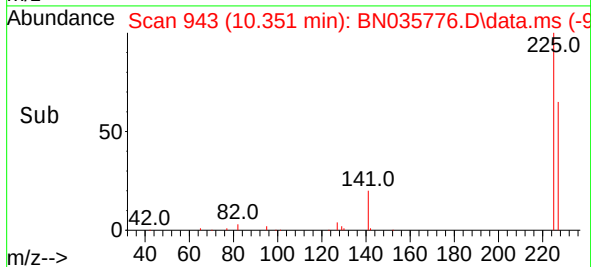
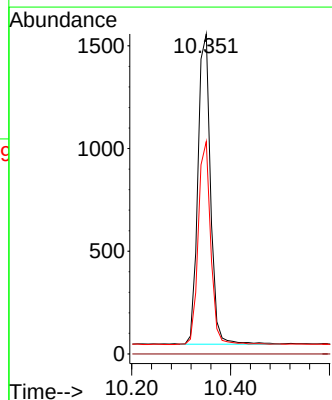
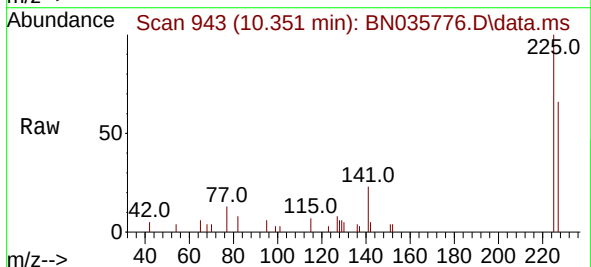
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

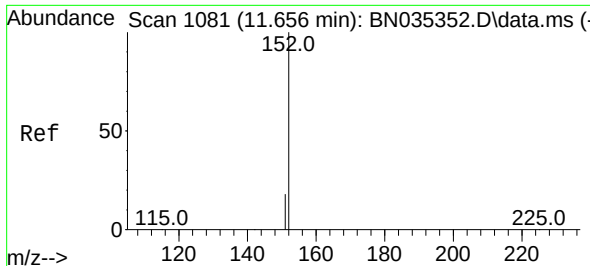
Tgt Ion:128 Resp: 10927
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 14.0 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.437 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:225 Resp: 2685
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.3 76.9

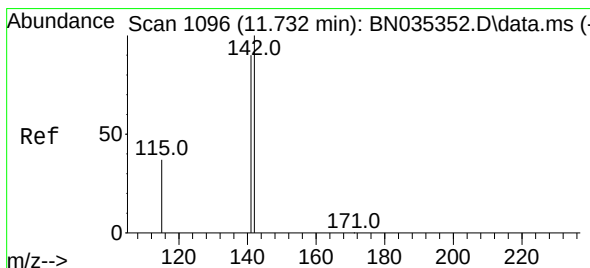
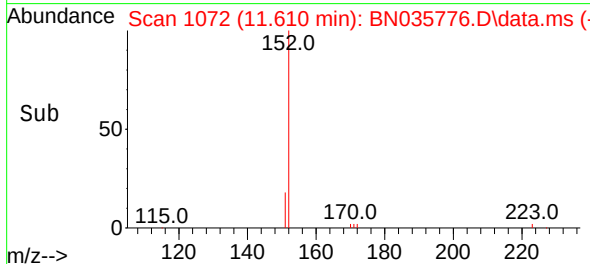
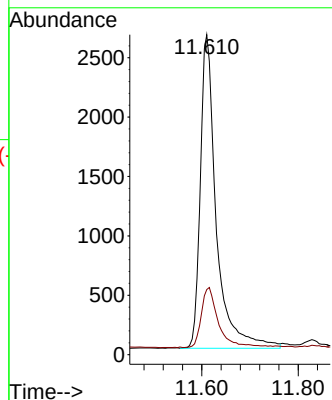
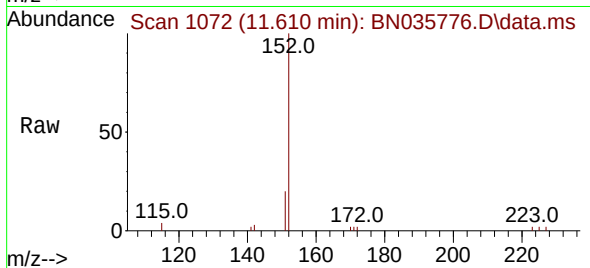




#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

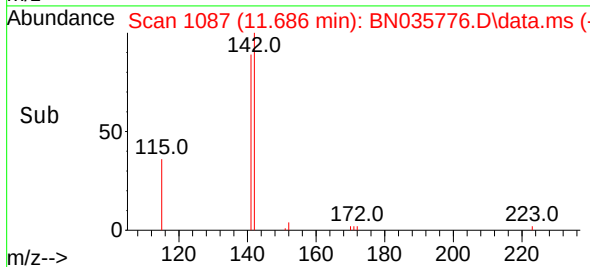
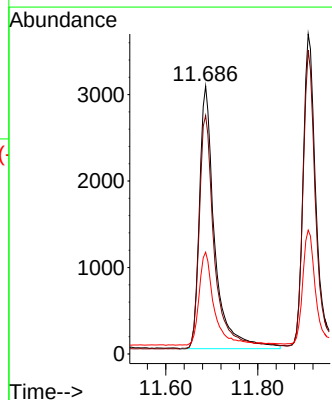
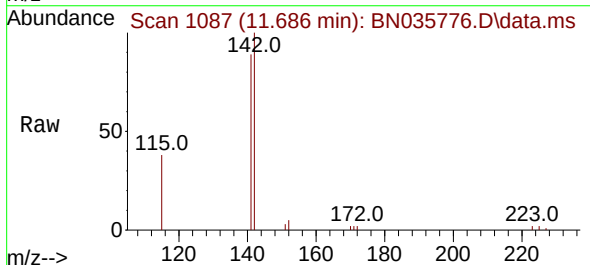
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

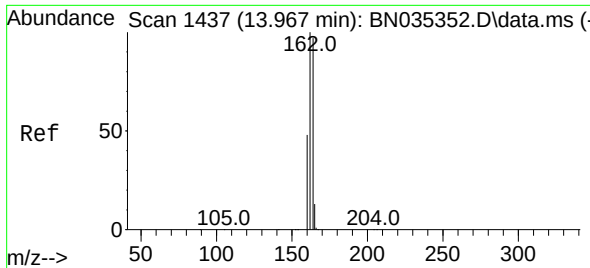
Tgt Ion:152 Resp: 6074
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:142 Resp: 6976
Ion Ratio Lower Upper
142 100
141 89.0 72.2 108.4
115 38.0 31.4 47.0

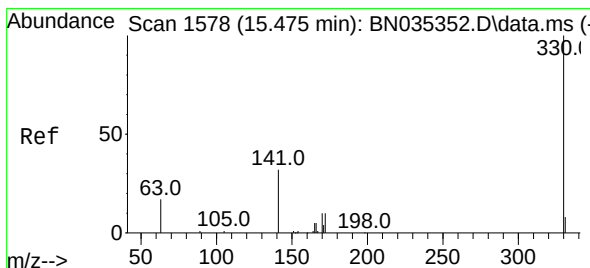
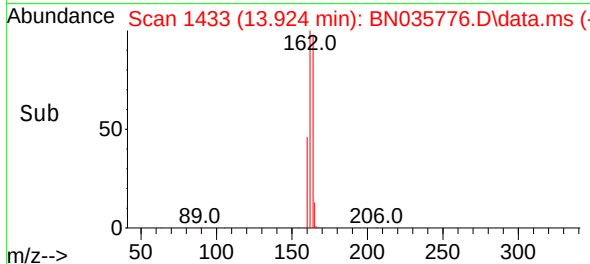
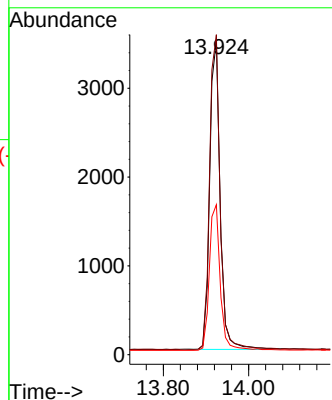
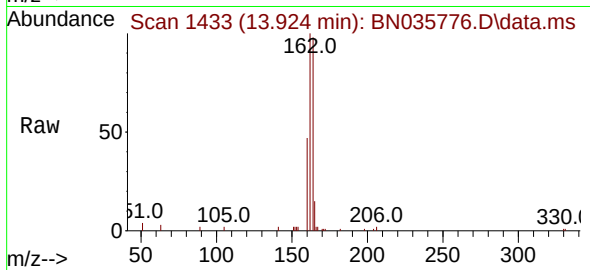




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

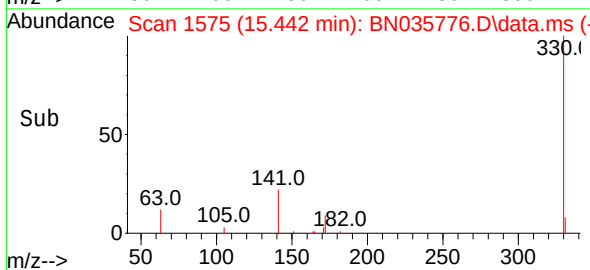
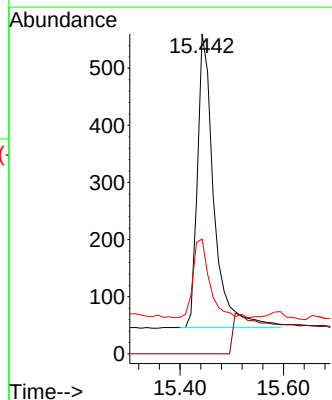
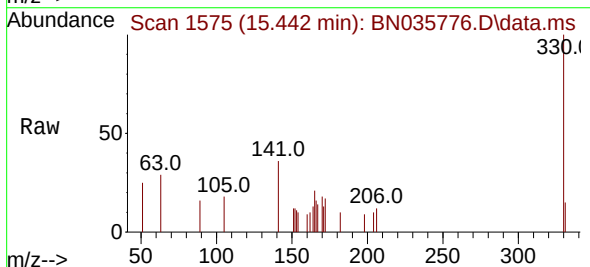
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

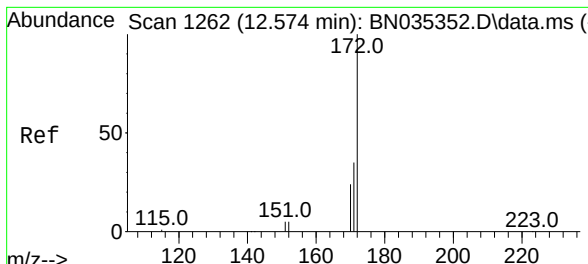
Tgt Ion:164 Resp: 5893
Ion Ratio Lower Upper
164 100
162 101.9 82.2 123.2
160 47.7 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:330 Resp: 1206
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 26.3 26.6 40.0#

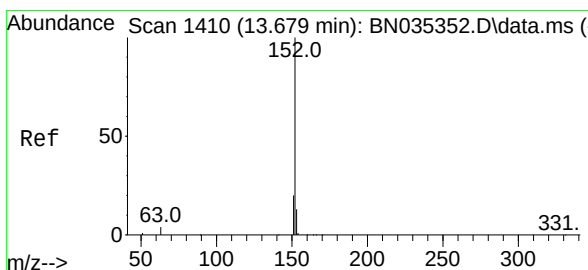
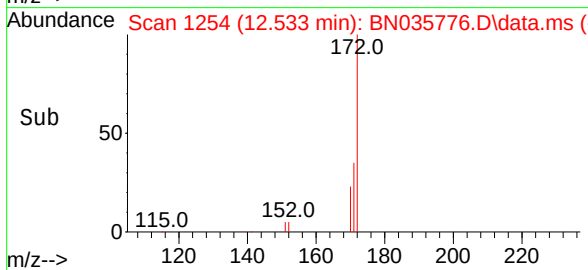
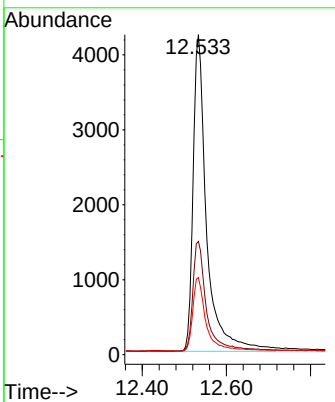
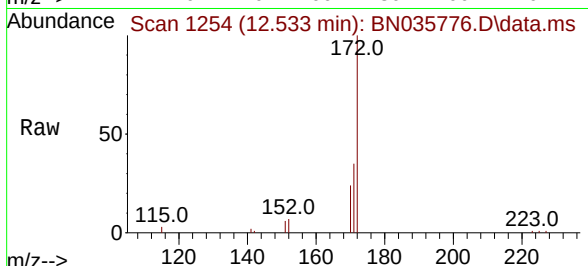




#15
 2-Fluorobiphenyl
 Concen: 0.424 ng
 RT: 12.533 min Scan# 1406
 Delta R.T. -0.010 min
 Lab File: BN035776.D
 Acq: 23 Dec 2024 10:22

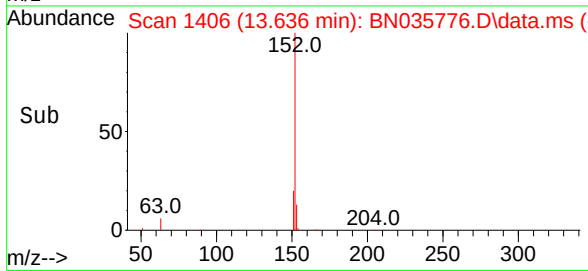
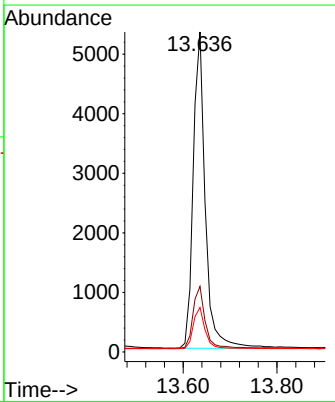
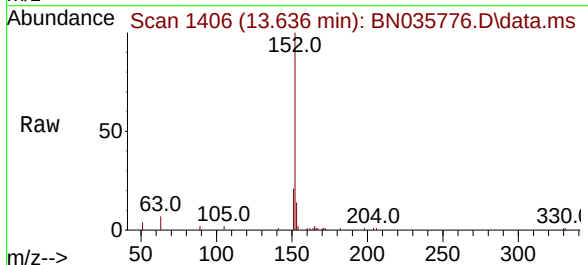
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

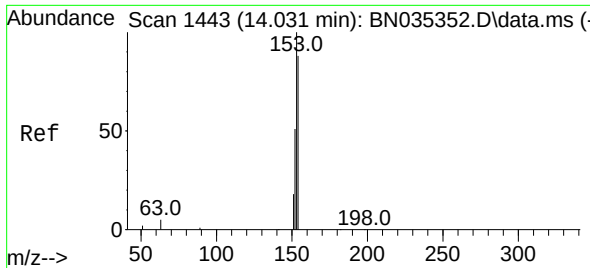
Tgt Ion:	172	Resp:	9436
Ion Ratio	Lower	Upper	
172	100		
171	35.4	29.0	43.4
170	24.1	19.8	29.8



#16
 Acenaphthylene
 Concen: 0.385 ng
 RT: 13.636 min Scan# 1406
 Delta R.T. -0.011 min
 Lab File: BN035776.D
 Acq: 23 Dec 2024 10:22

Tgt Ion:	152	Resp:	9517
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6

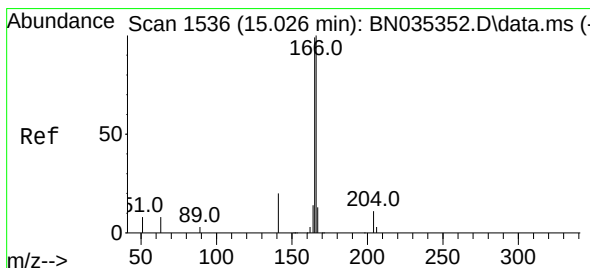
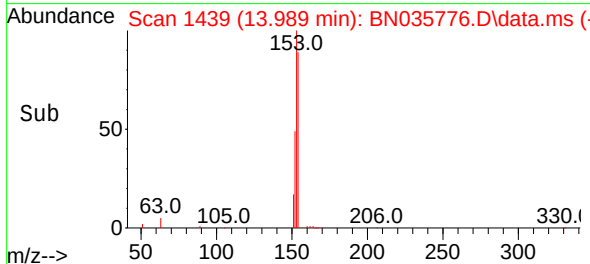
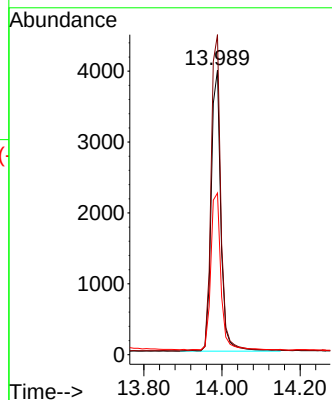
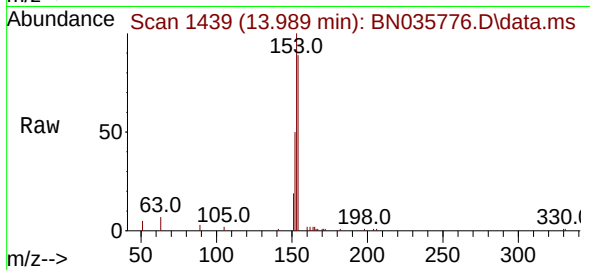




#17
Acenaphthene
Concen: 0.415 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

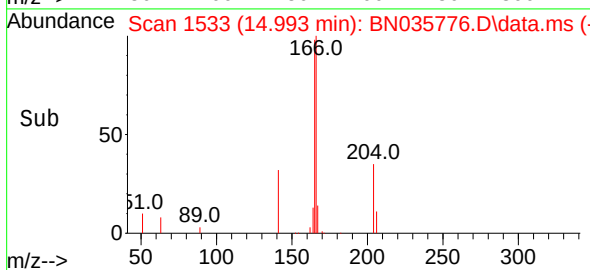
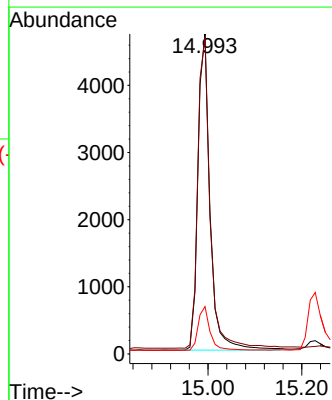
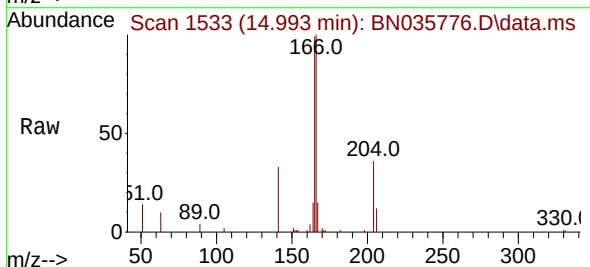
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

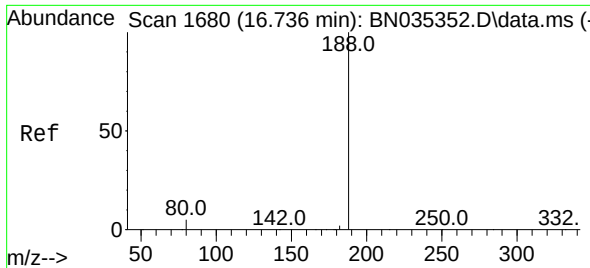
Tgt Ion:154 Resp: 6826
Ion Ratio Lower Upper
154 100
153 113.5 92.6 139.0
152 58.5 49.0 73.6



#18
Fluorene
Concen: 0.361 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:166 Resp: 8480
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 13.6 10.8 16.2

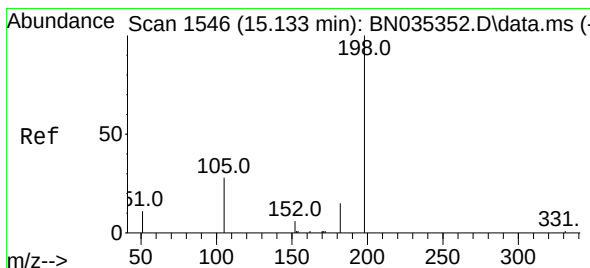
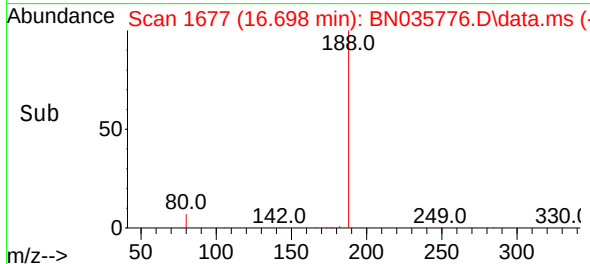
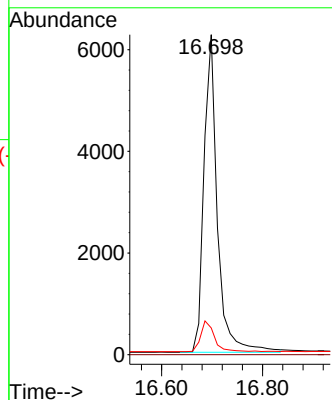
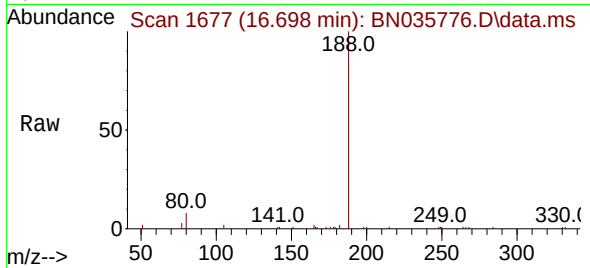




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

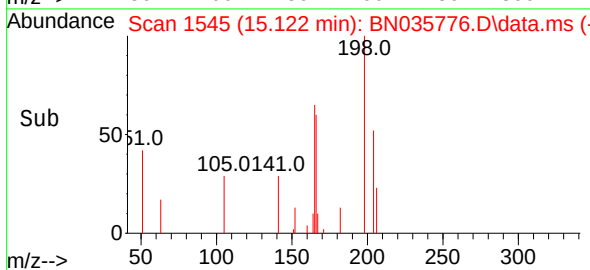
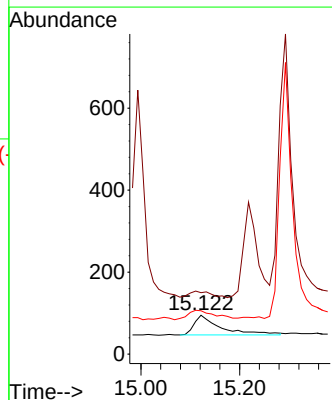
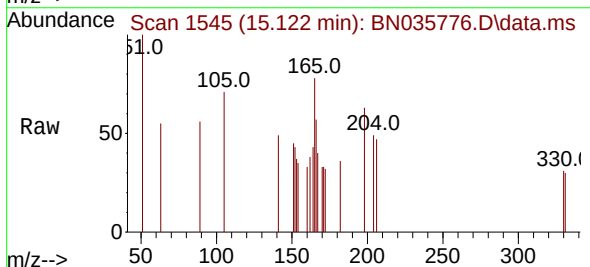
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

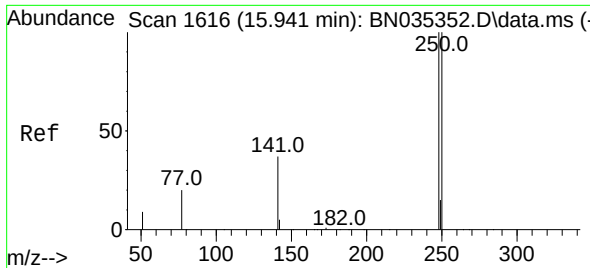
Tgt Ion:188 Resp: 11548
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.4 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.157 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:198 Resp: 178
Ion Ratio Lower Upper
198 100
51 157.9 46.5 69.7#
105 111.6 45.3 67.9#

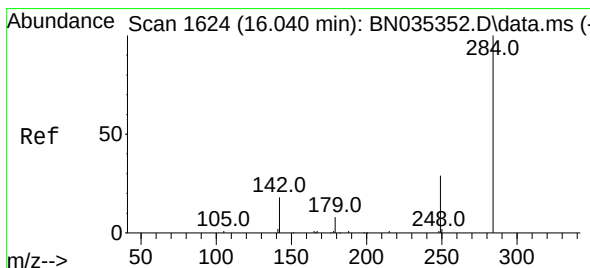
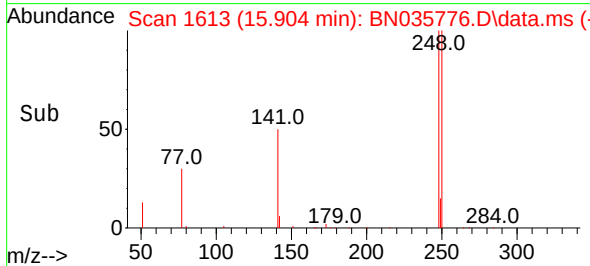
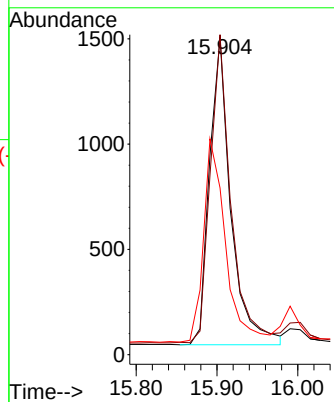
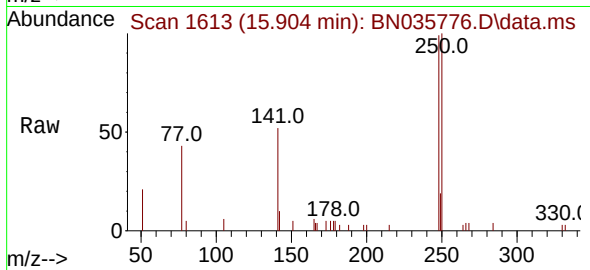




#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

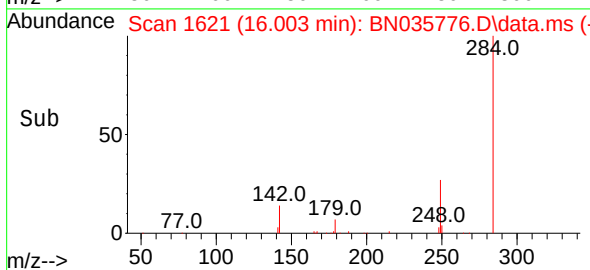
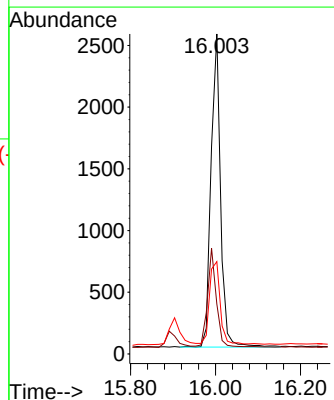
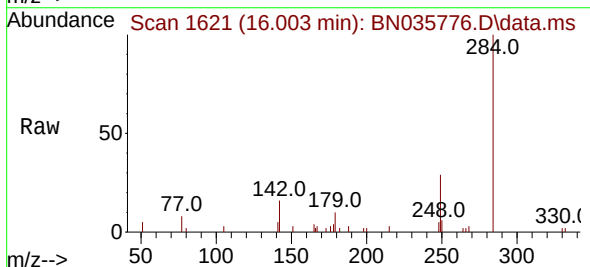
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

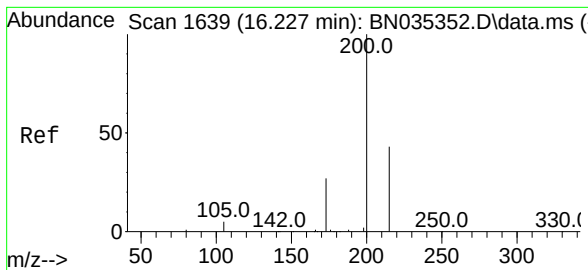
Tgt Ion:248 Resp: 2687
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 52.5 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.497 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:284 Resp: 3943
Ion Ratio Lower Upper
284 100
142 29.0 26.7 40.1
249 29.3 24.6 36.8

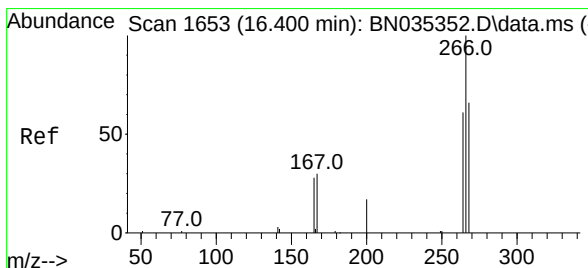
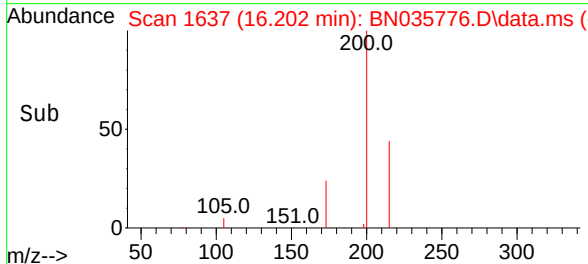
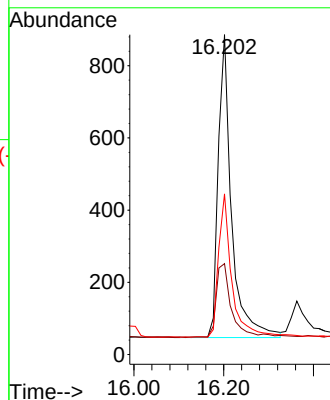
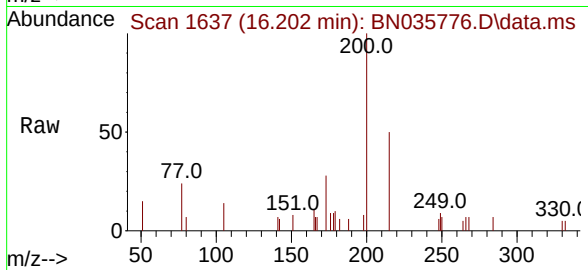




#23
Atrazine
Concen: 0.359 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

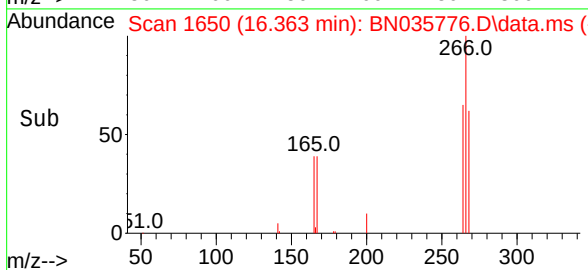
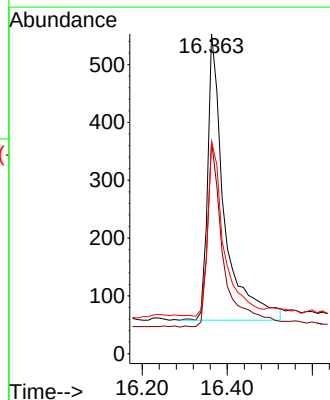
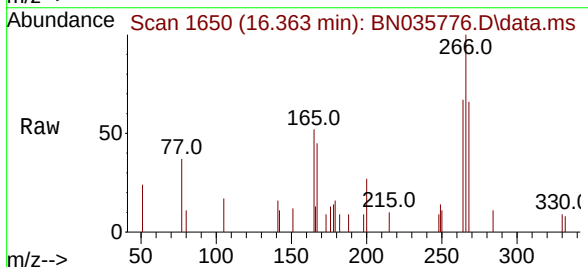
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

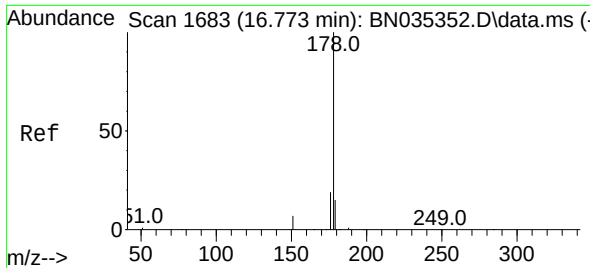
Tgt Ion:200 Resp: 1724
Ion Ratio Lower Upper
200 100
173 28.4 24.1 36.1
215 50.2 36.9 55.3



#24
Pentachlorophenol
Concen: 0.391 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:266 Resp: 1350
Ion Ratio Lower Upper
266 100
264 63.2 42.3 63.5
268 59.1 43.3 64.9

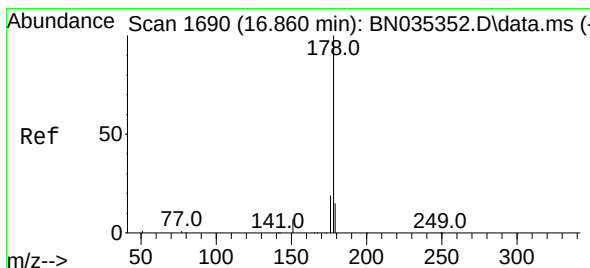
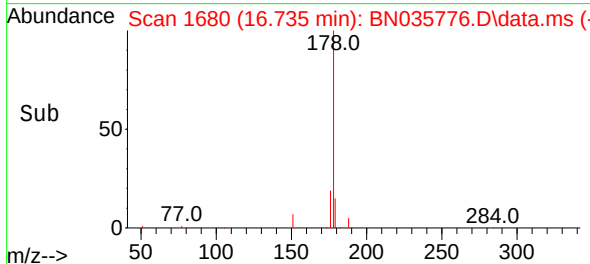
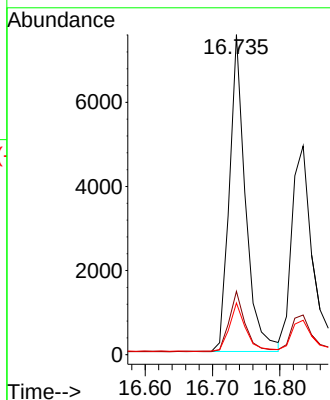
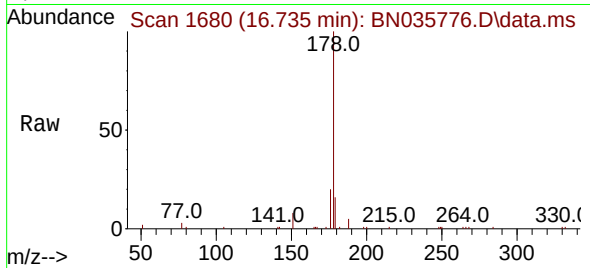




#25
Phenanthrene
Concen: 0.396 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

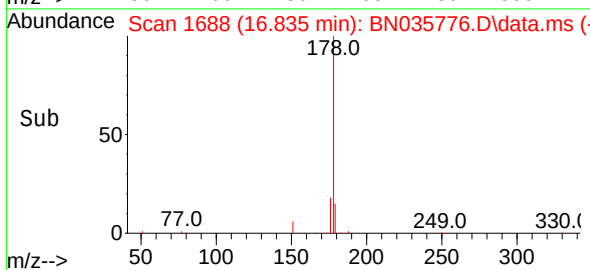
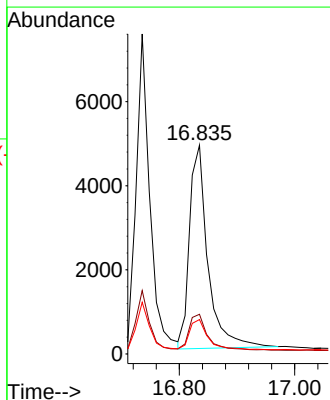
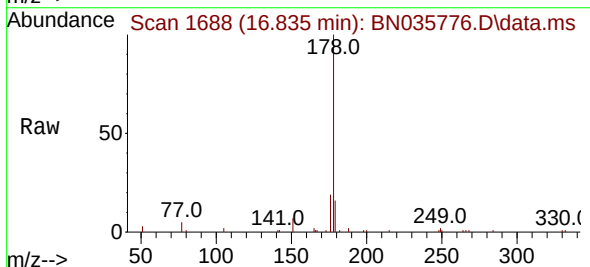
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

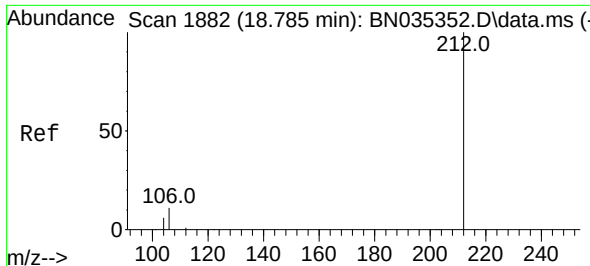
Tgt Ion:	178	Resp:	12569
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.4	23.2
179	15.5	12.3	18.5



#26
Anthracene
Concen: 0.372 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:	178	Resp:	10686
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.0	22.6
179	15.3	12.6	18.8

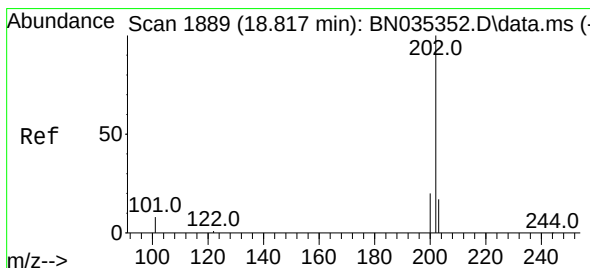
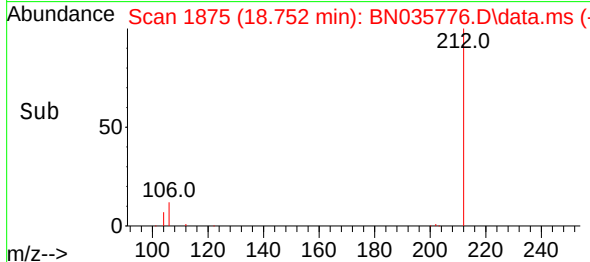
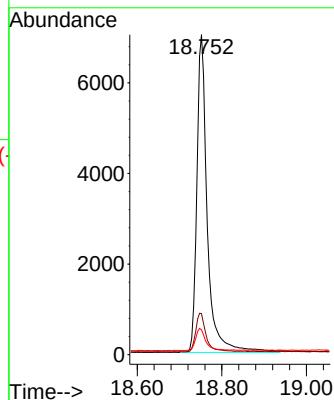
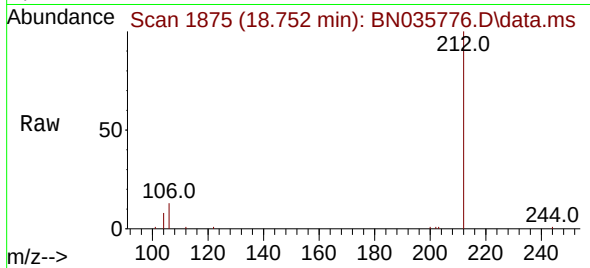




#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.752 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

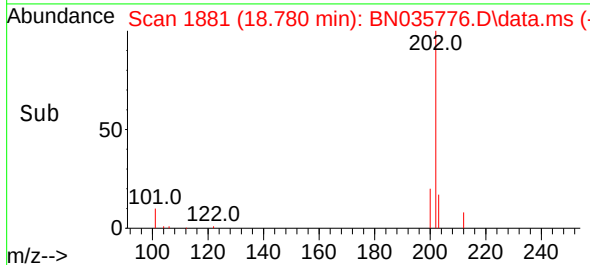
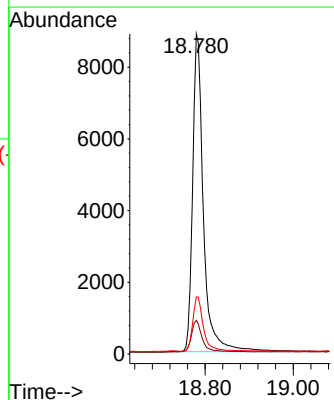
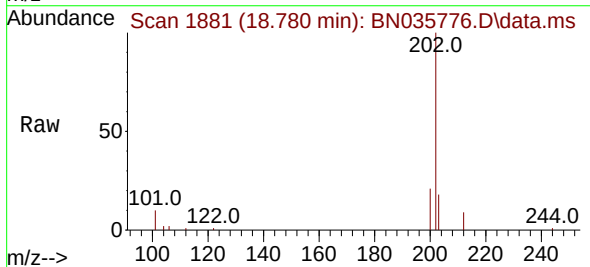
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

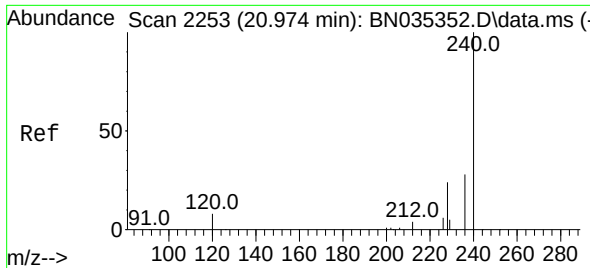
Tgt Ion:212 Resp: 11979
Ion Ratio Lower Upper
212 100
106 12.1 9.2 13.8
104 6.9 5.3 7.9



#28
Fluoranthene
Concen: 0.353 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15101
Ion Ratio Lower Upper
202 100
101 10.1 7.4 11.0
203 17.2 13.7 20.5

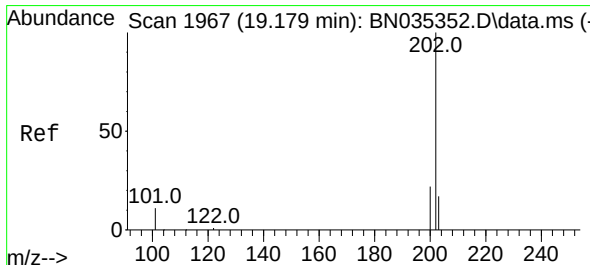
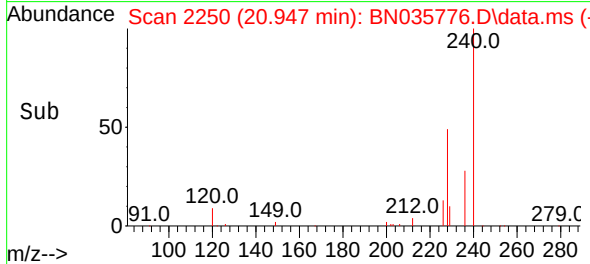
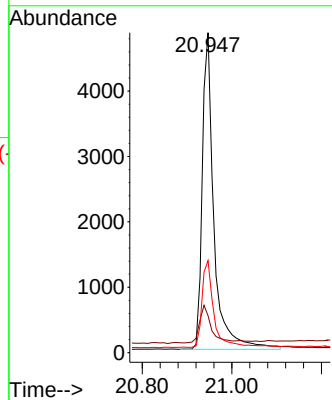
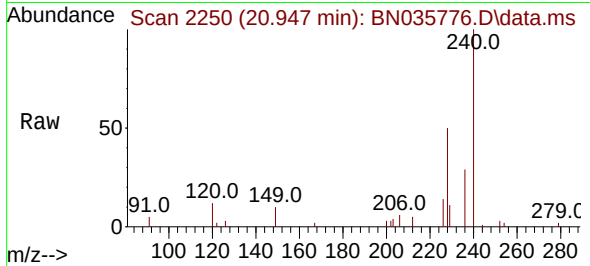




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

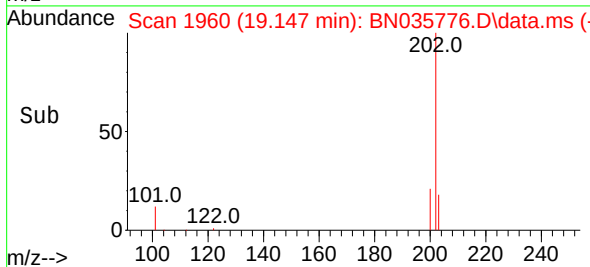
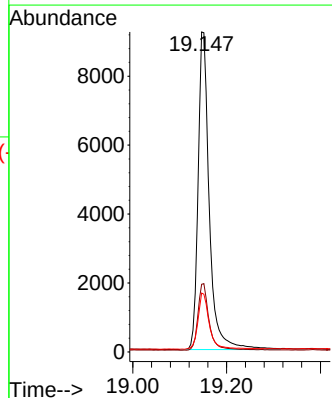
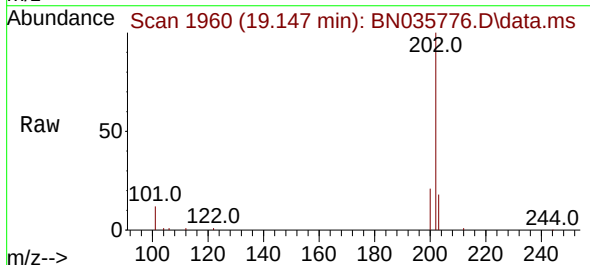
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

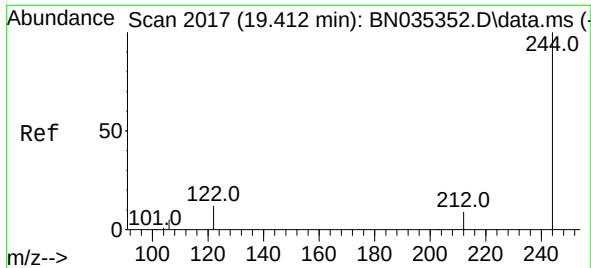
Tgt Ion:240 Resp: 8770
Ion Ratio Lower Upper
240 100
120 11.5 7.9 11.9
236 28.8 22.9 34.3



#30
Pyrene
Concen: 0.472 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15291
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.4
203 17.9 14.3 21.5

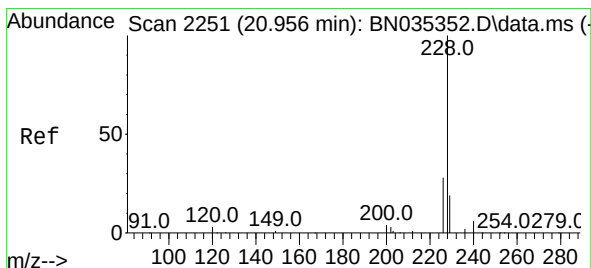
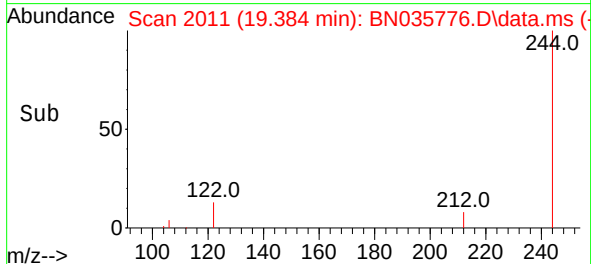
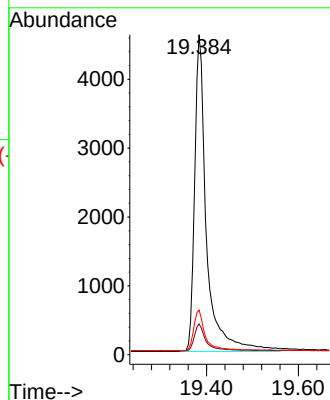
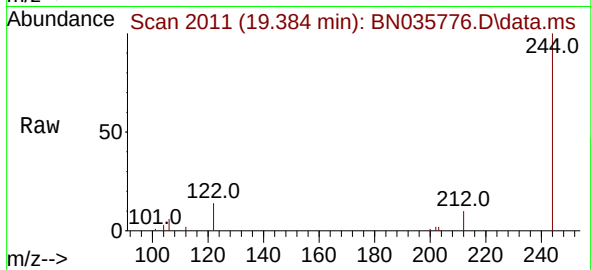




#31
Terphenyl-d14
Concen: 0.478 ng
RT: 19.384 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

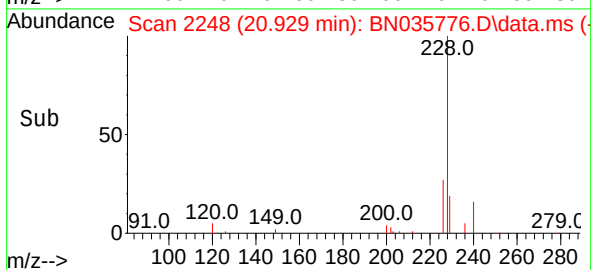
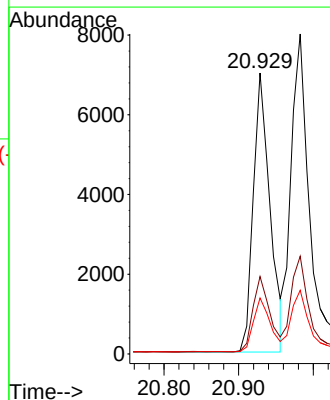
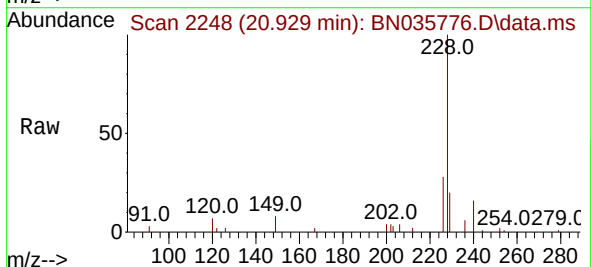
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

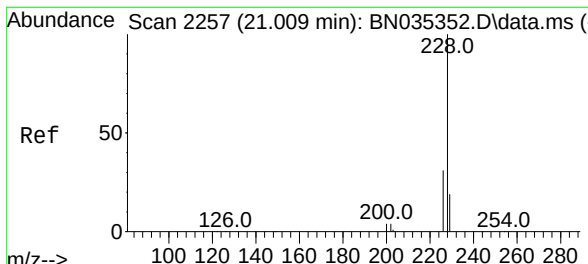
Tgt Ion:244 Resp: 8267
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 13.9 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:228 Resp: 10904
Ion Ratio Lower Upper
228 100
226 27.5 22.5 33.7
229 19.9 15.8 23.8

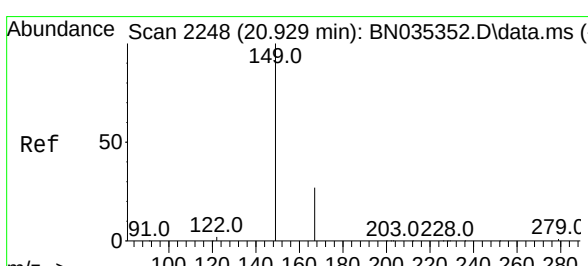
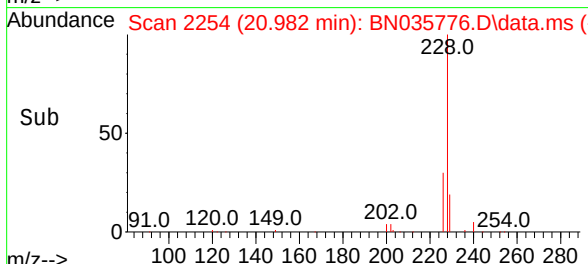
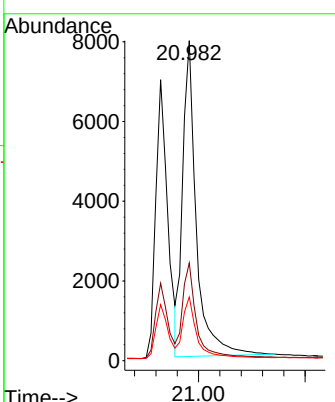
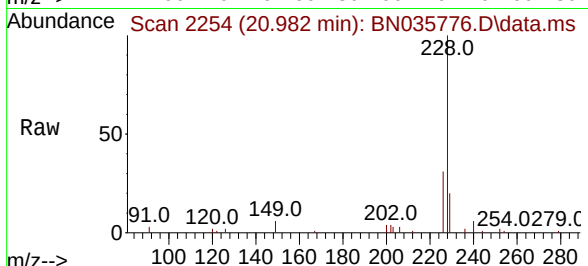




#33
Chrysene
Concen: 0.447 ng
RT: 20.982 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

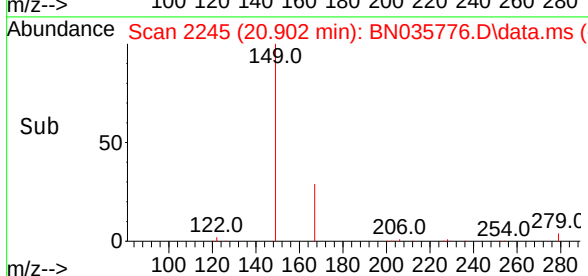
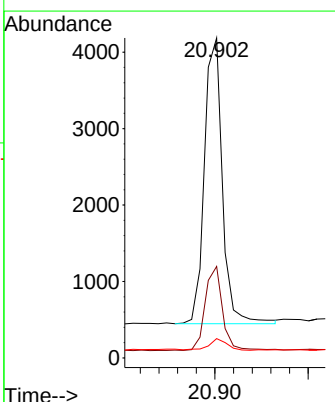
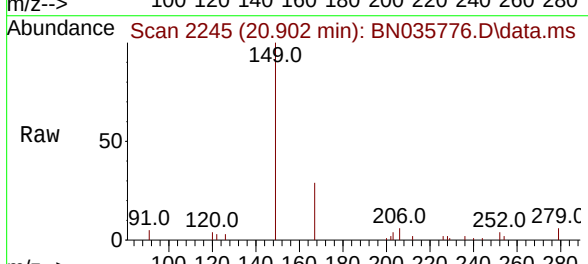
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

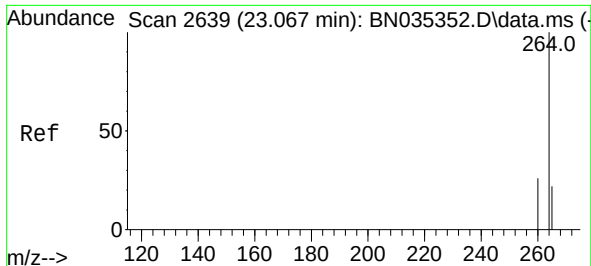
Tgt Ion:	228	Resp:	14126
Ion Ratio	Lower	Upper	
228	100		
226	30.5	24.6	37.0
229	19.9	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.412 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

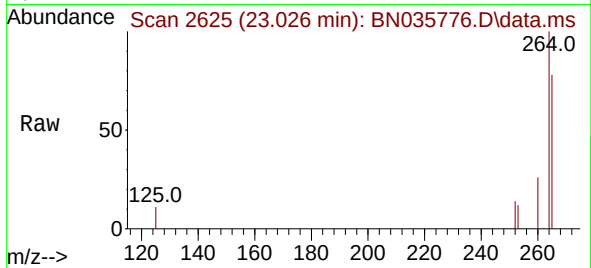
Tgt Ion:	149	Resp:	4992
Ion Ratio	Lower	Upper	
149	100		
167	28.2	22.2	33.4
279	4.0	2.7	4.1



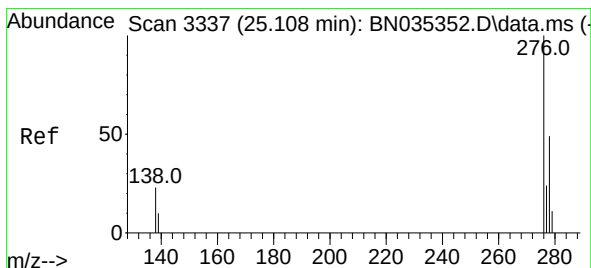
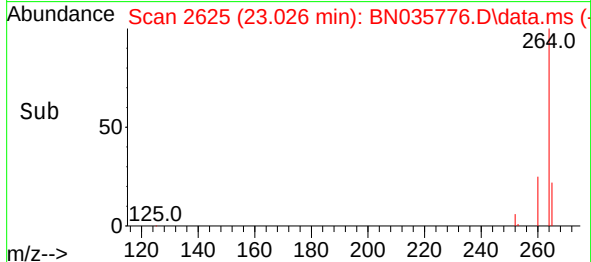
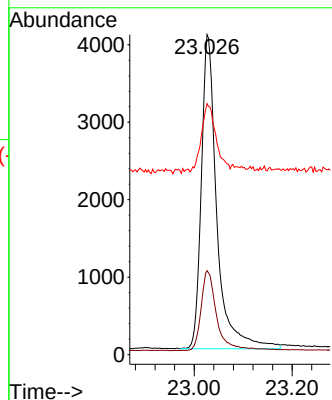


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 20
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

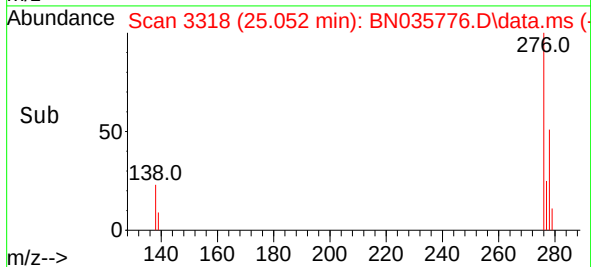
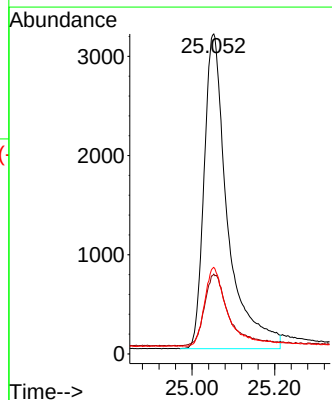
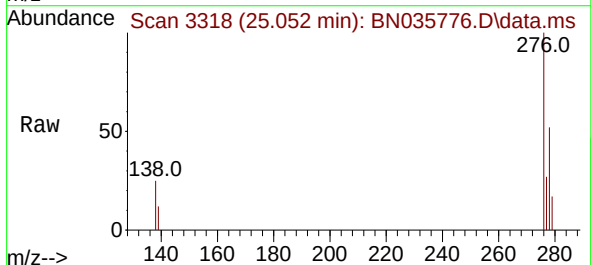


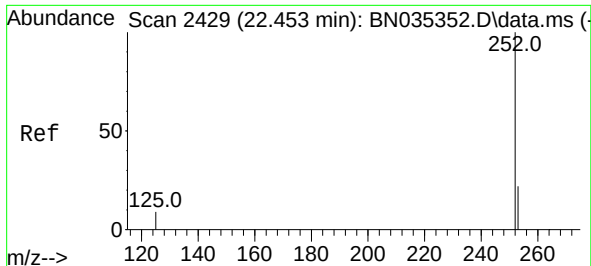
Tgt Ion:264 Resp: 8918
Ion Ratio Lower Upper
264 100
260 26.3 21.4 32.2
265 78.5 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.359 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

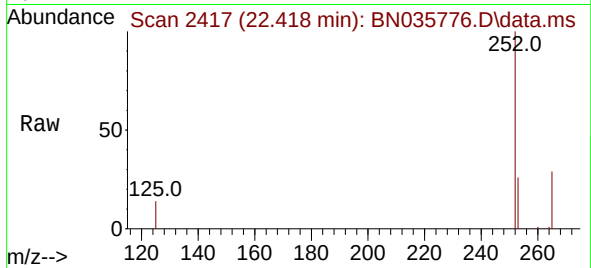
Tgt Ion:276 Resp: 12530
Ion Ratio Lower Upper
276 100
138 23.2 19.4 29.0
277 24.2 19.8 29.6



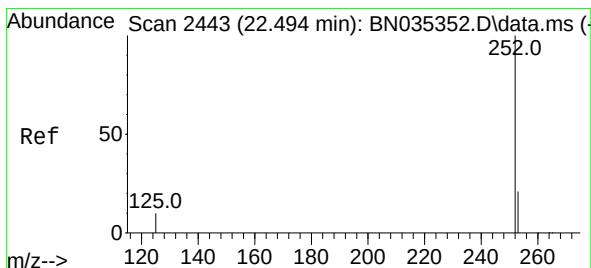
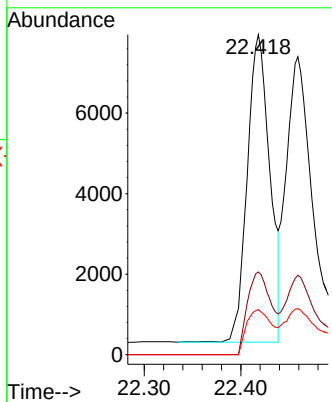
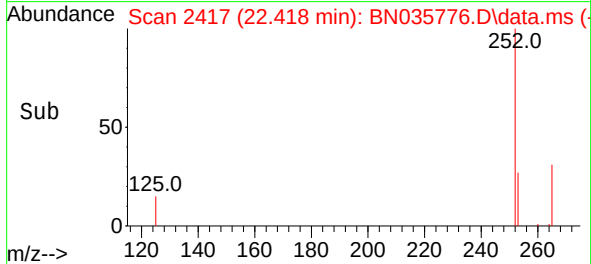


#37
Benzo(b)fluoranthene
Concen: 0.646 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

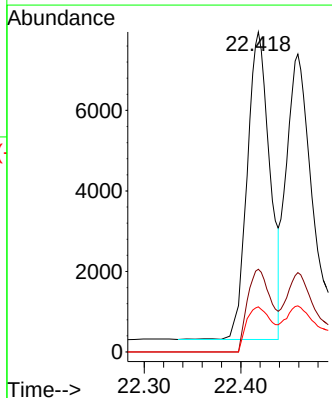
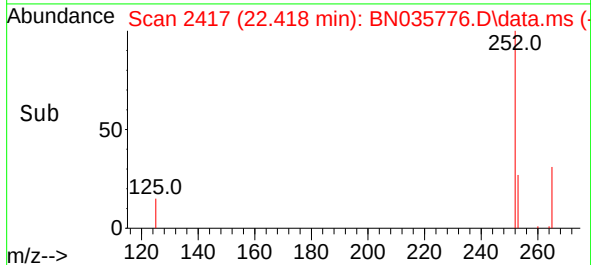
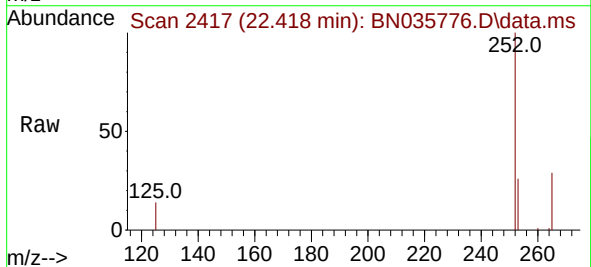


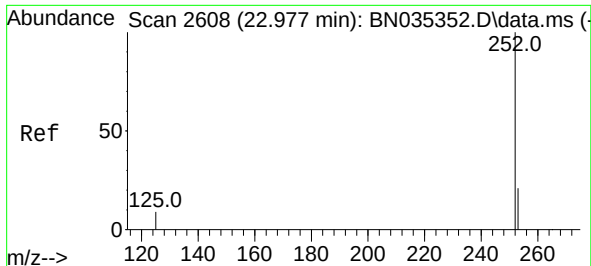
Tgt Ion:252 Resp: 21074
Ion Ratio Lower Upper
252 100
253 25.9 19.6 29.4
125 14.1 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.656 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:252 Resp: 21074
Ion Ratio Lower Upper
252 100
253 25.9 19.5 29.3
125 14.1 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 22.942 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035776.D

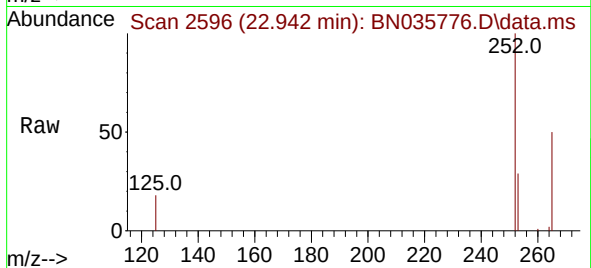
Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



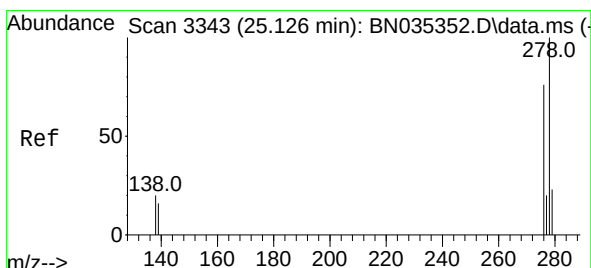
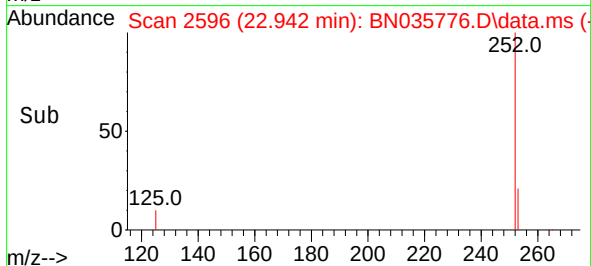
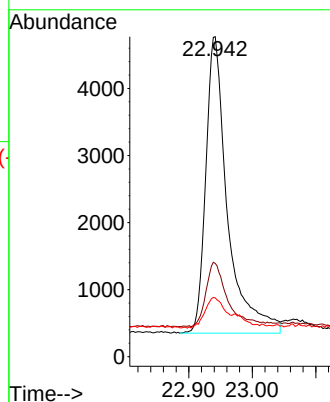
Tgt Ion:252 Resp: 10518

Ion Ratio Lower Upper

252 100

253 29.2 20.2 30.4

125 18.4 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.337 ng

RT: 25.070 min Scan# 3324

Delta R.T. -0.012 min

Lab File: BN035776.D

Acq: 23 Dec 2024 10:22

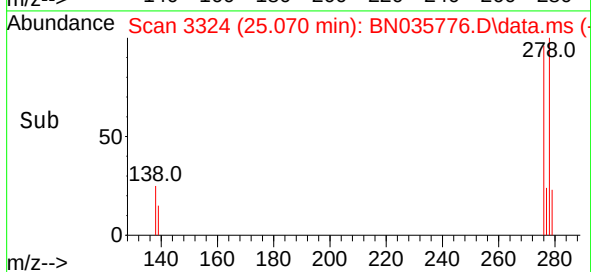
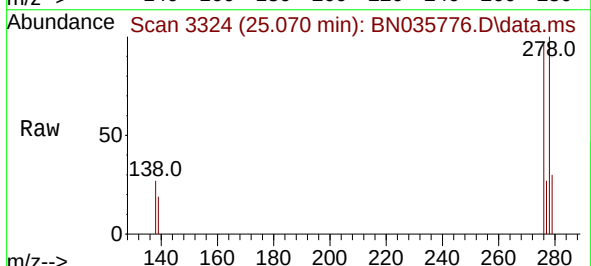
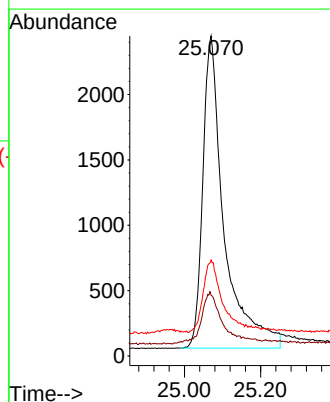
Tgt Ion:278 Resp: 9258

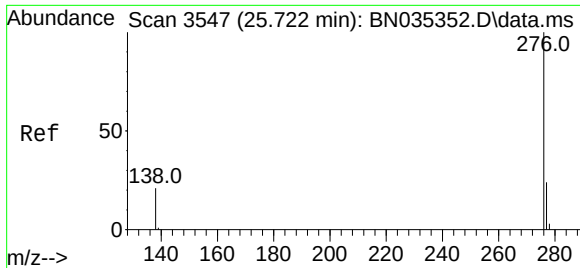
Ion Ratio Lower Upper

278 100

139 19.0 14.2 21.4

279 30.0 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.021 min

Lab File: BN035776.D

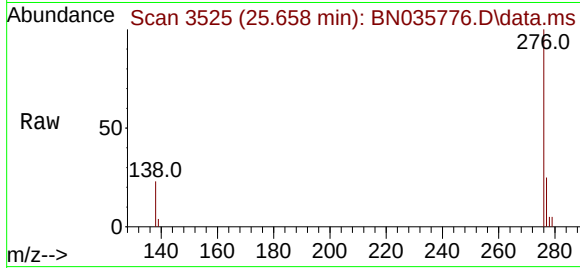
Acq: 23 Dec 2024 10:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



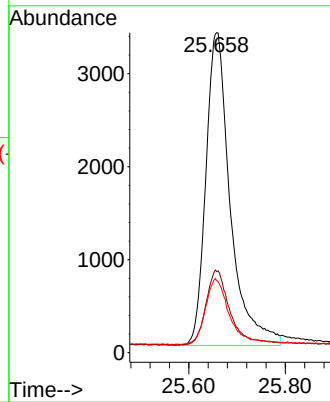
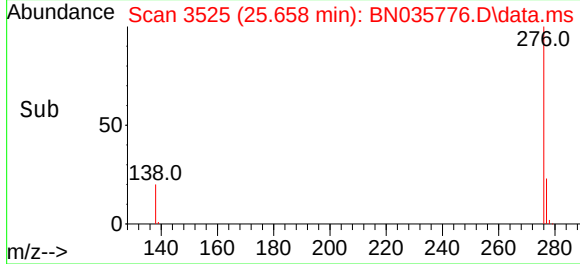
Tgt Ion:276 Resp: 11833

Ion Ratio Lower Upper

276 100

277 25.3 19.9 29.9

138 22.6 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035785.D
 Acq On : 23 Dec 2024 15:41
 Operator : RC/JU
 Sample : P5314-02
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-190A-GW-678-680

