

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 : P4866
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4866

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4866-01
P4866-02

Client Sample Number

RW7-SP200-20241114
RW7-SP201-20241114

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

Signature : _____

Date: 11/25/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P4866

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/14/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for
RW7-SP200-20241114 [Nitrobenzene-d5 - 47%, Terphenyl-d14 - 661%],
RW7-SP201-20241114 [2-Fluorobiphenyl - 24%, Nitrobenzene-d5 - 54%, Terphenyl-d14 - 573%],
PB165012BL [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 323%],
PB165012BS [2-Fluorobiphenyl - 22%, Terphenyl-d14 - 556%],
PB165012BSD [2-Fluorobiphenyl - 19% and Terphenyl-d14 - 567%] ,failing surrogates was not associated withclient parameter list, therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements except for RW7-SP200-20241114, RW7-SP201-20241114, failing Internal Standards were not associated with client parameter list, therefore no corrective action taken.

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 BN035219.D met the requirements except for 2-Fluorobiphenyl, Fluoranthene-d10, Nitrobenzene-d5 and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.

The Continuous Calibration File ID BN035235.D met the requirements except for 2-Fluorobiphenyl and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.

Samples RW7-SP200-20241114 was diluted at 2X. This sample initially analyzed straight in sequence BN112024 but END CCAL is missing therefore based on that result lab analyzed this sample directly with 2X while Straight analysis given as screening data in Miscellaneous section.

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.

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

F. Manual Integration Comments:

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

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

Signature_____

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: P4866

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 BN035219.D met the requirements except for 2- Fluorobiphenyl,Fluoranthene-d10,Nitrobenzene-d5 and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.			
	The Continuous Calibration File ID BN035235.D met the requirements except for 2- Fluorobiphenyl and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for RW7-SP200-20241114 [Nitrobenzene-d5 - 47%, Terphenyl-d14 - 661%], RW7-SP201-20241114 [2-Fluorobiphenyl - 24%, Nitrobenzene-d5 - 54%, Terphenyl- d14 - 573%], PB165012BL [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 323%], PB165012BS [2-Fluorobiphenyl - 22%, Terphenyl-d14 - 556%], PB165012BSD [2-Fluorobiphenyl - 19% and Terphenyl-d14 - 567%] ,failing surrogates was not associated withclient parameter list, therefore no corrective action taken.			

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

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The 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: The Internal Standards Areas met the acceptable requirements except for RW7-SP200-20241114, RW7-SP201-20241114, failing Internal Standards were not associated with client parameter list, therefore no corrective action taken.			
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:

Samples RW7-SP200-20241114 was diluted at 2X. This sample initially analyzed straight in sequence BN112024 but END CCAL is missing therefore based on that result lab analyzed this sample directly with 2X while Straight analysis given as screening data in Miscellaneous section.

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.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4866

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/25/2024

LAB CHRONICLE

OrderID:	P4866	OrderDate:	11/14/2024 3:35:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4866-01	RW7-SP200-20241114	Water			11/14/24			11/14/24
			SVOC-SIMGroup1	8270-Modified		11/15/24	11/21/24	
P4866-02	RW7-SP201-20241114	Water			11/14/24			11/14/24
			SVOC-SIMGroup1	8270-Modified		11/15/24	11/21/24	



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

Hit Summary Sheet SW-846

SDG No.: P4866
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW7-SP200-20241114								
P4866-01	RW7-SP200-20241114	WATER	1,4-Dioxane	4.300	0.14	0.4	0.4	ug/L
			Total Svoc :	4.30				
			Total Concentration:	4.30				
Client ID : RW7-SP201-20241114								
P4866-02	RW7-SP201-20241114	WATER	1,4-Dioxane	1.300	0.07	0.2	0.2	ug/L
			Total Svoc :	1.30				
			Total Concentration:	1.30				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4866

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4866-01	RW7-SP200-20241114	2-Methylnaphthalene-d10	0.4	0.26	65		30	150
		Fluoranthene-d10	0.4	0.19	47		30	150
		Nitrobenzene-d5	0.4	0.19	47	*	55	111
		2-Fluorobiphenyl	0.4	0.26	64		53	106
		Terphenyl-d14	0.4	2.64	661	*	58	132
P4866-02	RW7-SP201-20241114	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.22	54	*	55	111
		2-Fluorobiphenyl	0.4	0.095	24	*	53	106
		Terphenyl-d14	0.4	2.29	573	*	58	132
PB165012BL	PB165012BL	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.17	42	*	53	106
		Terphenyl-d14	0.4	1.29	323	*	58	132
PB165012BS	PB165012BS	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.26	66		30	150
		Nitrobenzene-d5	0.4	0.22	56		55	111
		2-Fluorobiphenyl	0.4	0.086	22	*	53	106
		Terphenyl-d14	0.4	2.22	556	*	58	132
PB165012BSD	PB165012BSD	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.30	76		30	150
		Nitrobenzene-d5	0.4	0.24	60		55	111
		2-Fluorobiphenyl	0.4	0.075	19	*	53	106
		Terphenyl-d14	0.4	2.27	567	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4866

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035226.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	
								Qual		High	RPD
PB165012BS	1,4-Dioxane	0.4	0.38	ug/L	95				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4866

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035227.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165012BSD	1,4-Dioxane	0.4	0.39	ug/L	98	3			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165012BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4866

SAS No.: P4866 SDG NO.: P4866

Lab File ID: BN035220.D

Lab Sample ID: PB165012BL

Instrument ID: BNA_N

Date Extracted: 11/15/2024

Matrix: (soil/water) Water

Date Analyzed: 11/21/2024

Level: (low/med) LOW

Time Analyzed: 13:58

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165012BS	PB165012BS	BN035226.D	11/21/2024
PB165012BSD	PB165012BSD	BN035227.D	11/21/2024
RW7-SP200-20241114	P4866-01	BN035223.D	11/21/2024
RW7-SP201-20241114	P4866-02	BN035225.D	11/21/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4866SDG NO.: P4866Lab File ID: BN035061.DDFTPP Injection Date: 11/13/2024Instrument ID: BNA_NDFTPP Injection Time: 12:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.6
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	29.1
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	35.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	59.1
443	15.0 - 24.0% of mass 442	11.2 (19) 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	BN035062.D	11/13/2024	12:40
SSTDICC0.2	SSTDICC0.2	BN035063.D	11/13/2024	13:16
SSTDICCC0.4	SSTDICCC0.4	BN035064.D	11/13/2024	13:52
SSTDICC0.8	SSTDICC0.8	BN035065.D	11/13/2024	14:28
SSTDICC1.6	SSTDICC1.6	BN035066.D	11/13/2024	15:04
SSTDICC3.2	SSTDICC3.2	BN035067.D	11/13/2024	15:39
SSTDICC5.0	SSTDICC5.0	BN035068.D	11/13/2024	16:15



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4866SDG NO.: P4866Lab File ID: BN035218.DDFTPP Injection Date: 11/21/2024Instrument ID: BNA_NDFTPP Injection Time: 12:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.3
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	6.5
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	11.3
442	Greater than 50% of mass 198	68.4
443	15.0 - 24.0% of mass 442	12.7 (18.5) 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	BN035219.D	11/21/2024	13:22
PB165012BL	PB165012BL	BN035220.D	11/21/2024	13:58
RW7-SP200-20241114	P4866-01	BN035223.D	11/21/2024	15:48
RW7-SP201-20241114	P4866-02	BN035225.D	11/21/2024	17:00
PB165012BS	PB165012BS	BN035226.D	11/21/2024	17:36
PB165012BSD	PB165012BSD	BN035227.D	11/21/2024	18:12
SSTDCCC0.4EC	SSTDCCC0.4	BN035235.D	11/21/2024	23:01

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4866 SAS No.: P4866 SDG NO.: P4866

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/21/2024

Lab File ID: BN035219.D Time Analyzed: 13:22

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	3553	7.329	8594	10.07	5839	13.99
UPPER LIMIT	7106	7.829	17188	10.573	11678	14.487
LOWER LIMIT	1776.5	6.829	4297	9.573	2919.5	13.487
EPA SAMPLE NO.						
01 PB165012BL	3644	7.33	8156	10.07	4996	13.98
02 RW7-SP200-20241114	3104	7.33	7479	10.07	2812 *	13.98
03 RW7-SP201-20241114	2730	7.33	6373	10.07	3921	13.99
04 PB165012BS	3340	7.33	7691	10.07	4263	13.99
05 PB165012BSD	3072	7.33	6967	10.07	4025	13.98

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.: P4866 SAS No.: P4866 SDG NO.: P4866

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/21/2024

Lab File ID: BN035219.D Time Analyzed: 13:22

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	13132	16.746	2179	21.008	7936	23.104
UPPER LIMIT	26264	17.246	4358	21.508	15872	23.604
LOWER LIMIT	6566	16.246	1089.5	20.508	3968	22.604
EPA SAMPLE NO.						
01 PB165012BL	10325	16.75	2547	21.01	7086	23.11
02 RW7-SP200-20241114	9268	16.75	1000 *	21.01	155 *	23.10
03 RW7-SP201-20241114	8423	16.75	1472	21.01	2672 *	23.10
04 PB165012BS	8289	16.75	1030 *	21.01	1173 *	23.10
05 PB165012BSD	7680	16.75	1000 *	21.01	3421 *	23.10

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	11/14/24	
Project:	CTO WE13		Date Received:	11/14/24	
Client Sample ID:	RW7-SP200-20241114		SDG No.:	P4866	
Lab Sample ID:	P4866-01		Matrix:	Water	
Analytical Method:	SW8270SIM		% 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 :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035223.D	2	11/15/24 12:05	11/21/24 15:48	PB165012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.30		0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.19		30 - 150		47%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.19	*	55 - 111		47%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		64%	SPK: 0.4
1718-51-0	Terphenyl-d14	2.64	*	58 - 132		661%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3100		7.329			
1146-65-2	Naphthalene-d8	7480		10.073			
15067-26-2	Acenaphthene-d10	2810		13.983			
1517-22-2	Phenanthrene-d10	9270		16.753			
1719-03-5	Chrysene-d12	1000		21.006			
1520-96-3	Perylene-d12	155		23.102			

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\BN112124\
Data File : BN035223.D
Acq On : 21 Nov 2024 15:48
Operator : RC/JU
Sample : P4866-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 16:50:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3104	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7479	0.400	ng	# 0.00
13) Acenaphthene-d10	13.983	164	2812	0.400	ng	0.00
19) Phenanthrene-d10	16.753	188	9268	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	1000	0.400	ng	# 0.00
35) Perylene-d12	23.102	264	155	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	545	0.069	ng	0.00
5) Phenol-d6	6.528	99	485	0.049	ng	0.00
8) Nitrobenzene-d5	8.461	82	618m	0.095	ng	0.00
11) 2-Methylnaphthalene-d10	11.682	152	1734	0.130	ng	0.00
14) 2,4,6-Tribromophenol	15.501	330	642	0.316	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	1472	0.129	ng	0.00
27) Fluoranthene-d10	18.804	212	2648	0.093	ng	0.00
31) Terphenyl-d14	19.436	244	2773	1.322	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.011	88	6115	2.169	ng	Qvalue 91

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

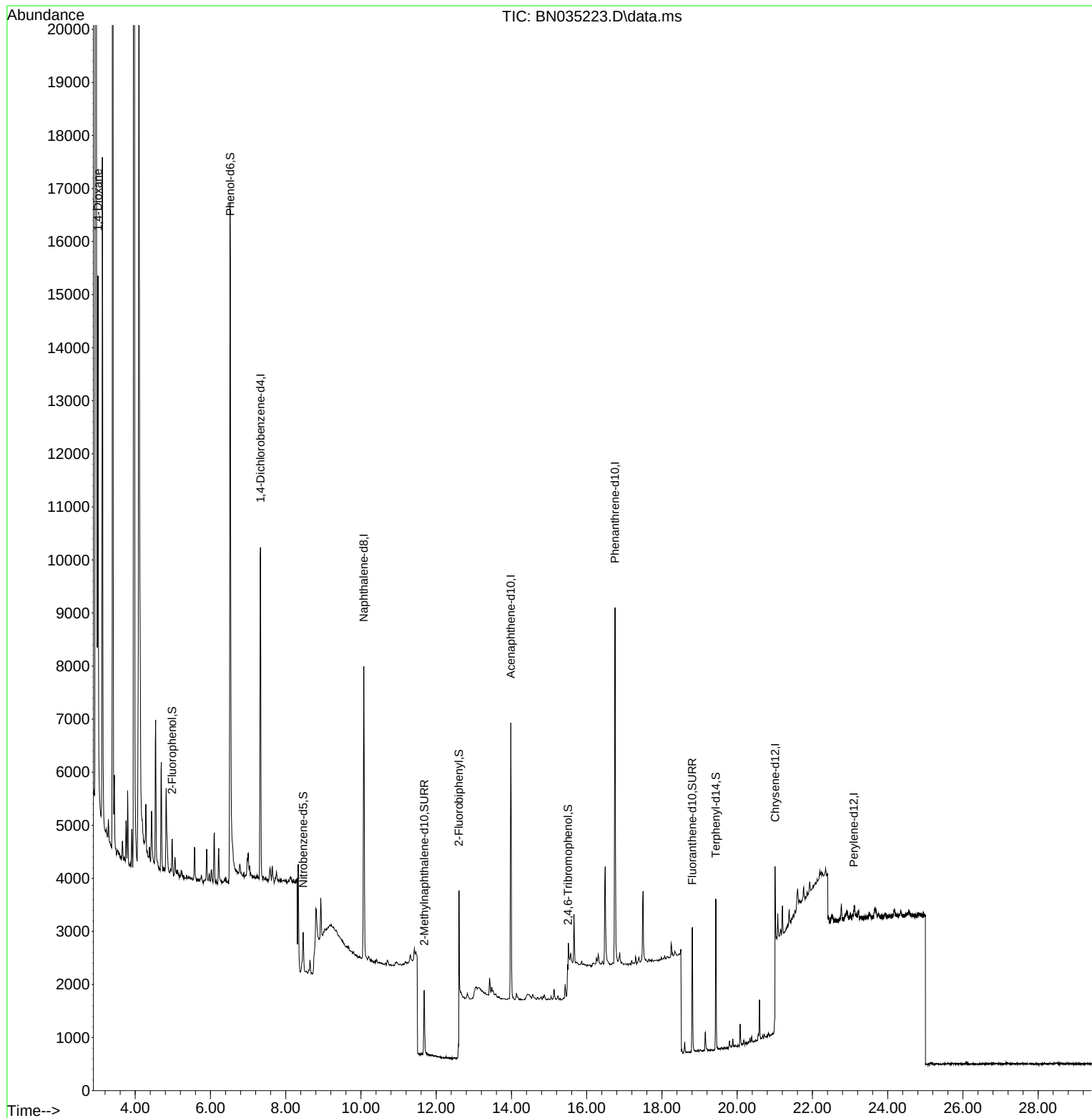
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Data File : BN035223.D
Acq On : 21 Nov 2024 15:48
Operator : RC/JU
Sample : P4866-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

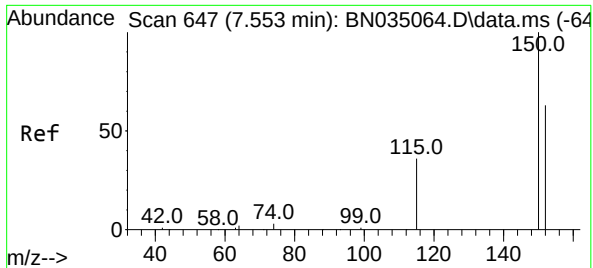
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

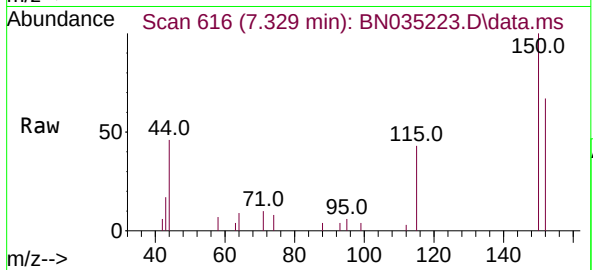
Quant Time: Nov 21 16:50:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

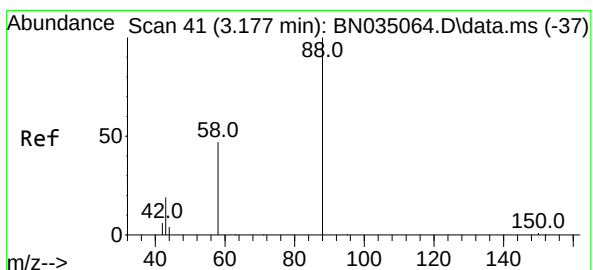
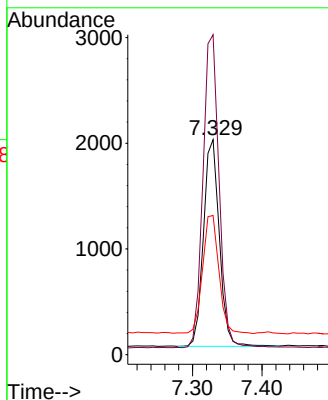
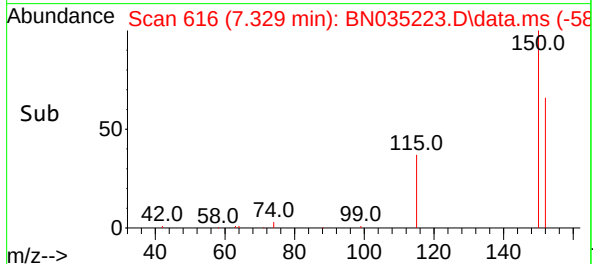
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114



Tgt Ion: 152 Resp: 3104
Ion Ratio Lower Upper
152 100
150 148.8 124.5 186.7
115 64.7 47.8 71.6

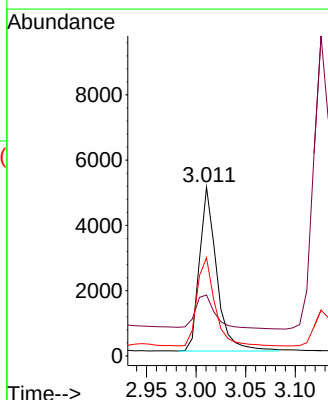
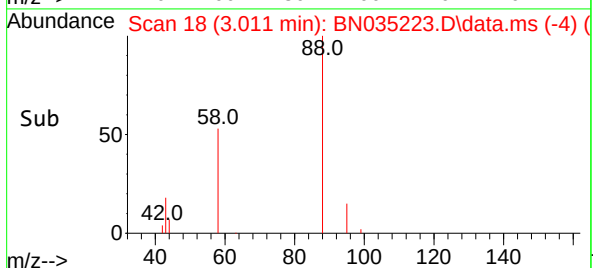
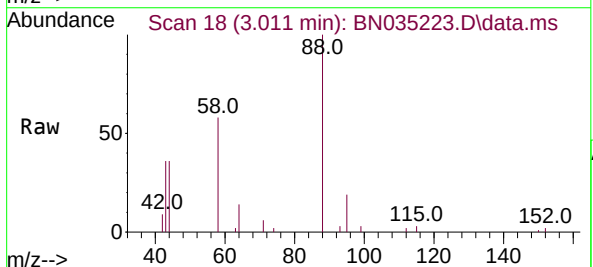
Manual Integrations
APPROVED

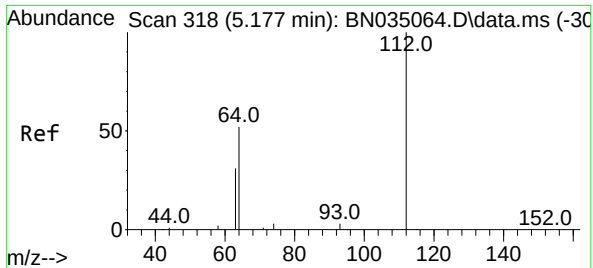
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#2
1,4-Dioxane
Concen: 2.169 ng
RT: 3.011 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion: 88 Resp: 6115
Ion Ratio Lower Upper
88 100
43 24.3 16.9 25.3
58 55.6 39.0 58.4





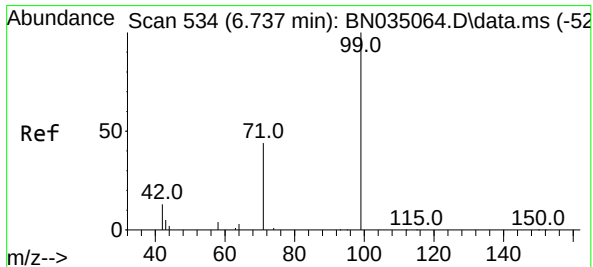
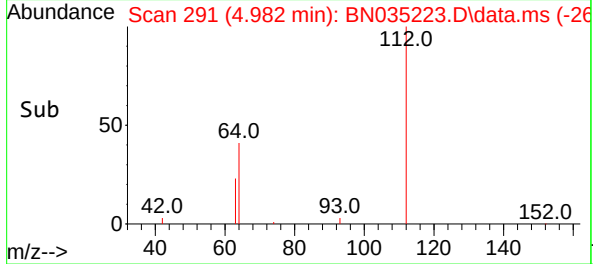
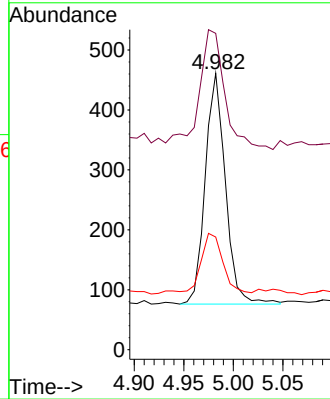
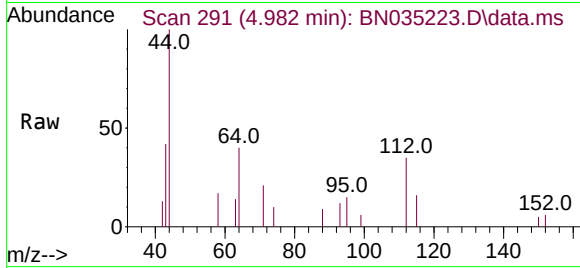
#4
2-Fluorophenol
Concen: 0.069 ng
RT: 4.982 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

Tgt Ion:112 Resp: 549
Ion Ratio Lower Upper
112 100
64 67.0 39.7 59.5
63 29.5 23.0 34.4

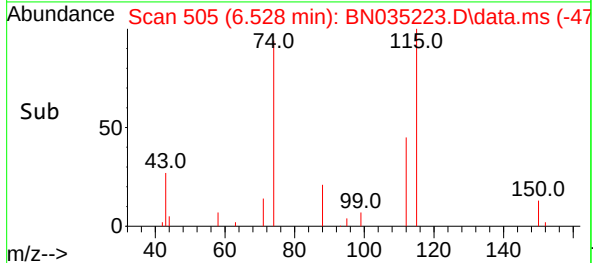
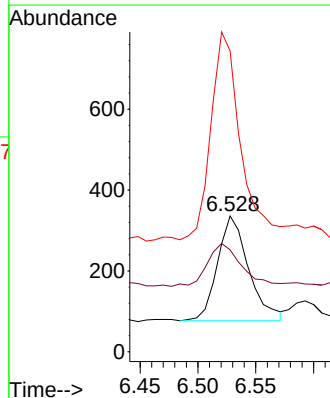
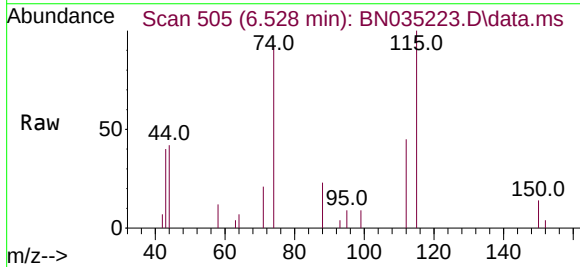
Manual Integrations
APPROVED

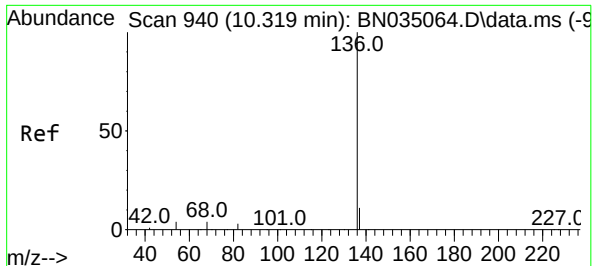
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#5
Phenol-d6
Concen: 0.049 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion: 99 Resp: 485
Ion Ratio Lower Upper
99 100
42 43.1 11.4 17.0#
71 212.8 34.6 51.8#





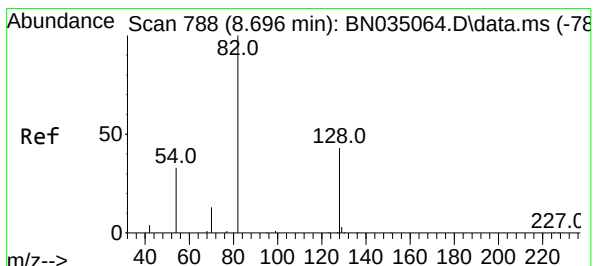
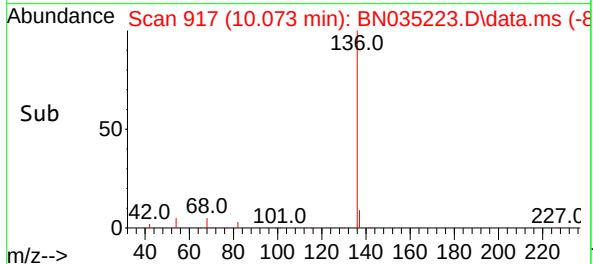
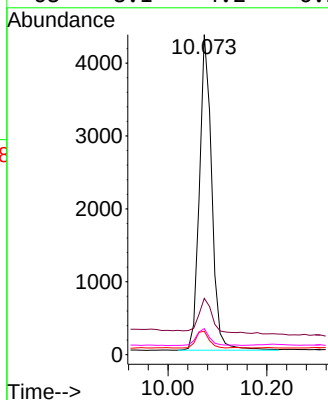
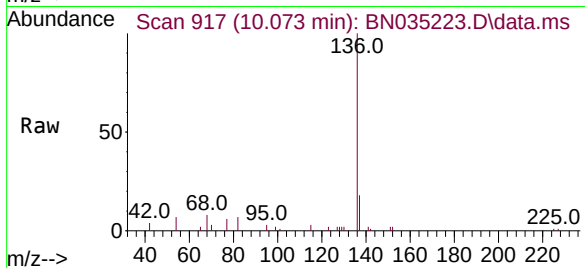
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

Tgt Ion:136 Resp: 7479
Ion Ratio Lower Upper
136 100
137 17.6 9.8 14.8
54 7.3 4.0 6.0
68 8.1 4.2 6.2

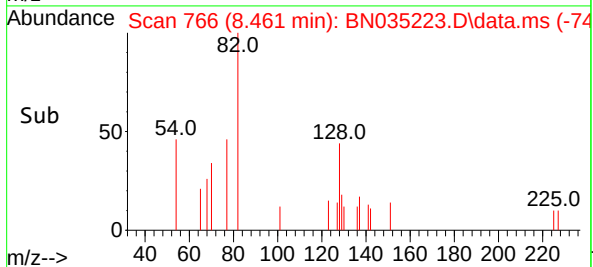
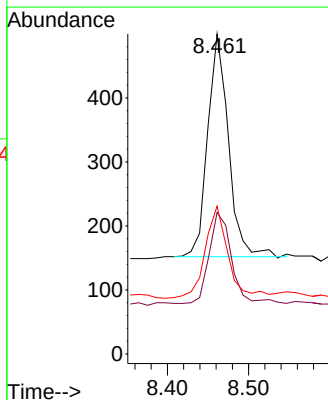
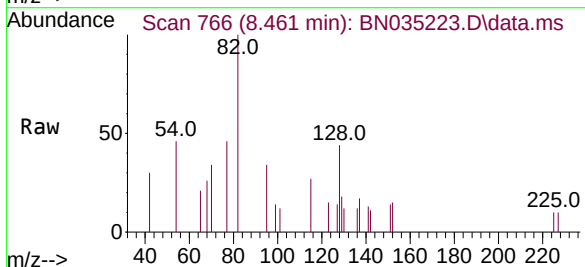
Manual Integrations
APPROVED

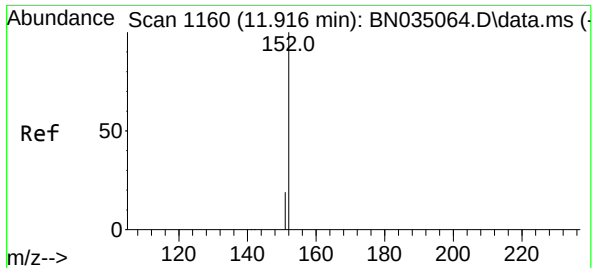
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#8
Nitrobenzene-d5
Concen: 0.095 ng m
RT: 8.461 min Scan# 766
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

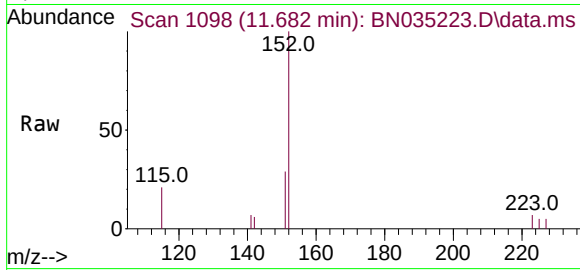
Tgt Ion: 82 Resp: 618
Ion Ratio Lower Upper
82 100
128 44.2 36.5 54.7
54 46.2 28.7 43.1





#11
2-Methylnaphthalene-d10
Concen: 0.130 ng
RT: 11.682 min Scan# 1098
Delta R.T. 0.004 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

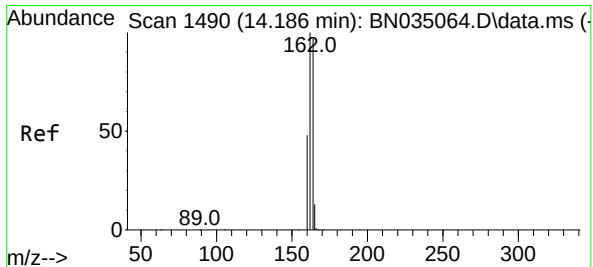
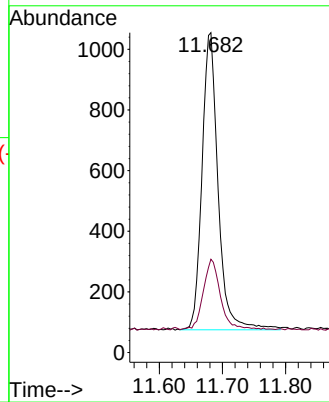
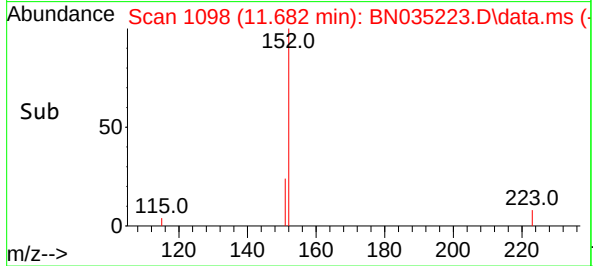
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114



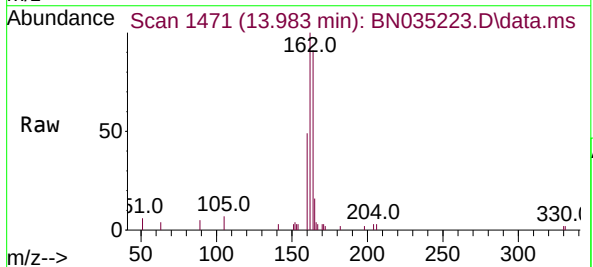
Tgt Ion:152 Resp: 1734
Ion Ratio Lower Upper
152 100
151 25.0 16.2 24.4

Manual Integrations
APPROVED

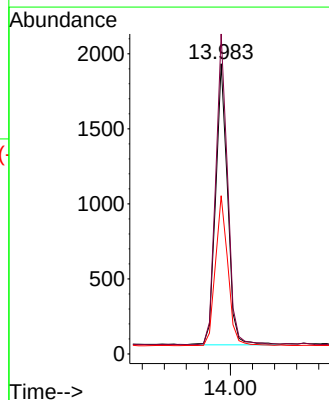
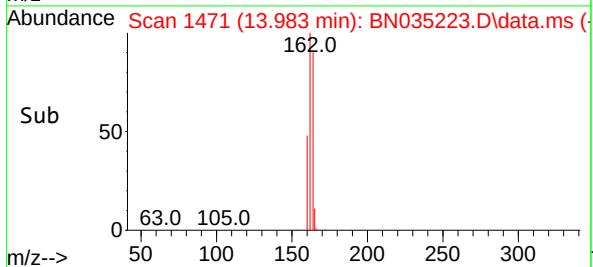
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

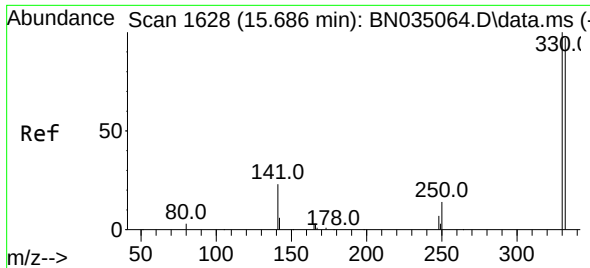


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.983 min Scan# 1471
Delta R.T. -0.004 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48



Tgt Ion:164 Resp: 2812
Ion Ratio Lower Upper
164 100
162 110.2 82.2 123.2
160 54.5 40.2 60.4





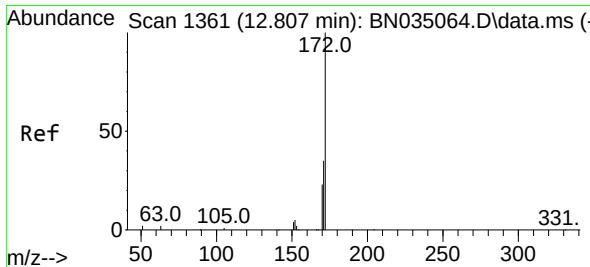
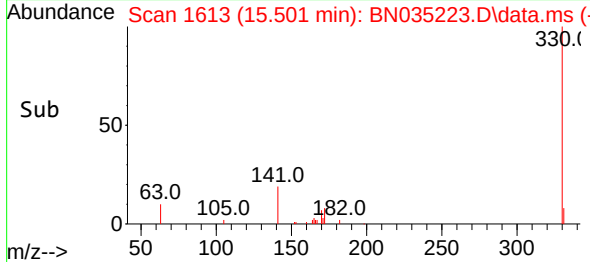
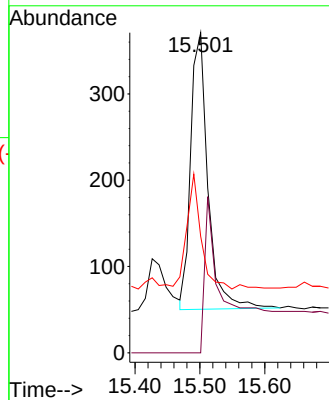
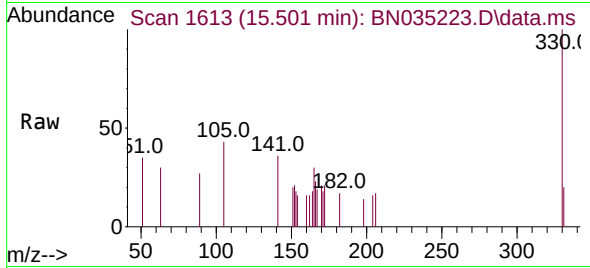
#14
2,4,6-Tribromophenol
Concen: 0.316 ng
RT: 15.501 min Scan# 1613
Delta R.T. 0.007 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

Tgt Ion:330 Resp: 64
Ion Ratio Lower Upper
330 100
332 76.6 76.9 115.3
141 0.0 29.6 44.4

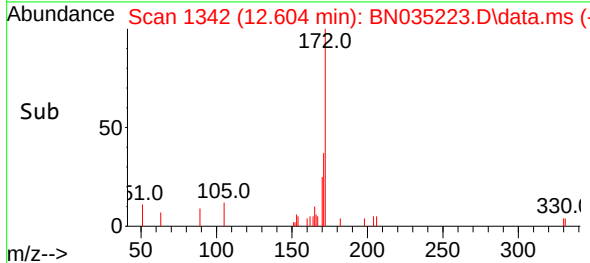
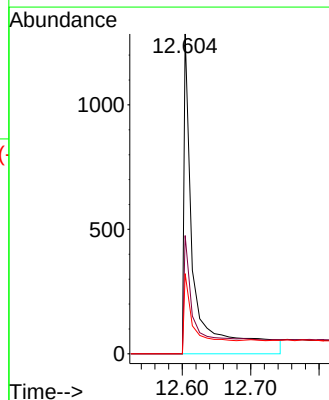
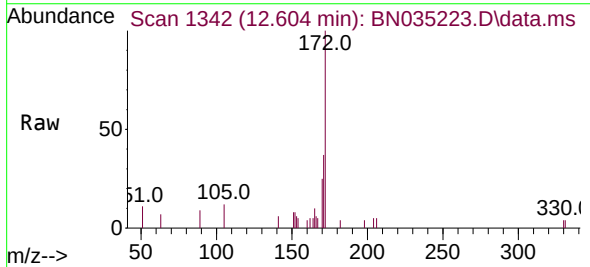
Manual Integrations
APPROVED

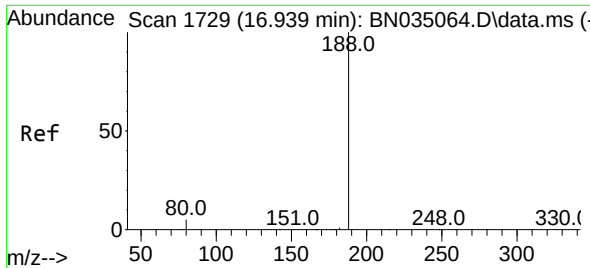
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#15
2-Fluorobiphenyl
Concen: 0.129 ng
RT: 12.604 min Scan# 1342
Delta R.T. -0.004 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion:172 Resp: 1472
Ion Ratio Lower Upper
172 100
171 37.0 28.2 42.4
170 25.1 19.0 28.6





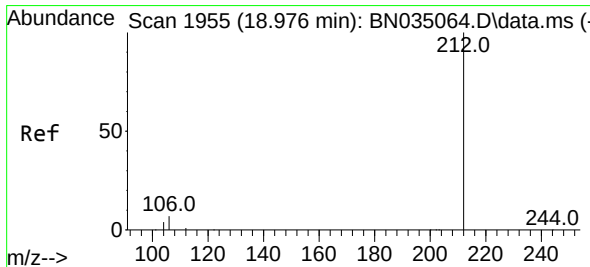
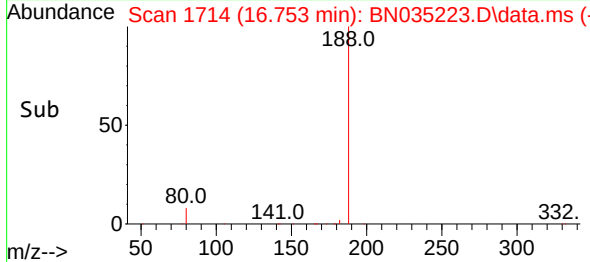
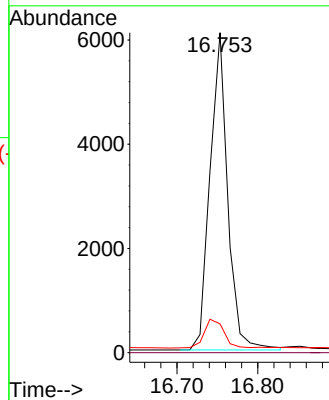
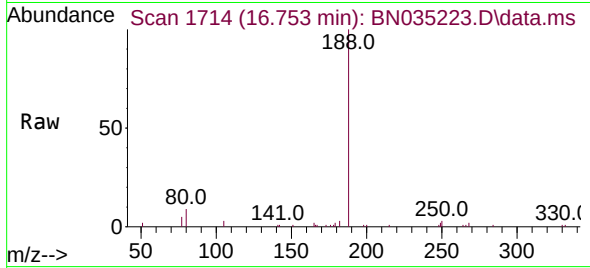
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.753 min Scan# 11
Delta R.T. 0.007 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

Tgt Ion:188 Resp: 926
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.0 4.3 6.5

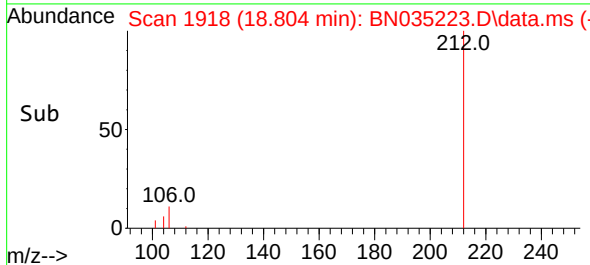
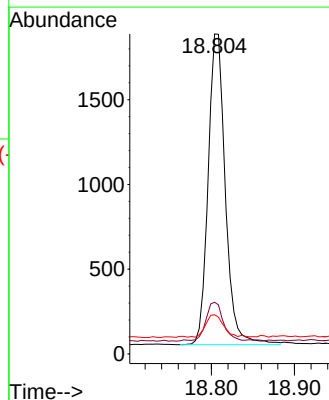
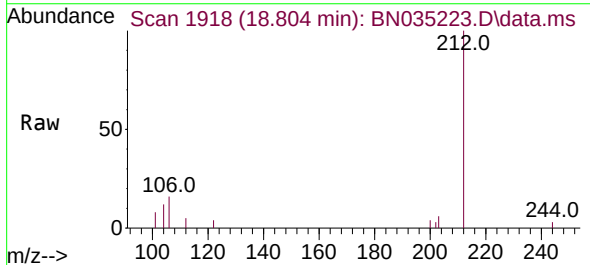
Manual Integrations
APPROVED

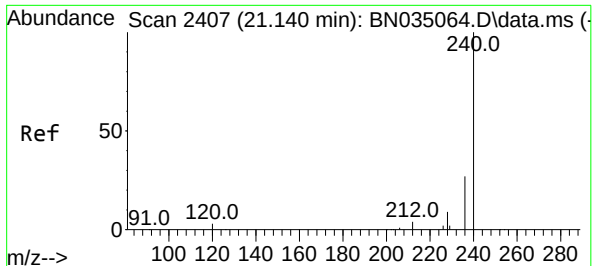
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#27
Fluoranthene-d10
Concen: 0.093 ng
RT: 18.804 min Scan# 1918
Delta R.T. -0.002 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion:212 Resp: 2648
Ion Ratio Lower Upper
212 100
106 12.9 6.0 9.0#
104 7.5 3.5 5.3#





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

Instrument :

BNA_N

ClientSampleId :

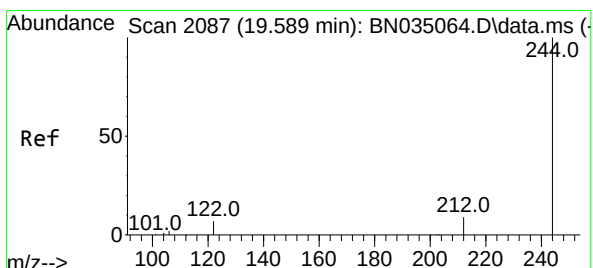
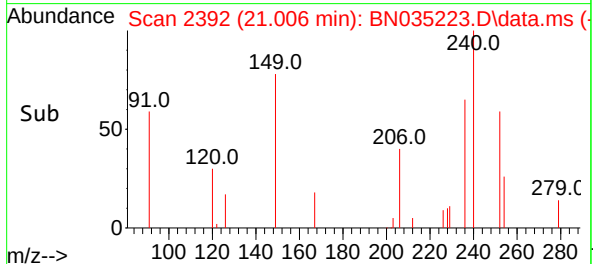
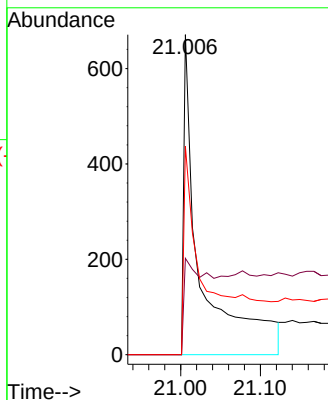
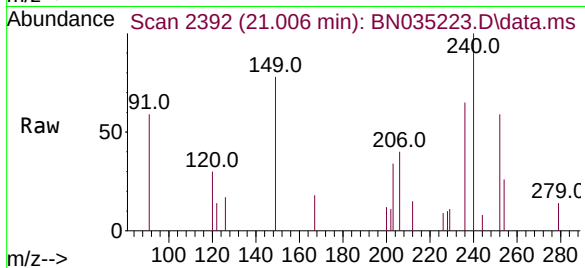
RW7-SP200-20241114

Tgt Ion:240	Resp:	1000
Ion Ratio	Lower	Upper
240	100	
120	30.1	3.8 5.6
236	65.1	22.2 33.2

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#31

Terphenyl-d14

Concen: 1.322 ng

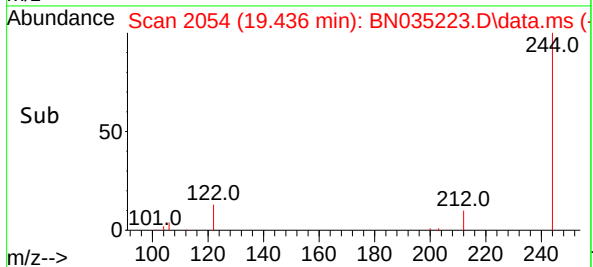
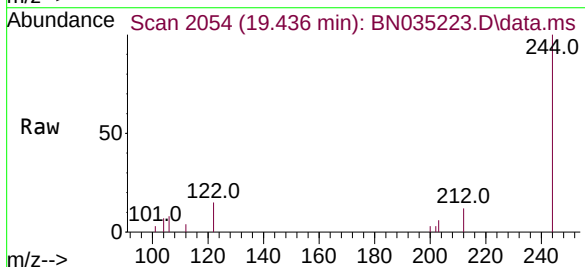
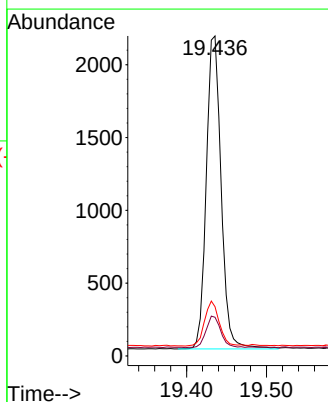
RT: 19.436 min Scan# 2054

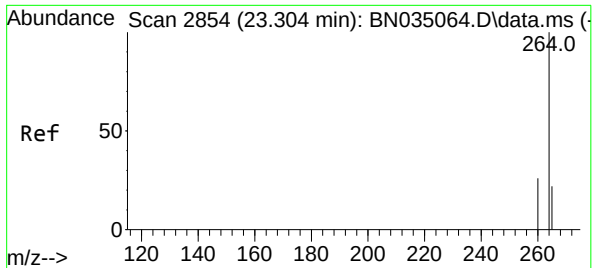
Delta R.T. -0.002 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

Tgt Ion:244	Resp:	2773
Ion Ratio	Lower	Upper
244	100	
212	12.1	7.6 11.4#
122	15.4	6.1 9.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.102 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035223.D

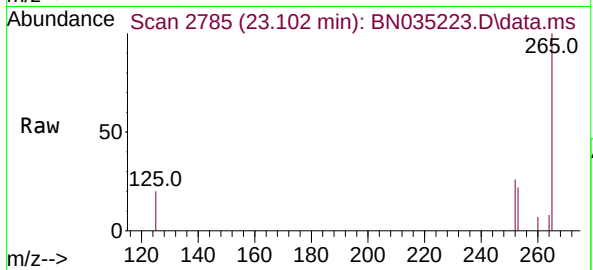
Acq: 21 Nov 2024 15:48

Instrument :

BNA_N

ClientSampleId :

RW7-SP200-20241114



Tgt Ion:264 Resp: 15

Ion Ratio Lower Upper

264 100

260 80.5 20.9 31.3

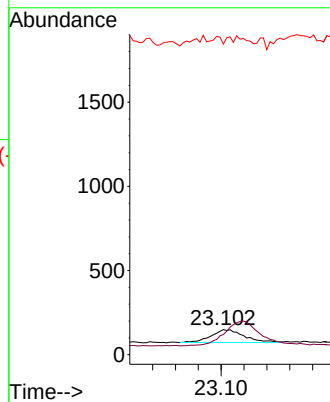
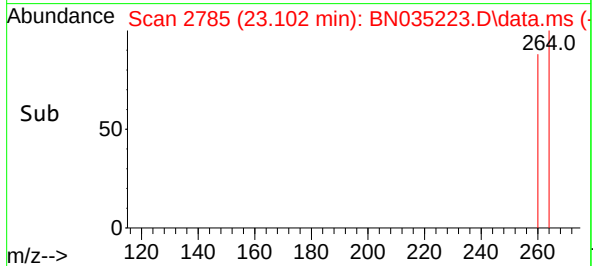
265 1238.3 35.4 53.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/14/24
Project:	CTO WE13	Date Received:	11/14/24
Client Sample ID:	RW7-SP201-20241114	SDG No.:	P4866
Lab Sample ID:	P4866-02	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035225.D	1	11/15/24 12:05	11/21/24 17:00	PB165012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.22	*	55 - 111		54%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.095	*	53 - 106		24%	SPK: 0.4
1718-51-0	Terphenyl-d14	2.29	*	58 - 132		573%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2730	7.329				
1146-65-2	Naphthalene-d8	6370	10.073				
15067-26-2	Acenaphthene-d10	3920	13.987				
1517-22-2	Phenanthrene-d10	8420	16.746				
1719-03-5	Chrysene-d12	1470	21.008				
1520-96-3	Perylene-d12	2670	23.104				

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\BN112124\
Data File : BN035225.D
Acq On : 21 Nov 2024 17:00
Operator : RC/JU
Sample : P4866-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

Quant Time: Nov 21 17:25:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	2730	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6373	0.400	ng	# 0.00
13) Acenaphthene-d10	13.987	164	3921	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	8423	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1472	0.400	ng	# 0.00
35) Perylene-d12	23.104	264	2672	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	1046	0.151	ng	0.00
5) Phenol-d6	6.535	99	777	0.089	ng	0.00
8) Nitrobenzene-d5	8.461	82	1192m	0.215	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	3504	0.309	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	989	0.350	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1511	0.095	ng	0.00
27) Fluoranthene-d10	18.806	212	9431	0.365	ng	0.00
31) Terphenyl-d14	19.433	244	7079	2.292	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.011	88	3185	1.284	ng	# 85
6) bis(2-Chloroethyl)ether	6.781	93	137	0.021	ng	# 78
12) 2-Methylnaphthalene	11.754	142	248	0.020	ng	# 72
18) Fluorene	15.045	166	432	0.027	ng	100
21) 4-Bromophenyl-phenylether	15.964	248	173	0.032	ng	# 44
22) Hexachlorobenzene	16.064	284	204	0.037	ng	# 87
25) Phenanthrene	16.796	178	719	0.032	ng	97
26) Anthracene	16.883	178	467m	0.023	ng	
28) Fluoranthene	18.834	202	734	0.024	ng	# 95
30) Pyrene	19.206	202	585	0.119	ng	97
36) Indeno(1,2,3-cd)pyrene	25.165	276	515	0.048	ng	# 55
37) Benzo(b)fluoranthene	22.484	252	728	0.081	ng	# 26
38) Benzo(k)fluoranthene	22.525	252	680	0.076	ng	# 19
39) Benzo(a)pyrene	23.014	252	345	0.044	ng	# 1
40) Dibenzo(a,h)anthracene	25.177	278	384	0.045	ng	# 1
41) Benzo(g,h,i)perylene	25.776	276	465	0.052	ng	# 23

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

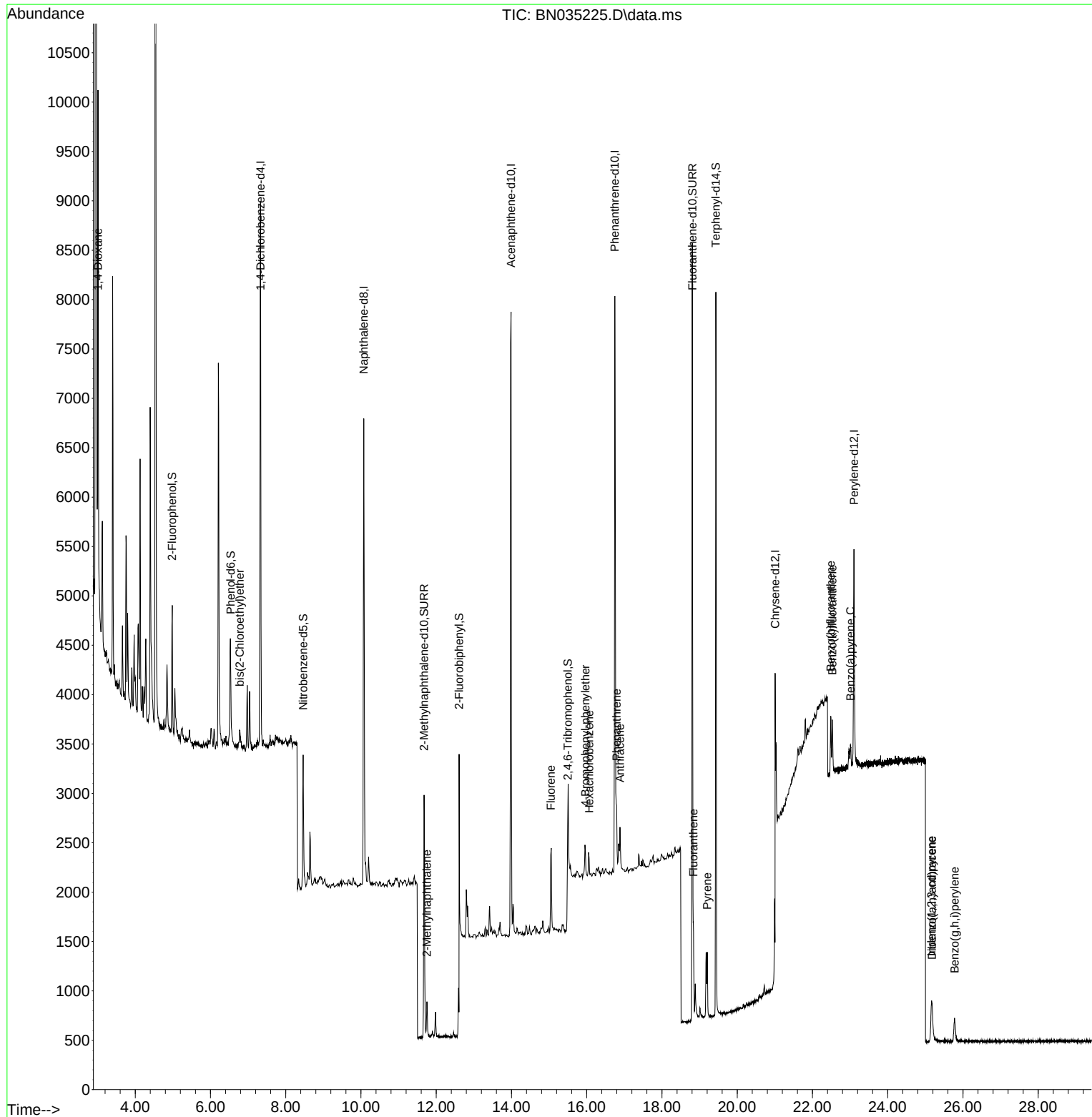
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Data File : BN035225.D
Acq On : 21 Nov 2024 17:00
Operator : RC/JU
Sample : P4866-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

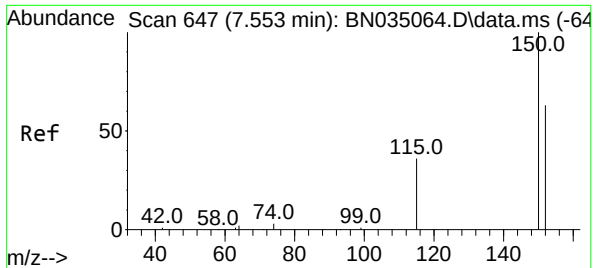
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

Manual Integrations
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Supervised By :mohammad ahmed 11/22/2024

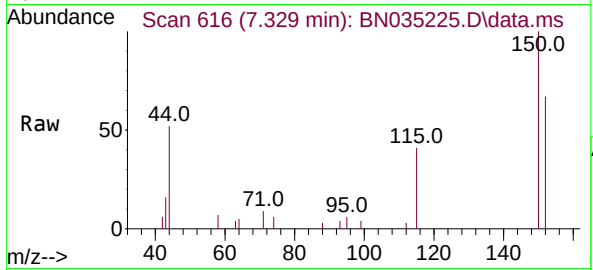
Quant Time: Nov 21 17:25:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

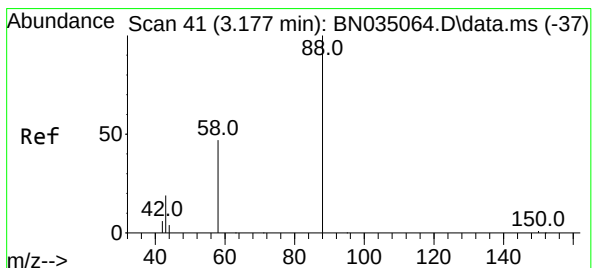
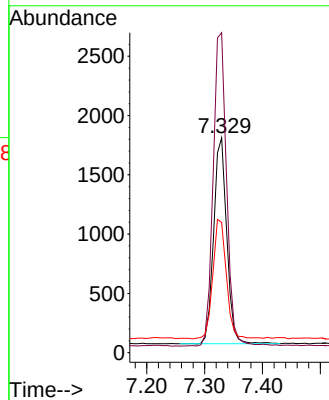
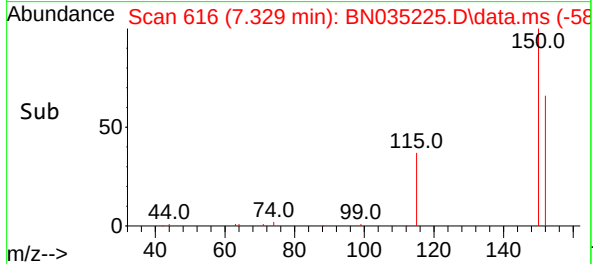
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114



Tgt Ion: 152 Resp: 2730
Ion Ratio Lower Upper
152 100
150 149.0 124.5 186.7
115 60.6 47.8 71.6

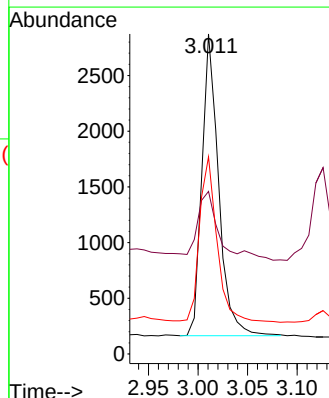
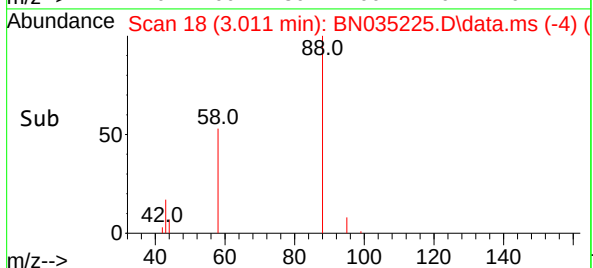
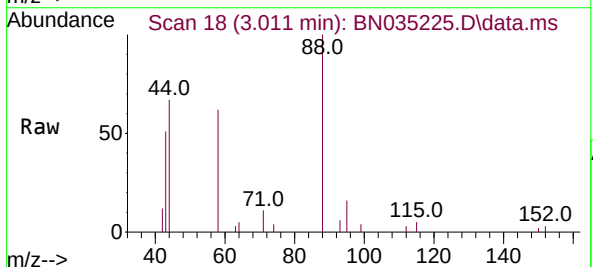
Manual Integrations
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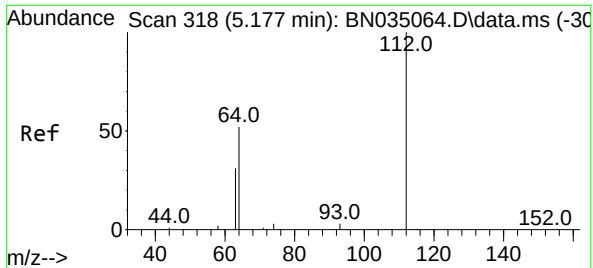
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#2
1,4-Dioxane
Concen: 1.284 ng
RT: 3.011 min Scan# 18
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion: 88 Resp: 3185
Ion Ratio Lower Upper
88 100
43 29.7 16.9 25.3#
58 57.5 39.0 58.4





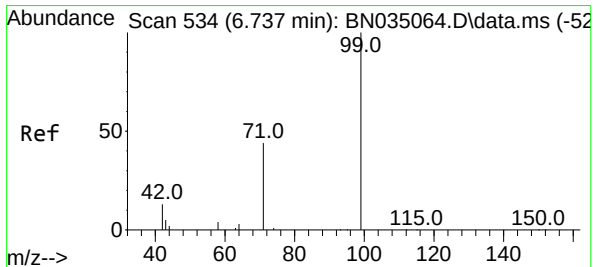
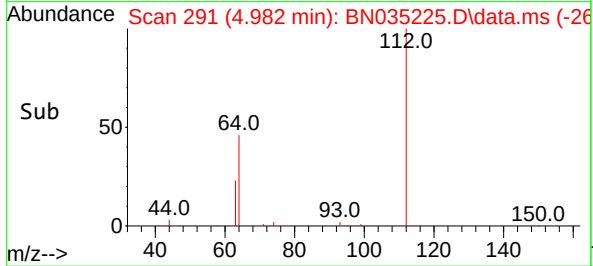
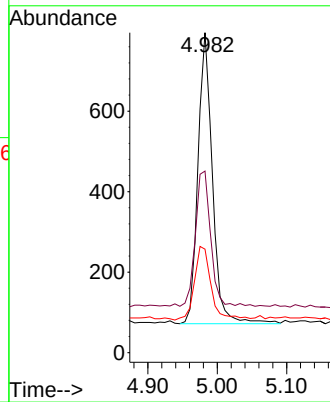
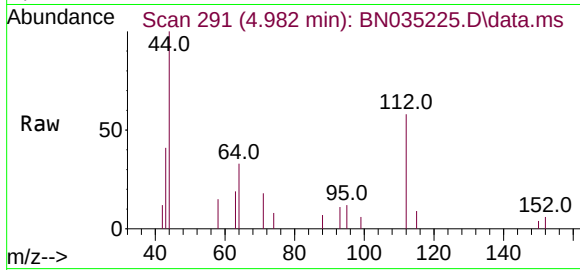
#4
2-Fluorophenol
Concen: 0.151 ng
RT: 4.982 min Scan# 291
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

Tgt Ion: 112 Resp: 104
Ion Ratio Lower Upper
112 100
64 48.2 39.7 59.5
63 29.3 23.0 34.4

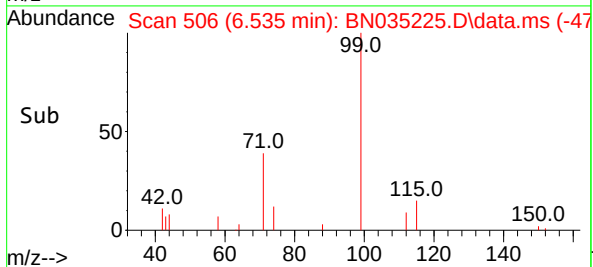
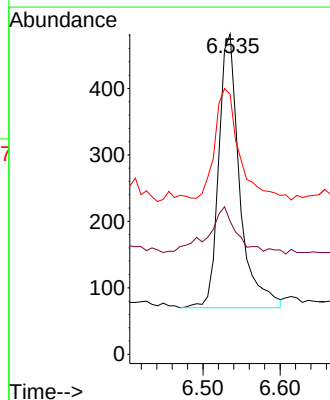
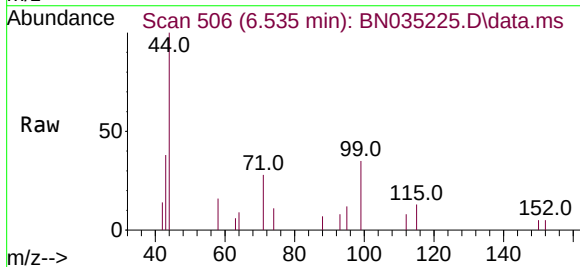
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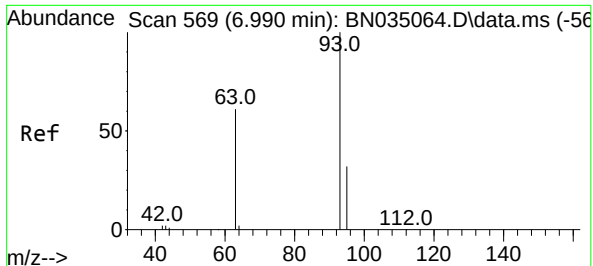
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#5
Phenol-d6
Concen: 0.089 ng
RT: 6.535 min Scan# 506
Delta R.T. 0.007 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion: 99 Resp: 777
Ion Ratio Lower Upper
99 100
42 25.0 11.4 17.0#
71 47.9 34.6 51.8





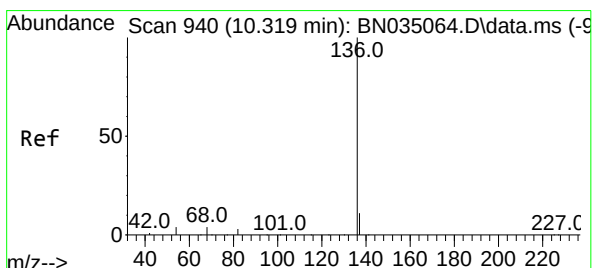
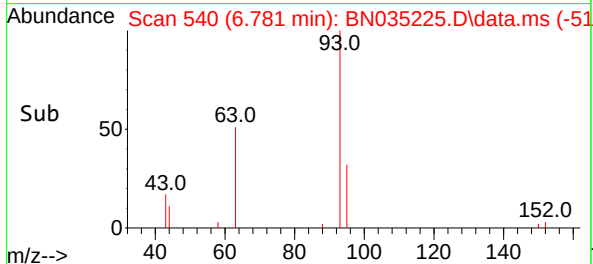
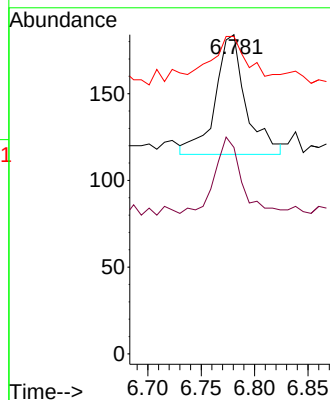
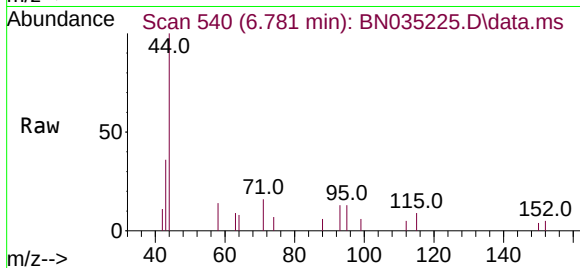
#6
bis(2-Chloroethyl)ether
Concen: 0.021 ng
RT: 6.781 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

Tgt Ion: 93 Resp: 13
Ion Ratio Lower Upper
93 100
63 63.5 47.4 71.2
95 61.3 26.2 39.4

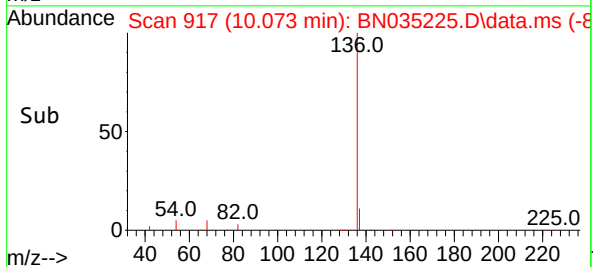
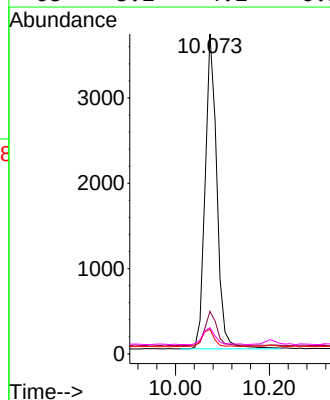
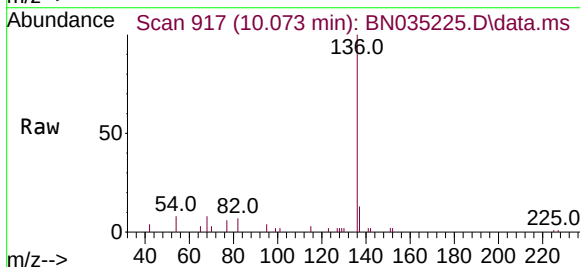
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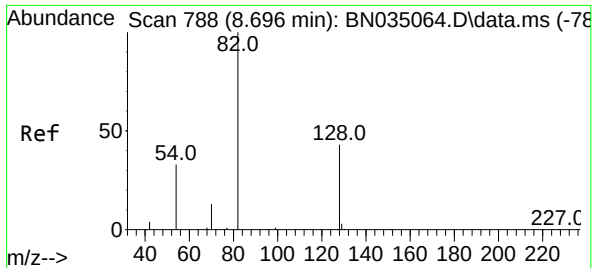
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:136 Resp: 6373
Ion Ratio Lower Upper
136 100
137 13.3 9.8 14.8
54 7.6 4.0 6.0#
68 8.2 4.2 6.2#





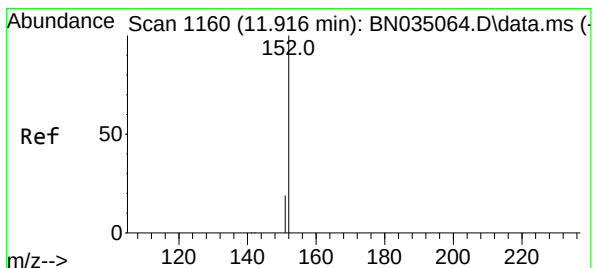
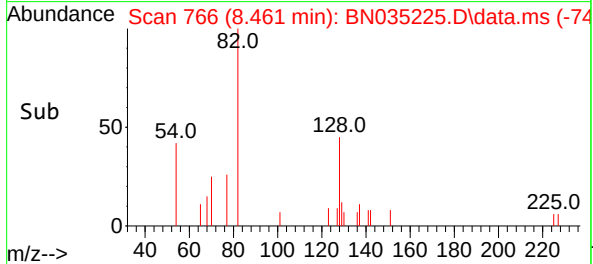
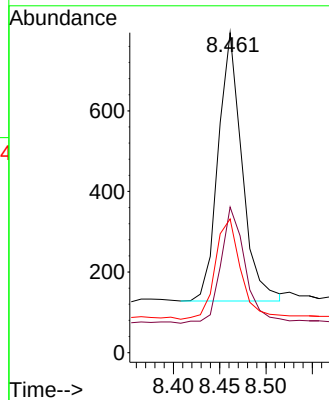
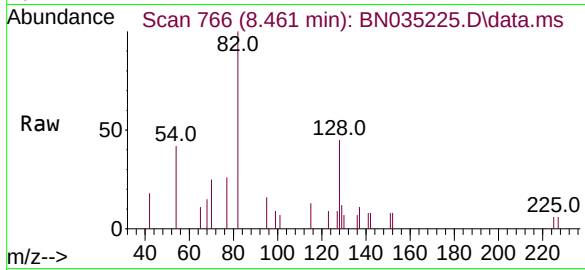
#8
Nitrobenzene-d5
Concen: 0.215 ng m
RT: 8.461 min Scan# 70
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

Tgt Ion: 82 Resp: 1192
Ion Ratio Lower Upper
82 100
128 45.5 36.5 54.7
54 41.8 28.7 43.1

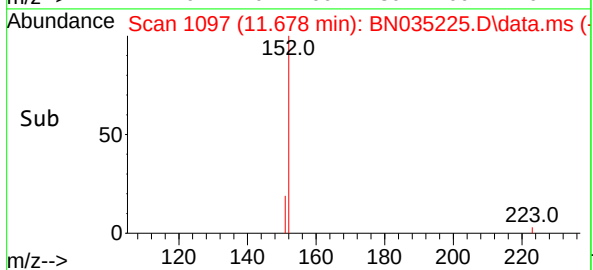
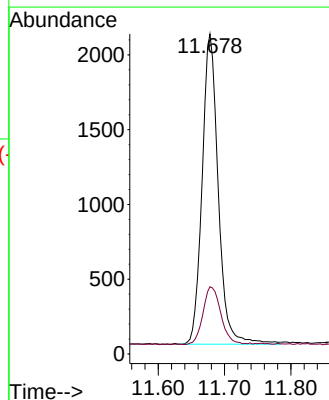
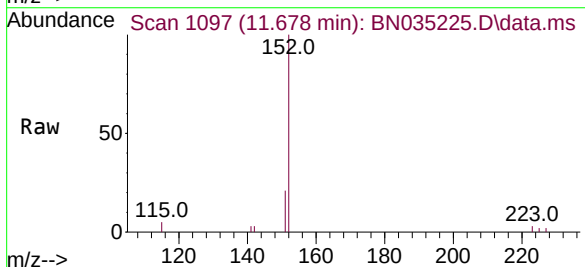
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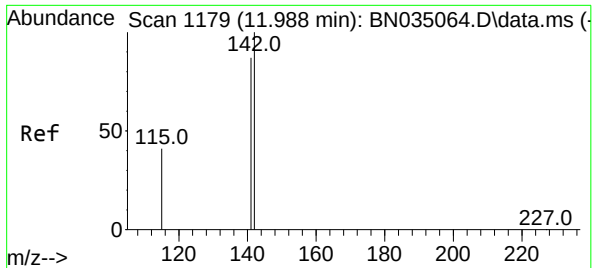
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 11.678 min Scan# 1097
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

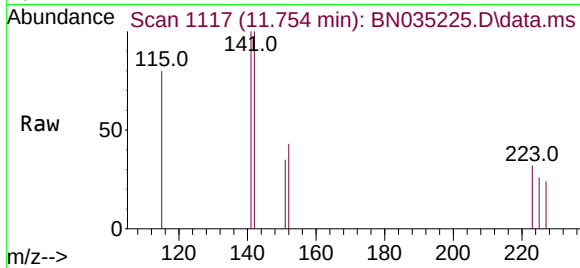
Tgt Ion:152 Resp: 3504
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.4





#12
2-Methylnaphthalene
Concen: 0.020 ng
RT: 11.754 min Scan# 1117
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

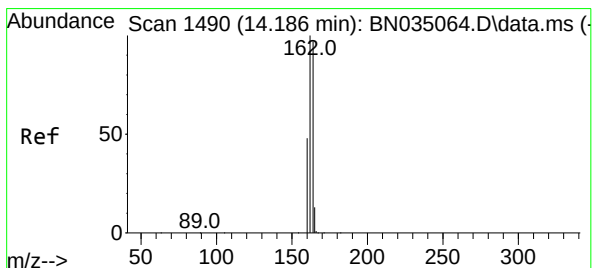
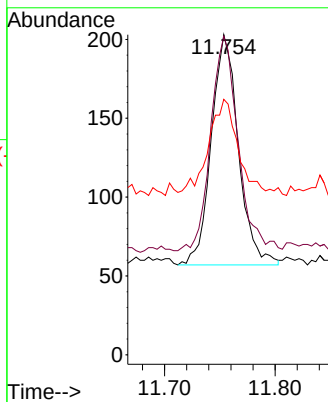
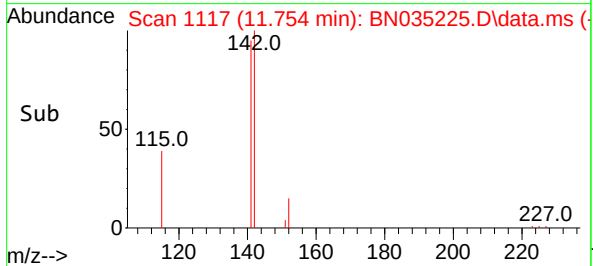
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114



Tgt Ion:142 Resp: 244
Ion Ratio Lower Upper
142 100
141 99.5 70.1 105.1
115 79.8 34.4 51.6

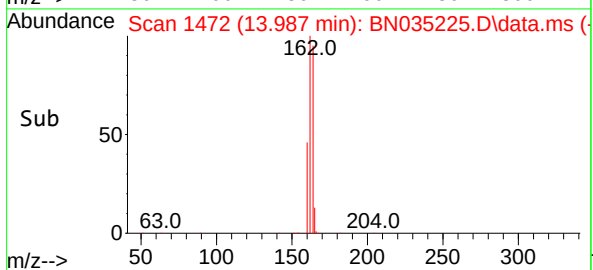
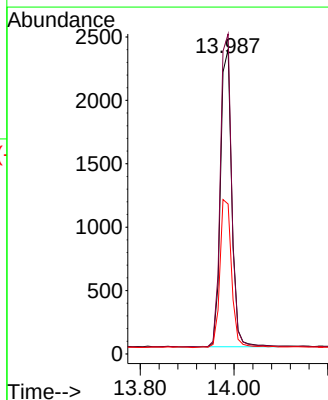
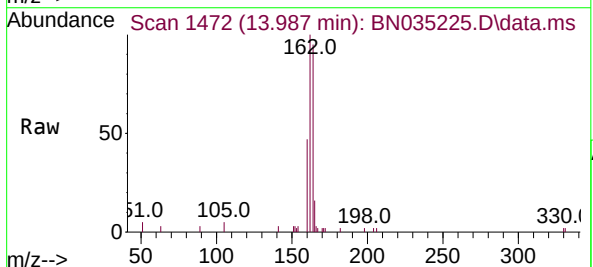
Manual Integrations
APPROVED

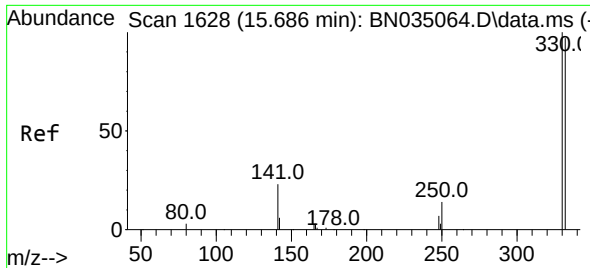
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.987 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

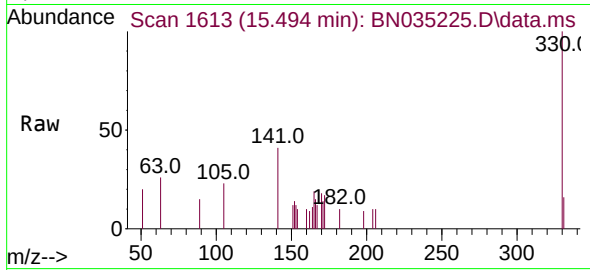
Tgt Ion:164 Resp: 3921
Ion Ratio Lower Upper
164 100
162 105.0 82.2 123.2
160 49.2 40.2 60.4





#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.494 min Scan# 10
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

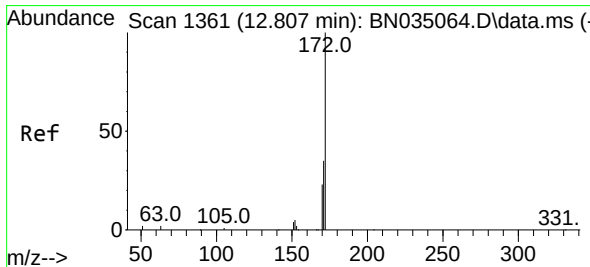
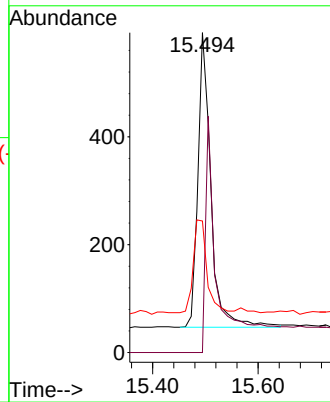
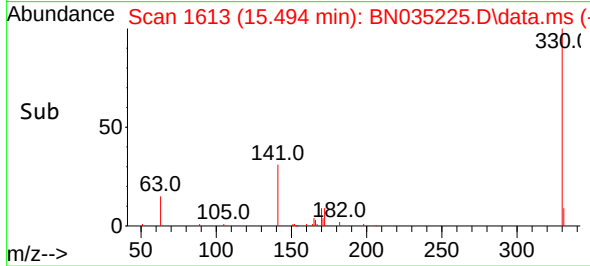
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114



Tgt Ion:330 Resp: 989
Ion Ratio Lower Upper
330 100
332 84.6 76.9 115.3
141 0.0 29.6 44.4

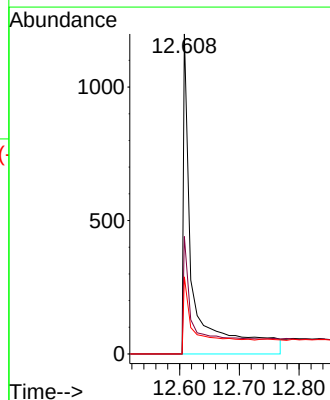
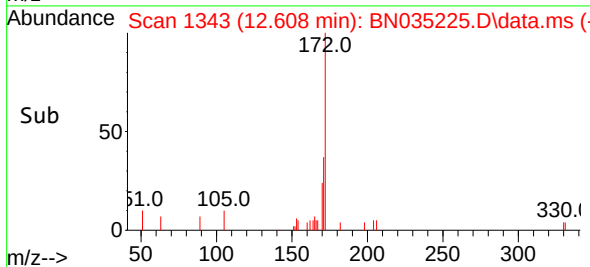
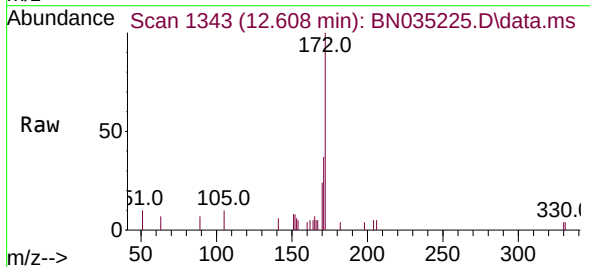
Manual Integrations
APPROVED