Quant Time: Dec 23 16:19:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

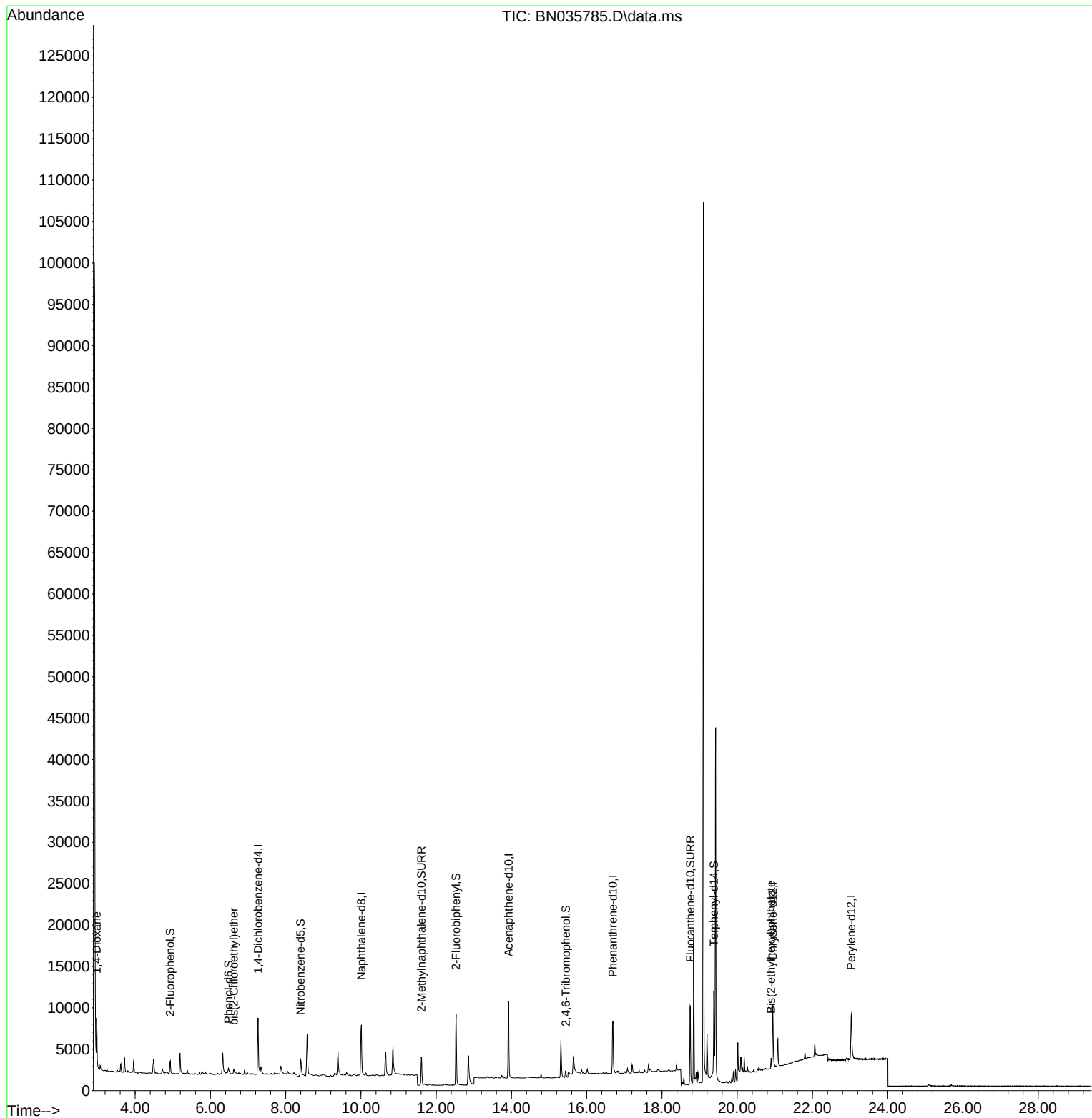
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3452	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8948	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	5551	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10343	0.400	ng	0.00
29) Chrysene-d12	20.947	240	8364	0.400	ng	0.00
35) Perylene-d12	23.032	264	8390	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	1274	0.147	ng	0.00
5) Phenol-d6	6.477	99	870	0.084	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2527	0.462	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5390	0.385	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	819	0.208	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	8168	0.389	ng	-0.02
27) Fluoranthene-d10	18.752	212	11895	0.406	ng	0.00
31) Terphenyl-d14	19.379	244	9273	0.562	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.974	88	3613	1.095	ng	99
6) bis(2-Chloroethyl)ether	6.622	93	1088	0.125	ng	# 31
34) Bis(2-ethylhexyl)phtha...	20.902	149	1156	0.100	ng	# 99

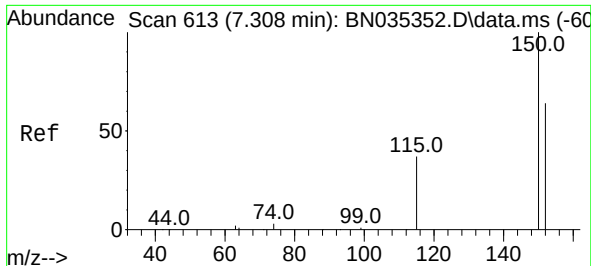
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035785.D
Acq On : 23 Dec 2024 15:41
Operator : RC/JU
Sample : P5314-02
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

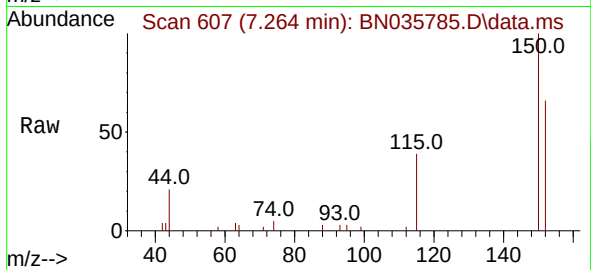
Quant Time: Dec 23 16:19:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



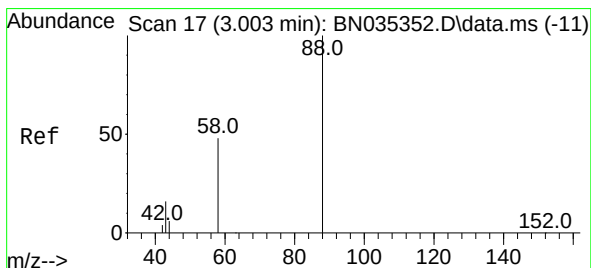
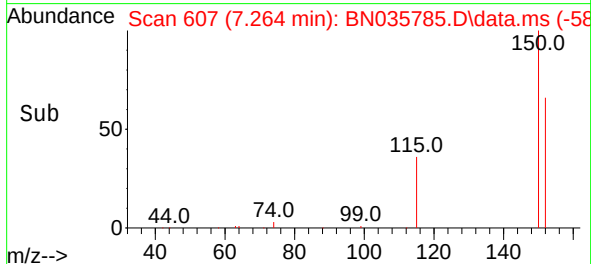
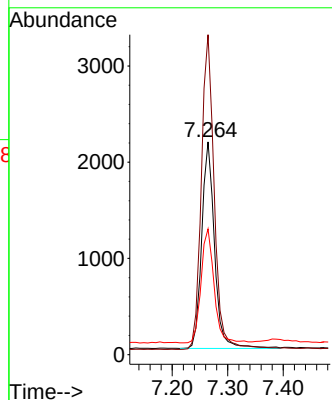


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

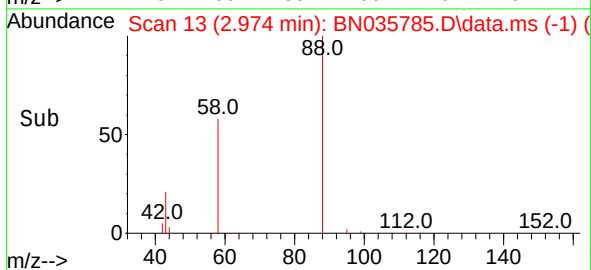
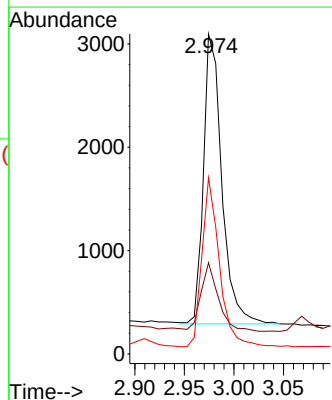
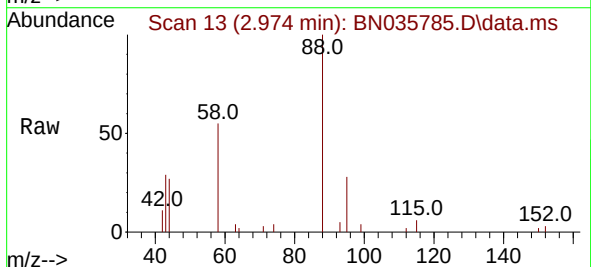


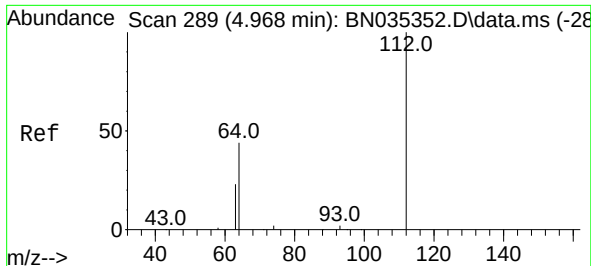
Tgt Ion:152 Resp: 3452
Ion Ratio Lower Upper
152 100
150 150.4 124.0 186.0
115 59.1 49.6 74.4



#2
1,4-Dioxane
Concen: 1.095 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 88 Resp: 3613
Ion Ratio Lower Upper
88 100
43 22.7 17.2 25.8
58 55.4 44.5 66.7

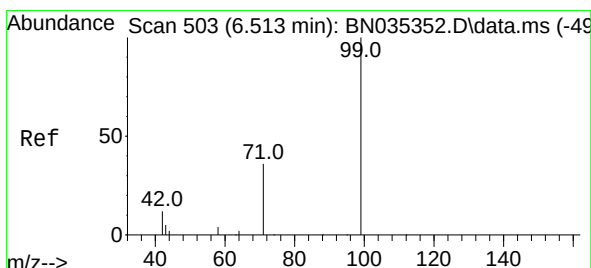
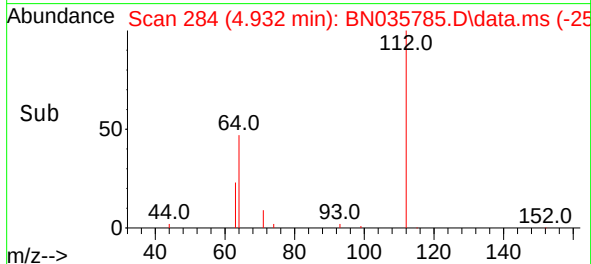
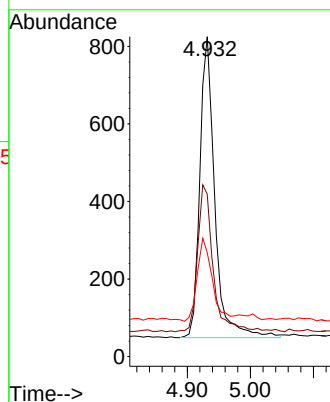
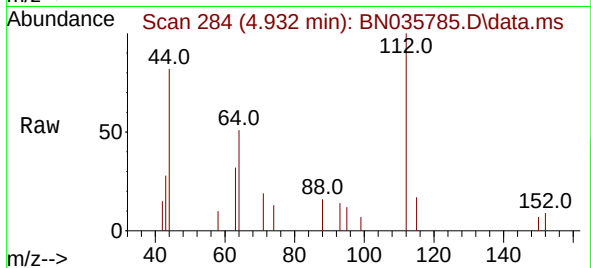




#4
2-Fluorophenol
Concen: 0.147 ng
RT: 4.932 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

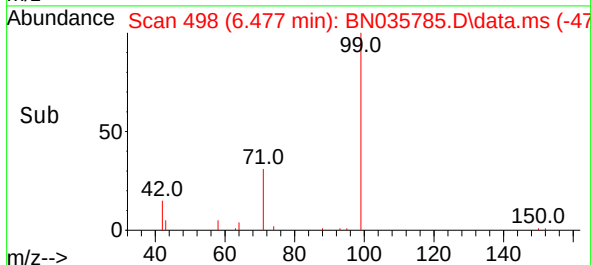
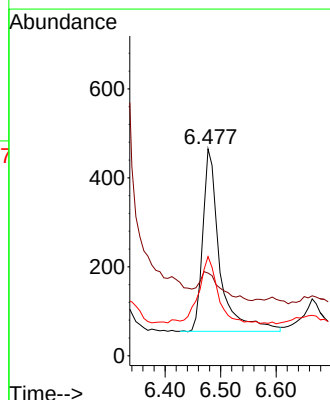
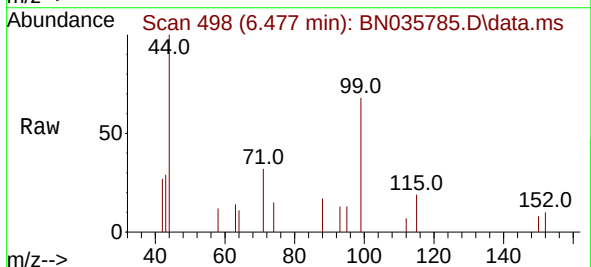
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

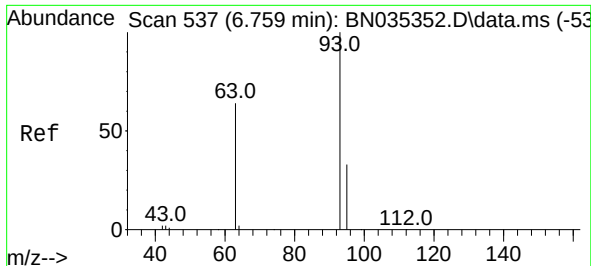
Tgt Ion:	112	Resp:	1274
Ion	Ratio	Lower	Upper
112	100		
64	51.5	39.8	59.8
63	27.9	21.0	31.6



#5
Phenol-d6
Concen: 0.084 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:	99	Resp:	870
Ion	Ratio	Lower	Upper
99	100		
42	19.7	11.4	17.2#
71	41.5	29.3	43.9

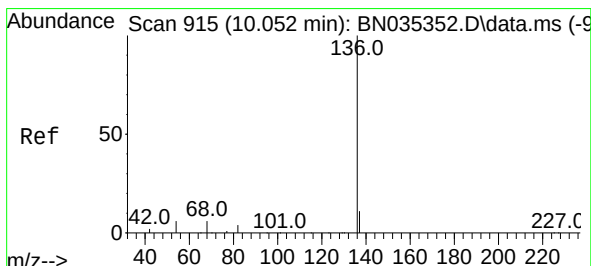
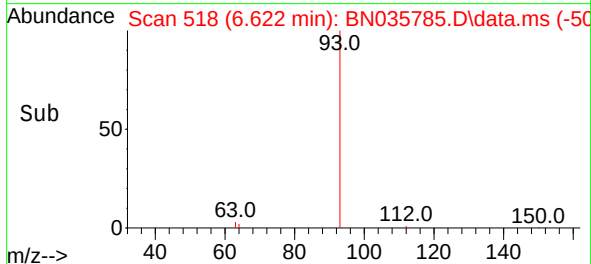
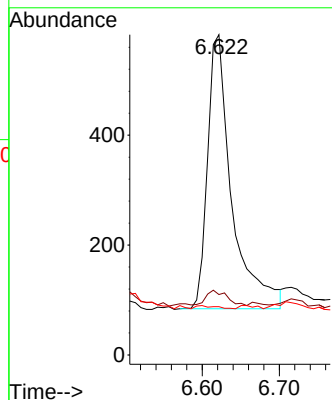
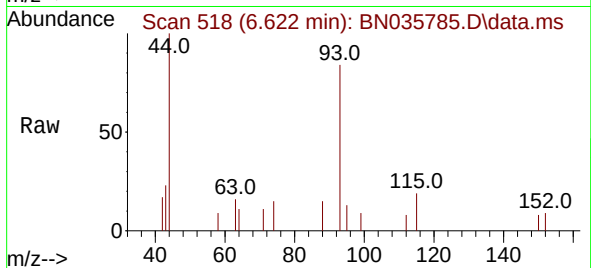




#6
bis(2-Chloroethyl)ether
Concen: 0.125 ng
RT: 6.622 min Scan# 518
Delta R.T. -0.108 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

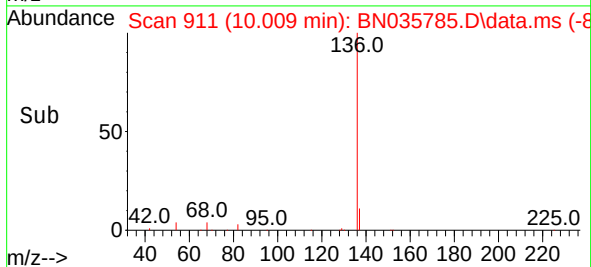
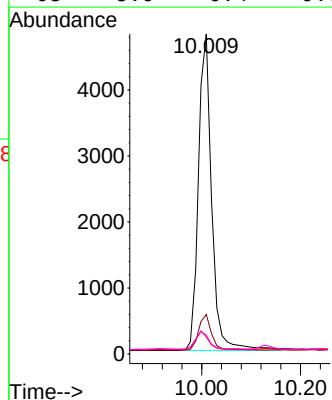
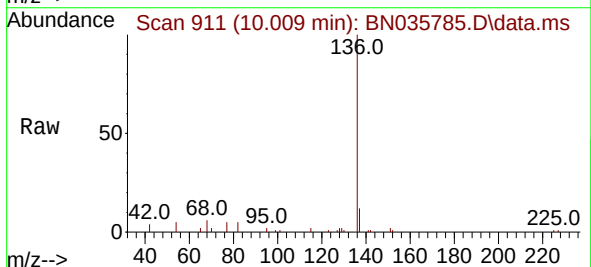
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

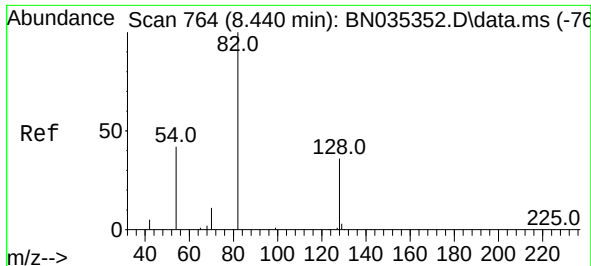
Tgt Ion: 93 Resp: 1088
Ion Ratio Lower Upper
93 100
63 4.8 50.4 75.6#
95 0.0 25.7 38.5#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 136 Resp: 8948
Ion Ratio Lower Upper
136 100
137 12.4 10.2 15.2
54 5.4 6.1 9.1#
68 5.9 6.4 9.6#

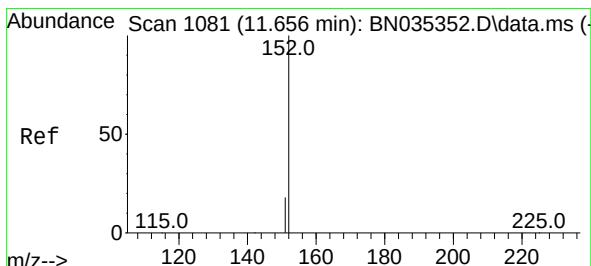
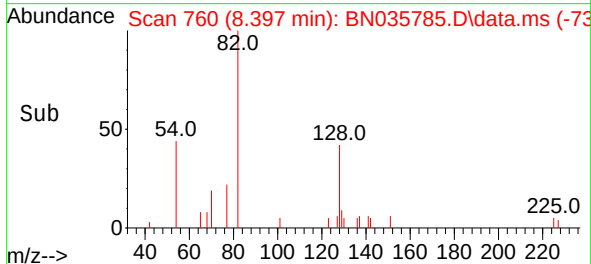
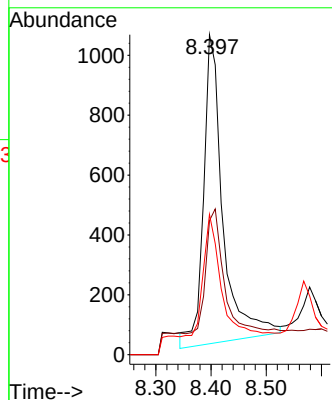
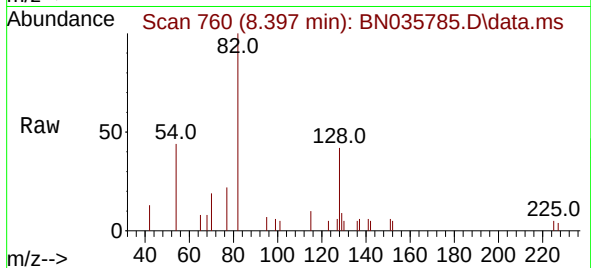




#8
Nitrobenzene-d5
Concen: 0.462 ng
RT: 8.397 min Scan# 764
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

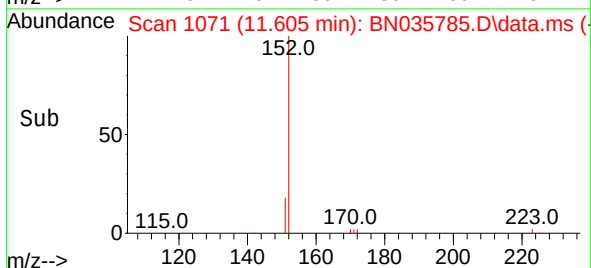
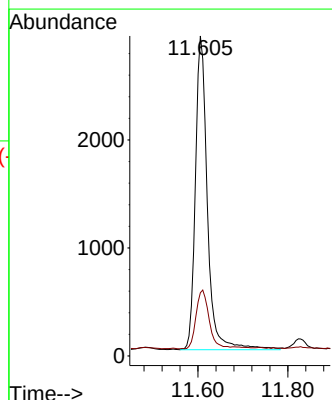
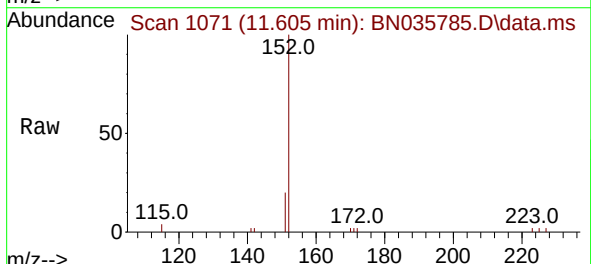
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

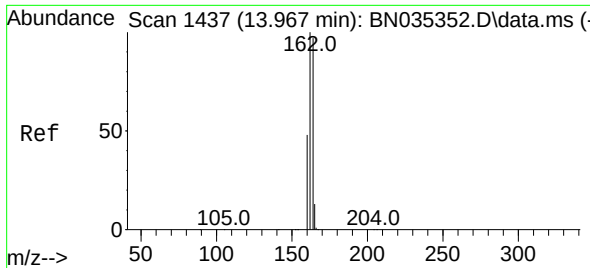
Tgt Ion: 82 Resp: 2527
Ion Ratio Lower Upper
82 100
128 41.9 33.4 50.0
54 43.9 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 152 Resp: 5390
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

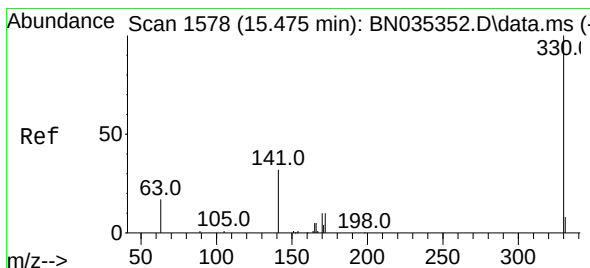
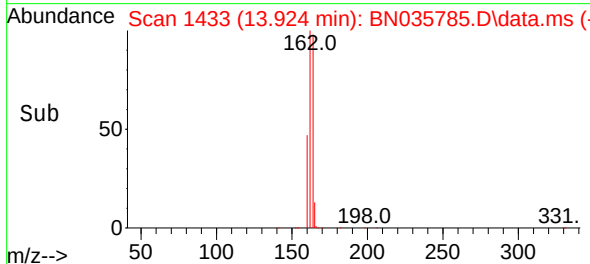
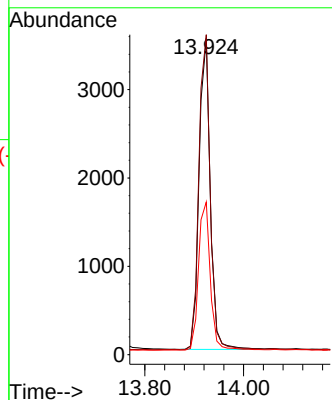
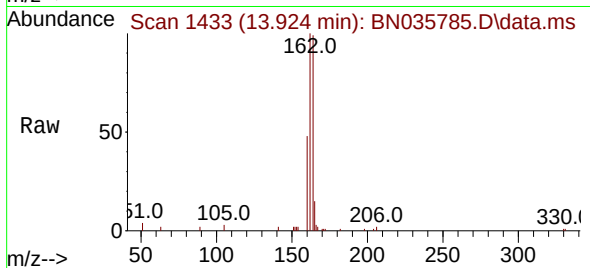




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

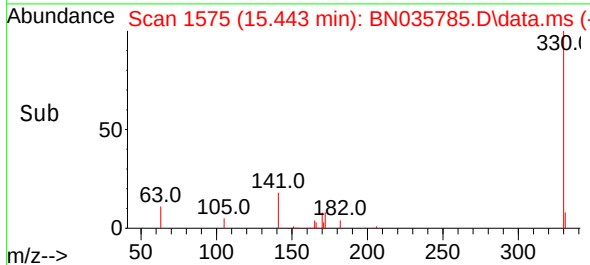
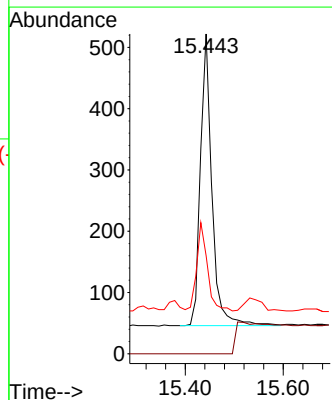
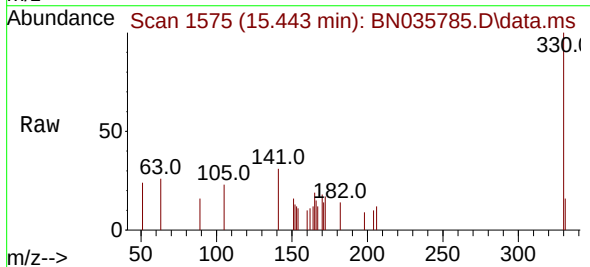
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

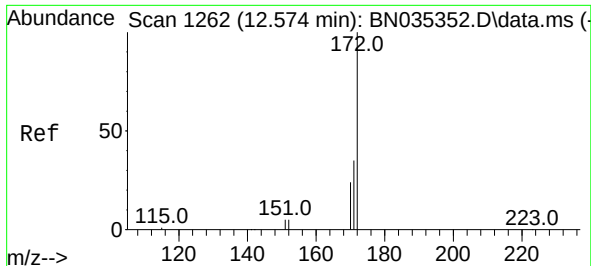
Tgt Ion:164 Resp: 5551
Ion Ratio Lower Upper
164 100
162 101.2 82.2 123.2
160 48.3 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.208 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:330 Resp: 819
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 26.9 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.389 ng

RT: 12.528 min Scan# 1677

Delta R.T. -0.015 min

Lab File: BN035785.D

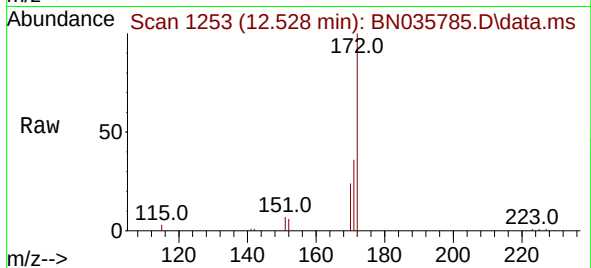
Acq: 23 Dec 2024 15:41

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190A-GW-678-680



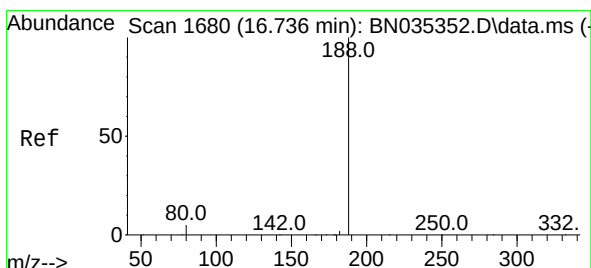
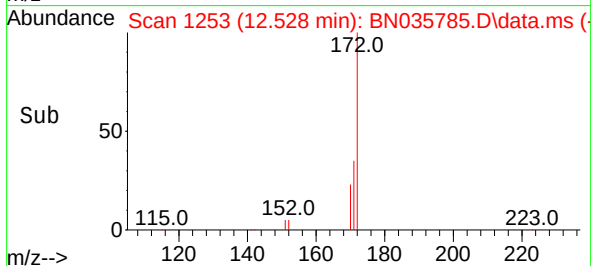
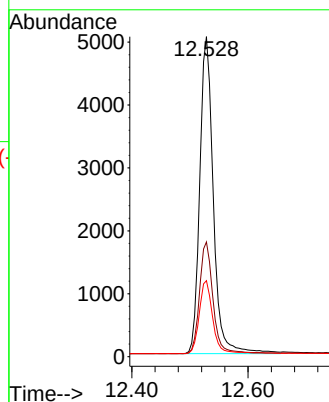
Tgt Ion:172 Resp: 8168

Ion Ratio Lower Upper

172 100

171 35.8 29.0 43.4

170 23.8 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: BN035785.D

Acq: 23 Dec 2024 15:41

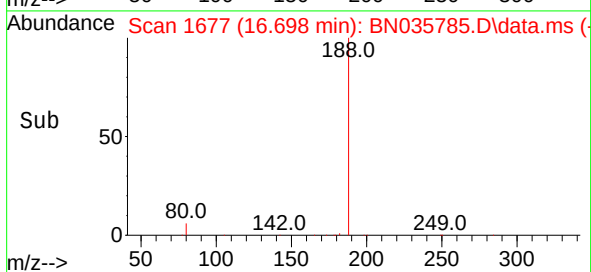
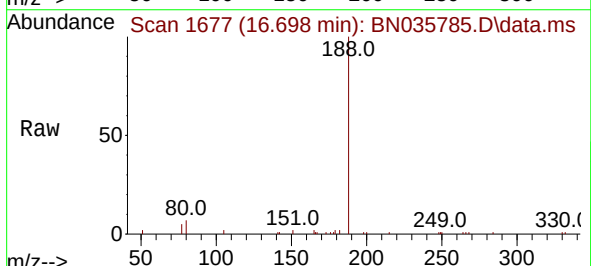
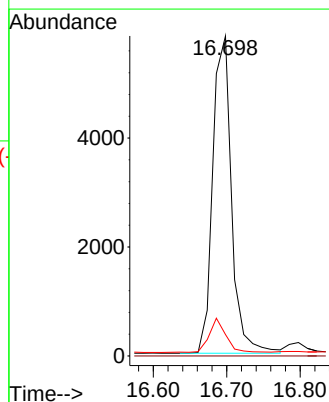
Tgt Ion:188 Resp: 10343

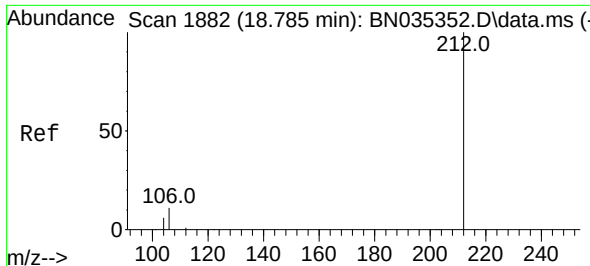
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.7 4.6 6.8

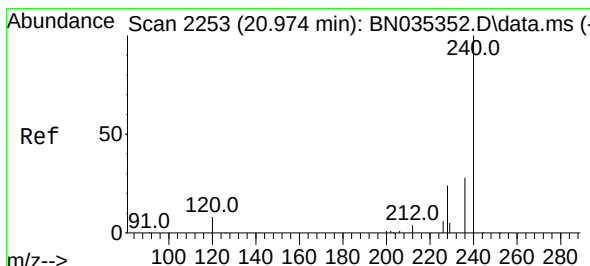
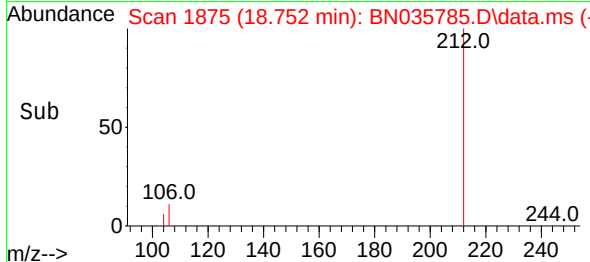
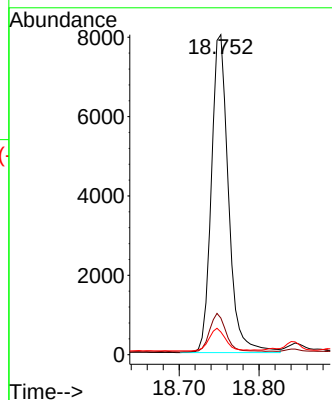
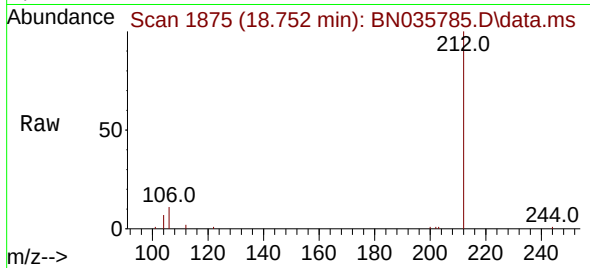




#27
Fluoranthene-d10
Concen: 0.406 ng
RT: 18.752 min Scan# 11895
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

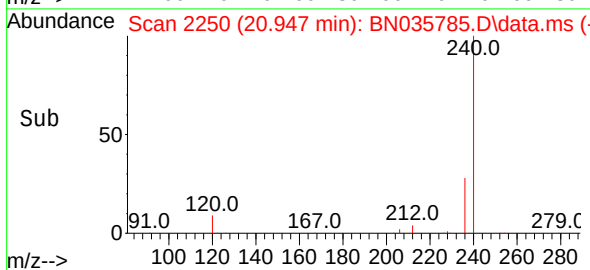
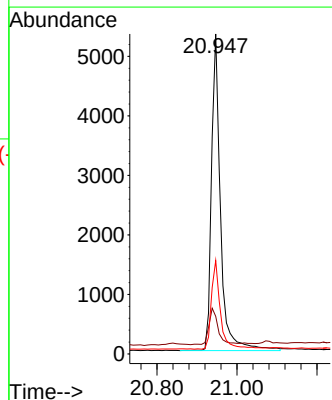
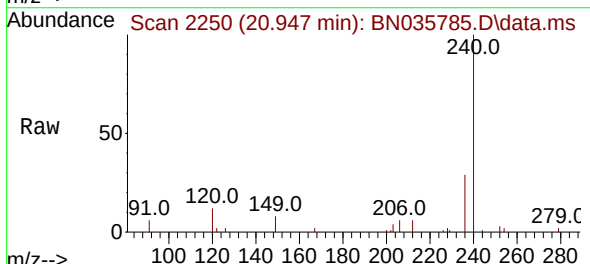
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

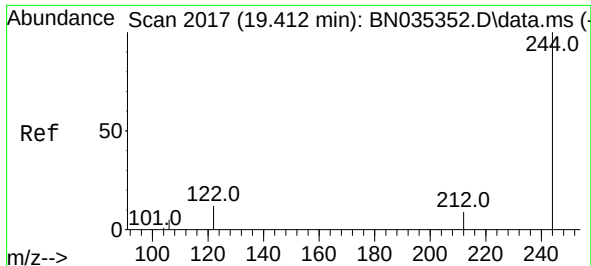
Tgt Ion:	212	Resp:	11895
Ion Ratio	Lower	Upper	
212	100		
106	11.9	9.2	13.8
104	6.8	5.3	7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:	240	Resp:	8364
Ion Ratio	Lower	Upper	
240	100		
120	11.7	7.9	11.9
236	29.2	22.9	34.3

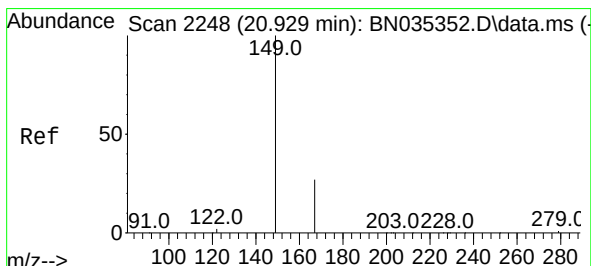
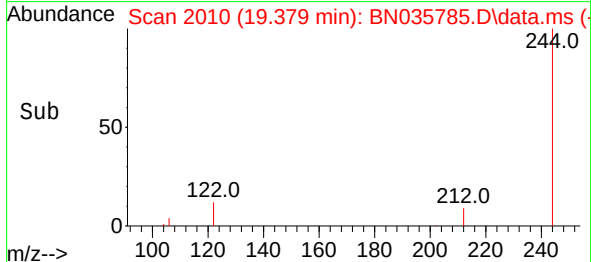
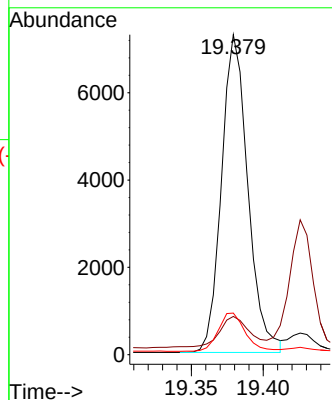
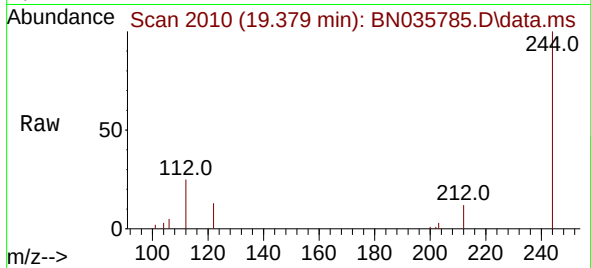




#31
Terphenyl-d14
Concen: 0.562 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

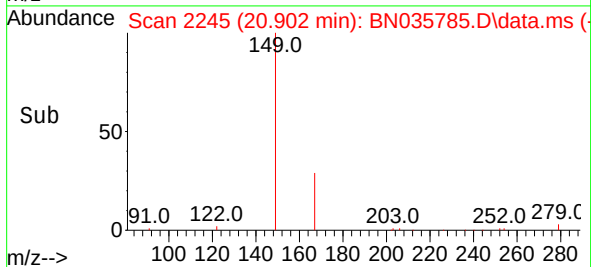
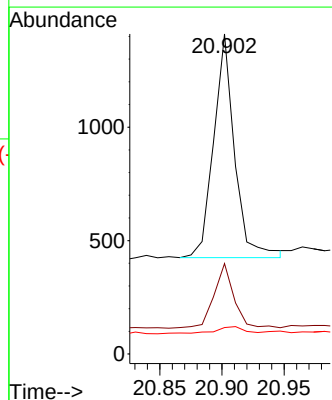
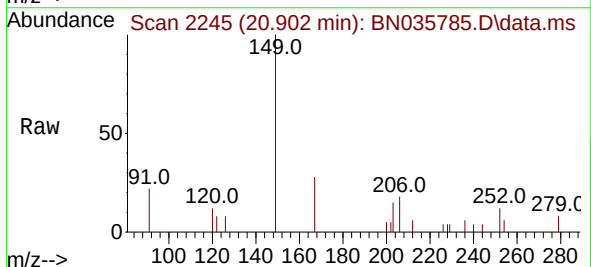
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

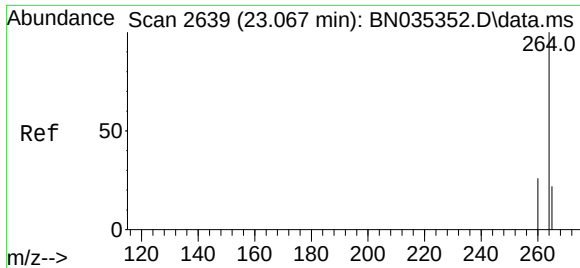
Tgt Ion:244 Resp: 9273
Ion Ratio Lower Upper
244 100
212 12.0 8.1 12.1
122 13.0 10.3 15.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

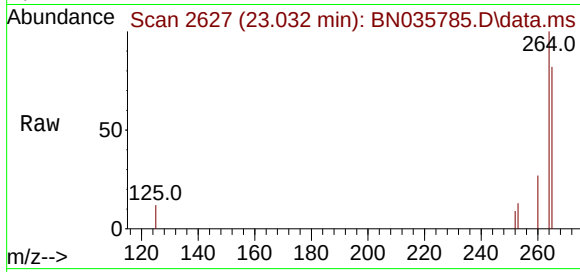
Tgt Ion:149 Resp: 1156
Ion Ratio Lower Upper
149 100
167 27.7 22.2 33.4
279 4.8 2.7 4.1#





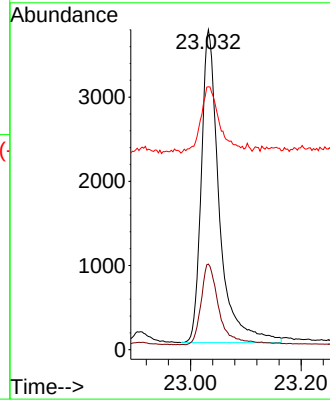
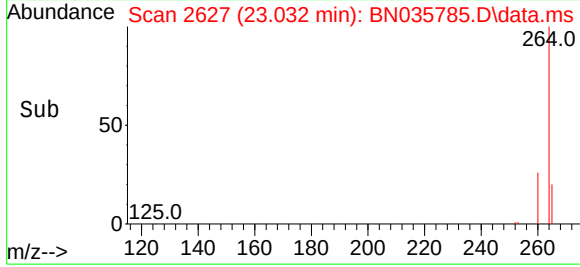
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.032 min Scan# 2
 Delta R.T. -0.009 min
 Lab File: BN035785.D
 Acq: 23 Dec 2024 15:41

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-190A-GW-678-680



Tgt Ion: 264 Resp: 8390

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	82.2	40.2	60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035786.D
 Acq On : 23 Dec 2024 16:17
 Operator : RC/JU
 Sample : P5314-04
 Misc :
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 VPB190A-HYD-20241217

Quant Time: Dec 23 17:12:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

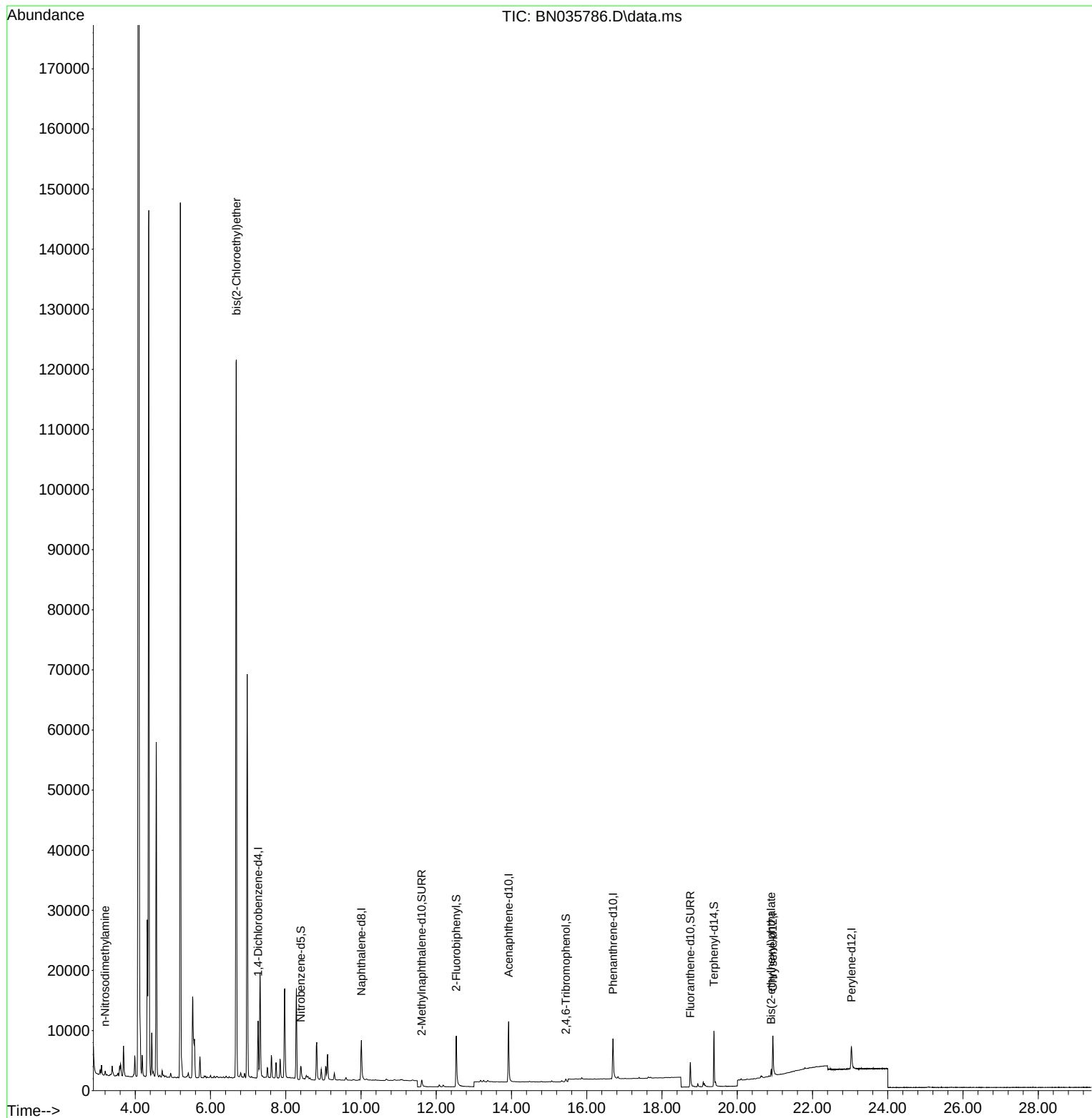
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	4132	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	10947	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	6411	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11585	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7747	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	5708	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	87	0.008	ng	0.00
5) Phenol-d6	6.499	99	29	0.002	ng	0.00
8) Nitrobenzene-d5	8.397	82	3104	0.464	ng	-0.01
11) 2-Methylnaphthalene-d10	11.616	152	2304	0.134	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	575	0.126	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	10360	0.427	ng	-0.01
27) Fluoranthene-d10	18.752	212	5607	0.171	ng	0.00
31) Terphenyl-d14	19.379	244	10391	0.680	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.198	42	540	0.164	ng	# 1
6) bis(2-Chloroethyl)ether	6.687	93	88714	8.489	ng	# 51
34) Bis(2-ethylhexyl)phtha...	20.902	149	1139	0.106	ng	99

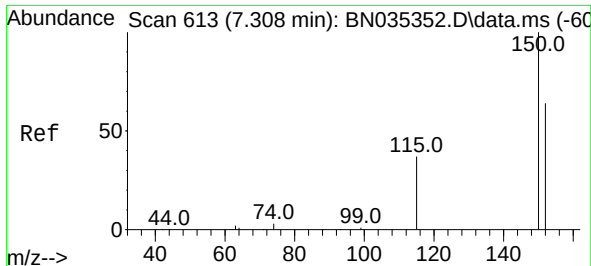
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035786.D
Acq On : 23 Dec 2024 16:17
Operator : RC/JU
Sample : P5314-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

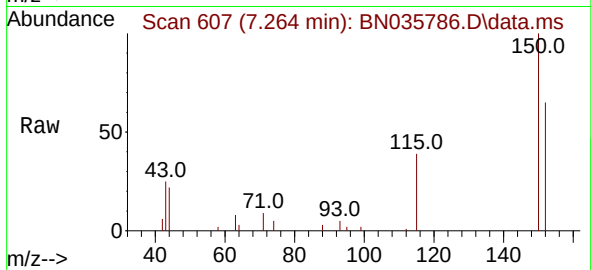
Quant Time: Dec 23 17:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



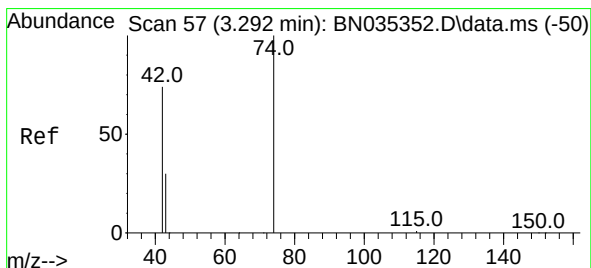
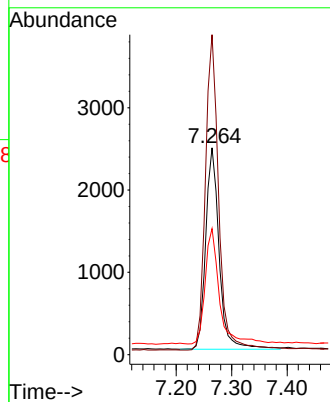
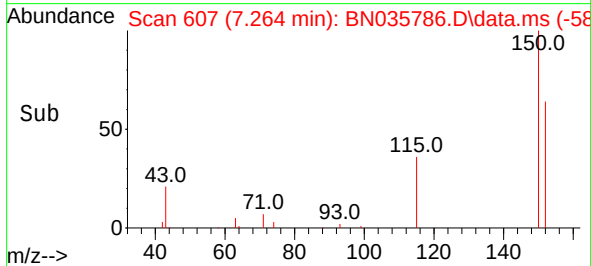


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

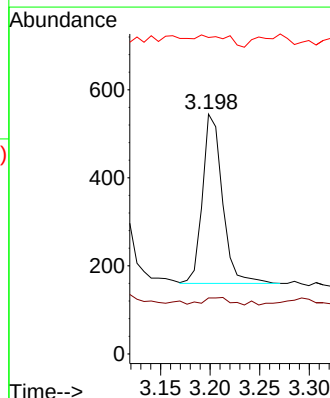
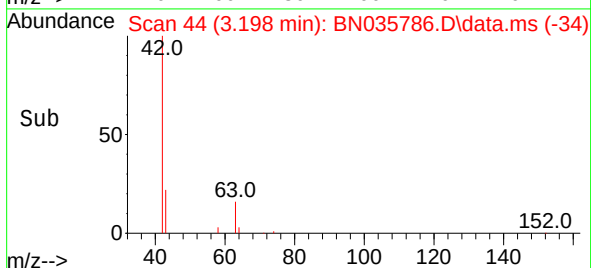
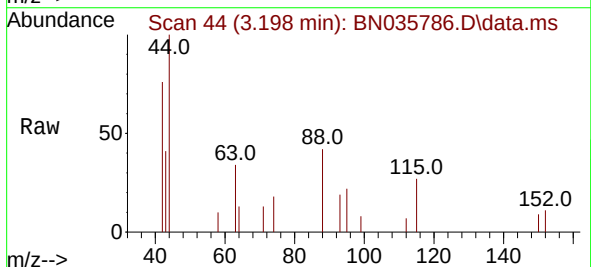


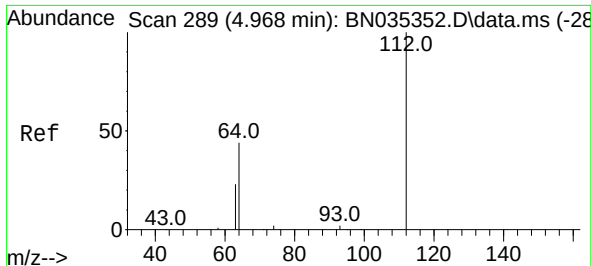
Tgt Ion:152 Resp: 4132
Ion Ratio Lower Upper
152 100
150 154.7 124.0 186.0
115 60.9 49.6 74.4



#3
n-Nitrosodimethylamine
Concen: 0.164 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.079 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion: 42 Resp: 540
Ion Ratio Lower Upper
42 100
74 0.0 124.9 187.3#
44 10.0 2.2 3.4#

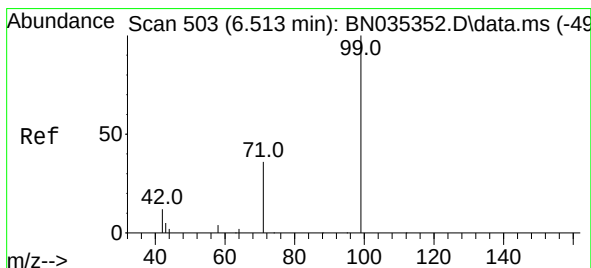
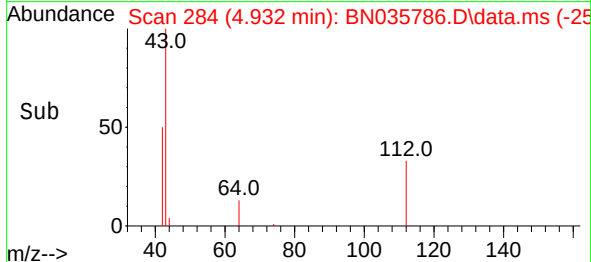
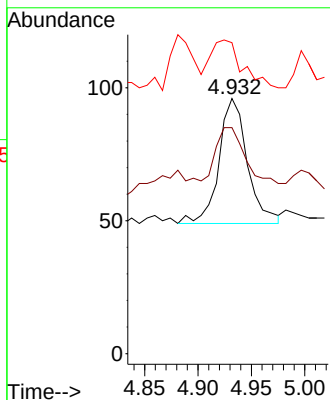
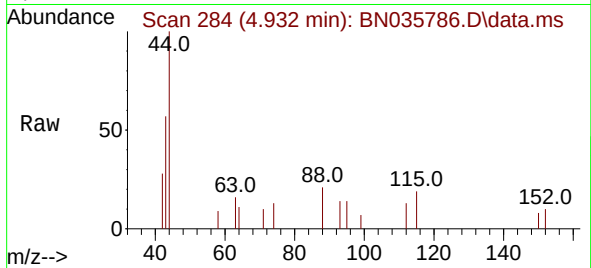




#4
2-Fluorophenol
Concen: 0.008 ng
RT: 4.932 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

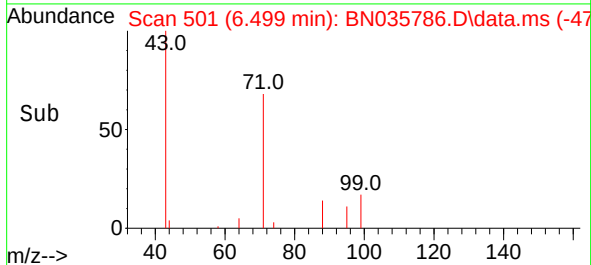
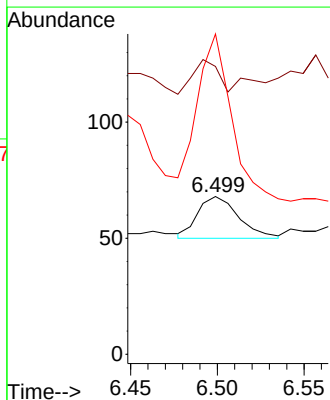
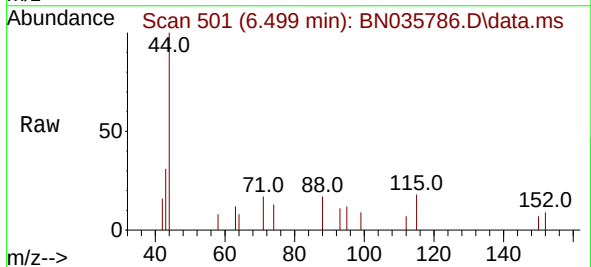
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

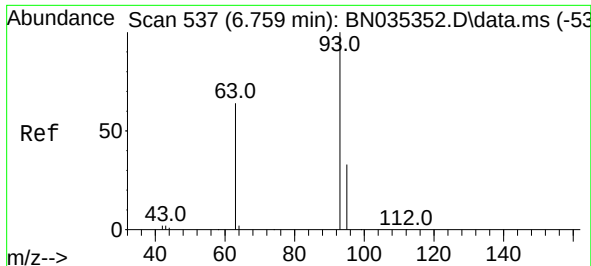
Tgt Ion:112 Resp: 87
Ion Ratio Lower Upper
112 100
64 44.8 39.8 59.8
63 59.8 21.0 31.6#



#5
Phenol-d6
Concen: 0.002 ng
RT: 6.499 min Scan# 501
Delta R.T. 0.007 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion: 99 Resp: 29
Ion Ratio Lower Upper
99 100
42 0.0 11.4 17.2#
71 0.0 29.3 43.9#

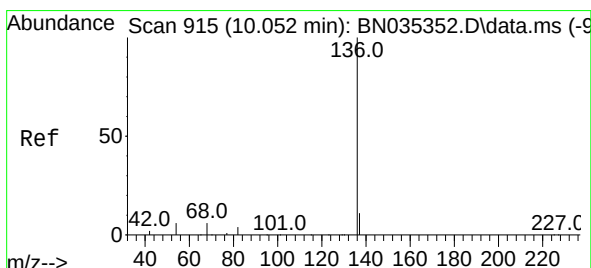
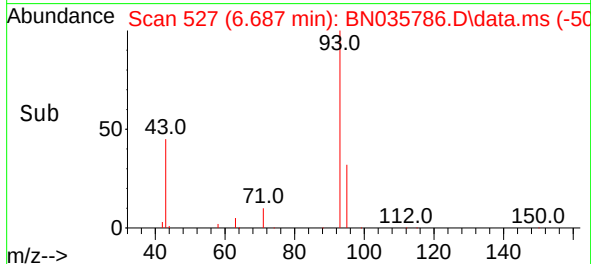
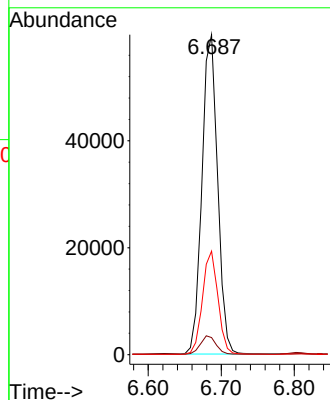
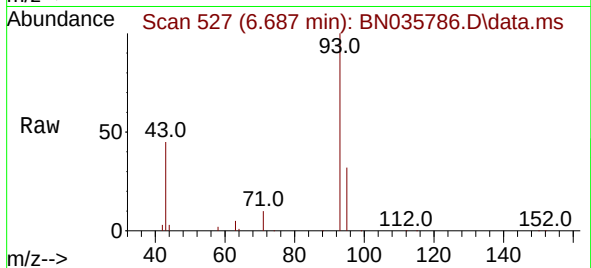




#6
bis(2-Chloroethyl)ether
Concen: 8.489 ng
RT: 6.687 min Scan# 51
Delta R.T. -0.043 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

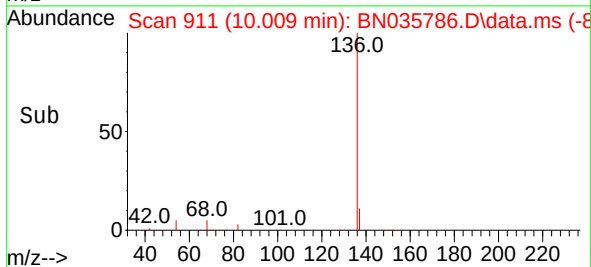
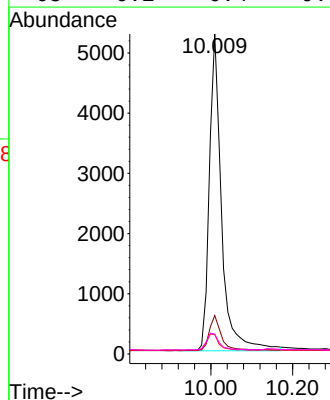
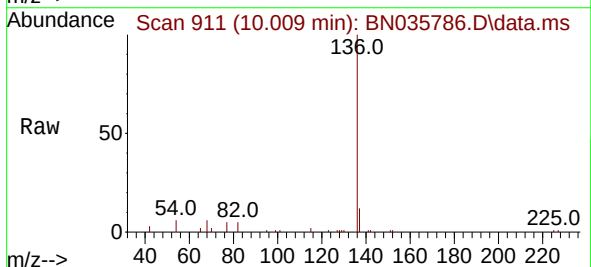
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

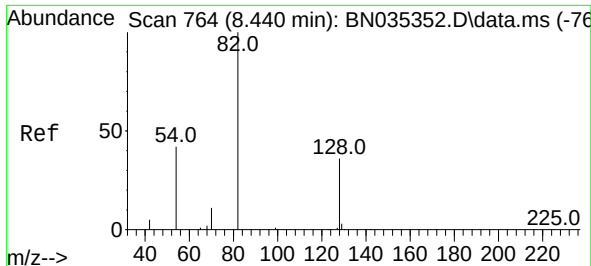
Tgt Ion: 93 Resp: 88714
Ion Ratio Lower Upper
93 100
63 5.7 50.4 75.6#
95 32.0 25.7 38.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion: 136 Resp: 10947
Ion Ratio Lower Upper
136 100
137 12.0 10.2 15.2
54 6.1 6.1 9.1#
68 6.2 6.4 9.6#





#8

Nitrobenzene-d5

Concen: 0.464 ng

RT: 8.397 min Scan# 7

Delta R.T. -0.011 min

Lab File: BN035786.D

Acq: 23 Dec 2024 16:17

Instrument :

BNA_N

ClientSampleId :

VPB190A-HYD-20241217

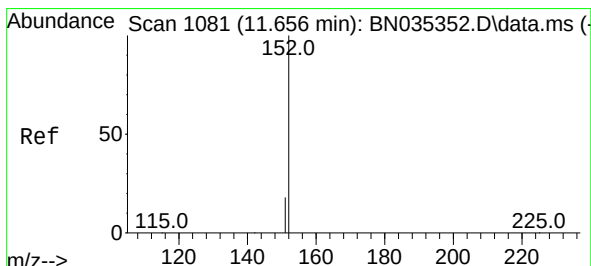
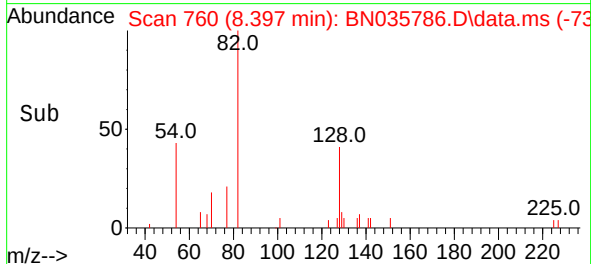
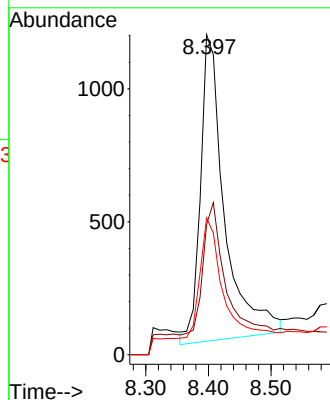
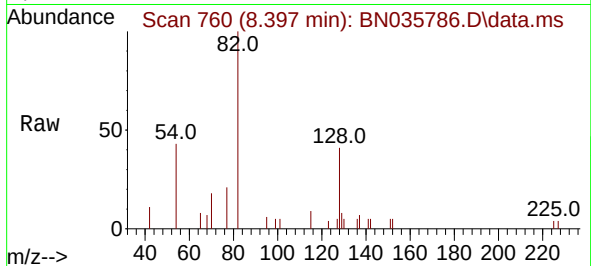
Tgt Ion: 82 Resp: 3104

Ion Ratio Lower Upper

82 100

128 40.7 33.4 50.0

54 42.8 36.7 55.1



#11

2-Methylnaphthalene-d10

Concen: 0.134 ng

RT: 11.616 min Scan# 1073

Delta R.T. -0.005 min

Lab File: BN035786.D

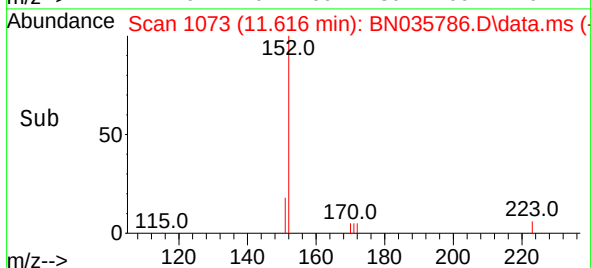
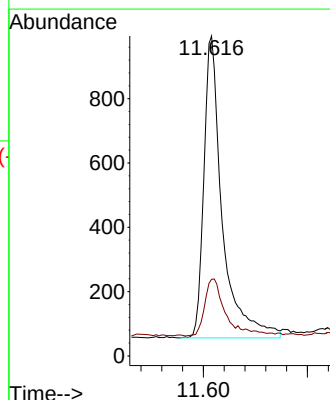
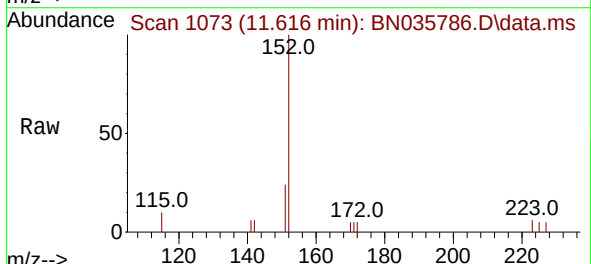
Acq: 23 Dec 2024 16:17

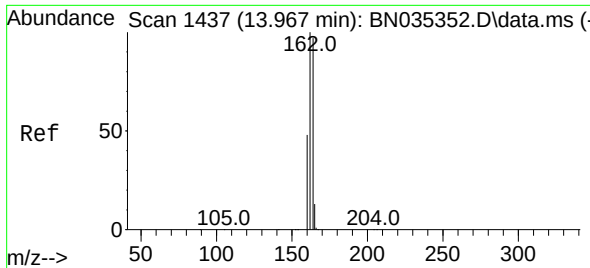
Tgt Ion: 152 Resp: 2304

Ion Ratio Lower Upper

152 100

151 21.6 16.6 25.0

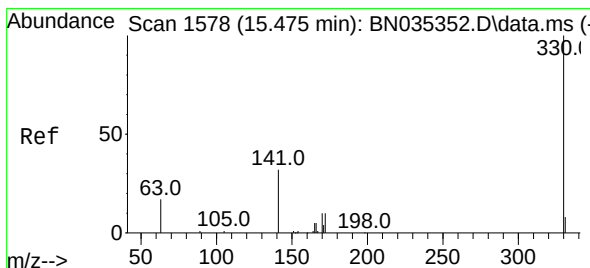
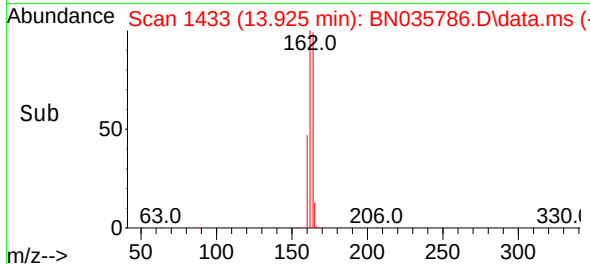
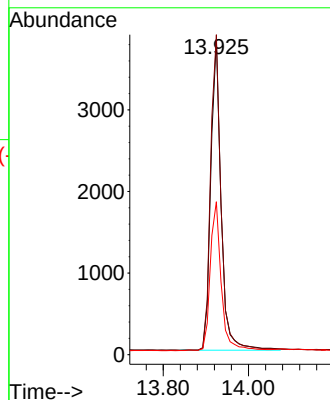
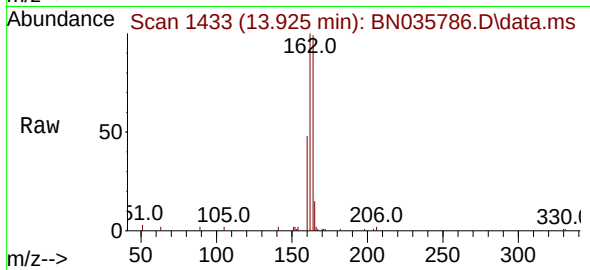




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

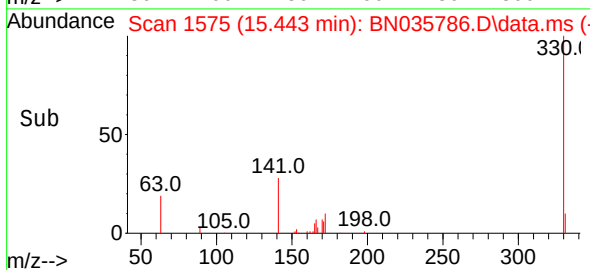
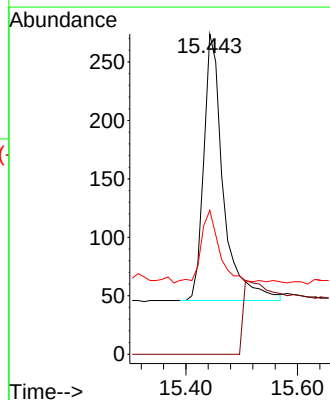
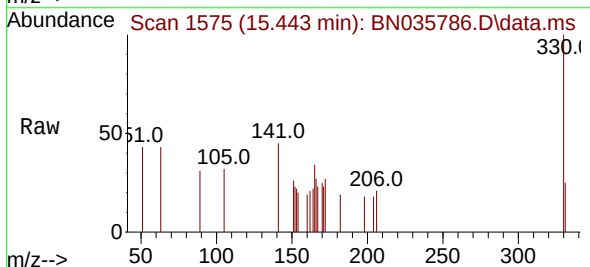
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

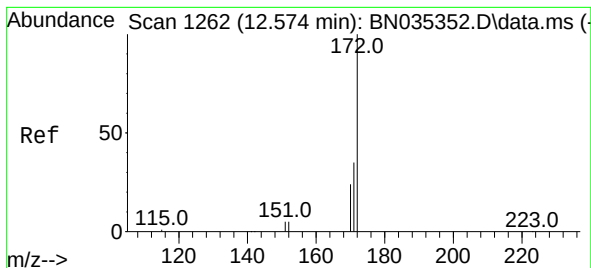
Tgt Ion:164 Resp: 6411
Ion Ratio Lower Upper
164 100
162 101.4 82.2 123.2
160 48.5 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:330 Resp: 575
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 23.8 26.6 40.0#

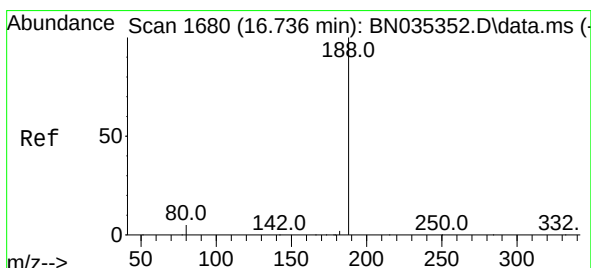
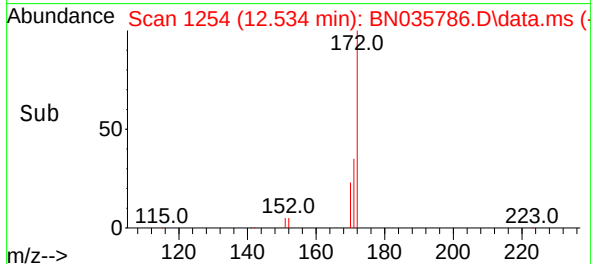
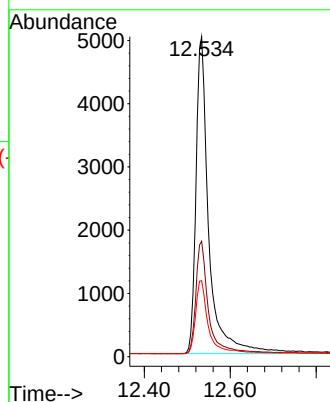
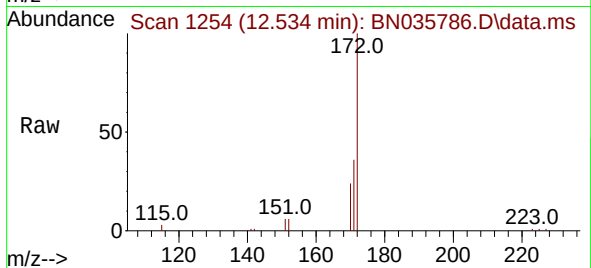




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.534 min Scan# 1677
Delta R.T. -0.010 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