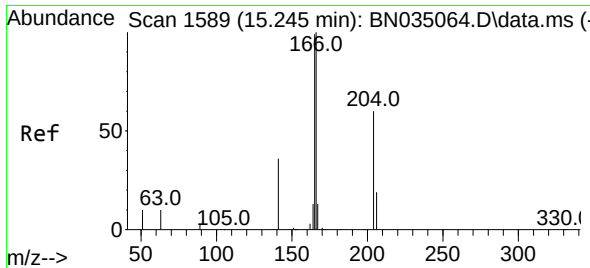
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.608 min Scan# 1343
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:172 Resp: 1511
Ion Ratio Lower Upper
172 100
171 36.7 28.2 42.4
170 24.1 19.0 28.6





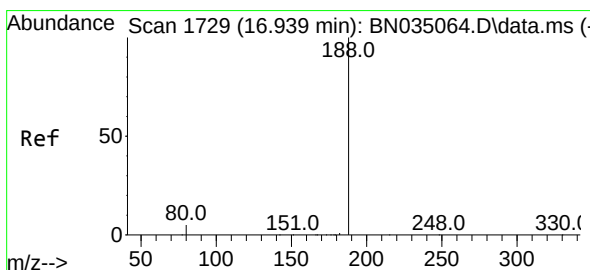
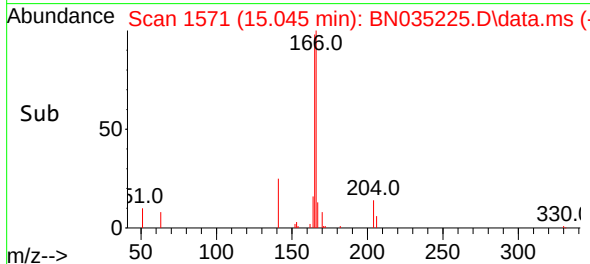
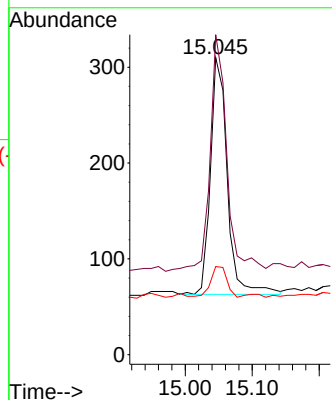
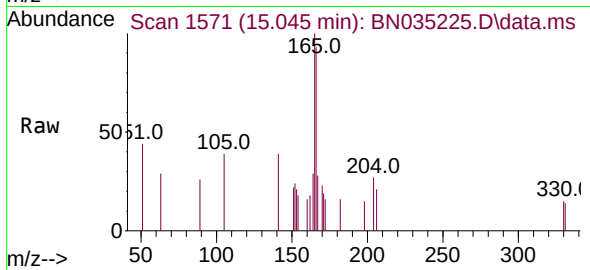
#18
Fluorene
Concen: 0.027 ng
RT: 15.045 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

Tgt Ion:166 Resp: 432
Ion Ratio Lower Upper
166 100
165 98.8 79.1 118.7
167 13.2 10.6 16.0

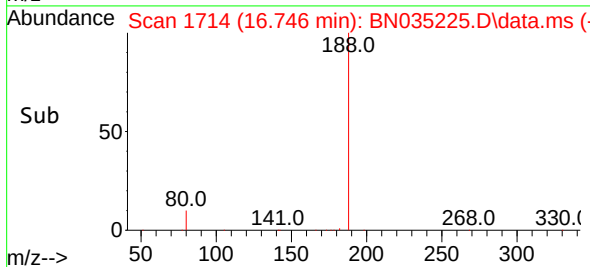
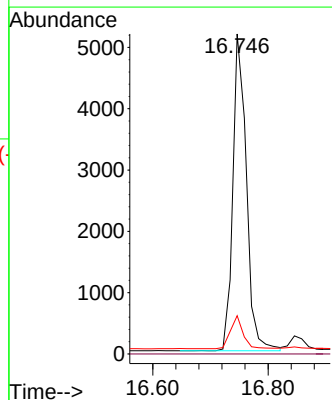
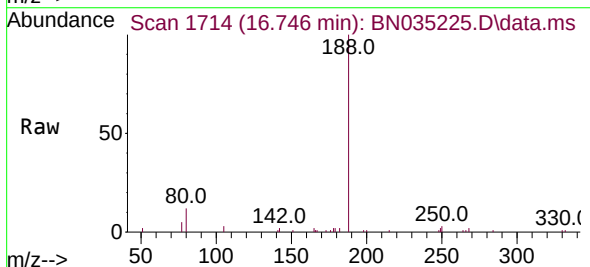
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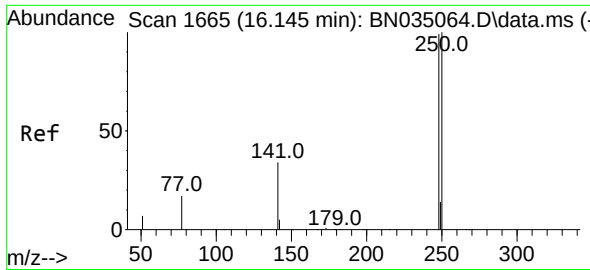
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

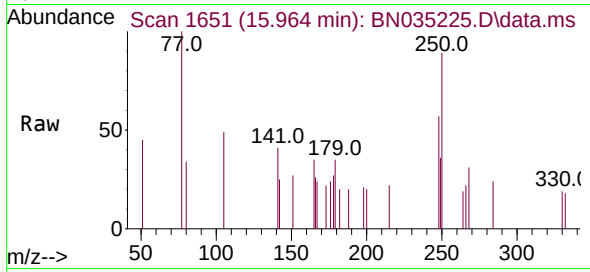
Tgt Ion:188 Resp: 8423
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.0 4.3 6.5#





#21
4-Bromophenyl-phenylether
Concen: 0.032 ng
RT: 15.964 min Scan# 1651
Delta R.T. 0.012 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

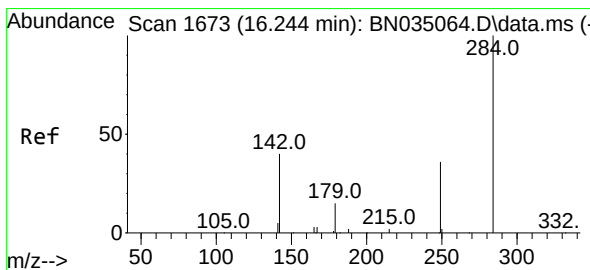
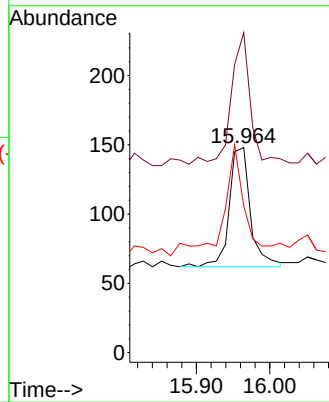
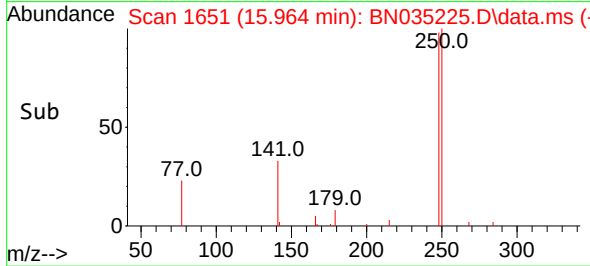
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114



Tgt Ion:248 Resp: 170
Ion Ratio Lower Upper
248 100
250 156.1 81.2 121.8
141 71.6 29.1 43.7

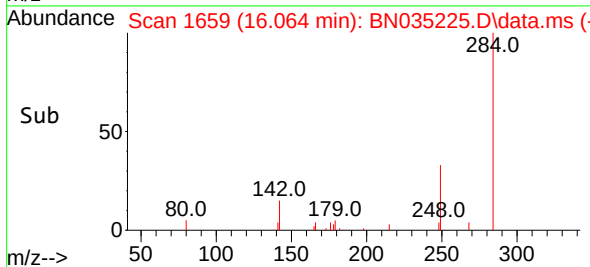
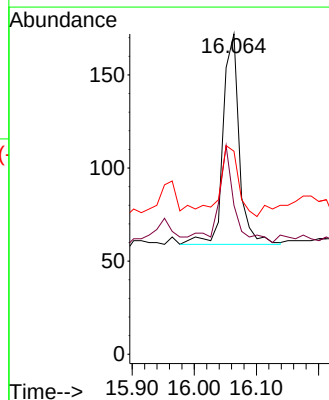
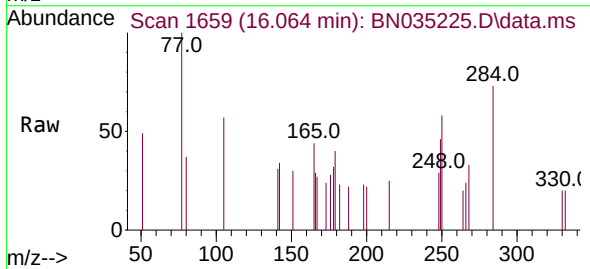
Manual Integrations
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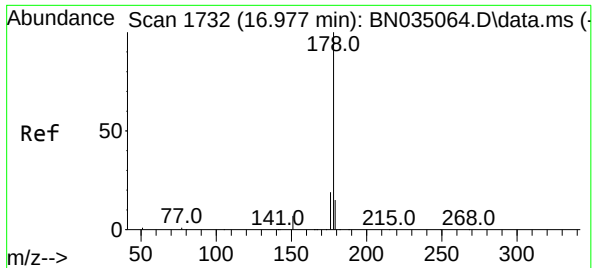
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#22
Hexachlorobenzene
Concen: 0.037 ng
RT: 16.064 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:284 Resp: 204
Ion Ratio Lower Upper
284 100
142 44.6 28.2 42.4
249 38.2 26.2 39.2





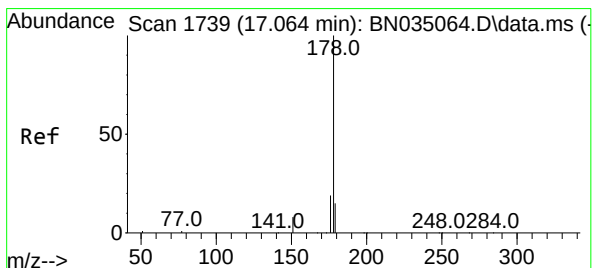
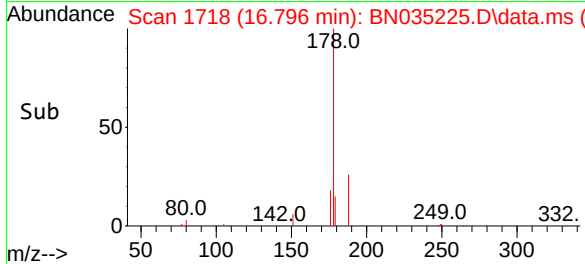
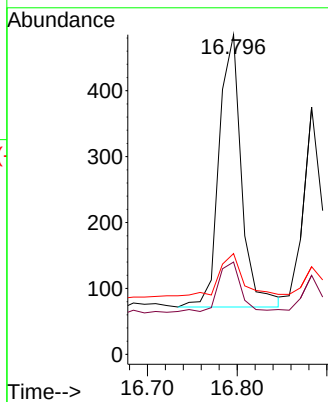
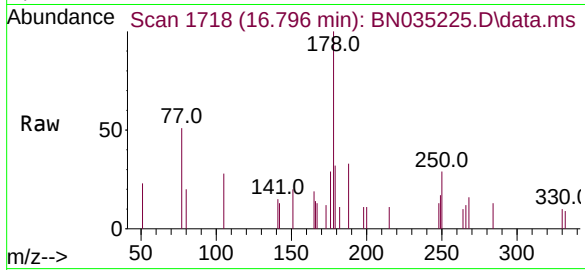
#25
Phenanthrene
Concen: 0.032 ng
RT: 16.796 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

Tgt Ion:178 Resp: 719
Ion Ratio Lower Upper
178 100
176 18.6 15.2 22.8
179 17.9 12.6 18.8

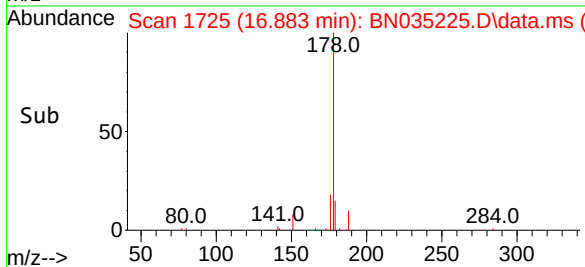
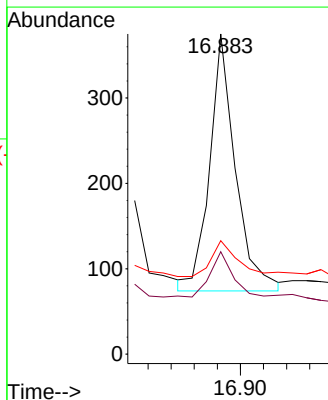
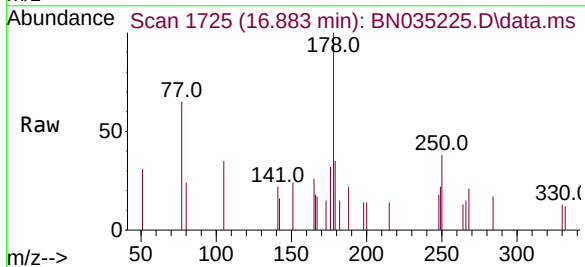
Manual Integrations
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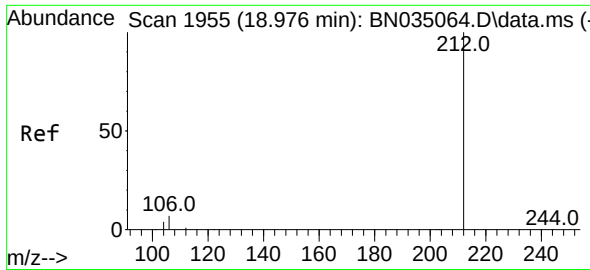
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#26
Anthracene
Concen: 0.023 ng m
RT: 16.883 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:178 Resp: 467
Ion Ratio Lower Upper
178 100
176 28.7 14.6 22.0#
179 25.7 12.2 18.2#





#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 18.806 min Scan# 1955

Delta R.T. 0.000 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

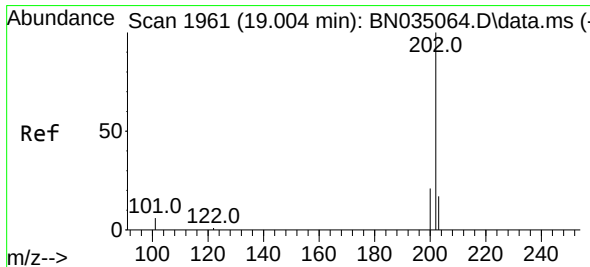
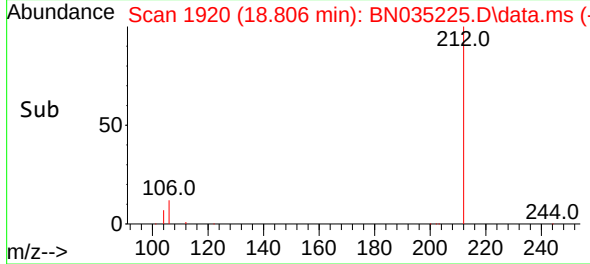
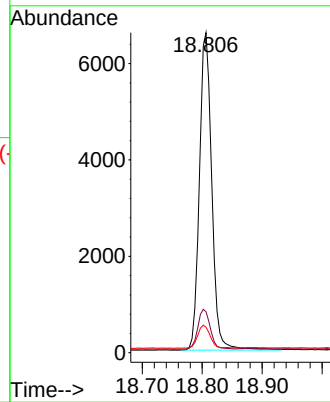
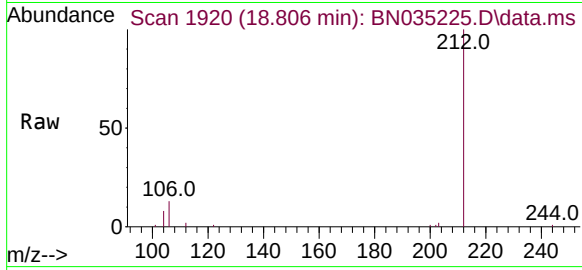
RW7-SP201-20241114

Tgt Ion:	212	Resp:	943
Ion Ratio	Lower	Upper	
212	100		
106	12.7	6.0	9.0
104	7.3	3.5	5.3

Manual Integrations
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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#28

Fluoranthene

Concen: 0.024 ng

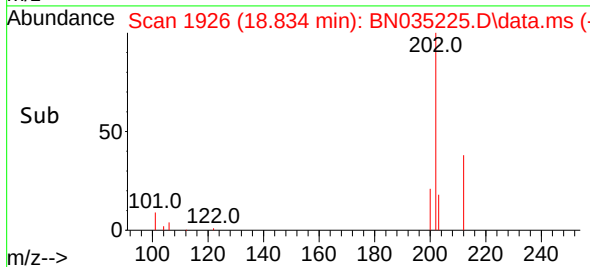
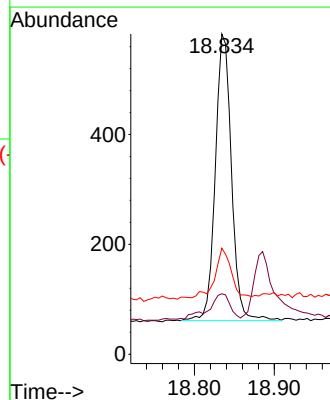
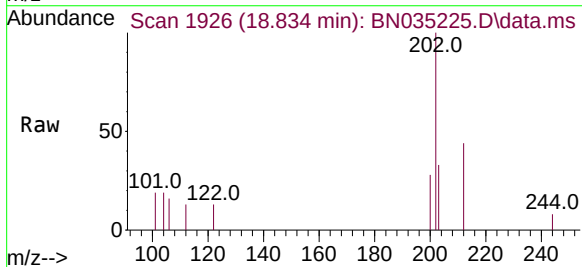
RT: 18.834 min Scan# 1926

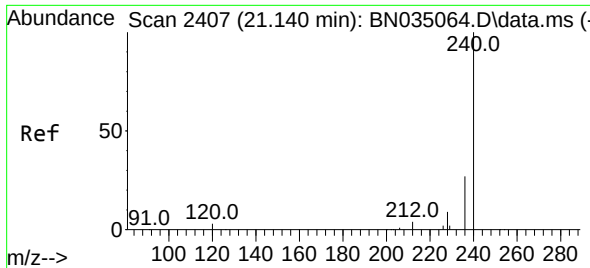
Delta R.T. -0.005 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

Tgt Ion:	202	Resp:	734
Ion Ratio	Lower	Upper	
202	100		
101	11.4	5.2	7.8
203	17.7	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241114

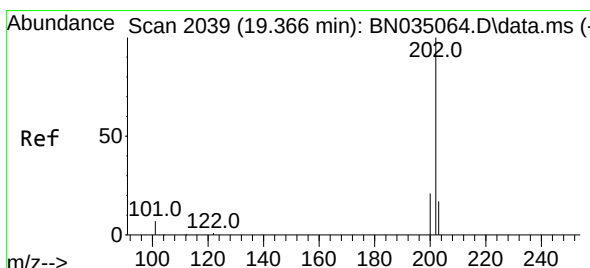
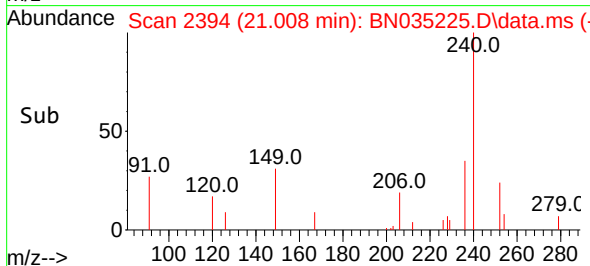
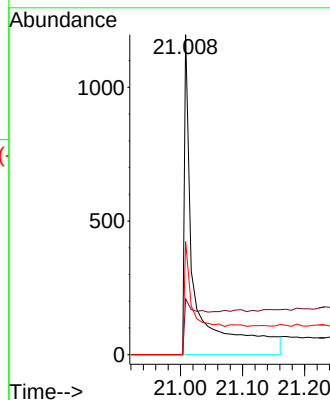
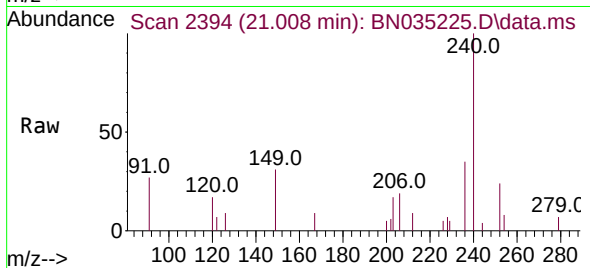
Tgt Ion:	240	Resp:	147
Ion Ratio	Lower	Upper	
240	100		
120	17.5	3.8	5.6
236	35.3	22.2	33.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#30

Pyrene

Concen: 0.119 ng

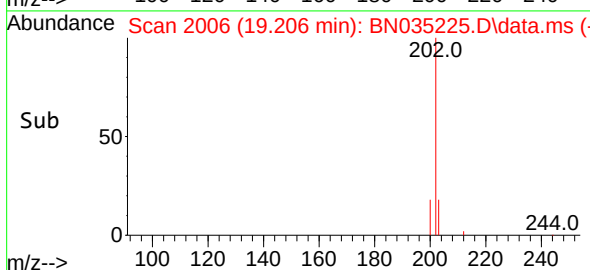
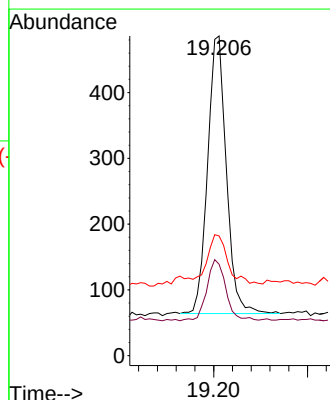
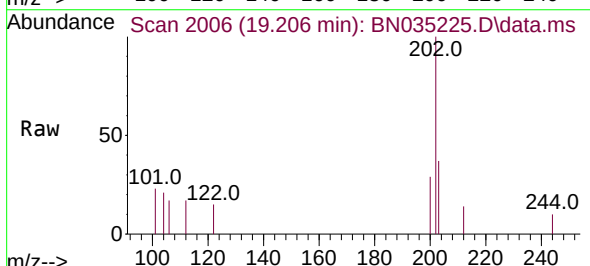
RT: 19.206 min Scan# 2006

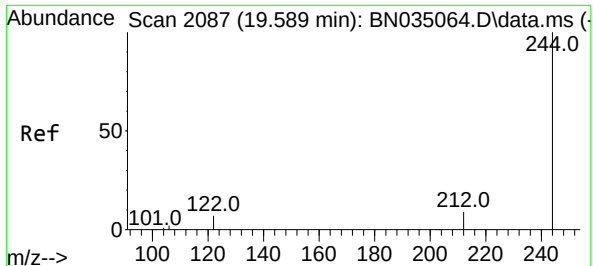
Delta R.T. 0.000 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

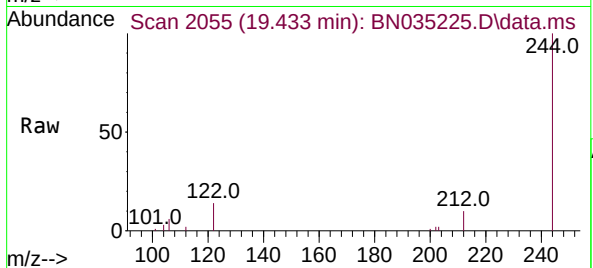
Tgt Ion:	202	Resp:	585
Ion Ratio	Lower	Upper	
202	100		
200	22.4	16.7	25.1
203	19.3	14.2	21.4





#31
Terphenyl-d14
Concen: 2.292 ng
RT: 19.433 min Scan# 2087
Delta R.T. -0.005 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

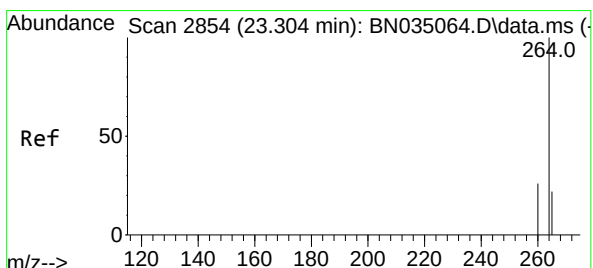
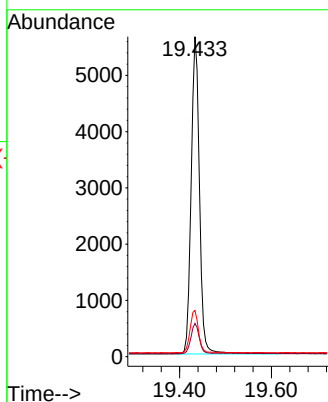
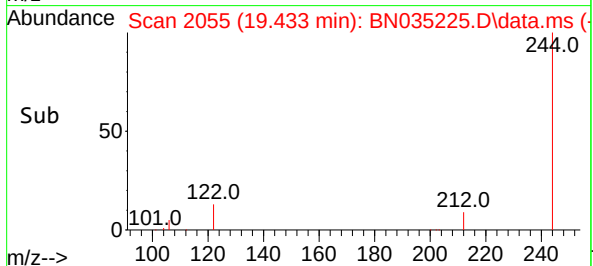
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114



Tgt Ion:244 Resp: 7079
Ion Ratio Lower Upper
244 100
212 10.4 7.6 11.4
122 14.5 6.1 9.1

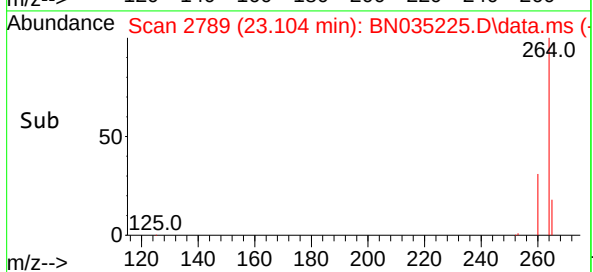
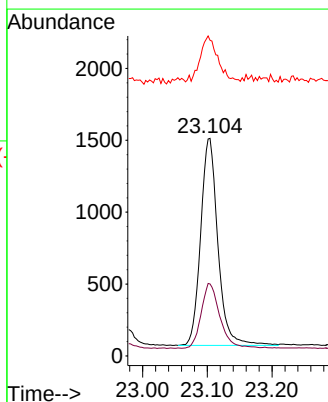
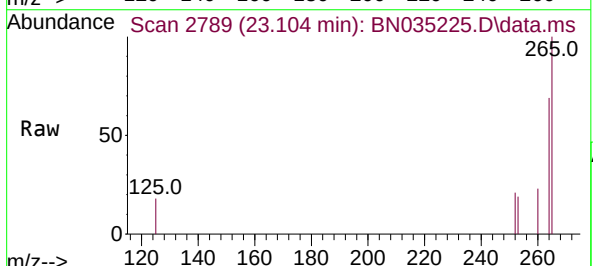
Manual Integrations
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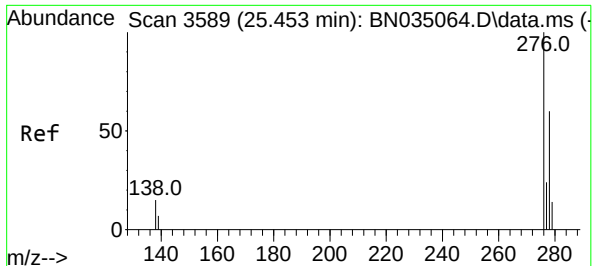
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.104 min Scan# 2789
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:264 Resp: 2672
Ion Ratio Lower Upper
264 100
260 33.1 20.9 31.3#
265 145.0 35.4 53.2#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.048 ng

RT: 25.165 min Scan# 34

Delta R.T. 0.009 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

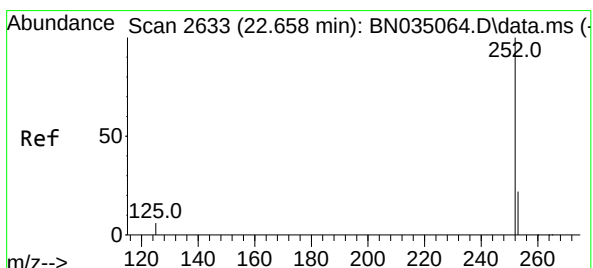
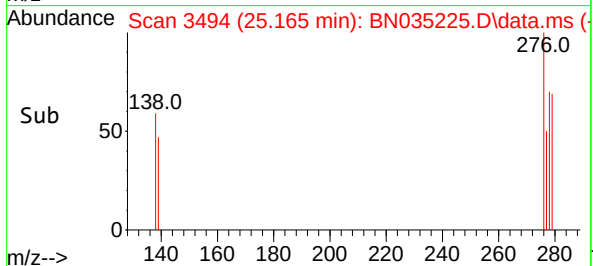
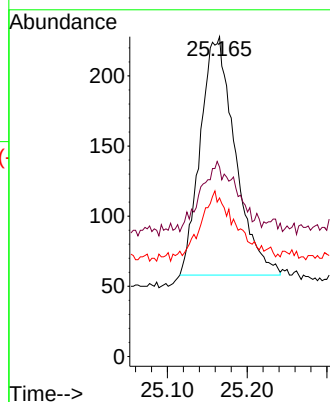
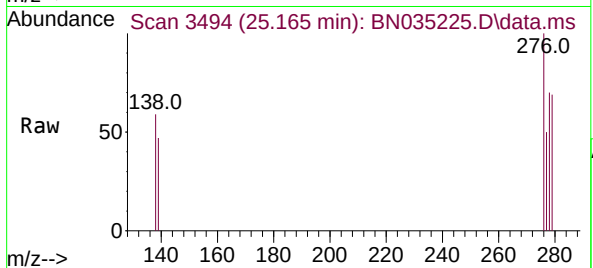
RW7-SP201-20241114

Tgt Ion:	276	Resp:	51
Ion Ratio	Lower	Upper	
276	100		
138	0.0	13.0	19.4
277	0.0	19.8	29.6

Manual Integrations
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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#37

Benzo(b)fluoranthene

Concen: 0.081 ng

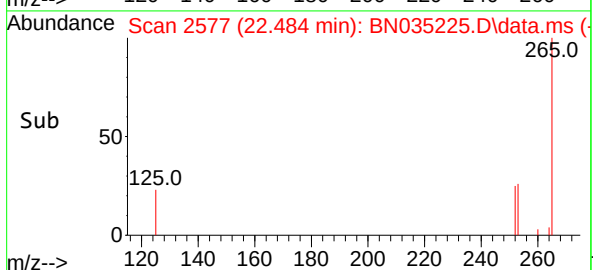
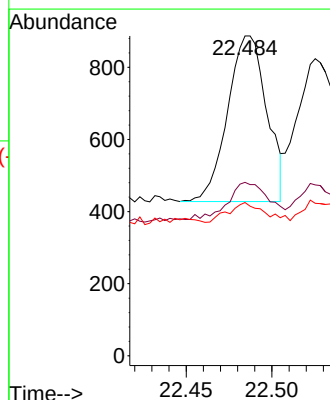
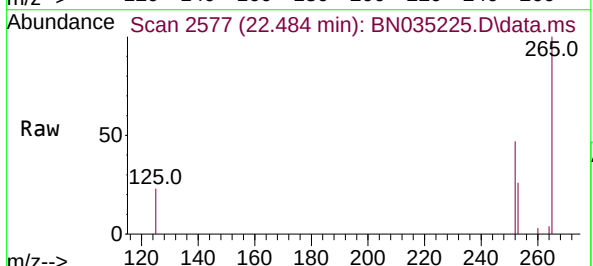
RT: 22.484 min Scan# 2577

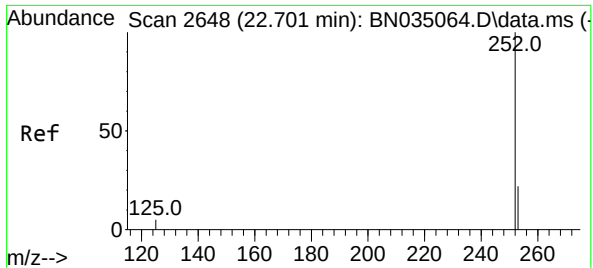
Delta R.T. -0.003 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

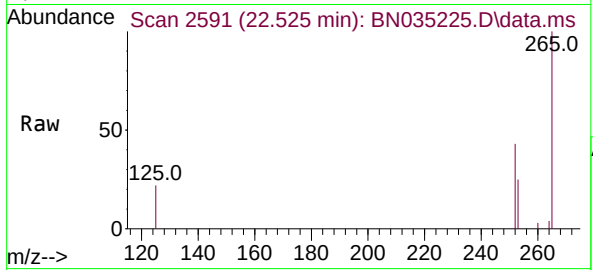
Tgt Ion:	252	Resp:	728
Ion Ratio	Lower	Upper	
252	100		
253	54.2	19.3	28.9
125	47.9	6.2	9.2





#38
Benzo(k)fluoranthene
Concen: 0.076 ng
RT: 22.525 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

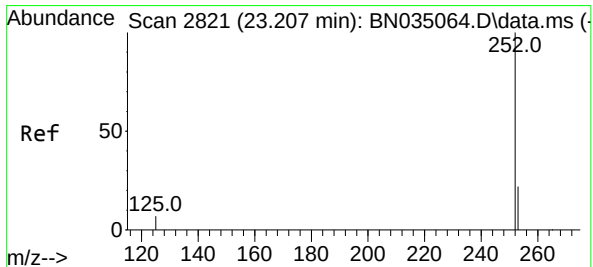
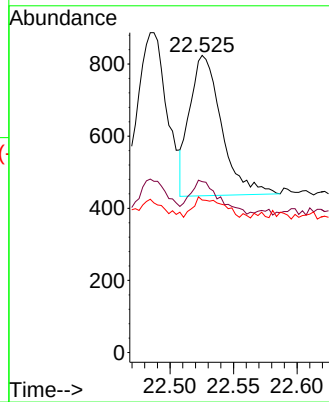
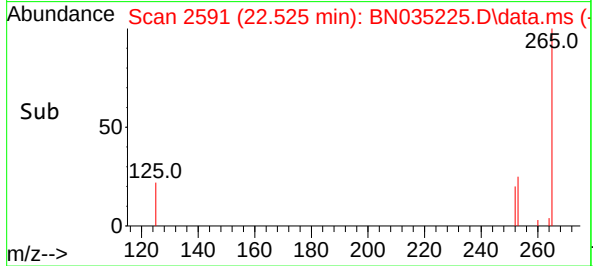
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114



Tgt Ion:252 Resp: 680
Ion Ratio Lower Upper
252 100
253 57.5 19.5 29.3#
125 51.3 6.5 9.7#

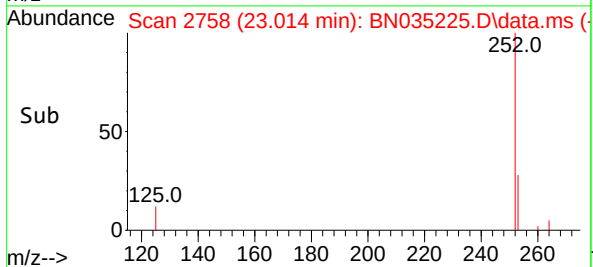
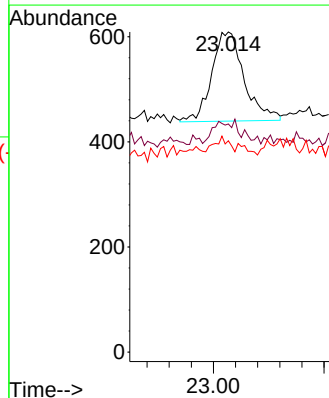
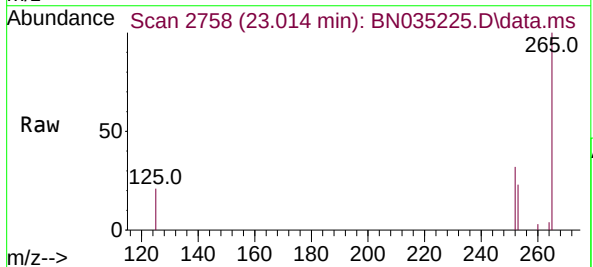
Manual Integrations
APPROVED

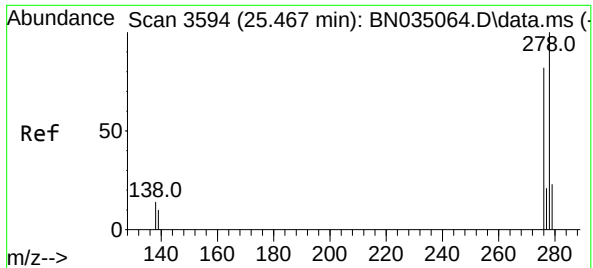
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#39
Benzo(a)pyrene
Concen: 0.044 ng
RT: 23.014 min Scan# 2758
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

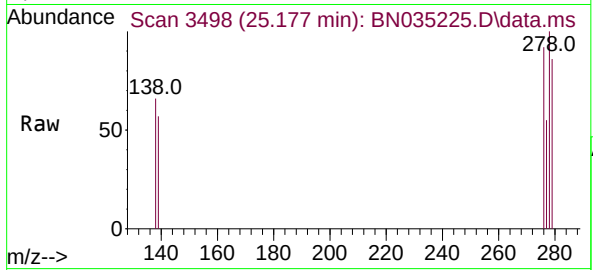
Tgt Ion:252 Resp: 345
Ion Ratio Lower Upper
252 100
253 71.3 20.1 30.1#
125 66.0 7.5 11.3#





#40
Dibenzo(a,h)anthracene
Concen: 0.045 ng
RT: 25.177 min Scan# 34
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

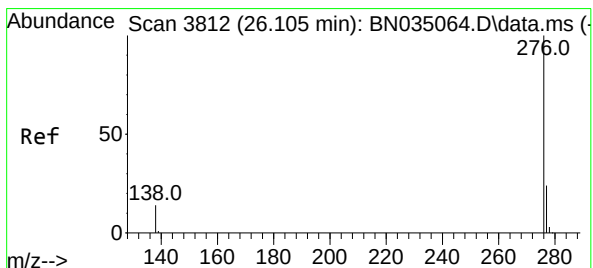
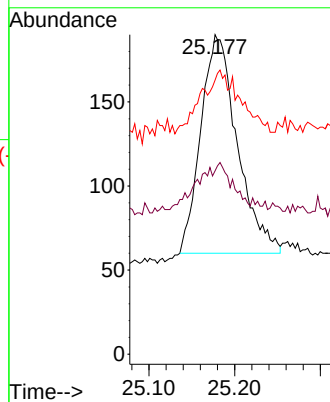
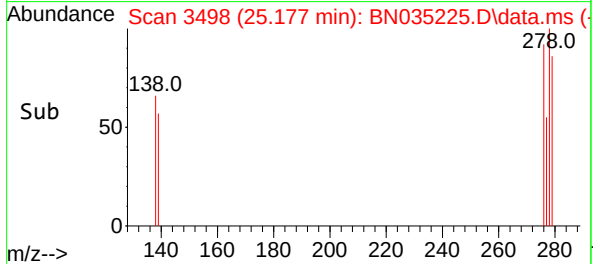
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114



Tgt Ion:278 Resp: 384
Ion Ratio Lower Upper
278 100
139 57.4 9.3 13.9#
279 85.8 19.7 29.5#

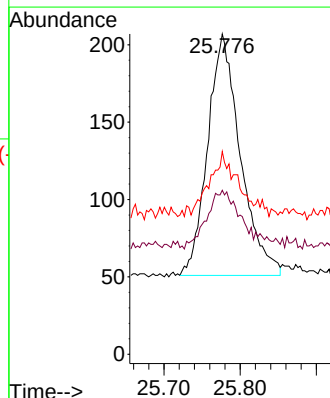
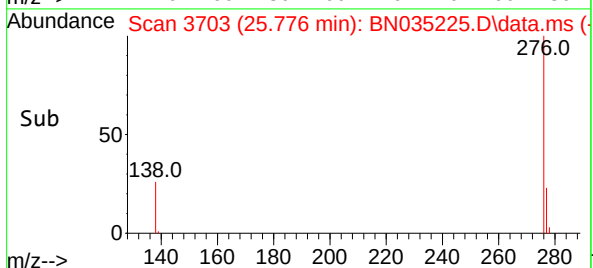
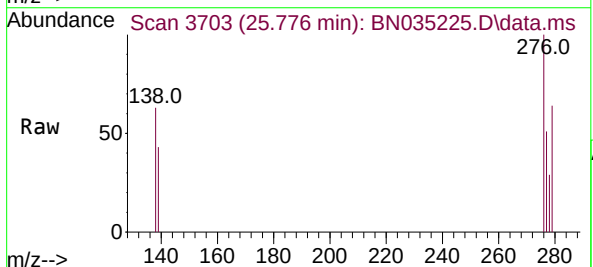
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#41
Benzo(g,h,i)perylene
Concen: 0.052 ng
RT: 25.776 min Scan# 3703
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:276 Resp: 465
Ion Ratio Lower Upper
276 100
277 51.2 19.9 29.9#
138 63.3 11.6 17.4#





CALIBRATION SUMMARY

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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN035062.D 0.2 =BN035063.D 0.4 =BN035064.D 0.8 =BN035065.D 1.6 =BN035066.D 3.2 =BN035067.D 5.0 =BN035068.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	0.410	0.382	0.335	0.371	0.367	0.348	0.329	0.363	7.76
3)	n-Nitrosodimet...	0.366	0.328	0.326	0.360	0.347	0.321	0.322	0.339	5.51
4) S	2-Fluorophenol	1.073	1.039	0.949	1.086	1.034	0.966	0.961	1.015	5.54
5) S	Phenol-d6	1.264	1.279	1.159	1.355	1.318	1.255	1.282	1.273	4.79
6)	bis(2-Chloroet...	0.972	0.949	0.893	1.027	0.995	0.925	0.929	0.956	4.77
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.358	0.338	0.320	0.368	0.356	0.344	0.353	0.348	4.53
9)	Naphthalene	1.088	1.009	0.977	1.116	1.085	1.010	1.027	1.044	4.96
10)	Hexachlorobuta...	0.324	0.305	0.293	0.326	0.315	0.289	0.291	0.306	5.12
11) SURR2	Methylnaphth...	0.694	0.683	0.664	0.762	0.753	0.703	0.731	0.713	5.13
12)	2-Methylnaphth...	0.742	0.748	0.711	0.823	0.815	0.765	0.789	0.770	5.29
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.281	0.262	0.240	0.300	0.299	0.308	0.331	0.289	10.57
15) S	2-Fluorobiphenyl	1.701	1.576	1.460	1.735	1.687	1.599	1.614	1.624	5.73
16)	Acenaphthylene	1.715	1.616	1.488	1.822	1.775	1.756	1.795	1.709	6.93
17)	Acenaphthene	1.129	1.079	1.000	1.202	1.157	1.130	1.146	1.120	5.76
18)	Fluorene	1.704	1.591	1.463	1.755	1.708	1.656	1.659	1.648	5.86
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.068	0.067	0.073	0.087	0.088	0.095	0.105	0.083	17.50
21)	4-Bromophenyl-...	0.256	0.240	0.246	0.272	0.267	0.252	0.252	0.255	4.41
22)	Hexachlorobenzene	0.275	0.259	0.253	0.277	0.273	0.258	0.258	0.264	3.79
23)	Atrazine	0.227	0.227	0.217	0.244	0.238	0.223	0.225	0.229	3.95
24)	Pentachlorophenol	0.106	0.101	0.104	0.130	0.130	0.141	0.154	0.124	16.69
25)	Phenanthrene	1.069	1.013	1.004	1.115	1.096	1.034	1.036	1.053	3.97
26)	Anthracene	0.917	0.904	0.920	1.024	1.016	0.986	1.001	0.967	5.32
27) SURR	Fluoranthene-d10	1.196	1.178	1.169	1.288	1.284	1.222	1.240	1.225	3.91
28)	Fluoranthene	1.396	1.376	1.386	1.543	1.527	1.453	1.453	1.448	4.63
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.339	1.290	1.288	1.424	1.367	1.301	1.317	1.332	3.70
31) S	Terphenyl-d14	0.838	0.819	0.810	0.894	0.867	0.817	0.831	0.839	3.63
32)	Benzo(a)anthra...	1.421	1.368	1.328	1.464	1.416	1.355	1.396	1.393	3.31
33)	Chrysene	1.409	1.366	1.332	1.479	1.420	1.331	1.321	1.380	4.27
34)	Bis(2-ethylhex...	0.809	0.753	0.647	0.768	0.702	0.693	0.742	0.731	7.38
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN111324.M

36)	Indeno(1,2,3-c...	1.609	1.515	1.522	1.730	1.659	1.550	1.585	1.596	4.88
37)	Benzo(b)fluora...	1.326	1.272	1.279	1.439	1.418	1.327	1.359	1.346	4.77
38)	Benzo(k)fluora...	1.342	1.288	1.287	1.418	1.410	1.323	1.358	1.347	3.94
39) C	Benzo(a)pyrene	1.172	1.134	1.123	1.247	1.240	1.167	1.207	1.184	4.12
40)	Dibenzo(a,h)an...	1.248	1.195	1.210	1.375	1.322	1.235	1.265	1.264	5.06
41)	Benzo(g,h,i)pe...	1.380	1.288	1.286	1.452	1.386	1.294	1.328	1.345	4.71

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035062.D
 Acq On : 13 Nov 2024 12:40
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Nov 13 16:42:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

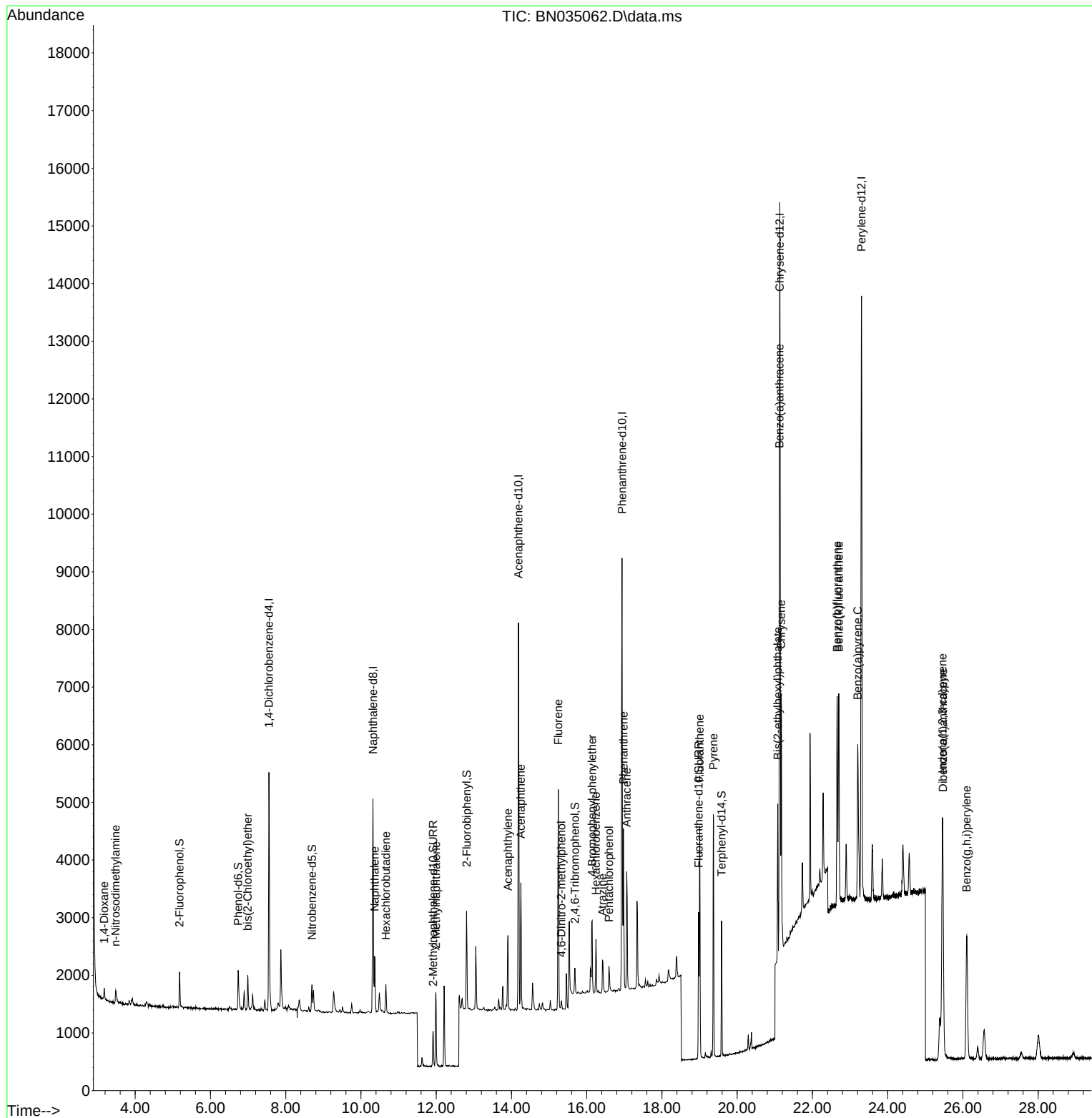
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	1991	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	4930	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	3629	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	10187	0.400	ng	0.00
29) Chrysene-d12	21.131	240	11121	0.400	ng	# 0.00
35) Perylene-d12	23.304	264	13104	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	534	0.106	ng	0.00
5) Phenol-d6	6.737	99	629	0.099	ng	0.00
8) Nitrobenzene-d5	8.696	82	441	0.103	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	855	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	255	0.097	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	1543	0.105	ng	0.00
27) Fluoranthene-d10	18.976	212	3046	0.098	ng	0.00
31) Terphenyl-d14	19.584	244	2331	0.100	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	204	0.113	ng	93
3) n-Nitrosodimethylamine	3.480	42	182	0.108	ng	# 90
6) bis(2-Chloroethyl)ether	6.990	93	484	0.102	ng	99
9) Naphthalene	10.362	128	1341	0.104	ng	# 89
10) Hexachlorobutadiene	10.660	225	399	0.106	ng	# 99
12) 2-Methylnaphthalene	11.992	142	914	0.096	ng	96
16) Acenaphthylene	13.908	152	1556	0.100	ng	99
17) Acenaphthene	14.250	154	1024	0.101	ng	98
18) Fluorene	15.245	166	1546	0.103	ng	99
20) 4,6-Dinitro-2-methylph...	15.330	198	172	0.081	ng	# 1
21) 4-Bromophenyl-phenylether	16.145	248	651	0.100	ng	97
22) Hexachlorobenzene	16.244	284	701	0.104	ng	98
23) Atrazine	16.418	200	577	0.099	ng	# 91
24) Pentachlorophenol	16.592	266	269	0.085	ng	94
25) Phenanthrene	16.977	178	2723	0.102	ng	100
26) Anthracene	17.063	178	2335	0.095	ng	98
28) Fluoranthene	19.003	202	3554	0.096	ng	100
30) Pyrene	19.366	202	3722	0.101	ng	98
32) Benzo(a)anthracene	21.122	228	3952	0.102	ng	97
33) Chrysene	21.167	228	3918	0.102	ng	96
34) Bis(2-ethylhexyl)phtha...	21.077	149	2250	0.112	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.455	276	5271	0.101	ng	96
37) Benzo(b)fluoranthene	22.657	252	4345	0.099	ng	# 82
38) Benzo(k)fluoranthene	22.701	252	4395	0.100	ng	# 78
39) Benzo(a)pyrene	23.204	252	3841	0.099	ng	# 77
40) Dibenzo(a,h)anthracene	25.467	278	4089	0.099	ng	# 85
41) Benzo(g,h,i)perylene	26.099	276	4521	0.103	ng	# 94

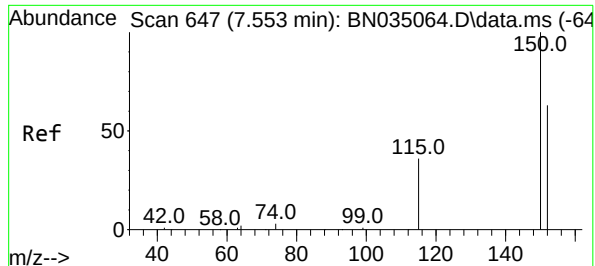
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035062.D
Acq On : 13 Nov 2024 12:40
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 13 16:42:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

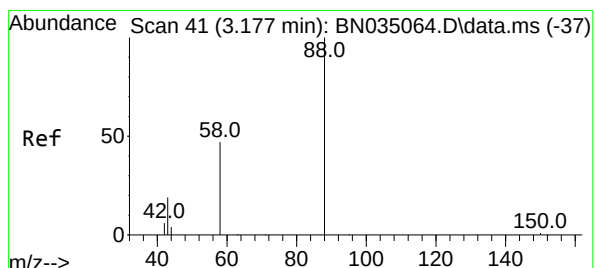
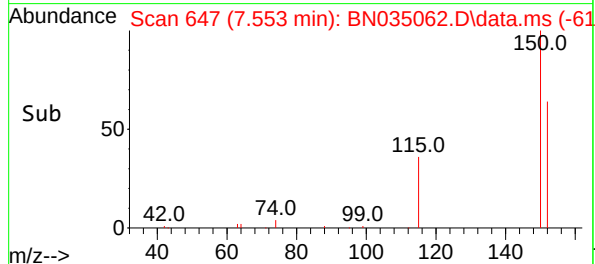
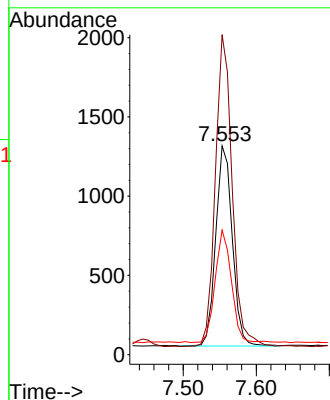
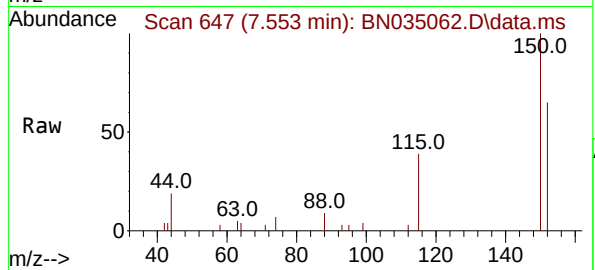




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

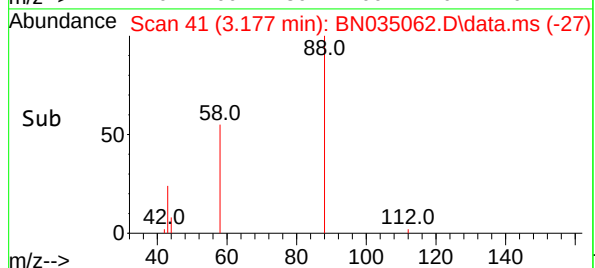
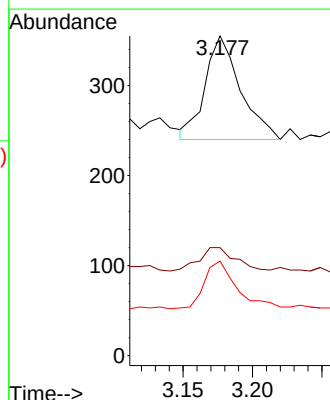
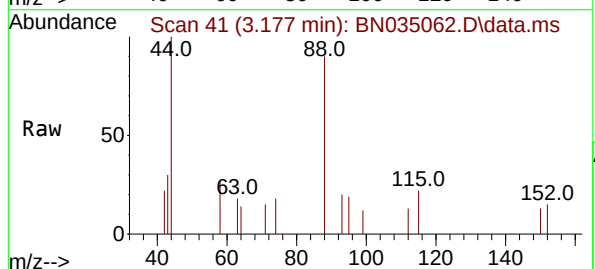
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

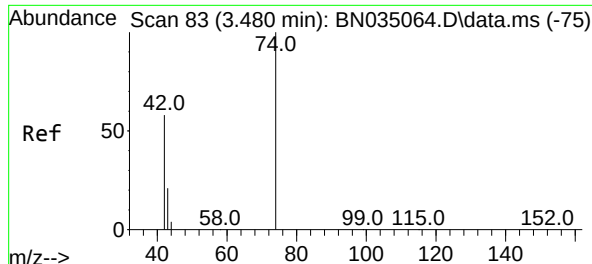
Tgt Ion:152 Resp: 1991
Ion Ratio Lower Upper
152 100
150 153.3 124.5 186.7
115 59.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.113 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 88 Resp: 204
Ion Ratio Lower Upper
88 100
43 23.0 16.9 25.3
58 42.6 39.0 58.4

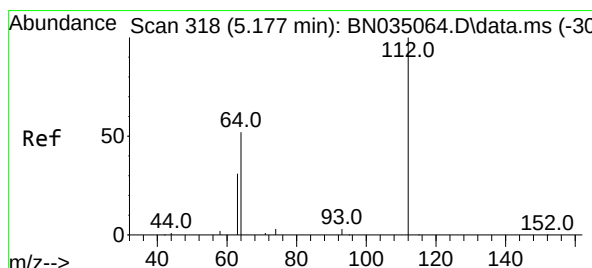
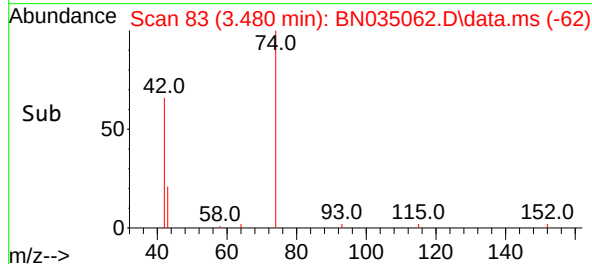
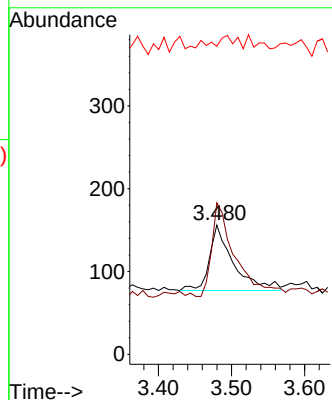
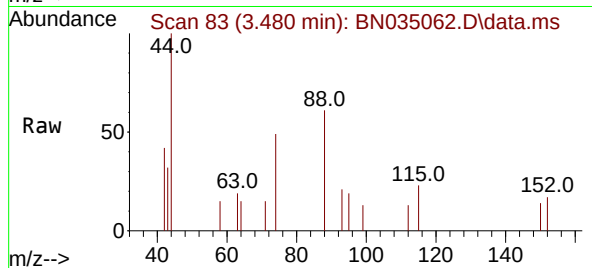




#3
n-Nitrosodimethylamine
Concen: 0.108 ng
RT: 3.480 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

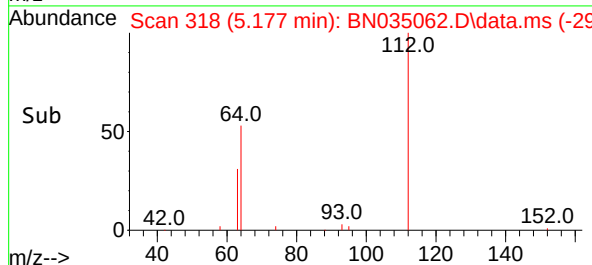
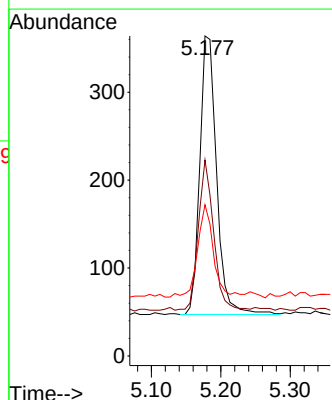
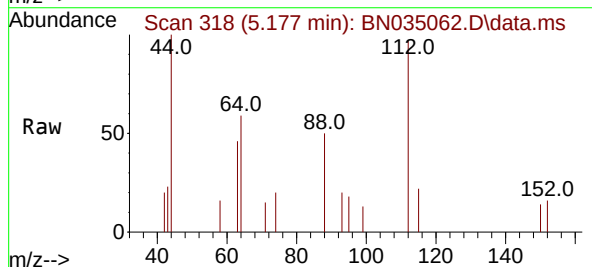
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

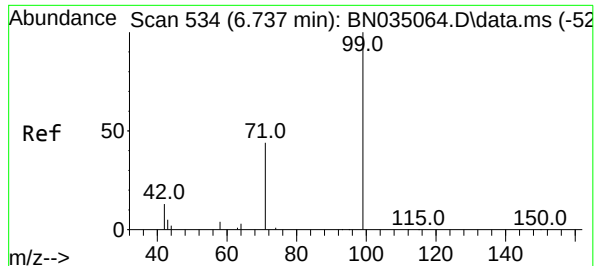
Tgt Ion: 42 Resp: 182
Ion Ratio Lower Upper
42 100
74 139.0 120.8 181.2
44 12.6 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 112 Resp: 534
Ion Ratio Lower Upper
112 100
64 48.9 39.7 59.5
63 31.1 23.0 34.4

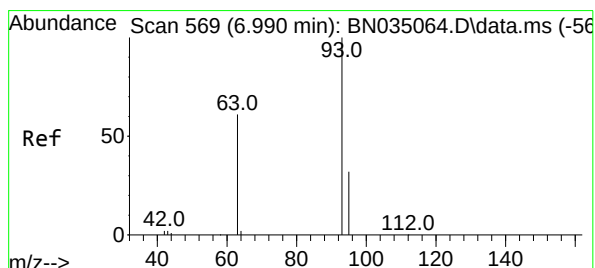
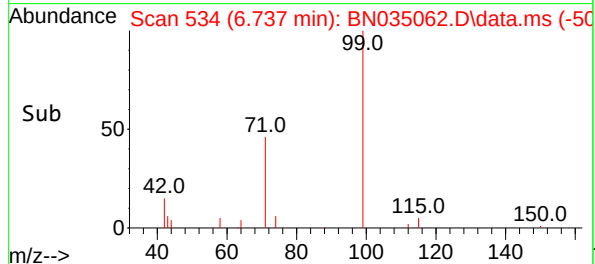
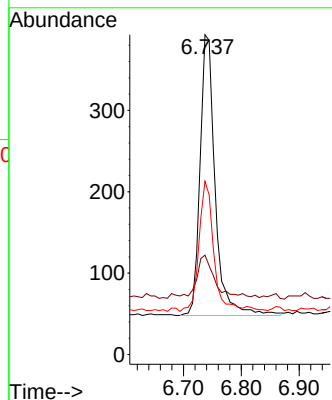
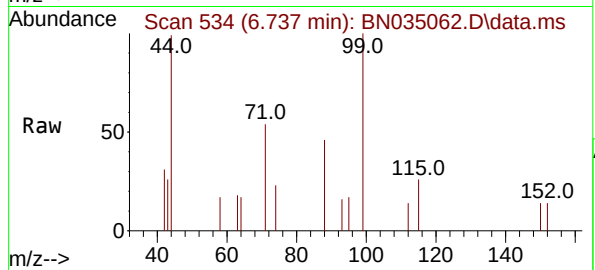




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

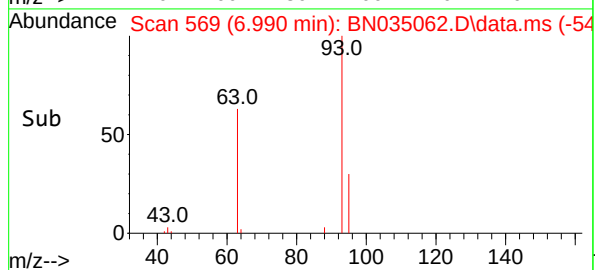
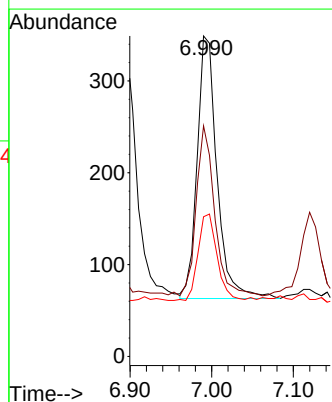
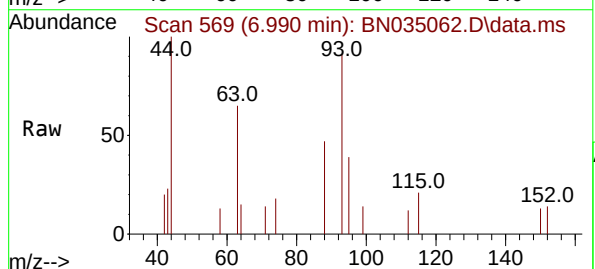
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

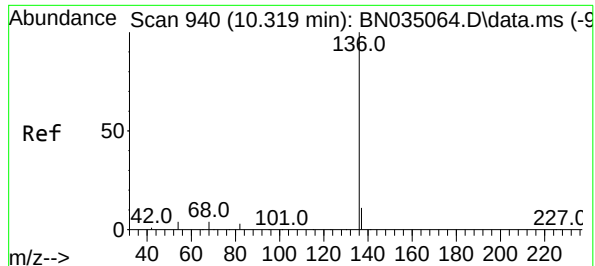
Tgt Ion: 99 Resp: 629
Ion Ratio Lower Upper
99 100
42 19.6 11.4 17.0#
71 44.5 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 93 Resp: 484
Ion Ratio Lower Upper
93 100
63 60.1 47.4 71.2
95 31.8 26.2 39.4

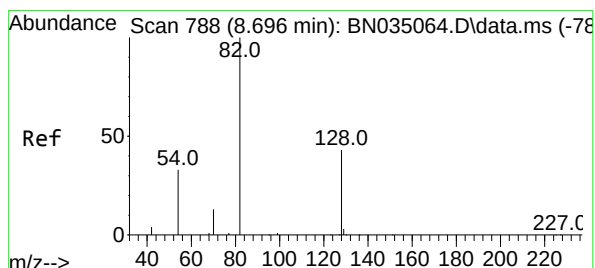
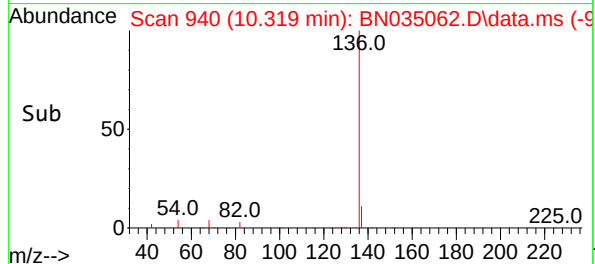
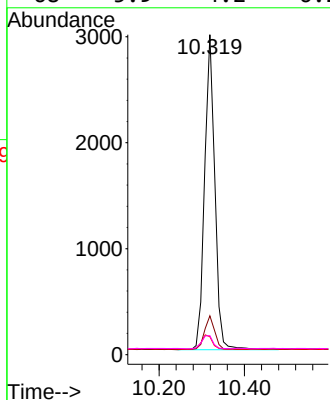
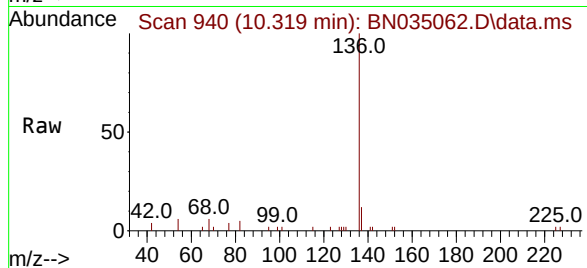




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

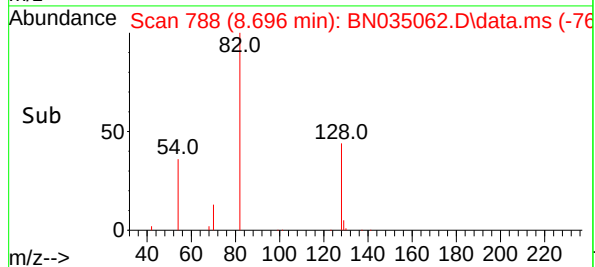
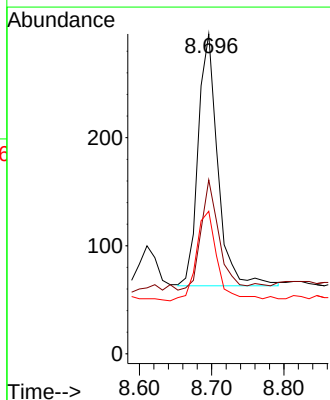
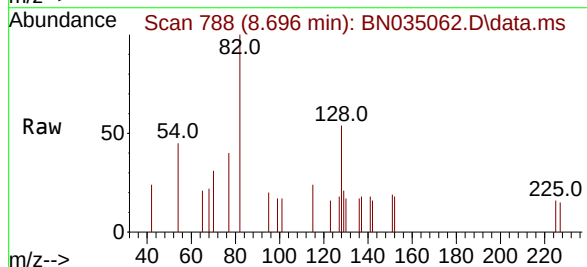
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

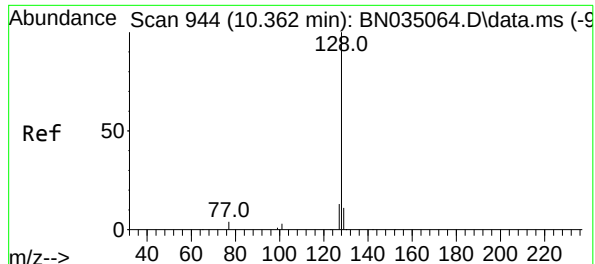
Tgt Ion:	136	Resp:	4930
Ion Ratio	Lower	Upper	
136	100		
137	12.2	9.8	14.8
54	5.6	4.0	6.0
68	5.9	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.103 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:	82	Resp:	441
Ion Ratio	Lower	Upper	
82	100		
128	54.4	36.5	54.7
54	44.6	28.7	43.1

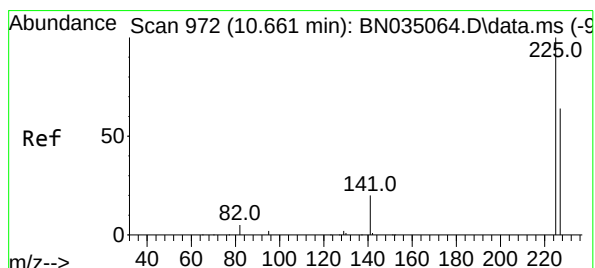
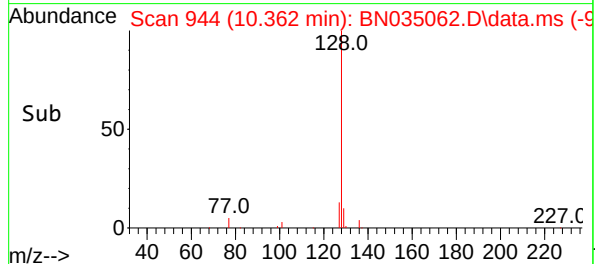
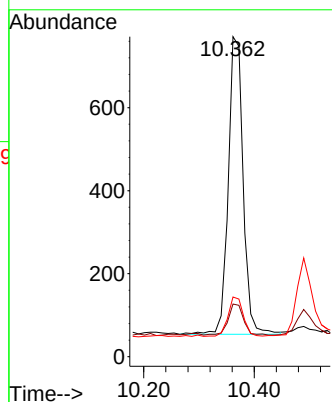
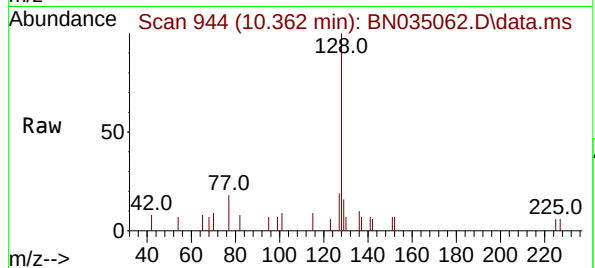




#9
Naphthalene
Concen: 0.104 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

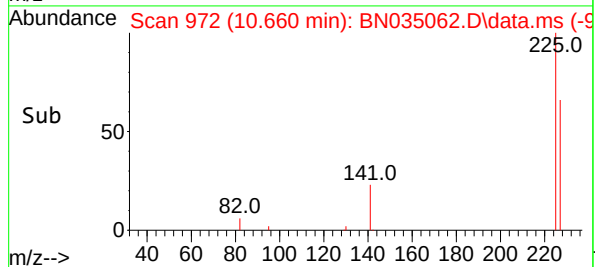
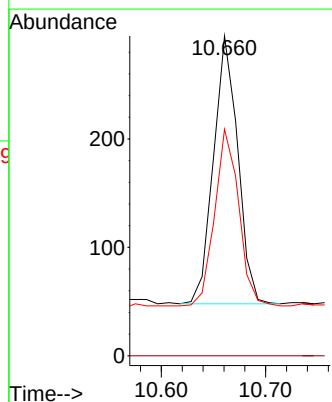
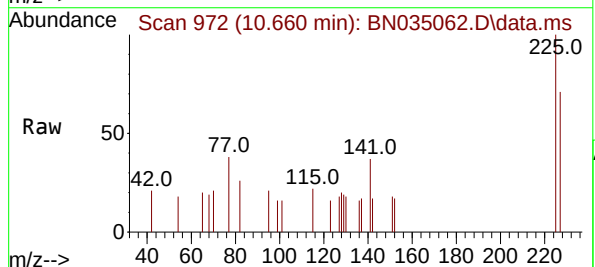
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

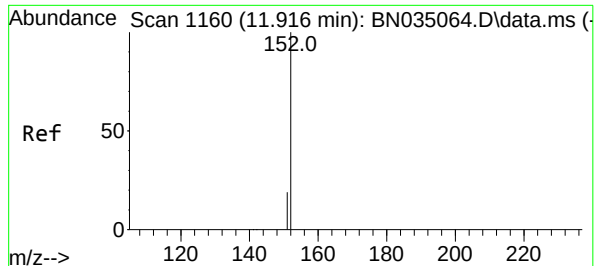
Tgt Ion:128 Resp: 1341
Ion Ratio Lower Upper
128 100
129 16.5 9.6 14.4#
127 18.7 11.6 17.4#



#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:225 Resp: 399
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.4 51.5 77.3

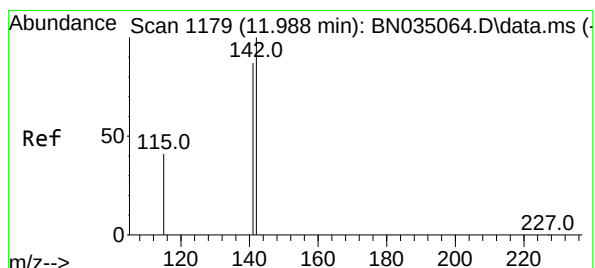
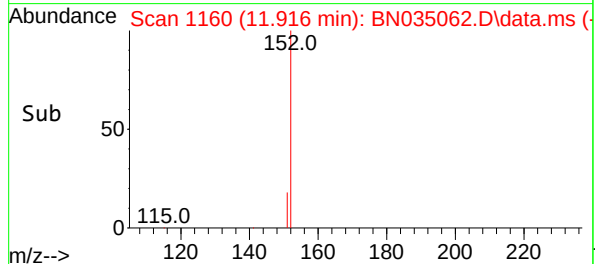
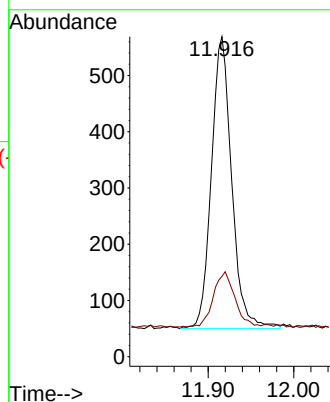
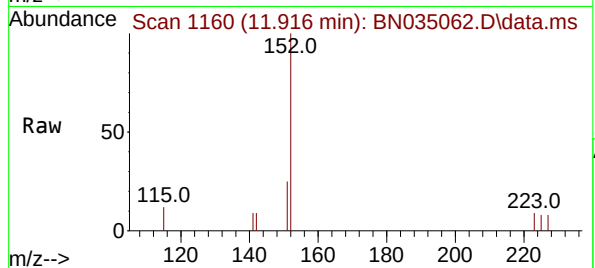




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 11.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

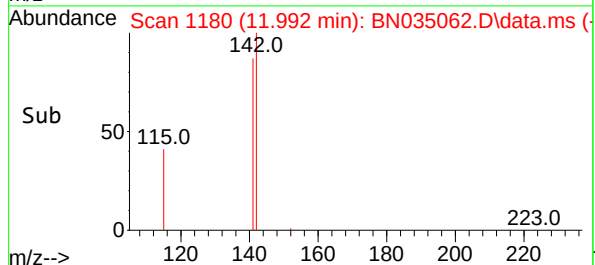
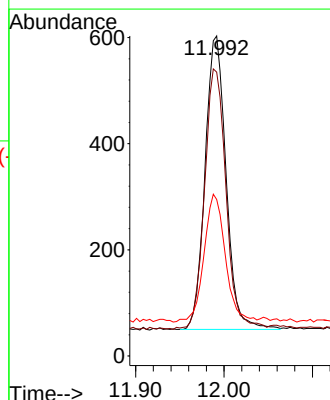
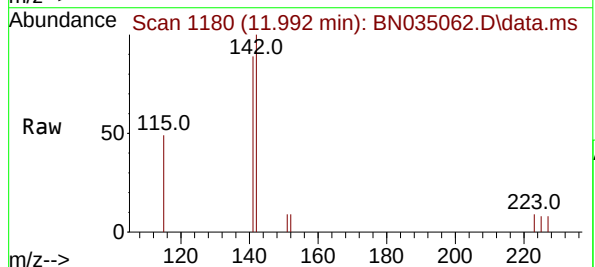
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

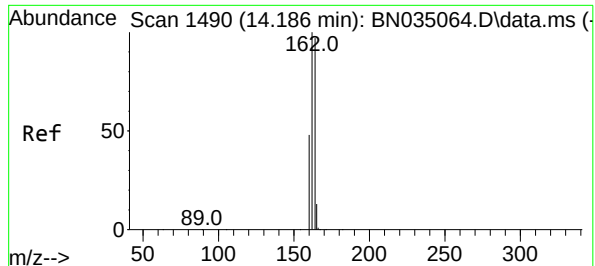
Tgt Ion:152 Resp: 855
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.004 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:142 Resp: 914
Ion Ratio Lower Upper
142 100
141 88.7 70.1 105.1
115 48.9 34.4 51.6

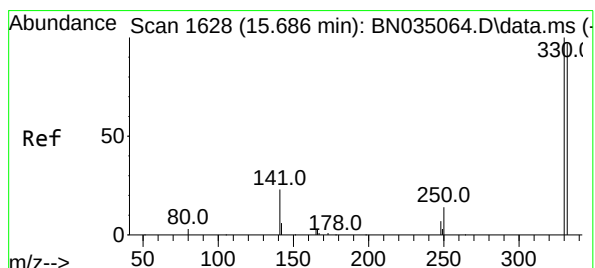
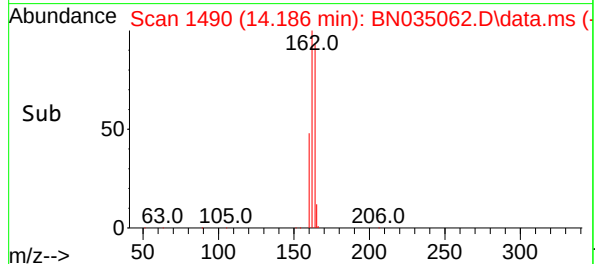
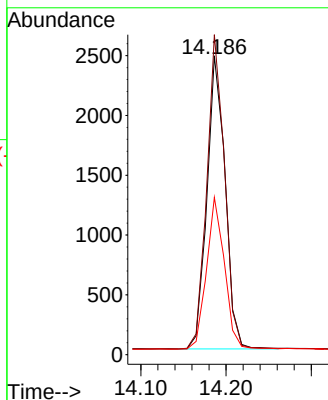
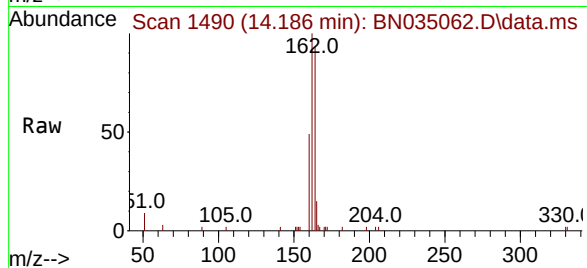