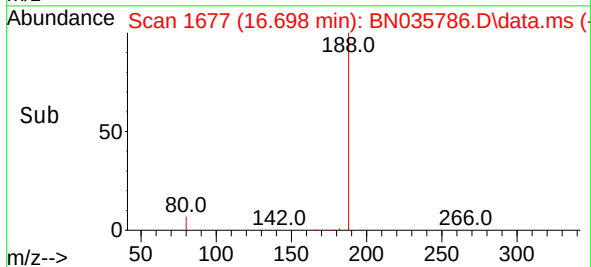
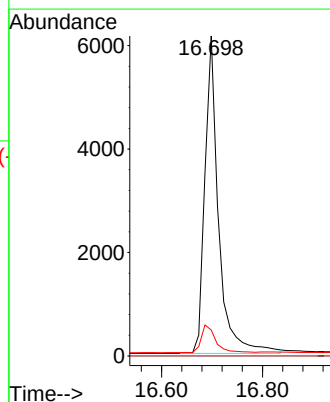
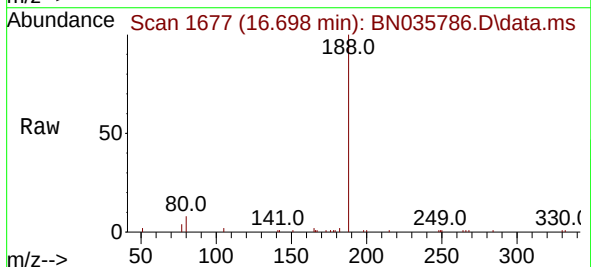
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

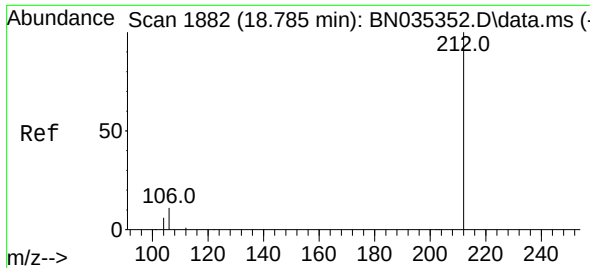
Tgt Ion:172	Resp:	10360
Ion Ratio	Lower	Upper
172	100	
171	36.1	29.0 43.4
170	23.7	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:188	Resp:	11585
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	8.1	4.6 6.8#

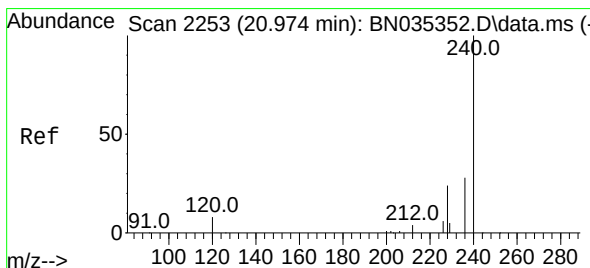
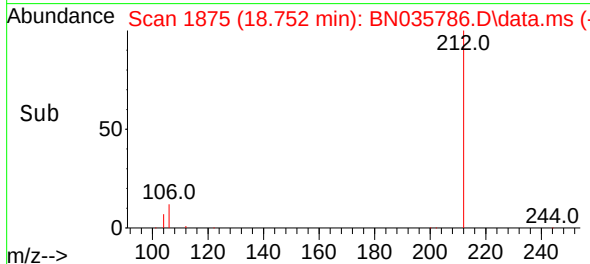
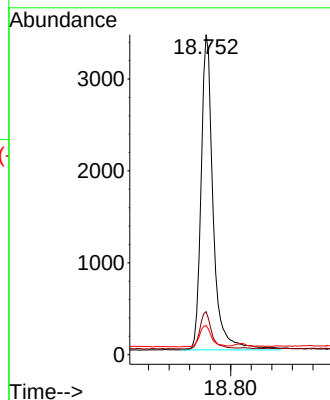
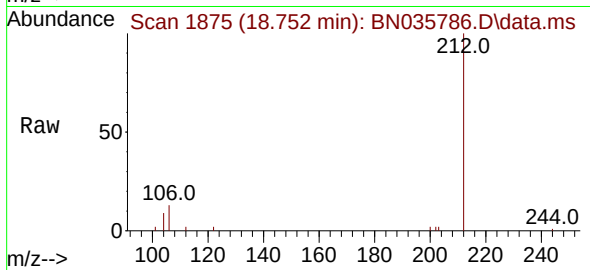




#27
Fluoranthene-d10
Concen: 0.171 ng
RT: 18.752 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

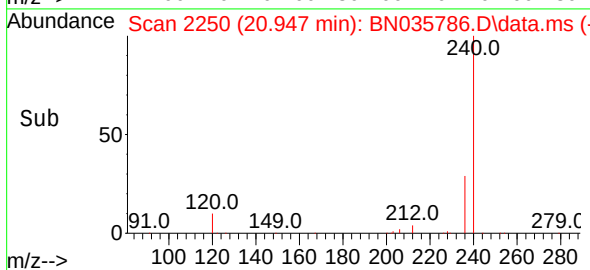
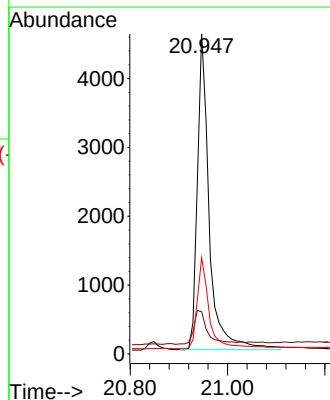
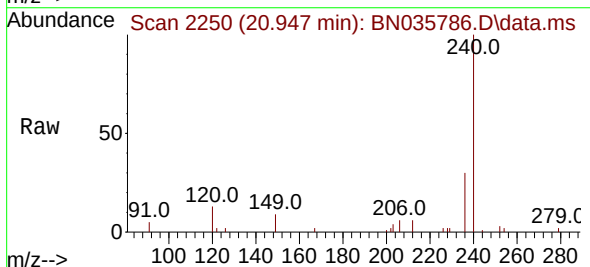
Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

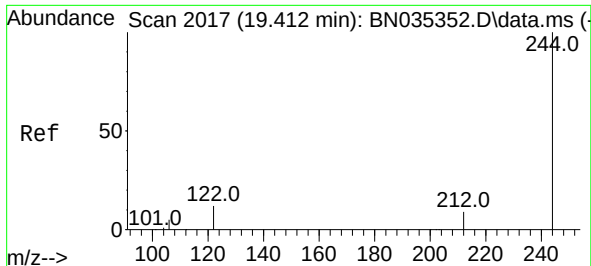
Tgt Ion:212 Resp: 5607
Ion Ratio Lower Upper
212 100
106 11.6 9.2 13.8
104 6.8 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:240 Resp: 7747
Ion Ratio Lower Upper
240 100
120 13.2 7.9 11.9#
236 30.0 22.9 34.3

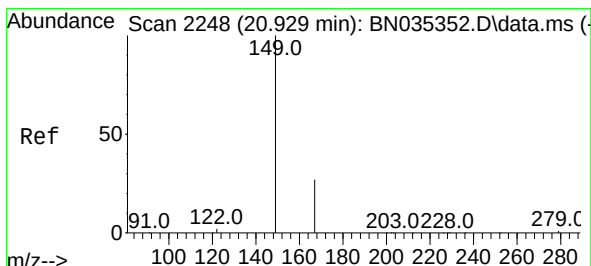
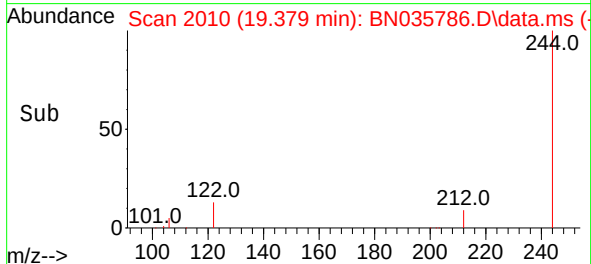
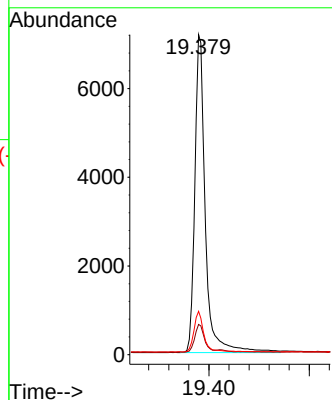
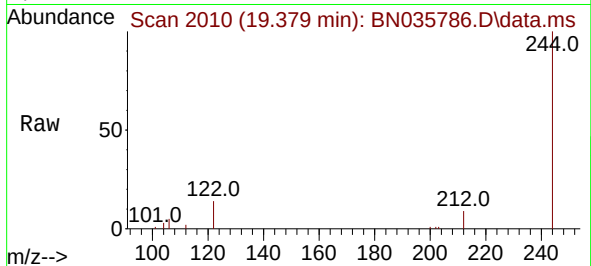




#31
 Terphenyl-d14
 Concen: 0.680 ng
 RT: 19.379 min Scan# 2010
 Delta R.T. -0.009 min
 Lab File: BN035786.D
 Acq: 23 Dec 2024 16:17

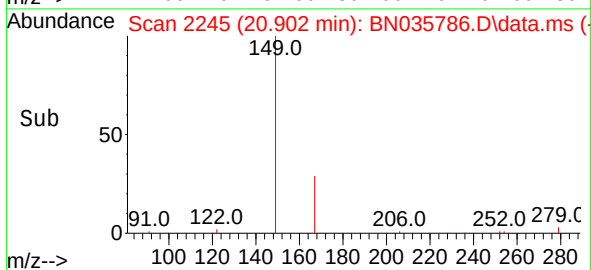
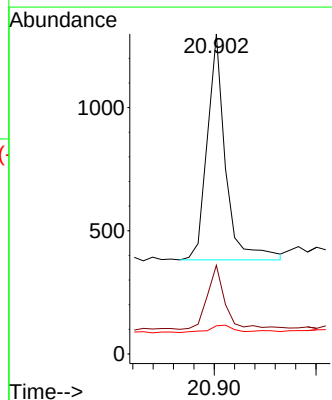
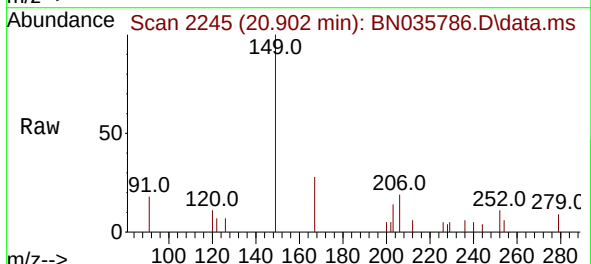
Instrument :
 BNA_N
 ClientSampleId :
 VPB190A-HYD-20241217

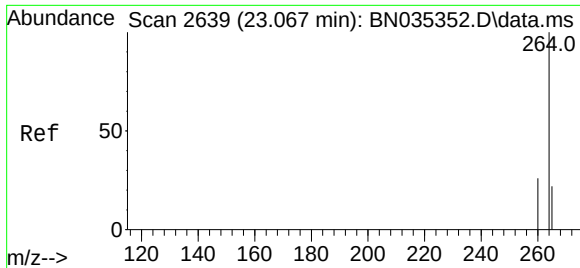
Tgt Ion:244 Resp: 10391
 Ion Ratio Lower Upper
 244 100
 212 9.5 8.1 12.1
 122 13.6 10.3 15.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.106 ng
 RT: 20.902 min Scan# 2245
 Delta R.T. -0.009 min
 Lab File: BN035786.D
 Acq: 23 Dec 2024 16:17

Tgt Ion:149 Resp: 1139
 Ion Ratio Lower Upper
 149 100
 167 28.1 22.2 33.4
 279 3.6 2.7 4.1

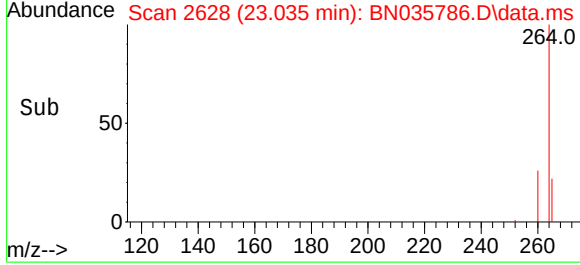
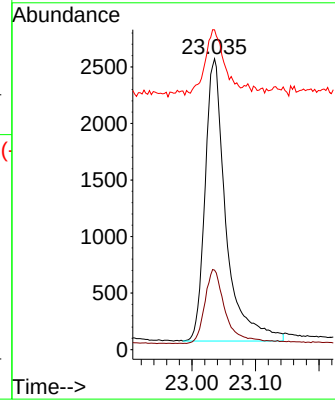
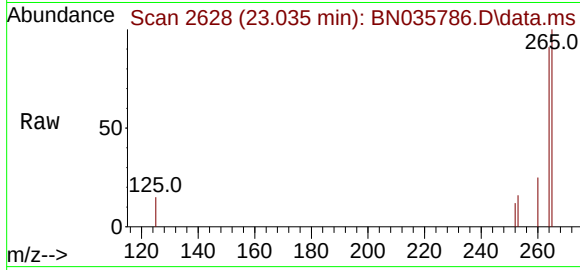




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.035 min Scan# 2
 Delta R.T. -0.006 min
 Lab File: BN035786.D
 Acq: 23 Dec 2024 16:17

Instrument :
 BNA_N
 ClientSampleId :
 VPB190A-HYD-20241217

Tgt Ion:	264	Resp:	5708
Ion Ratio	Lower	Upper	
264	100		
260	27.3	21.4	32.2
265	110.0	40.2	60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
 Data File : BN035792.D
 Acq On : 23 Dec 2024 19:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 74 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 24 00:13:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

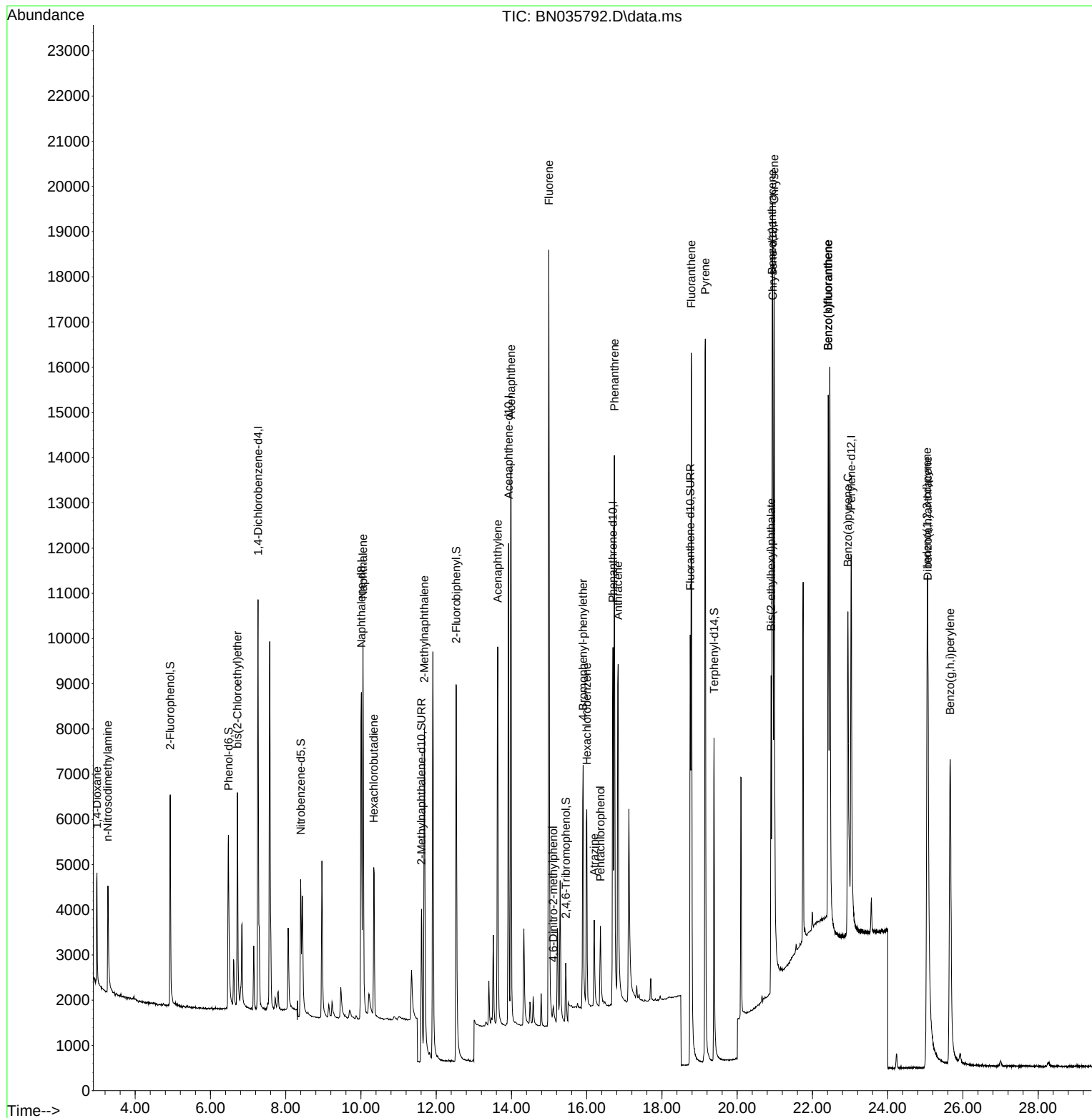
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.265	152	4653	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	11294	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	6622	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	13445	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	11173	0.400	ng	0.00
35) Perylene-d12	23.029	264	12122	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	4438	0.381	ng	0.00
5) Phenol-d6	6.477	99	4937	0.352	ng	-0.01
8) Nitrobenzene-d5	8.397	82	3594	0.521	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	6296	0.356	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	1460	0.311	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	10050	0.401	ng	-0.01
27) Fluoranthene-d10	18.752	212	13067	0.343	ng	0.00
31) Terphenyl-d14	19.384	244	9007	0.409	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.982	88	1781	0.400	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.271	42	1450	0.391	ng	# 87
6) bis(2-Chloroethyl)ether	6.716	93	4124	0.350	ng	100
9) Naphthalene	10.052	128	11411	0.383	ng	99
10) Hexachlorobutadiene	10.340	225	2978	0.433	ng	# 99
12) 2-Methylnaphthalene	11.687	142	7291	0.342	ng	100
16) Acenaphthylene	13.636	152	10309	0.371	ng	99
17) Acenaphthene	13.989	154	7045	0.382	ng	99
18) Fluorene	14.994	166	9147	0.346	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	441	0.334	ng	# 71
21) 4-Bromophenyl-phenylether	15.904	248	2928	0.372	ng	# 95
22) Hexachlorobenzene	16.003	284	4080	0.442	ng	97
23) Atrazine	16.202	200	2050	0.366	ng	94
24) Pentachlorophenol	16.363	266	1288	0.321	ng	89
25) Phenanthrene	16.736	178	13655	0.370	ng	100
26) Anthracene	16.835	178	11693	0.350	ng	99
28) Fluoranthene	18.780	202	16797	0.337	ng	100
30) Pyrene	19.152	202	17165	0.416	ng	100
32) Benzo(a)anthracene	20.929	228	13119	0.336	ng	100
33) Chrysene	20.983	228	16717	0.415	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6294	0.408	ng	100
36) Indeno(1,2,3-cd)pyrene	25.050	276	17740	0.374	ng	99
37) Benzo(b)fluoranthene	22.418	252	23904	0.539	ng	99
38) Benzo(k)fluoranthene	22.418	252	23904	0.548	ng	99
39) Benzo(a)pyrene	22.942	252	13375	0.366	ng	# 93
40) Dibenzo(a,h)anthracene	25.067	278	13081	0.350	ng	97
41) Benzo(g,h,i)perylene	25.661	276	15725	0.402	ng	100

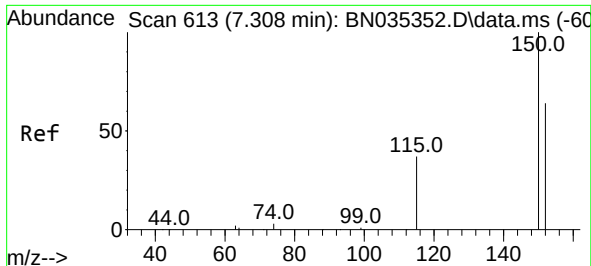
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

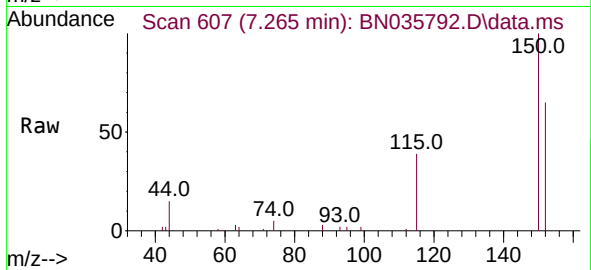
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



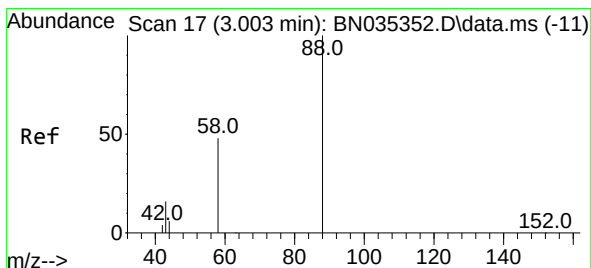
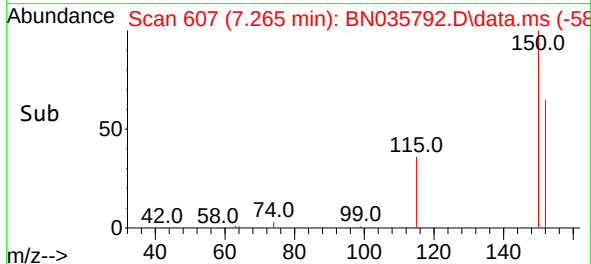
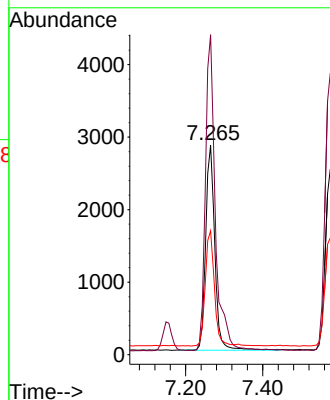


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.265 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

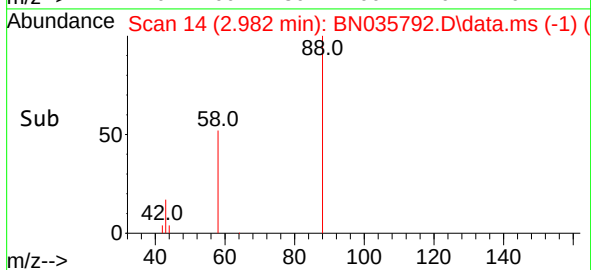
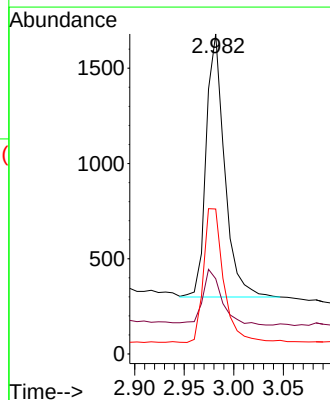
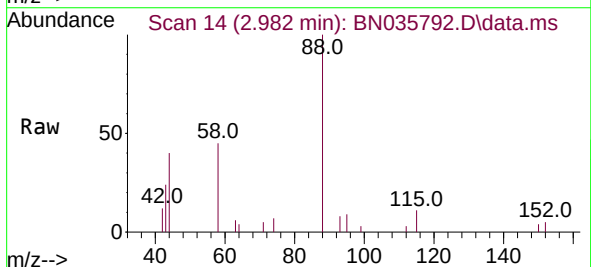


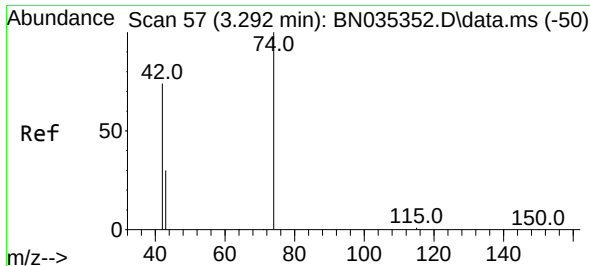
Tgt Ion:152 Resp: 4653
Ion Ratio Lower Upper
152 100
150 152.8 124.0 186.0
115 59.2 49.6 74.4



#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 88 Resp: 1781
Ion Ratio Lower Upper
88 100
43 22.0 17.2 25.8
58 55.8 44.5 66.7

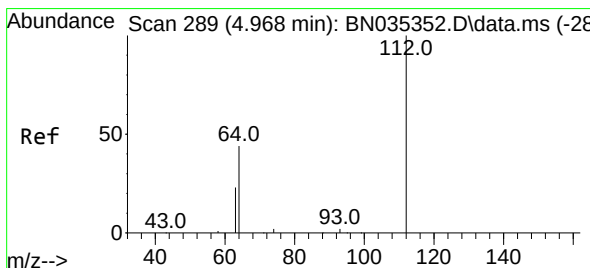
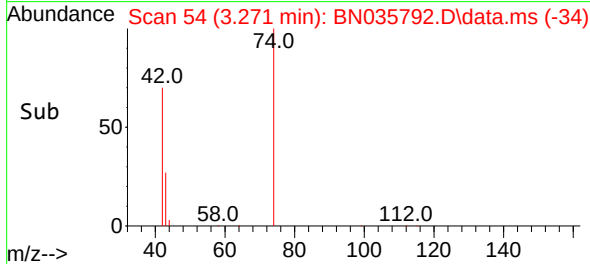
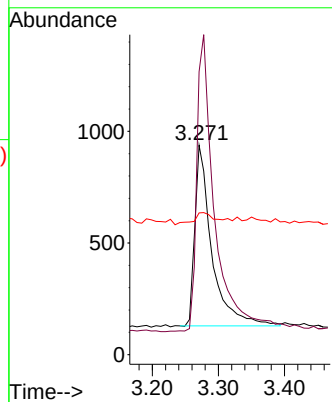
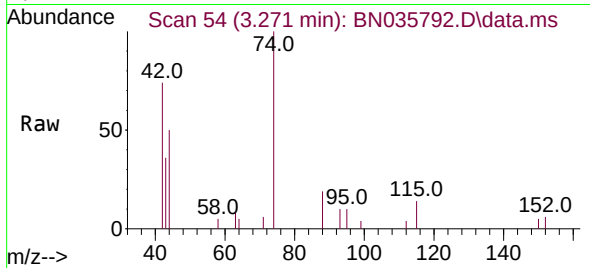




#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

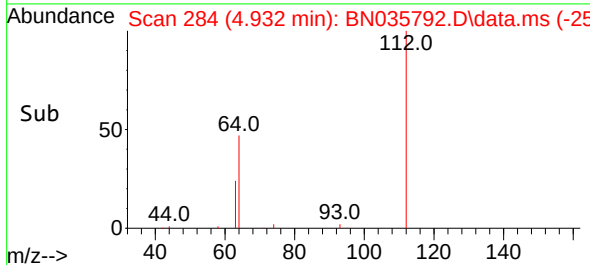
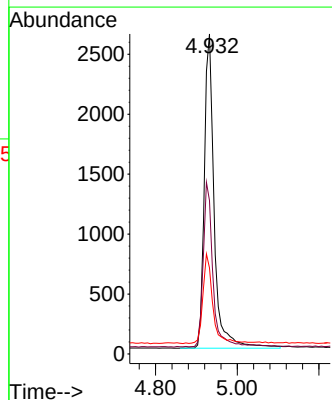
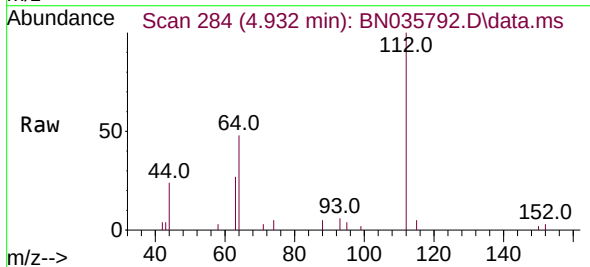
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

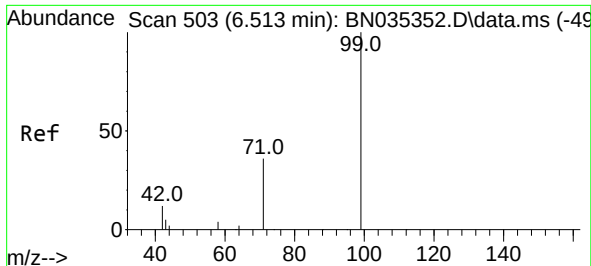
Tgt Ion: 42 Resp: 1450
Ion Ratio Lower Upper
42 100
74 173.0 124.9 187.3
44 5.2 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.381 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 112 Resp: 4438
Ion Ratio Lower Upper
112 100
64 51.3 39.8 59.8
63 28.3 21.0 31.6

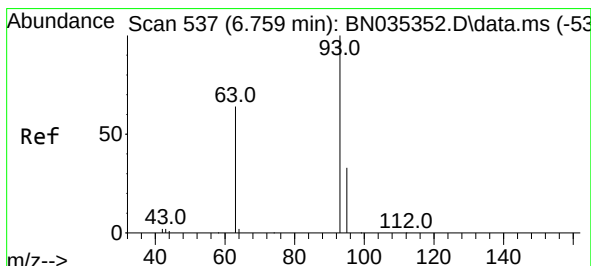
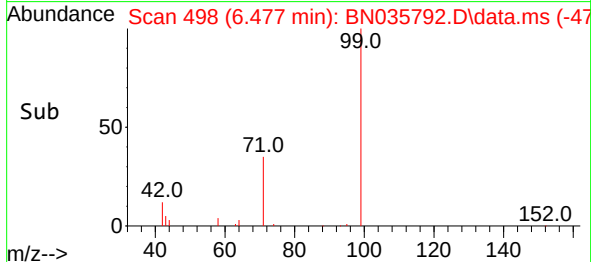
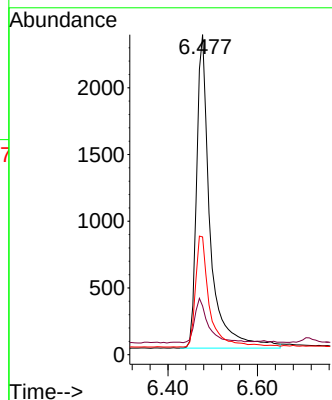
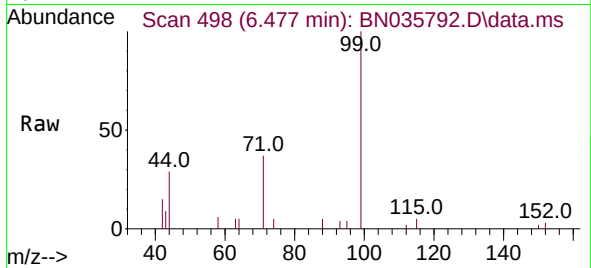




#5
Phenol-d6
Concen: 0.352 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

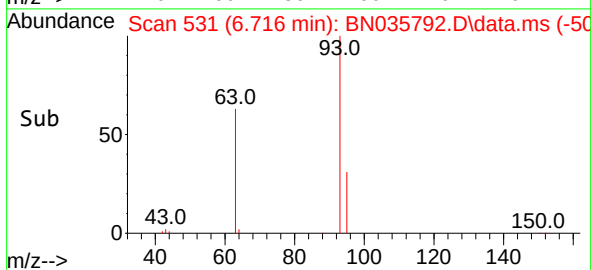
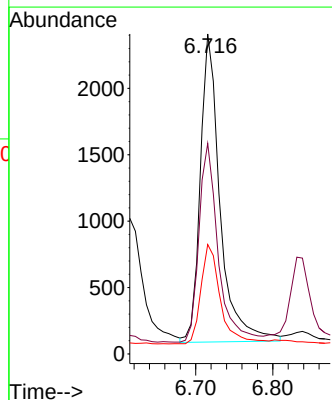
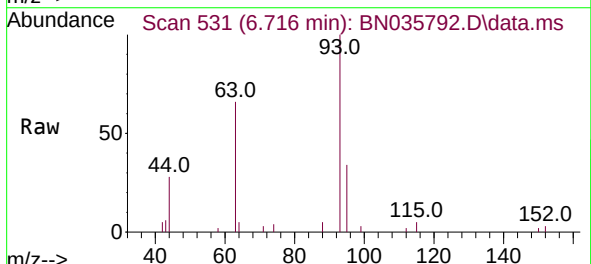
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

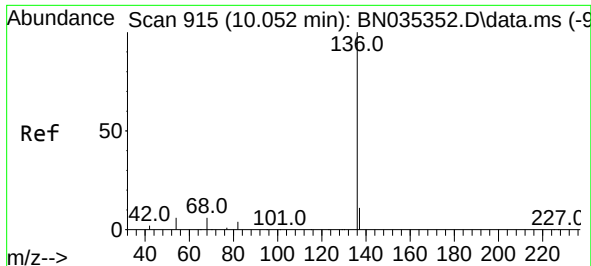
Tgt Ion:	99	Resp:	4937
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.4	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:	93	Resp:	4124
Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5

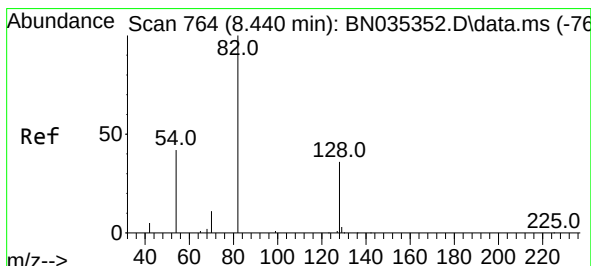
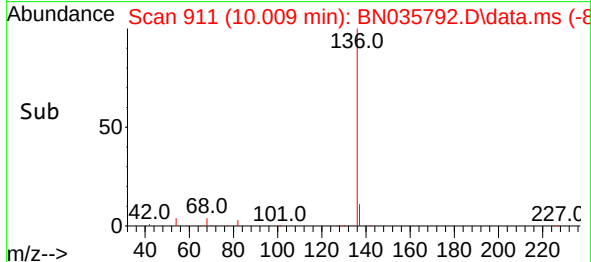
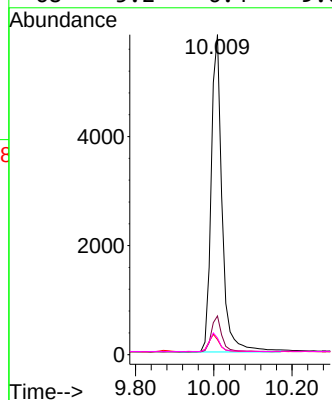
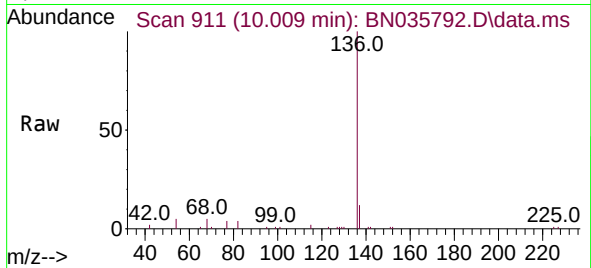




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

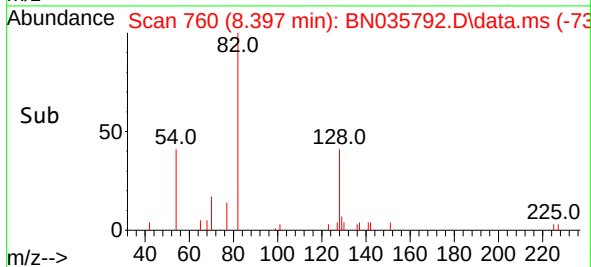
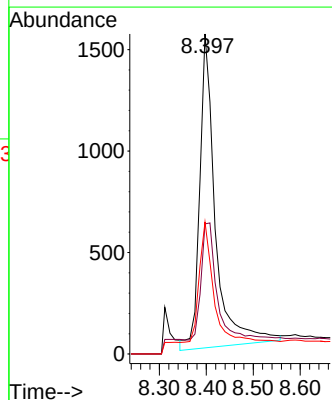
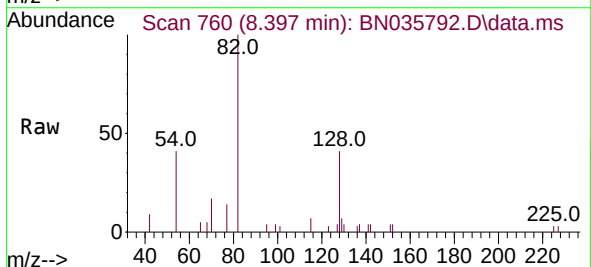
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

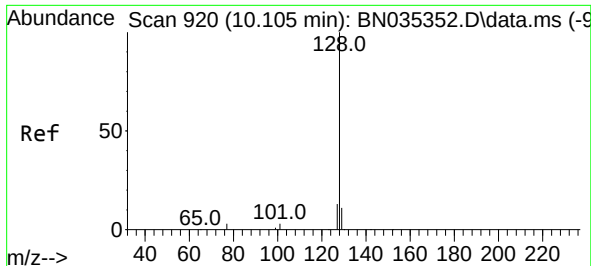
Tgt Ion:	136	Resp:	11294
Ion Ratio	Lower	Upper	
136	100		
137	12.1	10.2	15.2
54	4.7	6.1	9.1#
68	5.2	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.521 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:	82	Resp:	3594
Ion Ratio	Lower	Upper	
82	100		
128	40.6	33.4	50.0
54	41.3	36.7	55.1

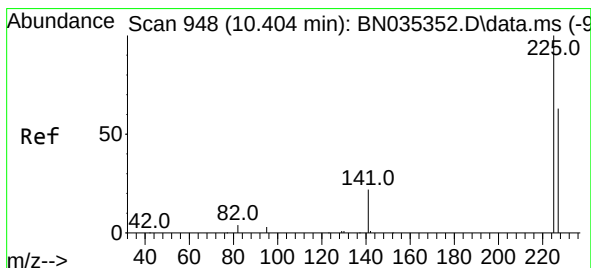
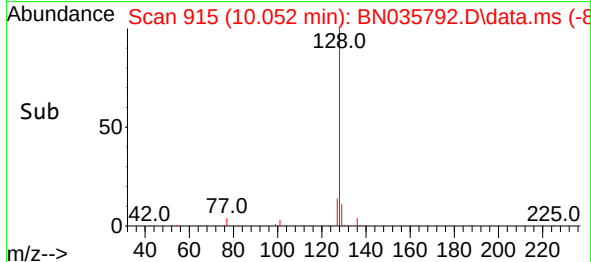
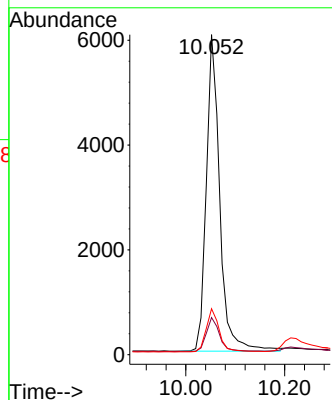
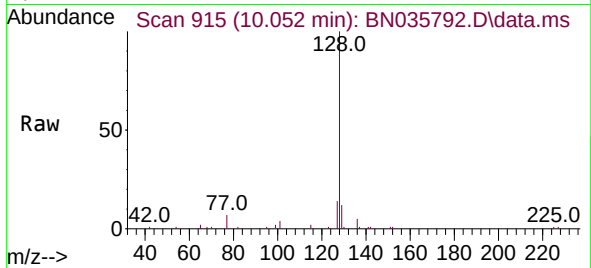




#9
Naphthalene
Concen: 0.383 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

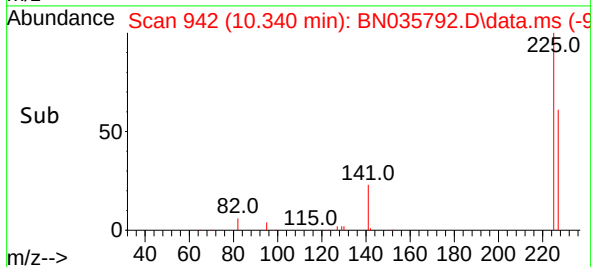
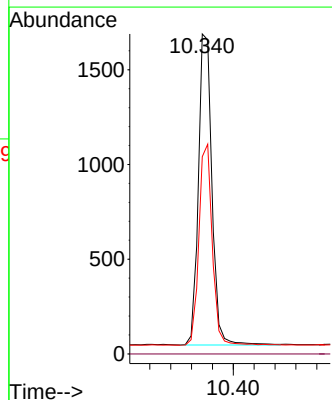
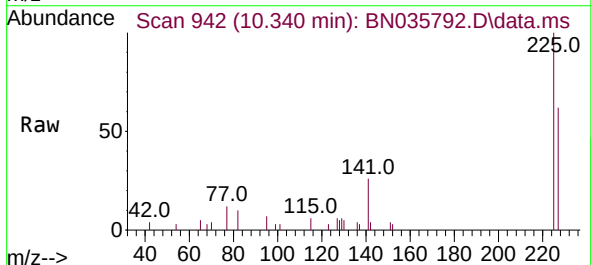
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

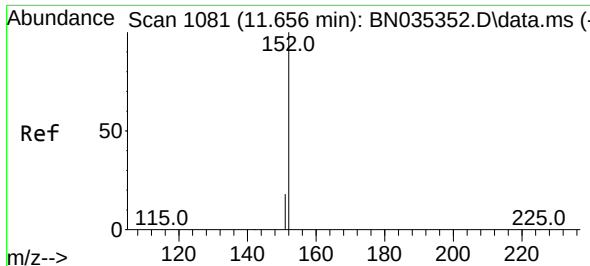
Tgt Ion:128	Resp:	11411
Ion Ratio	Lower	Upper
128	100	
129	11.6	9.8 14.6
127	14.3	11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:225	Resp:	2978
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	63.6	51.3 76.9

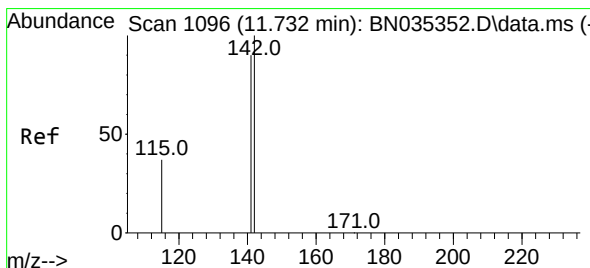
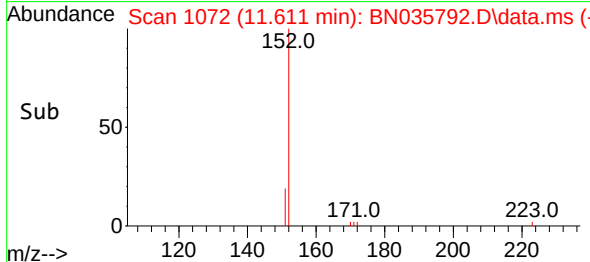
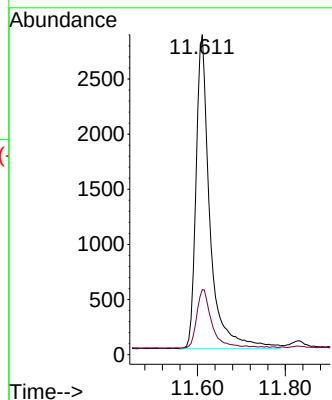
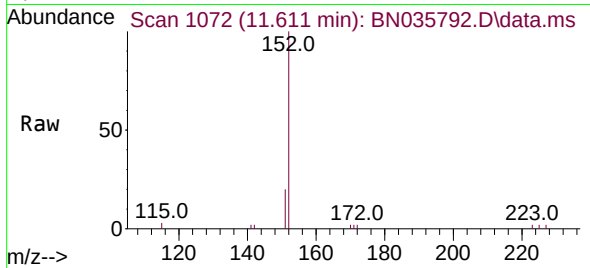




#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

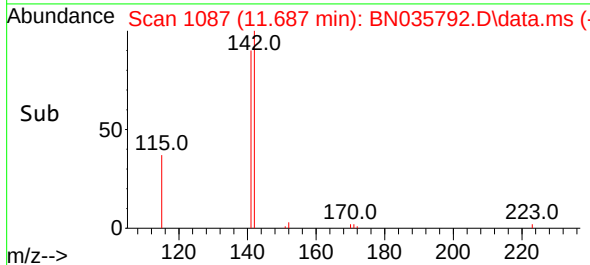
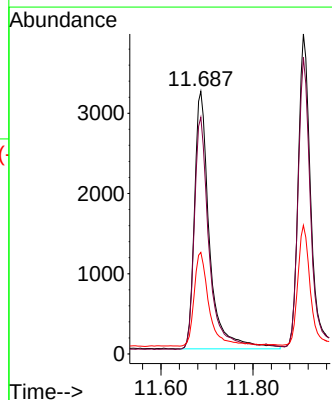
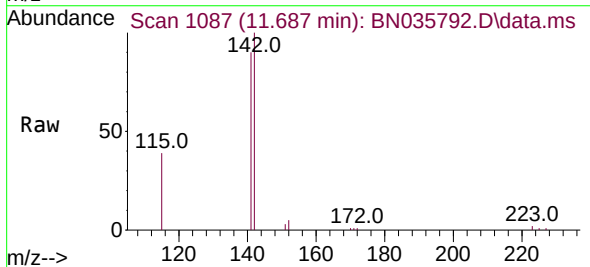
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

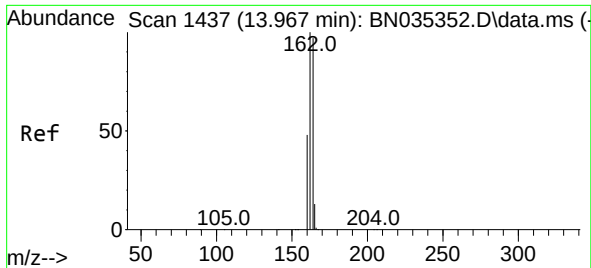
Tgt Ion:152 Resp: 6296
Ion Ratio Lower Upper
152 100
151 19.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.342 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

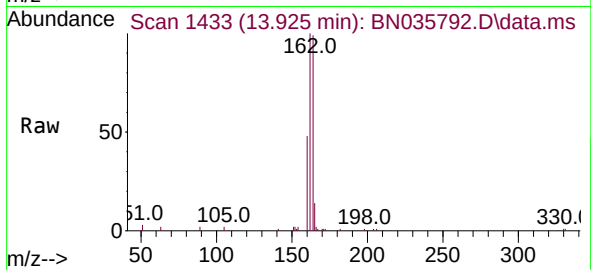
Tgt Ion:142 Resp: 7291
Ion Ratio Lower Upper
142 100
141 90.1 72.2 108.4
115 38.7 31.4 47.0



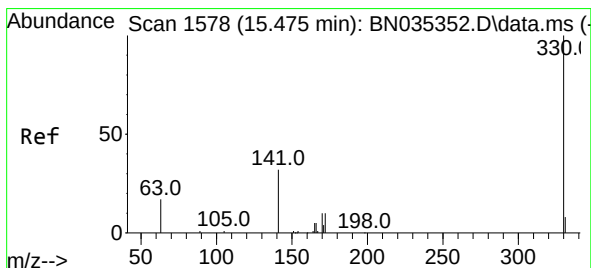
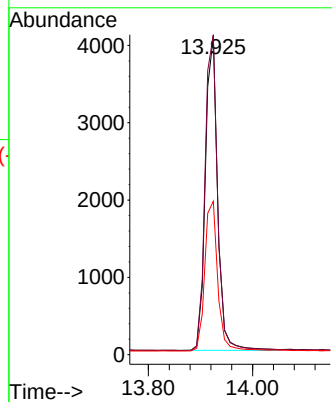
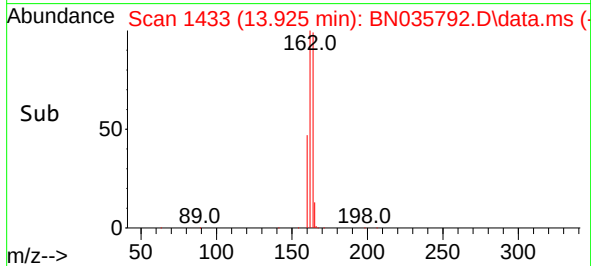


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

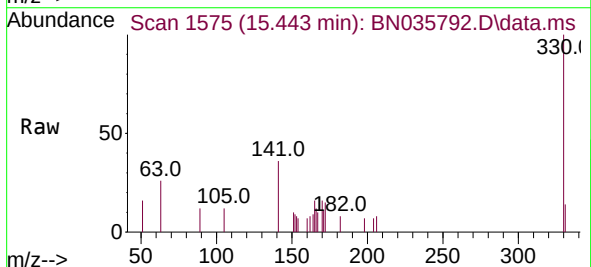
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



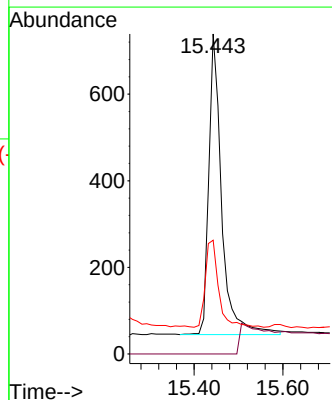
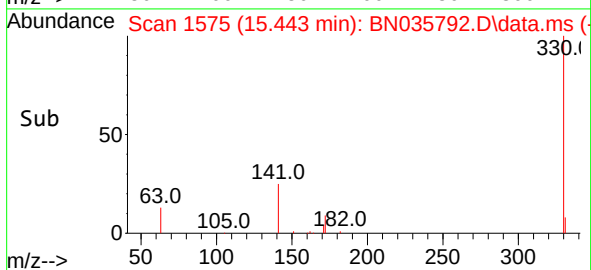
Tgt Ion:164 Resp: 6622
Ion Ratio Lower Upper
164 100
162 100.6 82.2 123.2
160 48.2 40.1 60.1

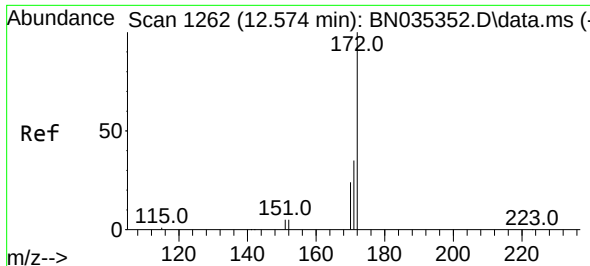


#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51



Tgt Ion:330 Resp: 1460
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.7 26.6 40.0

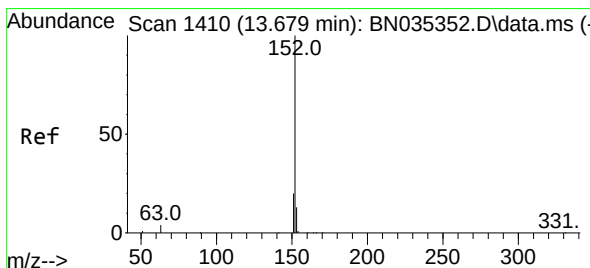
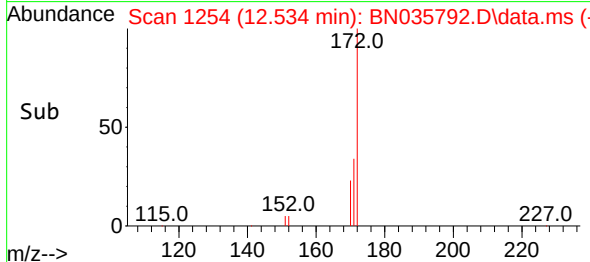
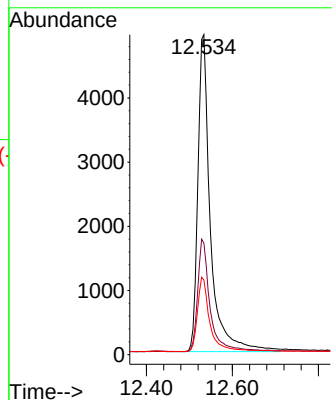
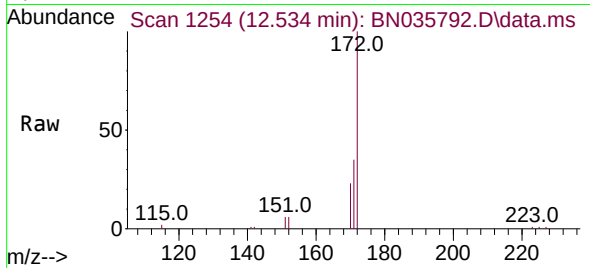




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.534 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

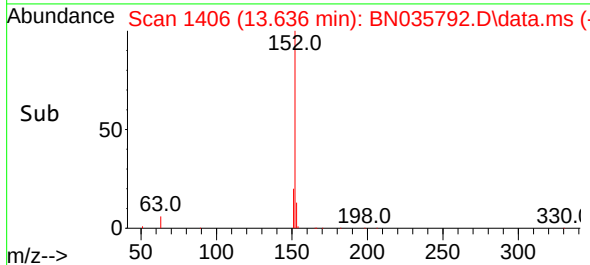
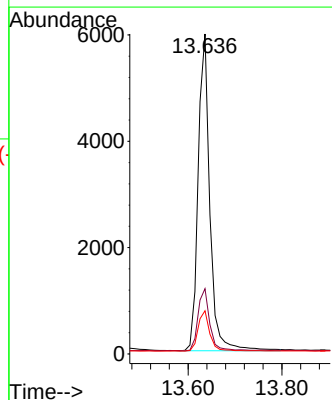
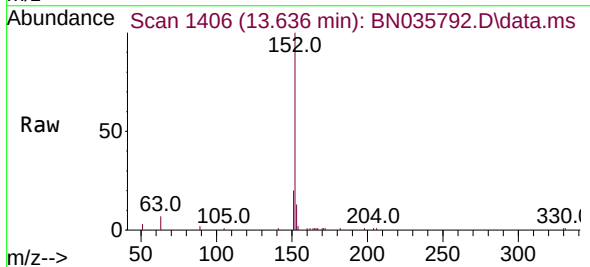
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

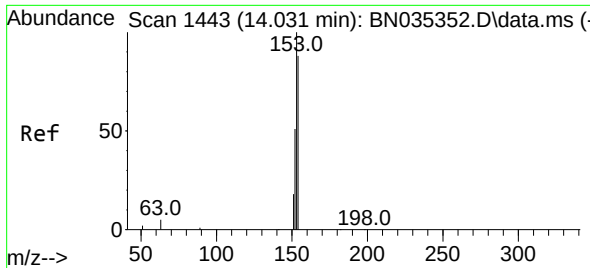
Tgt Ion:172 Resp: 10050
Ion Ratio Lower Upper
172 100
171 34.8 29.0 43.4
170 23.3 19.8 29.8



#16
Acenaphthylene
Concen: 0.371 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 10309
Ion Ratio Lower Upper
152 100
151 19.6 16.2 24.2
153 12.9 10.4 15.6

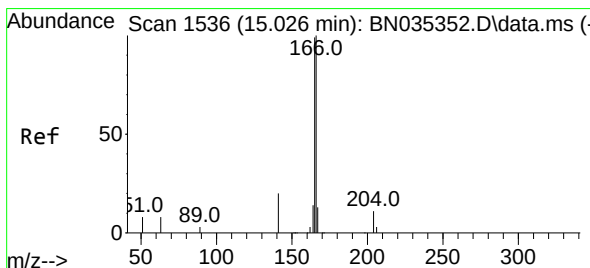
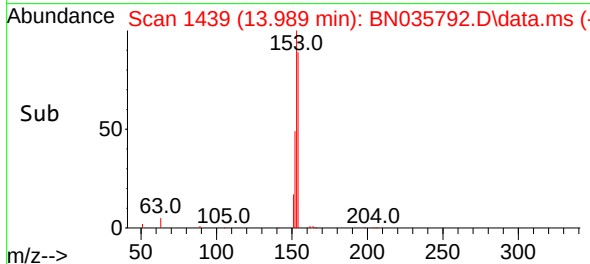
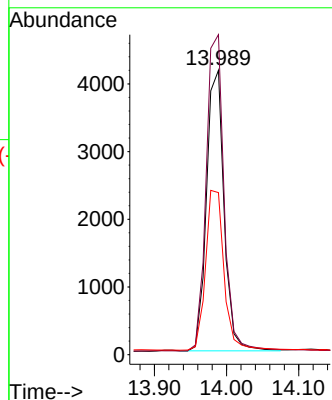
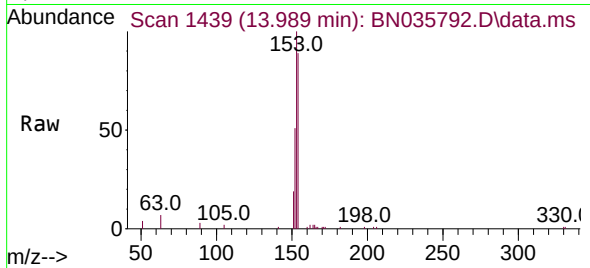




#17
Acenaphthene
Concen: 0.382 ng
RT: 13.989 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

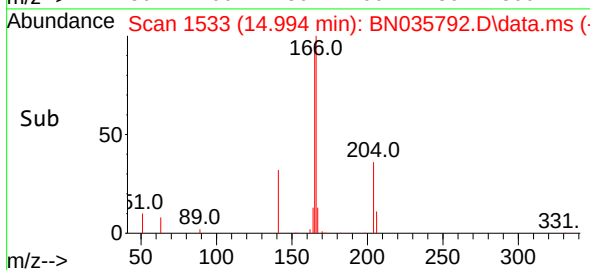
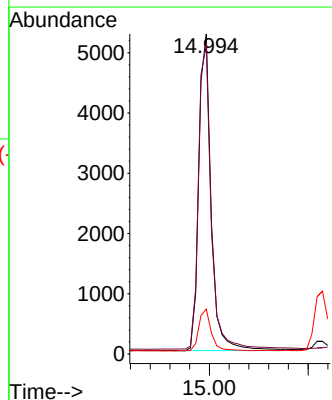
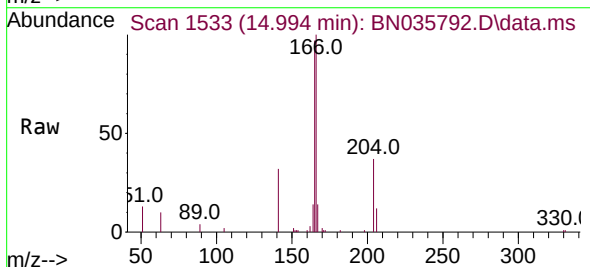
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

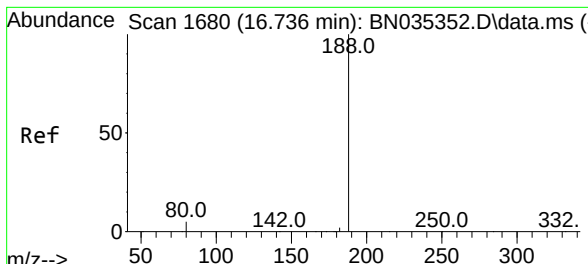
Tgt Ion:154 Resp: 7045
Ion Ratio Lower Upper
154 100
153 115.6 92.6 139.0
152 60.1 49.0 73.6



#18
Fluorene
Concen: 0.346 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:166 Resp: 9147
Ion Ratio Lower Upper
166 100
165 99.0 79.7 119.5
167 13.4 10.8 16.2

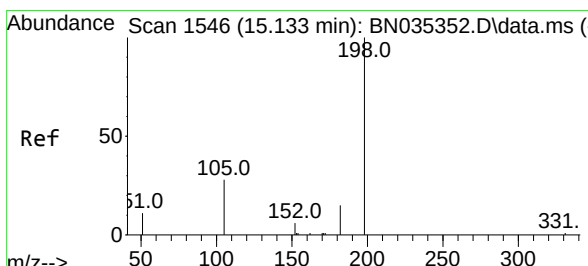
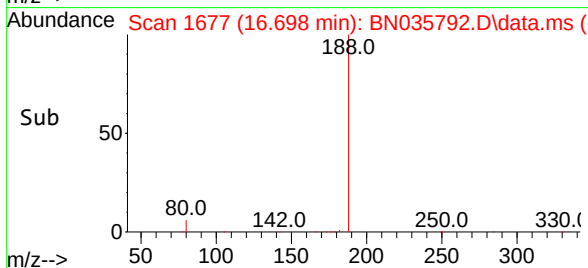
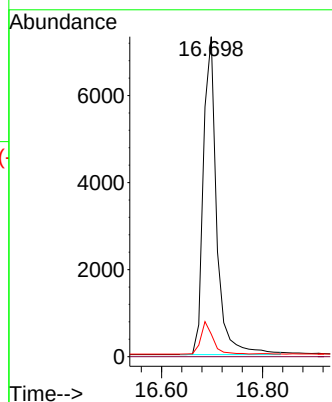
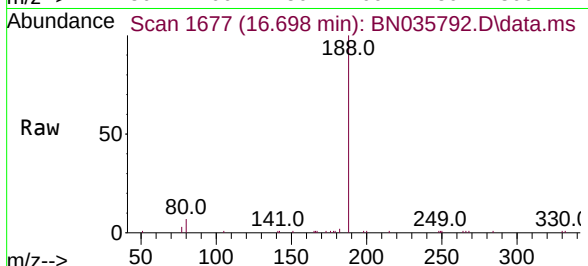




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.698 min Scan# 1677
 Delta R.T. 0.000 min
 Lab File: BN035792.D
 Acq: 23 Dec 2024 19:51

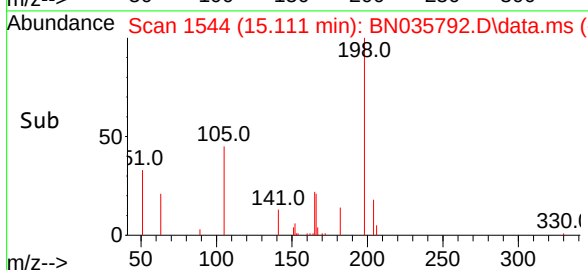
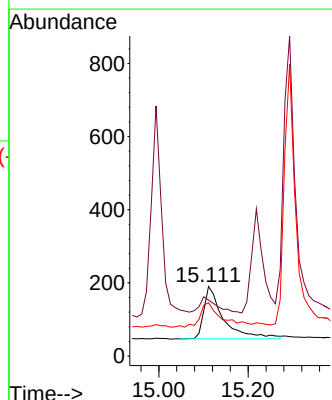
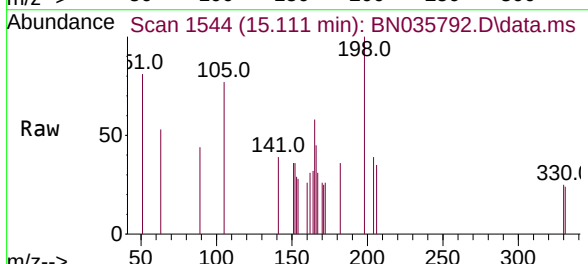
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

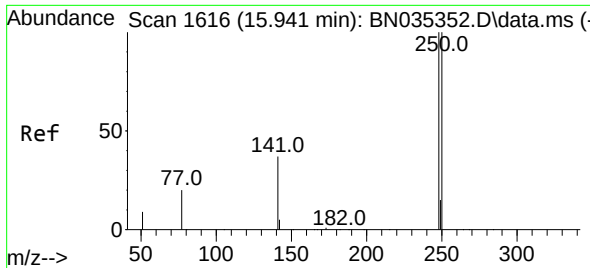
Tgt Ion:188	Resp:	13445
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	7.1	6.8



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.334 ng
 RT: 15.111 min Scan# 1544
 Delta R.T. -0.011 min
 Lab File: BN035792.D
 Acq: 23 Dec 2024 19:51

Tgt Ion:198	Resp:	441
Ion Ratio	Lower	Upper
198	100	
51	80.5	46.5
105	76.8	67.9

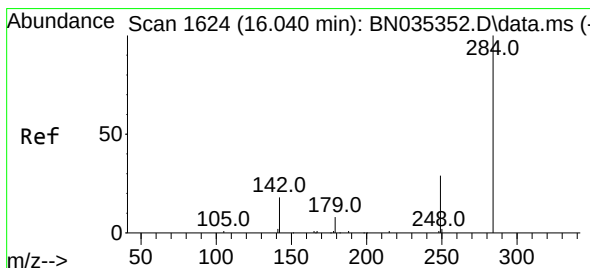
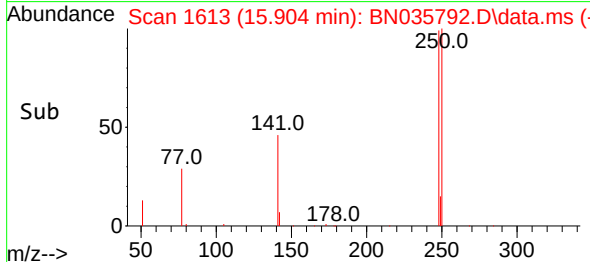
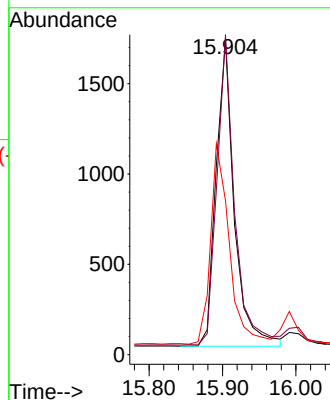
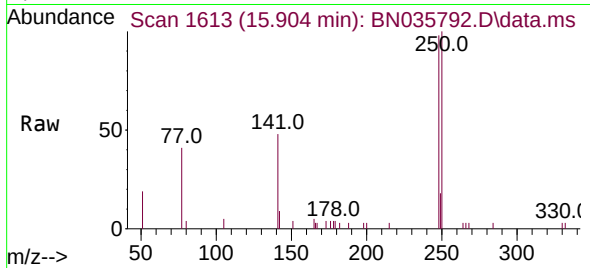




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

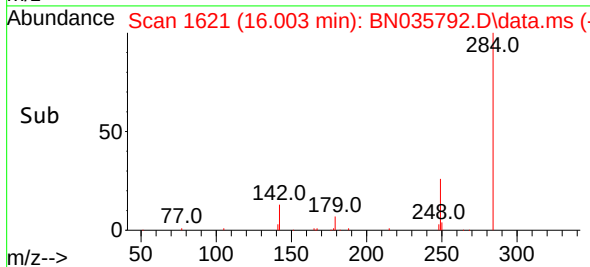
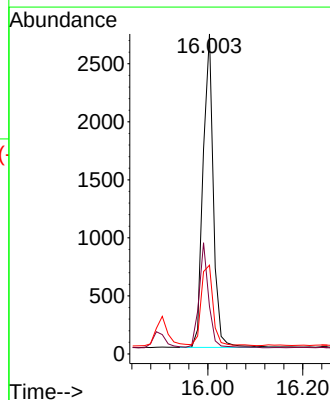
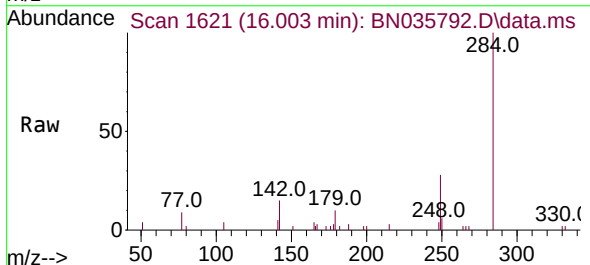
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

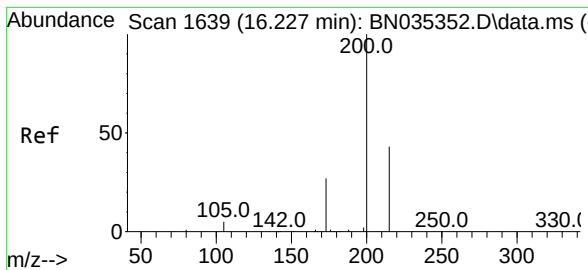
Tgt Ion:248 Resp: 2928
Ion Ratio Lower Upper
248 100
250 101.5 80.6 120.8
141 48.9 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.442 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:284 Resp: 4080
Ion Ratio Lower Upper
284 100
142 31.0 26.7 40.1
249 30.0 24.6 36.8





#23

Atrazine

Concen: 0.366 ng

RT: 16.202 min Scan# 1637

Delta R.T. 0.000 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

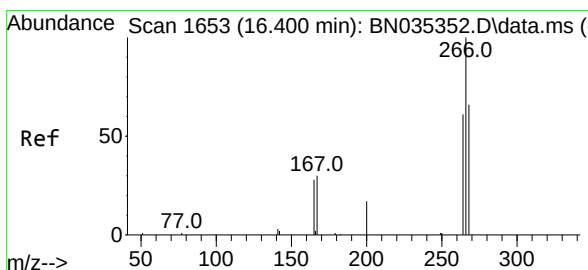
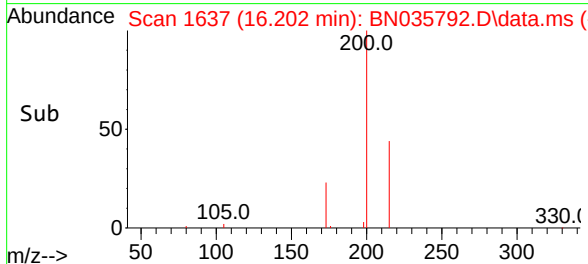
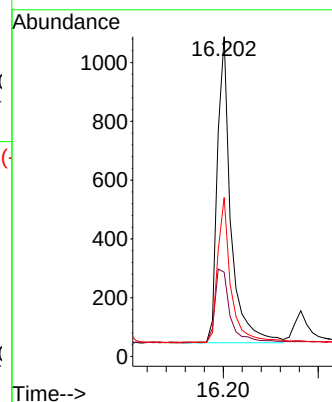
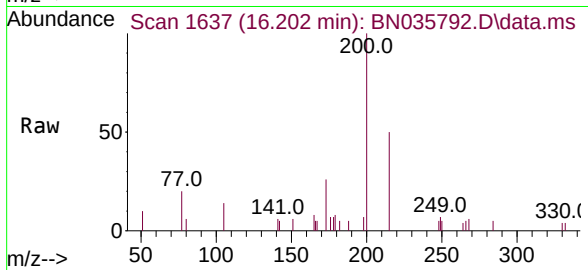
Tgt Ion:200 Resp: 2050

Ion Ratio Lower Upper

200 100

173 26.4 24.1 36.1

215 49.7 36.9 55.3



#24

Pentachlorophenol

Concen: 0.321 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.012 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

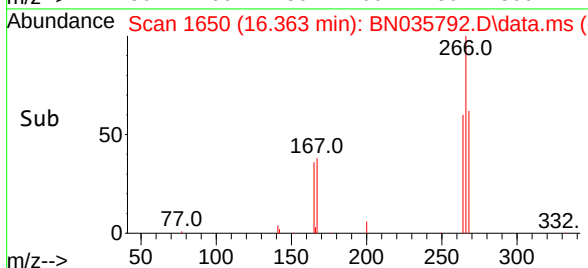
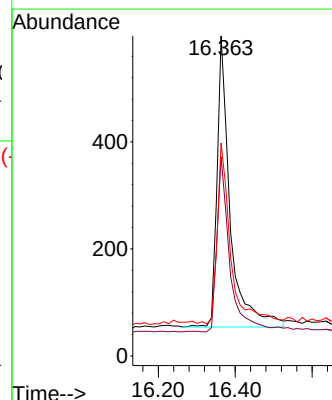
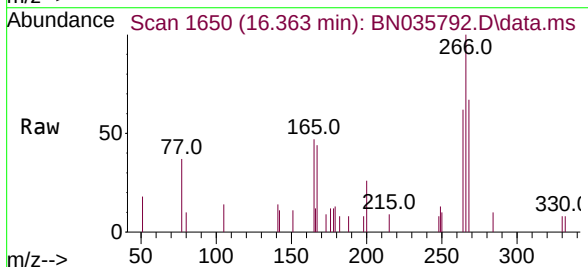
Tgt Ion:266 Resp: 1288

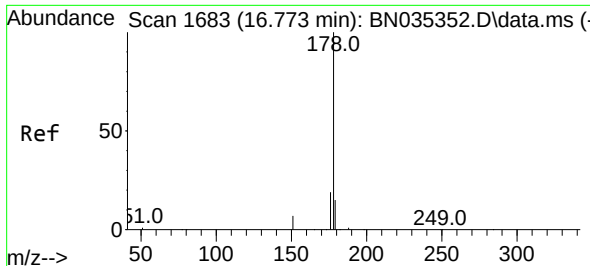
Ion Ratio Lower Upper

266 100

264 59.5 42.3 63.5

268 62.8 43.3 64.9

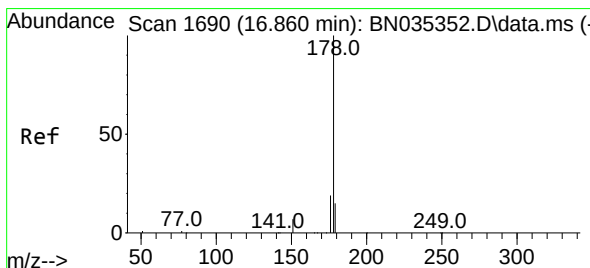
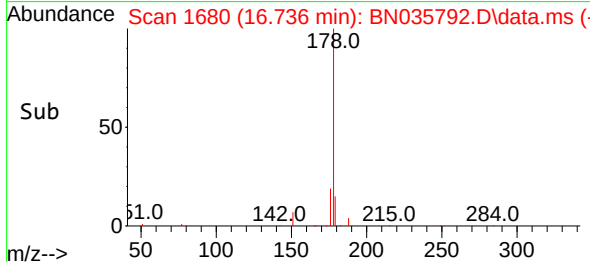
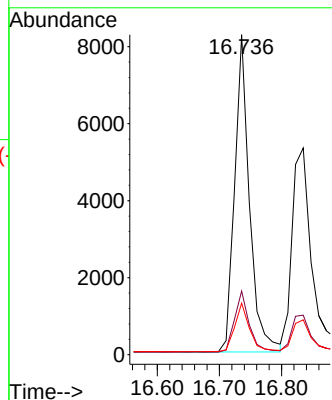
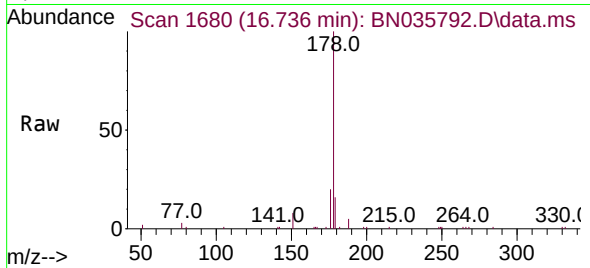




#25
Phenanthrene
Concen: 0.370 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

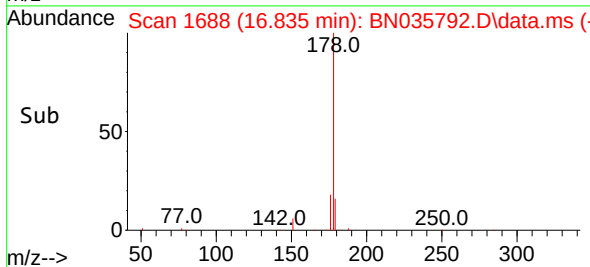
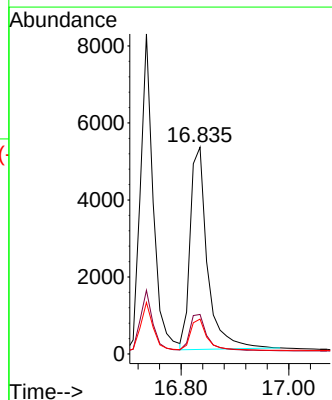
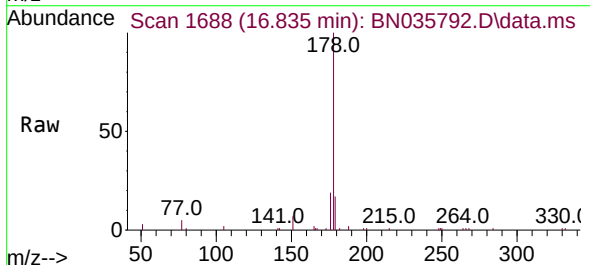
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

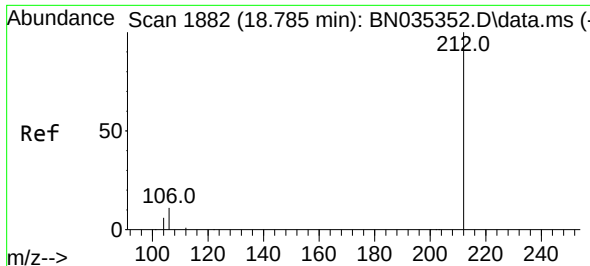
Tgt Ion:178 Resp: 13655
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.5 12.3 18.5



#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:178 Resp: 11693
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.4 12.6 18.8

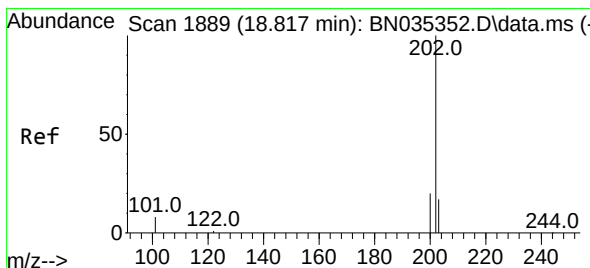
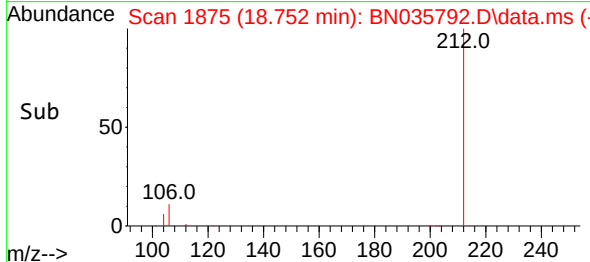
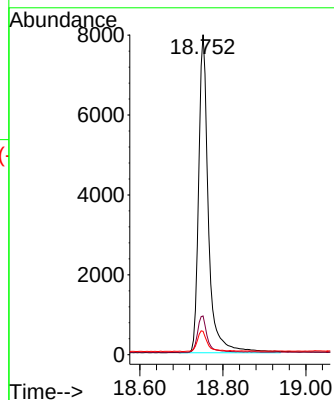
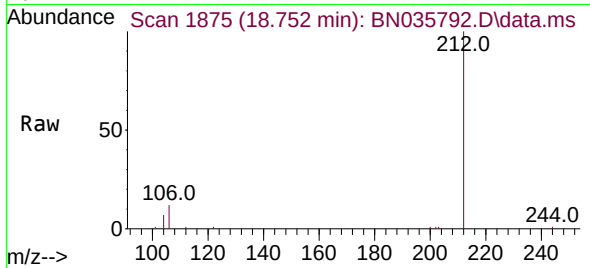




#27
Fluoranthene-d10
Concen: 0.343 ng
RT: 18.752 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

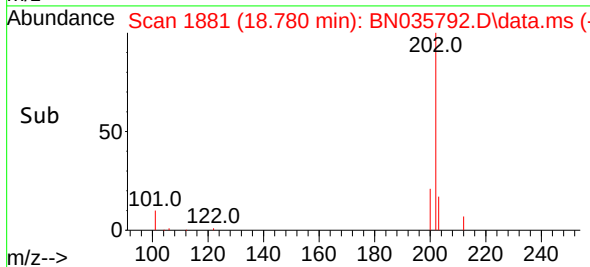
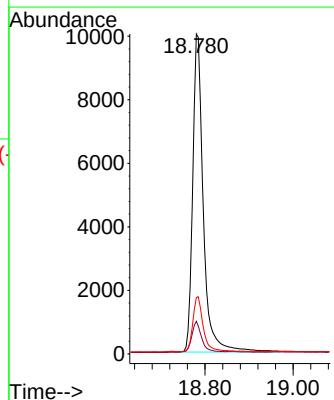
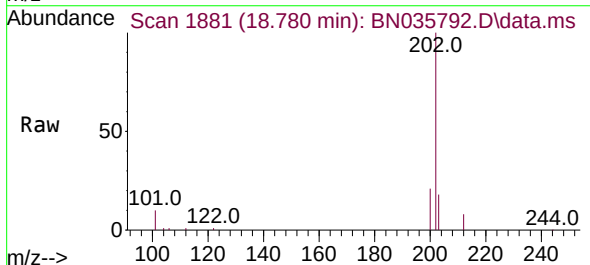
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

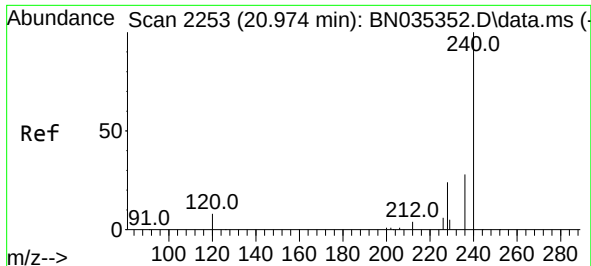
Tgt Ion:212 Resp: 13067
Ion Ratio Lower Upper
212 100
106 11.4 9.2 13.8
104 6.6 5.3 7.9



#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 16797
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

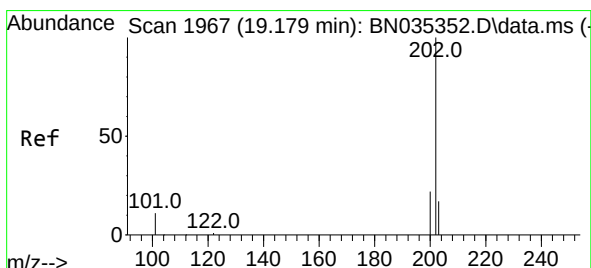
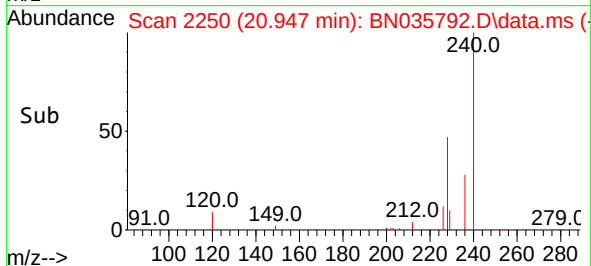
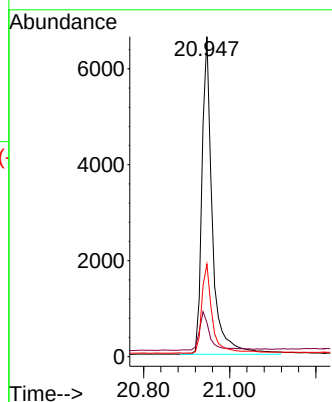
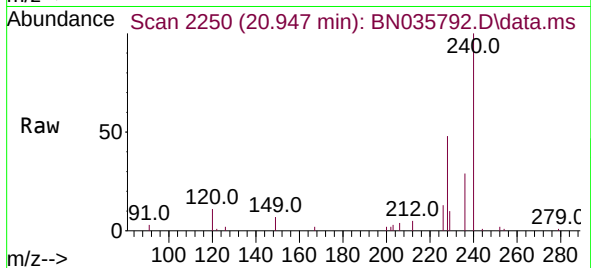
Tgt Ion:240 Resp: 11173

Ion Ratio Lower Upper

240 100

120 10.7 7.9 11.9

236 28.9 22.9 34.3



#30

Pyrene

Concen: 0.416 ng

RT: 19.152 min Scan# 1961

Delta R.T. -0.009 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

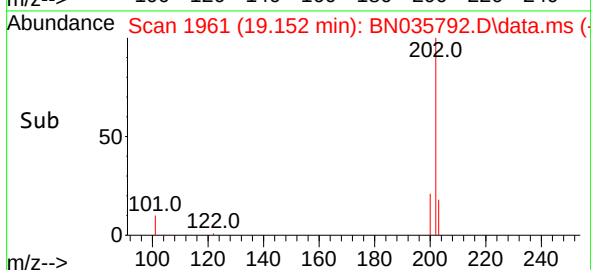
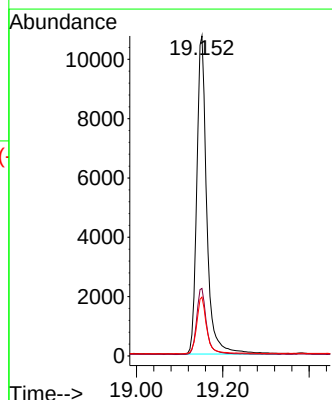
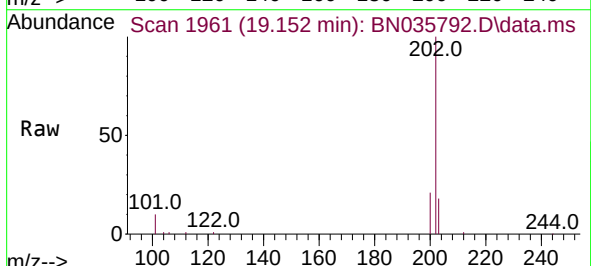
Tgt Ion:202 Resp: 17165

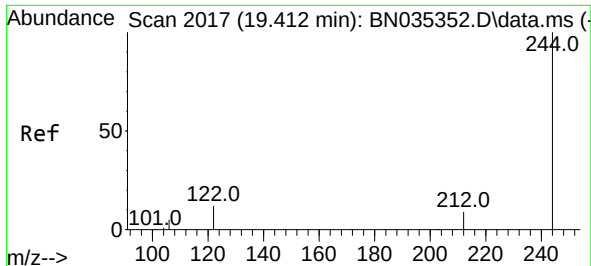
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

203 17.8 14.3 21.5

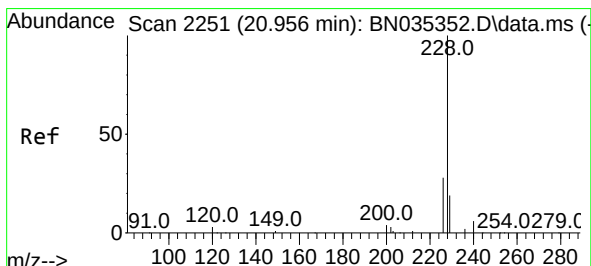
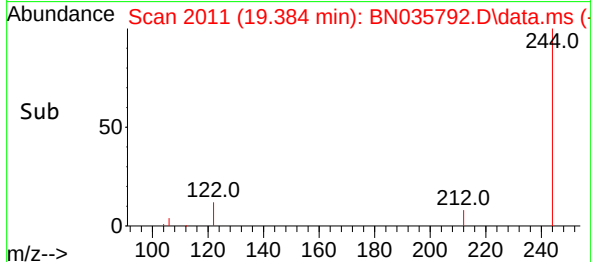
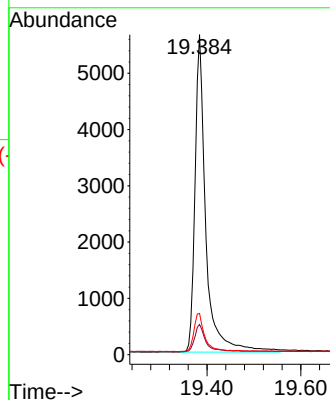
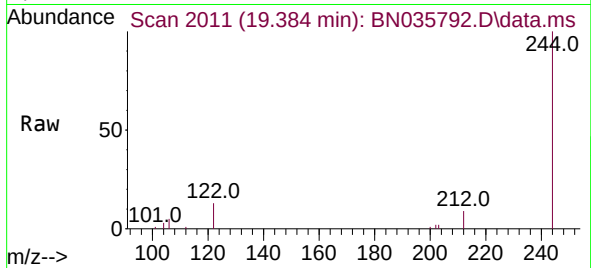




#31
 Terphenyl-d14
 Concen: 0.409 ng
 RT: 19.384 min Scan# 20
 Delta R.T. -0.005 min
 Lab File: BN035792.D
 Acq: 23 Dec 2024 19:51

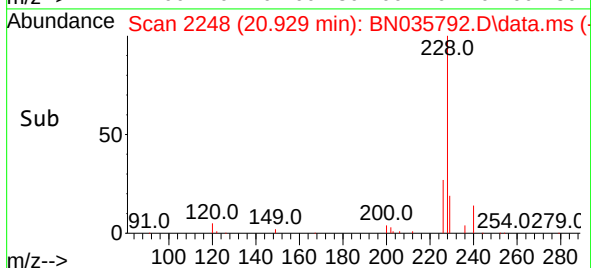
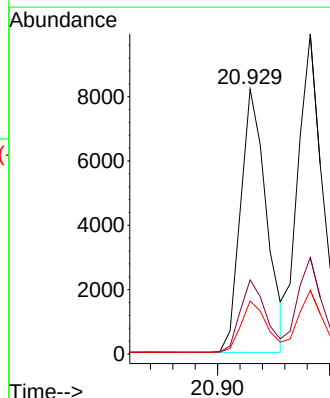
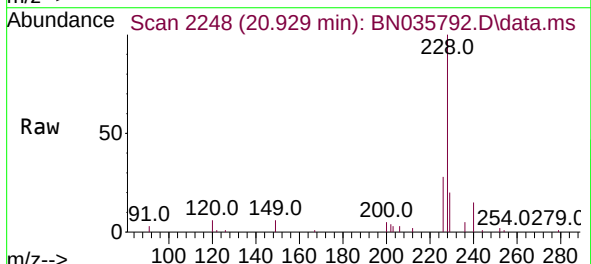
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

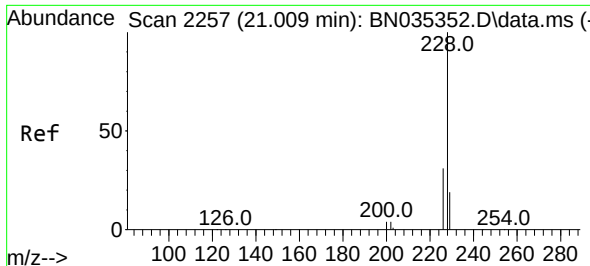
Tgt Ion:244	Resp:	9007
Ion Ratio	Lower	Upper
244	100	
212	9.4	8.1 12.1
122	12.9	10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.336 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. -0.009 min
 Lab File: BN035792.D
 Acq: 23 Dec 2024 19:51

Tgt Ion:228	Resp:	13119
Ion Ratio	Lower	Upper
228	100	
226	28.0	22.5 33.7
229	20.0	15.8 23.8

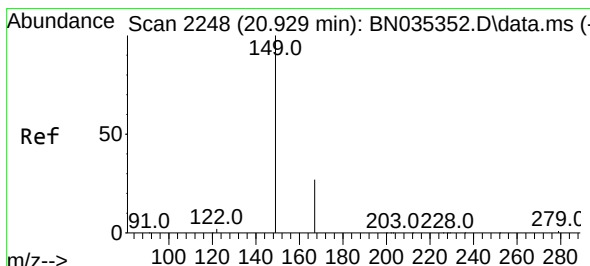
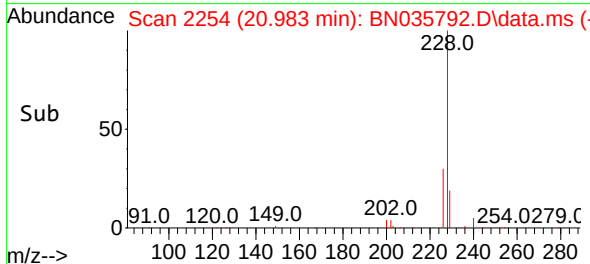
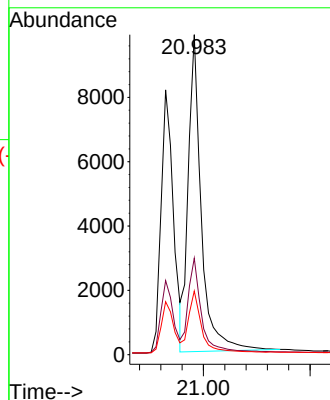
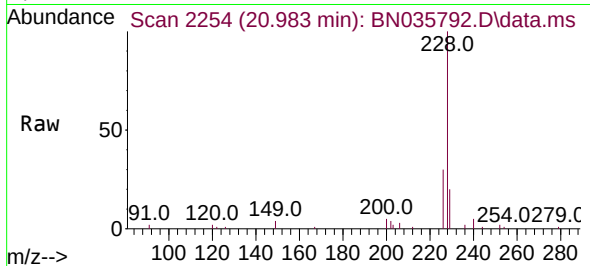




#33
Chrysene
Concen: 0.415 ng
RT: 20.983 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

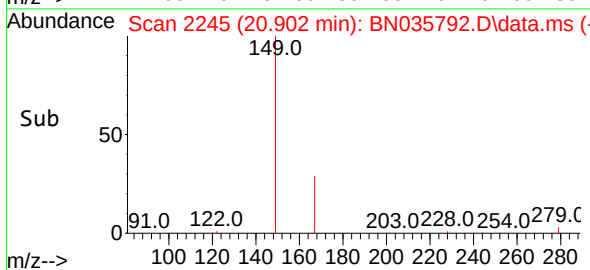
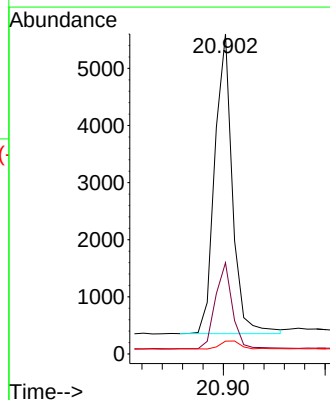
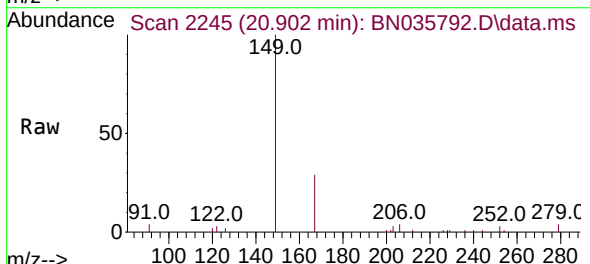
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

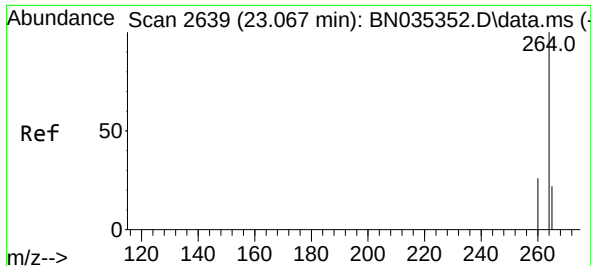
Tgt Ion:228	Resp:	16717
Ion Ratio	Lower	Upper
228	100	
226	30.1	24.6 37.0
229	19.9	15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.408 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

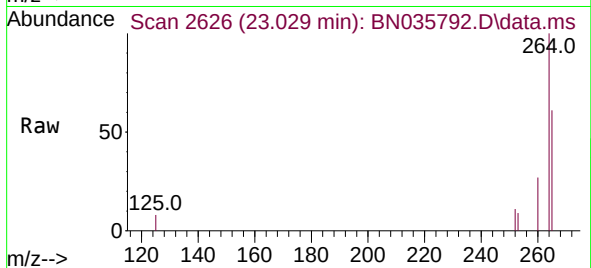
Tgt Ion:149	Resp:	6294
Ion Ratio	Lower	Upper
149	100	
167	27.8	22.2 33.4
279	3.3	2.7 4.1



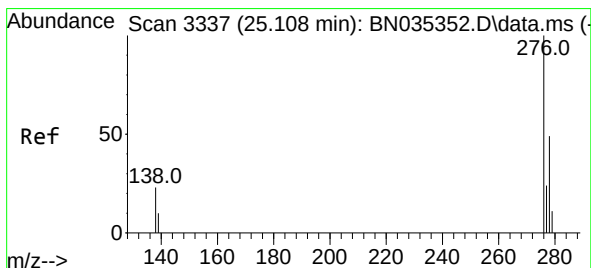
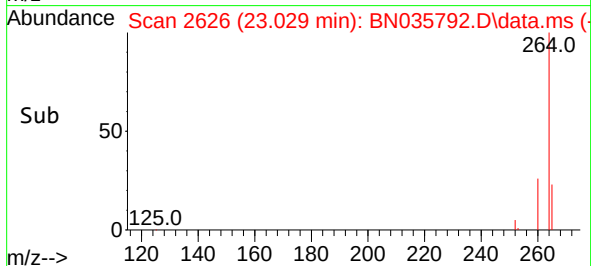
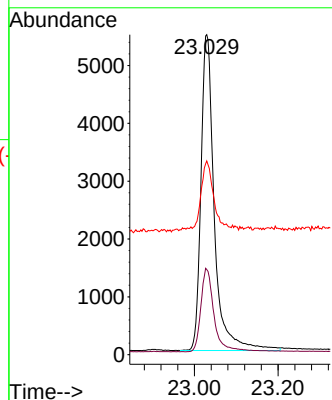


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 20
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

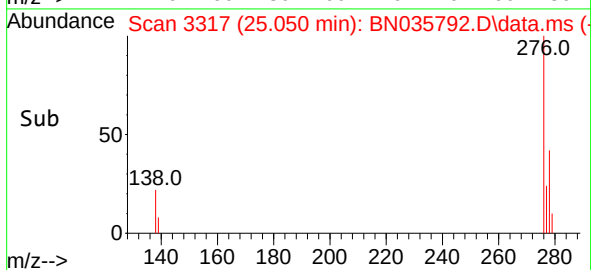
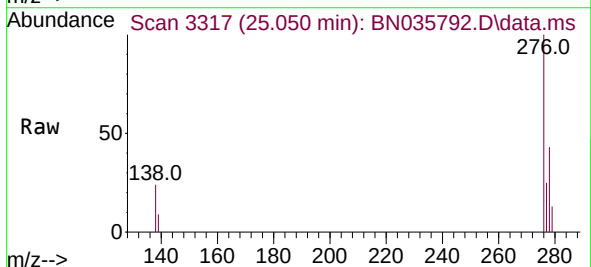
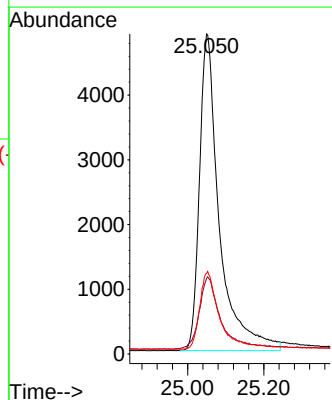


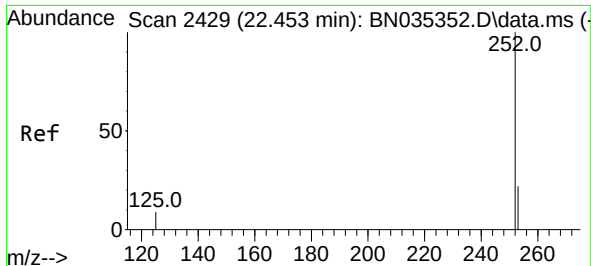
Tgt Ion:264 Resp: 12122
Ion Ratio Lower Upper
264 100
260 26.6 21.4 32.2
265 60.5 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:276 Resp: 17740
Ion Ratio Lower Upper
276 100
138 23.9 19.4 29.0
277 24.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.539 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

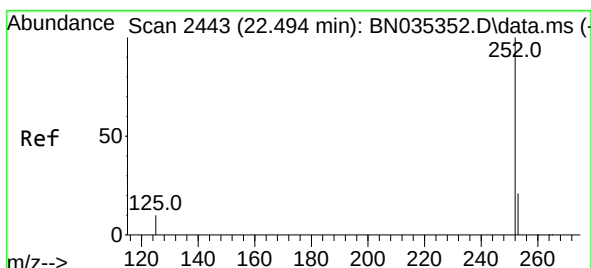
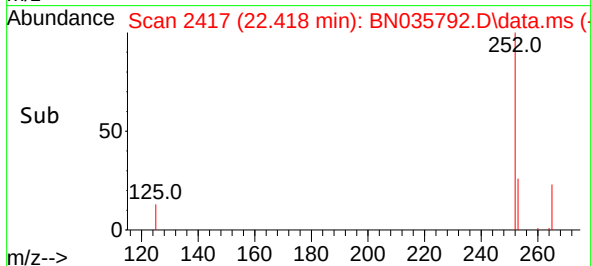
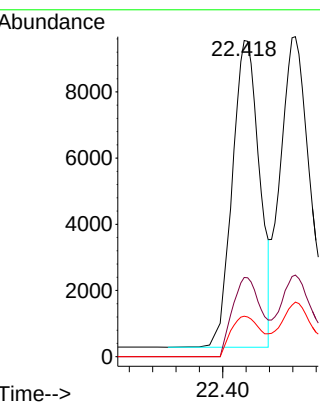
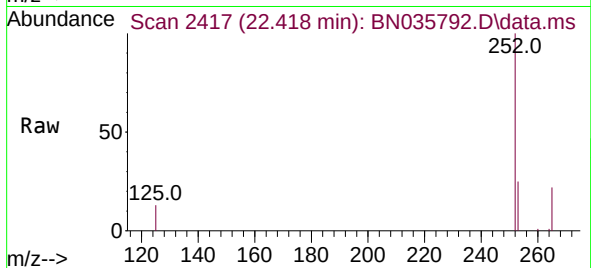
Tgt Ion:252 Resp: 23904

Ion Ratio Lower Upper

252 100

253 25.0 19.6 29.4

125 12.8 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.548 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.053 min

Lab File: BN035792.D

Acq: 23 Dec 2024 19:51

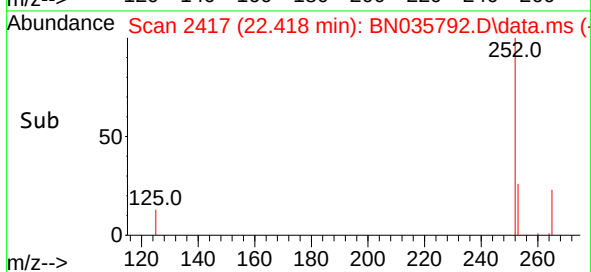
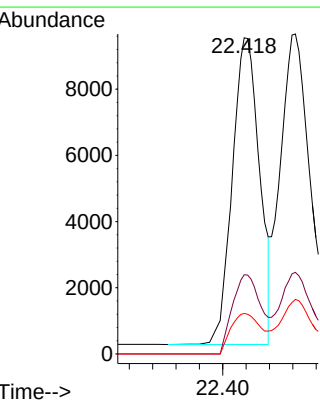
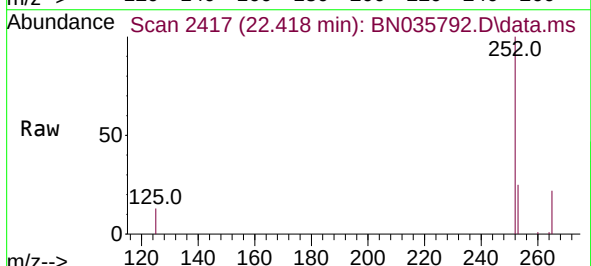
Tgt Ion:252 Resp: 23904

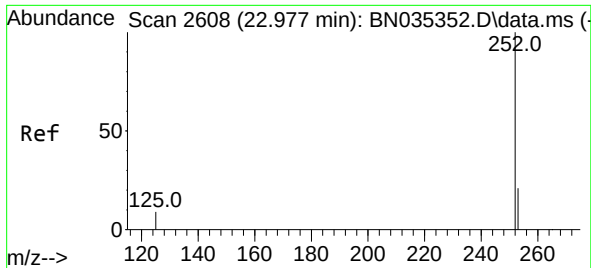
Ion Ratio Lower Upper

252 100

253 25.0 19.5 29.3

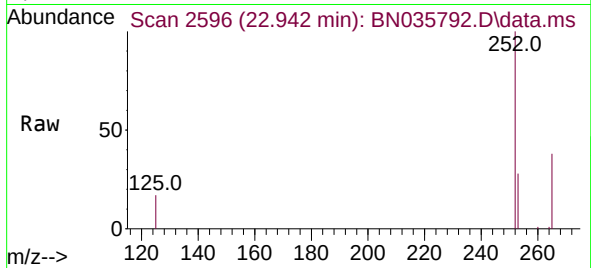
125 12.8 10.2 15.4



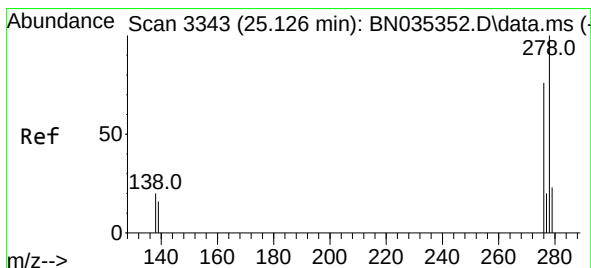
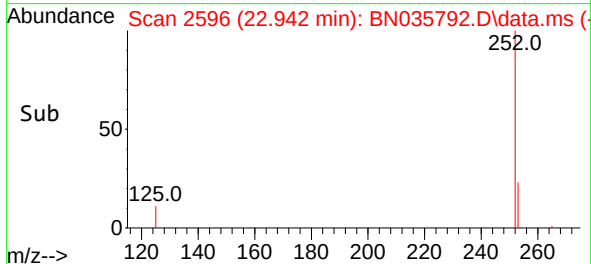
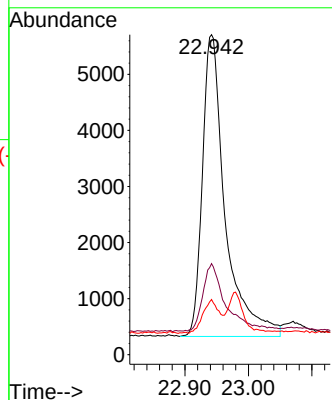


#39
Benzo(a)pyrene
Concen: 0.366 ng
RT: 22.942 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

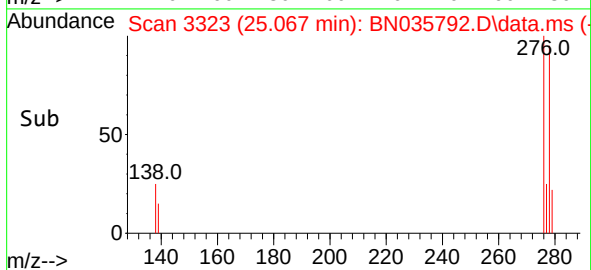
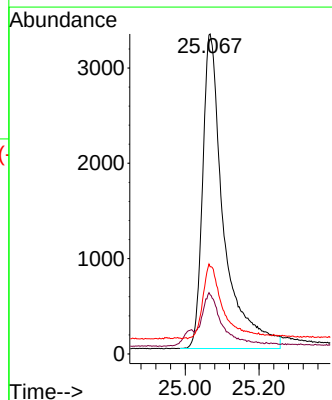
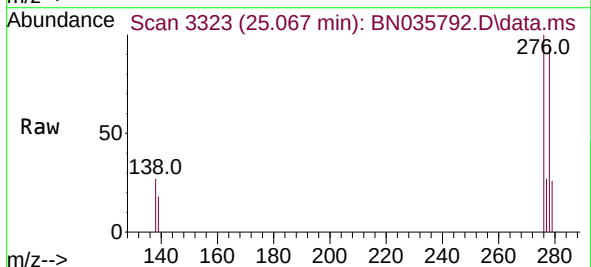


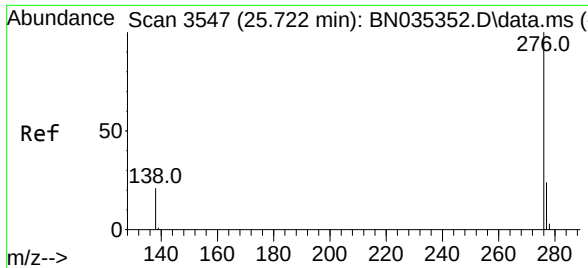
Tgt Ion:252 Resp: 13375
Ion Ratio Lower Upper
252 100
253 28.5 20.2 30.4
125 17.2 10.9 16.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

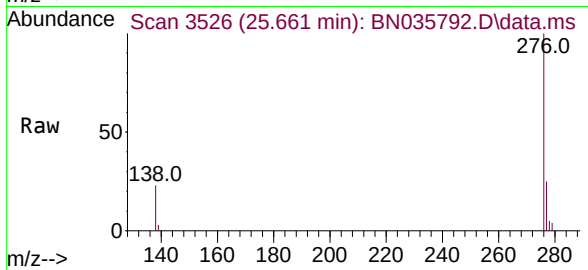
Tgt Ion:278 Resp: 13081
Ion Ratio Lower Upper
278 100
139 18.5 14.2 21.4
279 27.2 20.5 30.7



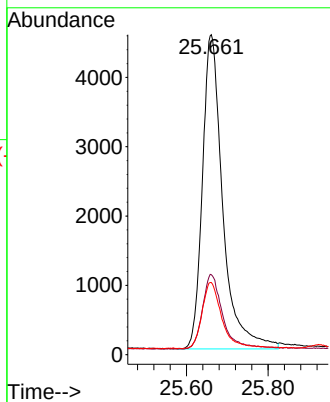
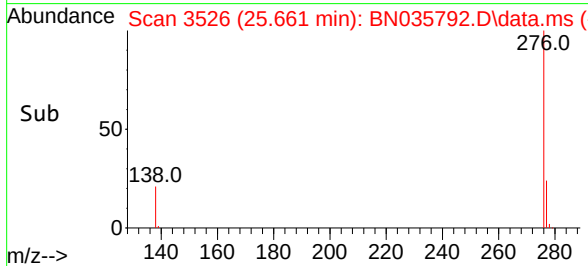


#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.661 min Scan# 31
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:	276	Resp:	15725
Ion Ratio	Lower	Upper	
276	100		
277	25.0	19.9	29.9
138	22.5	17.8	26.8



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

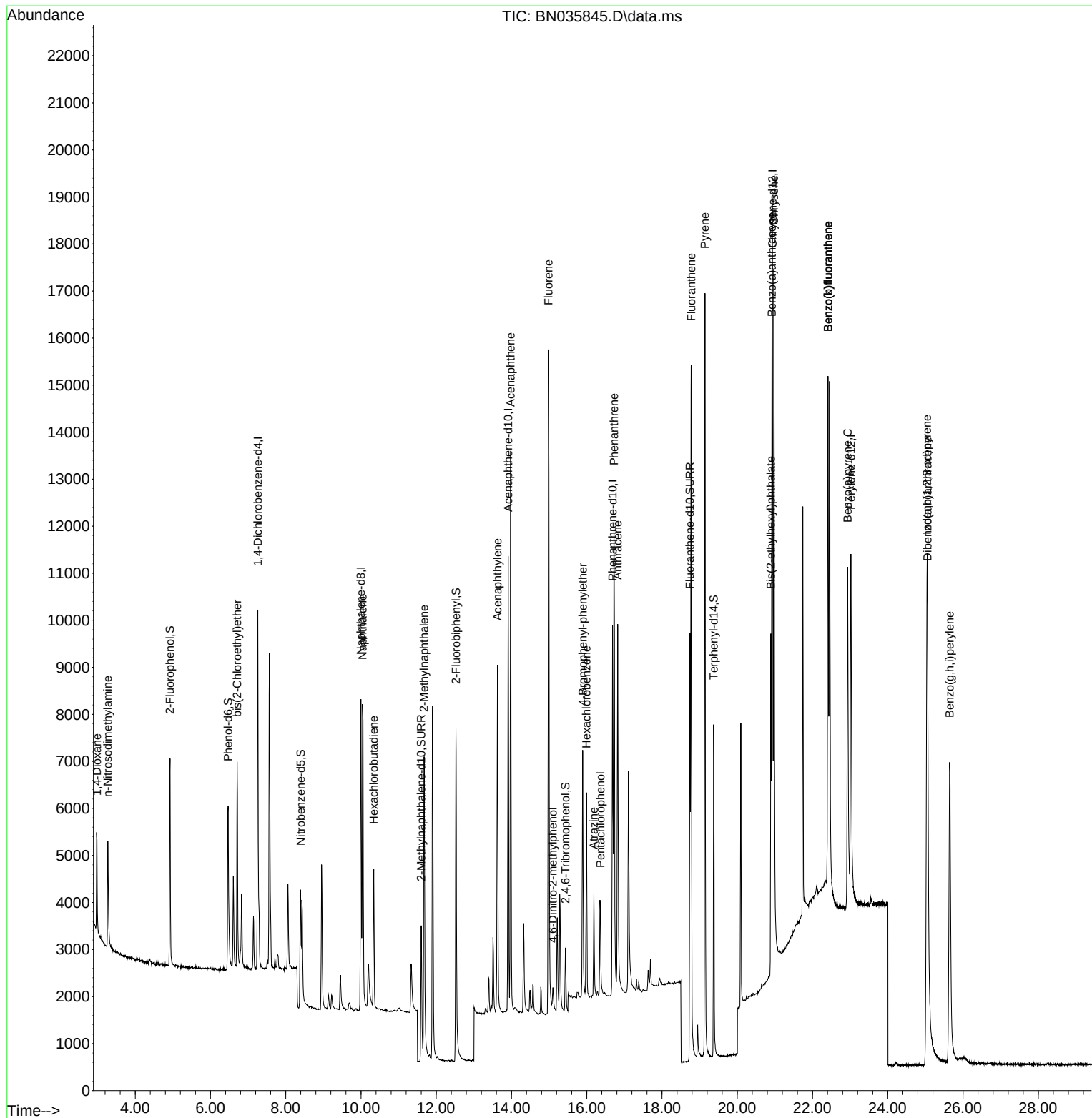
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng	#-0.01
29) Chrysene-d12	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						
2) 1,4-Dioxane	2.982	88	1520	0.423	ng	97
3) n-Nitrosodimethylamine	3.270	42	1223	0.409	ng	# 82
6) bis(2-Chloroethyl)ether	6.708	93	3599	0.379	ng	99
9) Naphthalene	10.041	128	9440	0.384	ng	100
10) Hexachlorobutadiene	10.340	225	2352	0.415	ng	# 99
12) 2-Methylnaphthalene	11.676	142	5939	0.337	ng	98
16) Acenaphthylene	13.625	152	8340	0.369	ng	100
17) Acenaphthene	13.978	154	5695	0.379	ng	99
18) Fluorene	14.983	166	7523	0.350	ng	99
20) 4,6-Dinitro-2-methylph...	15.100	198	526	0.475	ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	2443	0.371	ng	# 87
22) Hexachlorobenzene	15.991	284	3482	0.450	ng	95
23) Atrazine	16.189	200	1843	0.393	ng	97
24) Pentachlorophenol	16.363	266	1383	0.411	ng	87
25) Phenanthrene	16.723	178	11602	0.375	ng	100
26) Anthracene	16.822	178	10005	0.358	ng	100
28) Fluoranthene	18.775	202	14489	0.347	ng	98
30) Pyrene	19.142	202	15278	0.417	ng	100
32) Benzo(a)anthracene	20.920	228	12798	0.368	ng	100
33) Chrysene	20.974	228	14214	0.397	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6282	0.458	ng	100
36) Indeno(1,2,3-cd)pyrene	25.041	276	15946	0.377	ng	97
37) Benzo(b)fluoranthene	22.412	252	19565	0.494	ng	# 96
38) Benzo(k)fluoranthene	22.412	252	19565	0.502	ng	96
39) Benzo(a)pyrene	22.933	252	12458	0.382	ng	# 92
40) Dibenzo(a,h)anthracene	25.058	278	12678	0.380	ng	96
41) Benzo(g,h,i)perylene	25.646	276	14614	0.419	ng	98

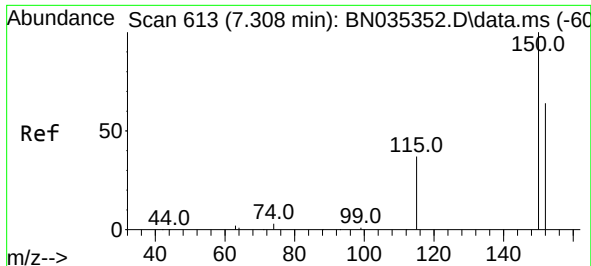
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



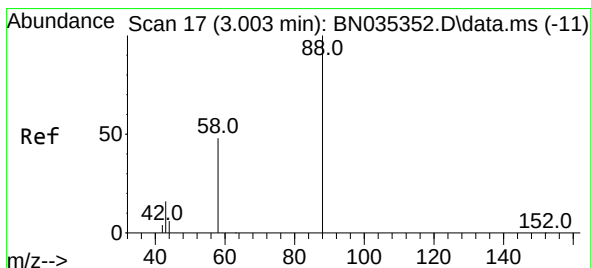
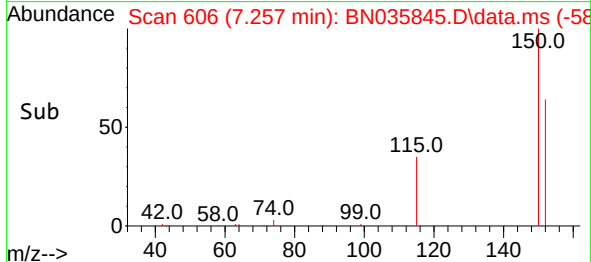
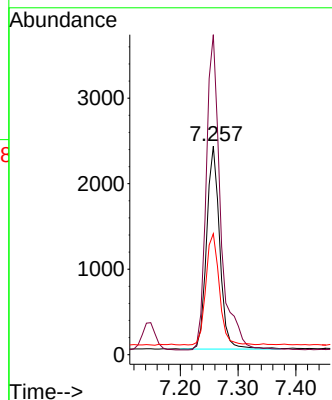
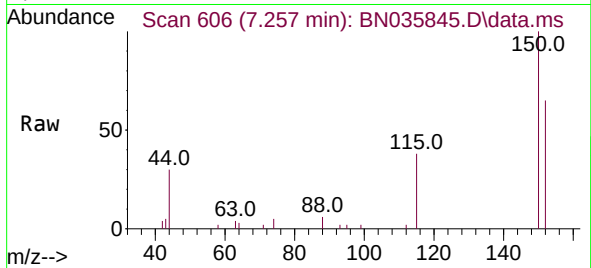


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3755

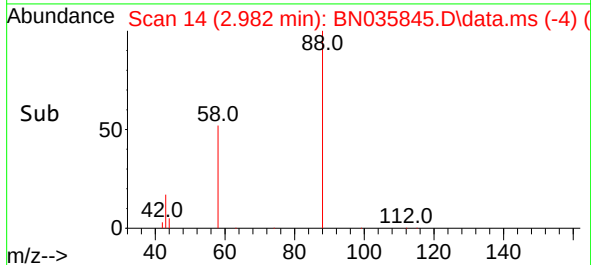
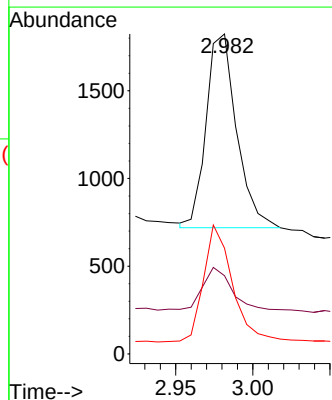
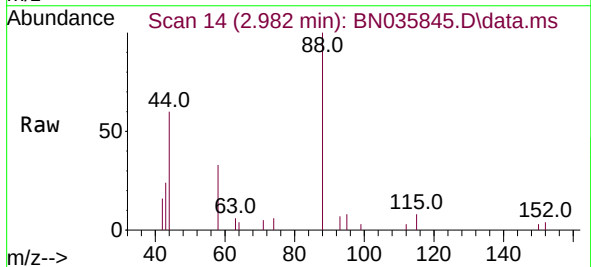
Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	58.0	49.6	74.4

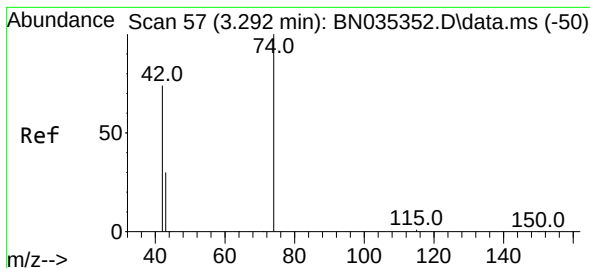


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520

Ion	Ratio	Lower	Upper
88	100		
43	19.9	17.2	25.8
58	57.5	44.5	66.7

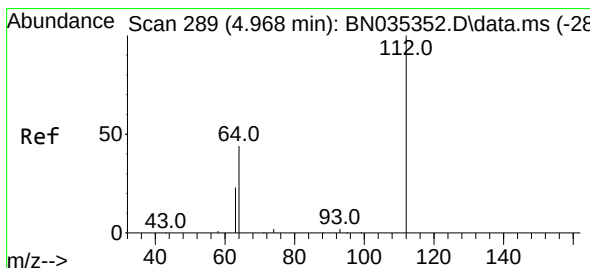
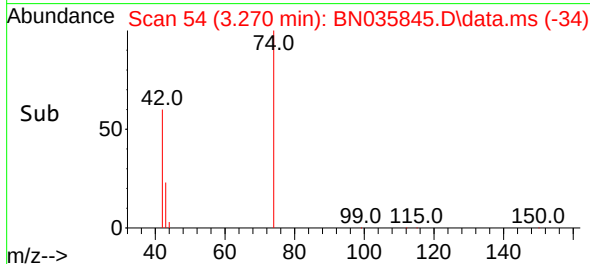
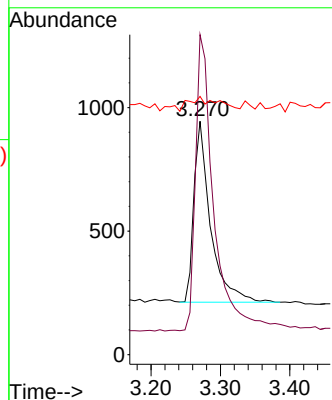
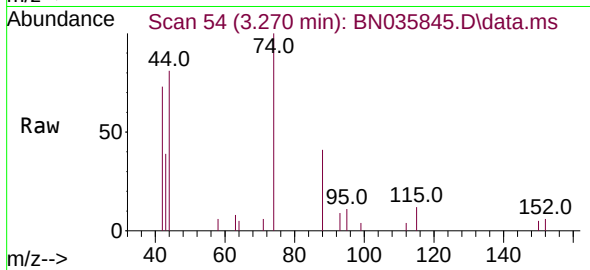




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

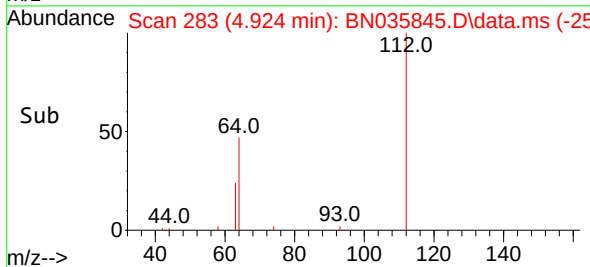
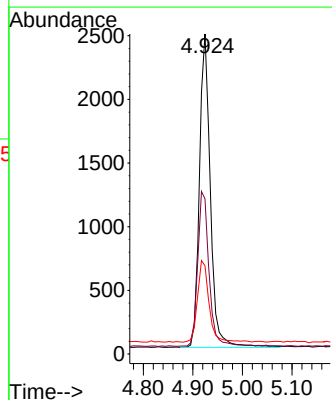
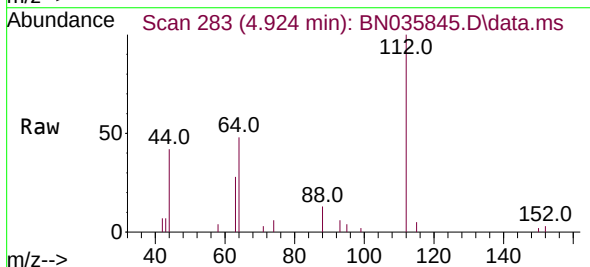
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

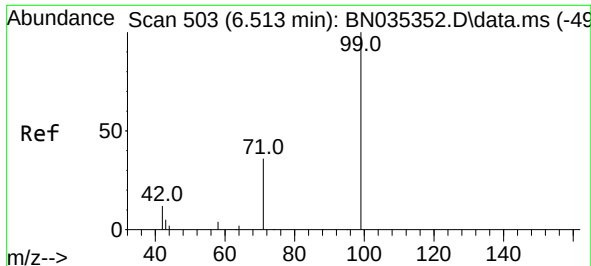
Tgt Ion: 42 Resp: 1223
Ion Ratio Lower Upper
42 100
74 179.4 124.9 187.3
44 16.9 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 112 Resp: 3777
Ion Ratio Lower Upper
112 100
64 51.0 39.8 59.8
63 27.5 21.0 31.6

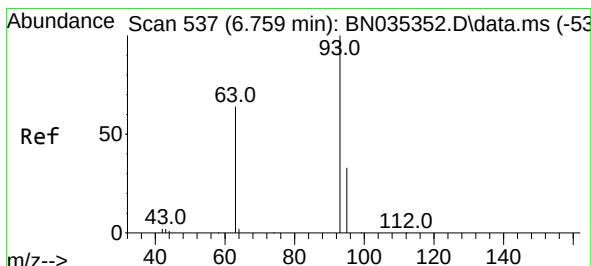
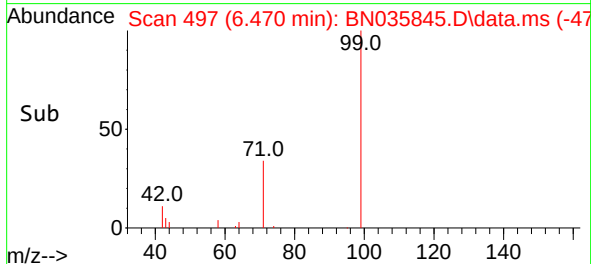
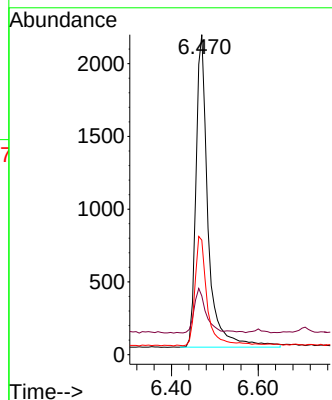
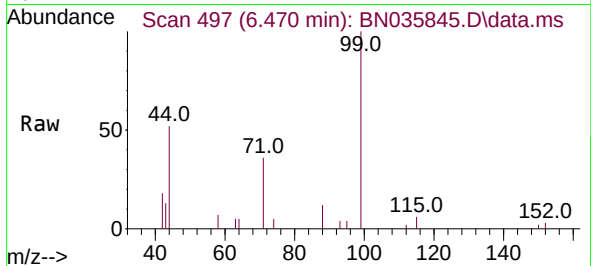




#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

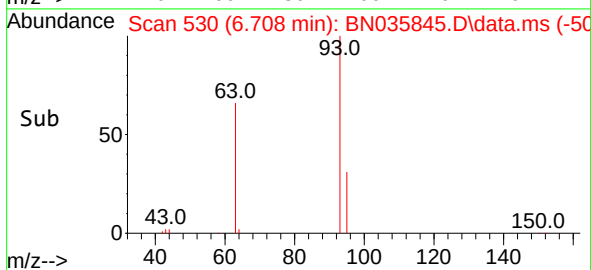
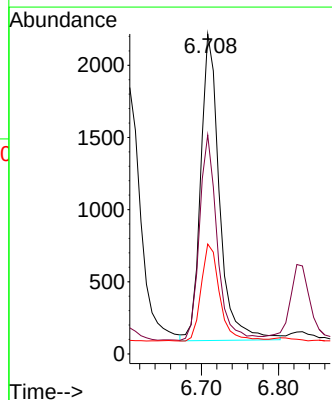
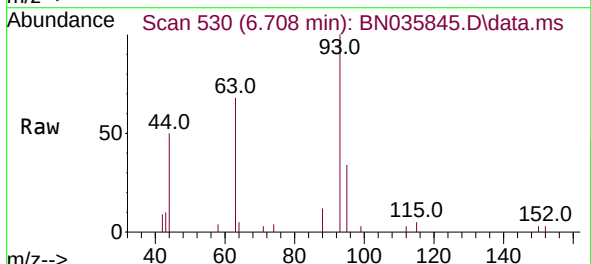
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

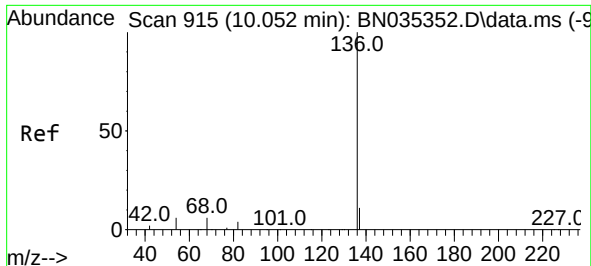
Tgt Ion:	99	Resp:	4175
Ion	Ratio	Lower	Upper
99	100		
42	14.0	11.4	17.2
71	35.3	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:	93	Resp:	3599
Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	31.3	25.7	38.5

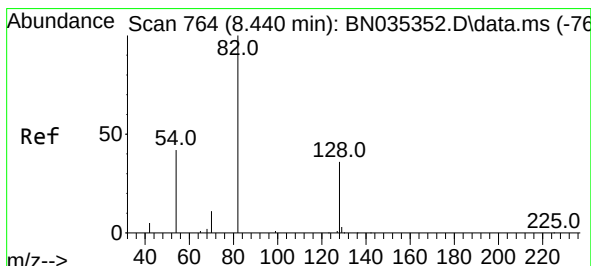
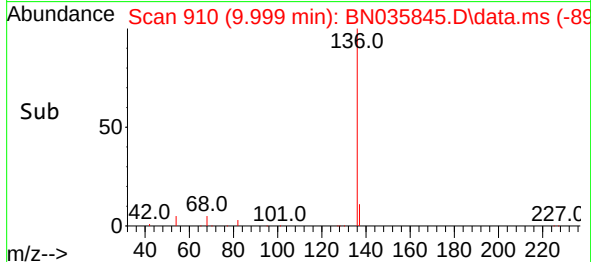
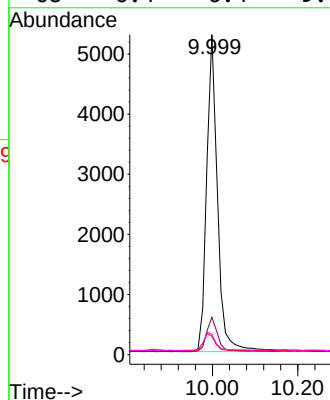
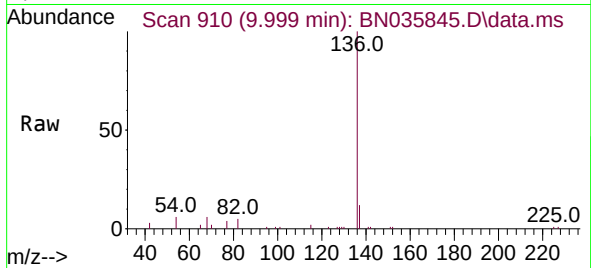




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

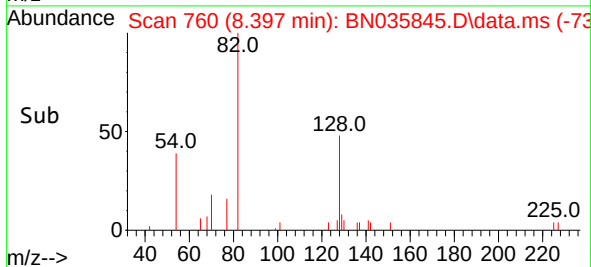
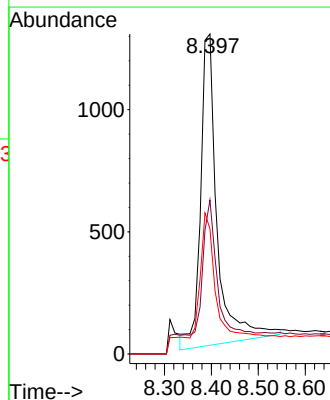
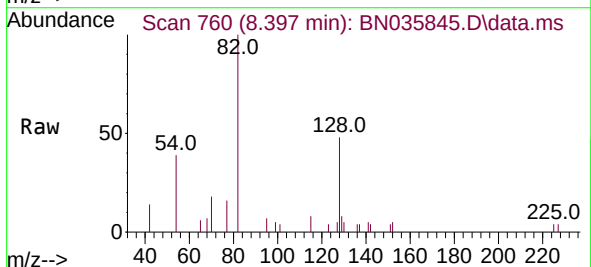
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

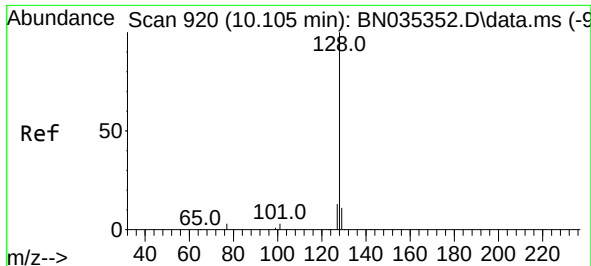
Tgt Ion:136	Resp:	9322
Ion Ratio	Lower	Upper
136	100	
137	11.6	10.2 15.2
54	5.8	6.1 9.1#
68	6.4	6.4 9.6#



#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82	Resp:	3148
Ion Ratio	Lower	Upper
82	100	
128	48.1	33.4 50.0
54	39.1	36.7 55.1

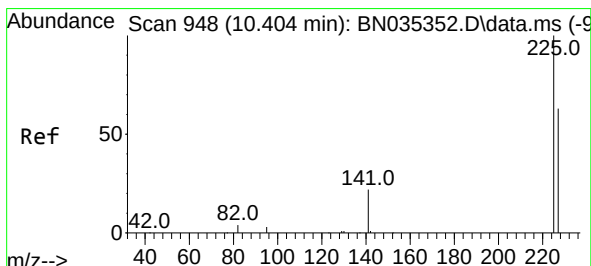
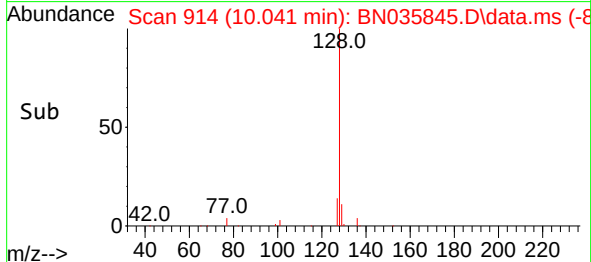
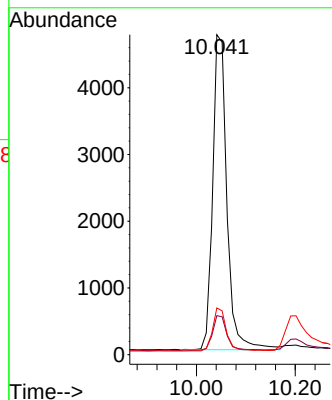
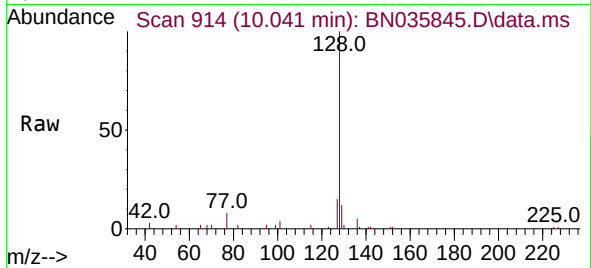




#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

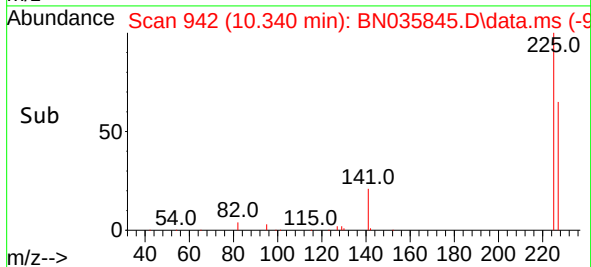
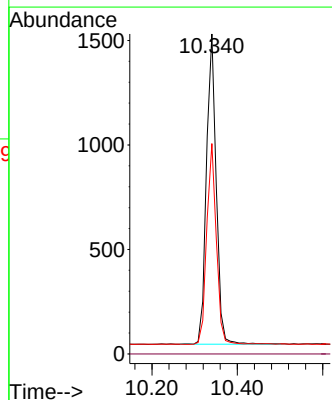
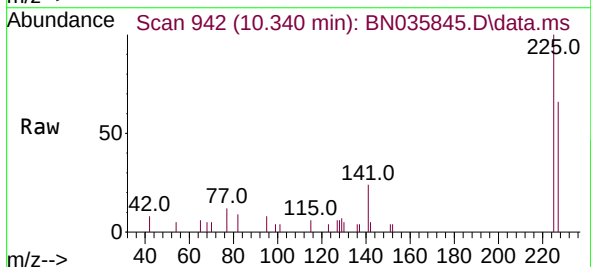
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

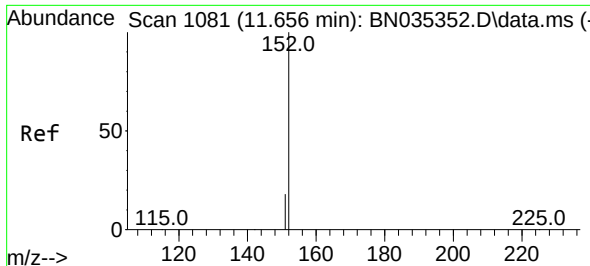
Tgt Ion:128 Resp: 9440
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.6 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9

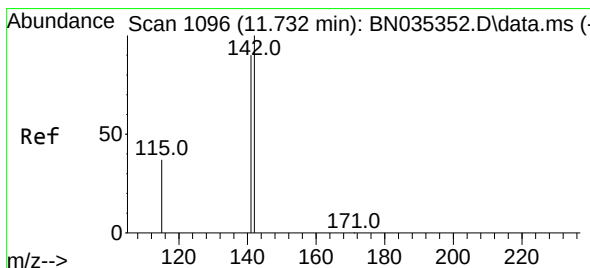
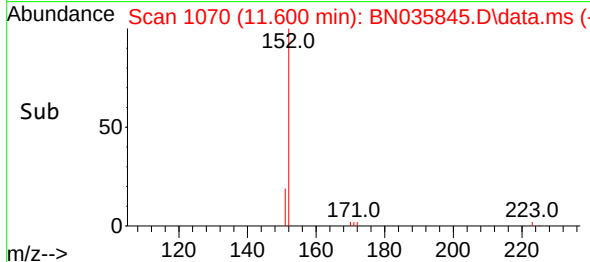
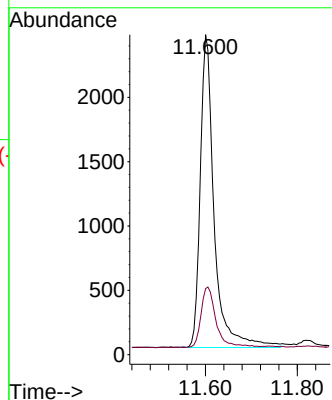
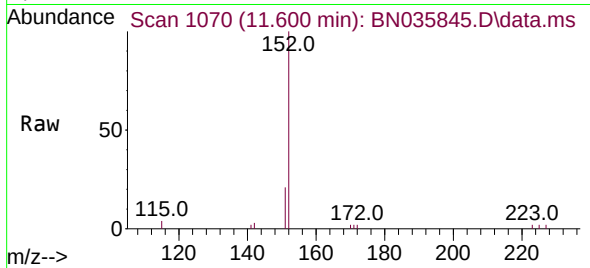




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1080
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

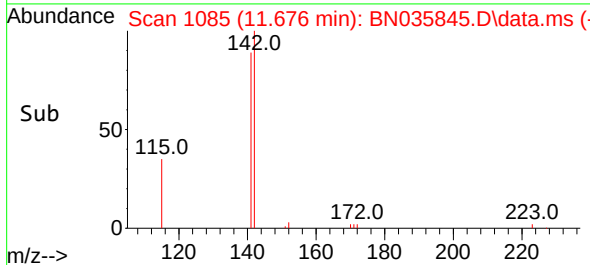
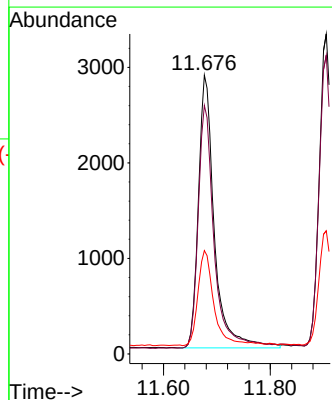
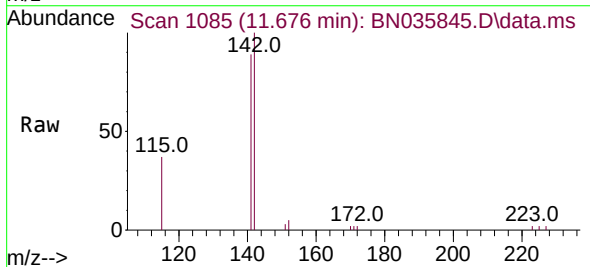
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

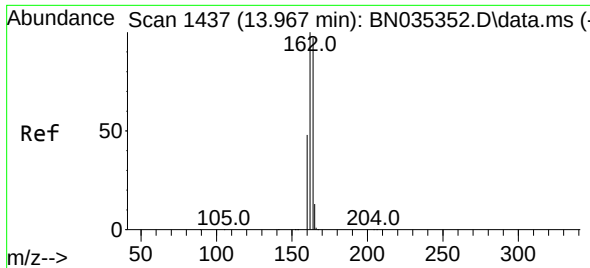
Tgt Ion:152 Resp: 5080
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939
Ion Ratio Lower Upper
142 100
141 89.1 72.2 108.4
115 37.1 31.4 47.0