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

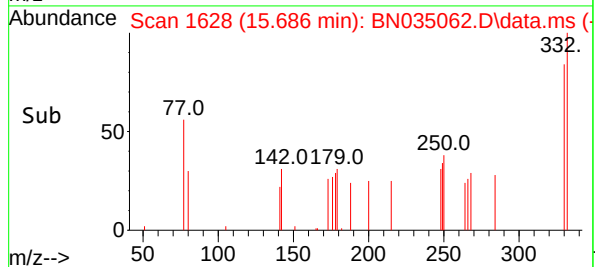
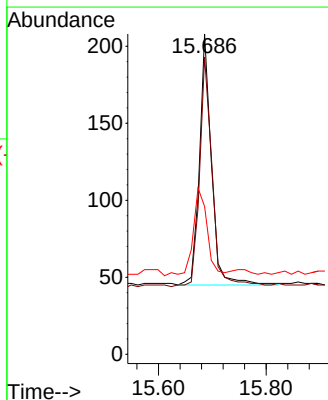
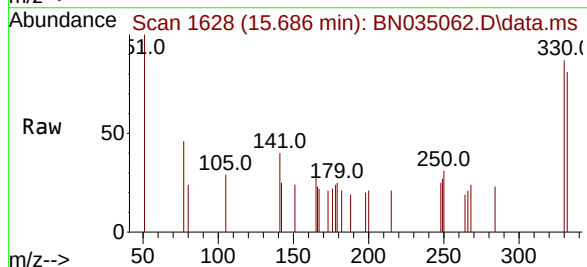
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

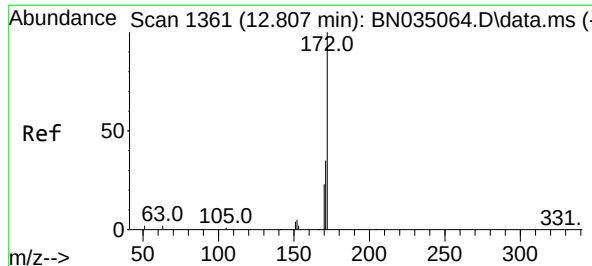
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.1	82.2	123.2
160	52.6	40.2	60.4



#14
2,4,6-Tribromophenol
Concen: 0.097 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.6	76.9	115.3
141	37.6	29.6	44.4





#15

2-Fluorobiphenyl

Concen: 0.105 ng

RT: 12.807 min Scan# 1361

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

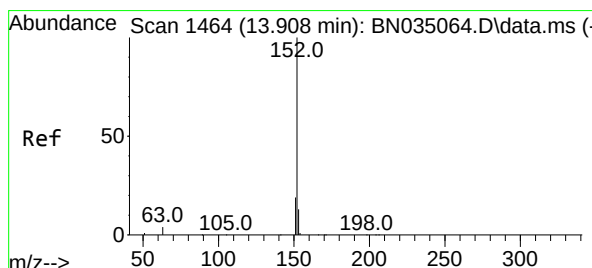
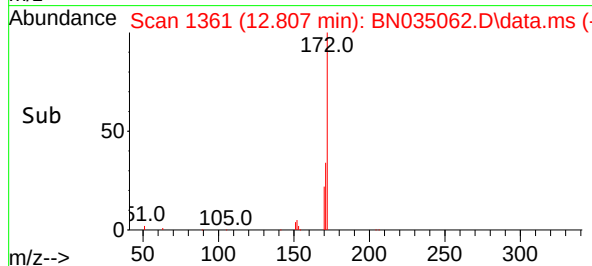
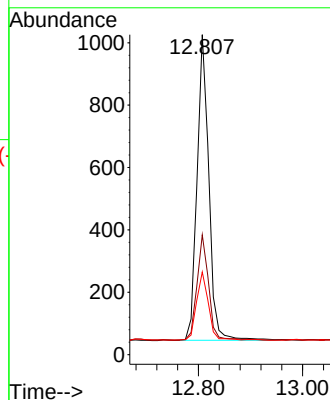
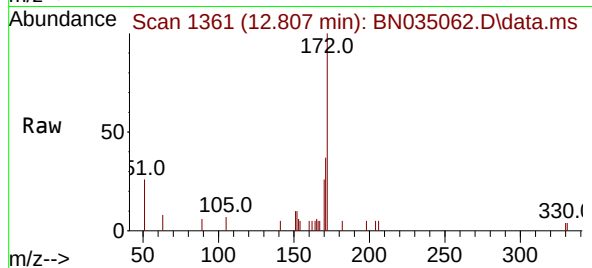
Tgt Ion:172 Resp: 1543

Ion Ratio Lower Upper

172 100

171 37.4 28.2 42.4

170 25.8 19.0 28.6



#16

Acenaphthylene

Concen: 0.100 ng

RT: 13.908 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

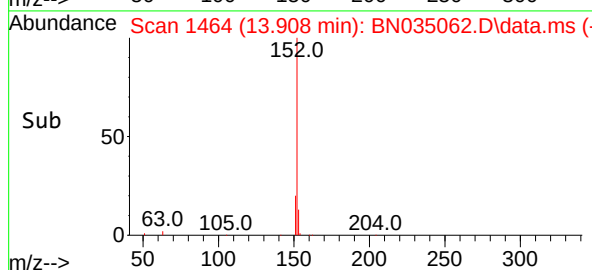
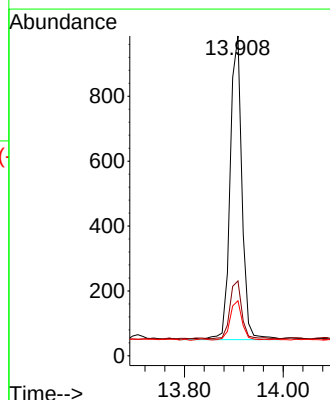
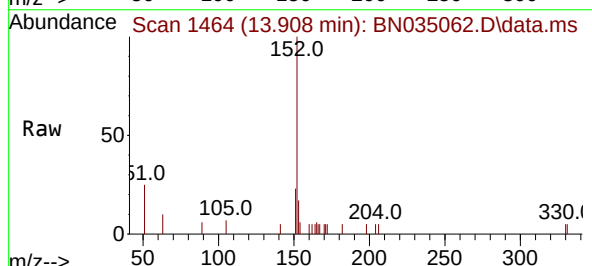
Tgt Ion:152 Resp: 1556

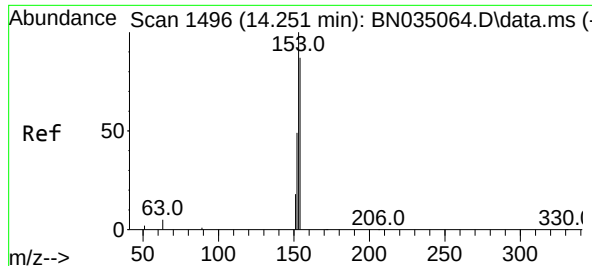
Ion Ratio Lower Upper

152 100

151 19.2 15.8 23.8

153 13.2 10.2 15.4

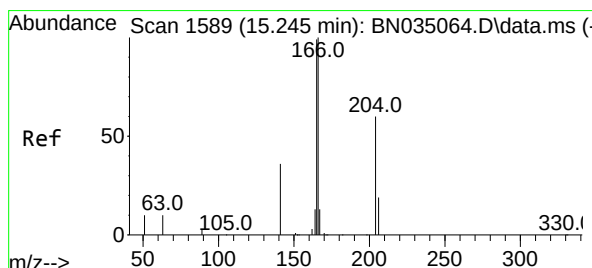
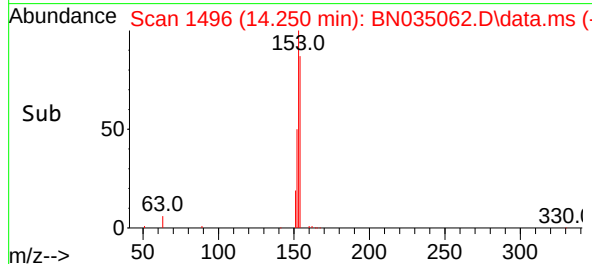
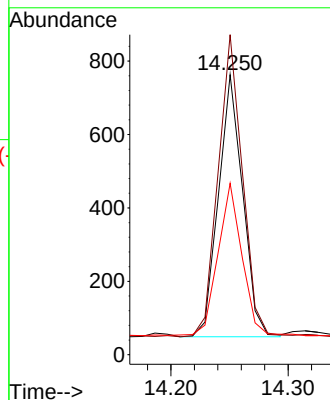
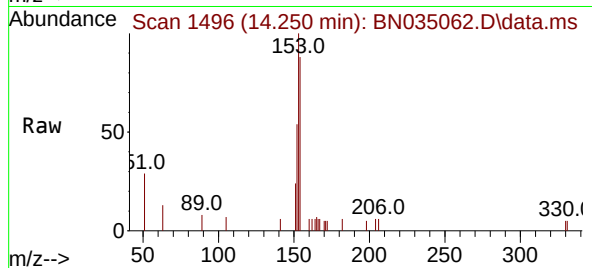




#17
Acenaphthene
Concen: 0.101 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

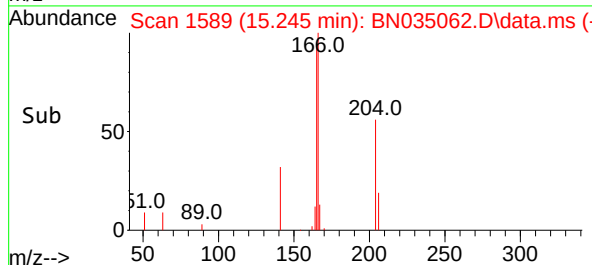
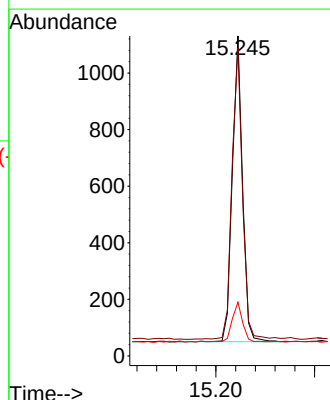
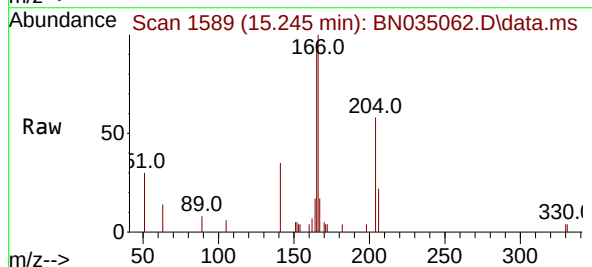
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

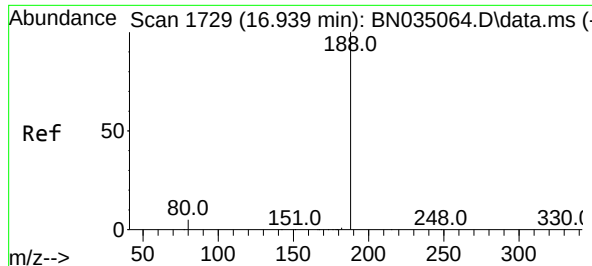
Tgt Ion:154 Resp: 1024
Ion Ratio Lower Upper
154 100
153 116.6 91.6 137.4
152 57.9 45.8 68.6



#18
Fluorene
Concen: 0.103 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:166 Resp: 1546
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 12.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

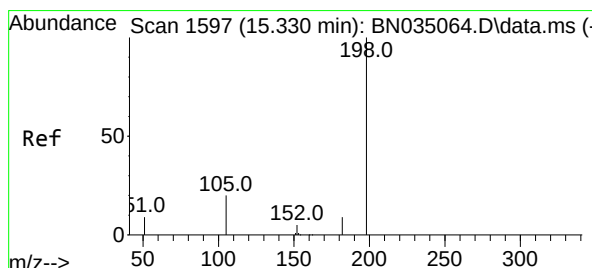
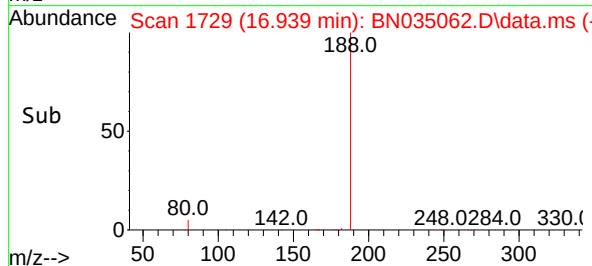
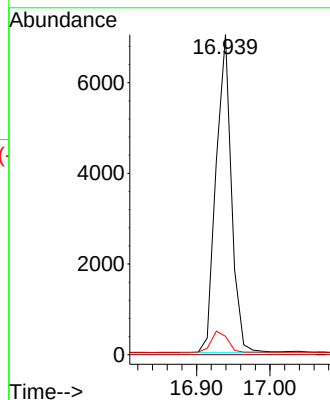
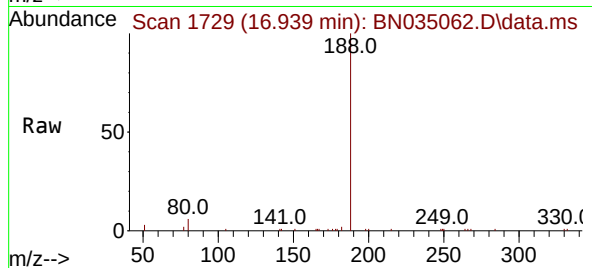
Tgt Ion:188 Resp: 10187

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.7 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.081 ng

RT: 15.330 min Scan# 1597

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

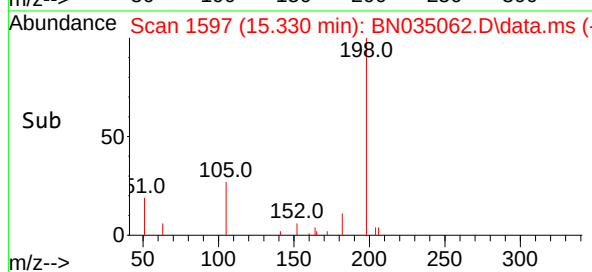
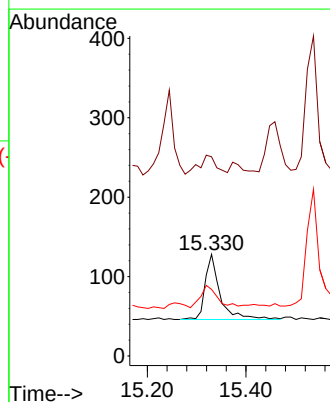
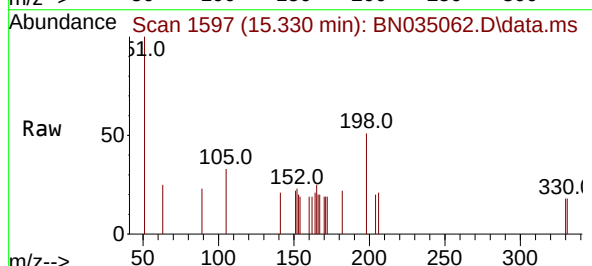
Tgt Ion:198 Resp: 172

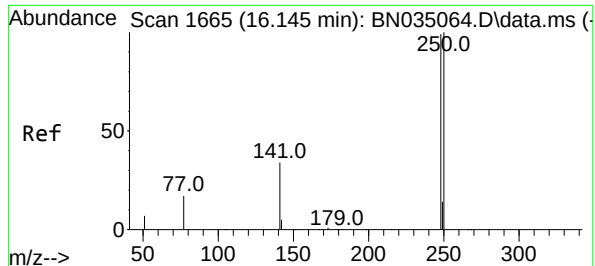
Ion Ratio Lower Upper

198 100

51 196.1 29.9 44.9#

105 65.6 23.7 35.5#

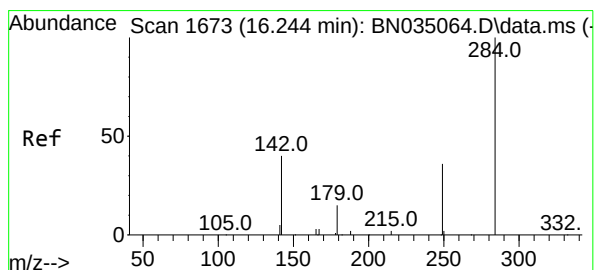
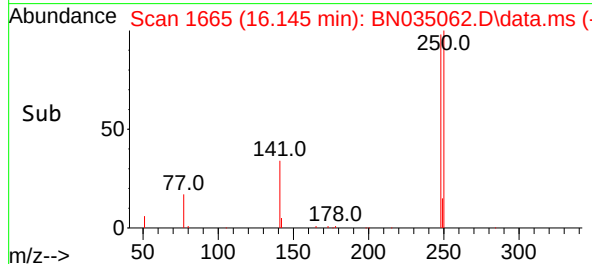
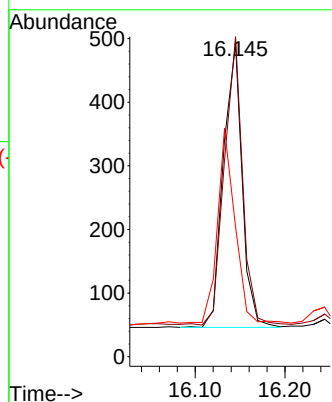
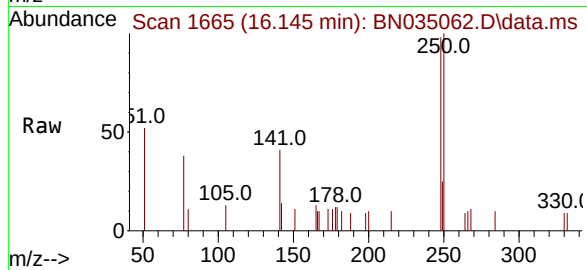




#21
4-Bromophenyl-phenylether
Concen: 0.100 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

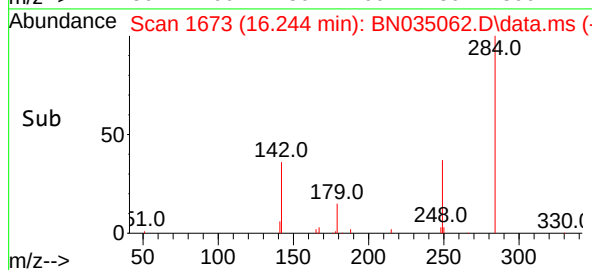
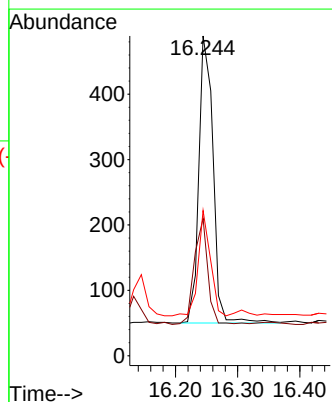
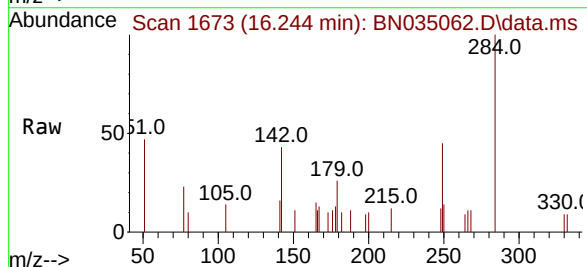
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

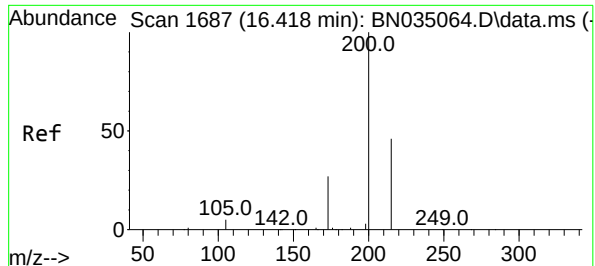
Tgt Ion:	248	Resp:	651
Ion Ratio	Lower	Upper	
248	100		
250	102.4	81.2	121.8
141	41.5	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.104 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:	284	Resp:	701
Ion Ratio	Lower	Upper	
284	100		
142	34.5	28.2	42.4
249	31.4	26.2	39.2





#23

Atrazine

Concen: 0.099 ng

RT: 16.418 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

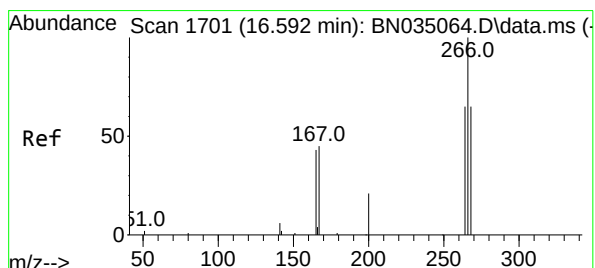
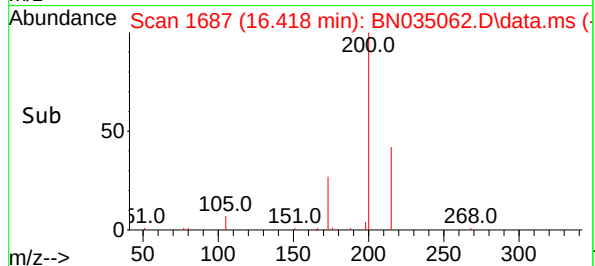
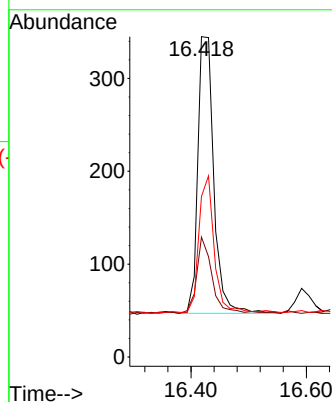
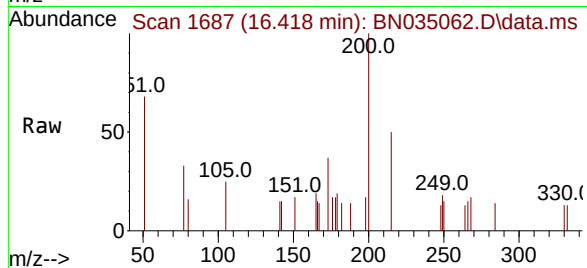
Tgt Ion:200 Resp: 577

Ion Ratio Lower Upper

200 100

173 37.4 22.6 33.8#

215 50.1 37.8 56.6



#24

Pentachlorophenol

Concen: 0.085 ng

RT: 16.592 min Scan# 1701

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

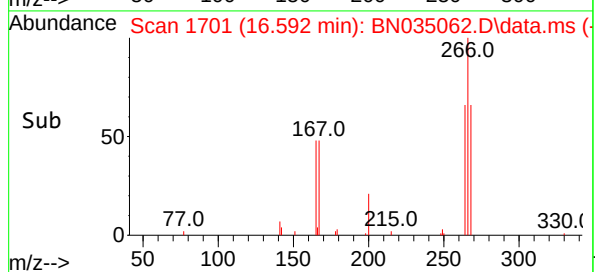
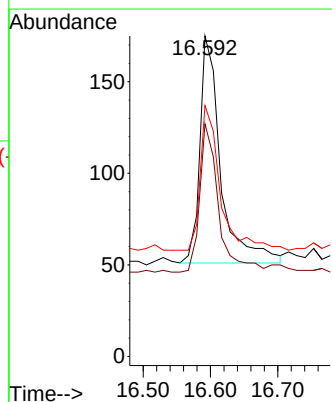
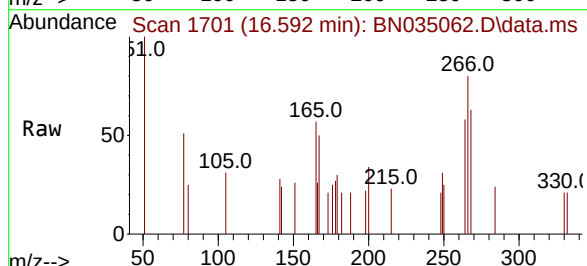
Tgt Ion:266 Resp: 269

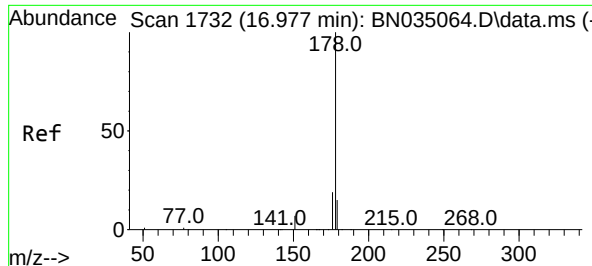
Ion Ratio Lower Upper

266 100

264 58.4 49.4 74.0

268 60.2 52.6 79.0

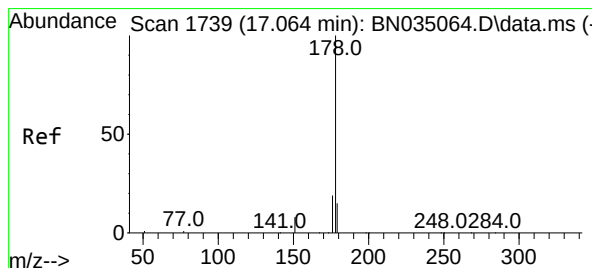
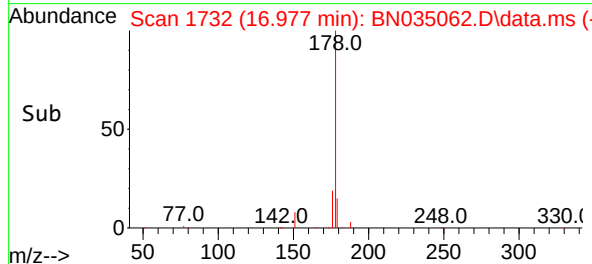
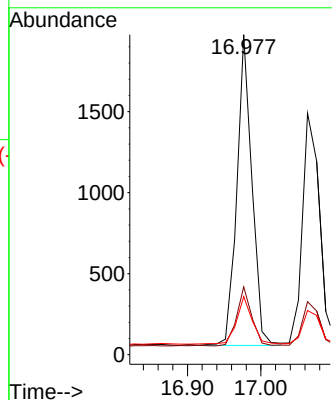
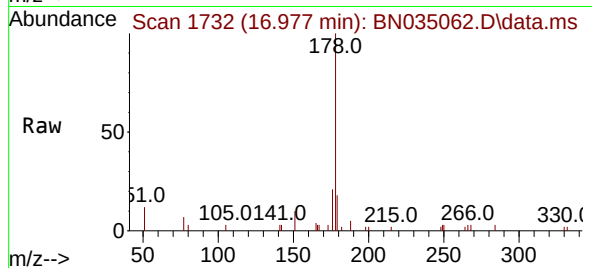




#25
Phenanthrene
Concen: 0.102 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

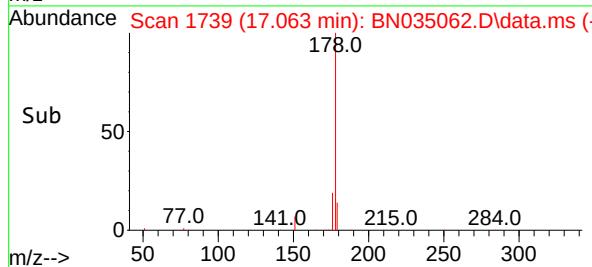
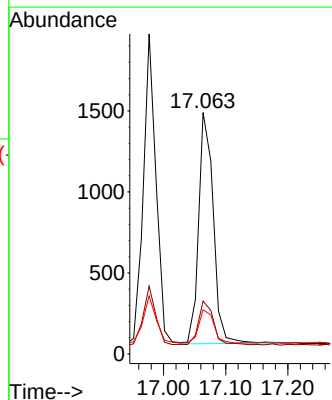
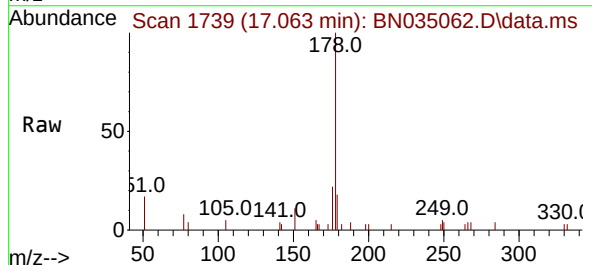
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

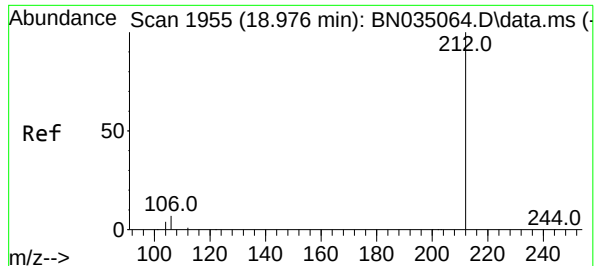
Tgt Ion:178 Resp: 2723
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.9 12.6 18.8



#26
Anthracene
Concen: 0.095 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:178 Resp: 2335
Ion Ratio Lower Upper
178 100
176 19.6 14.6 22.0
179 14.8 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.098 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

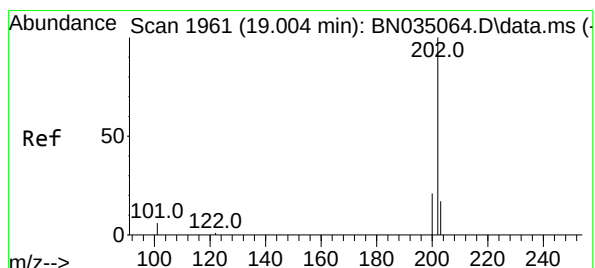
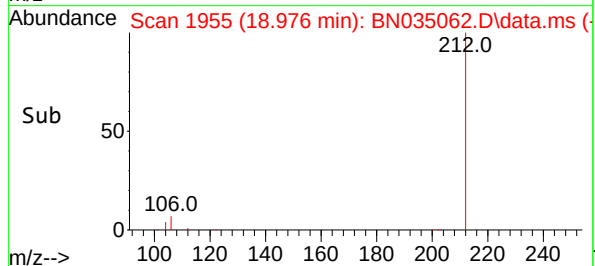
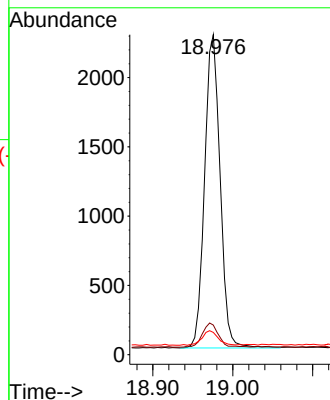
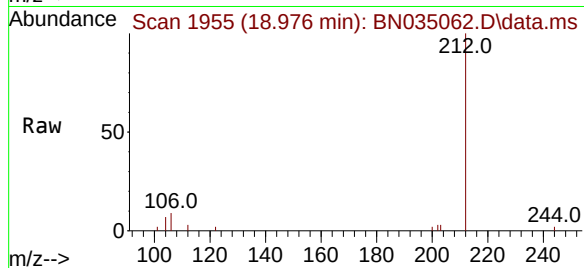
Tgt Ion:212 Resp: 3046

Ion Ratio Lower Upper

212 100

106 7.8 6.0 9.0

104 4.8 3.5 5.3



#28

Fluoranthene

Concen: 0.096 ng

RT: 19.003 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

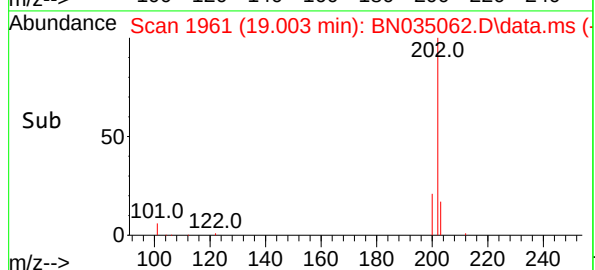
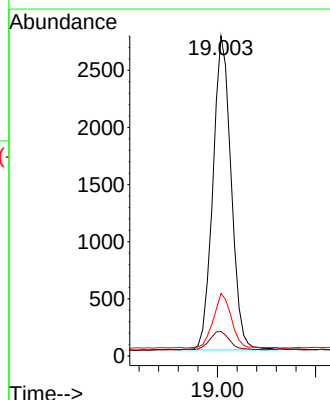
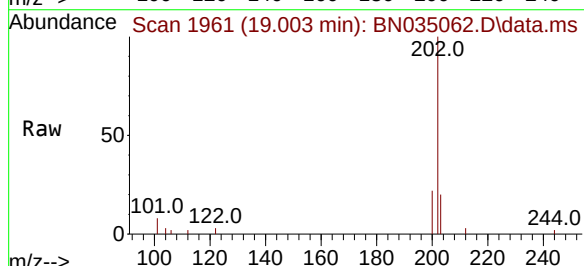
Tgt Ion:202 Resp: 3554

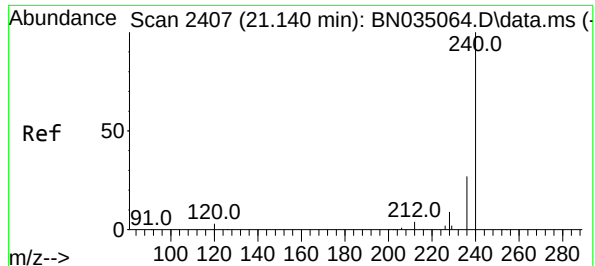
Ion Ratio Lower Upper

202 100

101 6.7 5.2 7.8

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.131 min Scan# 2406

Delta R.T. -0.009 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

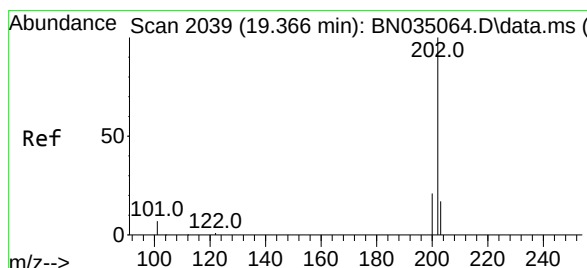
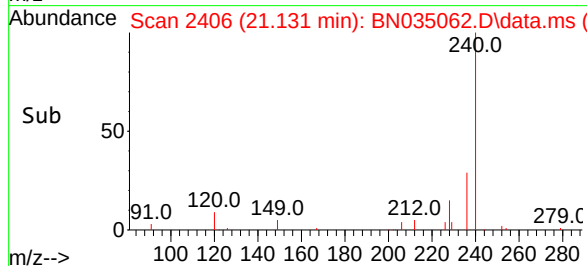
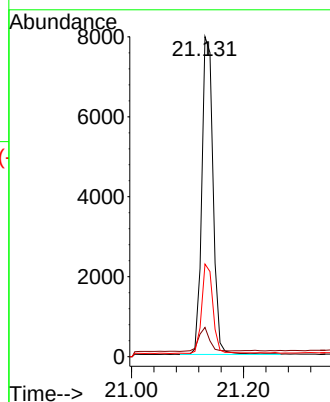
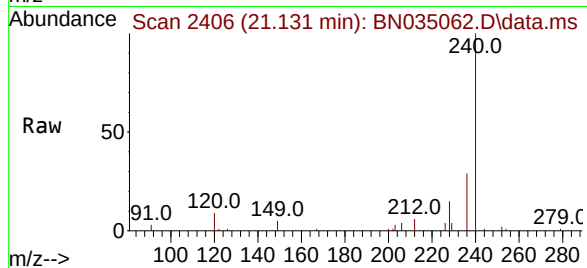
Tgt Ion:240 Resp: 11121

Ion Ratio Lower Upper

240 100

120 9.1 3.8 5.6#

236 28.9 22.2 33.2



#30

Pyrene

Concen: 0.101 ng

RT: 19.366 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

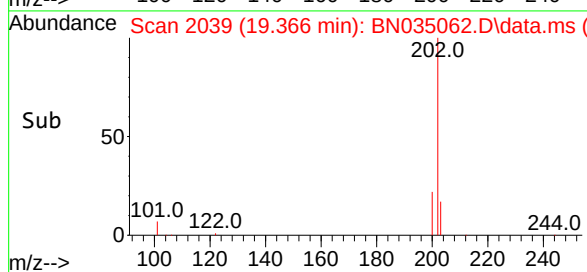
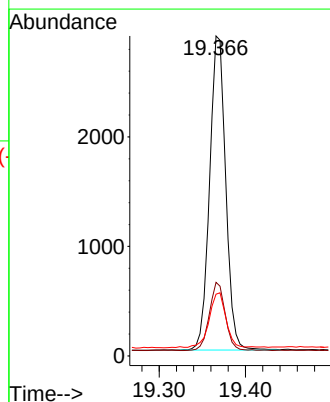
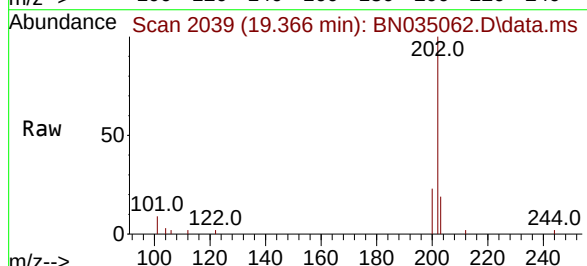
Tgt Ion:202 Resp: 3722

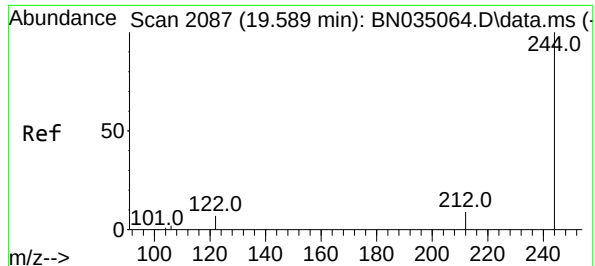
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 18.8 14.2 21.4

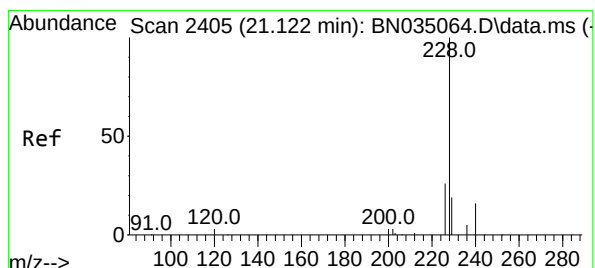
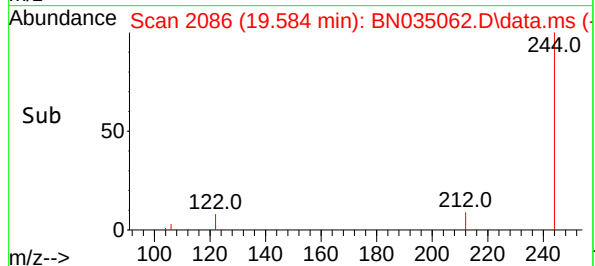
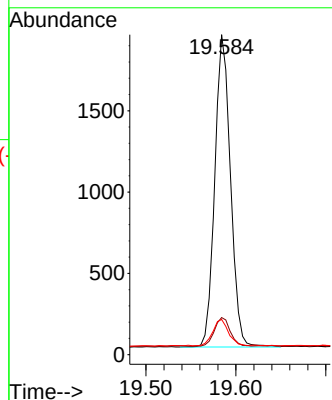
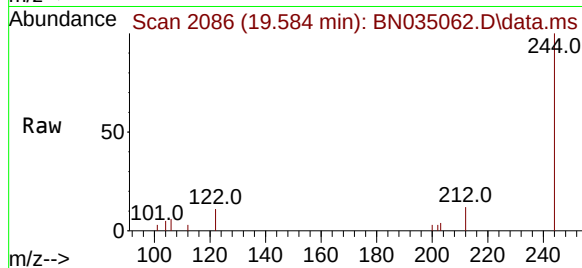




#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.584 min Scan# 2087
Delta R.T. -0.005 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

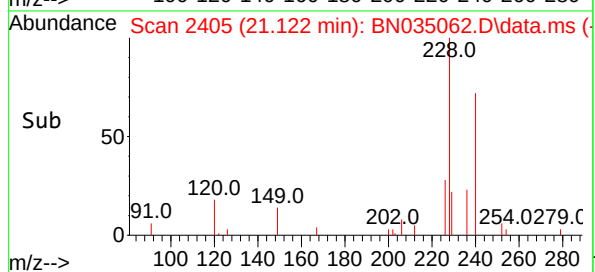
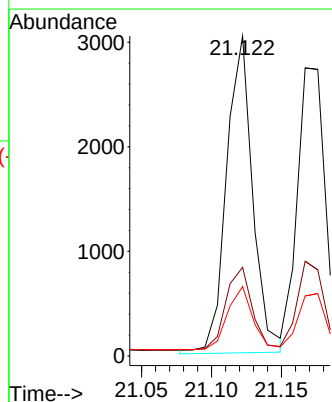
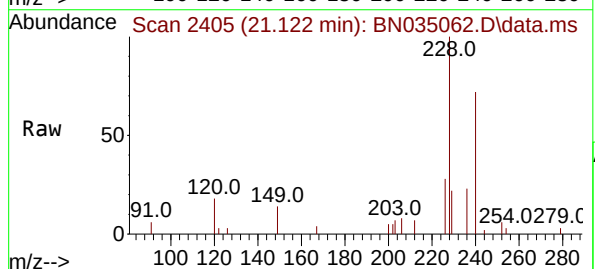
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

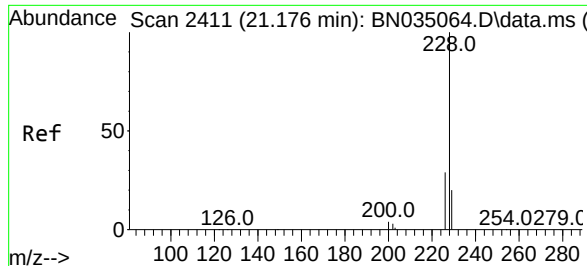
Tgt Ion:244 Resp: 2331
Ion Ratio Lower Upper
244 100
212 11.6 7.6 11.4#
122 11.0 6.1 9.1#