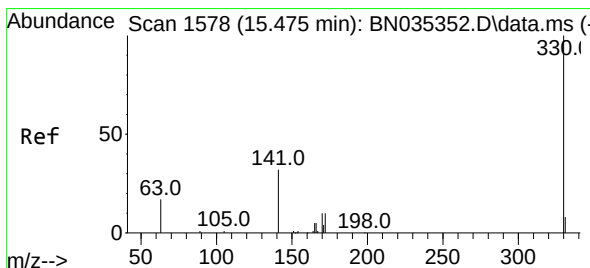
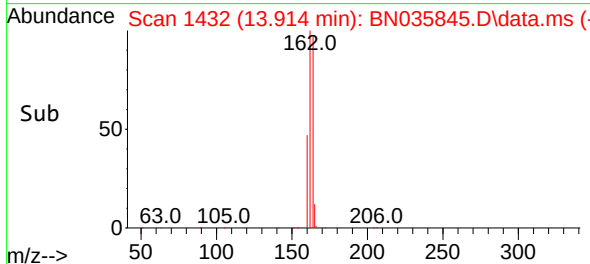
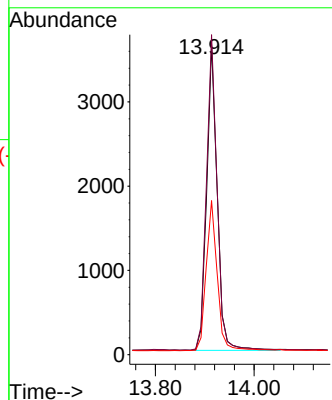
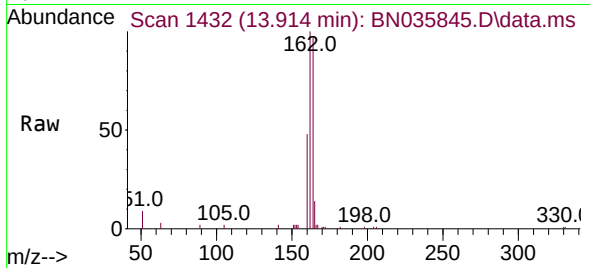




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

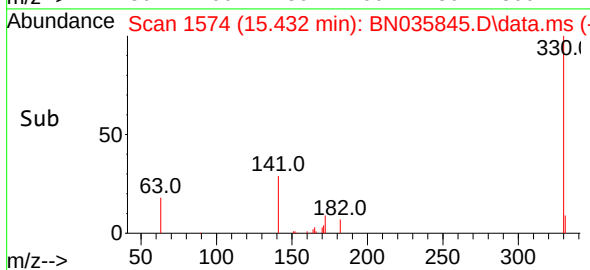
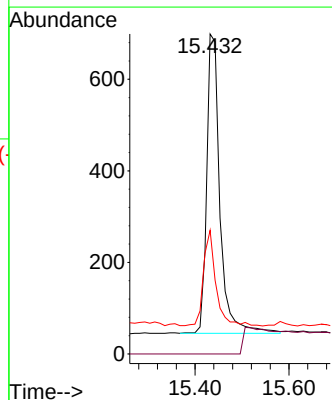
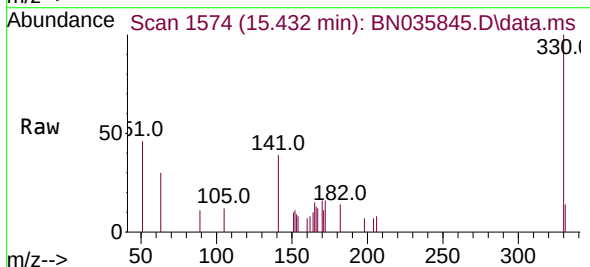
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

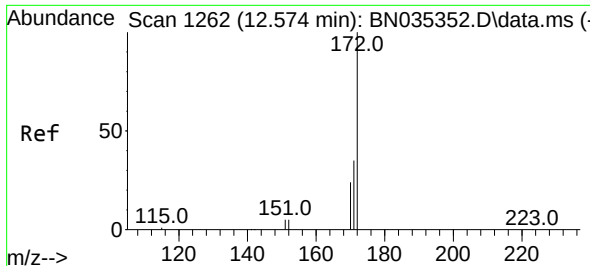
Tgt Ion:164 Resp: 5387
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.2
160 49.7 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.7 26.6 40.0

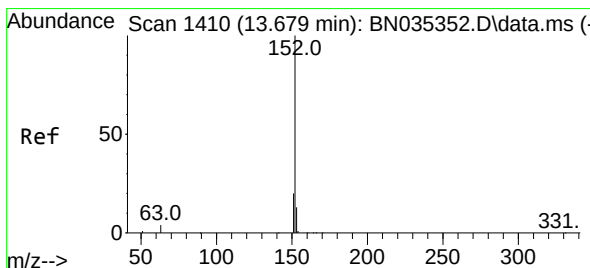
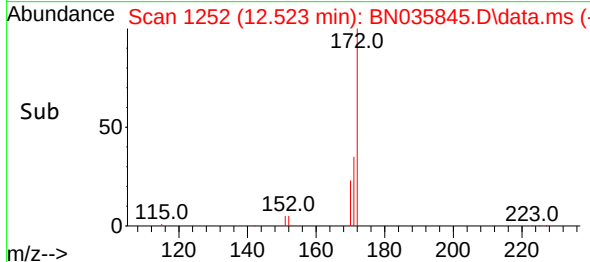
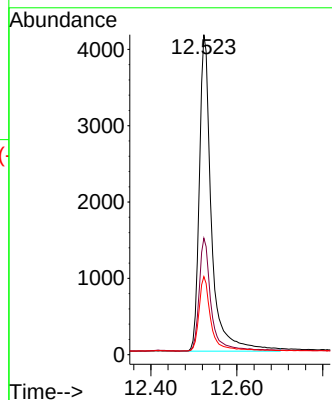
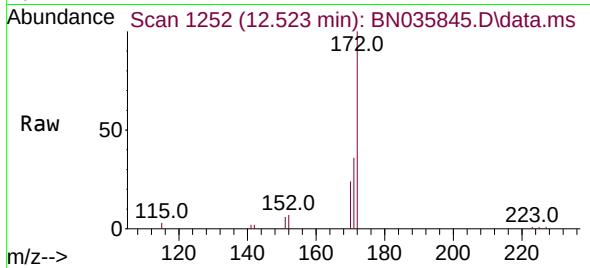




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

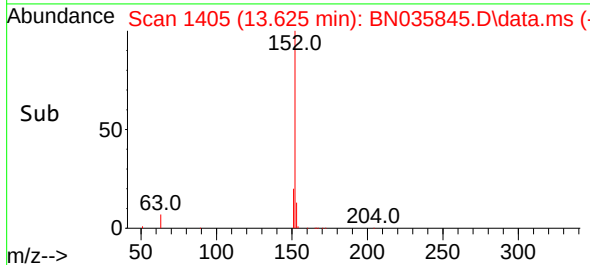
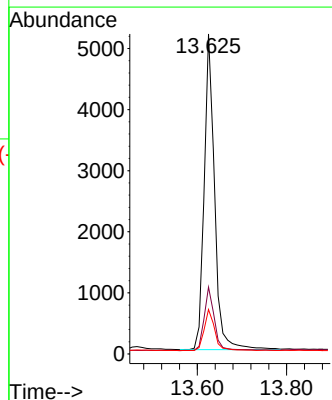
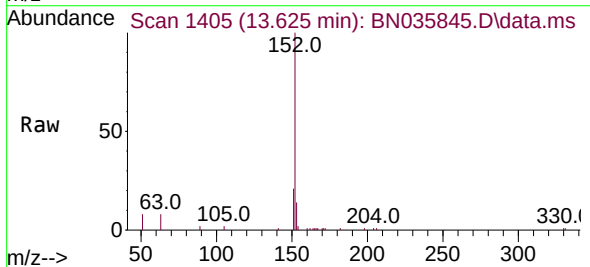
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

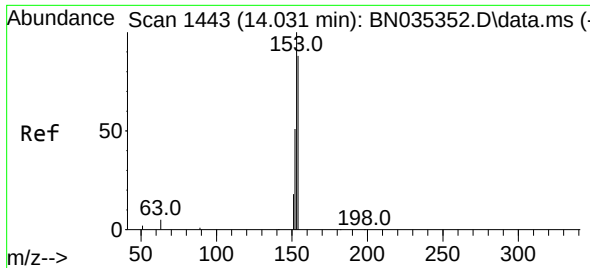
Tgt Ion:172	Resp:	8104
Ion	Ratio	Lower Upper
172	100	
171	36.4	29.0 43.4
170	24.4	19.8 29.8



#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152	Resp:	8340
Ion	Ratio	Lower Upper
152	100	
151	20.1	16.2 24.2
153	13.2	10.4 15.6

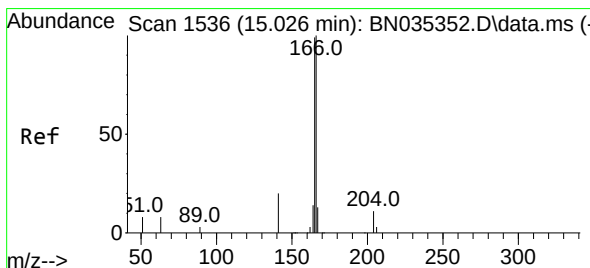
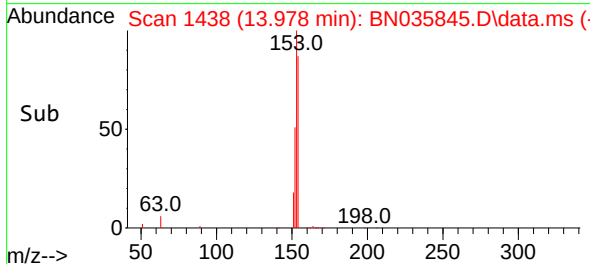
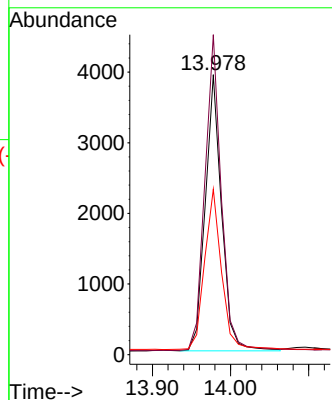
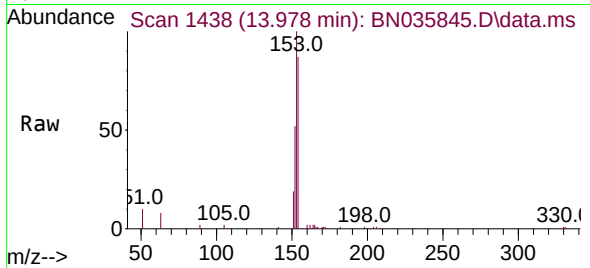




#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

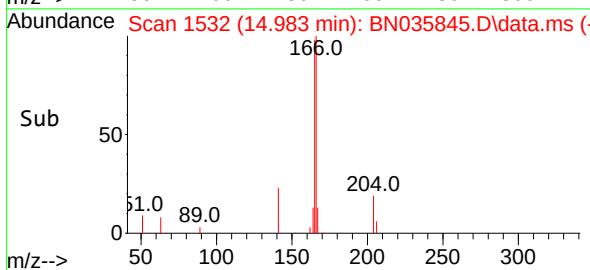
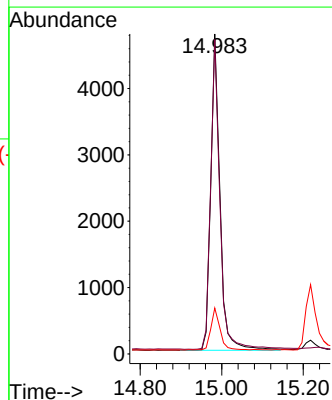
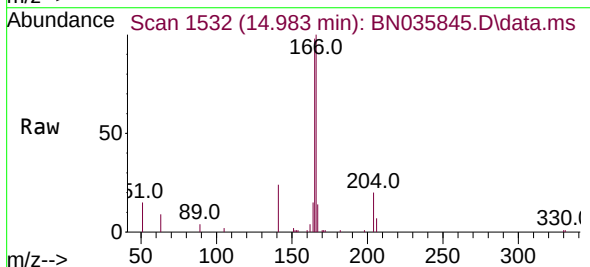
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

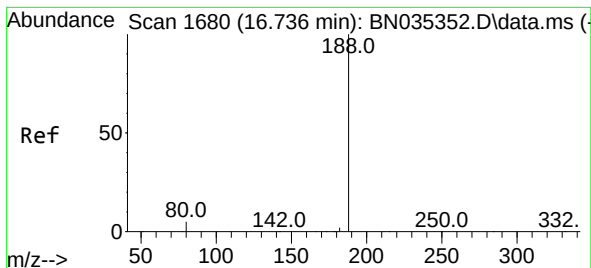
Tgt Ion:154 Resp: 5695
Ion Ratio Lower Upper
154 100
153 116.1 92.6 139.0
152 60.4 49.0 73.6



#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523
Ion Ratio Lower Upper
166 100
165 98.0 79.7 119.5
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.686 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

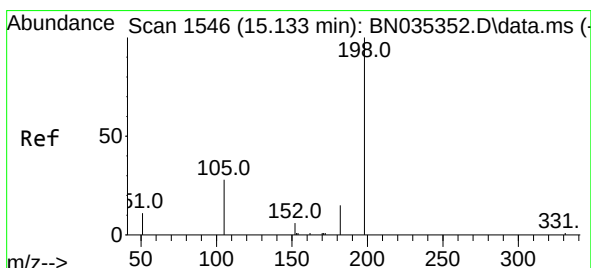
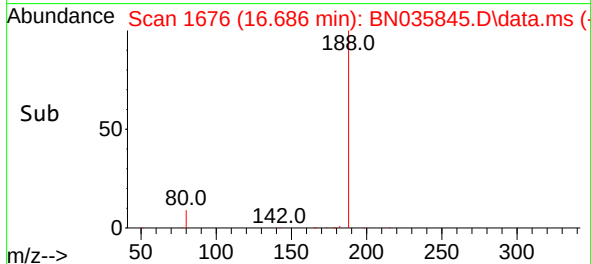
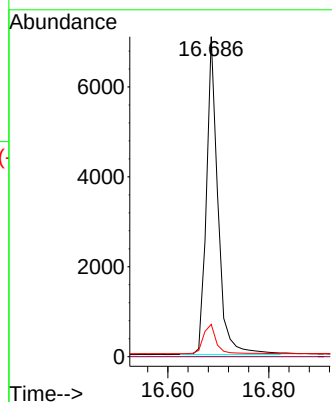
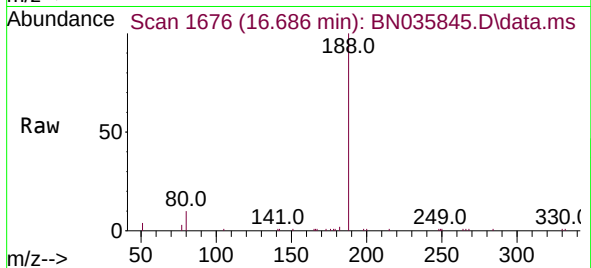
Tgt Ion:188 Resp: 11262

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.475 ng

RT: 15.100 min Scan# 1543

Delta R.T. -0.022 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

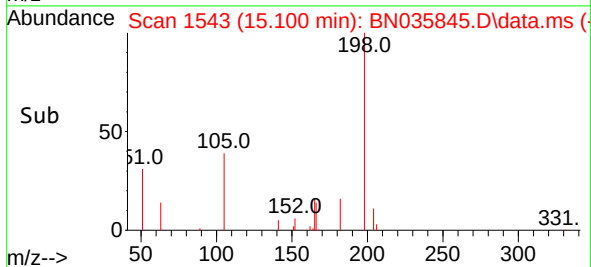
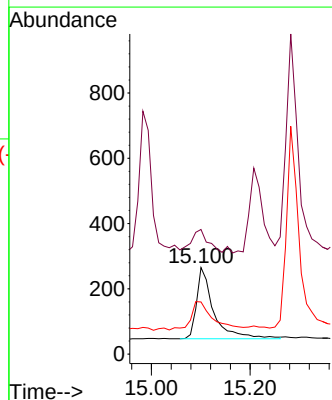
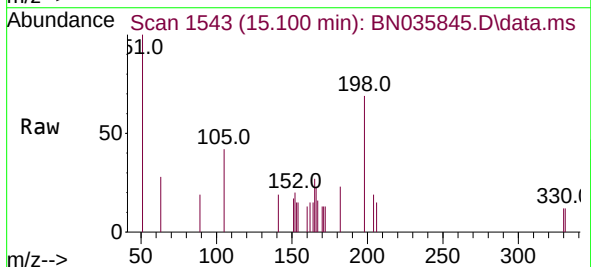
Tgt Ion:198 Resp: 526

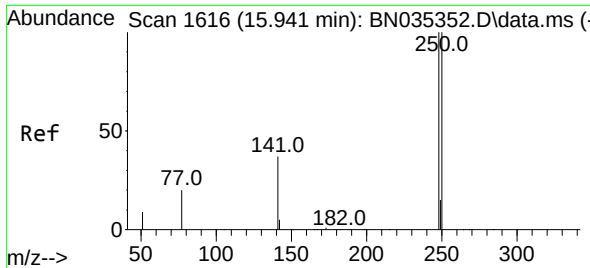
Ion Ratio Lower Upper

198 100

51 144.2 46.5 69.7#

105 60.4 45.3 67.9

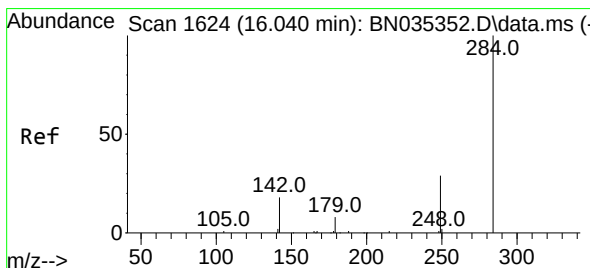
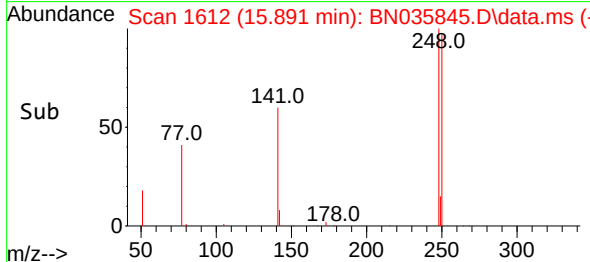
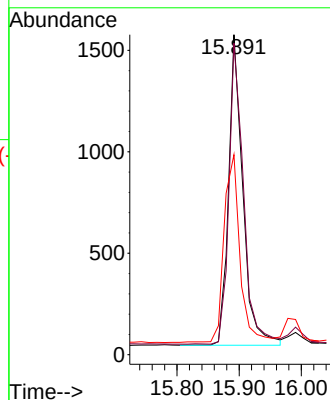
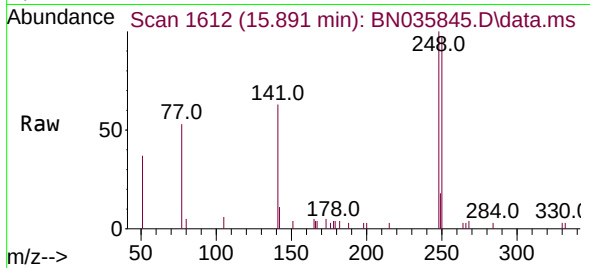




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1612
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

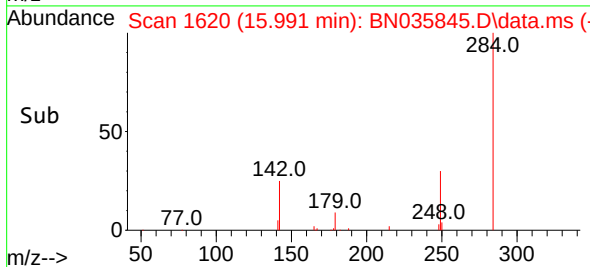
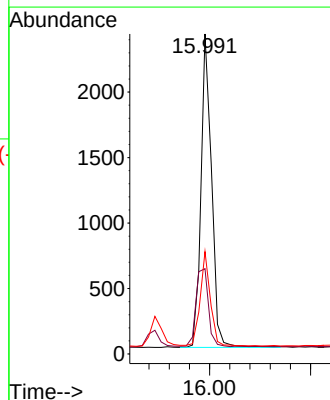
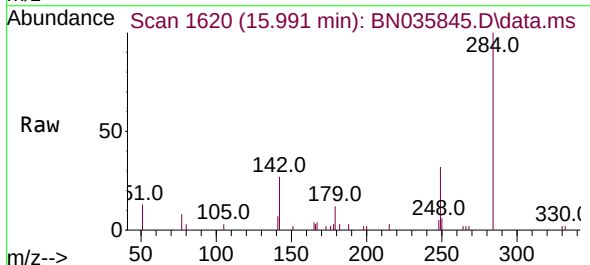
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

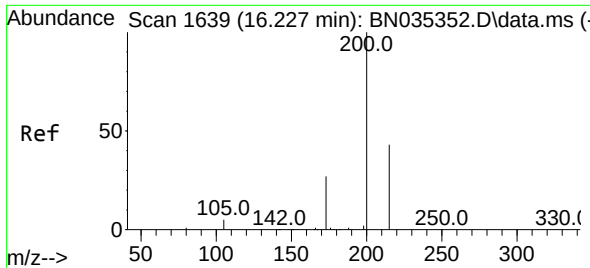
Tgt Ion:248 Resp: 2443
Ion Ratio Lower Upper
248 100
250 97.3 80.6 120.8
141 62.5 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482
Ion Ratio Lower Upper
284 100
142 29.6 26.7 40.1
249 28.9 24.6 36.8

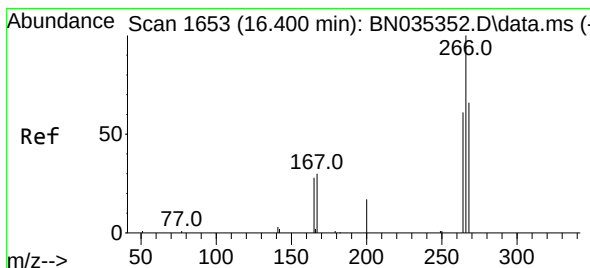
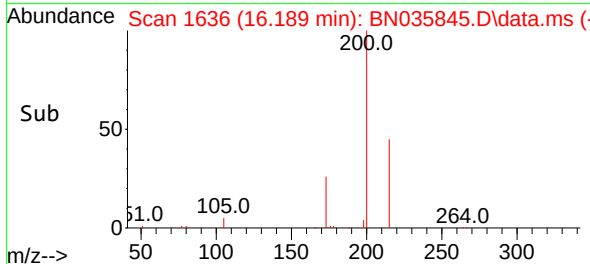
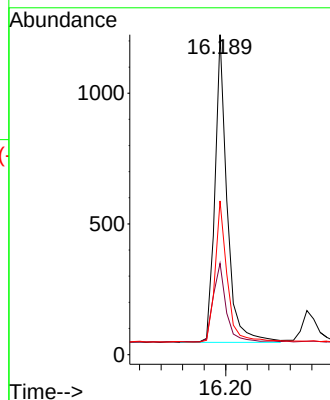
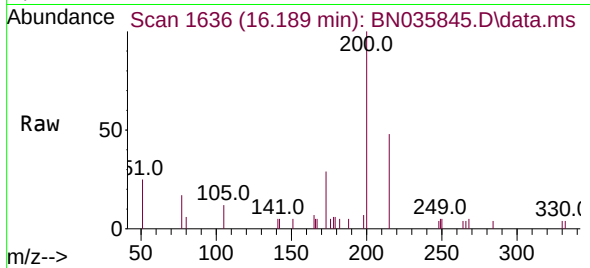




#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

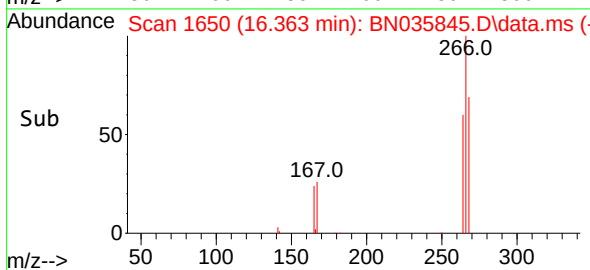
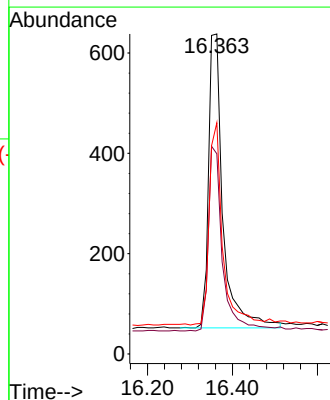
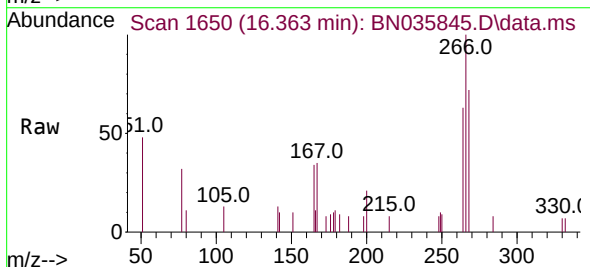
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

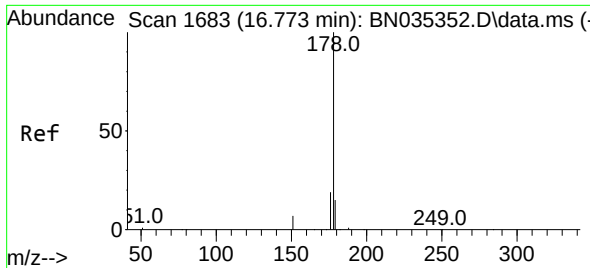
Tgt Ion:	200	Resp:	1843
Ion Ratio	Lower	Upper	
200	100		
173	28.5	24.1	36.1
215	48.0	36.9	55.3



#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:	266	Resp:	1383
Ion Ratio	Lower	Upper	
266	100		
264	61.3	42.3	63.5
268	63.8	43.3	64.9

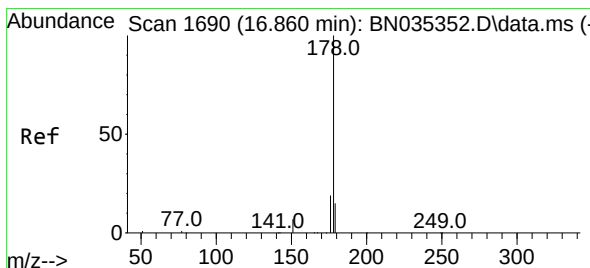
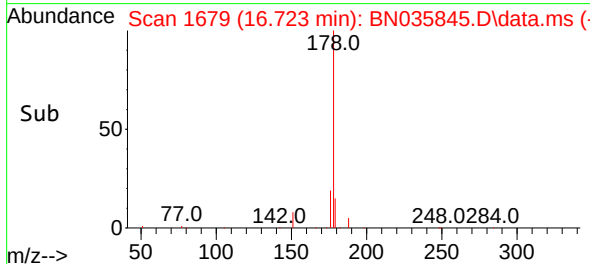
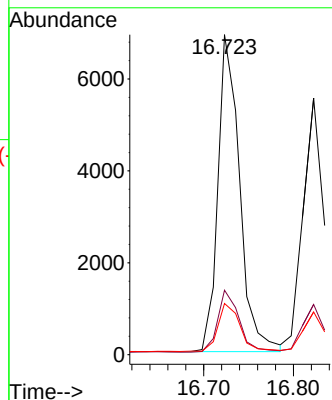
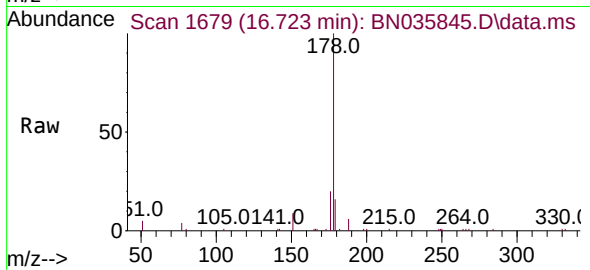




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

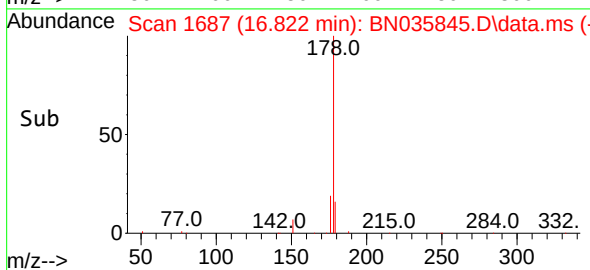
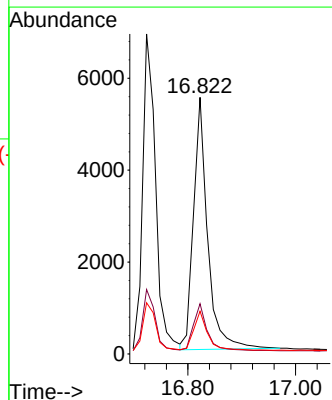
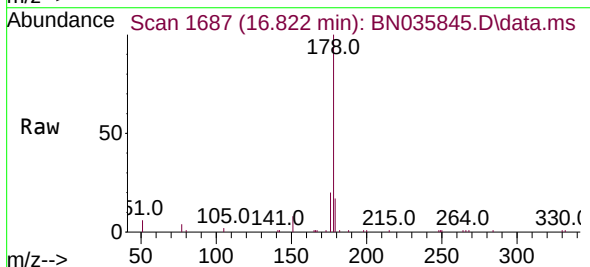
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

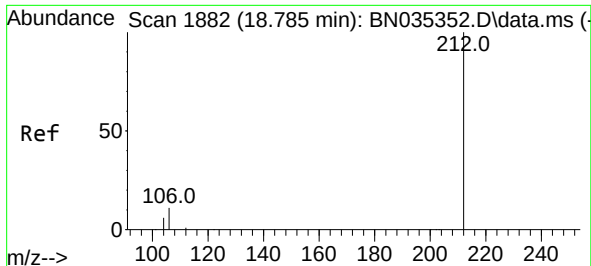
Tgt Ion:	178	Resp:	11602
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5



#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

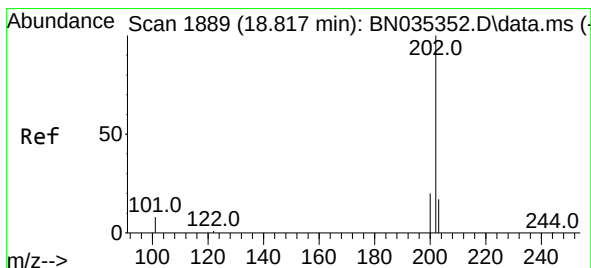
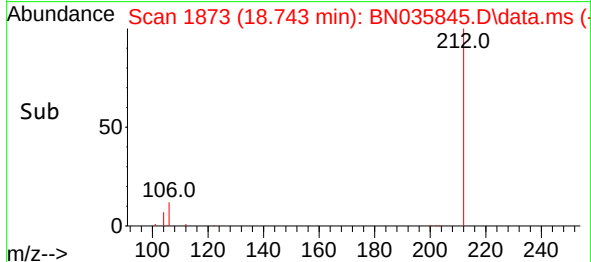
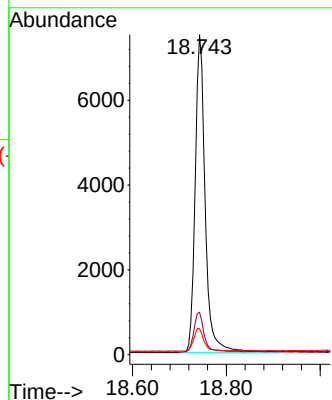
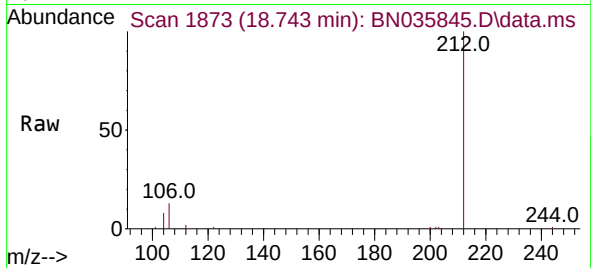




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1873
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

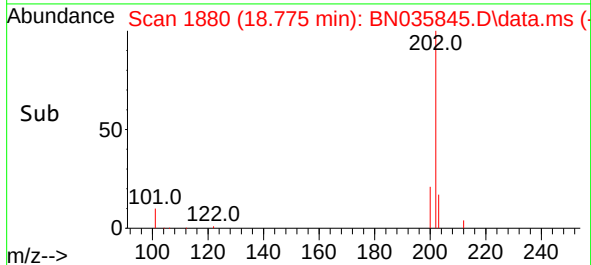
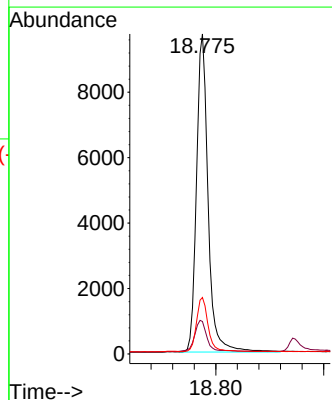
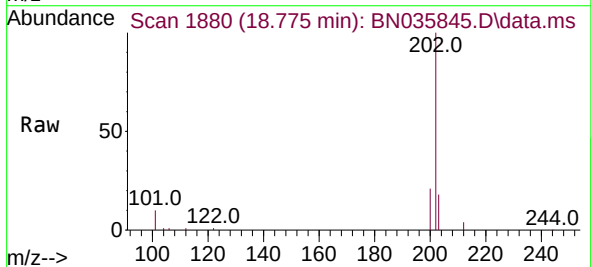
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

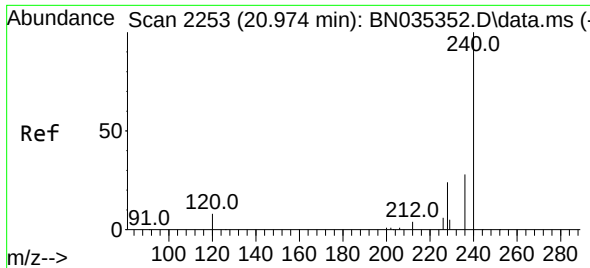
Tgt Ion:212 Resp: 11161
Ion Ratio Lower Upper
212 100
106 12.7 9.2 13.8
104 7.4 5.3 7.9



#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

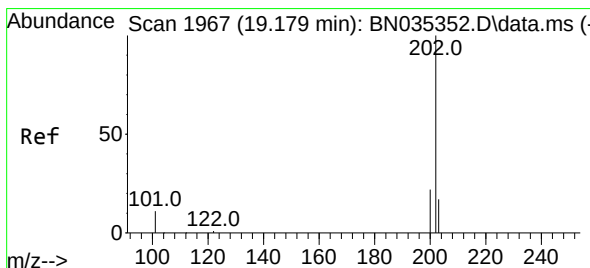
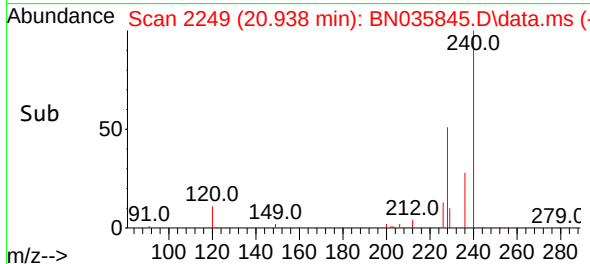
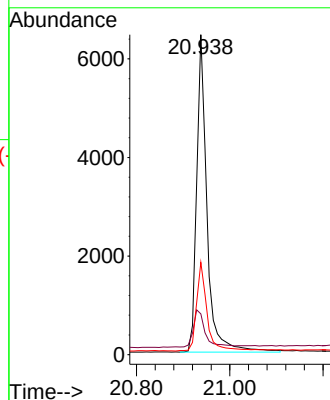
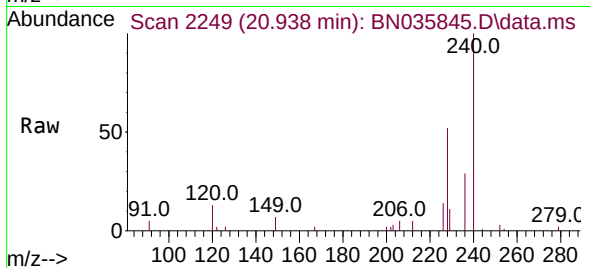




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

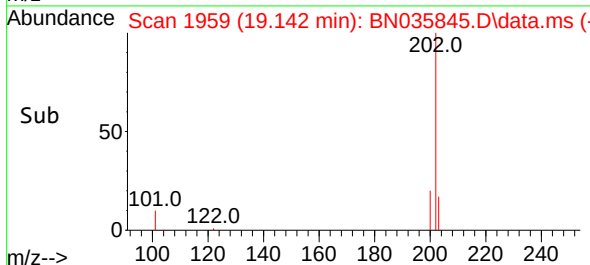
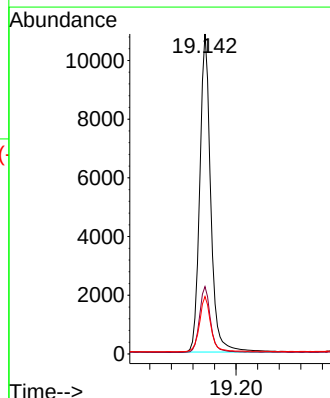
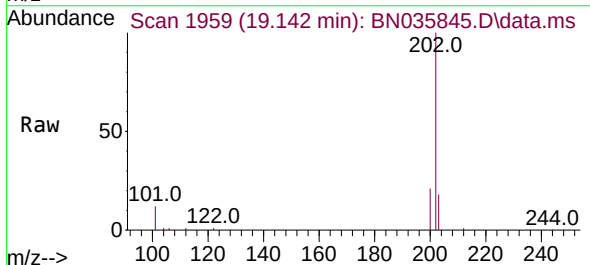
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

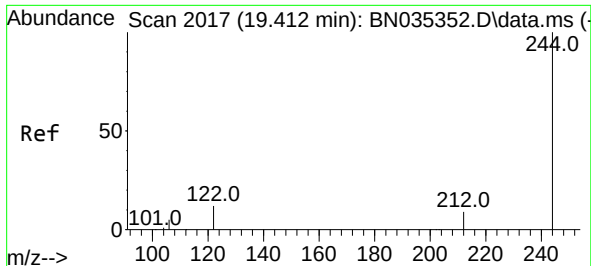
Tgt Ion:240 Resp: 9932
Ion Ratio Lower Upper
240 100
120 12.7 7.9 11.9#
236 28.9 22.9 34.3



#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

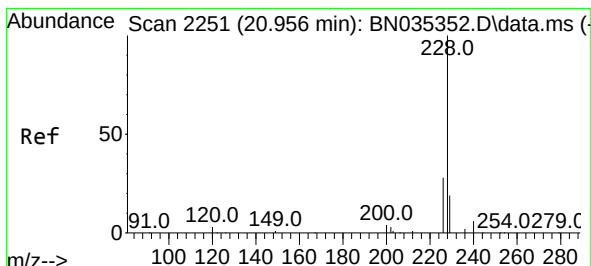
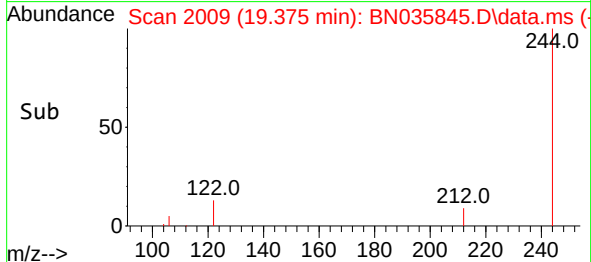
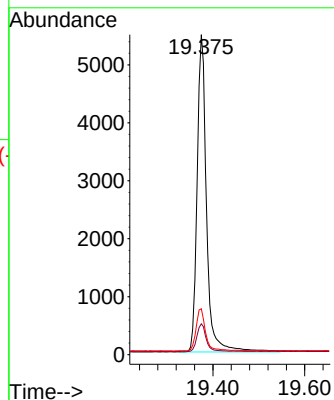
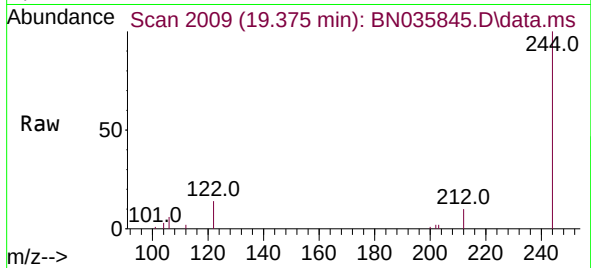




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2017
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

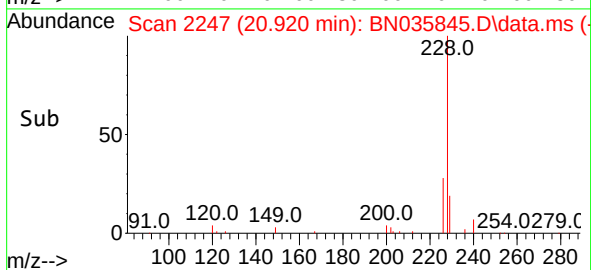
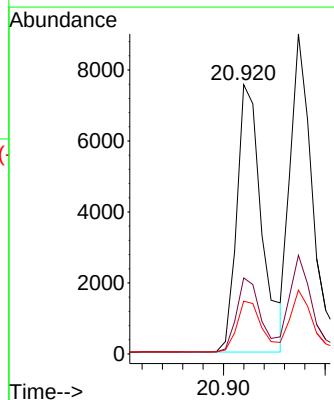
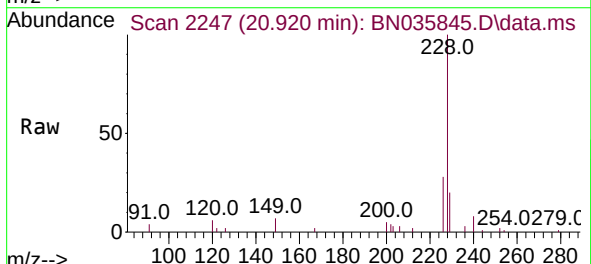
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

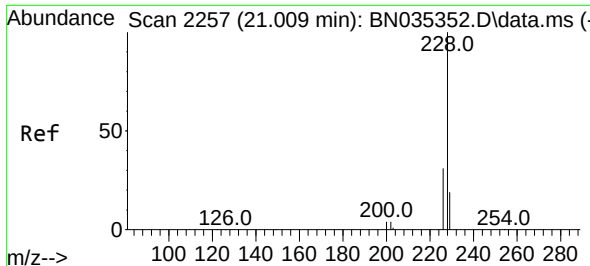
Tgt Ion:244 Resp: 7783
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 14.4 10.3 15.5



#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

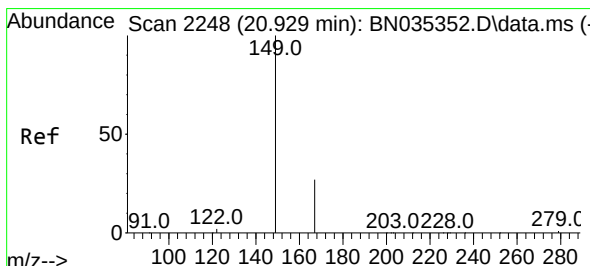
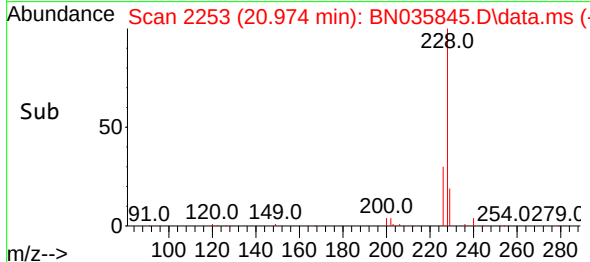
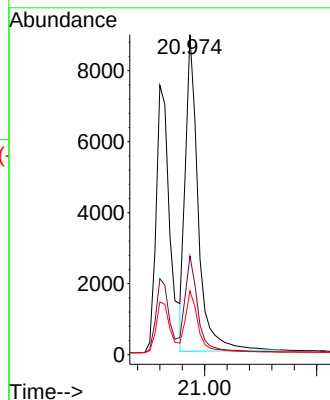
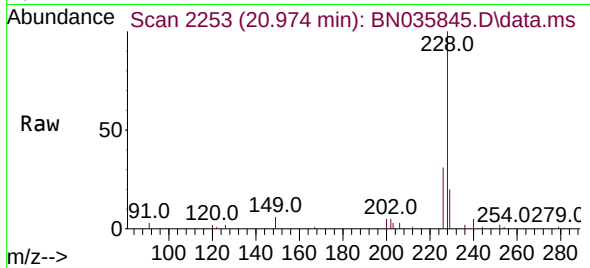
Tgt Ion:228 Resp: 14214

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

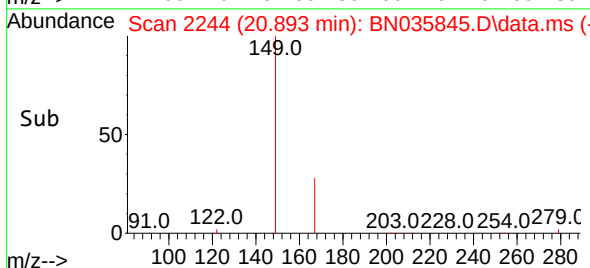
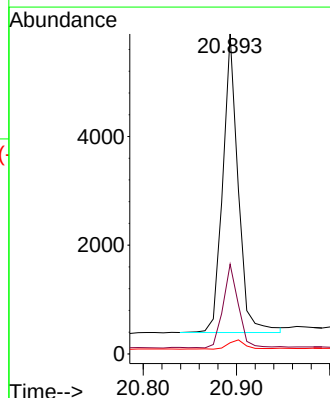
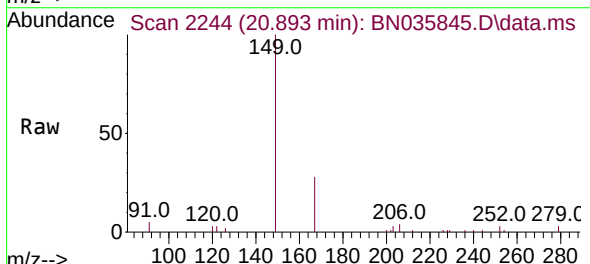
Tgt Ion:149 Resp: 6282

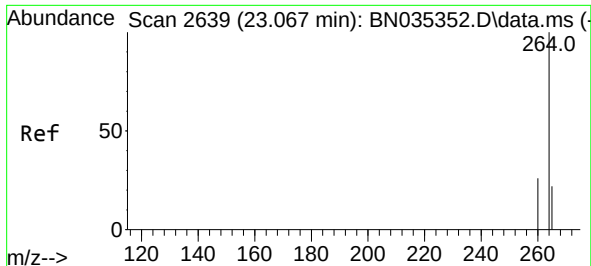
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

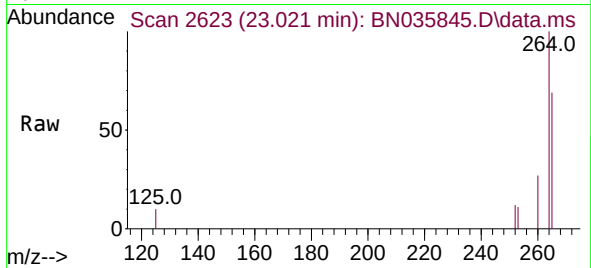
279 3.4 2.7 4.1



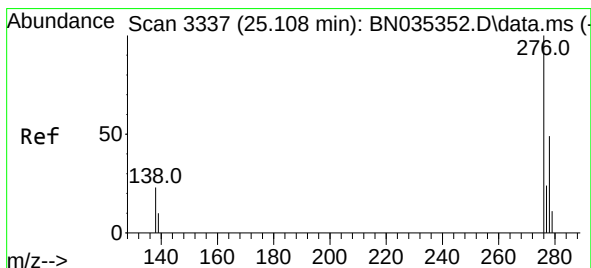
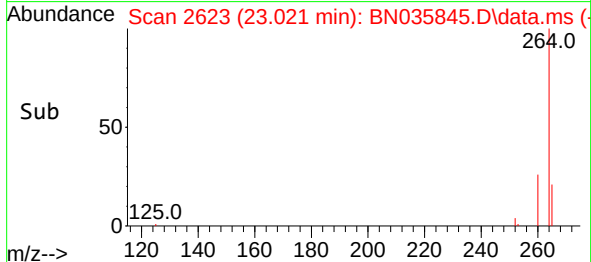
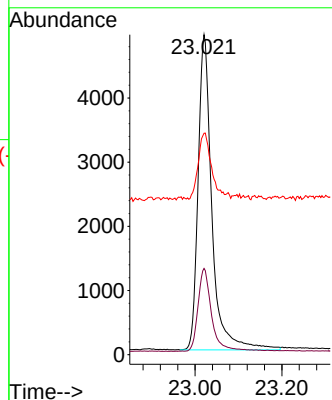


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2623
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

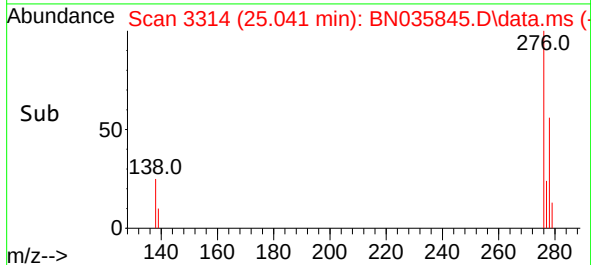
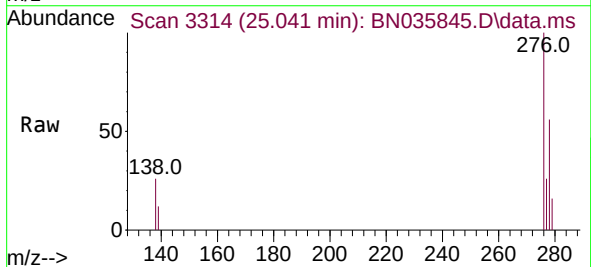
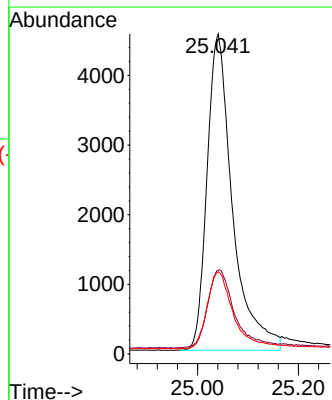


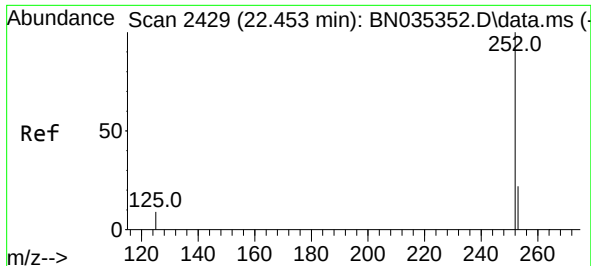
Tgt Ion:264 Resp: 10817
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 69.2 40.2 60.4#



#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

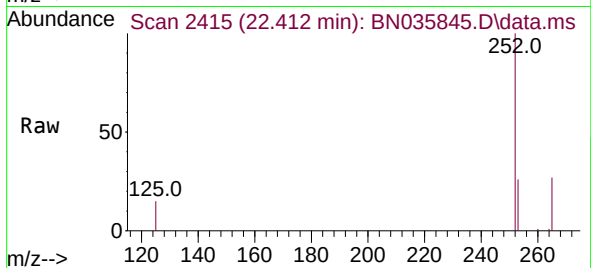
Tgt Ion:276 Resp: 15946
Ion Ratio Lower Upper
276 100
138 26.4 19.4 29.0
277 25.7 19.8 29.6



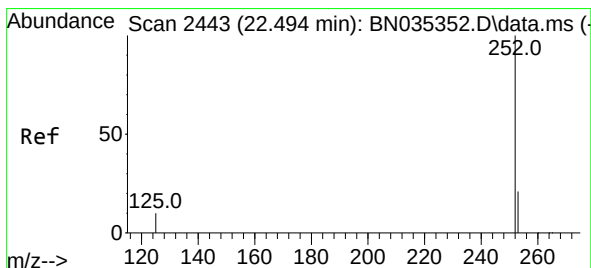
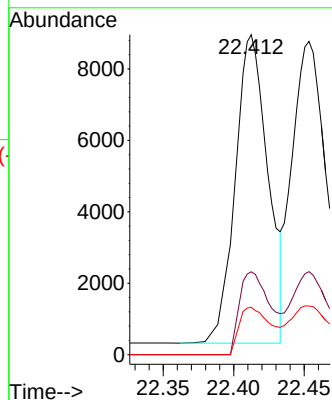


#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

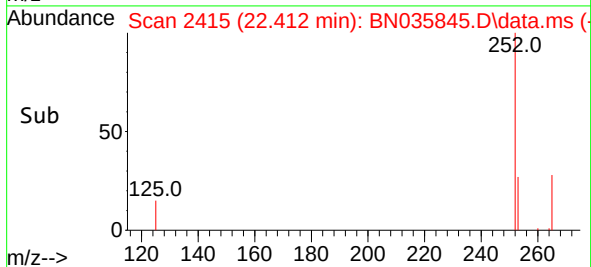
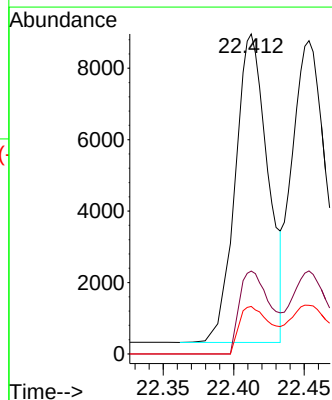
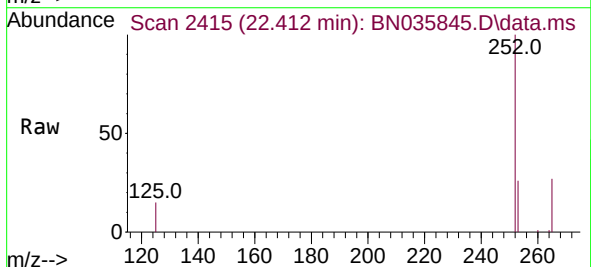


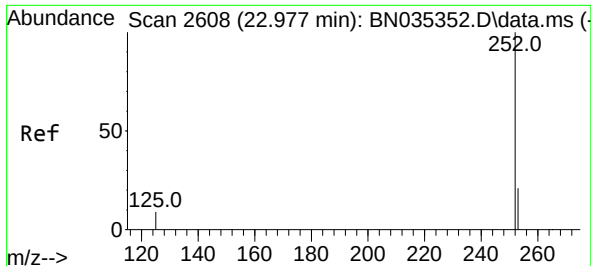
Tgt Ion:252 Resp: 19565
Ion Ratio Lower Upper
252 100
253 25.9 19.6 29.4
125 14.9 9.6 14.4#



#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

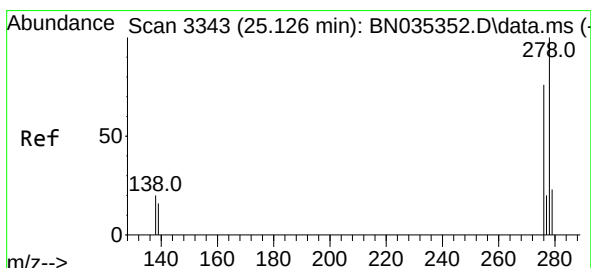
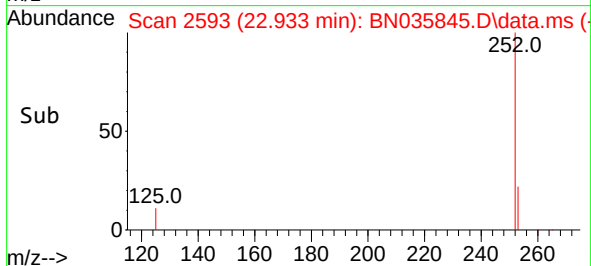
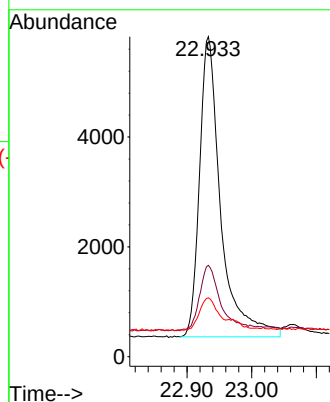
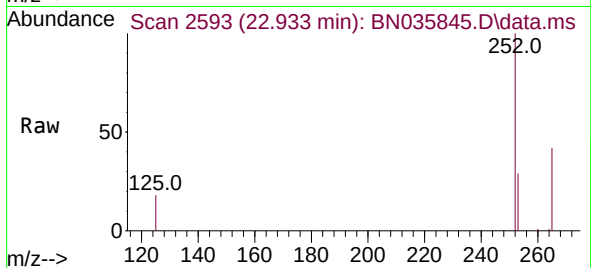
Instrument :

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

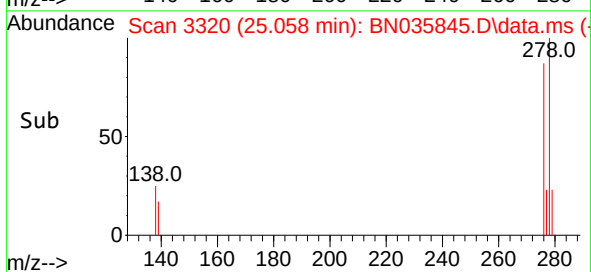
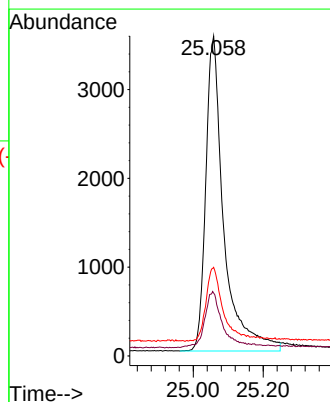
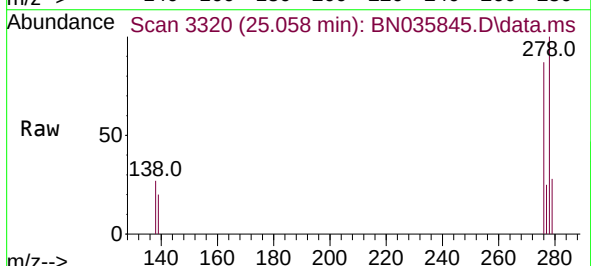
RT: 25.058 min Scan# 3320

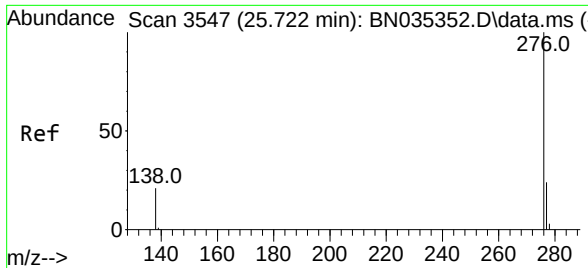
Delta R.T. -0.024 min

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

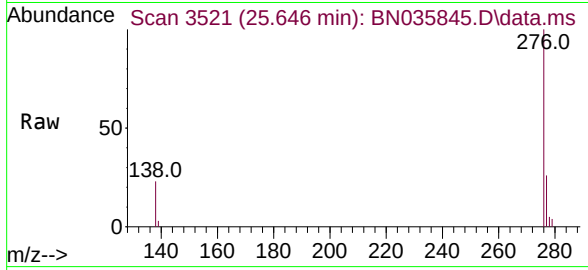
Acq: 26 Dec 2024 09:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



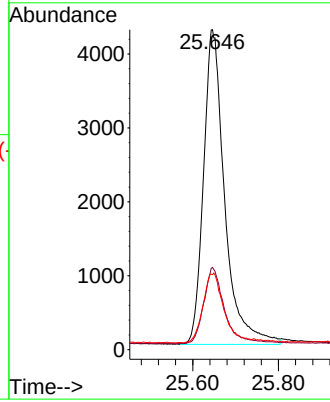
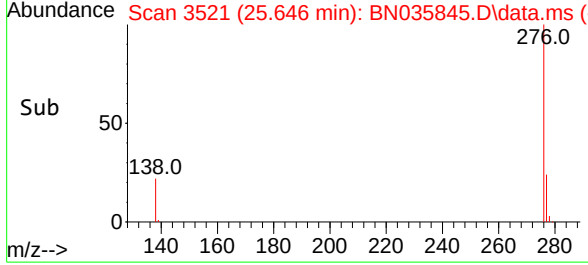
Tgt Ion:276 Resp: 14614

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 : BN035846.D
Acq On : 26 Dec 2024 10:35
Operator : RC/JU
Sample : PB165724BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Quant Time: Dec 27 00:40:22 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

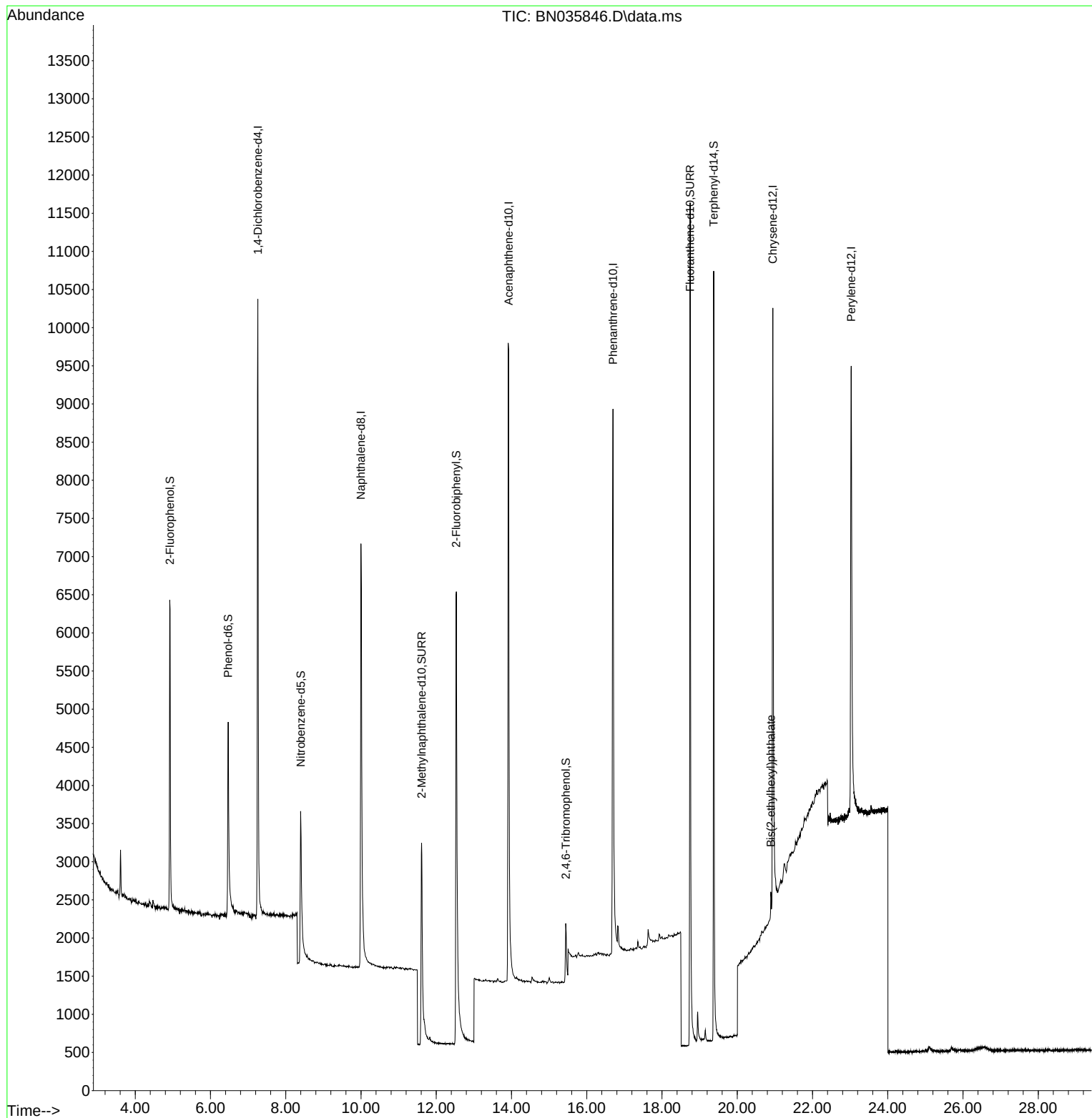
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	4513	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	10649	0.400	ng	-0.02
13) Acenaphthene-d10	13.924	164	6575	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	14052	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	10269	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	9894	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3643	0.323	ng	-0.01
5) Phenol-d6	6.470	99	3773	0.278	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3146	0.484	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6172	0.370	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	975	0.209	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	9551	0.384	ng	-0.01
27) Fluoranthene-d10	18.747	212	15078	0.379	ng	-0.01
31) Terphenyl-d14	19.375	244	10893	0.538	ng	-0.01
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	20.893	149	381	0.027	ng	# 94

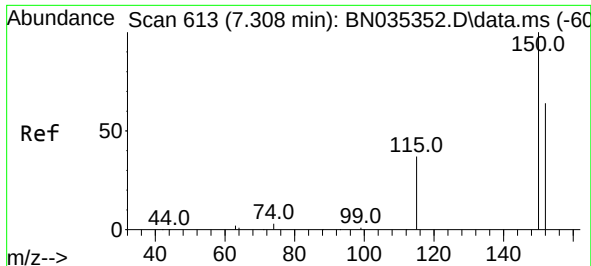
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035846.D
Acq On : 26 Dec 2024 10:35
Operator : RC/JU
Sample : PB165724BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BL

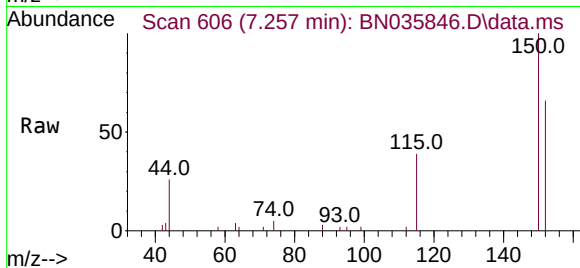
Quant Time: Dec 27 00:40:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



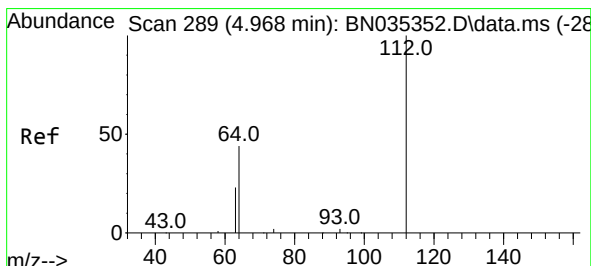
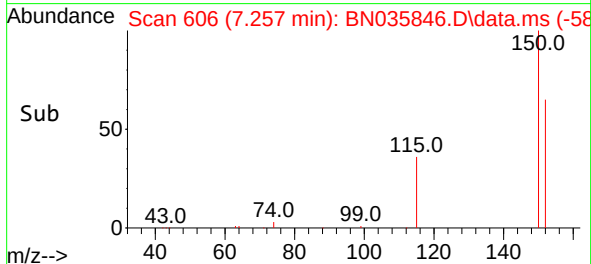
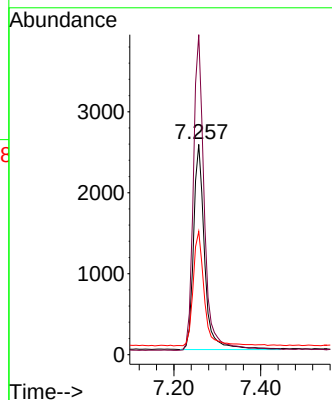


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 606
Delta R.T. -0.015 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

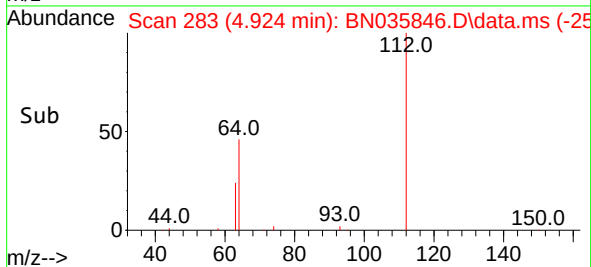
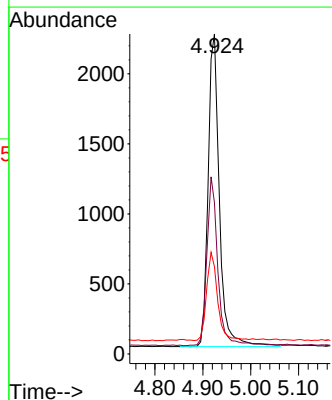
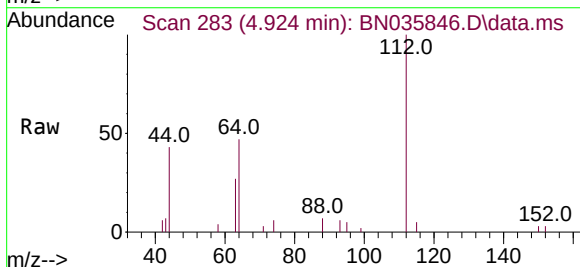


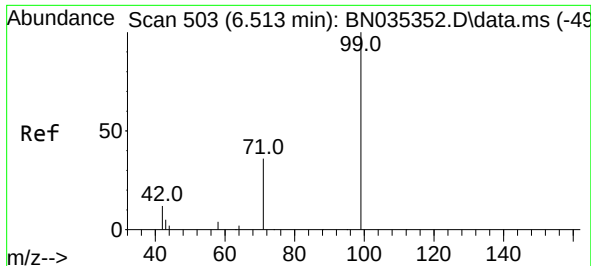
Tgt Ion:152 Resp: 4513
Ion Ratio Lower Upper
152 100
150 152.2 124.0 186.0
115 58.6 49.6 74.4



#4
2-Fluorophenol
Concen: 0.323 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:112 Resp: 3643
Ion Ratio Lower Upper
112 100
64 52.8 39.8 59.8
63 27.4 21.0 31.6

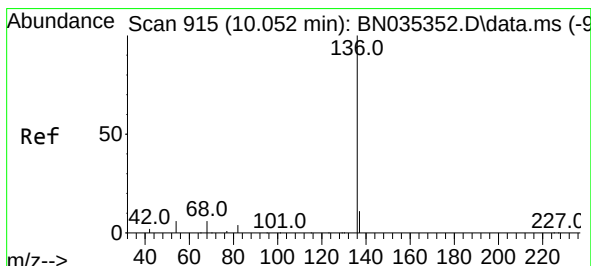
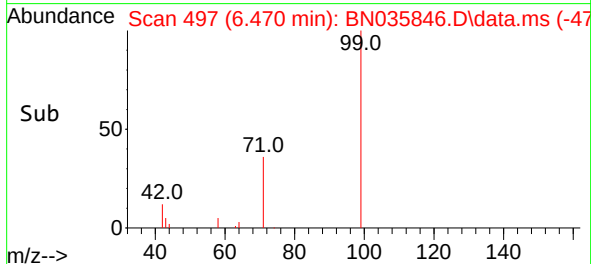
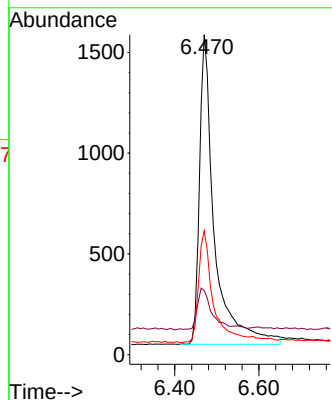
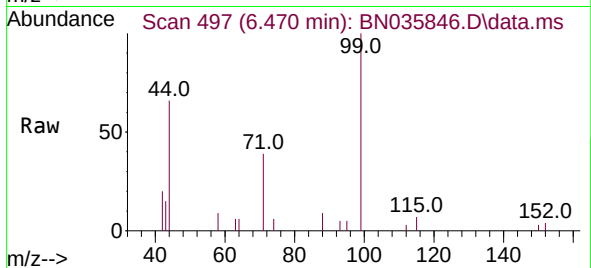