#32
Benzo(a)anthracene
Concen: 0.102 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:228 Resp: 3952
Ion Ratio Lower Upper
228 100
226 27.7 21.4 32.0
229 21.7 15.7 23.5





#33

Chrysene

Concen: 0.102 ng

RT: 21.167 min Scan# 2411

Delta R.T. -0.009 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

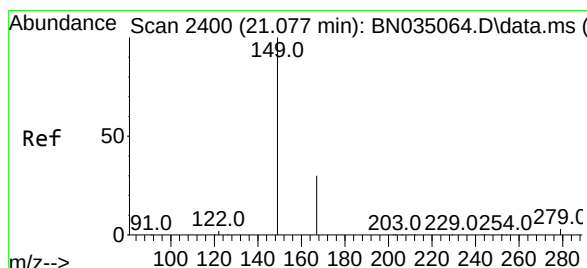
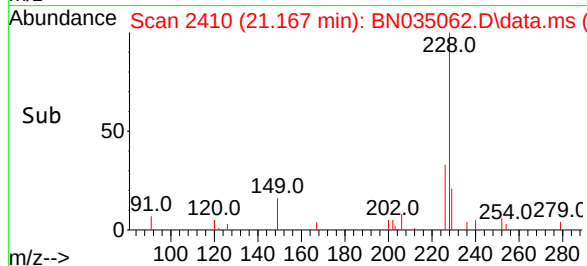
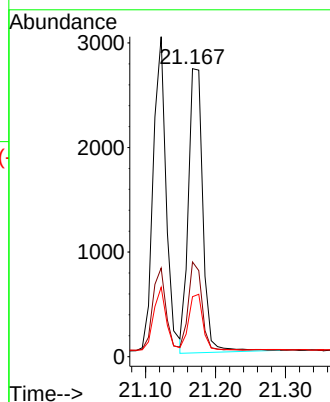
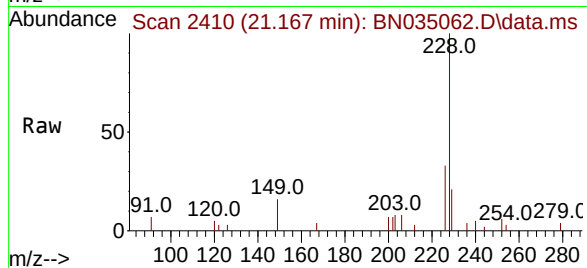
Tgt Ion:228 Resp: 3918

Ion Ratio Lower Upper

228 100

226 32.9 23.7 35.5

229 20.8 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.112 ng

RT: 21.077 min Scan# 2400

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

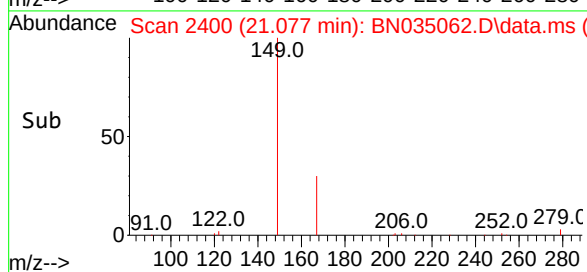
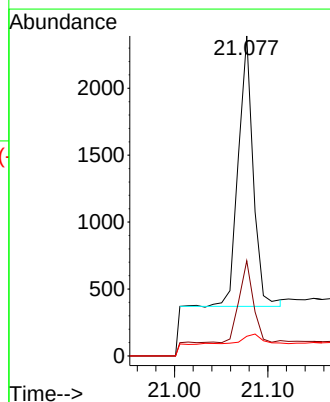
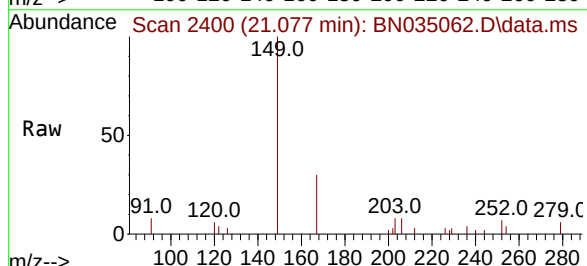
Tgt Ion:149 Resp: 2250

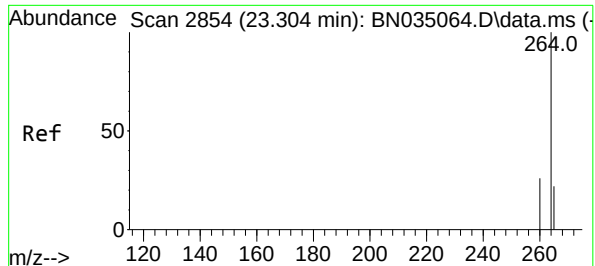
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

279 5.8 3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

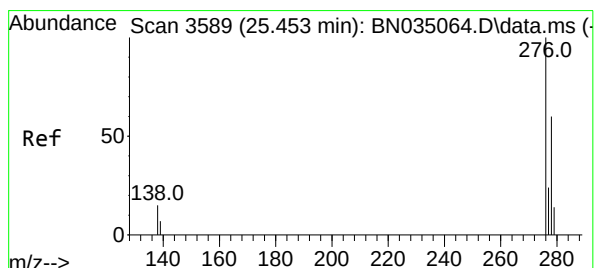
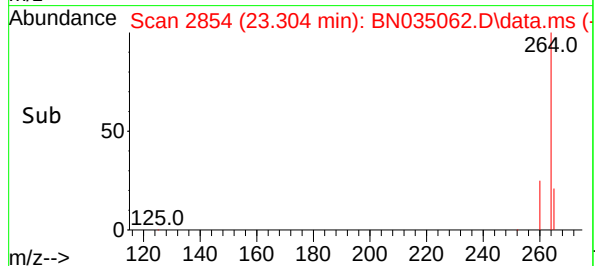
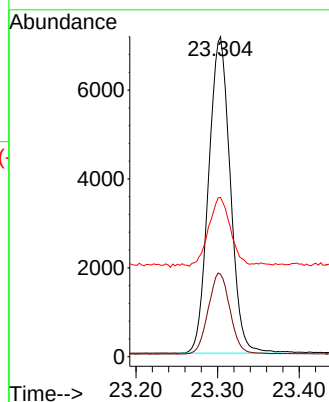
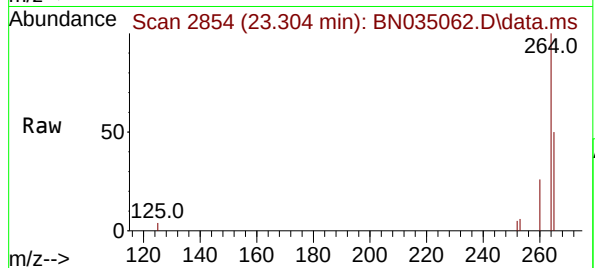
Tgt Ion:264 Resp: 13104

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 49.8 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.101 ng

RT: 25.455 min Scan# 3590

Delta R.T. 0.003 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

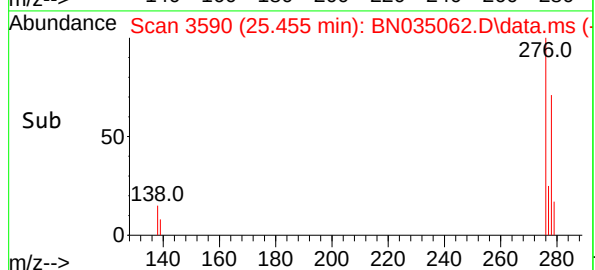
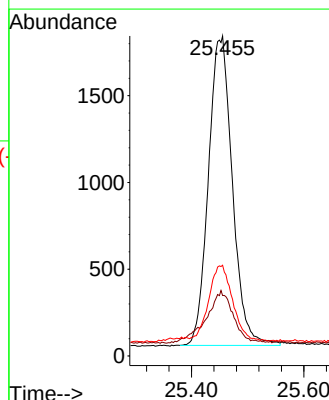
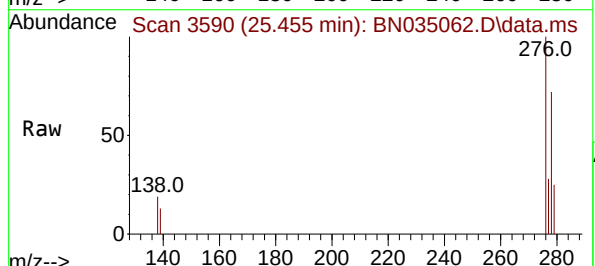
Tgt Ion:276 Resp: 5271

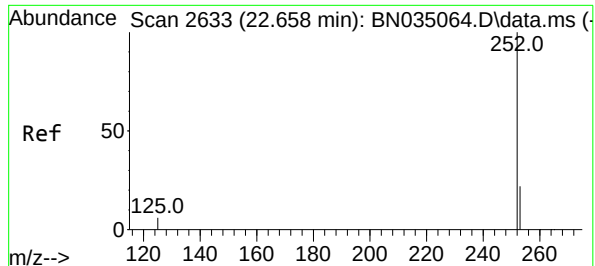
Ion Ratio Lower Upper

276 100

138 19.3 13.0 19.4

277 23.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.099 ng

RT: 22.657 min Scan# 2633

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

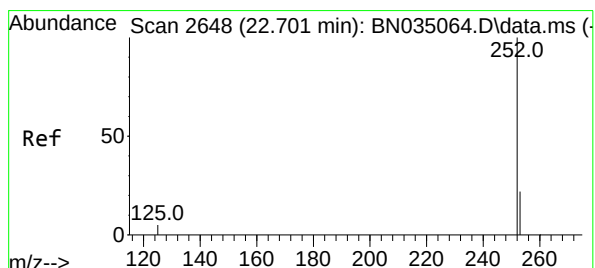
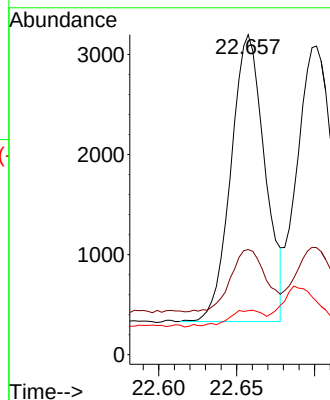
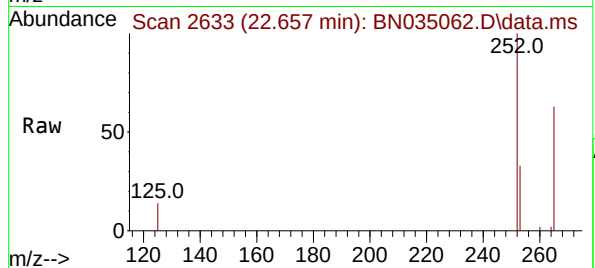
Tgt Ion:252 Resp: 4345

Ion Ratio Lower Upper

252 100

253 32.9 19.3 28.9#

125 13.8 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 0.100 ng

RT: 22.701 min Scan# 2648

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

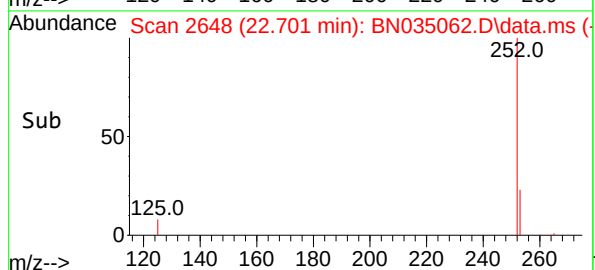
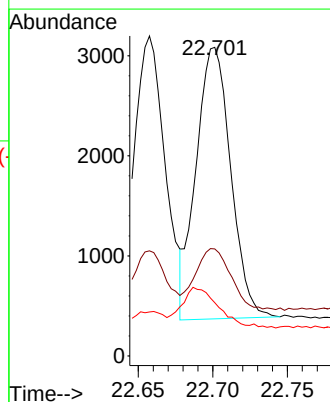
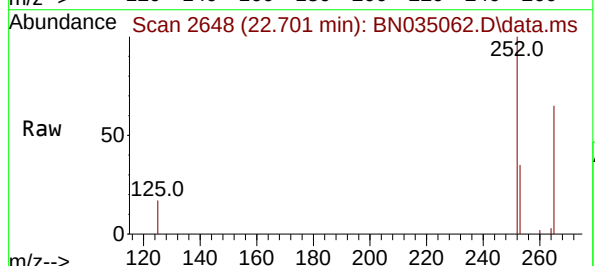
Tgt Ion:252 Resp: 4395

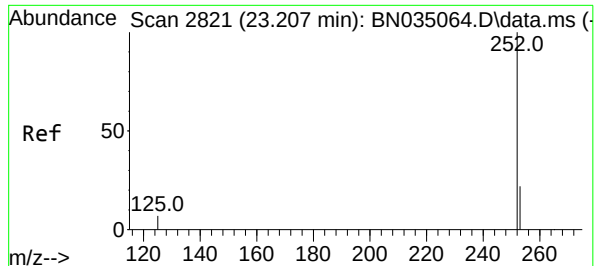
Ion Ratio Lower Upper

252 100

253 34.7 19.5 29.3#

125 17.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.099 ng

RT: 23.204 min Scan# 2820

Delta R.T. -0.003 min

Lab File: BN035062.D

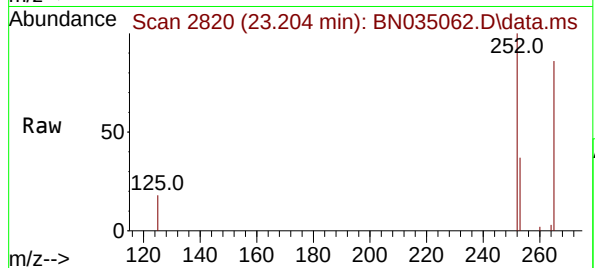
Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



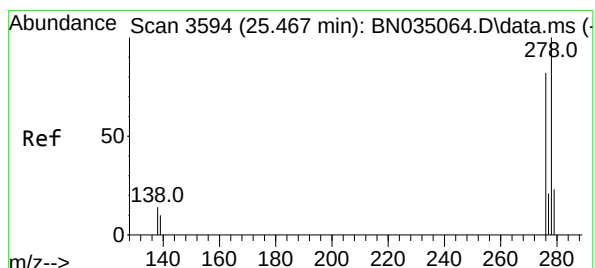
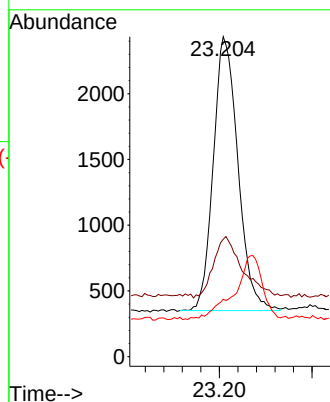
Tgt Ion:252 Resp: 3841

Ion Ratio Lower Upper

252 100

253 36.7 20.1 30.1#

125 18.0 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.099 ng

RT: 25.467 min Scan# 3594

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

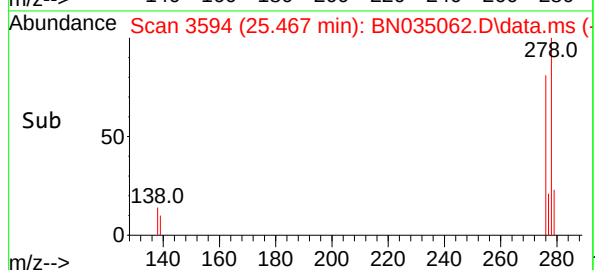
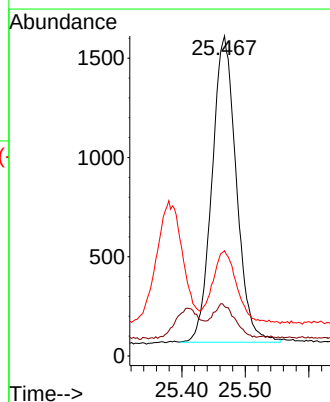
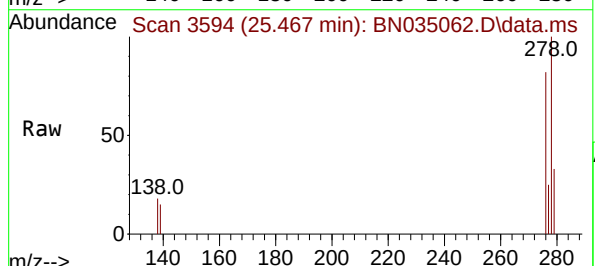
Tgt Ion:278 Resp: 4089

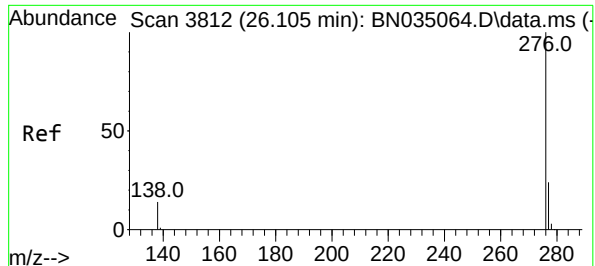
Ion Ratio Lower Upper

278 100

139 15.4 9.3 13.9#

279 32.9 19.7 29.5#





#41

Benzo(g,h,i)perylene

Concen: 0.103 ng

RT: 26.099 min Scan# 3810

Delta R.T. -0.006 min

Lab File: BN035062.D

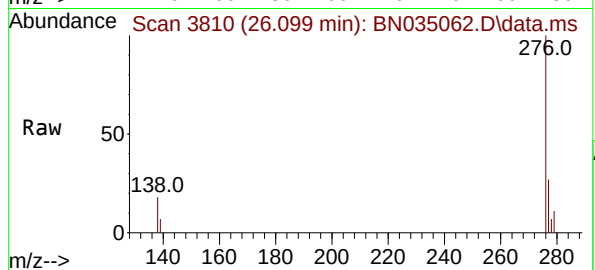
Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



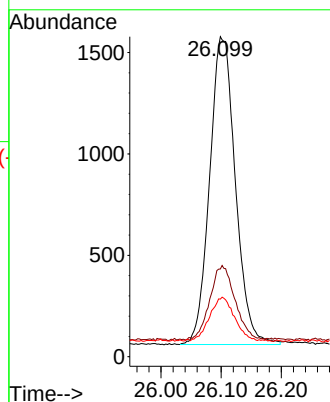
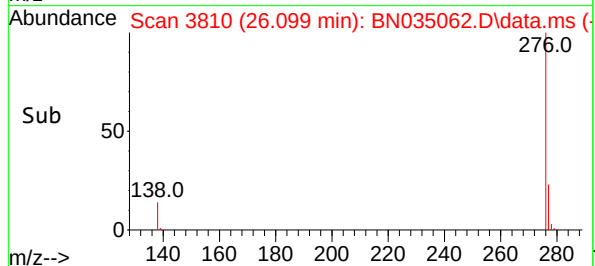
Tgt Ion:276 Resp: 4521

Ion Ratio Lower Upper

276 100

277 27.4 19.9 29.9

138 18.0 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035063.D
 Acq On : 13 Nov 2024 13:16
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Nov 13 16:43:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

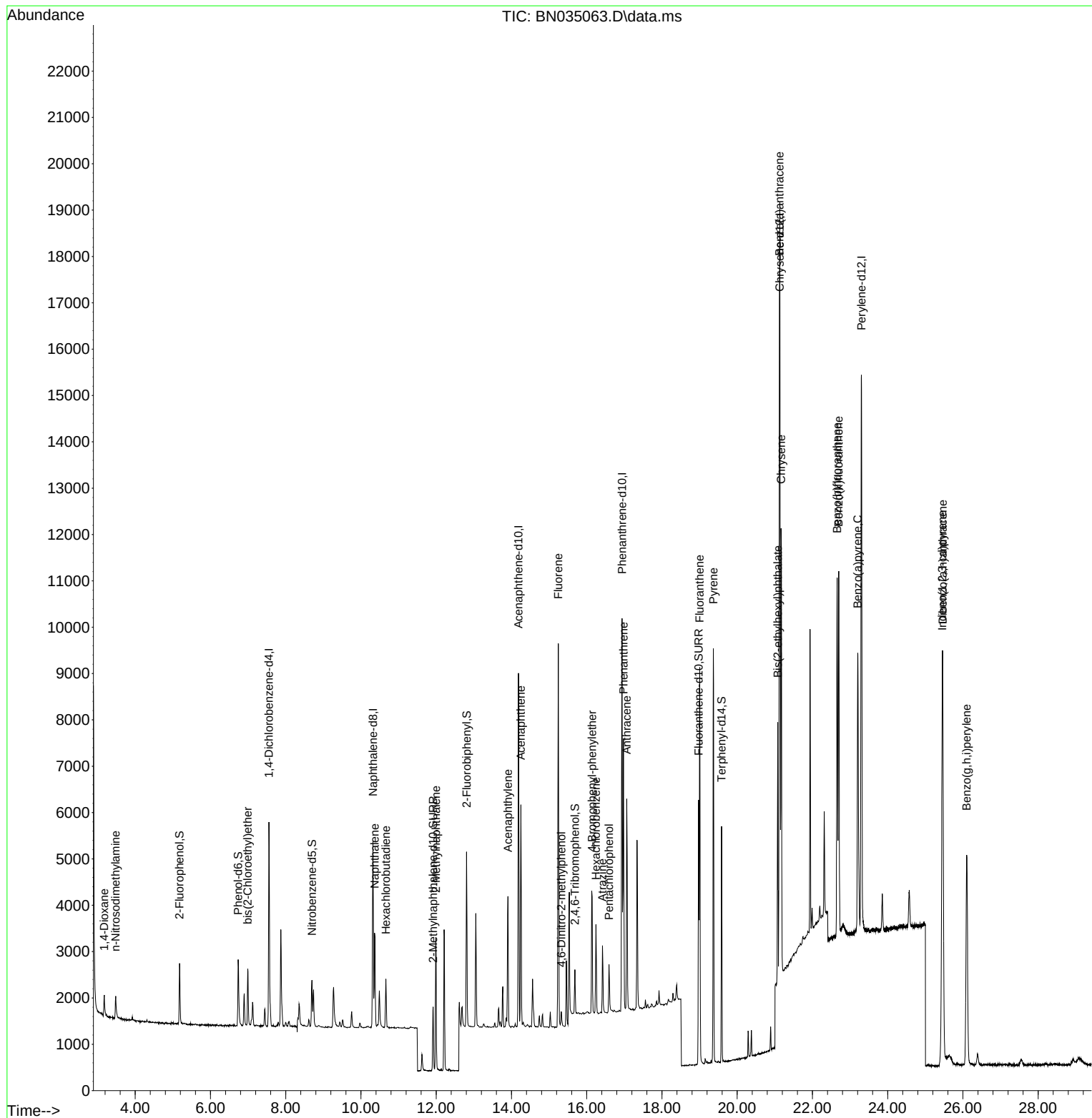
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2177	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5449	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4114	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	11179	0.400	ng	0.00
29) Chrysene-d12	21.131	240	12508	0.400	ng	# 0.00
35) Perylene-d12	23.301	264	14643	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1131	0.205	ng	0.00
5) Phenol-d6	6.737	99	1392	0.201	ng	0.00
8) Nitrobenzene-d5	8.696	82	921	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	1861	0.192	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	538	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	3241	0.194	ng	0.00
27) Fluoranthene-d10	18.976	212	6587	0.192	ng	0.00
31) Terphenyl-d14	19.584	244	5123	0.195	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	416	0.210	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.480	42	357	0.194	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	1033	0.199	ng	99
9) Naphthalene	10.362	128	2748	0.193	ng	96
10) Hexachlorobutadiene	10.661	225	832	0.200	ng	# 99
12) 2-Methylnaphthalene	11.992	142	2039	0.194	ng	97
16) Acenaphthylene	13.908	152	3325	0.189	ng	100
17) Acenaphthene	14.251	154	2219	0.193	ng	99
18) Fluorene	15.245	166	3273	0.193	ng	99
20) 4,6-Dinitro-2-methylph...	15.330	198	376	0.162	ng	# 44
21) 4-Bromophenyl-phenylether	16.145	248	1341	0.188	ng	97
22) Hexachlorobenzene	16.244	284	1445	0.195	ng	99
23) Atrazine	16.418	200	1271	0.199	ng	96
24) Pentachlorophenol	16.592	266	562	0.163	ng	99
25) Phenanthrene	16.977	178	5664	0.193	ng	99
26) Anthracene	17.064	178	5051	0.187	ng	98
28) Fluoranthene	19.004	202	7690	0.190	ng	100
30) Pyrene	19.366	202	8067	0.194	ng	99
32) Benzo(a)anthracene	21.122	228	8558	0.196	ng	99
33) Chrysene	21.167	228	8540	0.198	ng	97
34) Bis(2-ethylhexyl)phtha...	21.077	149	4712	0.208	ng	99
36) Indeno(1,2,3-cd)pyrene	25.450	276	11095	0.190	ng	99
37) Benzo(b)fluoranthene	22.657	252	9315	0.189	ng	# 94
38) Benzo(k)fluoranthene	22.698	252	9432	0.191	ng	# 92
39) Benzo(a)pyrene	23.204	252	8302	0.192	ng	# 92
40) Dibenzo(a,h)anthracene	25.464	278	8750	0.189	ng	95
41) Benzo(g,h,i)perylene	26.099	276	9431	0.192	ng	98

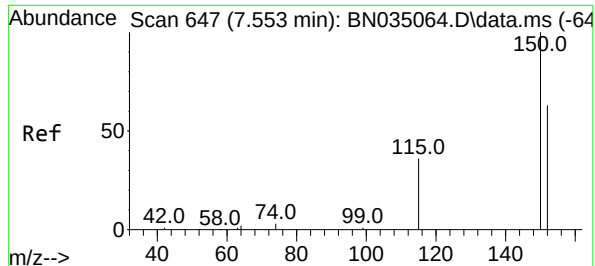
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035063.D
Acq On : 13 Nov 2024 13:16
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 13 16:43:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

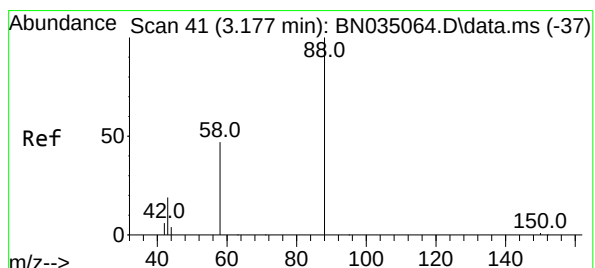
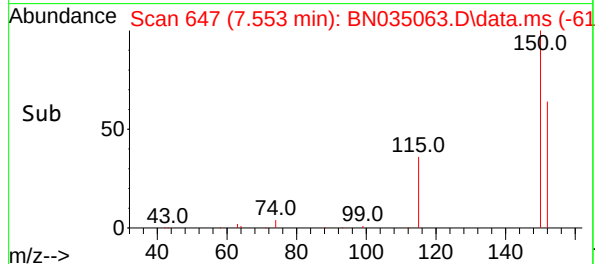
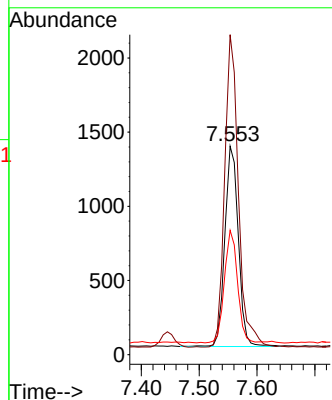
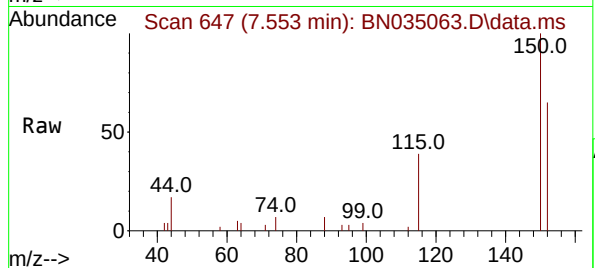




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

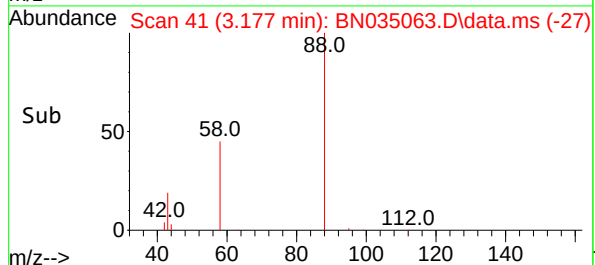
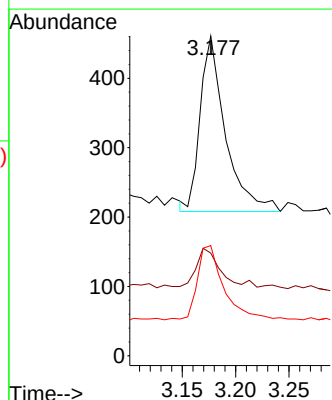
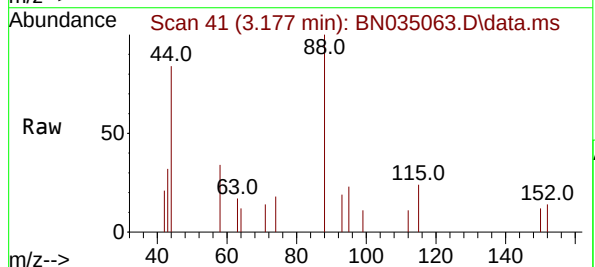
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

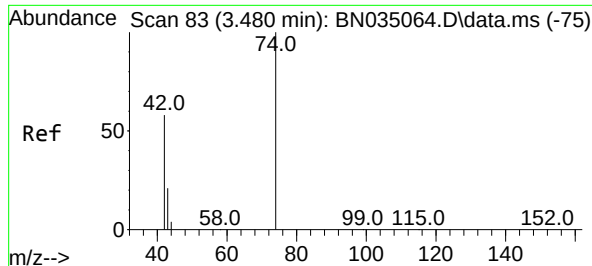
Tgt Ion:152 Resp: 2177
Ion Ratio Lower Upper
152 100
150 153.5 124.5 186.7
115 59.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.210 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 88 Resp: 416
Ion Ratio Lower Upper
88 100
43 24.3 16.9 25.3
58 44.5 39.0 58.4

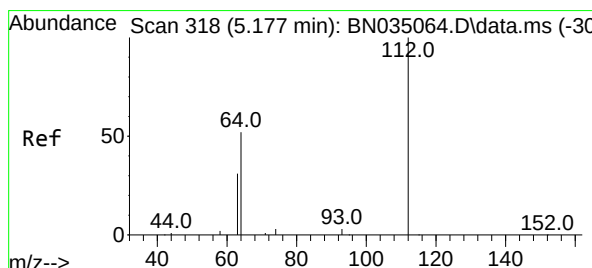
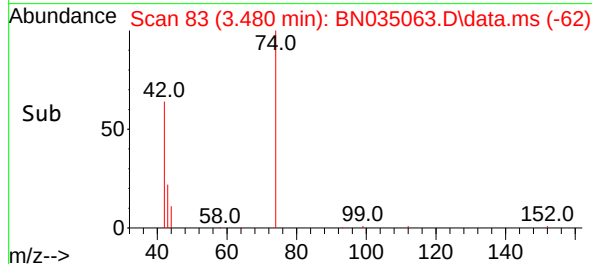
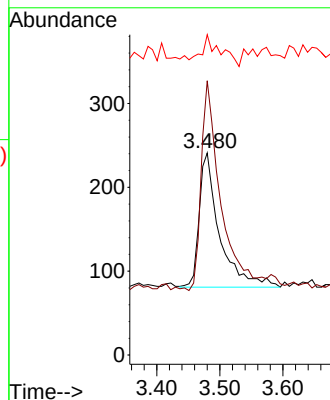
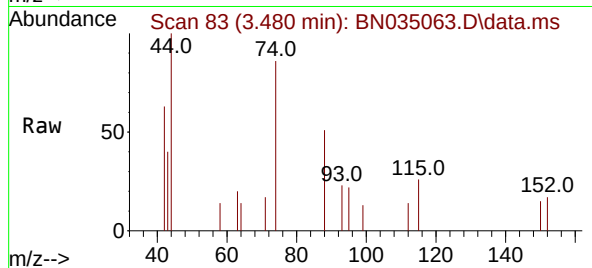




#3
n-Nitrosodimethylamine
Concen: 0.194 ng
RT: 3.480 min Scan# 83
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

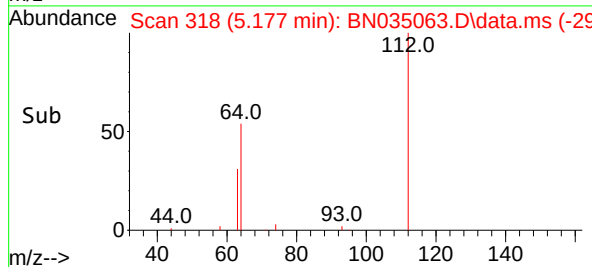
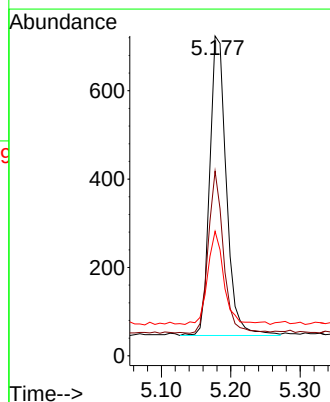
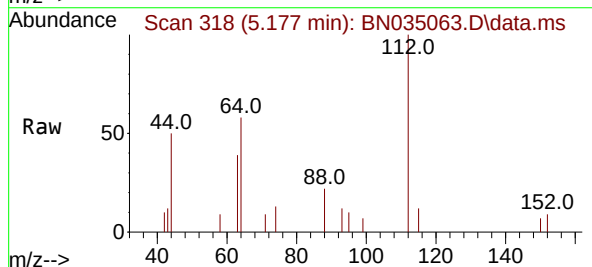
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

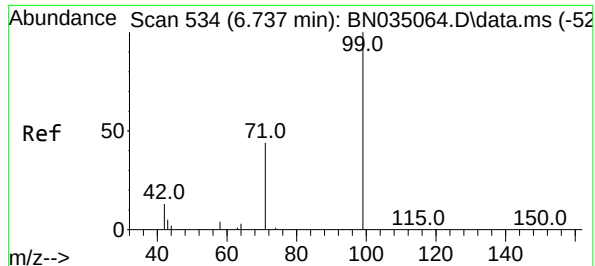
Tgt Ion: 42 Resp: 357
Ion Ratio Lower Upper
42 100
74 149.3 120.8 181.2
44 22.1 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.205 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 112 Resp: 1131
Ion Ratio Lower Upper
112 100
64 49.8 39.7 59.5
63 30.4 23.0 34.4

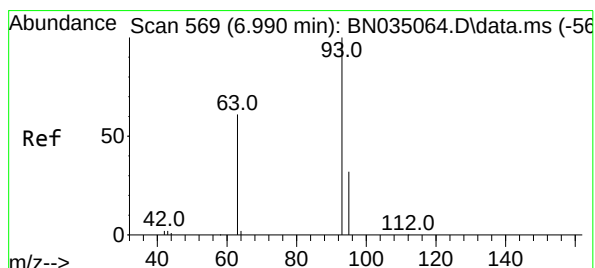
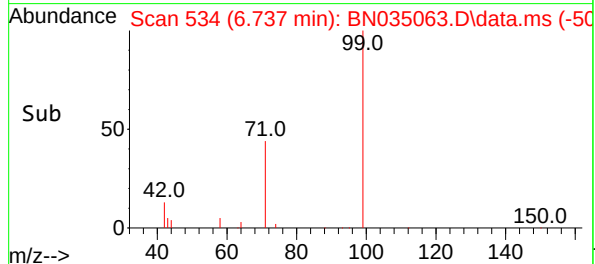
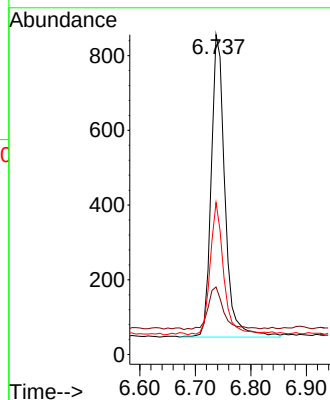
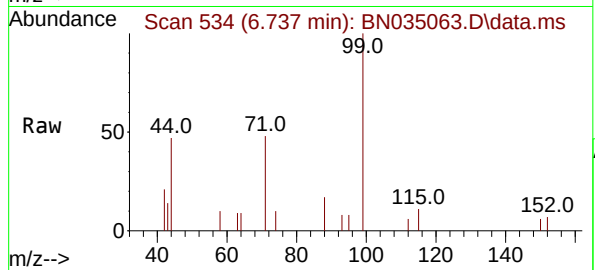




#5
Phenol-d6
Concen: 0.201 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

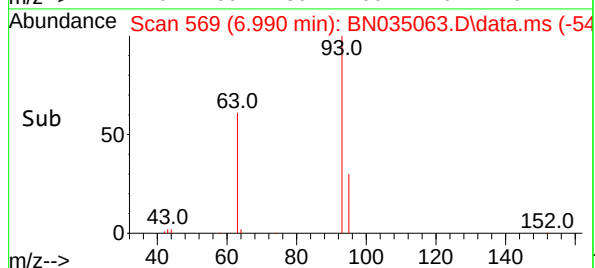
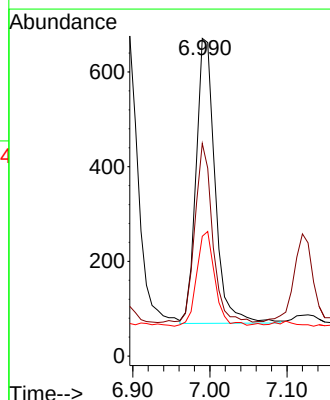
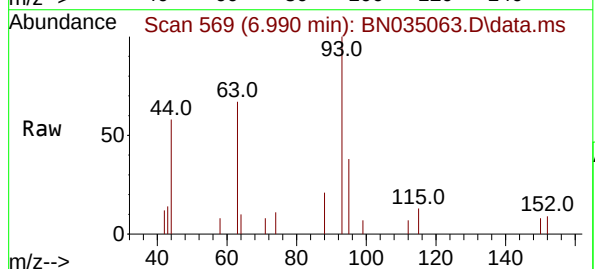
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

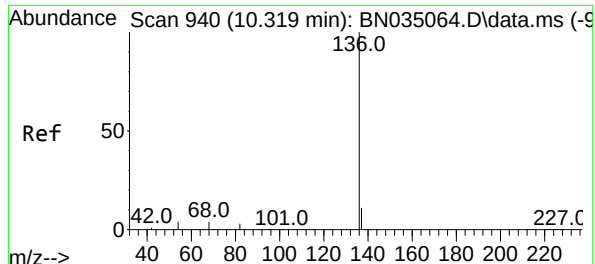
Tgt Ion: 99 Resp: 1392
Ion Ratio Lower Upper
99 100
42 16.1 11.4 17.0
71 43.0 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.199 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 93 Resp: 1033
Ion Ratio Lower Upper
93 100
63 58.2 47.4 71.2
95 32.1 26.2 39.4

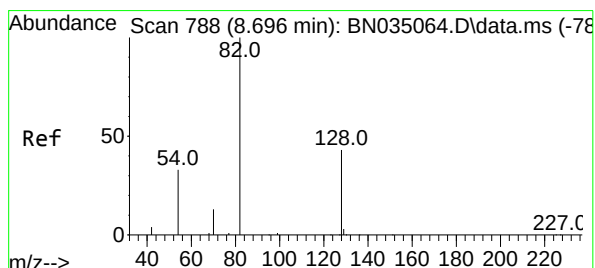
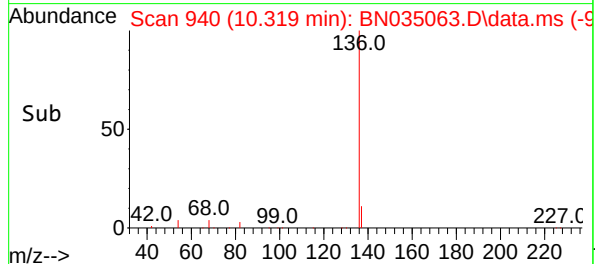
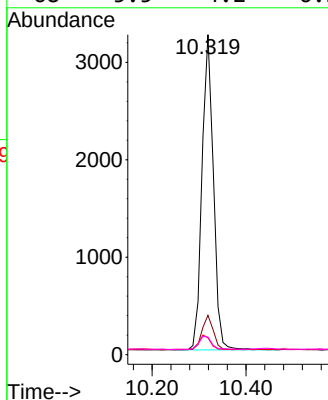
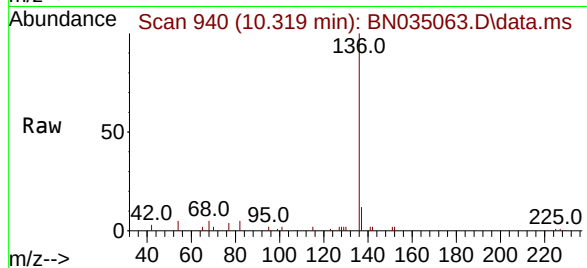




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

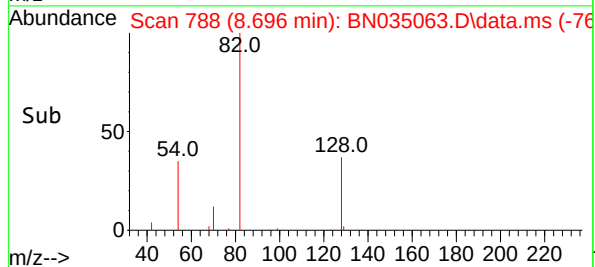
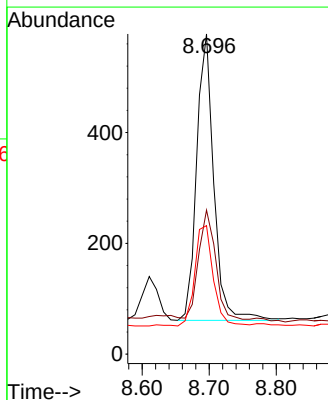
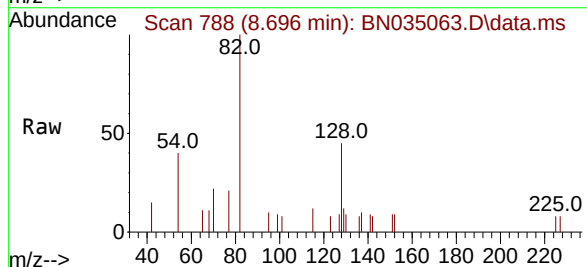
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

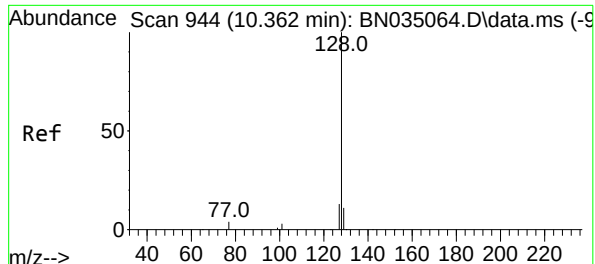
Tgt Ion:	136	Resp:	5449
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	5.2	4.0	6.0
68	5.5	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:	82	Resp:	921
Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.5	54.7
54	40.1	28.7	43.1

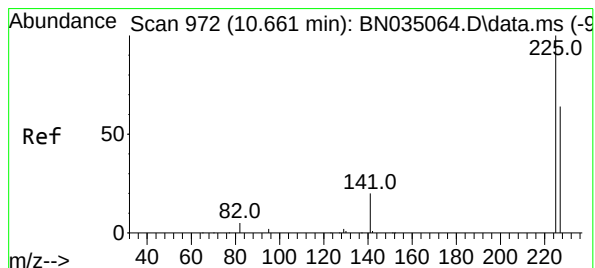
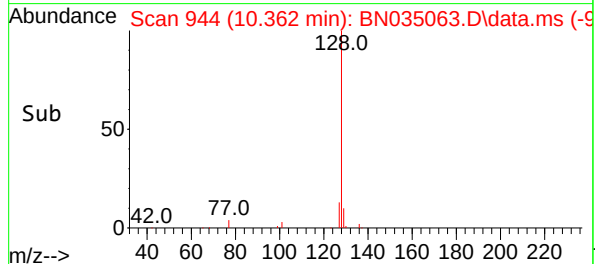
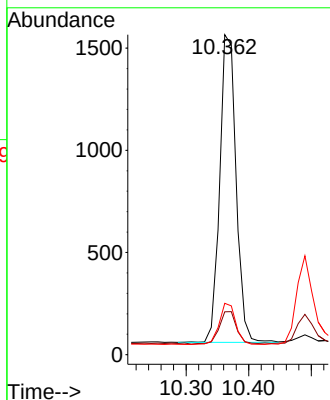
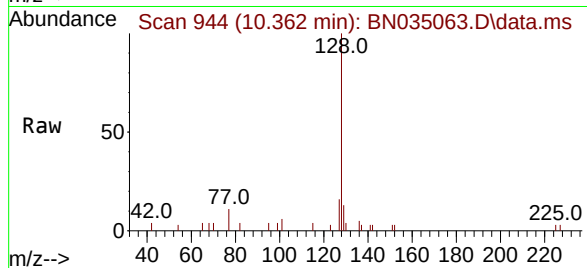




#9
Naphthalene
Concen: 0.193 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

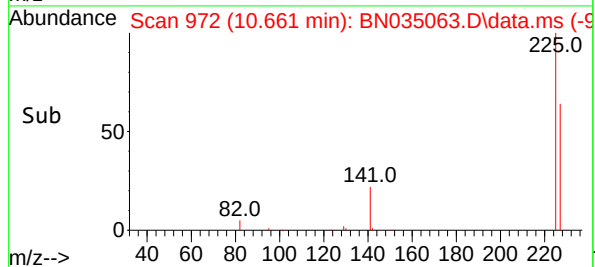
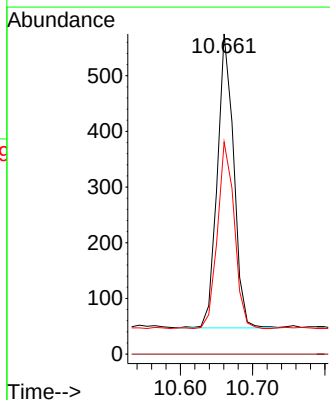
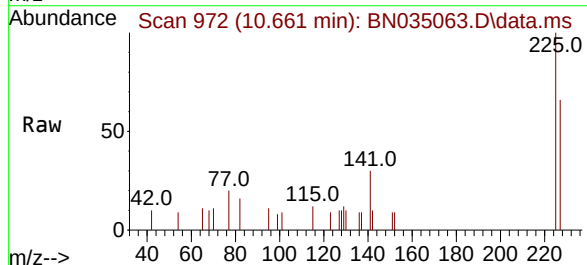
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

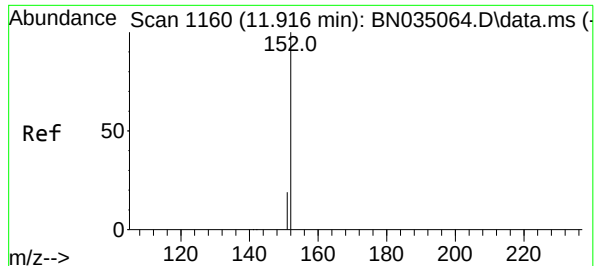
Tgt Ion:128 Resp: 2748
Ion Ratio Lower Upper
128 100
129 13.4 9.6 14.4
127 16.0 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:225 Resp: 832
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 51.5 77.3

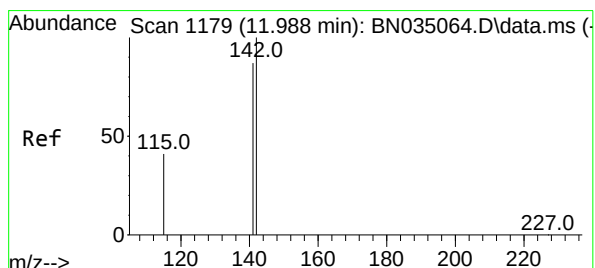
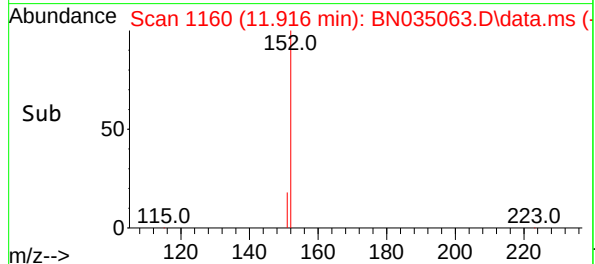
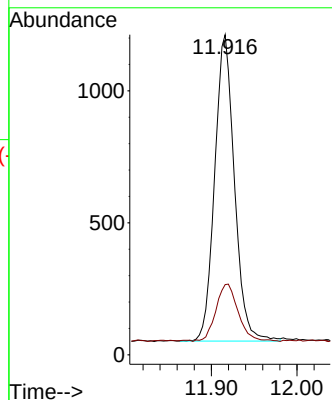
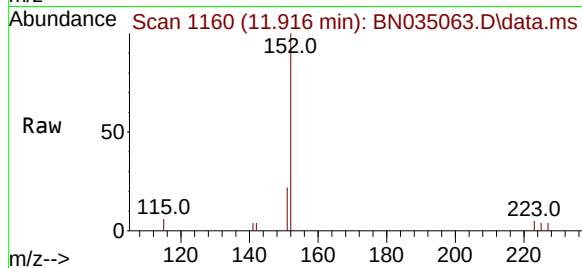




#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 11.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

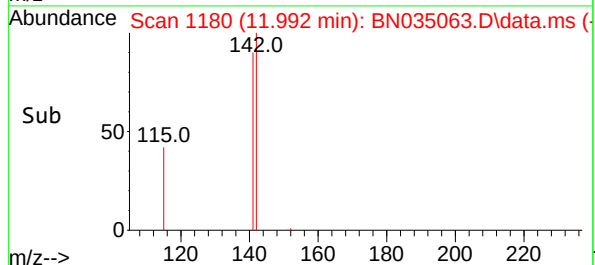
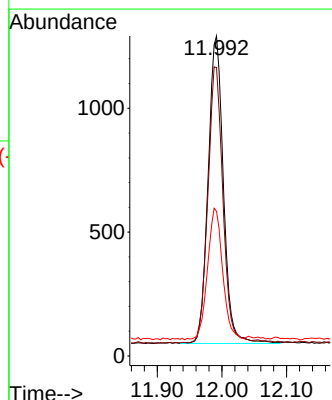
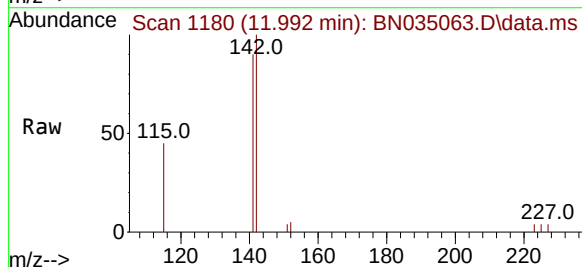
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

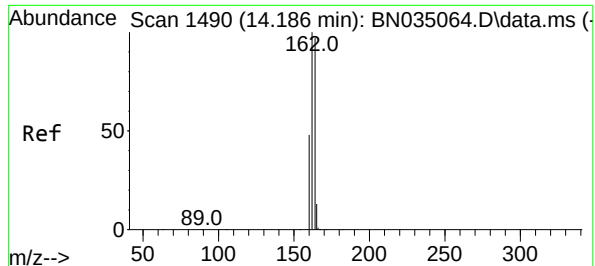
Tgt Ion:152 Resp: 1861
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.194 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.004 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:142 Resp: 2039
Ion Ratio Lower Upper
142 100
141 90.2 70.1 105.1
115 45.2 34.4 51.6

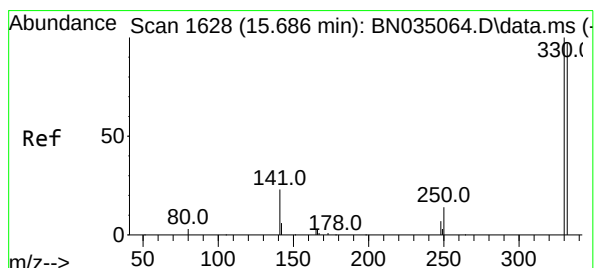
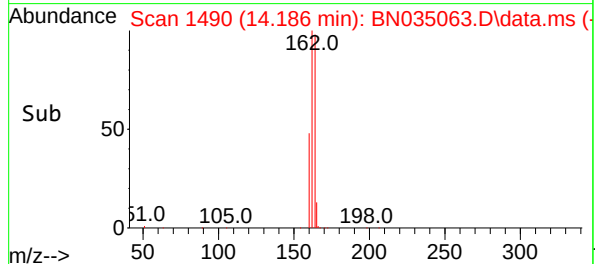
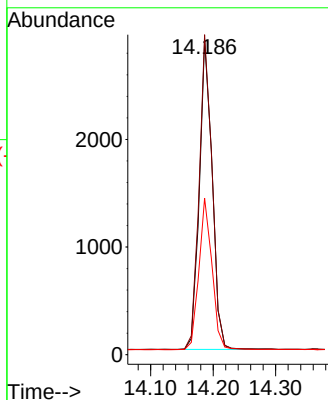
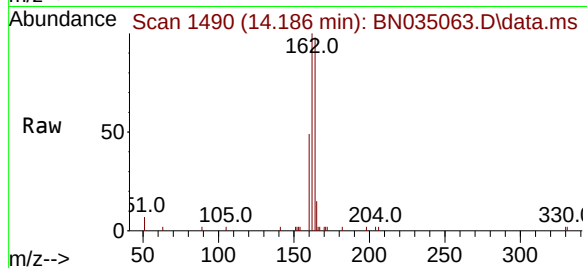




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

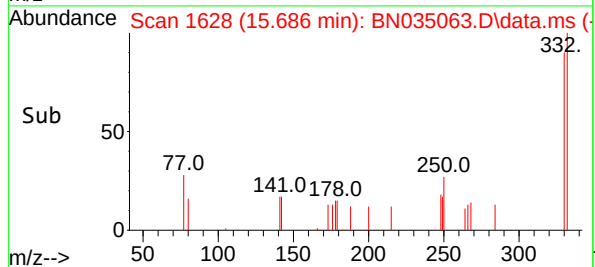
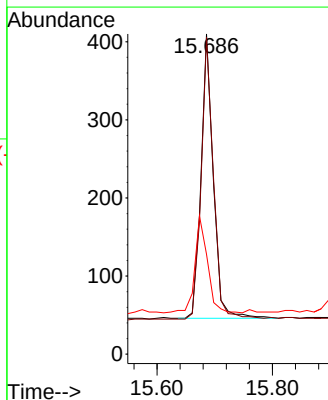
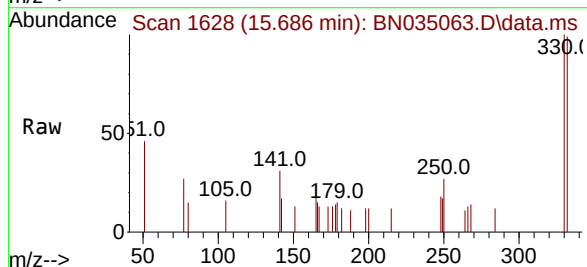
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

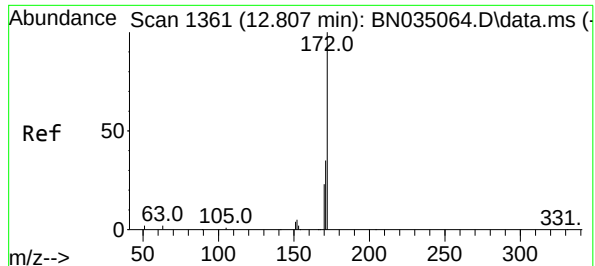
Tgt Ion:164 Resp: 4114
Ion Ratio Lower Upper
164 100
162 101.7 82.2 123.2
160 49.8 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:330 Resp: 538
Ion Ratio Lower Upper
330 100
332 99.1 76.9 115.3
141 34.8 29.6 44.4

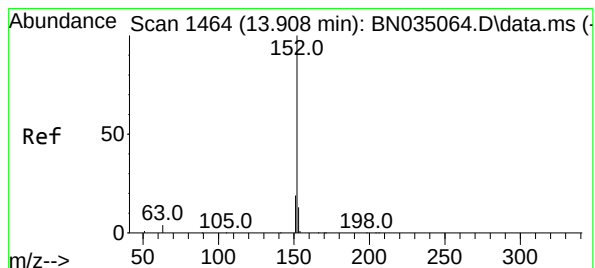
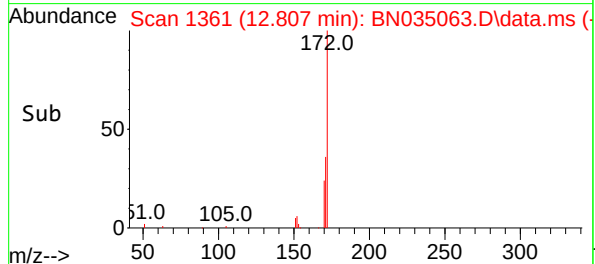
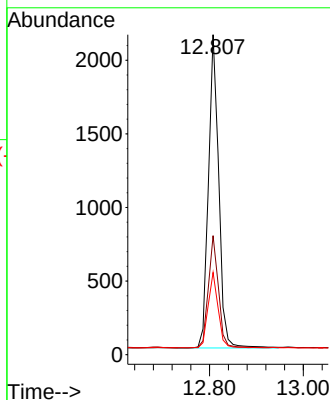
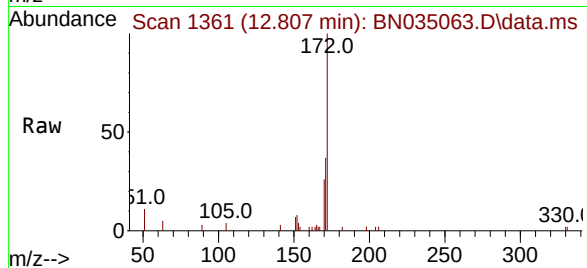




#15
2-Fluorobiphenyl
Concen: 0.194 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

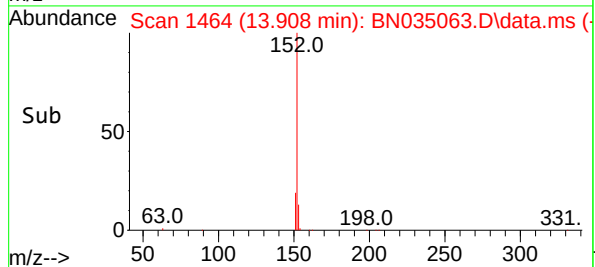
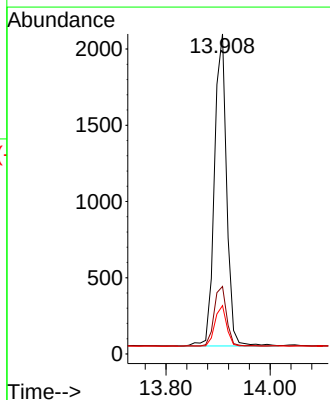
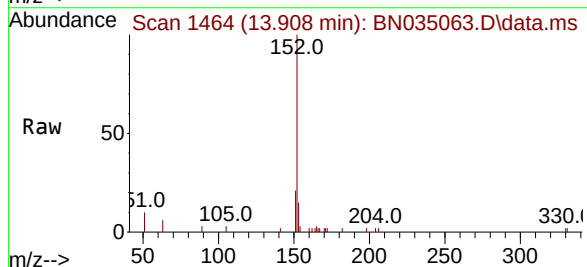
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

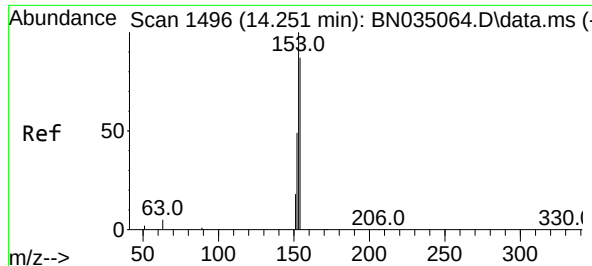
Tgt Ion:	172	Resp:	3241
Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.2	42.4
170	25.7	19.0	28.6



#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:	152	Resp:	3325
Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.8
153	13.0	10.2	15.4

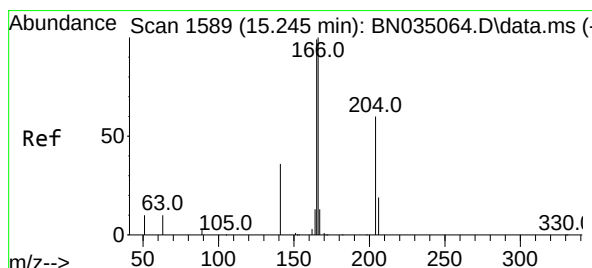
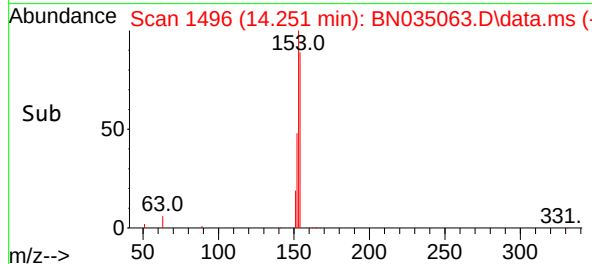
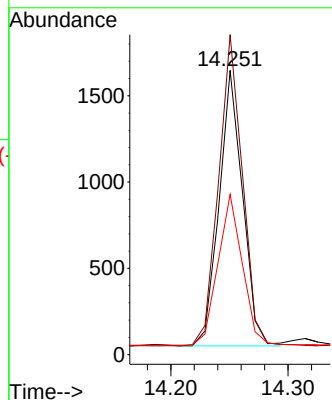
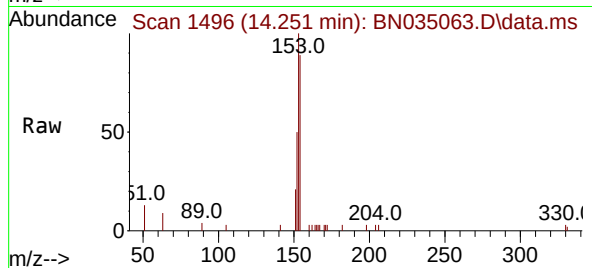




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.251 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

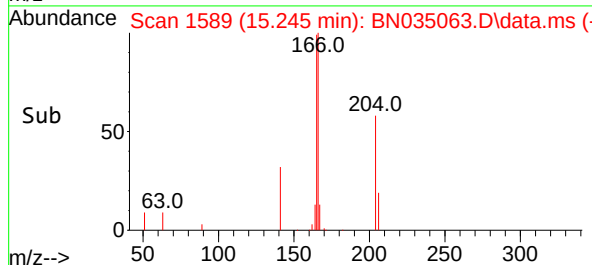
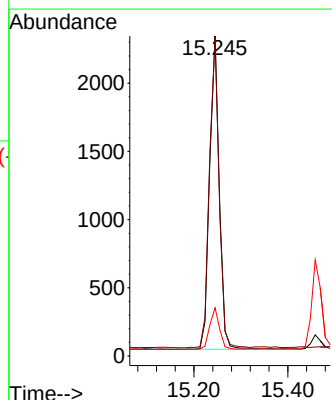
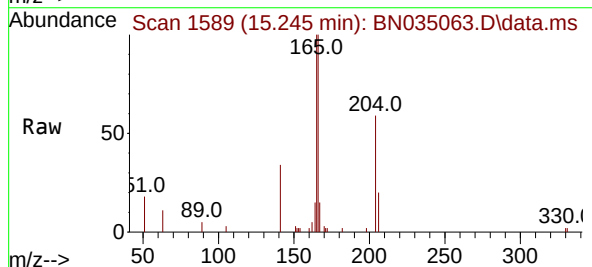
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

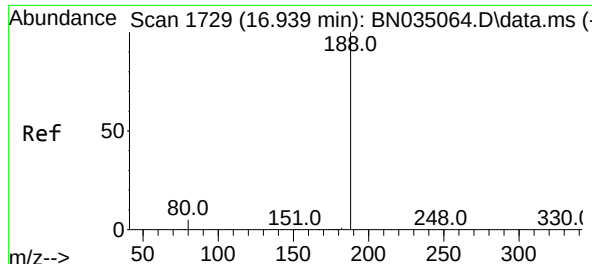
Tgt Ion:154 Resp: 2219
Ion Ratio Lower Upper
154 100
153 114.9 91.6 137.4
152 57.9 45.8 68.6



#18
Fluorene
Concen: 0.193 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:166 Resp: 3273
Ion Ratio Lower Upper
166 100
165 99.5 79.1 118.7
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

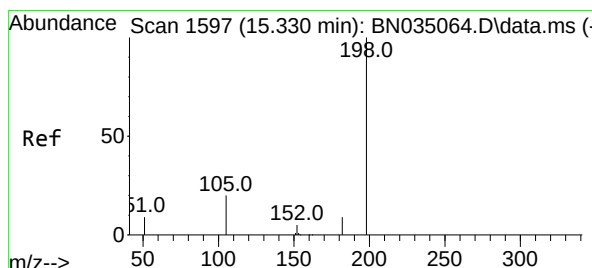
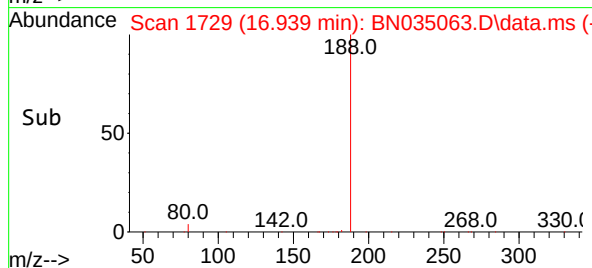
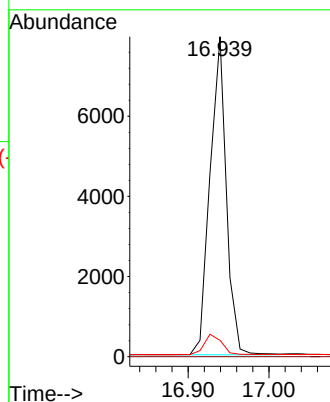
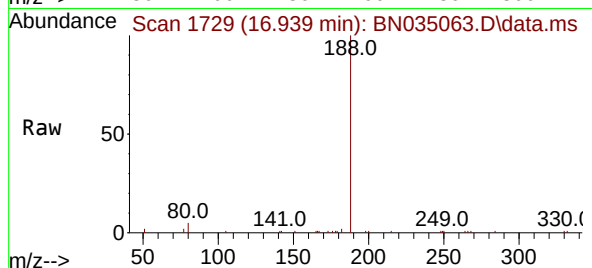
Tgt Ion:188 Resp: 11179

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.1 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.162 ng

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

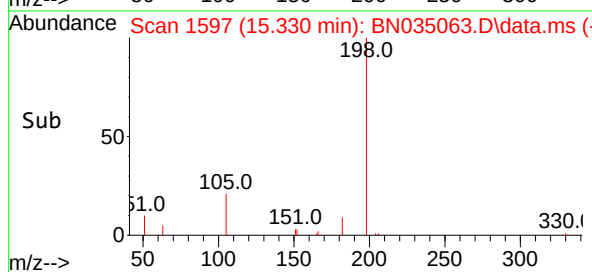
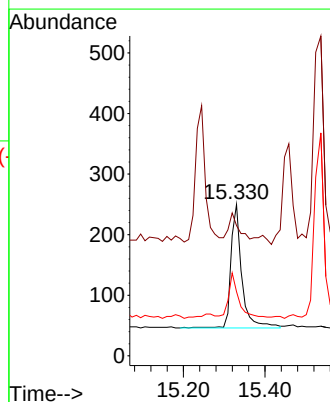
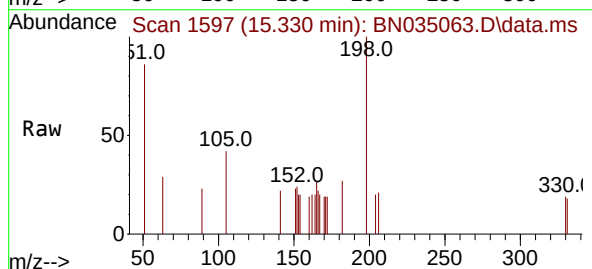
Tgt Ion:198 Resp: 376

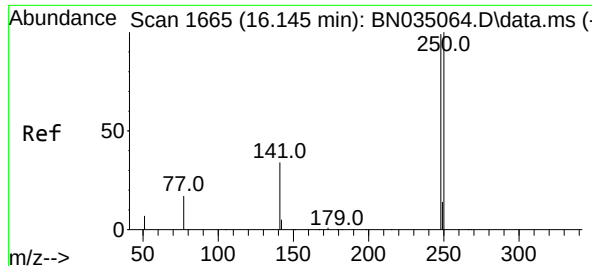
Ion Ratio Lower Upper

198 100

51 86.0 29.9 44.9#

105 42.4 23.7 35.5#

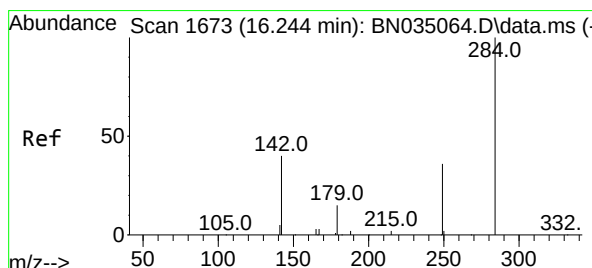
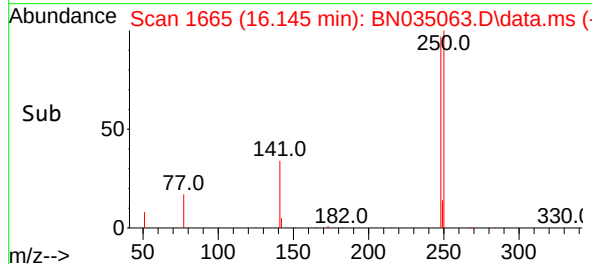
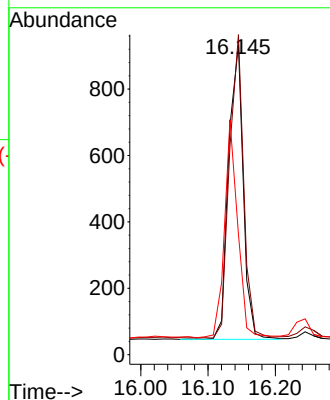
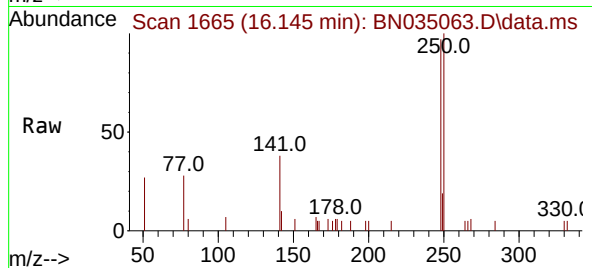




#21
4-Bromophenyl-phenylether
Concen: 0.188 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

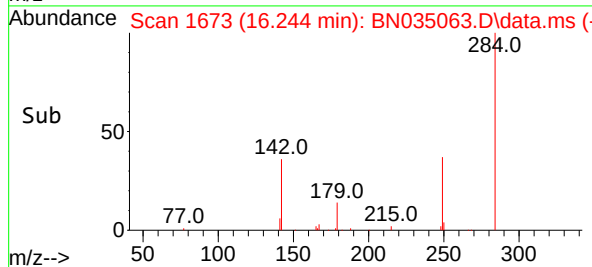
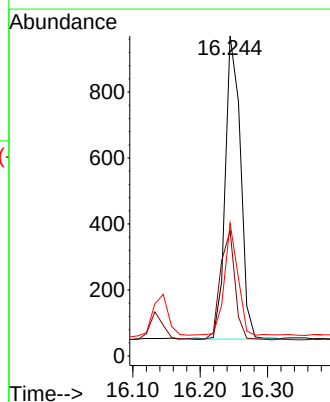
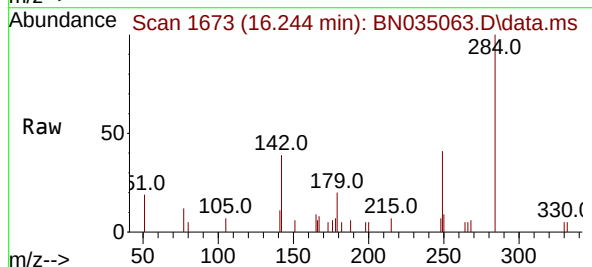
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

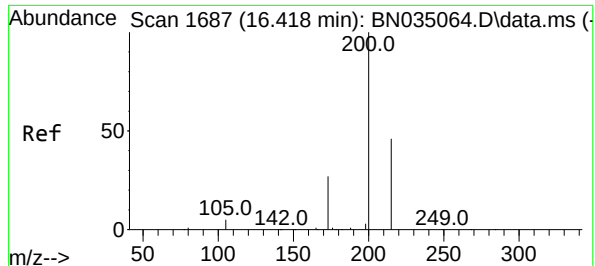
Tgt Ion:	248	Resp:	1341
Ion	Ratio	Lower	Upper
248	100		
250	103.4	81.2	121.8
141	38.9	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:	284	Resp:	1445
Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	32.9	26.2	39.2





#23

Atrazine

Concen: 0.199 ng

RT: 16.418 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

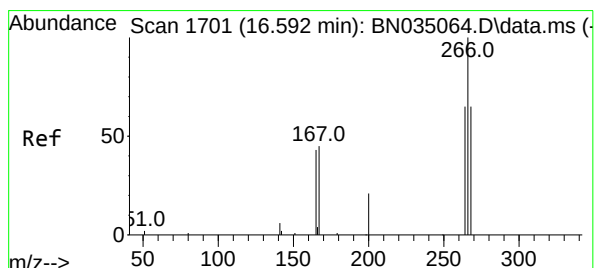
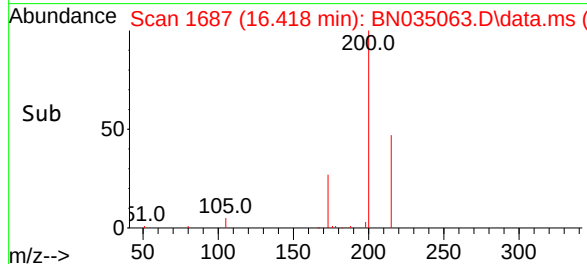
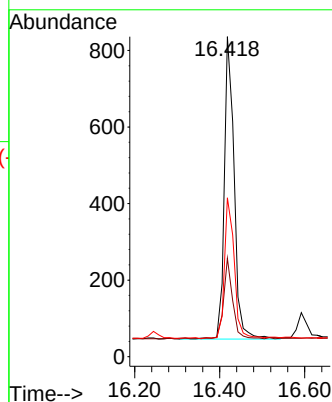
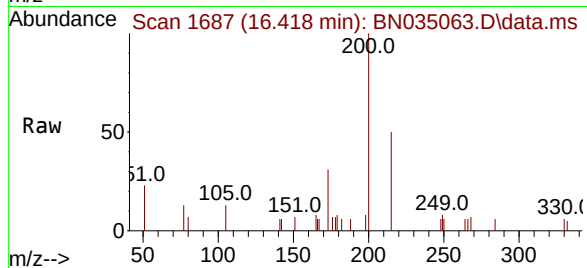
Tgt Ion:200 Resp: 1271

Ion Ratio Lower Upper

200 100

173 30.7 22.6 33.8

215 49.6 37.8 56.6



#24

Pentachlorophenol

Concen: 0.163 ng

RT: 16.592 min Scan# 1701

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

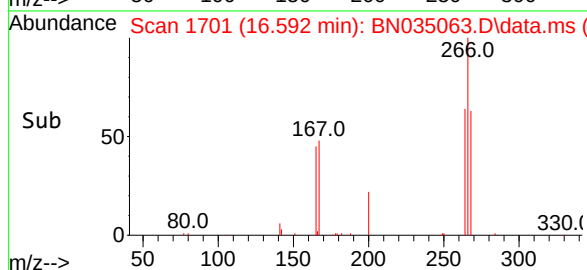
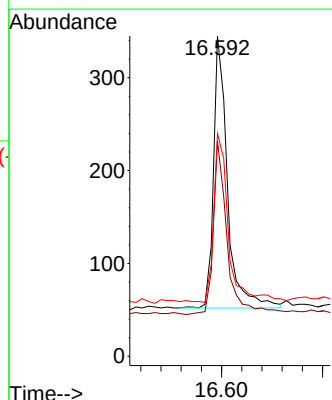
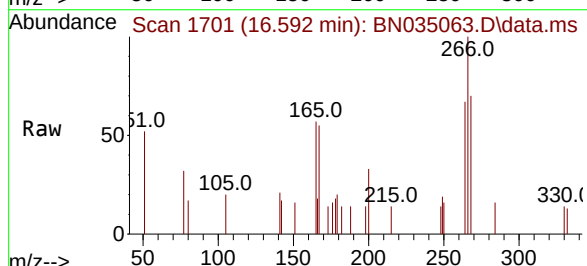
Tgt Ion:266 Resp: 562

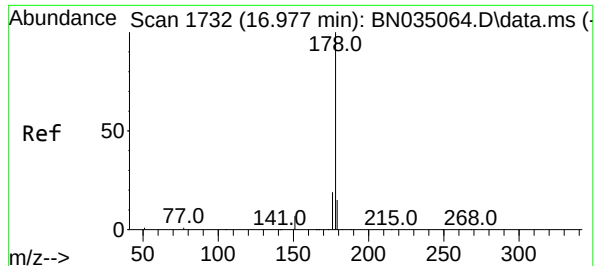
Ion Ratio Lower Upper

266 100

264 63.3 49.4 74.0

268 65.1 52.6 79.0

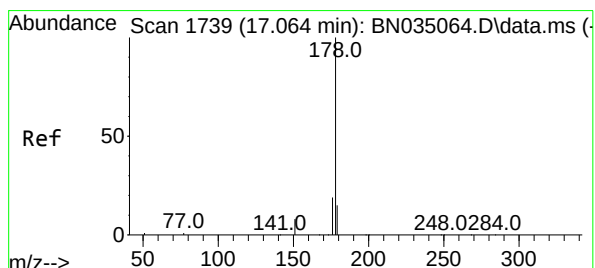
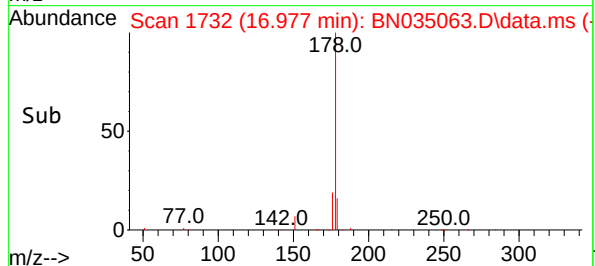
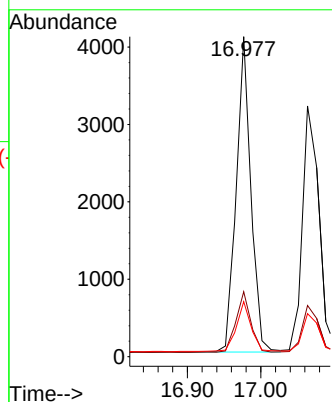
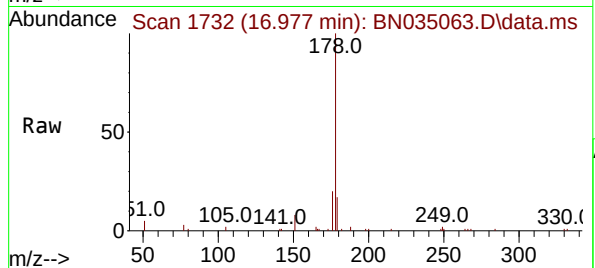




#25
Phenanthrene
Concen: 0.193 ng
RT: 16.977 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

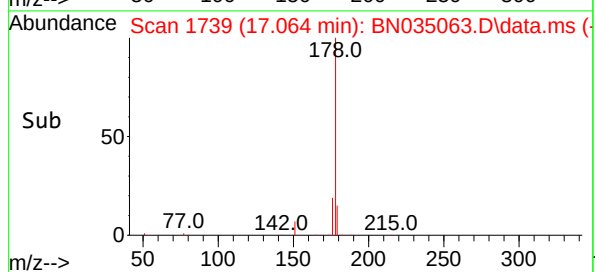
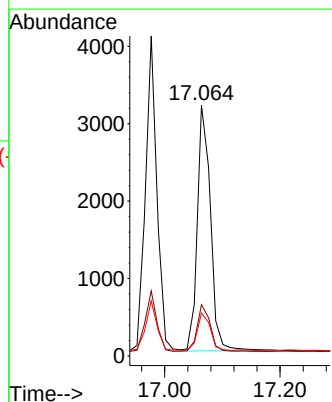
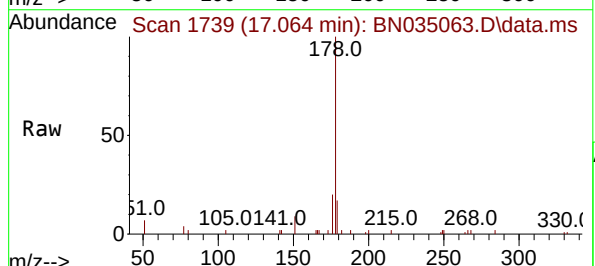
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

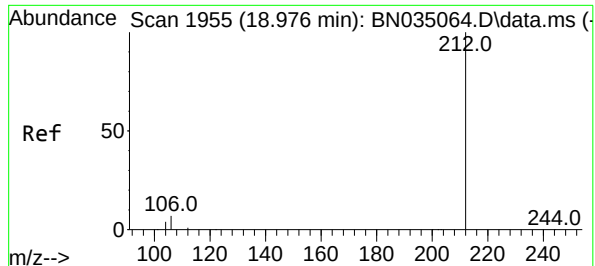
Tgt Ion:178 Resp: 5664
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 16.3 12.6 18.8