#5
Phenol-d6
Concen: 0.278 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

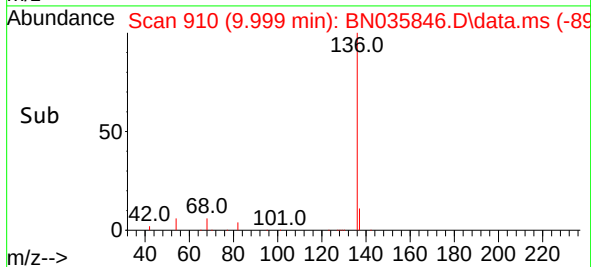
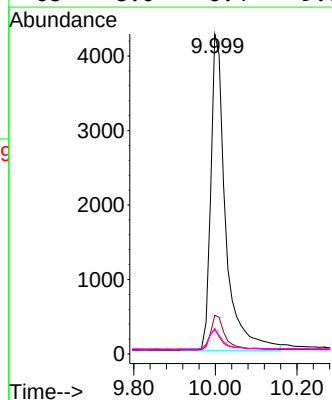
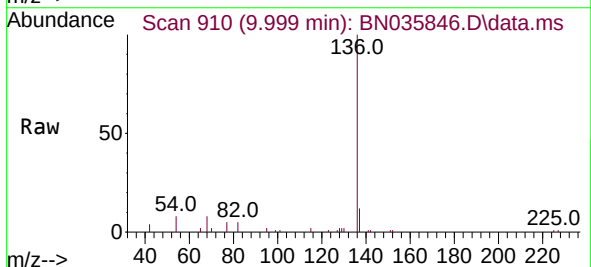
Instrument :
BNA_N
ClientSampleId :
PB165724BL

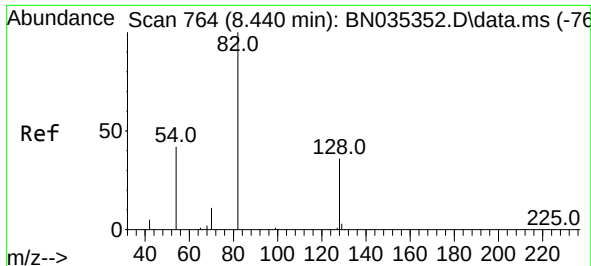
Tgt Ion:	99	Resp:	3773
Ion	Ratio	Lower	Upper
99	100		
42	12.5	11.4	17.2
71	37.4	29.3	43.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.022 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:	136	Resp:	10649
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.7	6.1	9.1
68	8.0	6.4	9.6

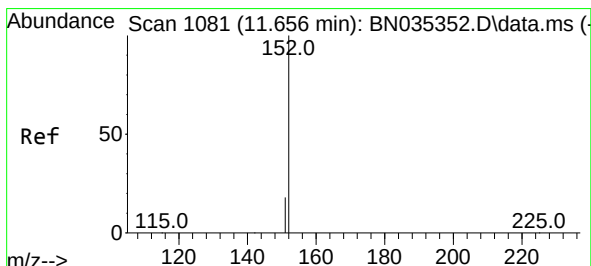
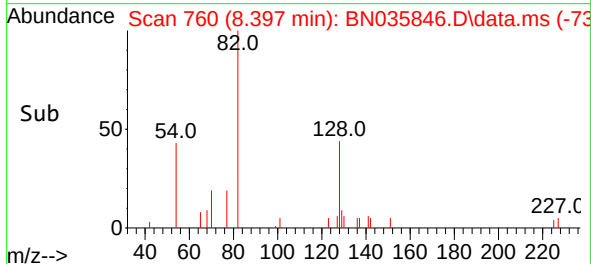
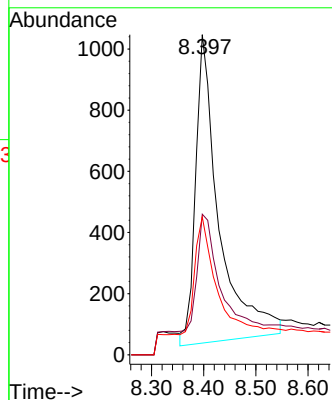
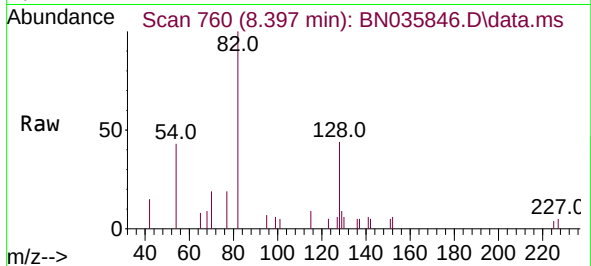




#8
Nitrobenzene-d5
Concen: 0.484 ng
RT: 8.397 min Scan# 70
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

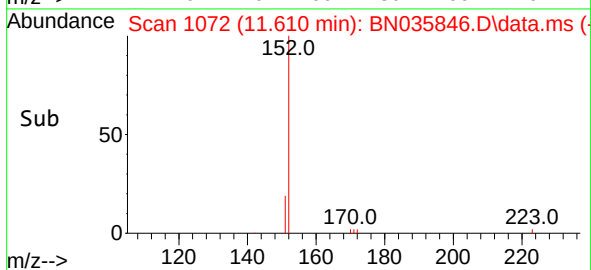
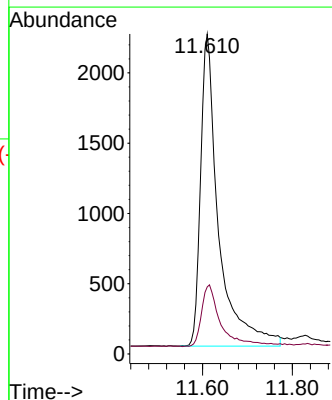
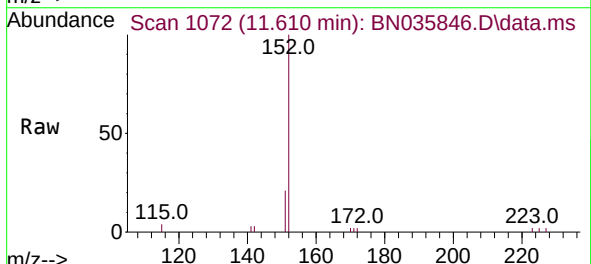
Instrument :
BNA_N
ClientSampleId :
PB165724BL

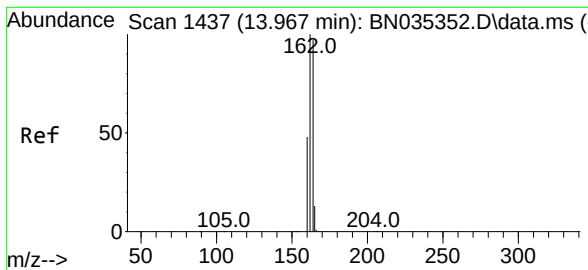
Tgt Ion: 82	Resp: 3146
Ion Ratio	Lower Upper
82	100
128	43.9 33.4 50.0
54	43.1 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion: 152	Resp: 6172
Ion Ratio	Lower Upper
152	100
151	21.4 16.6 25.0

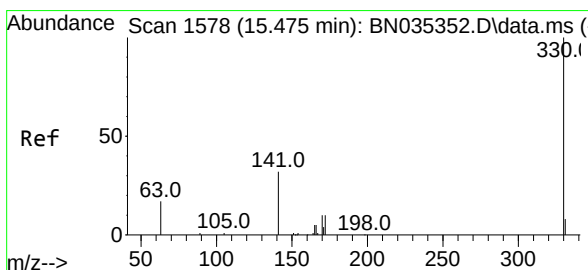
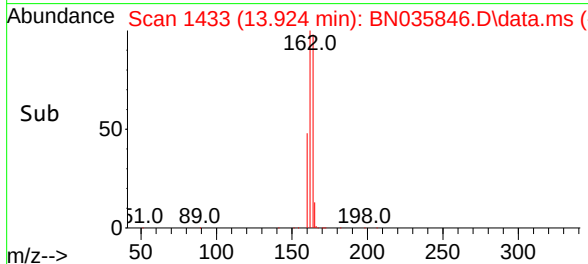
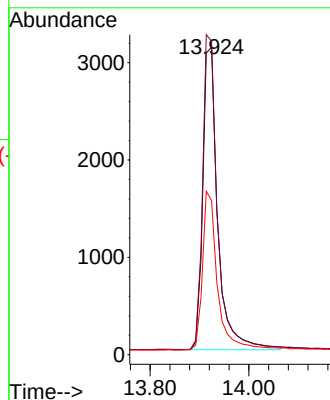
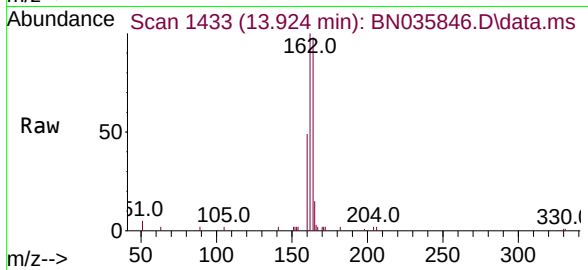




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

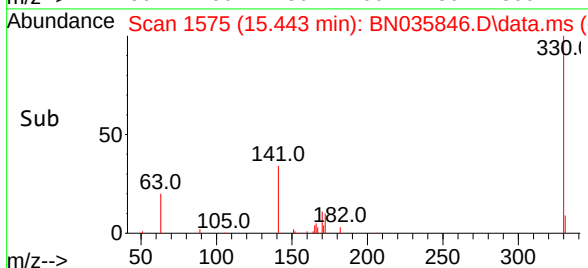
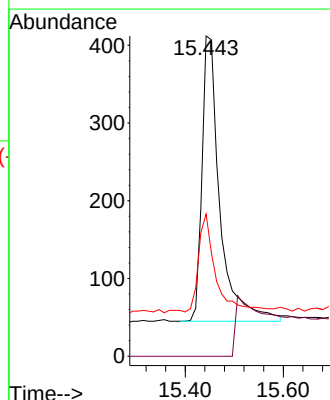
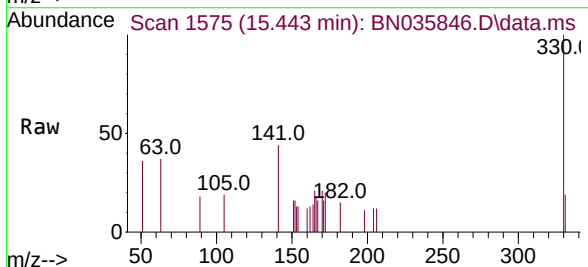
Instrument :
BNA_N
ClientSampleId :
PB165724BL

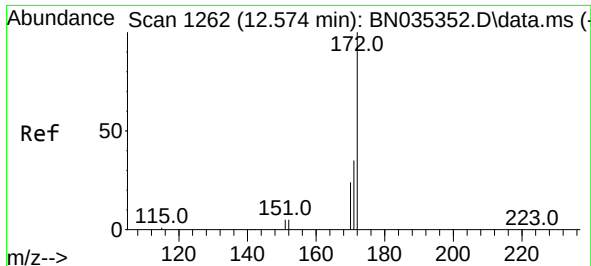
Tgt Ion:164 Resp: 6575
Ion Ratio Lower Upper
164 100
162 101.8 82.2 123.2
160 50.1 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:330 Resp: 975
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.3 26.6 40.0

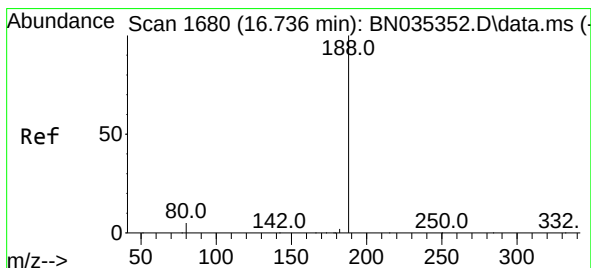
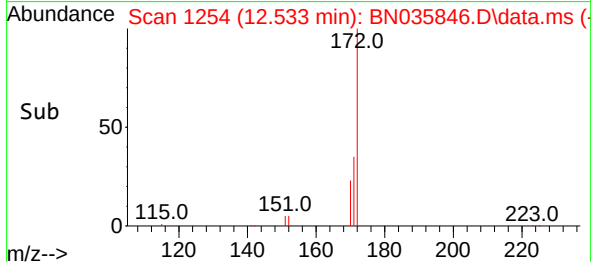
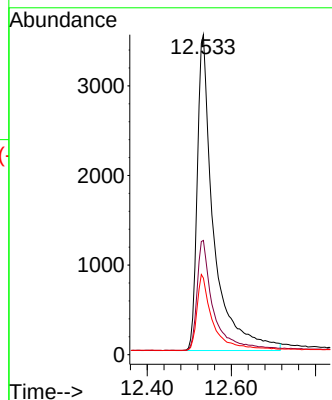
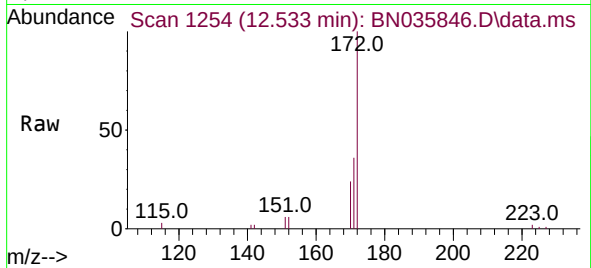




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

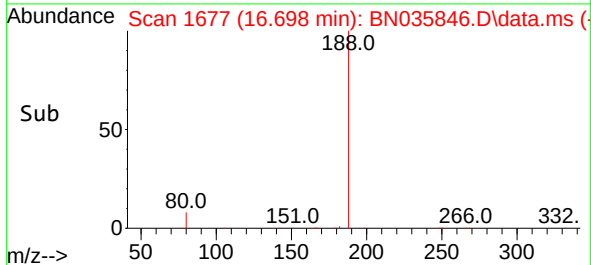
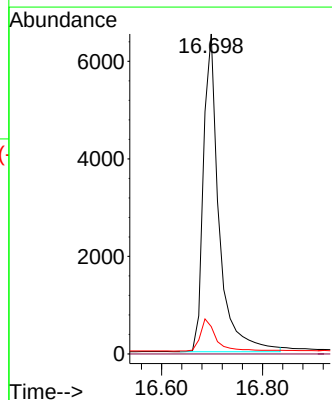
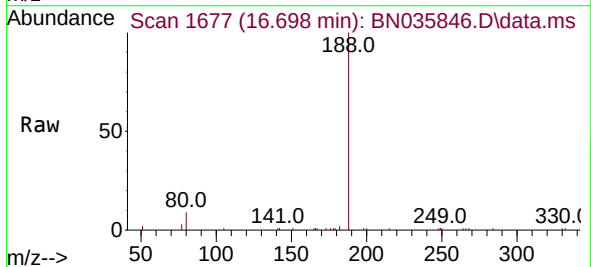
Instrument :
BNA_N
ClientSampleId :
PB165724BL

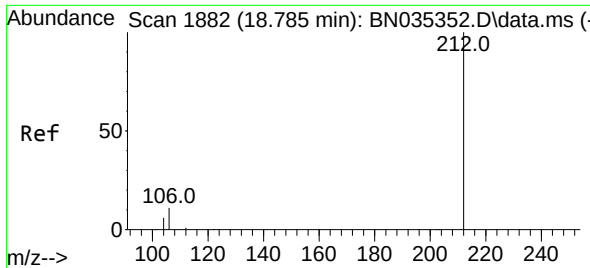
Tgt Ion:172 Resp: 9551
Ion Ratio Lower Upper
172 100
171 35.7 29.0 43.4
170 24.0 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:188 Resp: 14052
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.5 4.6 6.8#

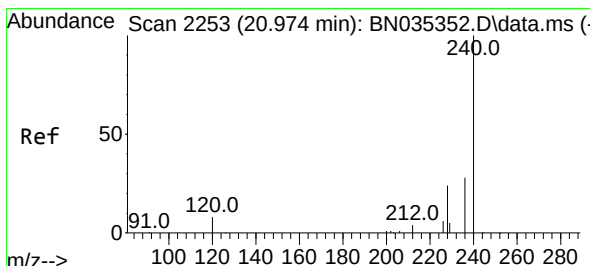
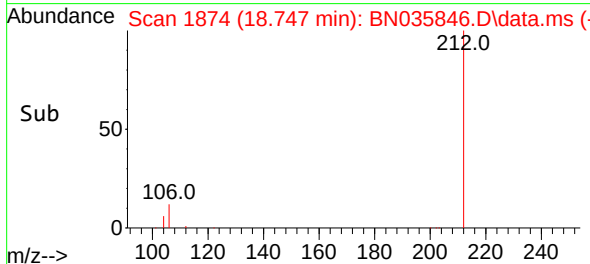
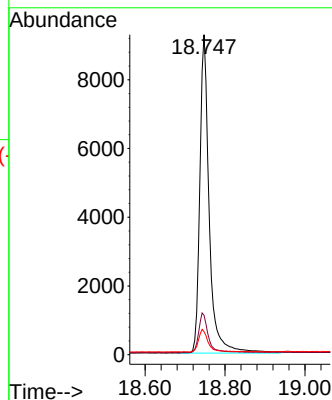
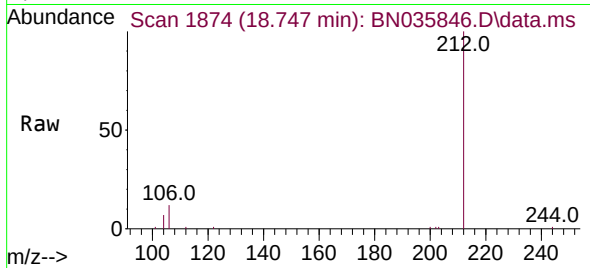




#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 18.747 min Scan# 11
Delta R.T. -0.014 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

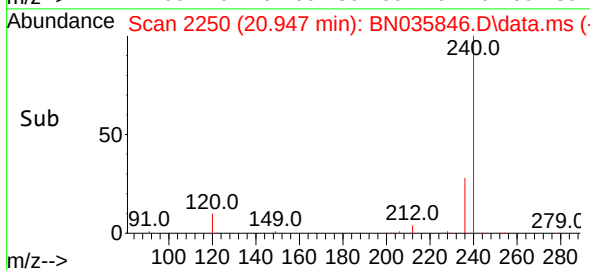
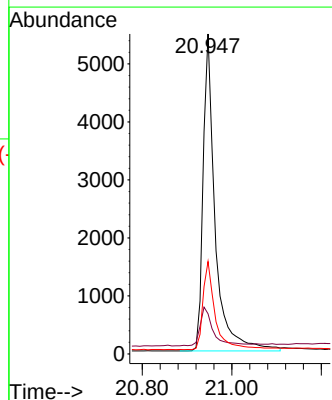
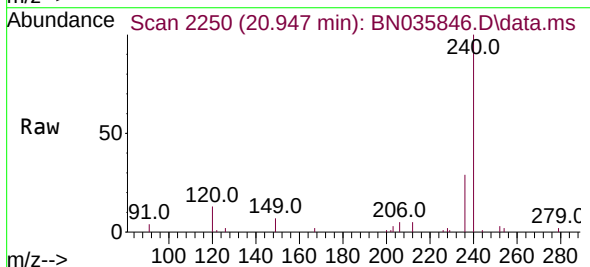
Instrument :
BNA_N
ClientSampleId :
PB165724BL

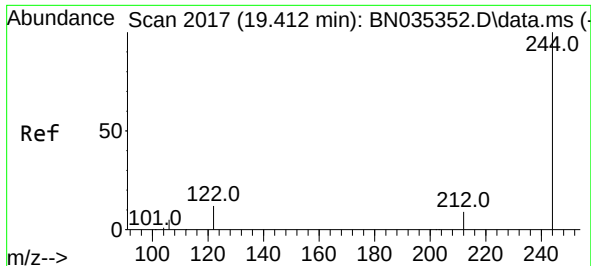
Tgt Ion:212 Resp: 15078
Ion Ratio Lower Upper
212 100
106 12.7 9.2 13.8
104 7.2 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:240 Resp: 10269
Ion Ratio Lower Upper
240 100
120 12.5 7.9 11.9#
236 28.9 22.9 34.3

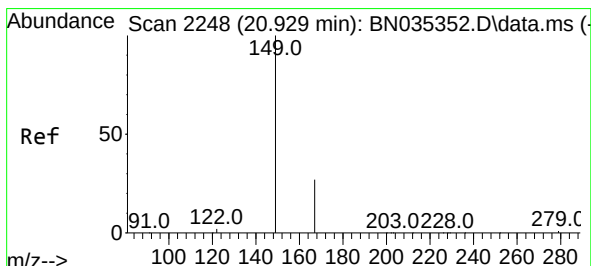
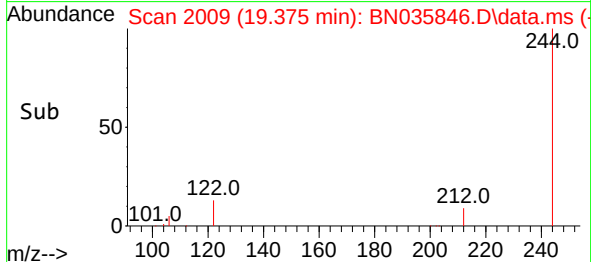
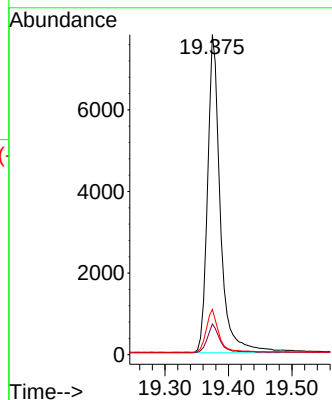
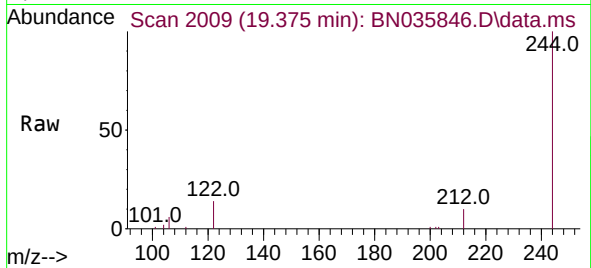




#31
 Terphenyl-d14
 Concen: 0.538 ng
 RT: 19.375 min Scan# 2017
 Delta R.T. -0.014 min
 Lab File: BN035846.D
 Acq: 26 Dec 2024 10:35

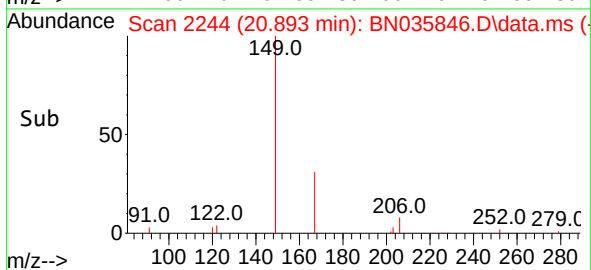
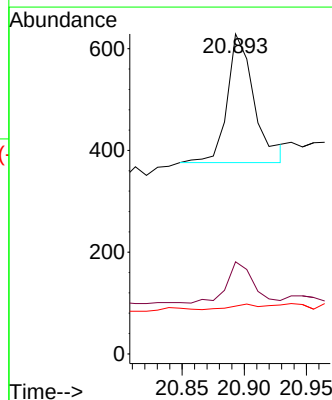
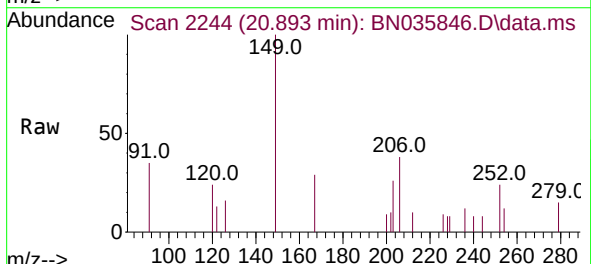
Instrument :
 BNA_N
 ClientSampleId :
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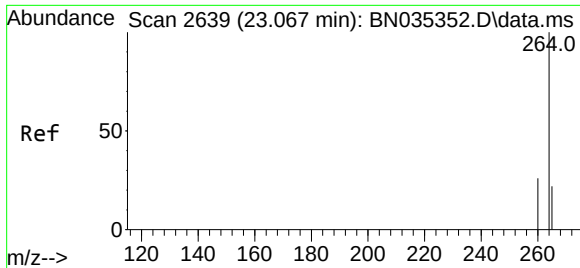
Tgt Ion:244 Resp: 10893
 Ion Ratio Lower Upper
 244 100
 212 9.6 8.1 12.1
 122 14.2 10.3 15.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.027 ng
 RT: 20.893 min Scan# 2244
 Delta R.T. -0.018 min
 Lab File: BN035846.D
 Acq: 26 Dec 2024 10:35

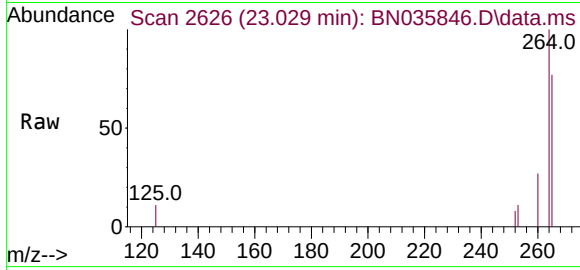
Tgt Ion:149 Resp: 381
 Ion Ratio Lower Upper
 149 100
 167 31.0 22.2 33.4
 279 4.2 2.7 4.1#



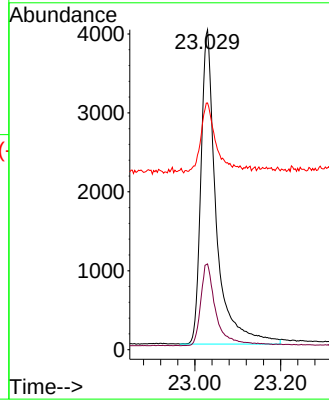
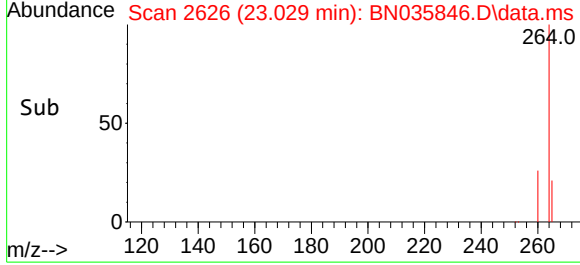


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 20
Delta R.T. -0.012 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL



Tgt Ion:	264	Resp:	9894
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	77.1	40.2	60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
 Data File : BN035853.D
 Acq On : 26 Dec 2024 14:54
 Operator : RC/JU
 Sample : PB165724BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165724BSD

Quant Time: Dec 27 00:41:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 19 23:06:19 2024
 Response via : Initial Calibration

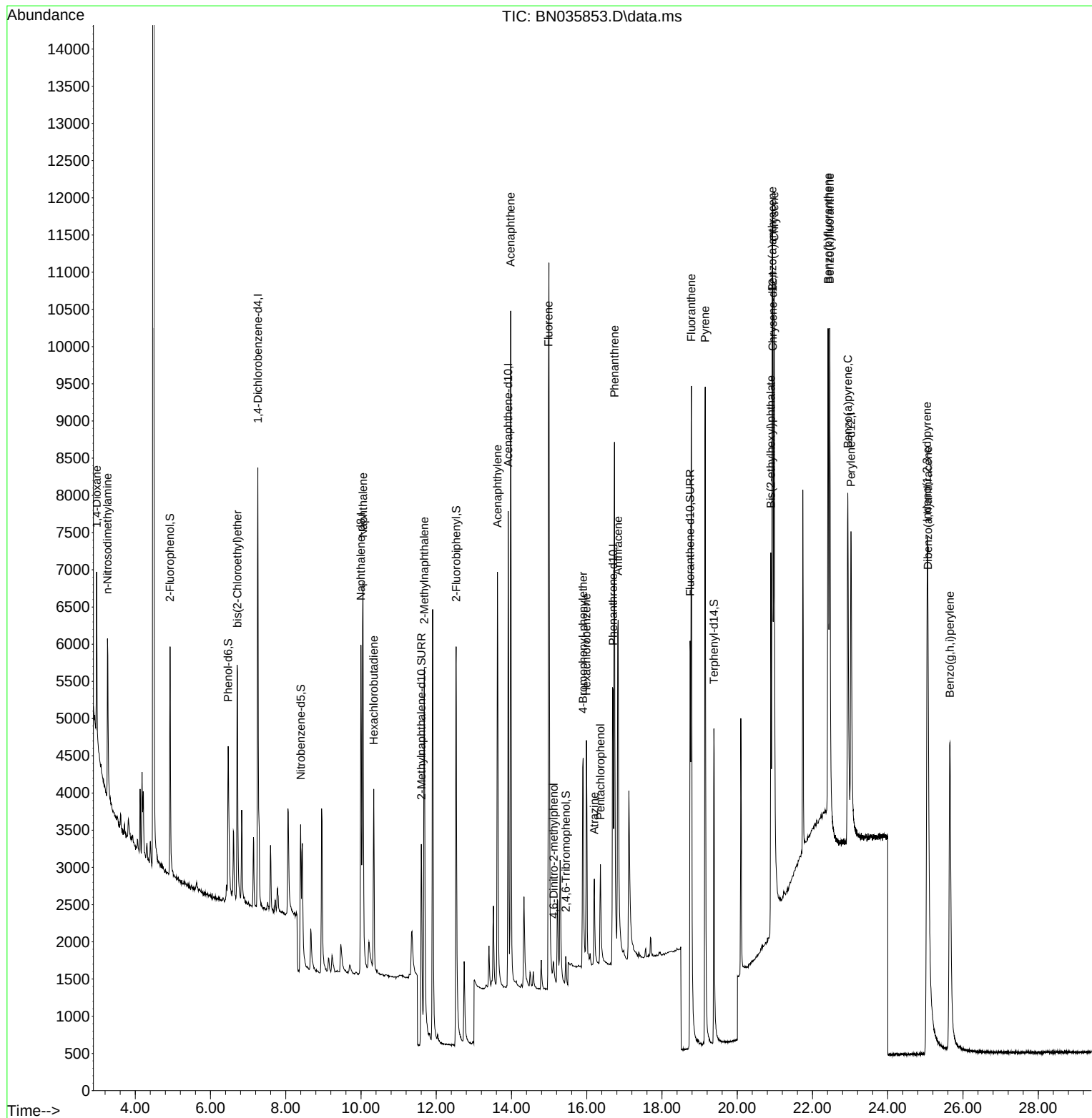
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2938	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	6908	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	3870	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	7401	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	5744	0.400	ng	# 0.00
35) Perylene-d12	23.024	264	6254	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	2679	0.364	ng	-0.01
5) Phenol-d6	6.470	99	2872	0.325	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2496	0.592	ng	-0.01
11) 2-Methylnaphthalene-d10	11.606	152	5721	0.529	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	445	0.162	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6817	0.466	ng	-0.02
27) Fluoranthene-d10	18.748	212	8300	0.396	ng	-0.01
31) Terphenyl-d14	19.379	244	5786	0.511	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.974	88	1269	0.452	ng	# 81
3) n-Nitrosodimethylamine	3.263	42	1206	0.516	ng	# 93
6) bis(2-Chloroethyl)ether	6.716	93	3004	0.404	ng	99
9) Naphthalene	10.052	128	8072	0.443	ng	99
10) Hexachlorobutadiene	10.340	225	1977	0.470	ng	# 98
12) 2-Methylnaphthalene	11.682	142	5041	0.386	ng	99
16) Acenaphthylene	13.625	152	7205	0.443	ng	99
17) Acenaphthene	13.978	154	4687	0.434	ng	100
18) Fluorene	14.983	166	5947	0.385	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	403	0.554	ng	# 71
21) 4-Bromophenyl-phenylether	15.904	248	1824	0.421	ng	# 94
22) Hexachlorobenzene	15.991	284	2652	0.522	ng	96
23) Atrazine	16.202	200	1370	0.445	ng	95
24) Pentachlorophenol	16.363	266	985	0.445	ng	88
25) Phenanthrene	16.736	178	8677	0.427	ng	100
26) Anthracene	16.835	178	7654	0.416	ng	99
28) Fluoranthene	18.780	202	9853	0.360	ng	99
30) Pyrene	19.147	202	10152	0.479	ng	100
32) Benzo(a)anthracene	20.929	228	7921	0.394	ng	99
33) Chrysene	20.983	228	10214	0.493	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	3576	0.451	ng	99
36) Indeno(1,2,3-cd)pyrene	25.047	276	12472	0.510	ng	100
37) Benzo(b)fluoranthene	22.416	252	13352	0.584	ng	# 93
38) Benzo(k)fluoranthene	22.456	252	10641	0.473	ng	# 93
39) Benzo(a)pyrene	22.939	252	9066	0.481	ng	# 88
40) Dibenzo(a,h)anthracene	25.070	278	9318	0.483	ng	93
41) Benzo(g,h,i)perylene	25.652	276	10352	0.513	ng	97

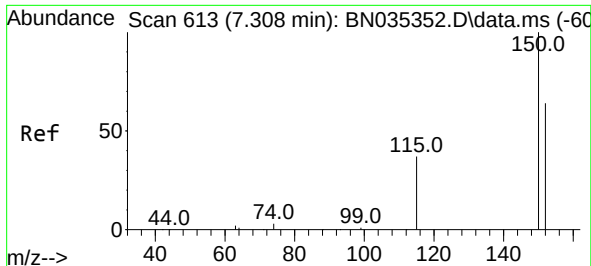
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035853.D
Acq On : 26 Dec 2024 14:54
Operator : RC/JU
Sample : PB165724BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

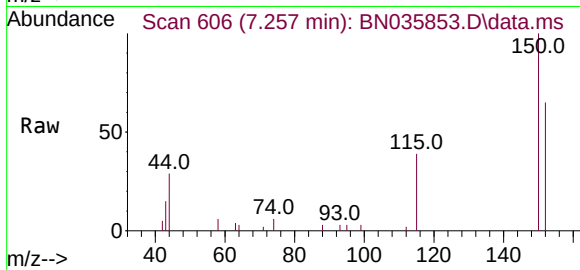
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



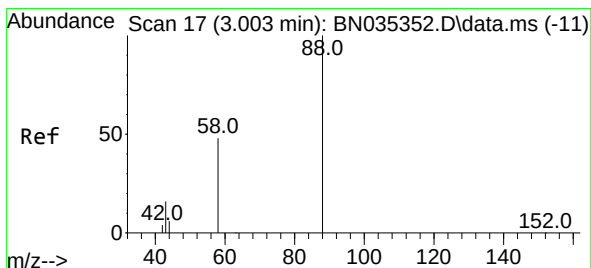
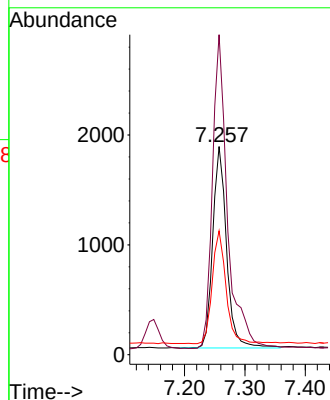
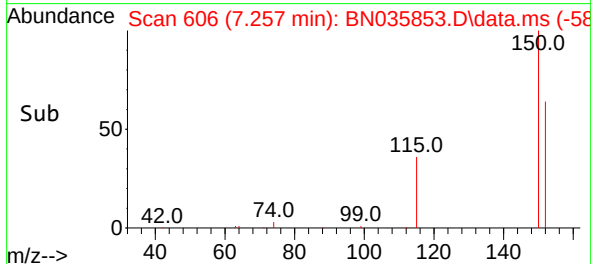


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

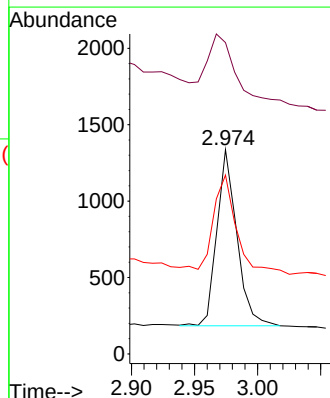
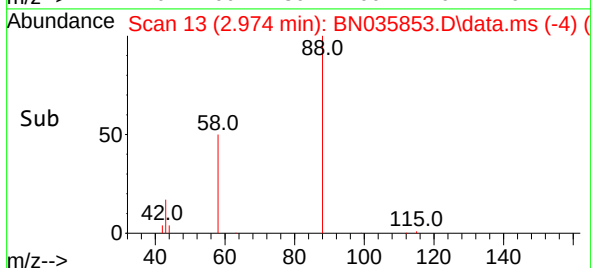
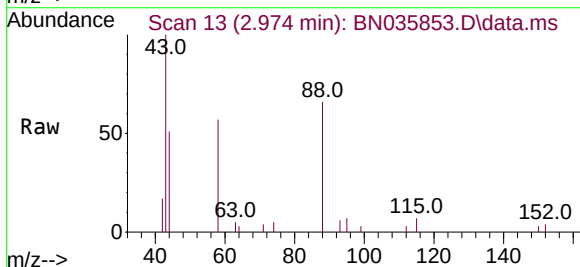


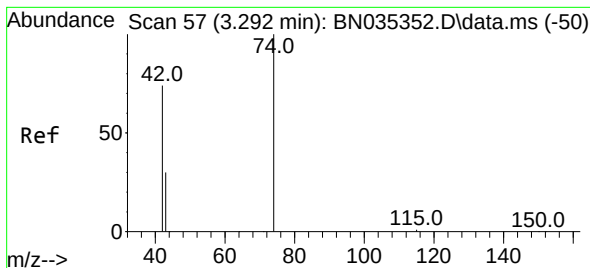
Tgt Ion:152 Resp: 2938
Ion Ratio Lower Upper
152 100
150 153.7 124.0 186.0
115 59.5 49.6 74.4



#2
1,4-Dioxane
Concen: 0.452 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 88 Resp: 1269
Ion Ratio Lower Upper
88 100
43 50.4 17.2 25.8#
58 57.4 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.516 ng

RT: 3.263 min Scan# 51

Delta R.T. -0.014 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

Instrument :

BNA_N

ClientSampleId :

PB165724BSD

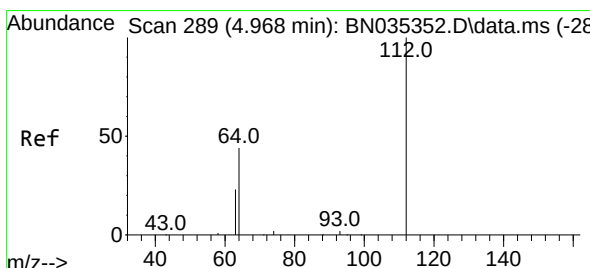
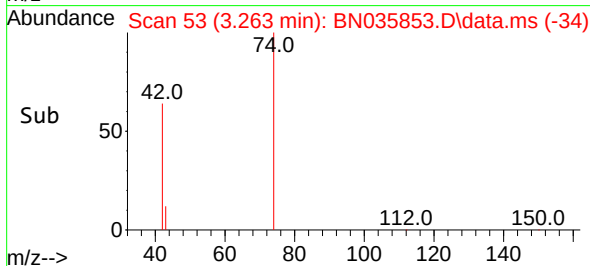
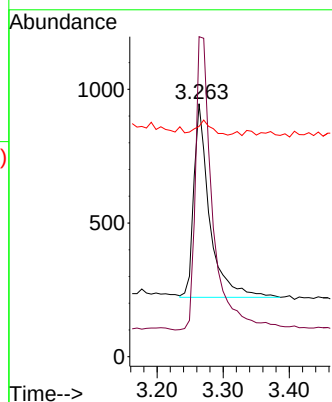
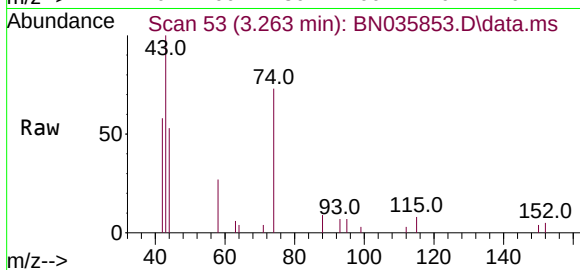
Tgt Ion: 42 Resp: 1206

Ion Ratio Lower Upper

42 100

74 165.3 124.9 187.3

44 6.5 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.364 ng

RT: 4.925 min Scan# 283

Delta R.T. -0.014 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

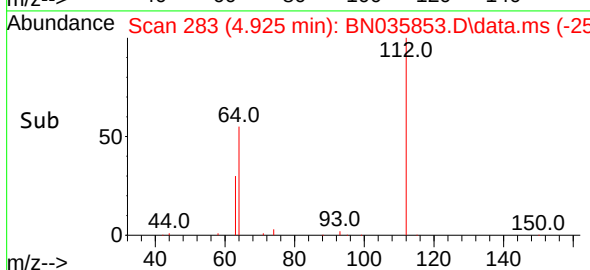
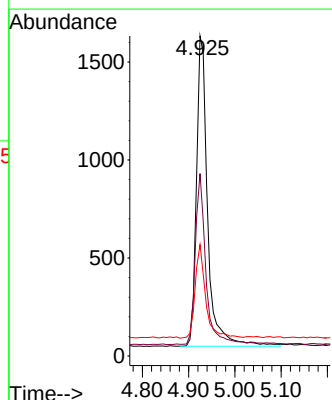
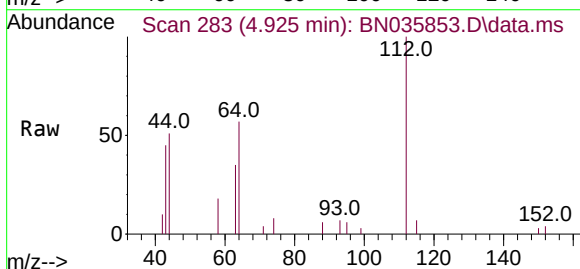
Tgt Ion: 112 Resp: 2679

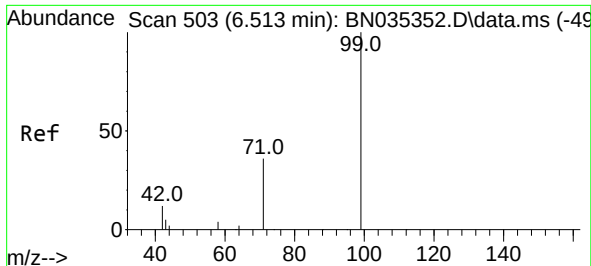
Ion Ratio Lower Upper

112 100

64 51.6 39.8 59.8

63 28.3 21.0 31.6

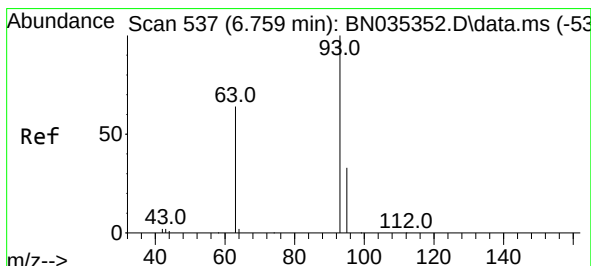
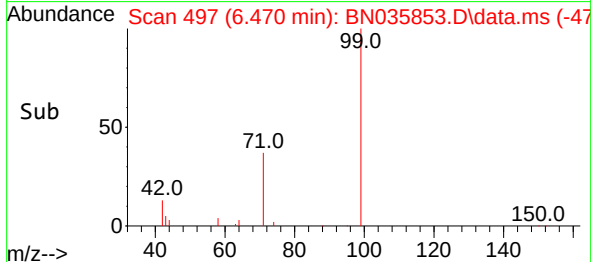
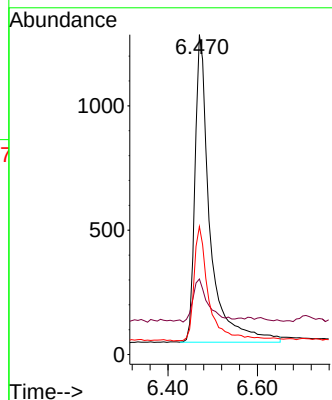
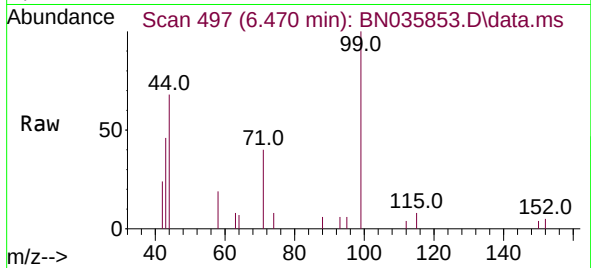




#5
Phenol-d6
Concen: 0.325 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

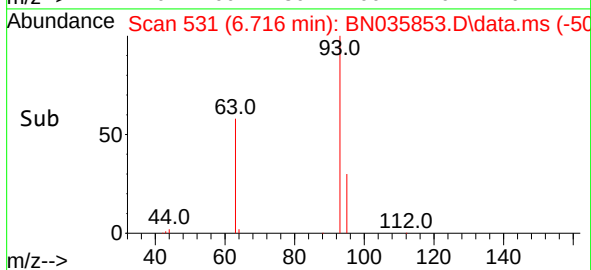
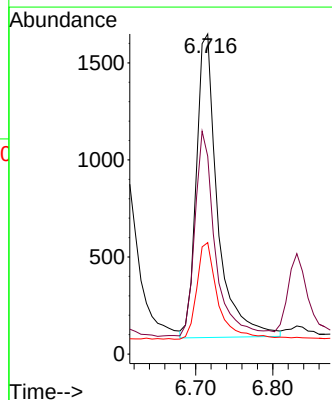
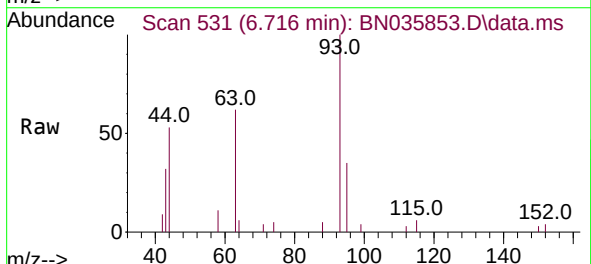
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

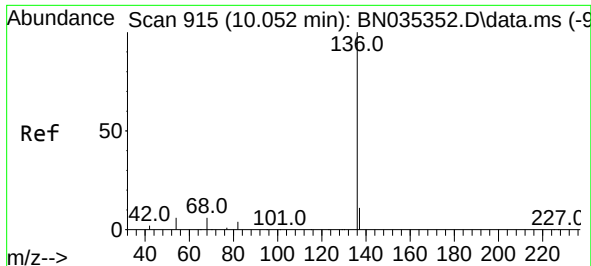
Tgt Ion:	99	Resp:	2872
Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	36.4	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:	93	Resp:	3004
Ion	Ratio	Lower	Upper
93	100		
63	64.0	50.4	75.6
95	32.8	25.7	38.5

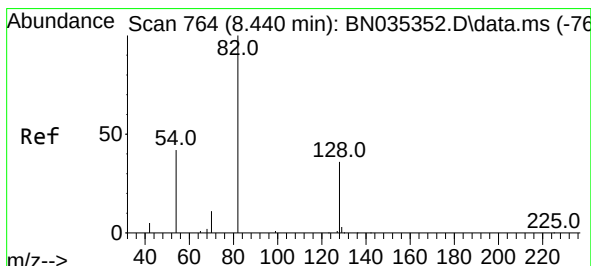
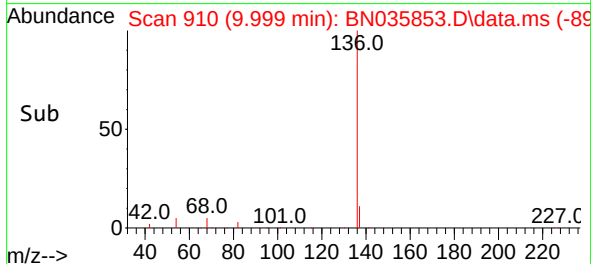
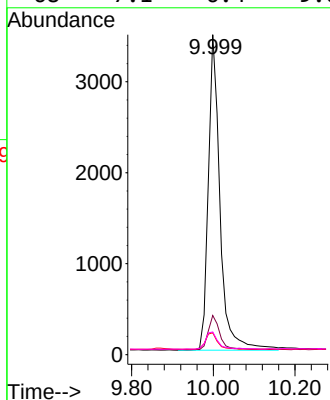
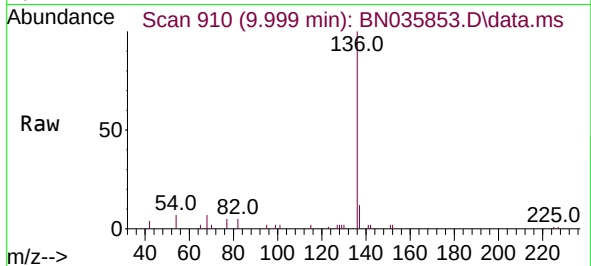




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

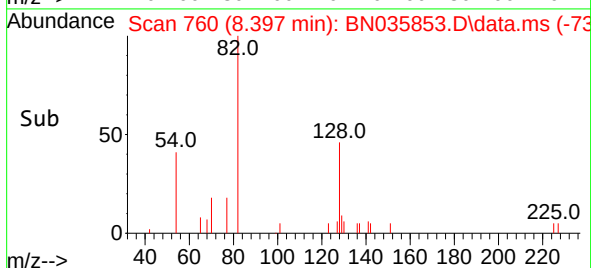
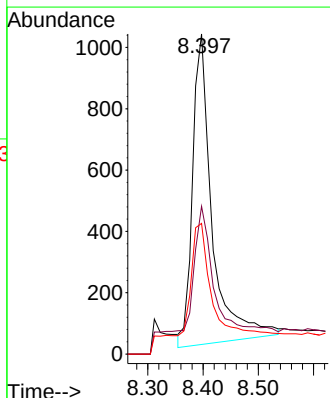
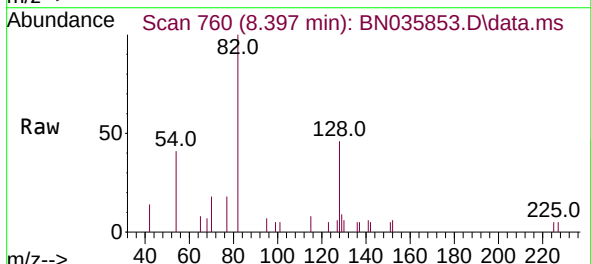
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

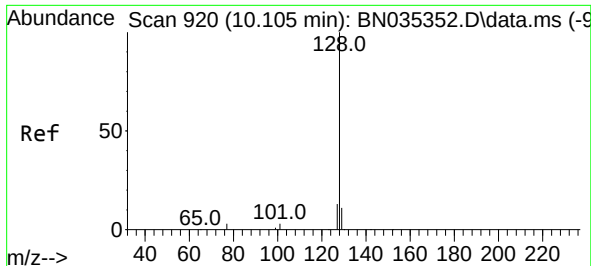
Tgt Ion:	136	Resp:	6908
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.592 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:	82	Resp:	2496
Ion	Ratio	Lower	Upper
82	100		
128	46.2	33.4	50.0
54	40.8	36.7	55.1

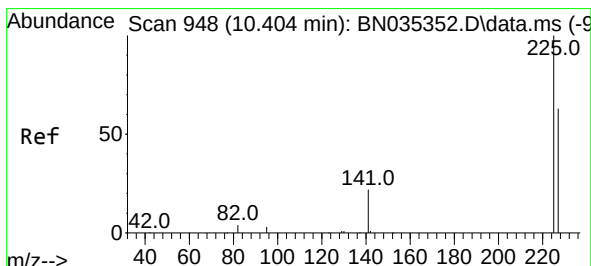
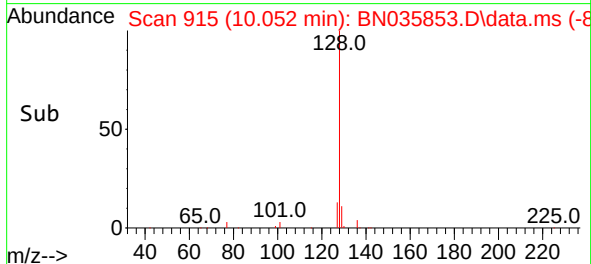
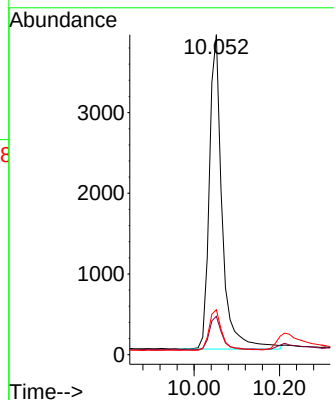
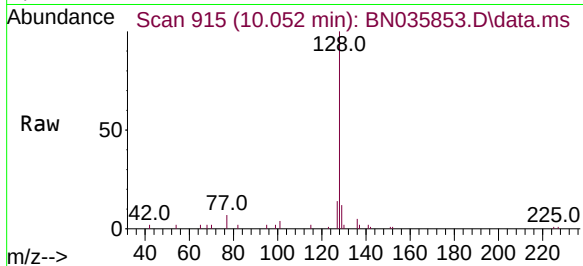




#9
Naphthalene
Concen: 0.443 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

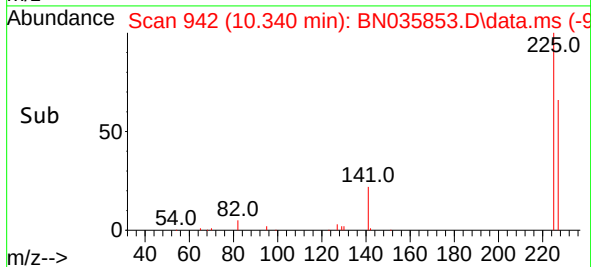
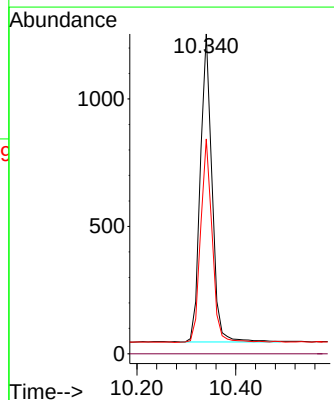
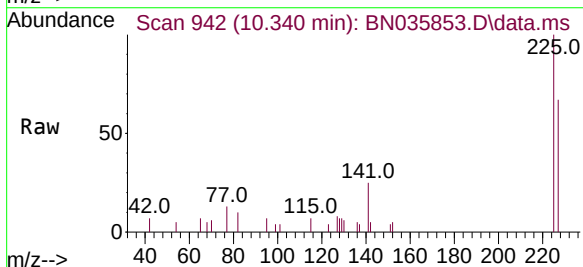
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

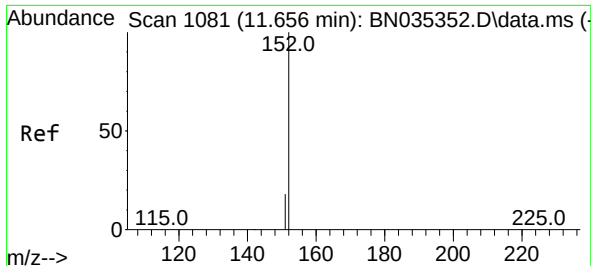
Tgt Ion:128 Resp: 8072
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.0 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.470 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:225 Resp: 1977
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 51.3 76.9

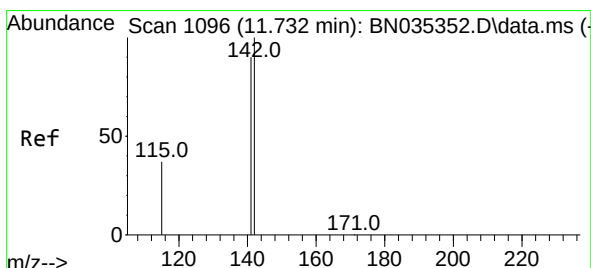
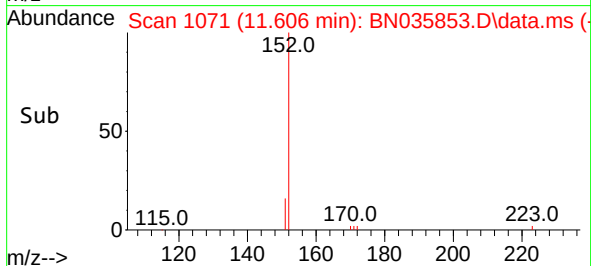
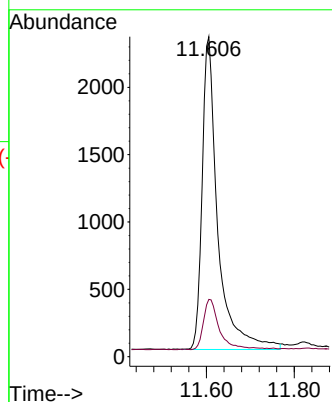
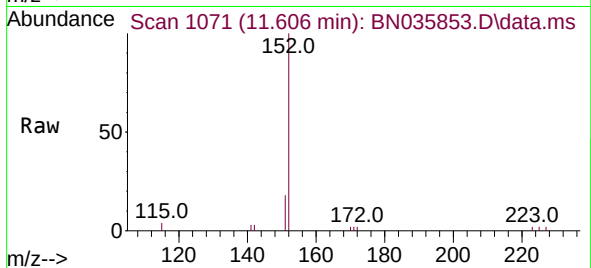




#11
2-Methylnaphthalene-d10
Concen: 0.529 ng
RT: 11.606 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

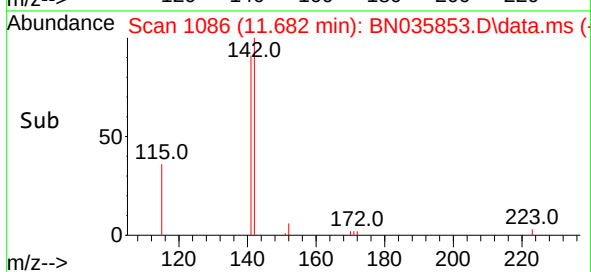
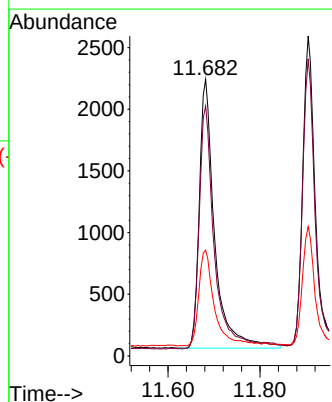
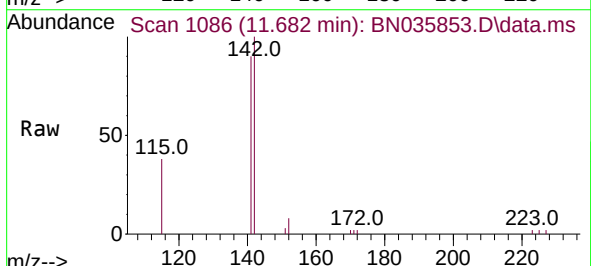
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

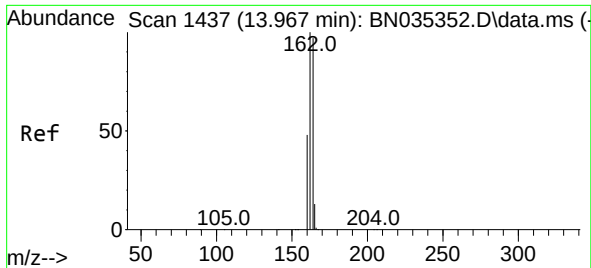
Tgt Ion:152 Resp: 5721
Ion Ratio Lower Upper
152 100
151 16.5 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

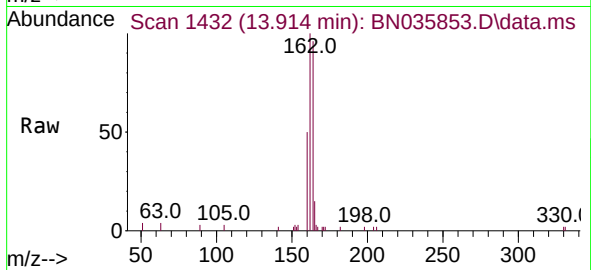
Tgt Ion:142 Resp: 5041
Ion Ratio Lower Upper
142 100
141 90.4 72.2 108.4
115 38.3 31.4 47.0



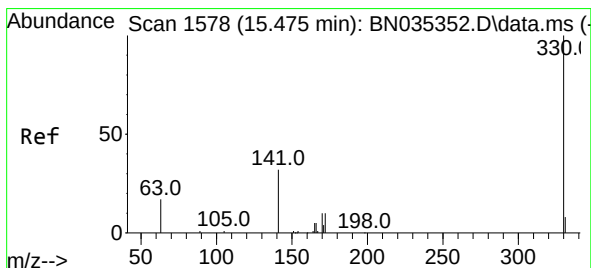
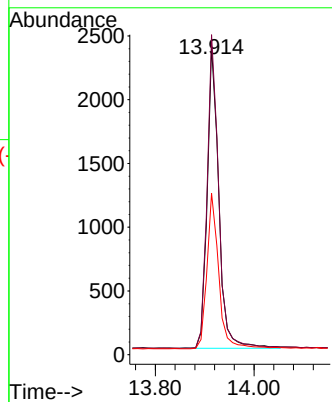
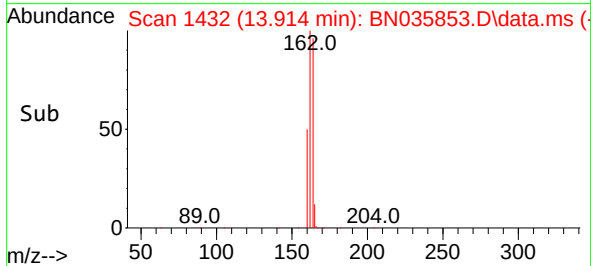


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

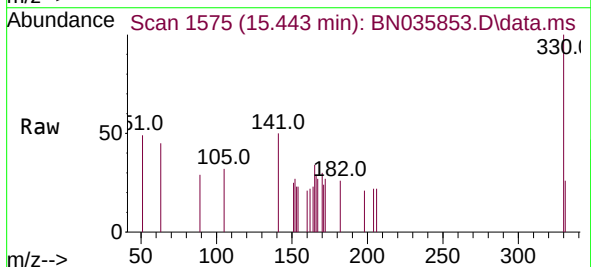
Instrument :
BNA_N
ClientSampleId :
PB165724BSD



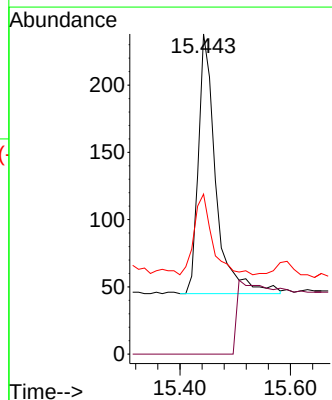
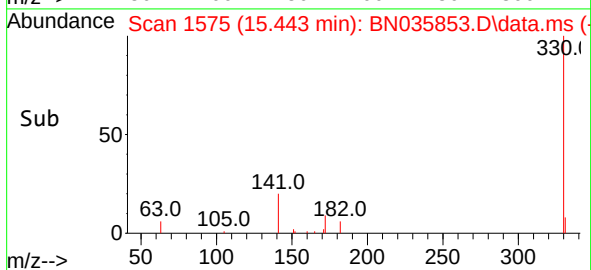
Tgt Ion:164 Resp: 3870
Ion Ratio Lower Upper
164 100
162 104.0 82.2 123.2
160 52.5 40.1 60.1

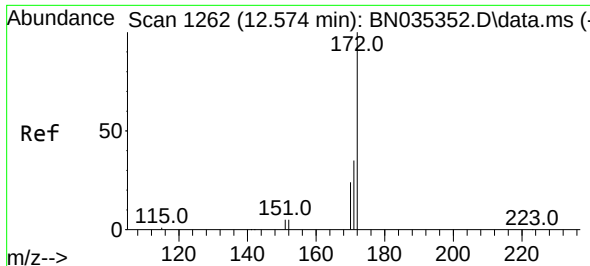


#14
2,4,6-Tribromophenol
Concen: 0.162 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54



Tgt Ion:330 Resp: 445
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 31.2 26.6 40.0

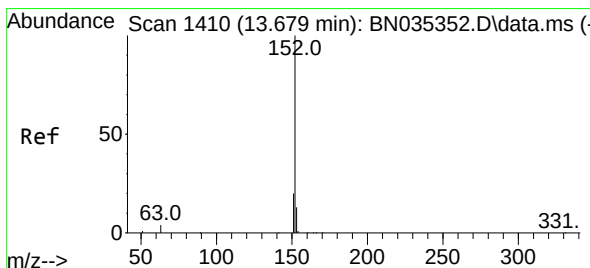
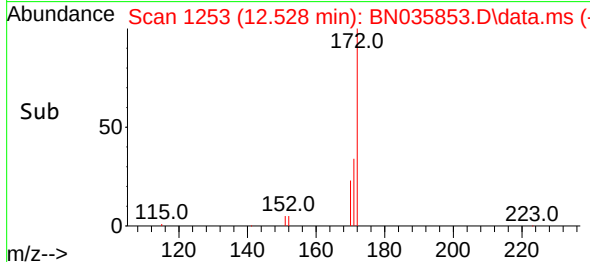
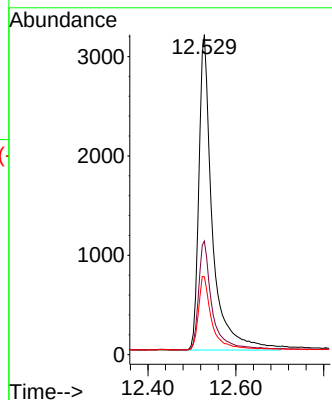
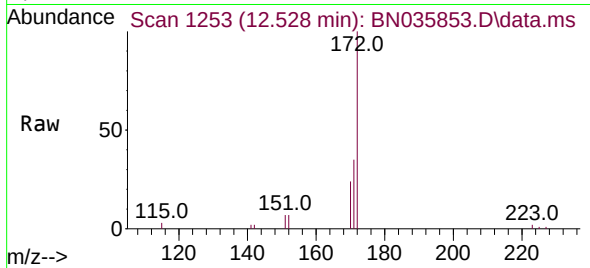




#15
2-Fluorobiphenyl
Concen: 0.466 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

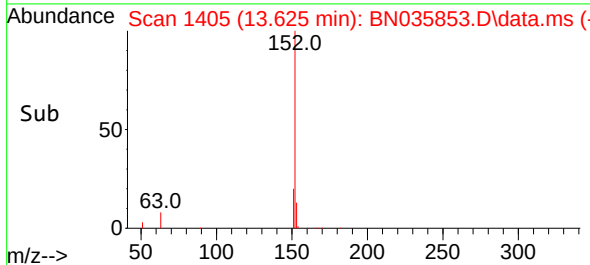
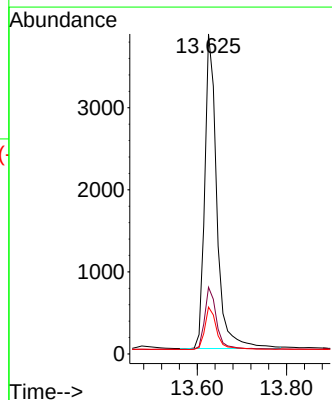
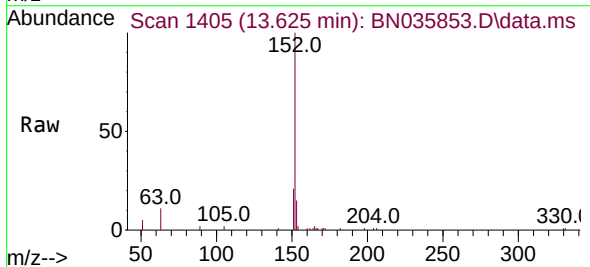
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

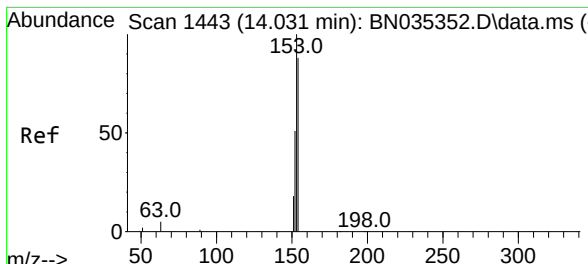
Tgt Ion:172	Resp:	6817
Ion Ratio	Lower	Upper
172	100	
171	35.5	29.0 43.4
170	24.3	19.8 29.8



#16
Acenaphthylene
Concen: 0.443 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:152	Resp:	7205
Ion Ratio	Lower	Upper
152	100	
151	20.0	16.2 24.2
153	13.3	10.4 15.6



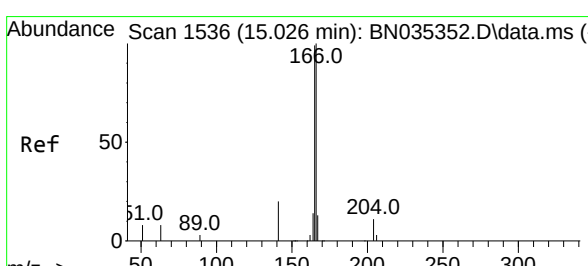
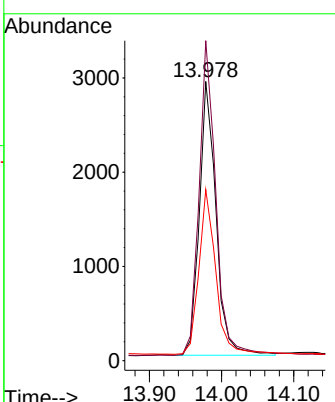
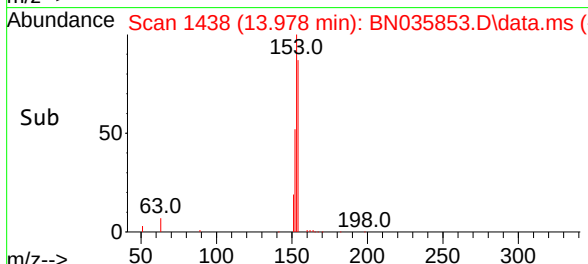
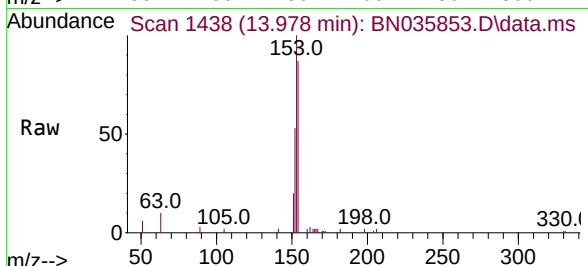


#17
 Acenaphthene
 Concen: 0.434 ng
 RT: 13.978 min Scan# 14
 Delta R.T. -0.021 min
 Lab File: BN035853.D
 Acq: 26 Dec 2024 14:54

Instrument :
 BNA_N
 ClientSampleId :
 PB165724BSD

Tgt Ion:154 Resp: 4687

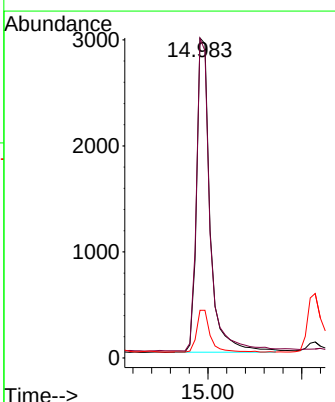
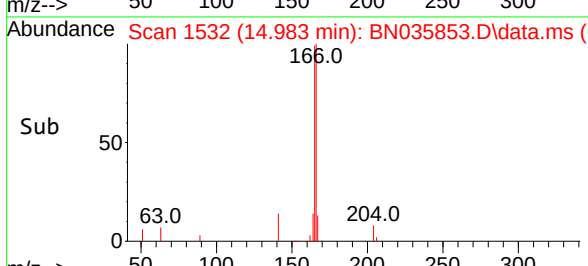
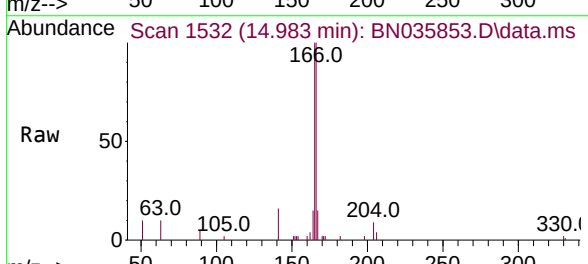
Ion	Ratio	Lower	Upper
154	100		
153	116.4	92.6	139.0
152	61.2	49.0	73.6

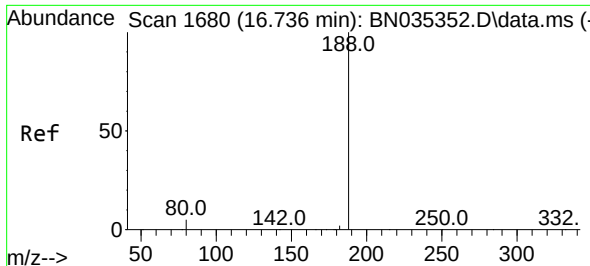


#18
 Fluorene
 Concen: 0.385 ng
 RT: 14.983 min Scan# 1532
 Delta R.T. -0.021 min
 Lab File: BN035853.D
 Acq: 26 Dec 2024 14:54

Tgt Ion:166 Resp: 5947

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	13.3	10.8	16.2

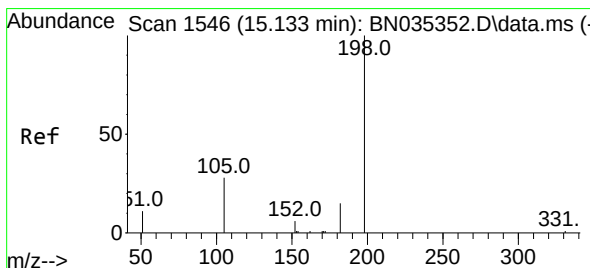
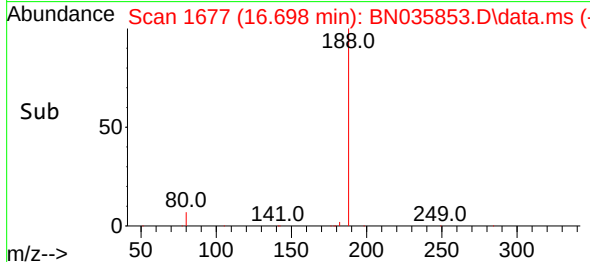
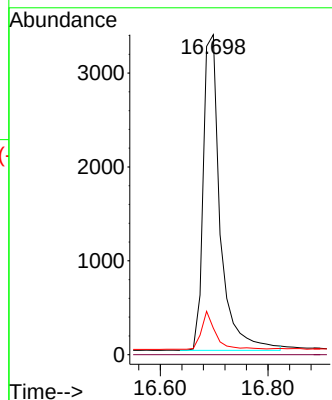
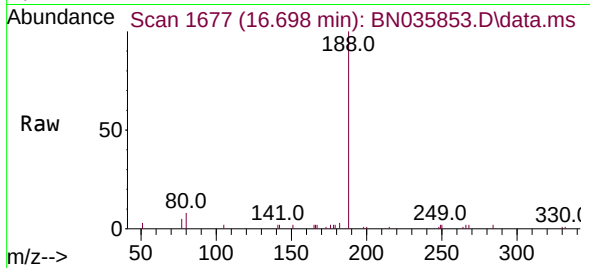




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

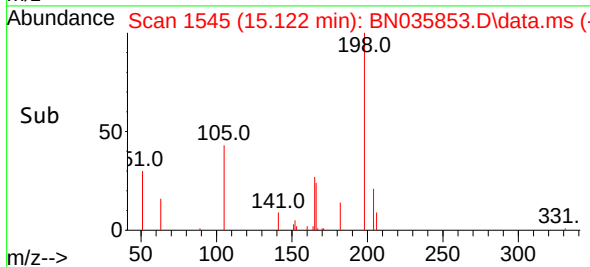
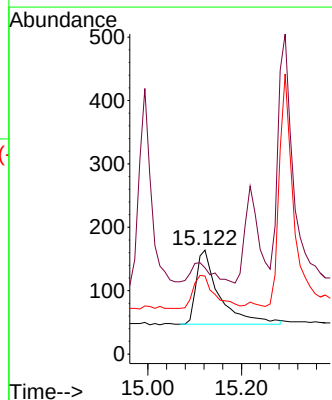
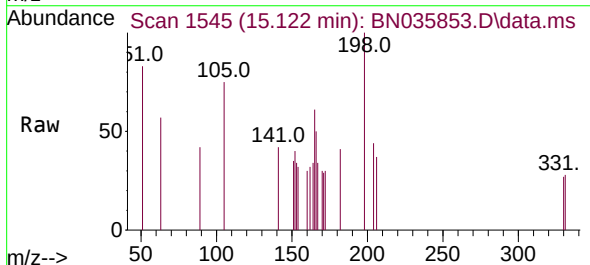
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

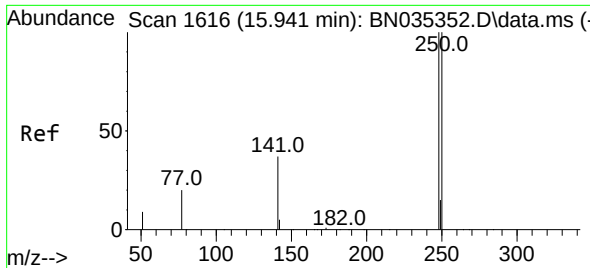
Tgt Ion:188 Resp: 7401
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.6 6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.554 ng
RT: 15.122 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:198 Resp: 403
Ion Ratio Lower Upper
198 100
51 82.9 46.5 69.7#
105 75.0 45.3 67.9#

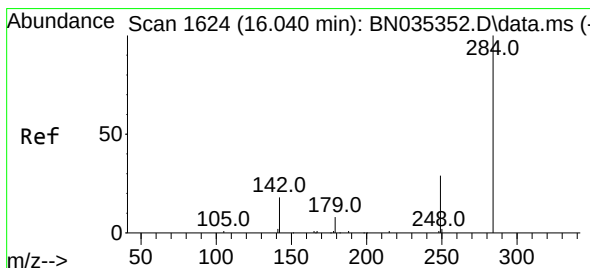
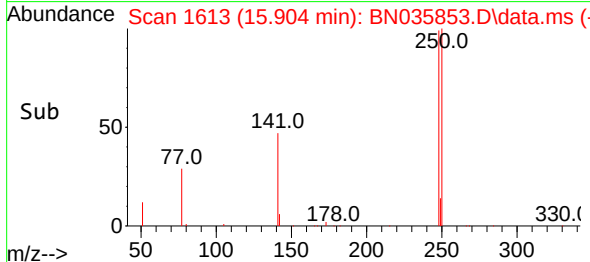
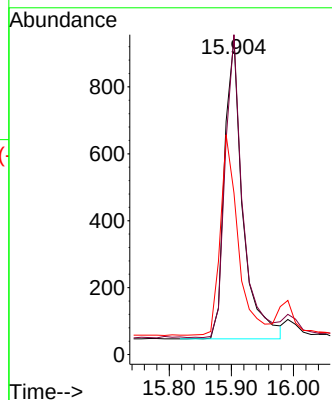
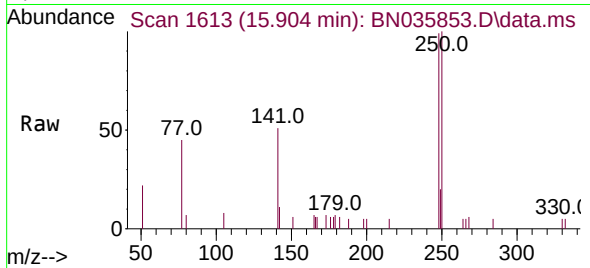




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

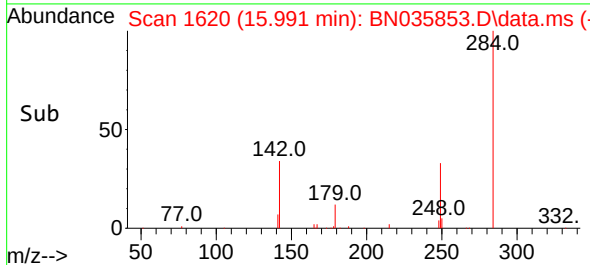
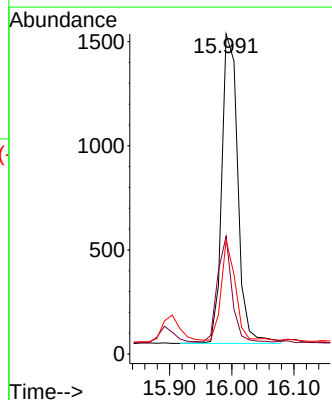
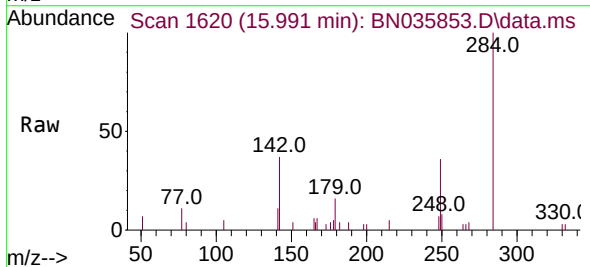
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

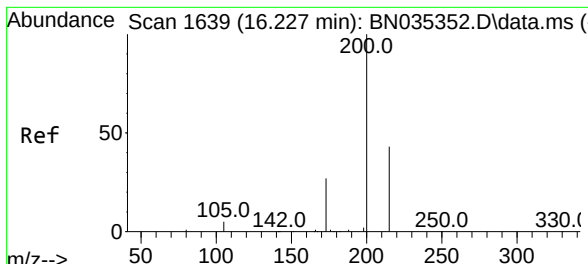
Tgt Ion:248 Resp: 1824
Ion Ratio Lower Upper
248 100
250 101.3 80.6 120.8
141 51.2 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.522 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:284 Resp: 2652
Ion Ratio Lower Upper
284 100
142 30.7 26.7 40.1
249 28.9 24.6 36.8

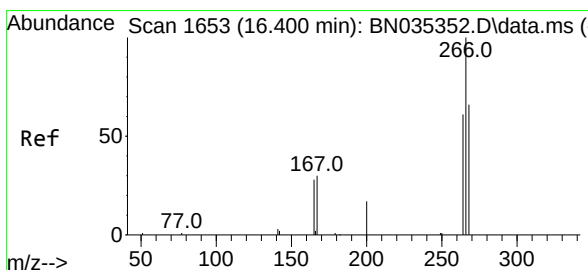
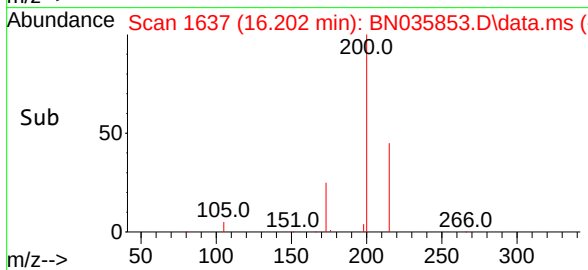
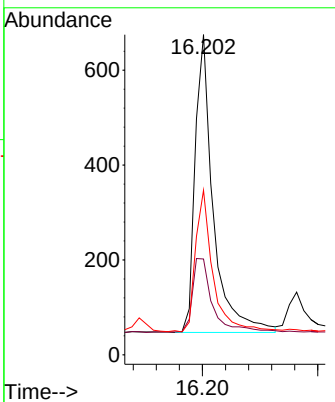
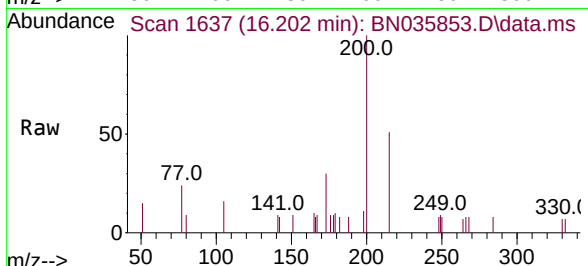




#23
 Atrazine
 Concen: 0.445 ng
 RT: 16.202 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: BN035853.D
 Acq: 26 Dec 2024 14:54

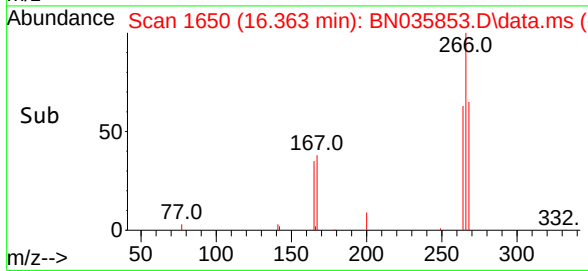
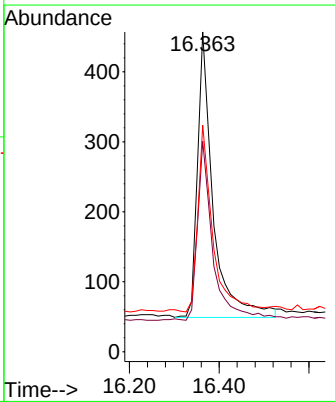
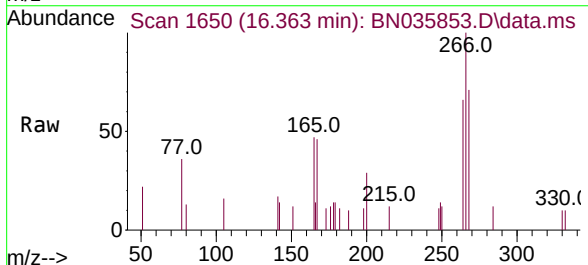
Instrument :
 BNA_N
 ClientSampleId :
 PB165724BSD

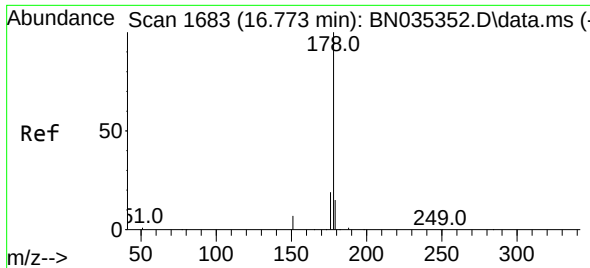
Tgt Ion:	200	Resp:	1370
Ion Ratio	Lower	Upper	
200	100		
173	29.9	24.1	36.1
215	51.4	36.9	55.3



#24
 Pentachlorophenol
 Concen: 0.445 ng
 RT: 16.363 min Scan# 1650
 Delta R.T. -0.012 min
 Lab File: BN035853.D
 Acq: 26 Dec 2024 14:54

Tgt Ion:	266	Resp:	985
Ion Ratio	Lower	Upper	
266	100		
264	62.0	42.3	63.5
268	61.4	43.3	64.9

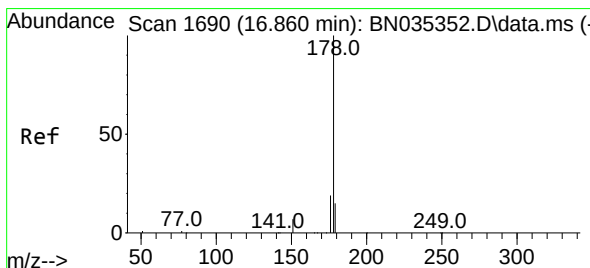
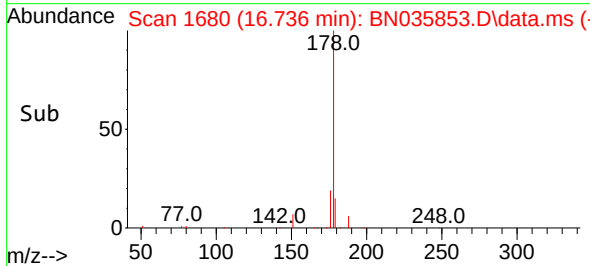
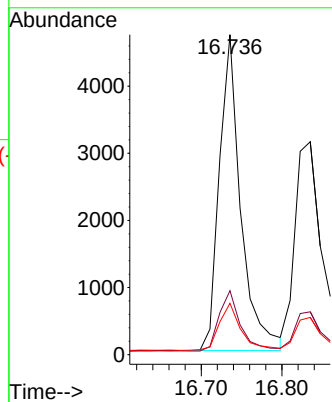
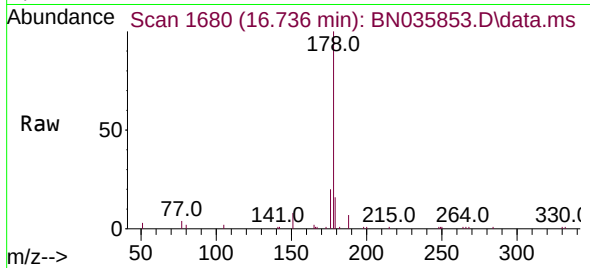




#25
Phenanthrene
Concen: 0.427 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

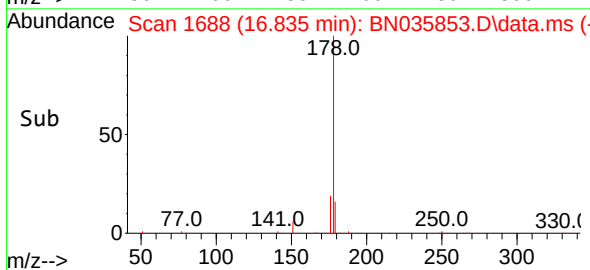
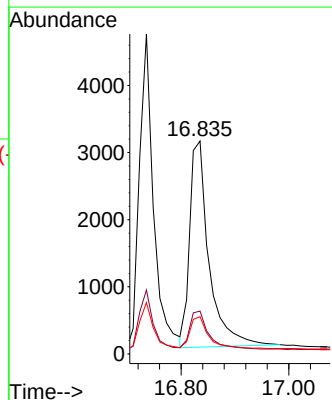
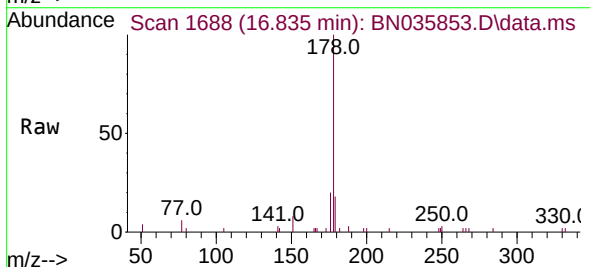
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

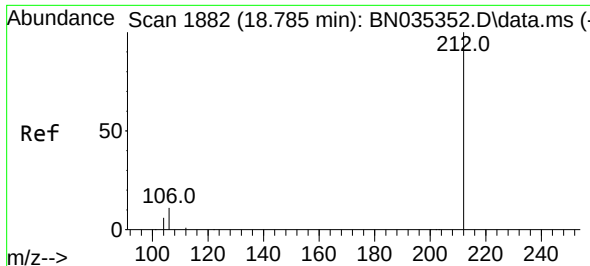
Tgt Ion:178 Resp: 8677
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.416 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:178 Resp: 7654
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.3 12.6 18.8

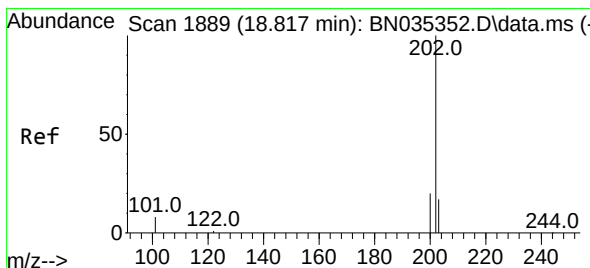
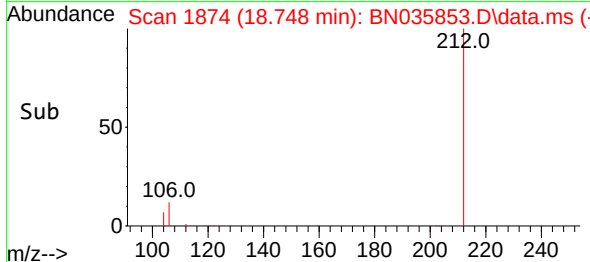
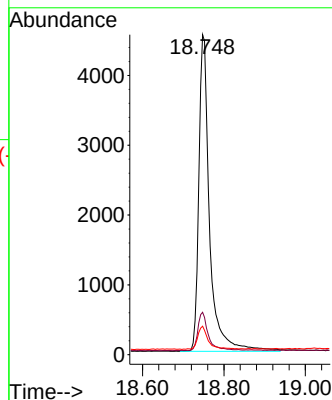
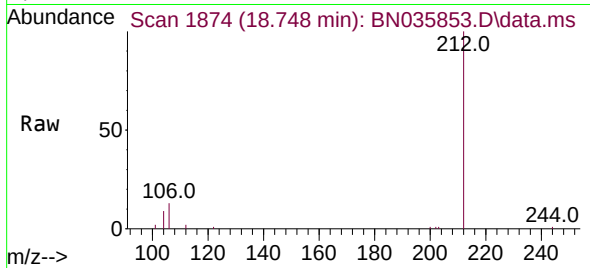




#27
Fluoranthene-d10
Concen: 0.396 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

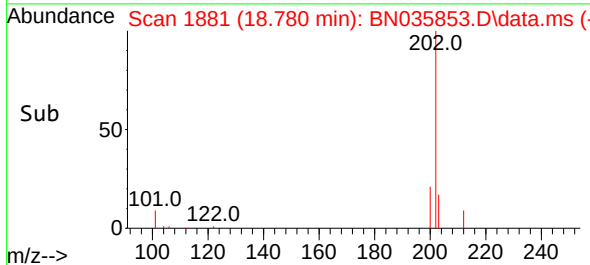
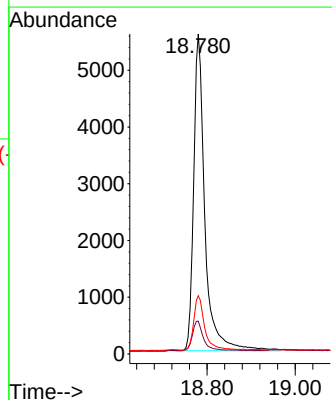
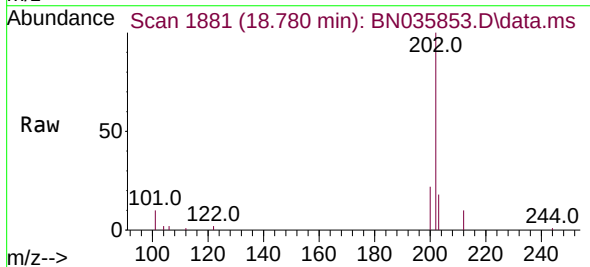
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

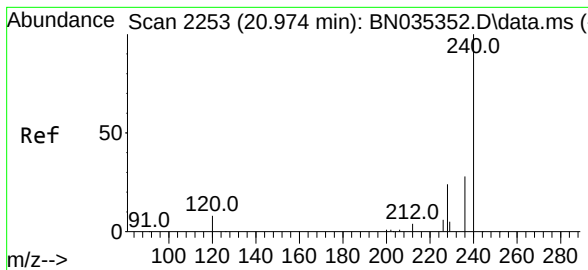
Tgt Ion:212 Resp: 8300
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 7.2 5.3 7.9



#28
Fluoranthene
Concen: 0.360 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:202 Resp: 9853
Ion Ratio Lower Upper
202 100
101 9.0 7.4 11.0
203 16.6 13.7 20.5

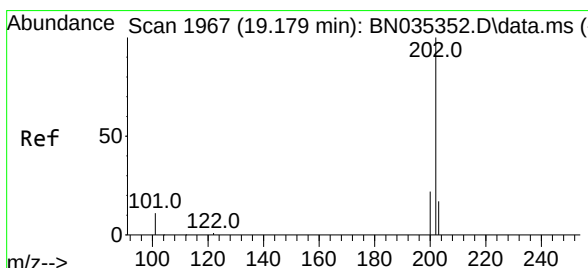
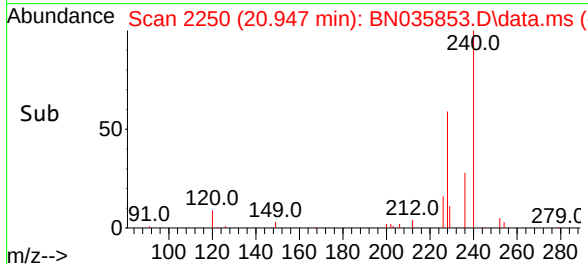
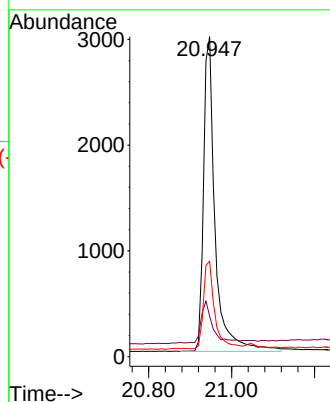
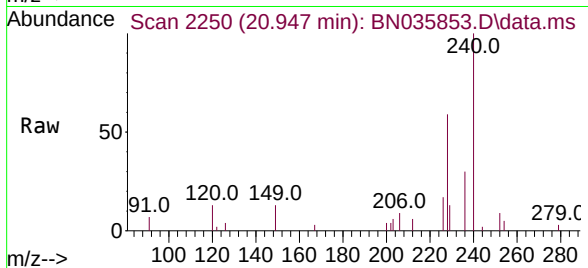




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

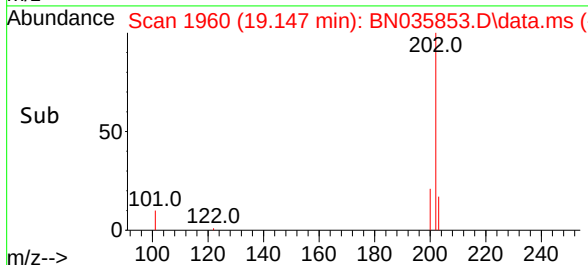
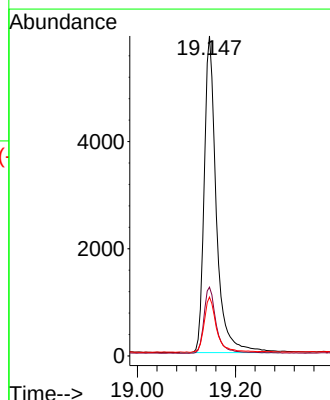
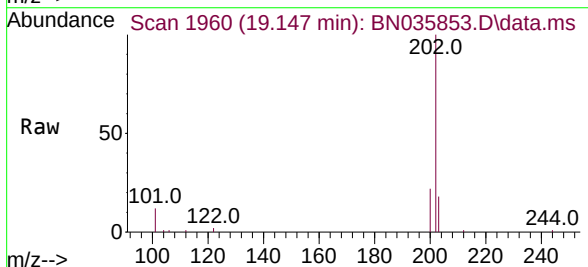
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

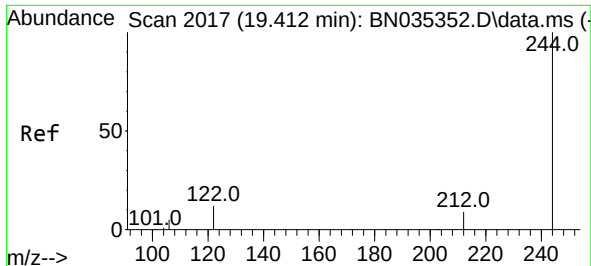
Tgt Ion:240 Resp: 5744
Ion Ratio Lower Upper
240 100
120 12.7 7.9 11.9#
236 29.8 22.9 34.3



#30
Pyrene
Concen: 0.479 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:202 Resp: 10152
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.7 14.3 21.5

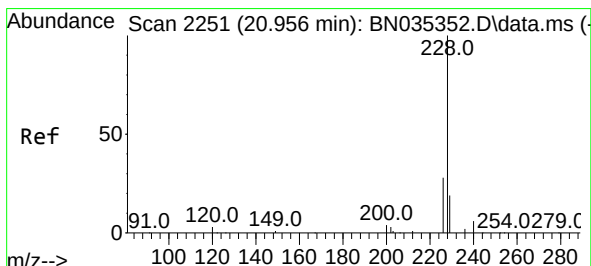
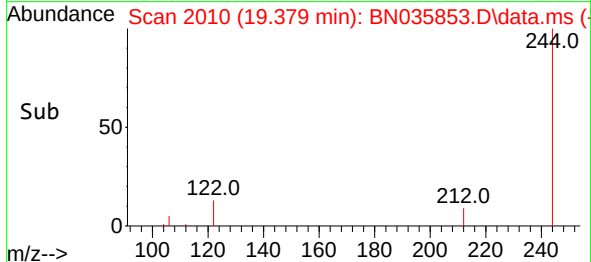
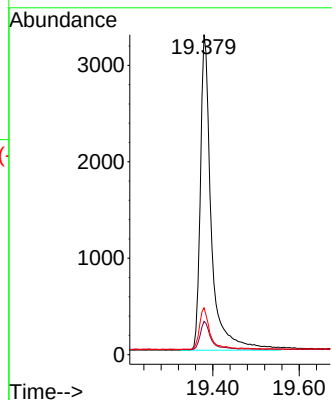
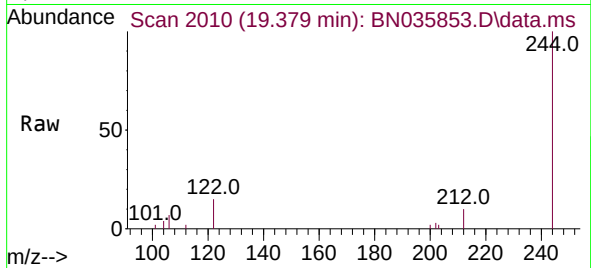




#31
Terphenyl-d14
Concen: 0.511 ng
RT: 19.379 min Scan# 2017
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

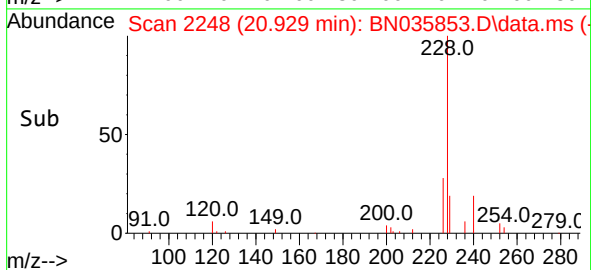
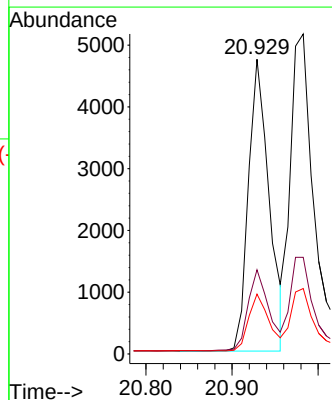
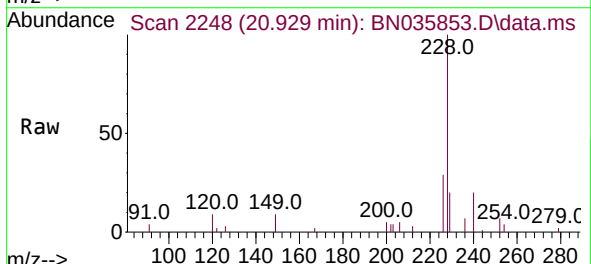
Instrument :
BNA_N
ClientSampleId :
PB165724BSD

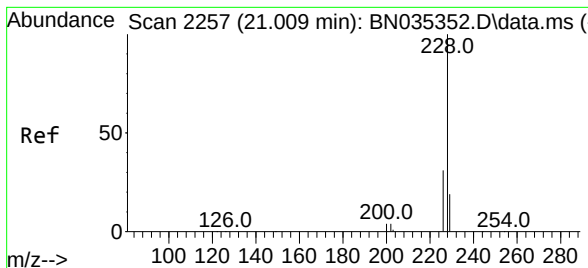
Tgt Ion:244 Resp: 5786
Ion Ratio Lower Upper
244 100
212 10.4 8.1 12.1
122 14.6 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:228 Resp: 7921
Ion Ratio Lower Upper
228 100
226 28.6 22.5 33.7
229 20.3 15.8 23.8





#33

Chrysene

Concen: 0.493 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

Instrument :

BNA_N

ClientSampleId :

PB165724BSD

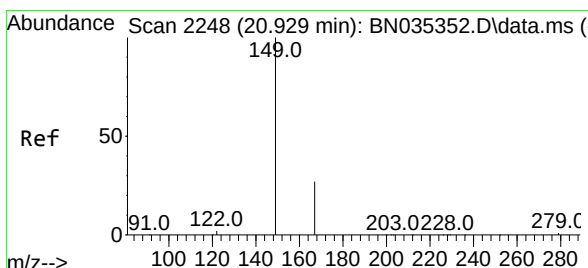
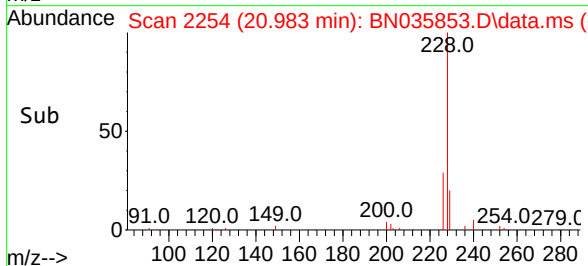
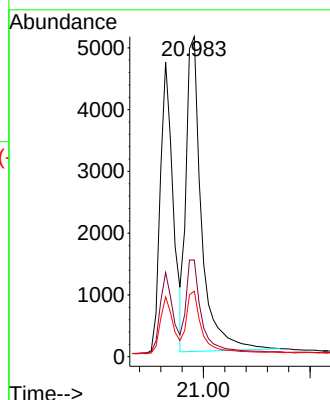
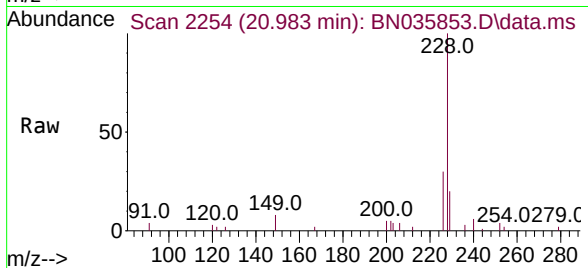
Tgt Ion:228 Resp: 10214

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

229 20.5 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.451 ng

RT: 20.893 min Scan# 2244

Delta R.T. -0.018 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

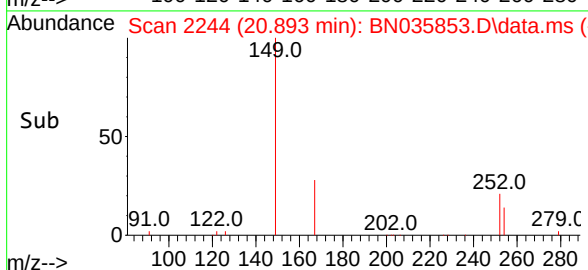
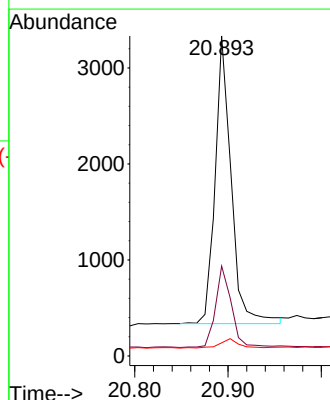
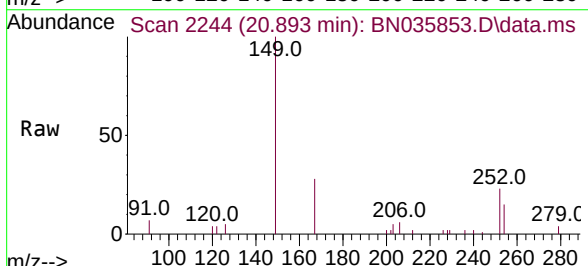
Tgt Ion:149 Resp: 3576

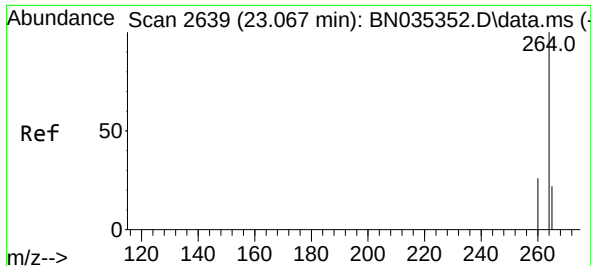
Ion Ratio Lower Upper

149 100

167 28.4 22.2 33.4

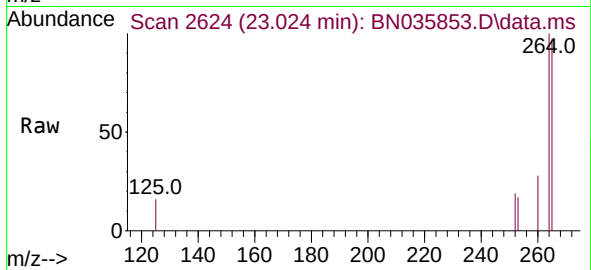
279 3.7 2.7 4.1



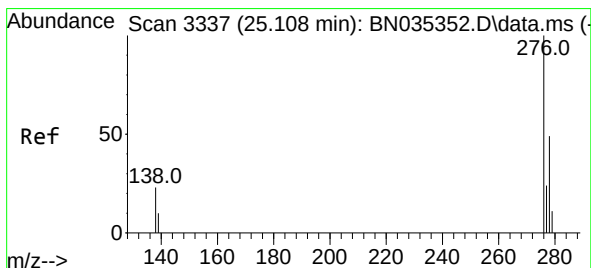
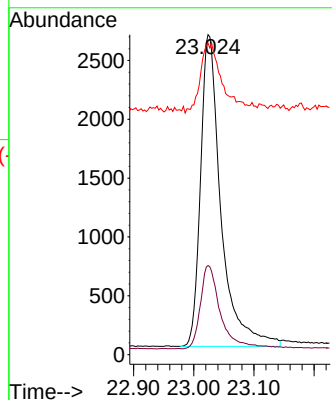
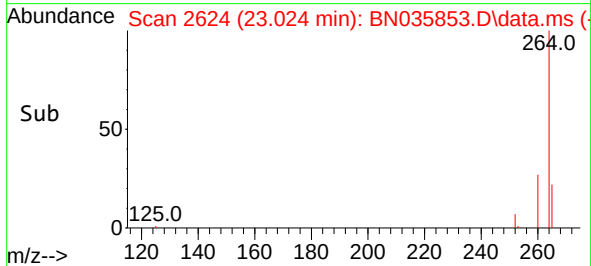


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 20
Delta R.T. -0.018 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

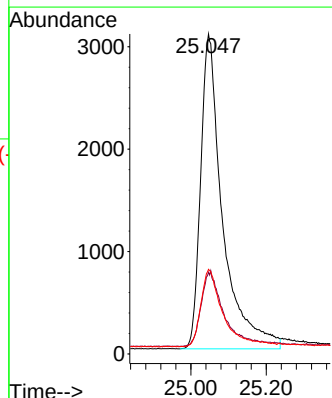
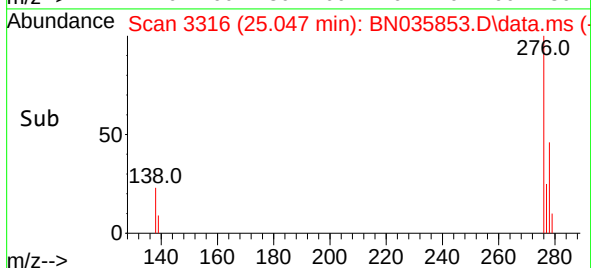
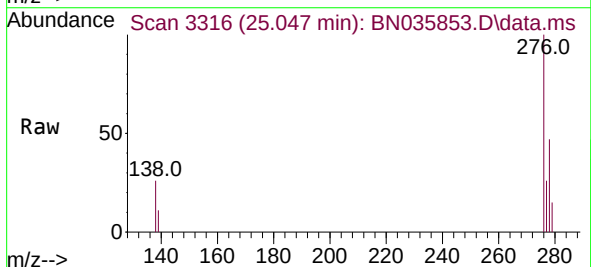


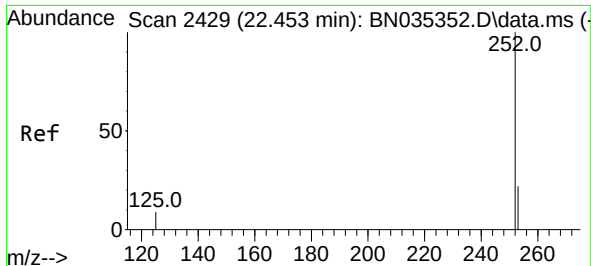
Tgt Ion:264 Resp: 6254
Ion Ratio Lower Upper
264 100
260 27.8 21.4 32.2
265 97.4 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.510 ng
RT: 25.047 min Scan# 3316
Delta R.T. -0.020 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

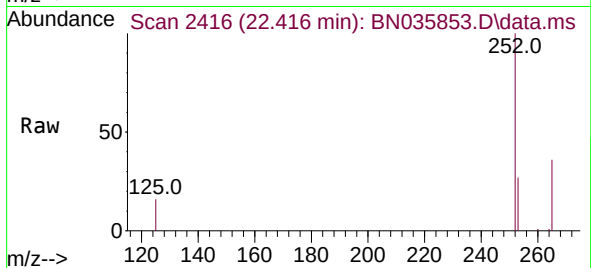
Tgt Ion:276 Resp: 12472
Ion Ratio Lower Upper
276 100
138 23.9 19.4 29.0
277 24.8 19.8 29.6



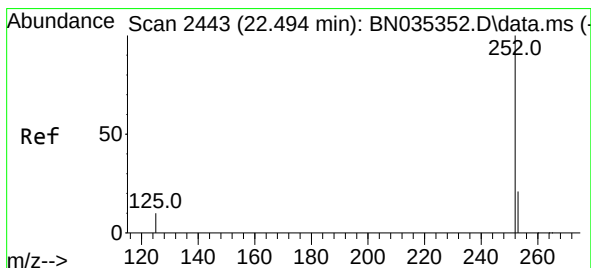
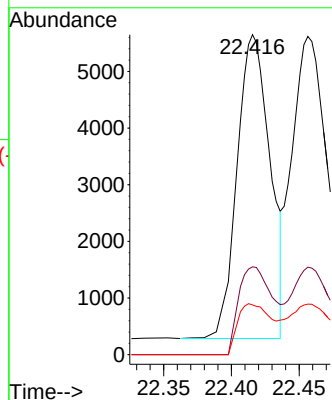


#37
Benzo(b)fluoranthene
Concen: 0.584 ng
RT: 22.416 min Scan# 2416
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

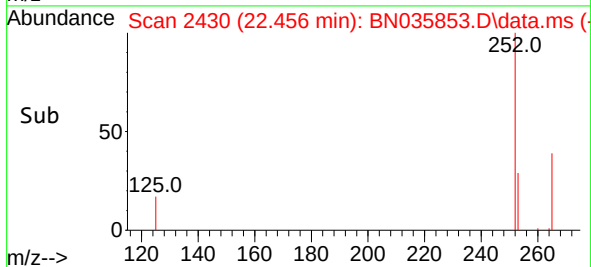
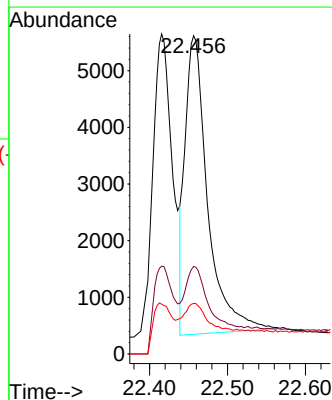
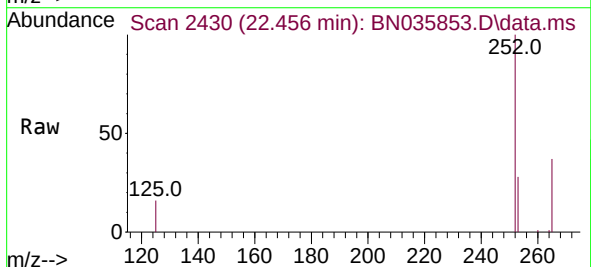


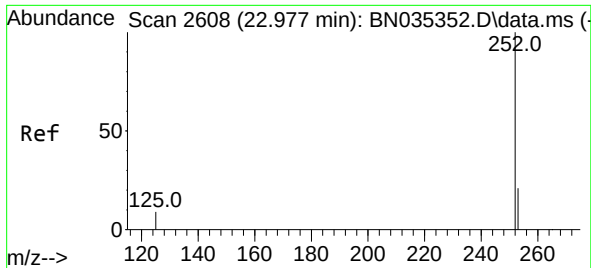
Tgt Ion:252 Resp: 13352
Ion Ratio Lower Upper
252 100
253 27.5 19.6 29.4
125 15.6 9.6 14.4#



#38
Benzo(k)fluoranthene
Concen: 0.473 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:252 Resp: 10641
Ion Ratio Lower Upper
252 100
253 27.5 19.5 29.3
125 15.9 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.481 ng

RT: 22.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

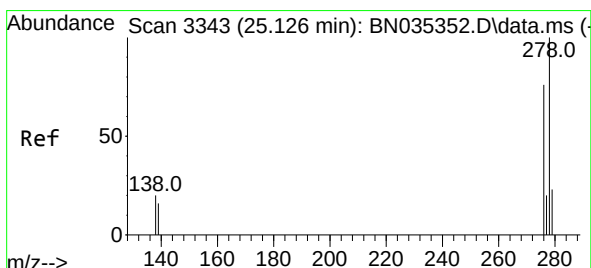
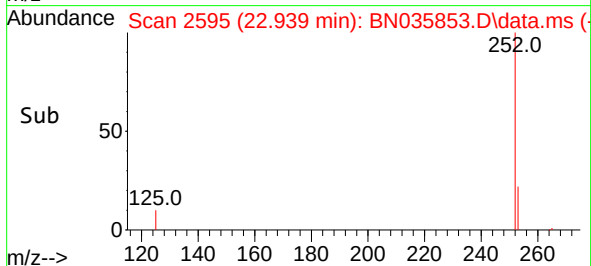
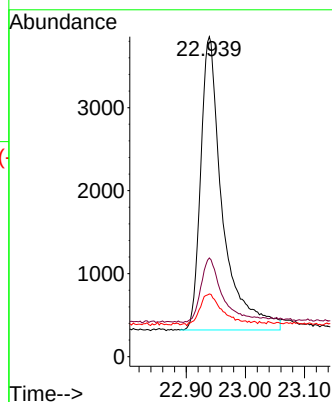
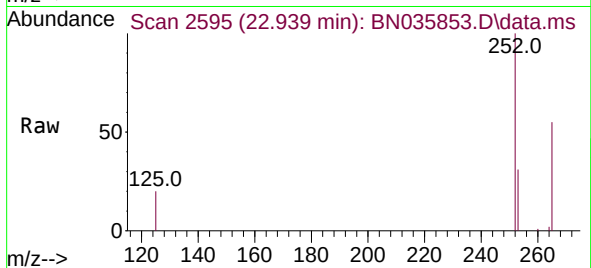
Instrument :

BNA_N

ClientSampleId :

PB165724BSD

Tgt Ion:252	Resp:	9066
Ion	Ratio	Lower Upper
252	100	
253	30.9	20.2 30.4#
125	19.6	10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.483 ng

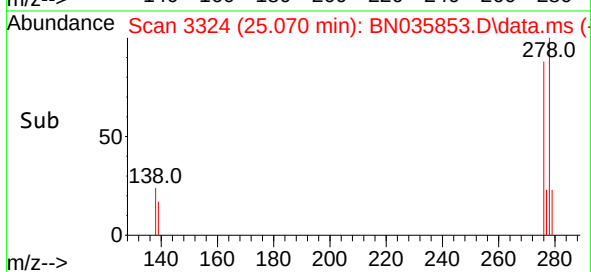
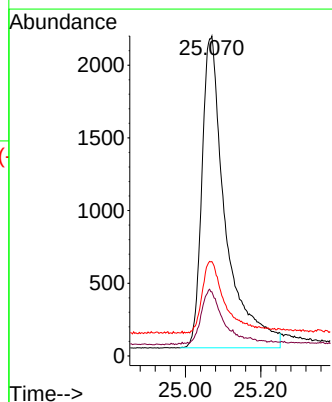
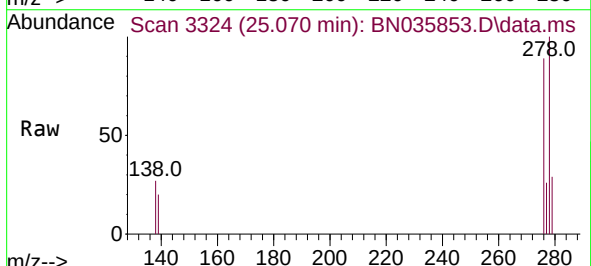
RT: 25.070 min Scan# 3324

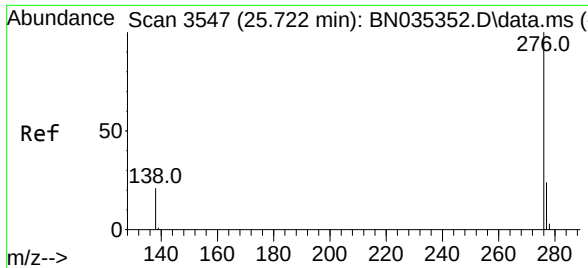
Delta R.T. -0.012 min

Lab File: BN035853.D

Acq: 26 Dec 2024 14:54

Tgt Ion:278	Resp:	9318
Ion	Ratio	Lower Upper
278	100	
139	20.0	14.2 21.4
279	29.5	20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.513 ng

RT: 25.652 min Scan# 31

Delta R.T. -0.026 min

Lab File: BN035853.D

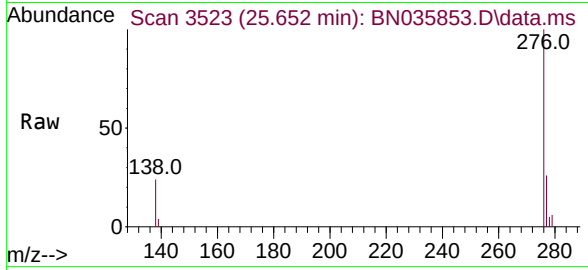
Acq: 26 Dec 2024 14:54

Instrument :

BNA_N

ClientSampleId :

PB165724BSD



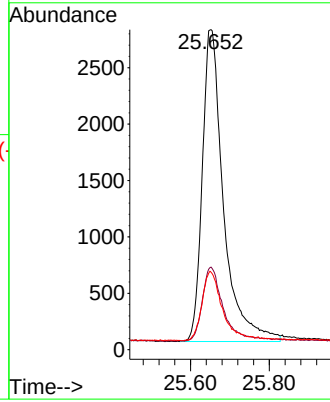
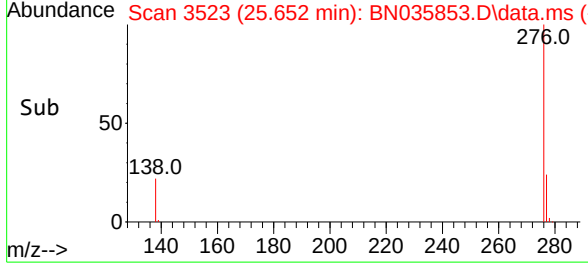
Tgt Ion:276 Resp: 10352

Ion Ratio Lower Upper

276 100

277 25.8 19.9 29.9

138 24.2 17.8 26.8



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

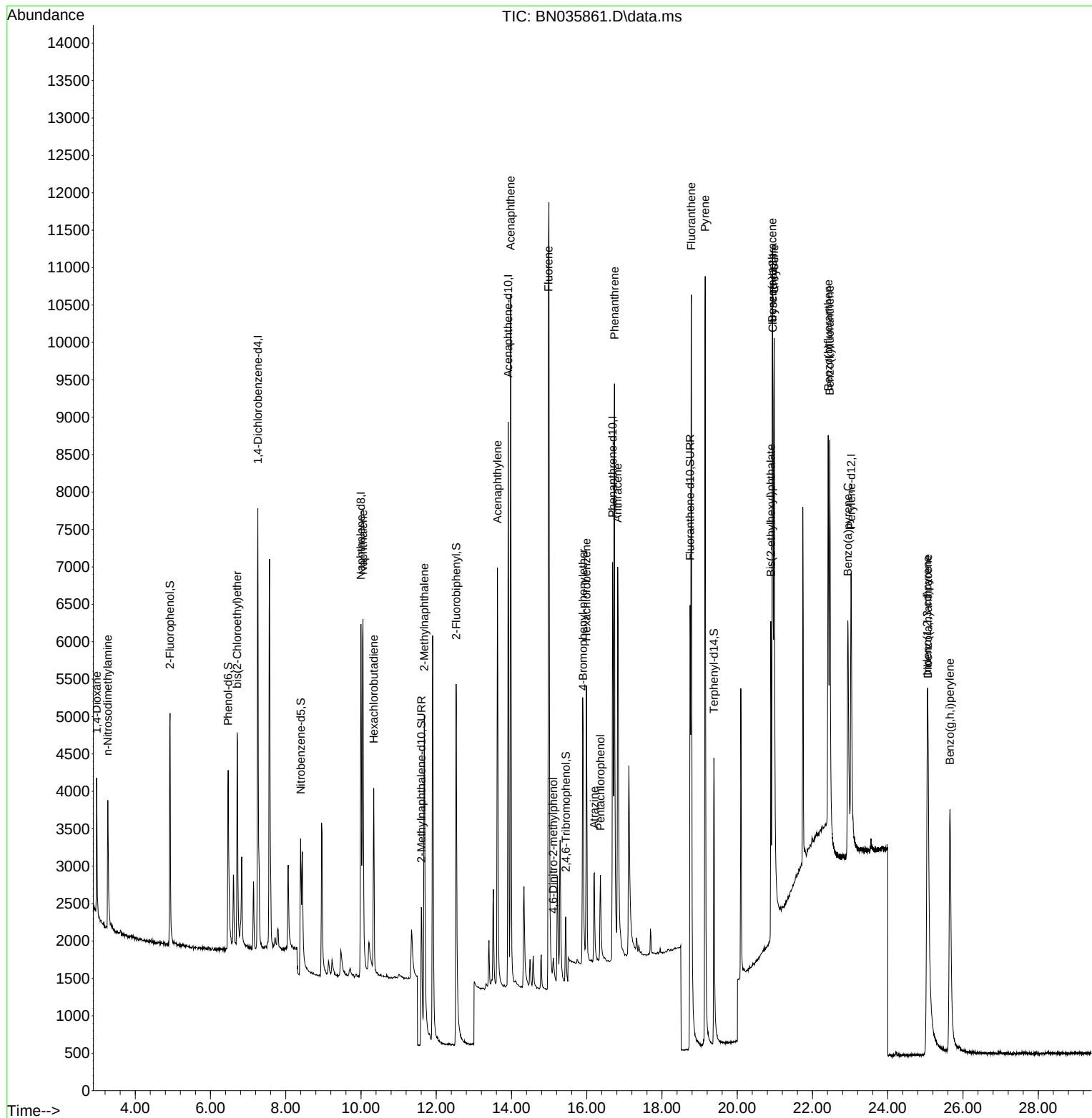
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng	#-0.01
29) Chrysene-d12	20.947	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

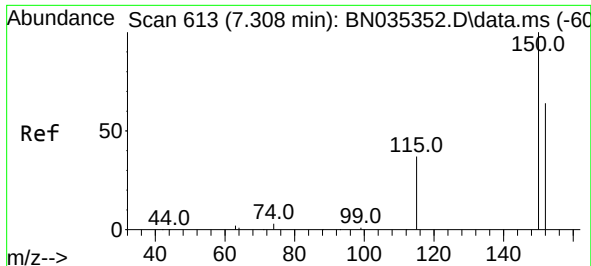
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

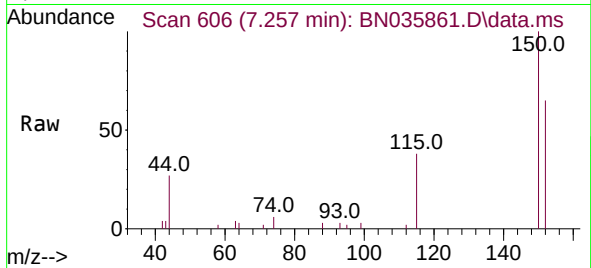
Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



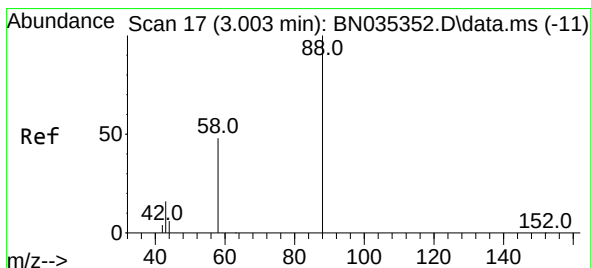
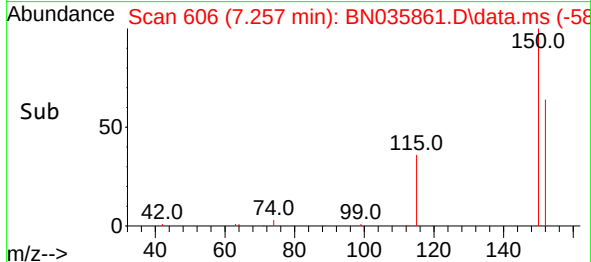
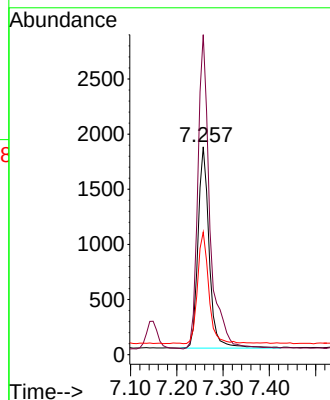


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

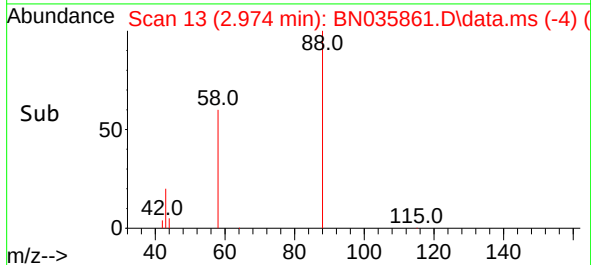
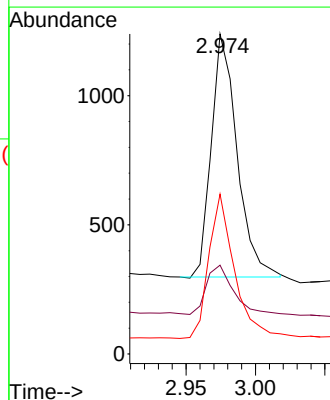
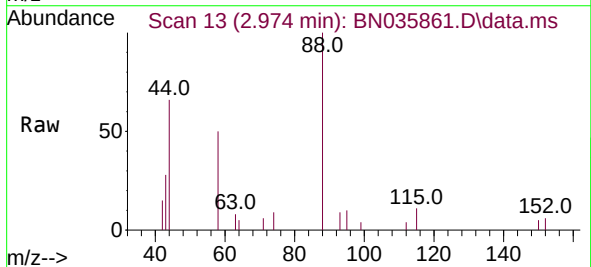


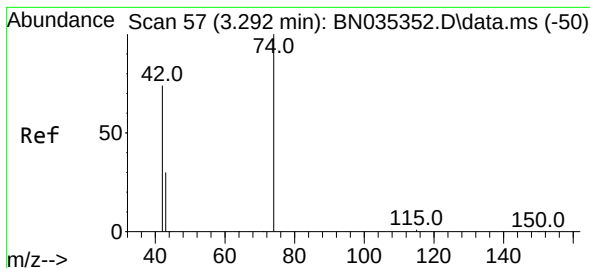
Tgt Ion:152 Resp: 3087
Ion Ratio Lower Upper
152 100
150 154.0 124.0 186.0
115 58.9 49.6 74.4



#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

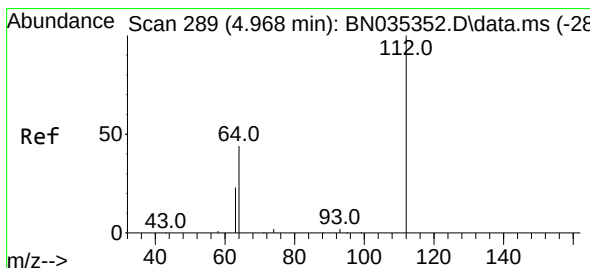
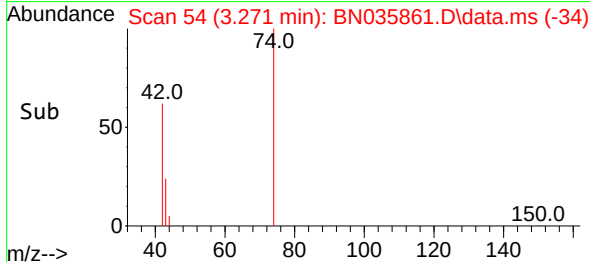
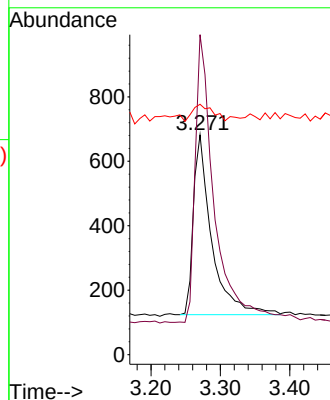
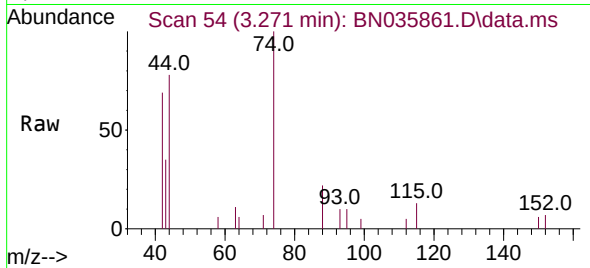




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

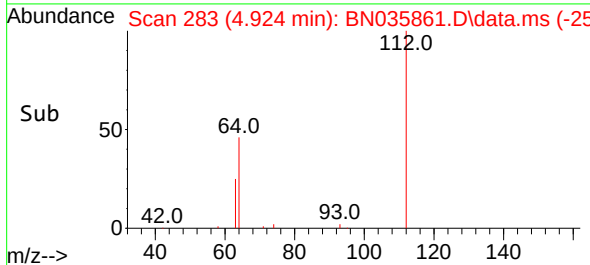
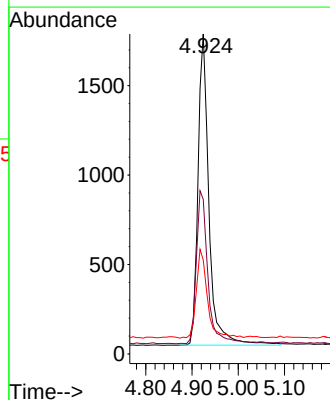
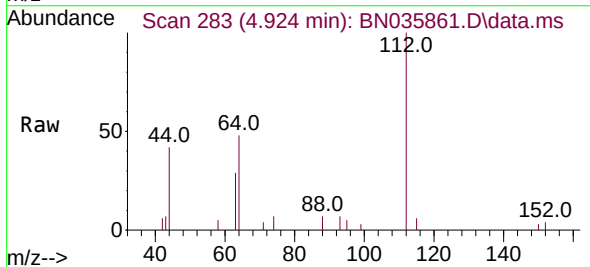
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

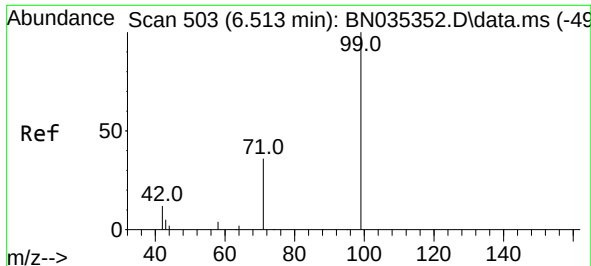
Tgt Ion: 42 Resp: 1021
Ion Ratio Lower Upper
42 100
74 169.1 124.9 187.3
44 10.6 2.2 3.4#



#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

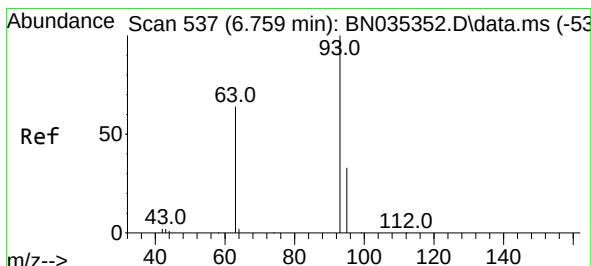
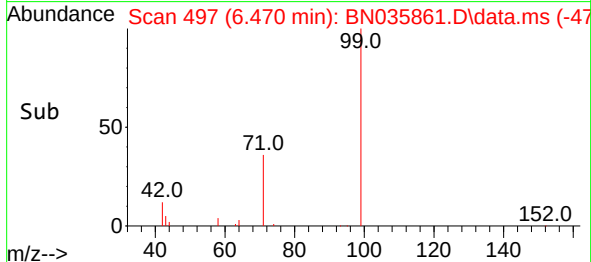
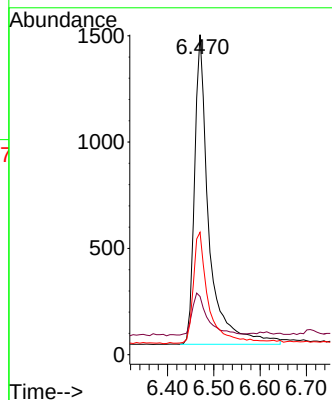
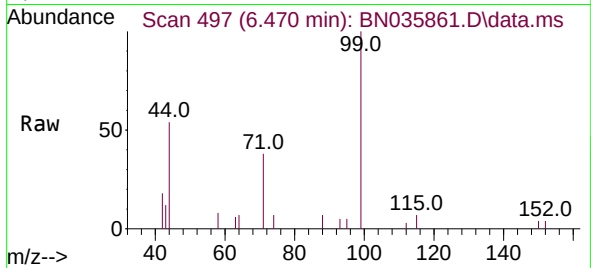




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

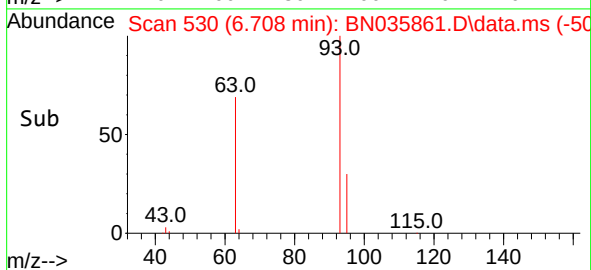
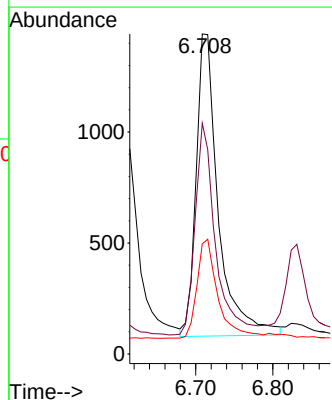
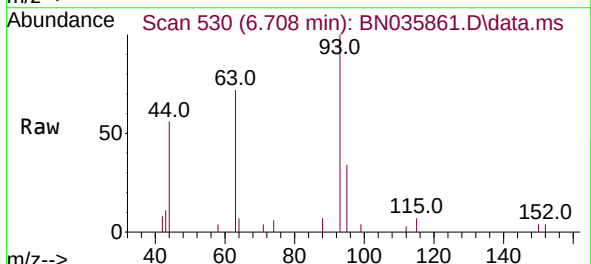
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

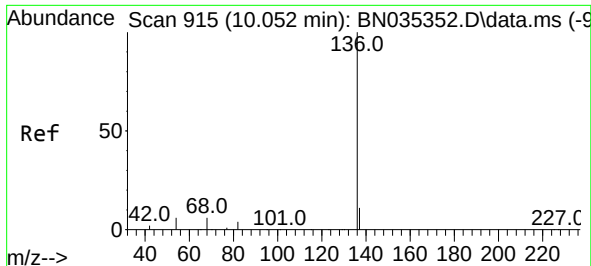
Tgt Ion:	99	Resp:	3155
Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9



#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

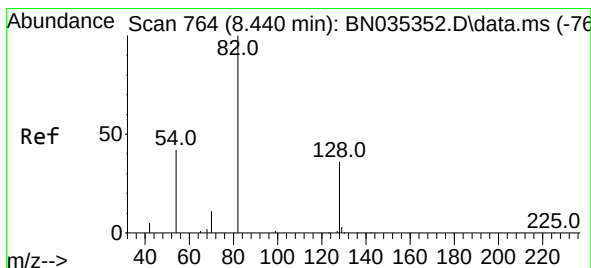
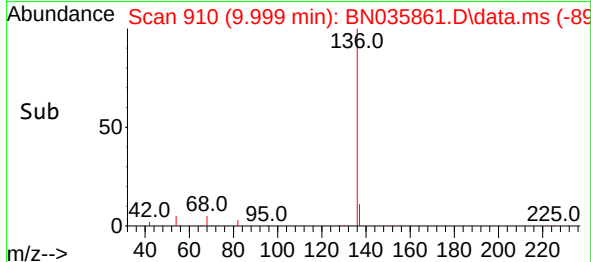
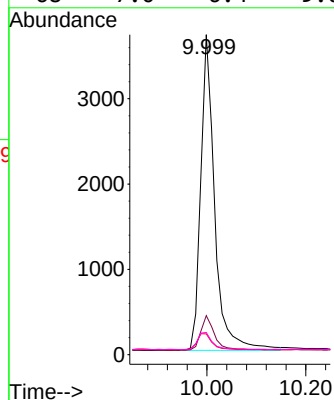
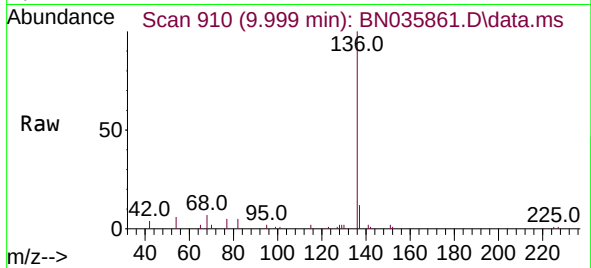




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 915
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

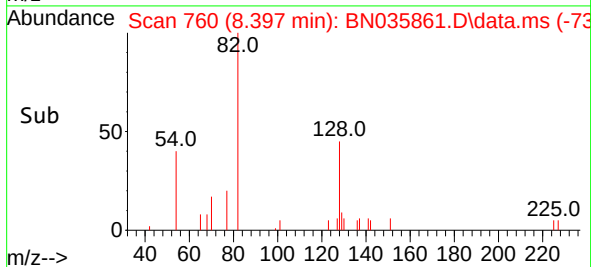
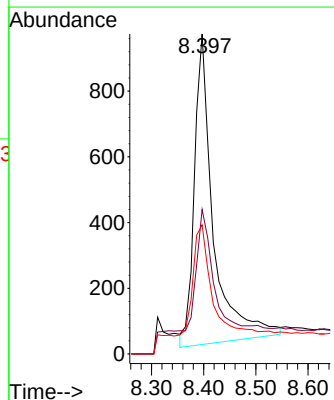
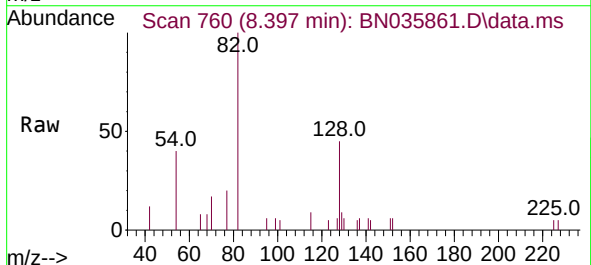
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

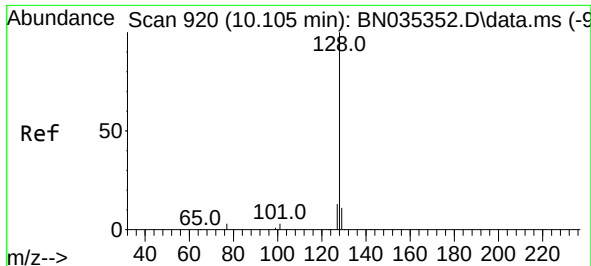
Tgt Ion:136	Resp:	7239
Ion	Ratio	Lower Upper
136	100	
137	12.2	10.2 15.2
54	6.5	6.1 9.1
68	7.0	6.4 9.6



#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

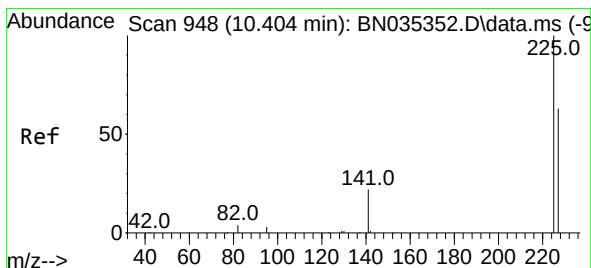
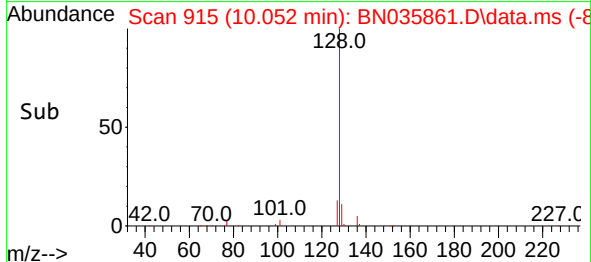
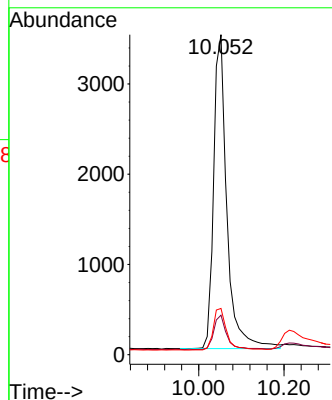
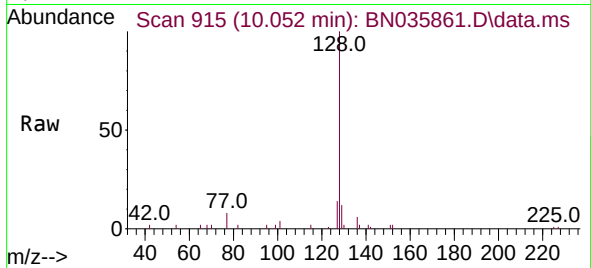




#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

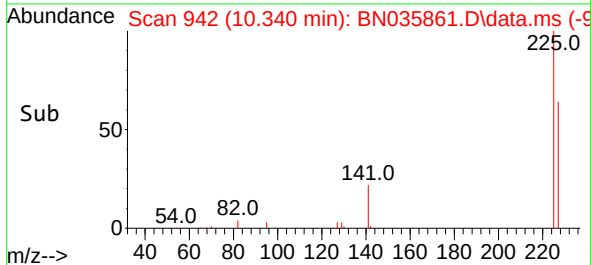
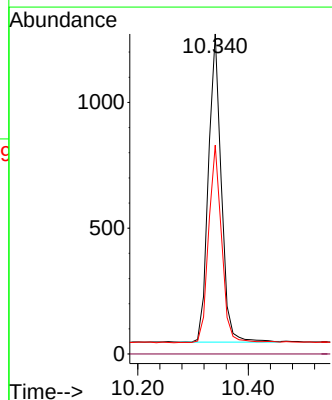
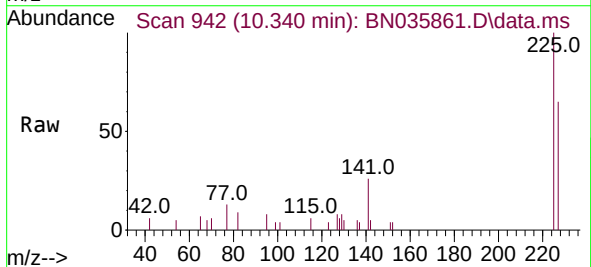
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

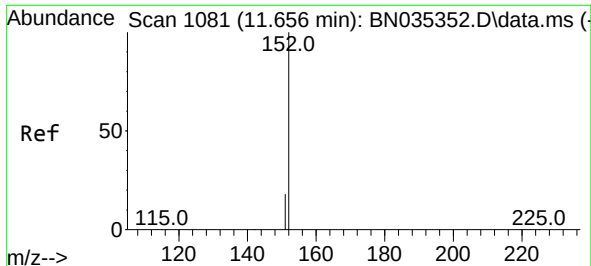
Tgt Ion:128 Resp: 7516
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.5 11.4 17.2



#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

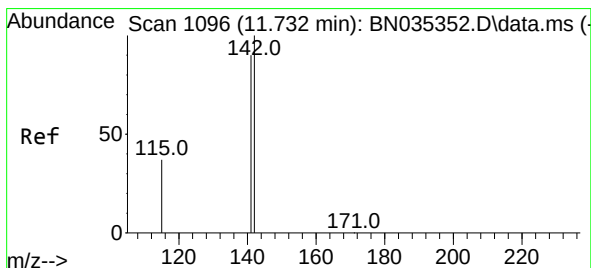
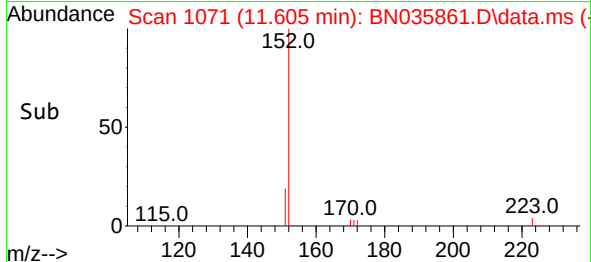
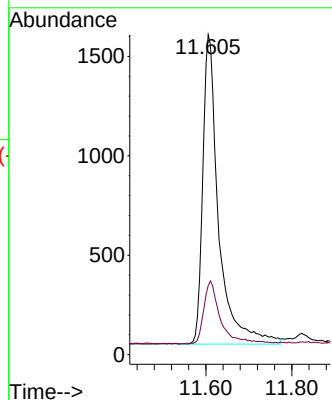
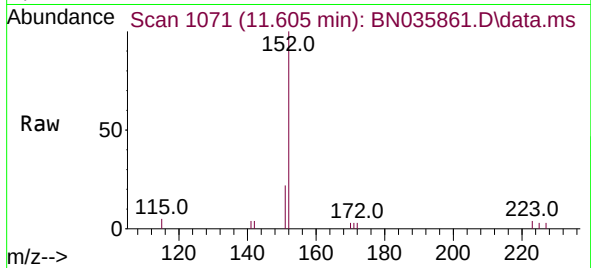




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

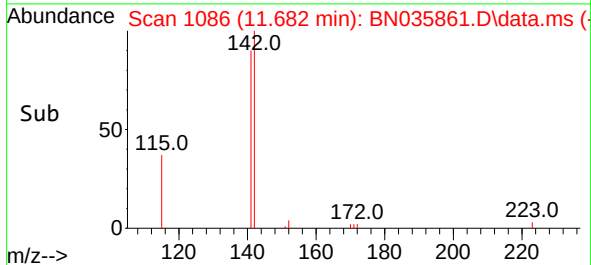
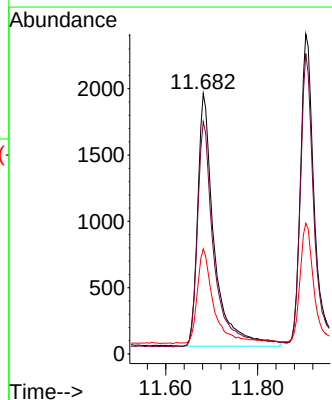
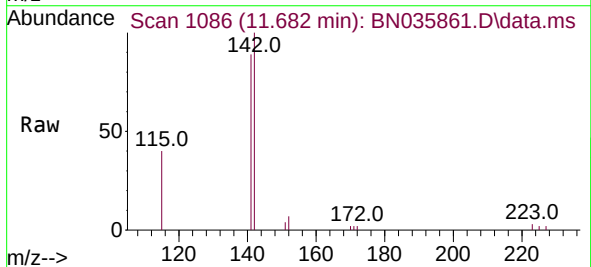
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

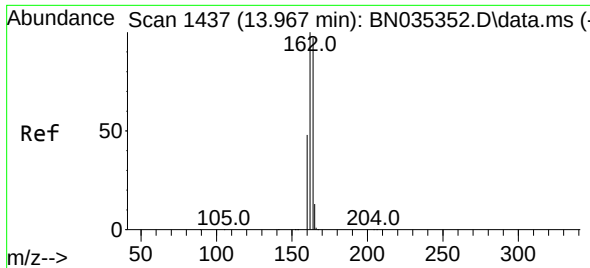
Tgt Ion:152 Resp: 3987
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0



#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

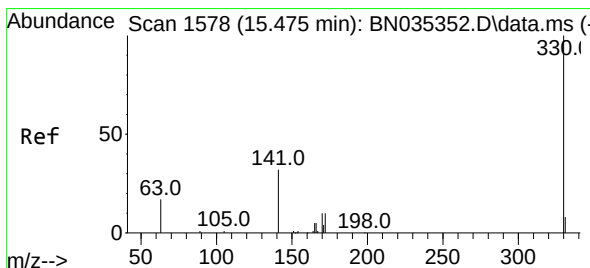
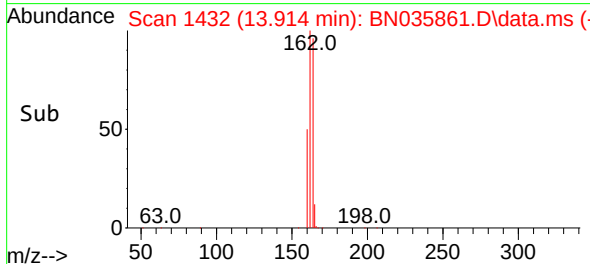
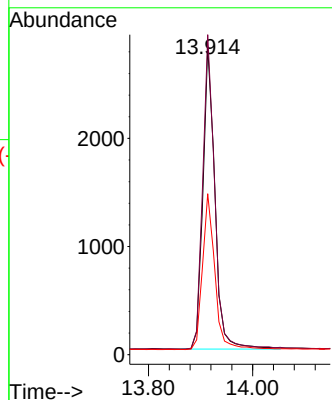
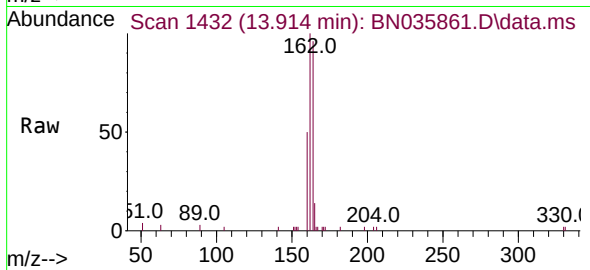




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

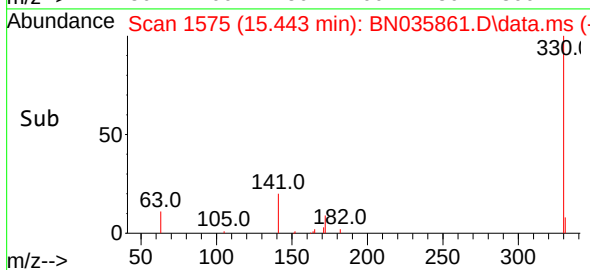
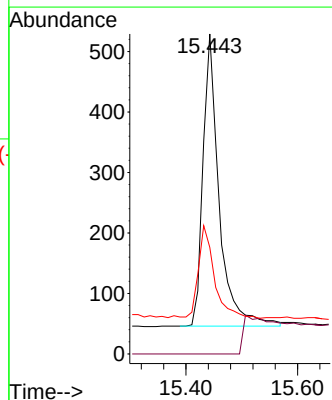
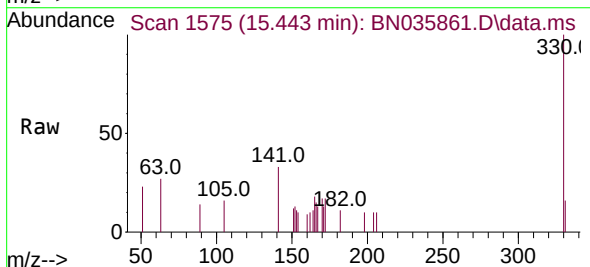
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

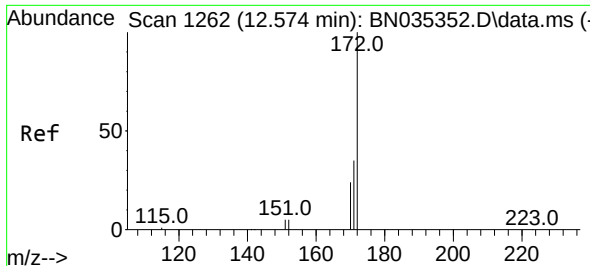
Tgt Ion:164 Resp: 4472
Ion Ratio Lower Upper
164 100
162 104.0 82.2 123.2
160 52.3 40.1 60.1



#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

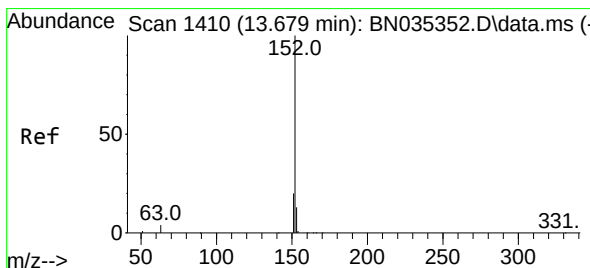
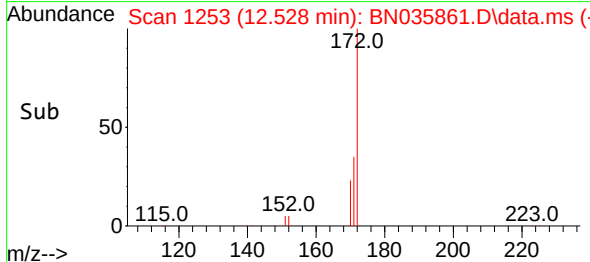
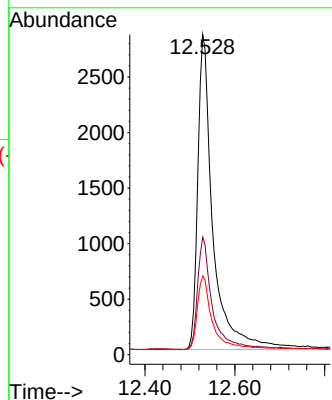
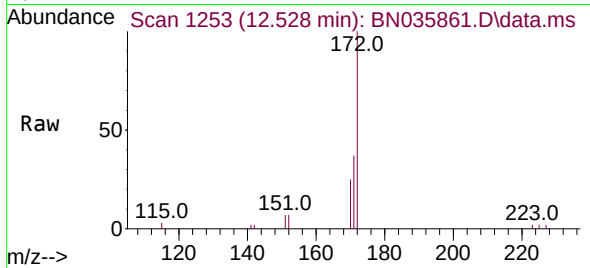




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

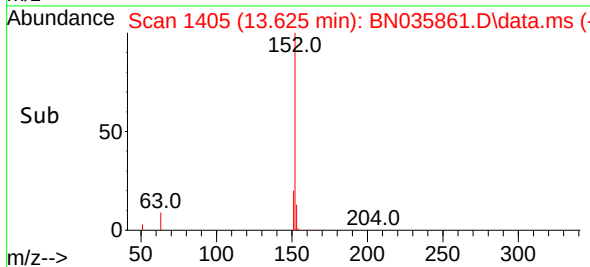
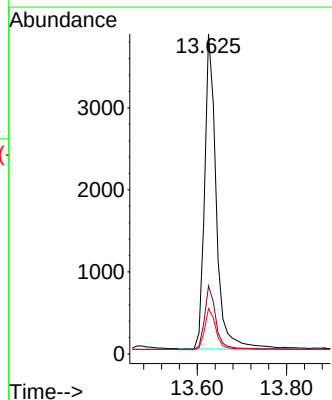
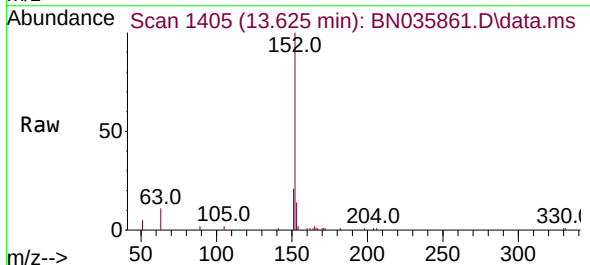
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

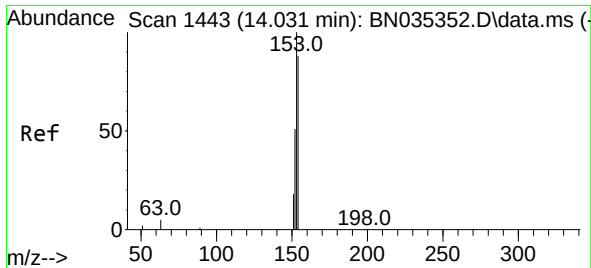
Tgt Ion:172	Resp:	6619
Ion	Ratio	Lower Upper
172	100	
171	36.8	29.0 43.4
170	24.5	19.8 29.8



#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

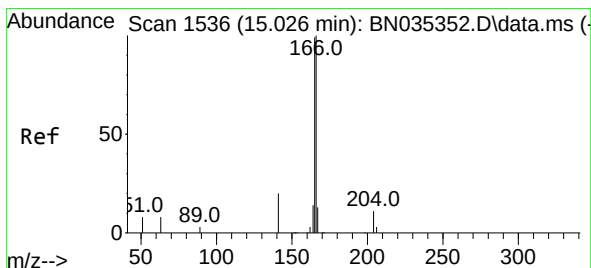
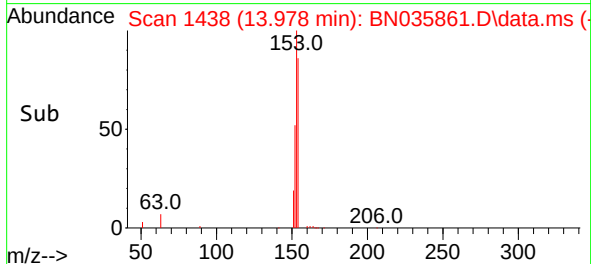
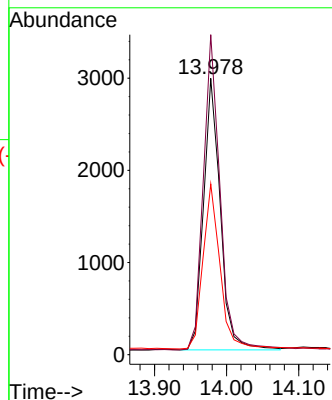
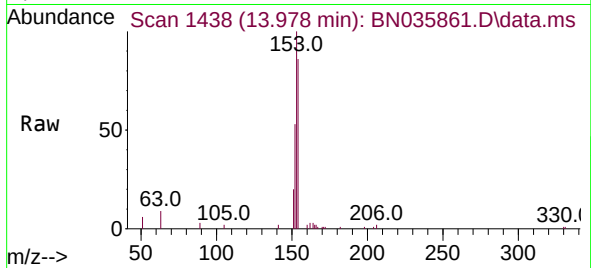




#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

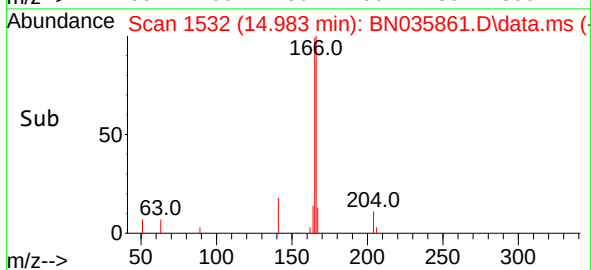
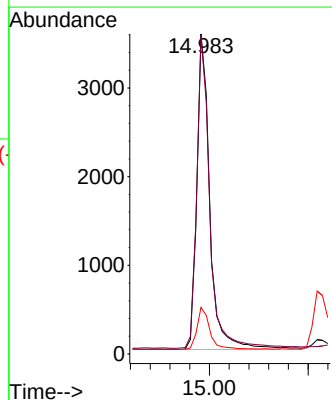
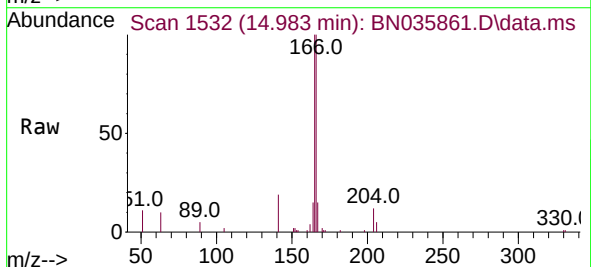
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

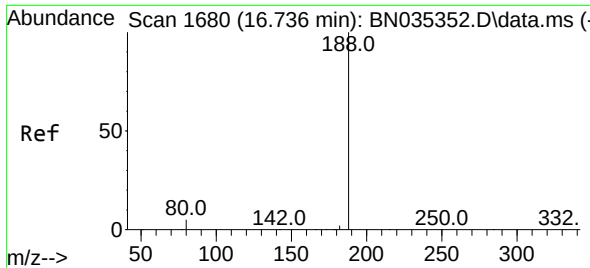
Tgt Ion:154 Resp: 4776
Ion Ratio Lower Upper
154 100
153 116.3 92.6 139.0
152 62.6 49.0 73.6



#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

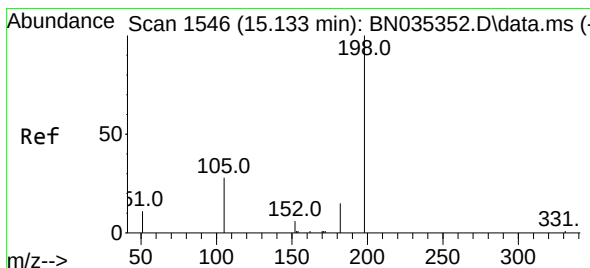
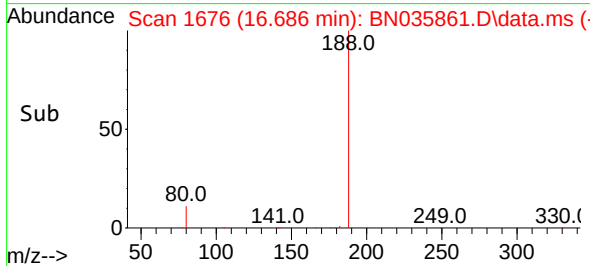
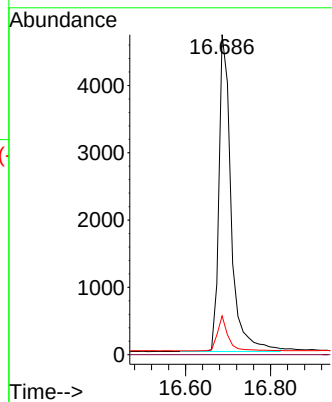
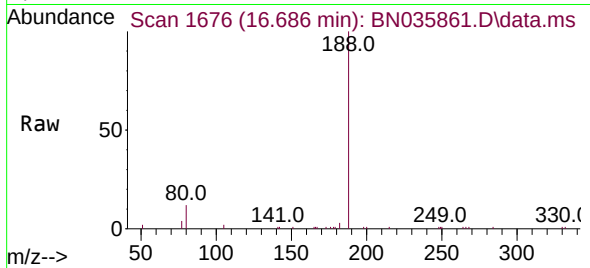




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

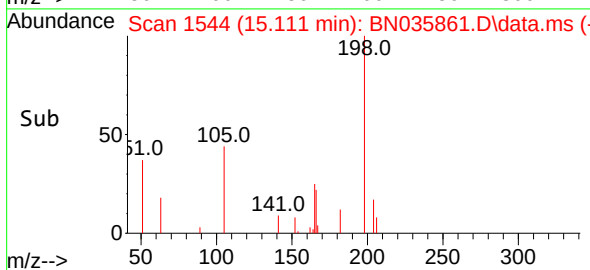
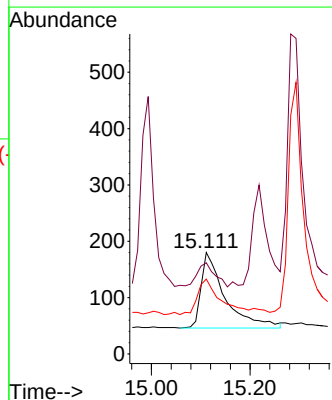
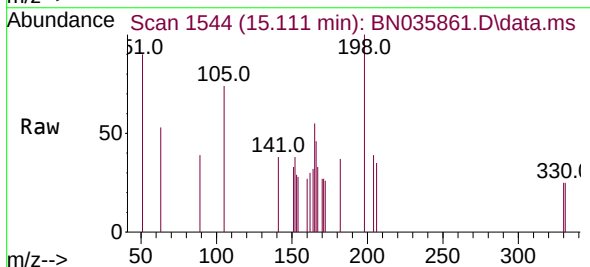
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

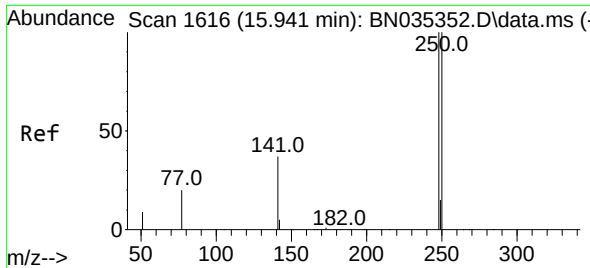
Tgt Ion:188 Resp: 9373
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.1 4.6 6.8#



#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

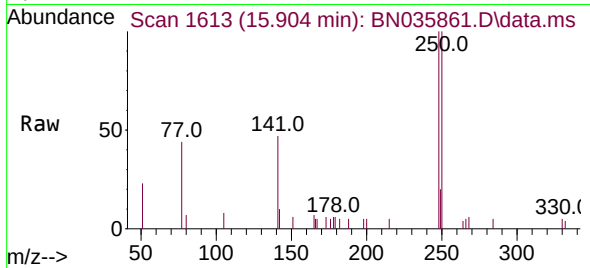
Tgt Ion:198 Resp: 453
Ion Ratio Lower Upper
198 100
51 90.0 46.5 69.7#
105 73.9 45.3 67.9#



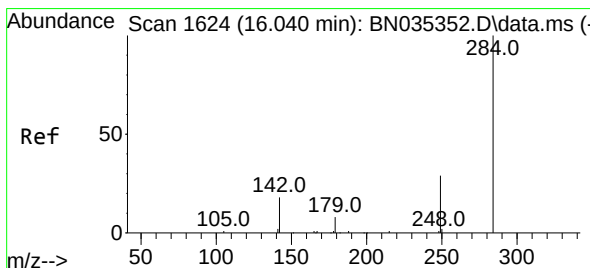
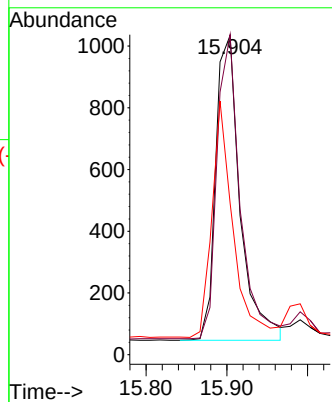
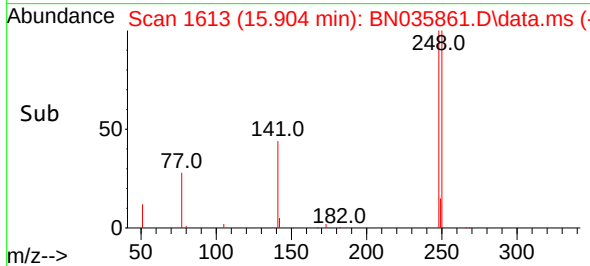


#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

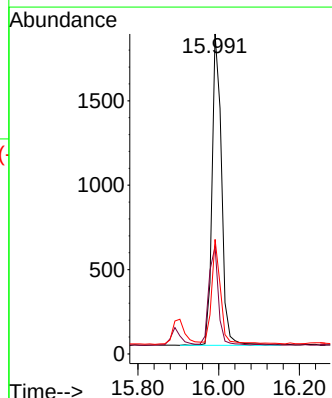
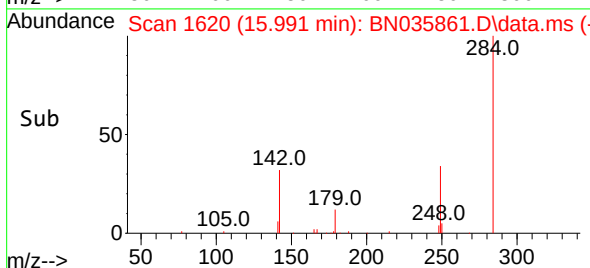
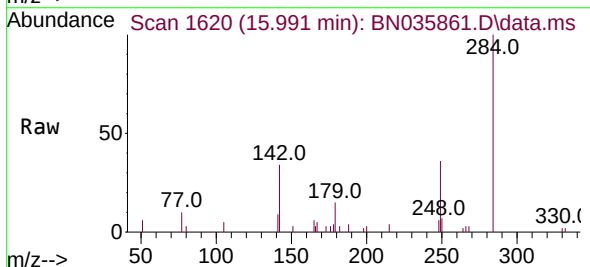


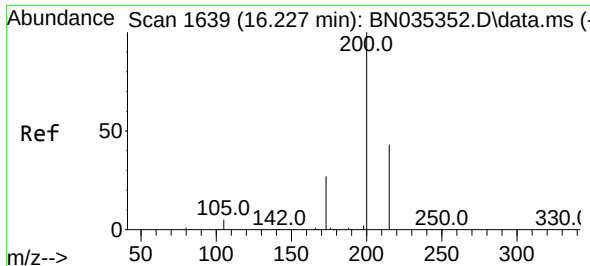
Tgt Ion:248 Resp: 2071
Ion Ratio Lower Upper
248 100
250 100.2 80.6 120.8
141 47.4 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015
Ion Ratio Lower Upper
284 100
142 31.5 26.7 40.1
249 31.2 24.6 36.8

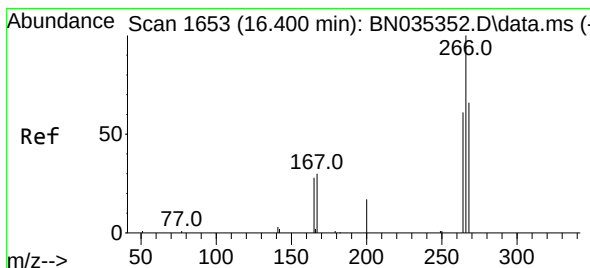
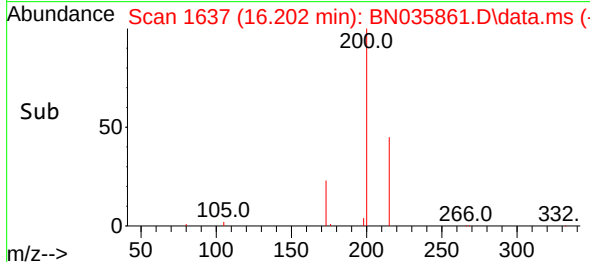
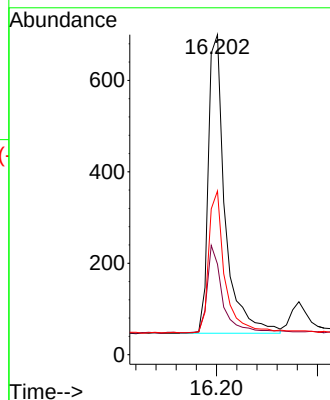
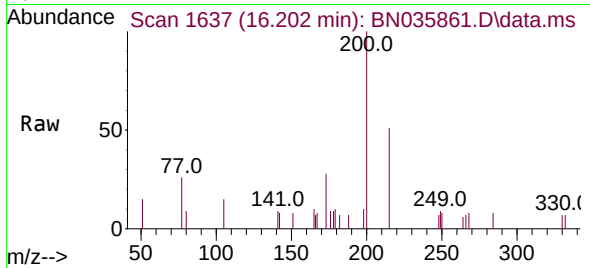




#23
 Atrazine
 Concen: 0.386 ng
 RT: 16.202 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: BN035861.D
 Acq: 26 Dec 2024 19:41

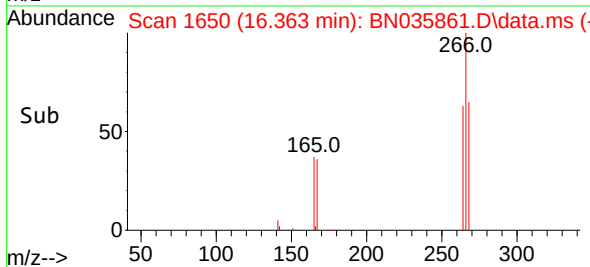
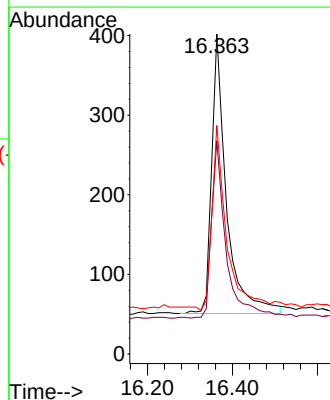
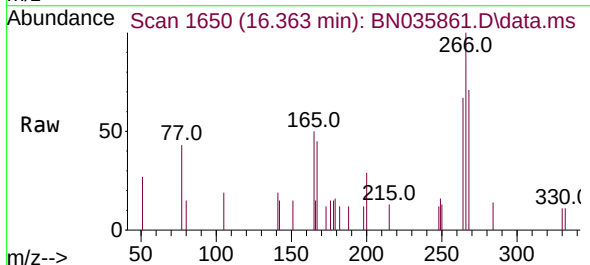
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

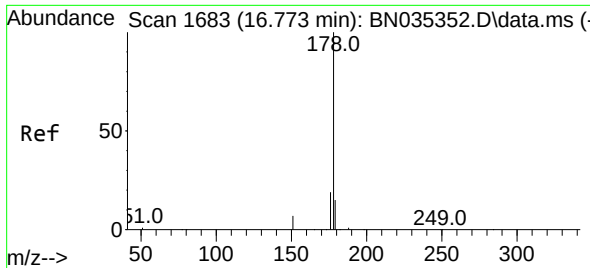
Tgt Ion:200 Resp: 1507
 Ion Ratio Lower Upper
 200 100
 173 28.3 24.1 36.1
 215 51.1 36.9 55.3



#24
 Pentachlorophenol
 Concen: 0.302 ng
 RT: 16.363 min Scan# 1650
 Delta R.T. -0.012 min
 Lab File: BN035861.D
 Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846
 Ion Ratio Lower Upper
 266 100
 264 62.3 42.3 63.5
 268 67.7 43.3 64.9#

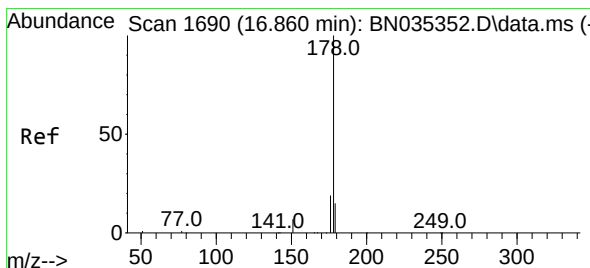
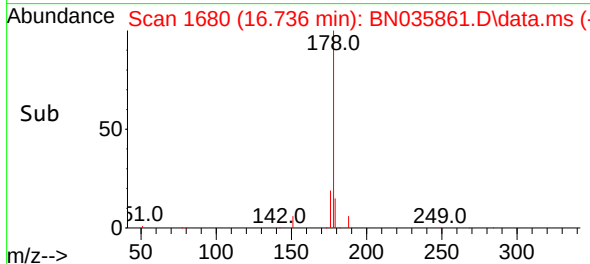
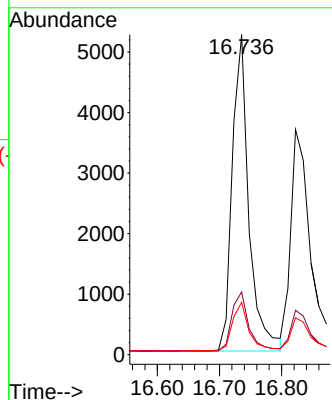
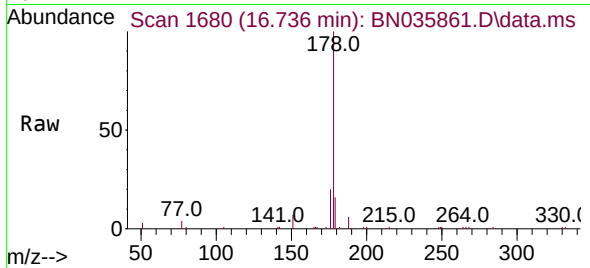




#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

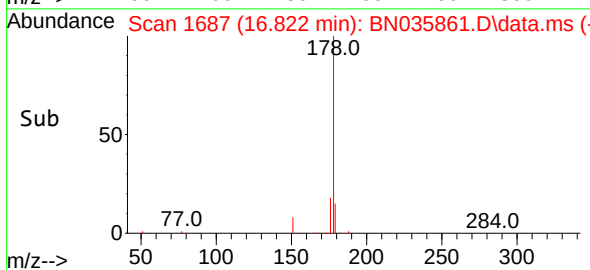
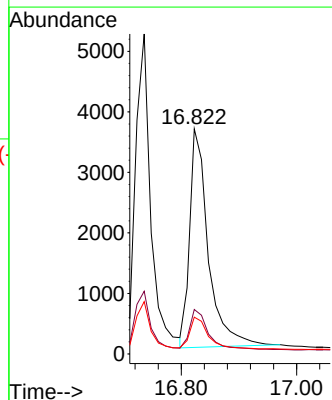
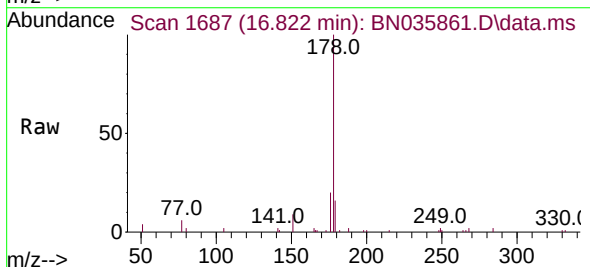
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

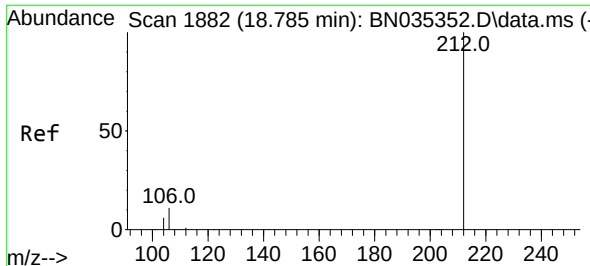
Tgt Ion:178 Resp: 9697
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.3 12.3 18.5



#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

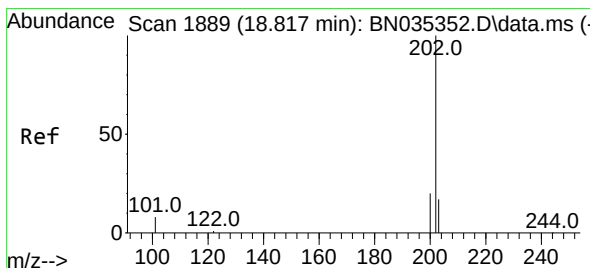
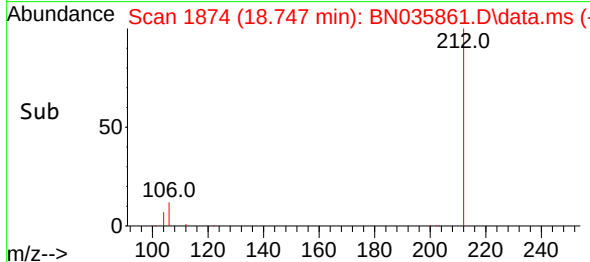
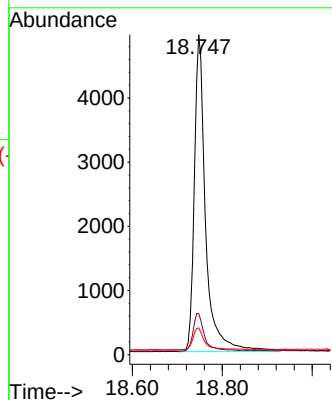
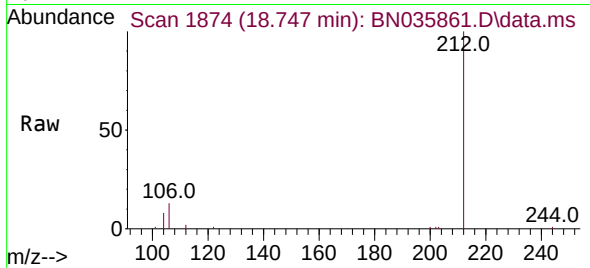




#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

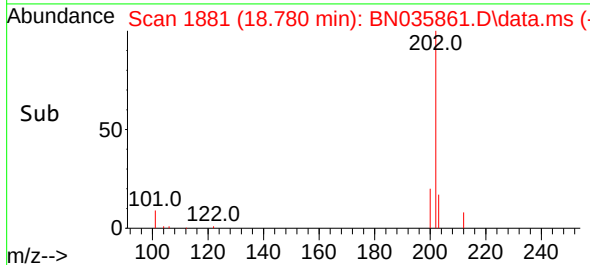
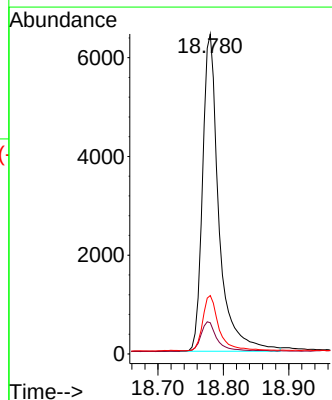
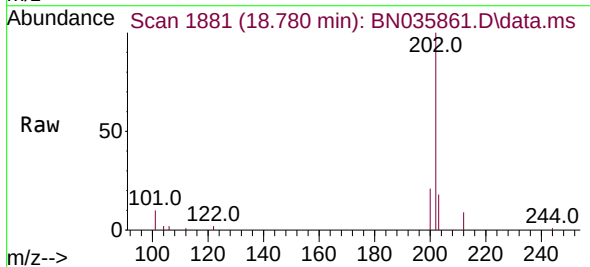
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

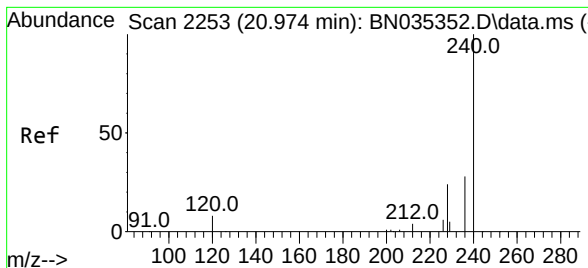
Tgt Ion:212 Resp: 8643
Ion Ratio Lower Upper
212 100
106 11.7 9.2 13.8
104 7.0 5.3 7.9



#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

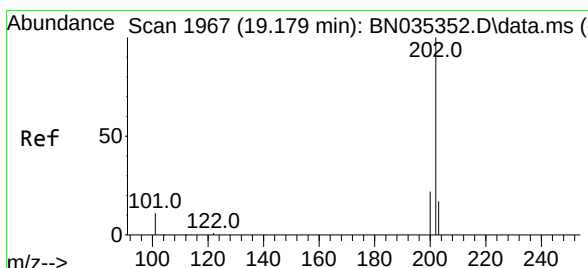
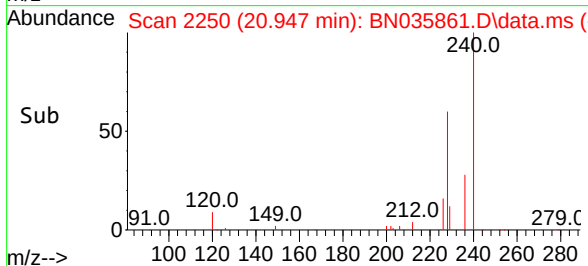
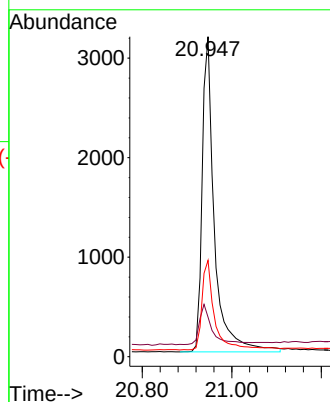
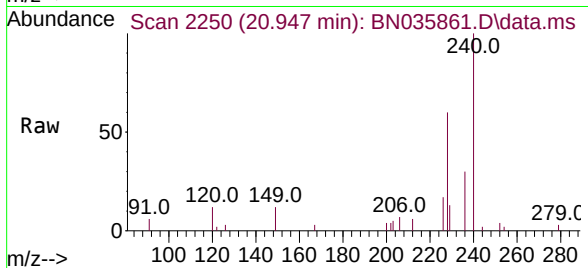
Tgt Ion:240 Resp: 6021

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

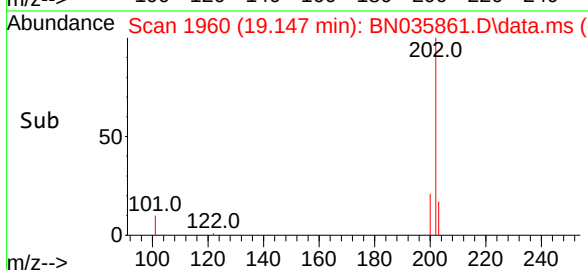
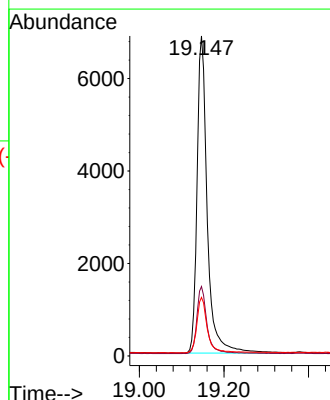
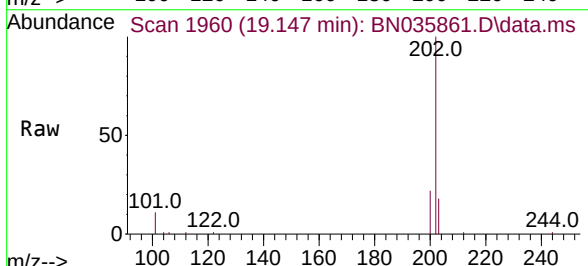
Tgt Ion:202 Resp: 11492

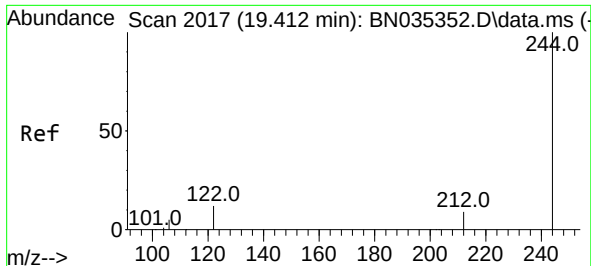
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 18.0 14.3 21.5

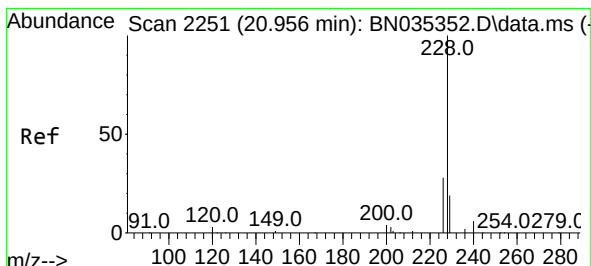
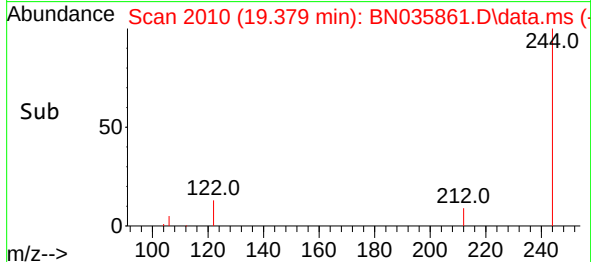
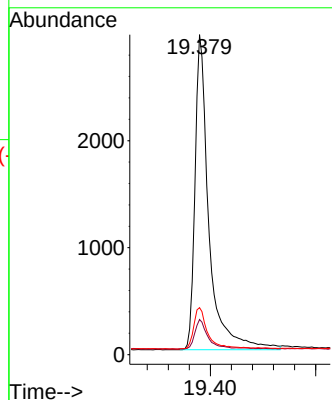
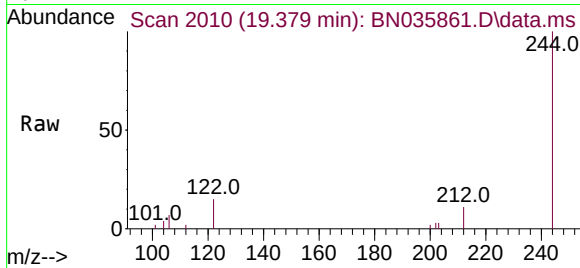




#31
 Terphenyl-d14
 Concen: 0.455 ng
 RT: 19.379 min Scan# 2010
 Delta R.T. -0.009 min
 Lab File: BN035861.D
 Acq: 26 Dec 2024 19:41

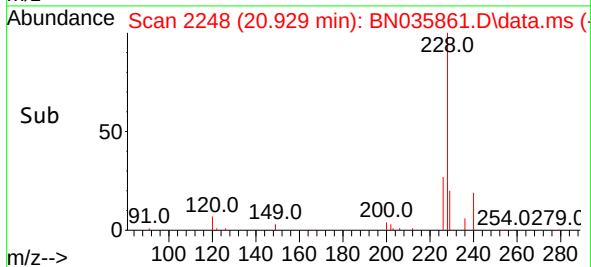
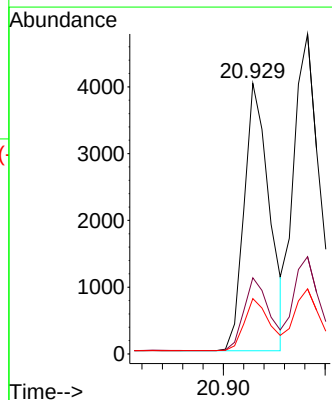
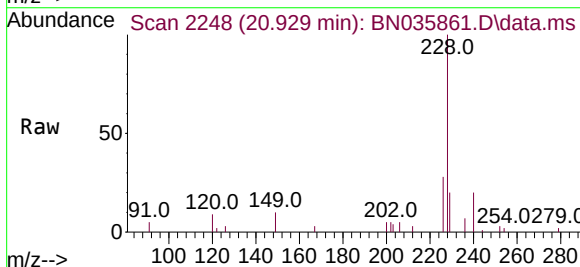
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

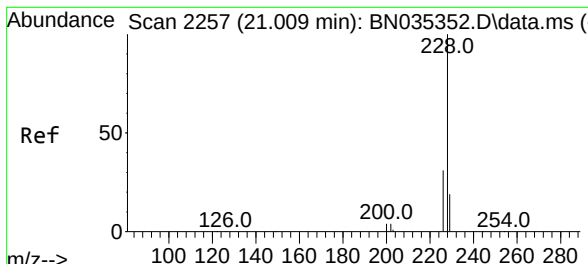
Tgt Ion:244 Resp: 5407
 Ion Ratio Lower Upper
 244 100
 212 11.0 8.1 12.1
 122 14.7 10.3 15.5



#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

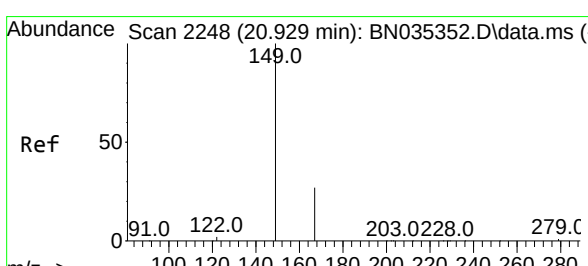
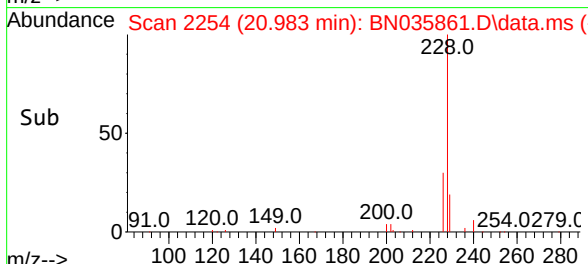
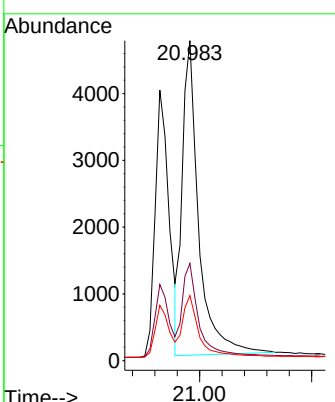
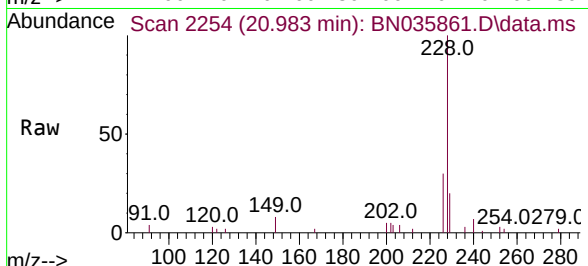




#33
 Chrysene
 Concen: 0.441 ng
 RT: 20.983 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN035861.D
 Acq: 26 Dec 2024 19:41

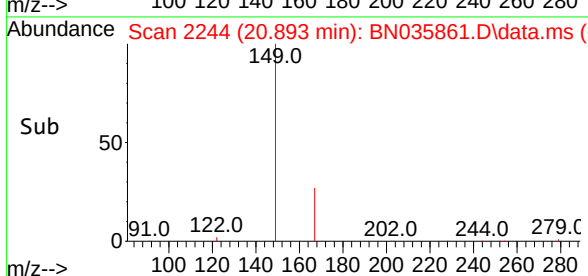
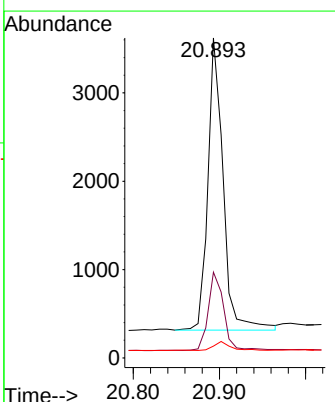
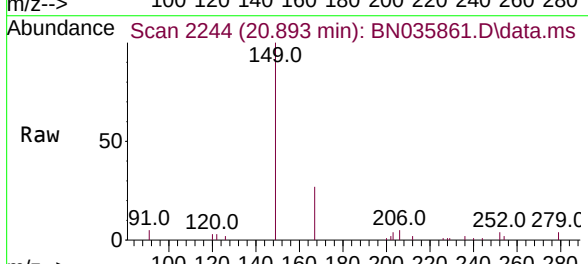
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

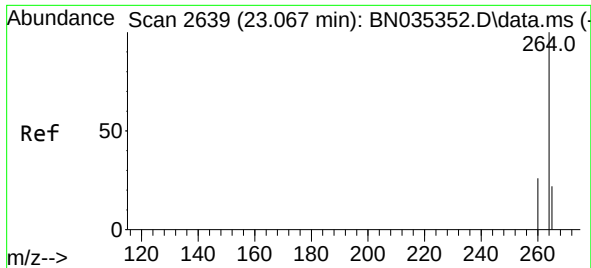
Tgt Ion:228	Resp:	9578
Ion Ratio	Lower	Upper
228	100	
226	30.4	24.6 37.0
229	20.3	15.9 23.9



#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

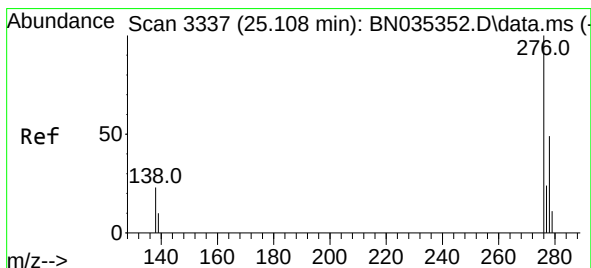
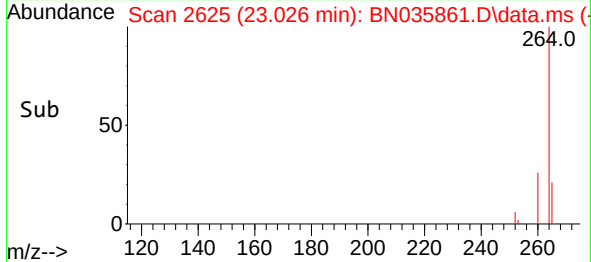
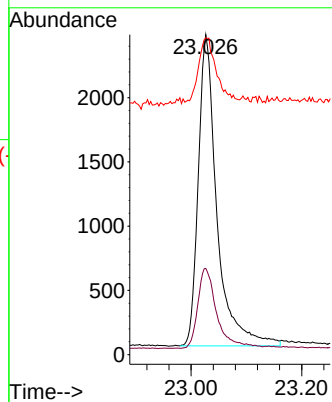
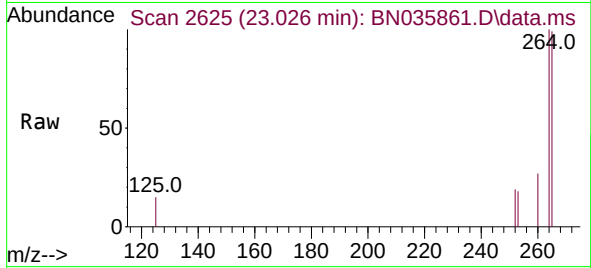




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

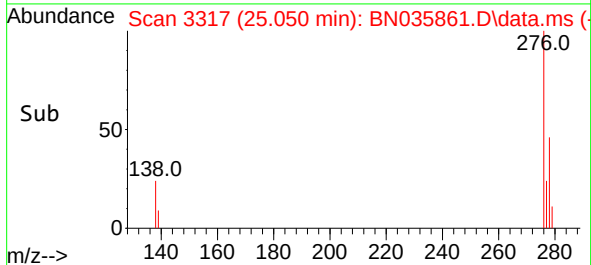
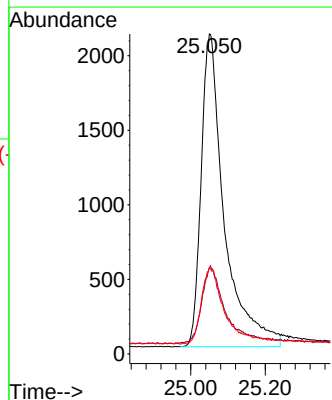
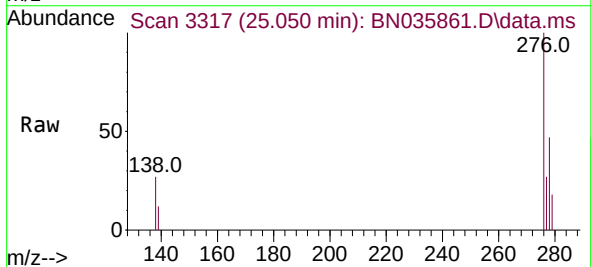
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

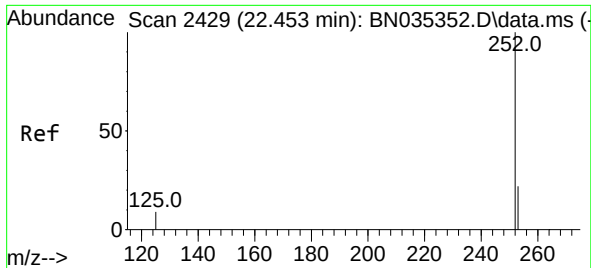
Tgt Ion:264 Resp: 5699
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 99.1 40.2 60.4#



#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

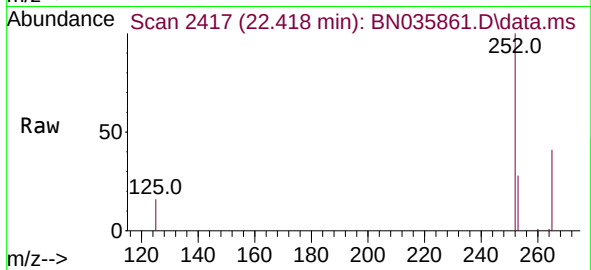
Tgt Ion:276 Resp: 9030
Ion Ratio Lower Upper
276 100
138 24.8 19.4 29.0
277 23.4 19.8 29.6



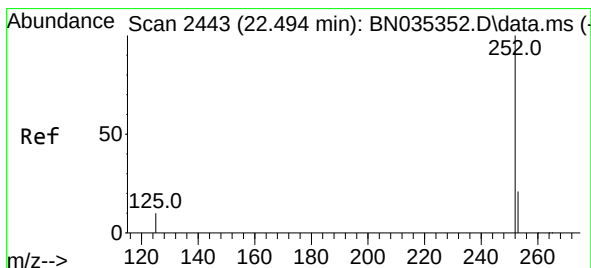
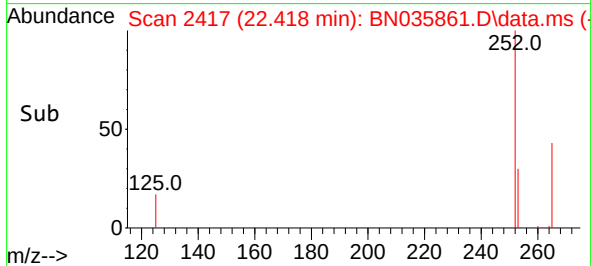
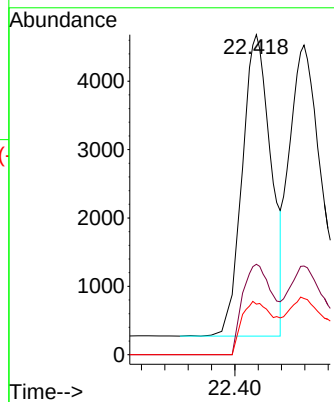


#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

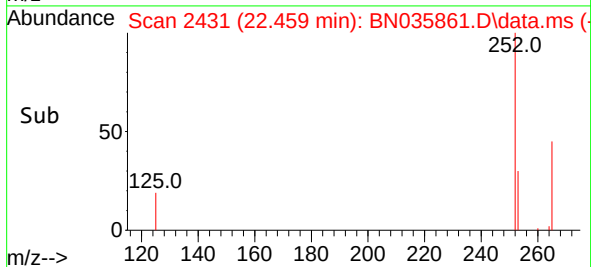
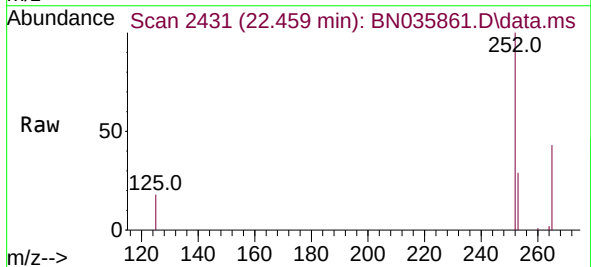
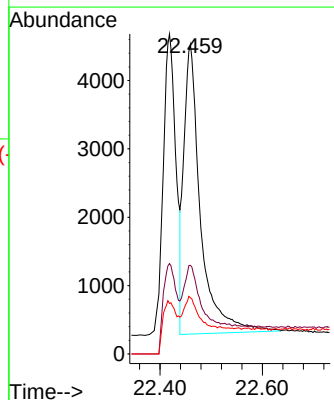


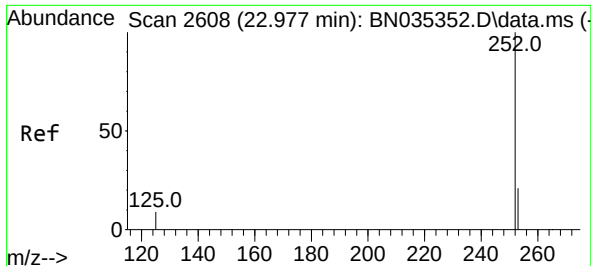
Tgt Ion:252 Resp: 11803
Ion Ratio Lower Upper
252 100
253 28.3 19.6 29.4
125 15.8 9.6 14.4#



#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#

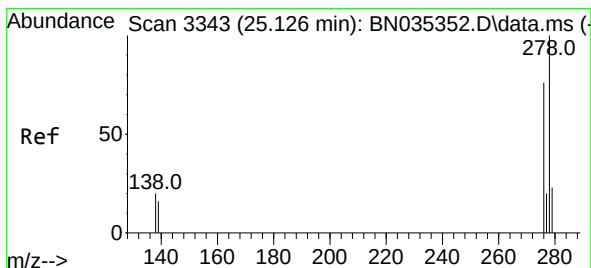
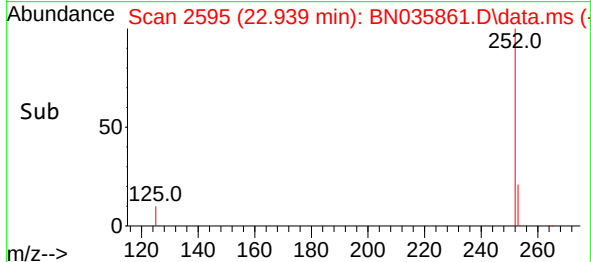
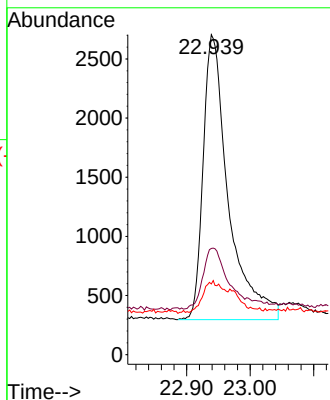
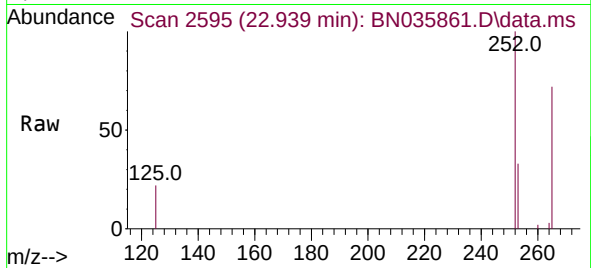




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

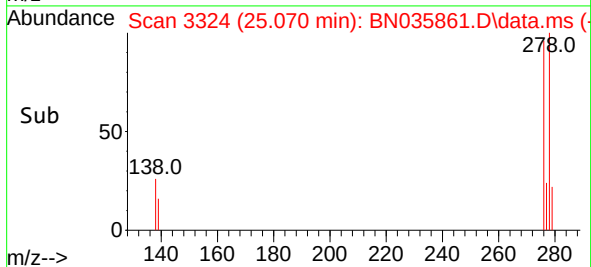
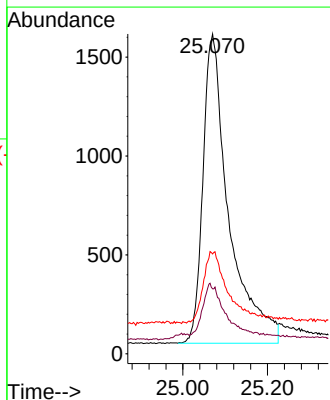
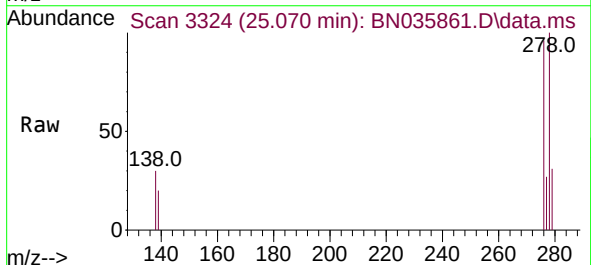
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

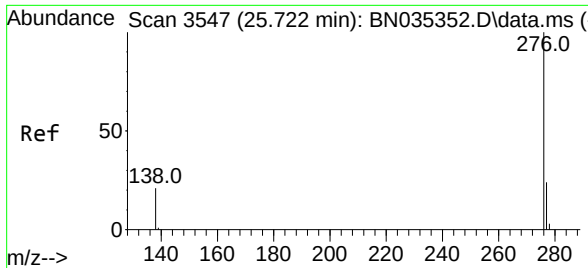
Tgt Ion:252 Resp: 6641
Ion Ratio Lower Upper
252 100
253 33.2 20.2 30.4#
125 22.1 10.9 16.3#



#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

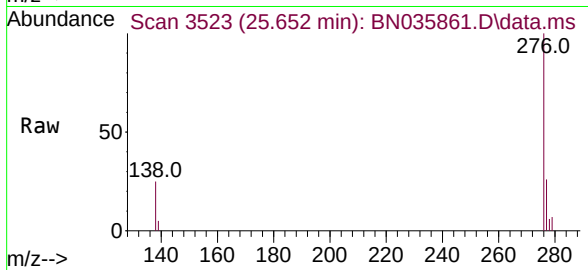
Tgt Ion:278 Resp: 6633
Ion Ratio Lower Upper
278 100
139 20.3 14.2 21.4
279 31.2 20.5 30.7#





#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