#26
Anthracene
Concen: 0.187 ng
RT: 17.064 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:178 Resp: 5051
Ion Ratio Lower Upper
178 100
176 19.2 14.6 22.0
179 14.6 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.192 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

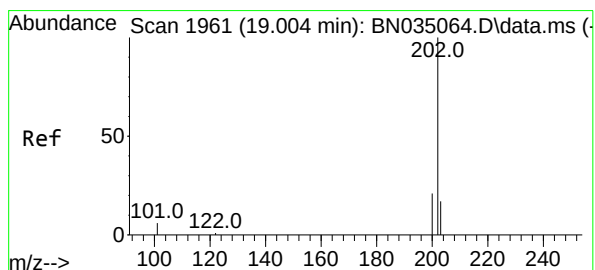
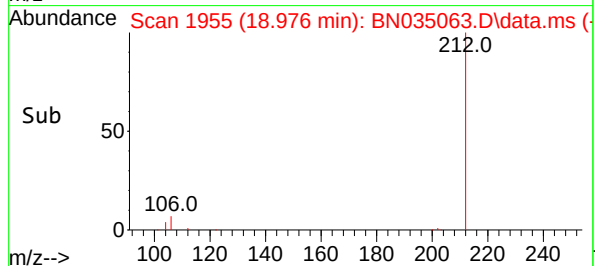
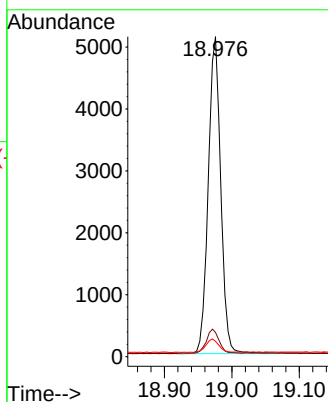
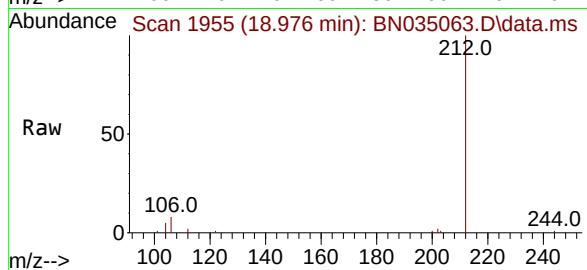
Tgt Ion:212 Resp: 6587

Ion Ratio Lower Upper

212 100

106 7.6 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.004 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

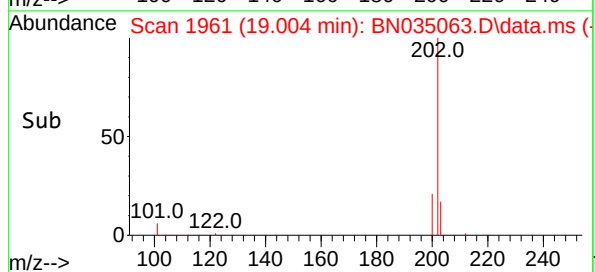
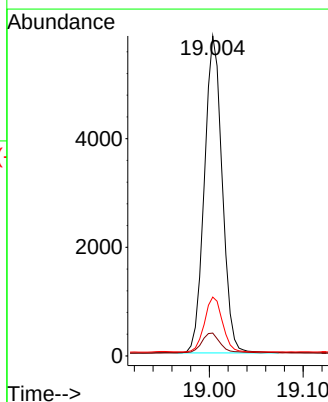
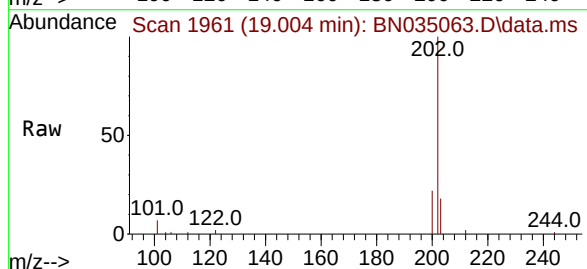
Tgt Ion:202 Resp: 7690

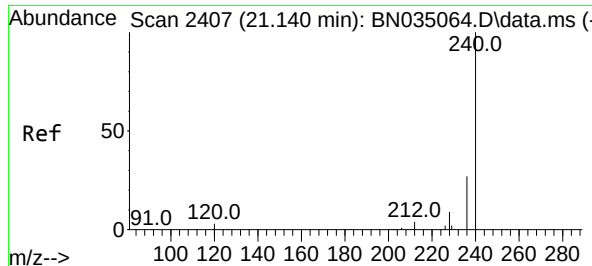
Ion Ratio Lower Upper

202 100

101 7.0 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.131 min Scan# 2406

Delta R.T. -0.009 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

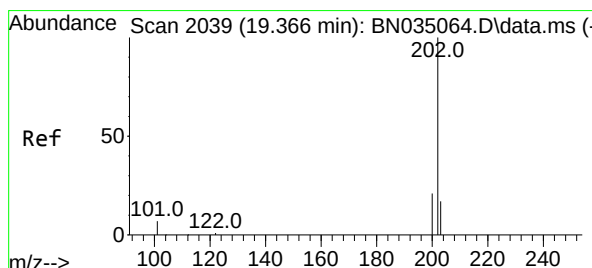
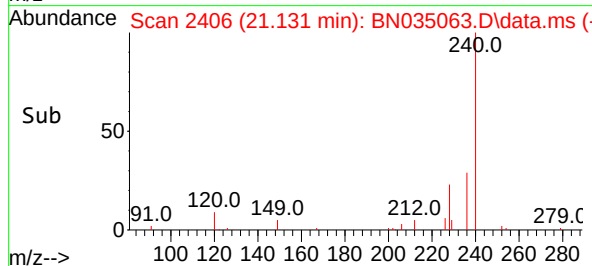
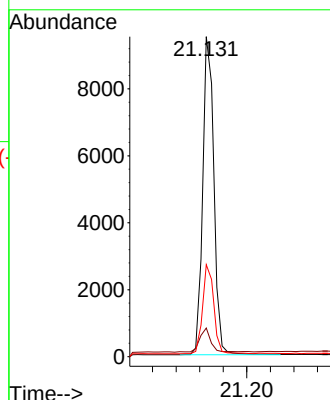
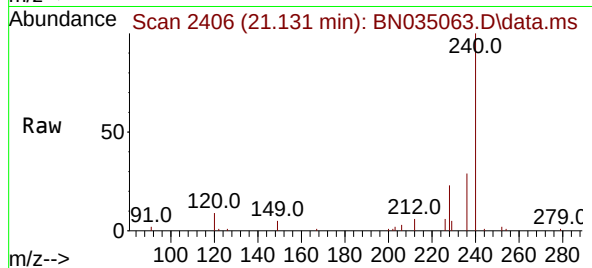
Tgt Ion:240 Resp: 12508

Ion Ratio Lower Upper

240 100

120 9.0 3.8 5.6#

236 28.8 22.2 33.2



#30

Pyrene

Concen: 0.194 ng

RT: 19.366 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

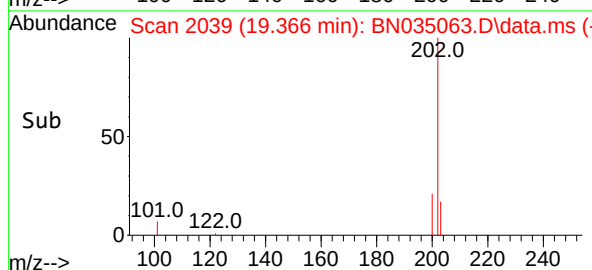
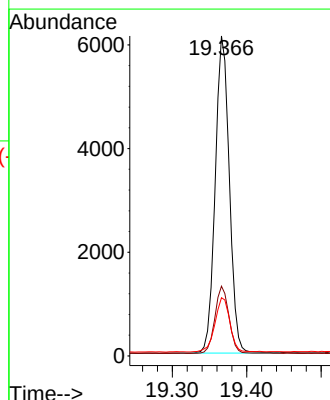
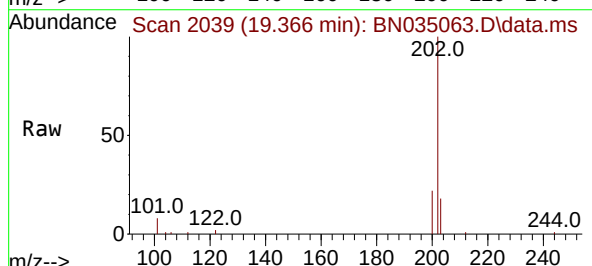
Tgt Ion:202 Resp: 8067

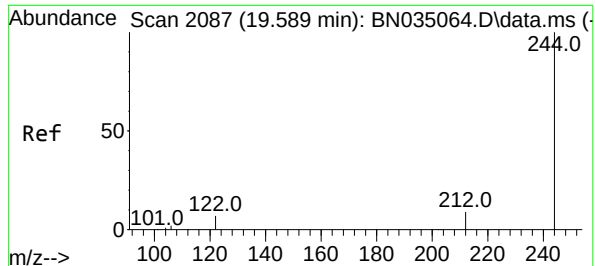
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 18.1 14.2 21.4

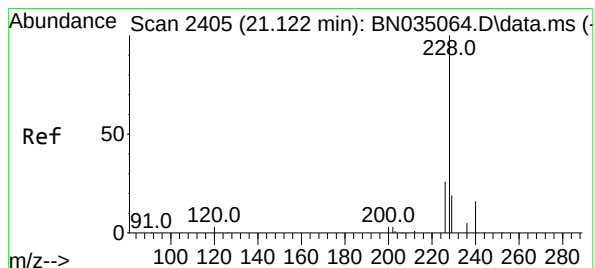
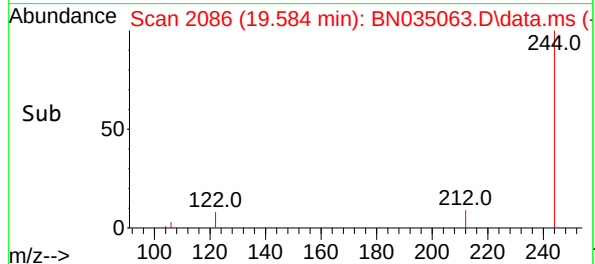
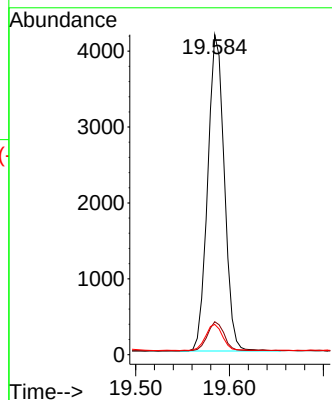
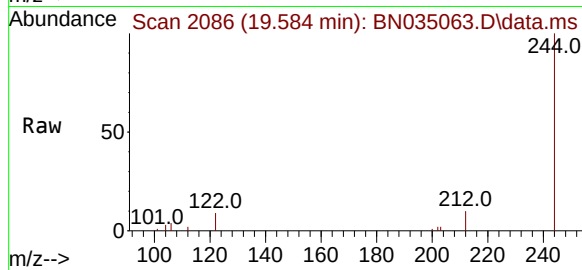




#31
Terphenyl-d14
Concen: 0.195 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

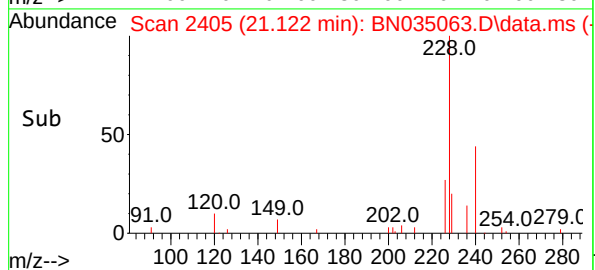
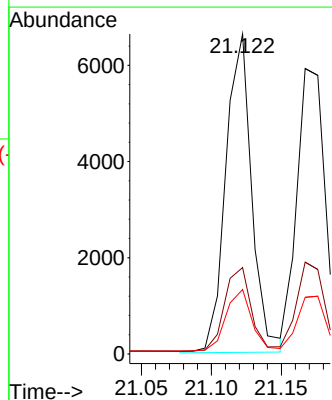
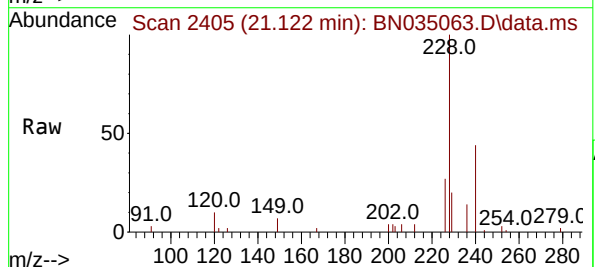
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

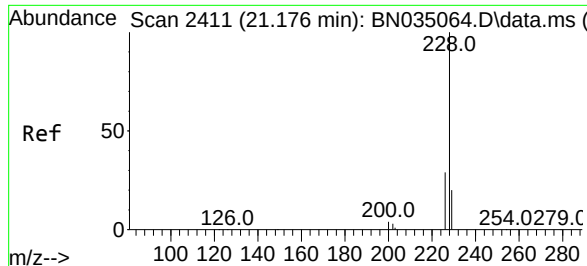
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.6	11.4
122	9.5	6.1	9.1



#32
Benzo(a)anthracene
Concen: 0.196 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.4	32.0
229	20.1	15.7	23.5





#33

Chrysene

Concen: 0.198 ng

RT: 21.167 min Scan# 2411

Delta R.T. -0.009 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

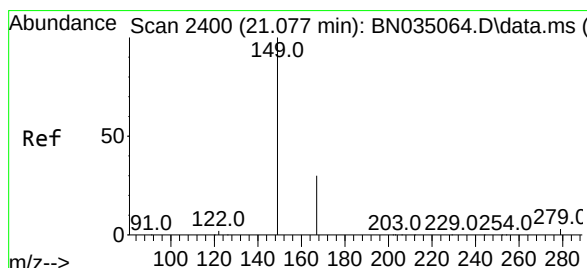
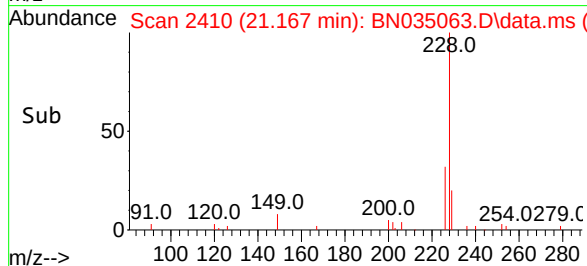
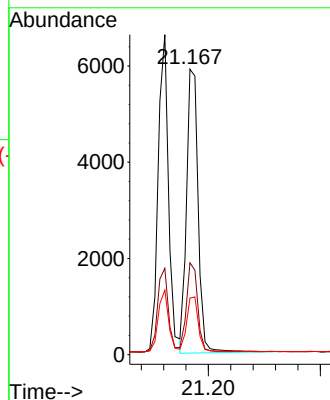
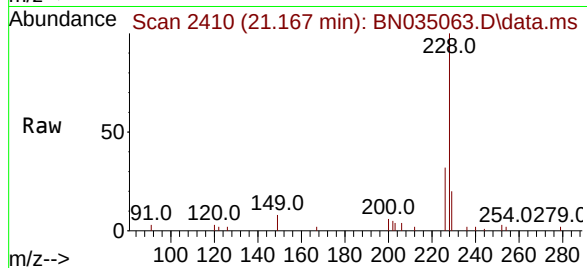
Tgt Ion:228 Resp: 8540

Ion Ratio Lower Upper

228 100

226 32.2 23.7 35.5

229 19.9 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.208 ng

RT: 21.077 min Scan# 2400

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

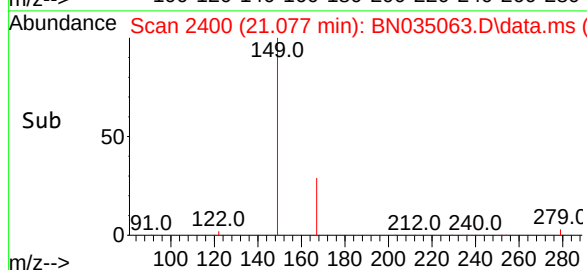
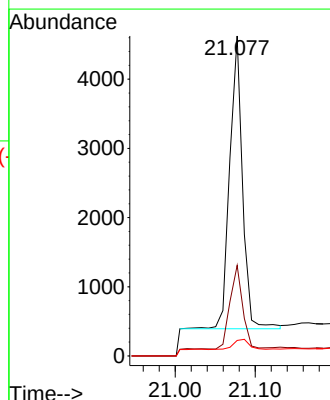
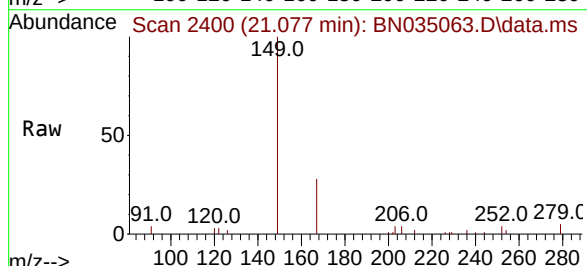
Tgt Ion:149 Resp: 4712

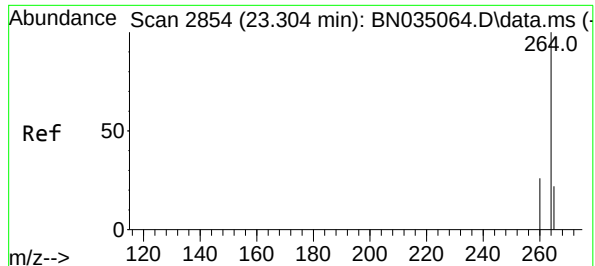
Ion Ratio Lower Upper

149 100

167 28.3 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.301 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035063.D

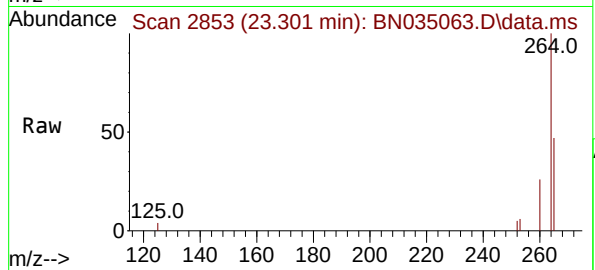
Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



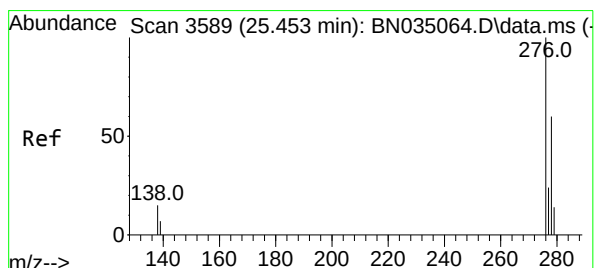
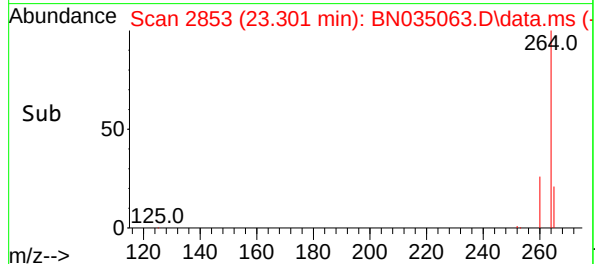
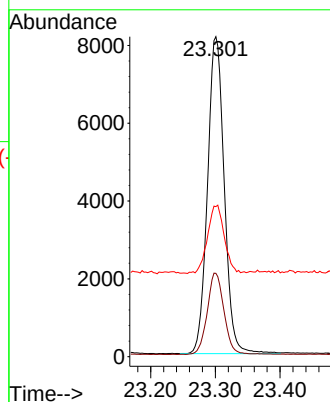
Tgt Ion:264 Resp: 14643

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 46.9 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.190 ng

RT: 25.450 min Scan# 3588

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

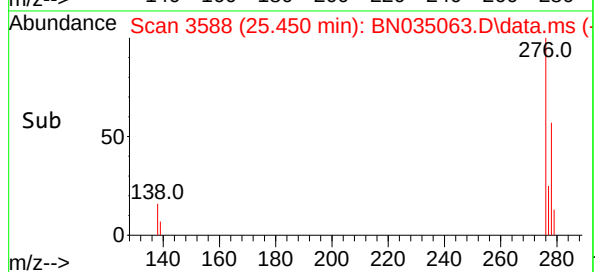
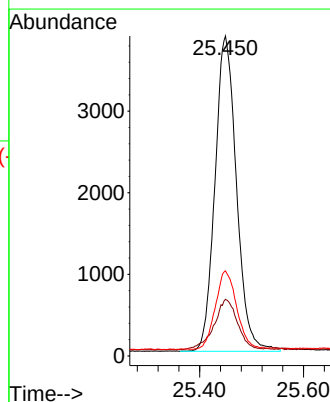
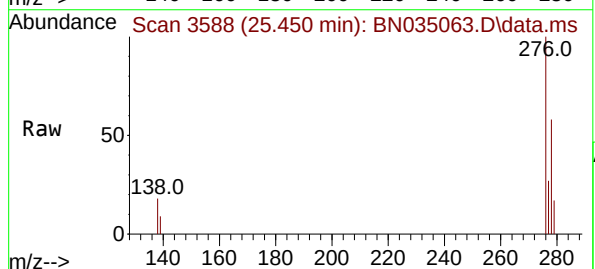
Tgt Ion:276 Resp: 11095

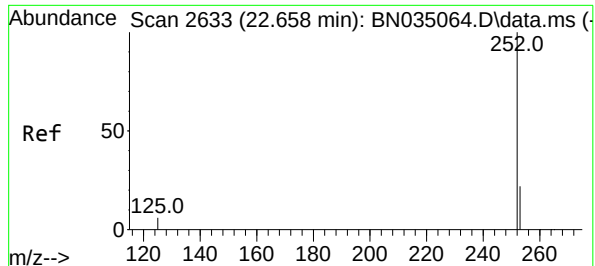
Ion Ratio Lower Upper

276 100

138 17.3 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.189 ng

RT: 22.657 min Scan# 2633

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

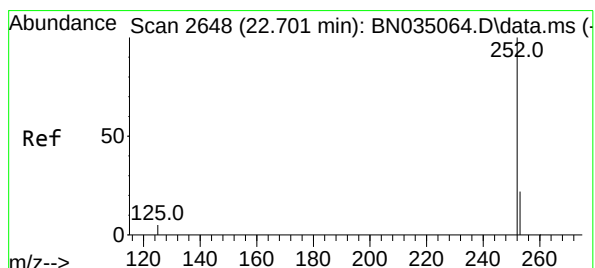
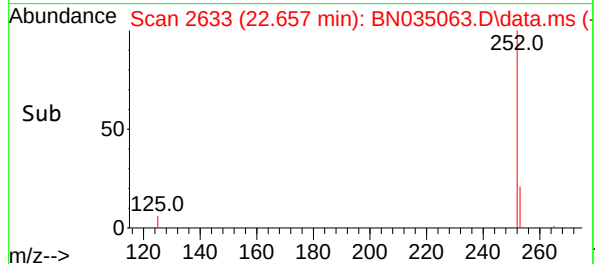
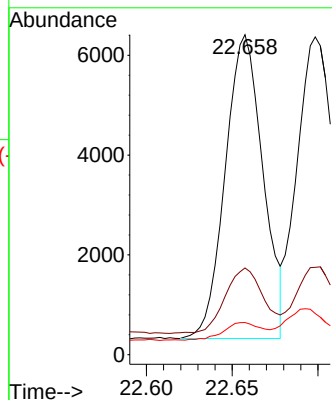
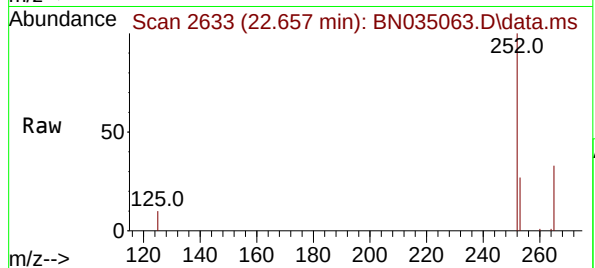
Tgt Ion:252 Resp: 9315

Ion Ratio Lower Upper

252 100

253 27.1 19.3 28.9

125 10.0 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 0.191 ng

RT: 22.698 min Scan# 2647

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

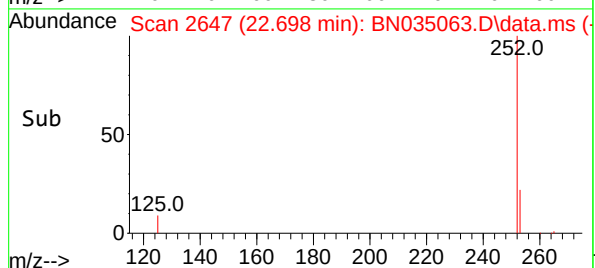
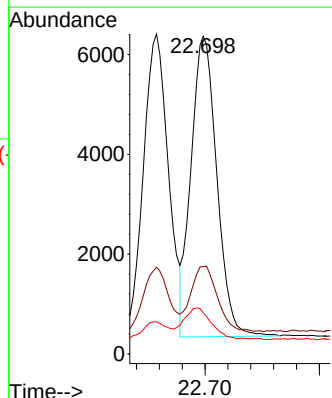
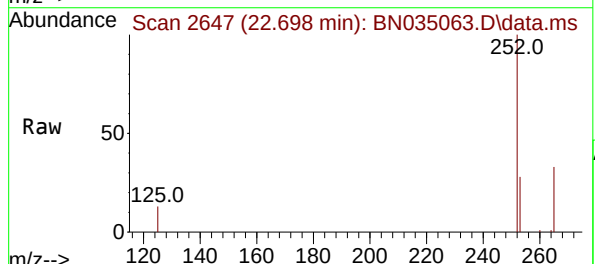
Tgt Ion:252 Resp: 9432

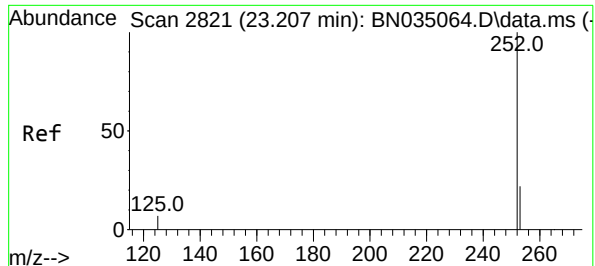
Ion Ratio Lower Upper

252 100

253 27.5 19.5 29.3

125 13.0 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.192 ng

RT: 23.204 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

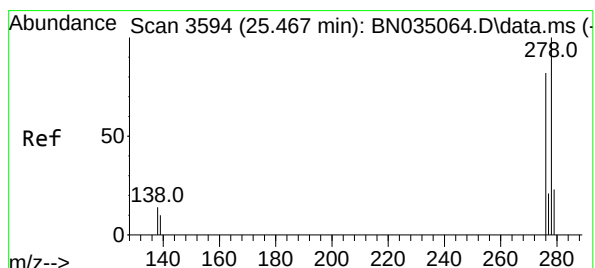
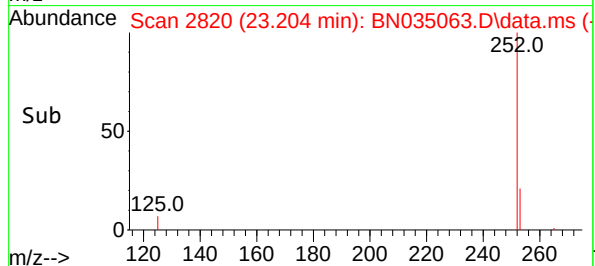
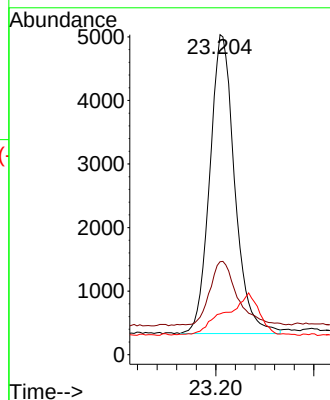
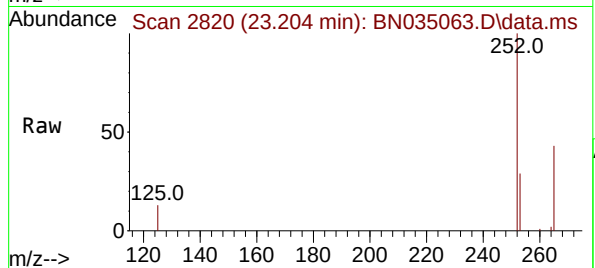
Tgt Ion:252 Resp: 8302

Ion Ratio Lower Upper

252 100

253 29.1 20.1 30.1

125 12.8 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.189 ng

RT: 25.464 min Scan# 3593

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

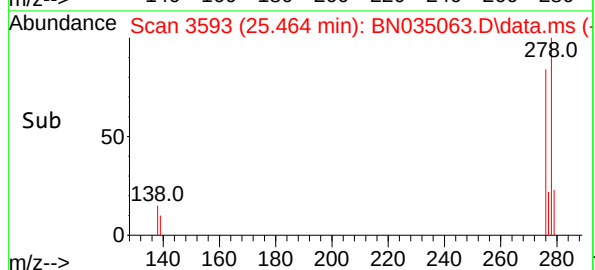
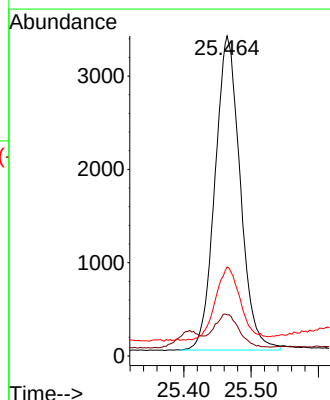
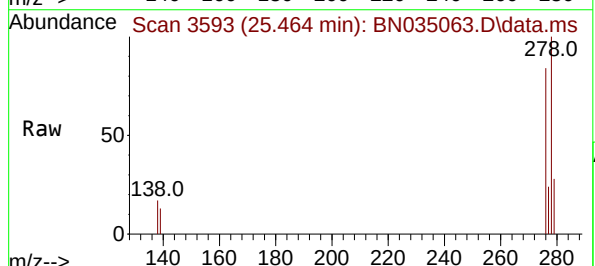
Tgt Ion:278 Resp: 8750

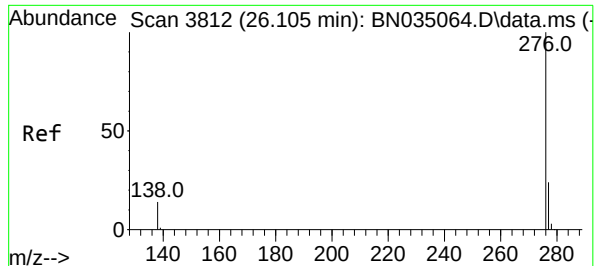
Ion Ratio Lower Upper

278 100

139 12.9 9.3 13.9

279 27.8 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.192 ng

RT: 26.099 min Scan# 3810

Delta R.T. -0.006 min

Lab File: BN035063.D

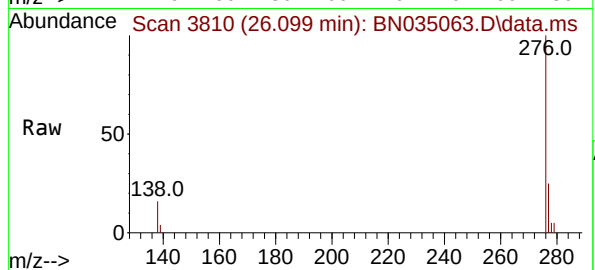
Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



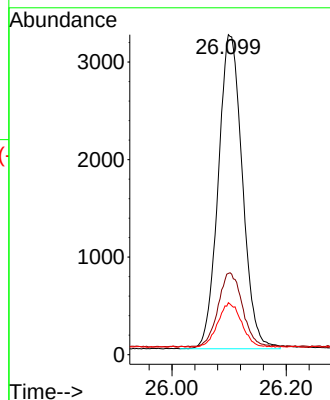
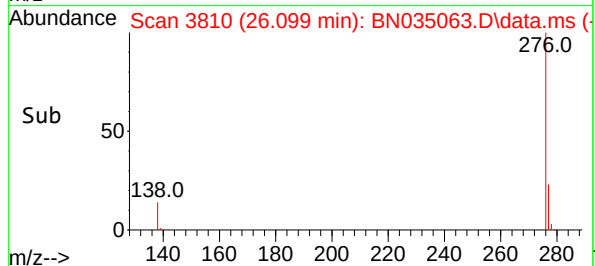
Tgt Ion:276 Resp: 9431

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

138 16.3 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035064.D
 Acq On : 13 Nov 2024 13:52
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Nov 13 16:43:40 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

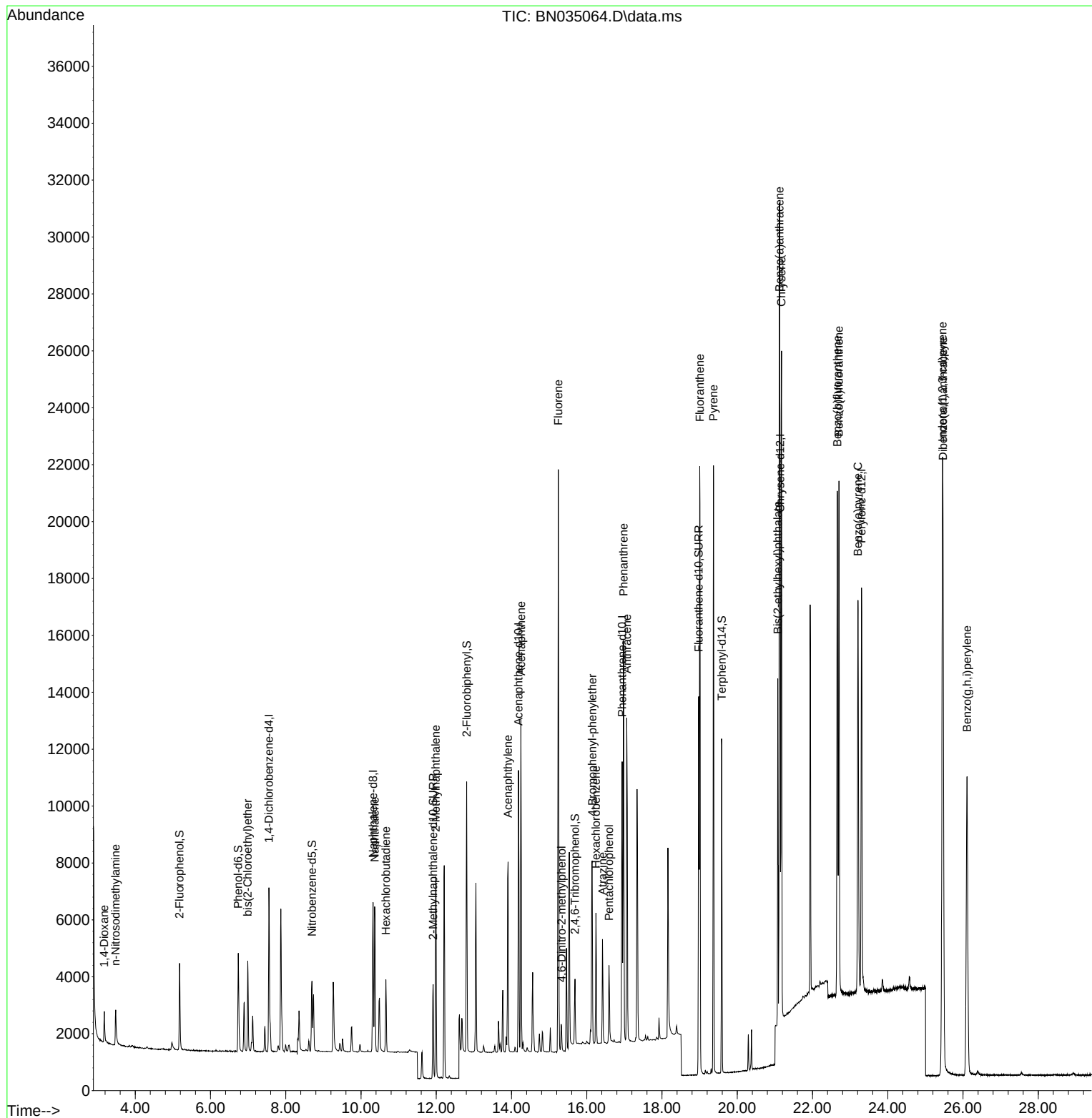
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2804	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6865	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	5401	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	13499	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14946	0.400	ng	0.00
35) Perylene-d12	23.304	264	17077	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2661	0.374	ng	0.00
5) Phenol-d6	6.737	99	3250	0.364	ng	0.00
8) Nitrobenzene-d5	8.696	82	2197	0.369	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4559	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1295	0.333	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7888	0.360	ng	0.00
27) Fluoranthene-d10	18.976	212	15786	0.382	ng	0.00
31) Terphenyl-d14	19.589	244	12101	0.386	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	940	0.369	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.480	42	914	0.386	ng	100
6) bis(2-Chloroethyl)ether	6.990	93	2504	0.374	ng	100
9) Naphthalene	10.362	128	6705	0.374	ng	100
10) Hexachlorobutadiene	10.661	225	2010	0.383	ng	# 100
12) 2-Methylnaphthalene	11.988	142	4884	0.369	ng	100
16) Acenaphthylene	13.908	152	8034	0.348	ng	100
17) Acenaphthene	14.251	154	5401	0.357	ng	100
18) Fluorene	15.245	166	7900	0.355	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	979	0.348	ng	100
21) 4-Bromophenyl-phenylether	16.145	248	3317	0.386	ng	100
22) Hexachlorobenzene	16.244	284	3412	0.382	ng	100
23) Atrazine	16.418	200	2925	0.379	ng	100
24) Pentachlorophenol	16.592	266	1402	0.336	ng	100
25) Phenanthrene	16.977	178	13558	0.382	ng	100
26) Anthracene	17.064	178	12422	0.381	ng	100
28) Fluoranthene	19.004	202	18716	0.383	ng	100
30) Pyrene	19.366	202	19252	0.387	ng	100
32) Benzo(a)anthracene	21.122	228	19844	0.381	ng	100
33) Chrysene	21.176	228	19908	0.386	ng	100
34) Bis(2-ethylhexyl)phtha...	21.077	149	9671	0.357	ng	100
36) Indeno(1,2,3-cd)pyrene	25.453	276	25986	0.381	ng	100
37) Benzo(b)fluoranthene	22.658	252	21843	0.380	ng	100
38) Benzo(k)fluoranthene	22.701	252	21977	0.382	ng	100
39) Benzo(a)pyrene	23.207	252	19170	0.379	ng	100
40) Dibenzo(a,h)anthracene	25.467	278	20655	0.383	ng	100
41) Benzo(g,h,i)perylene	26.105	276	21955	0.382	ng	100

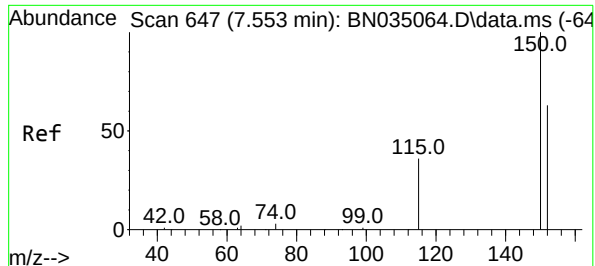
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035064.D
Acq On : 13 Nov 2024 13:52
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 13 16:43:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

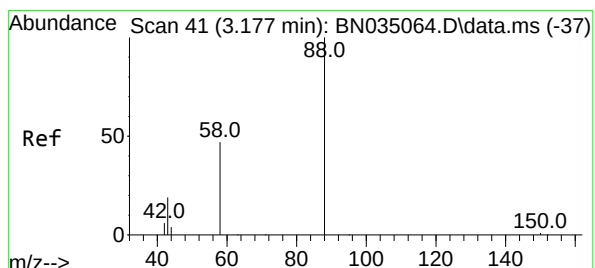
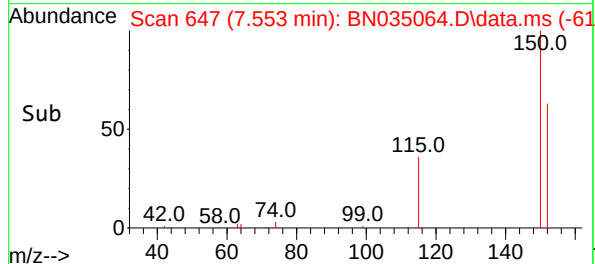
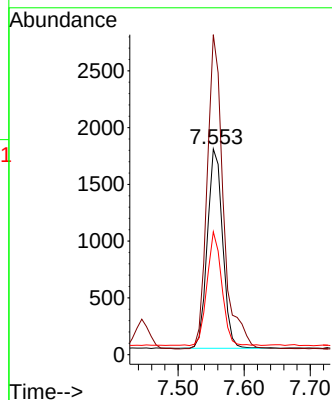
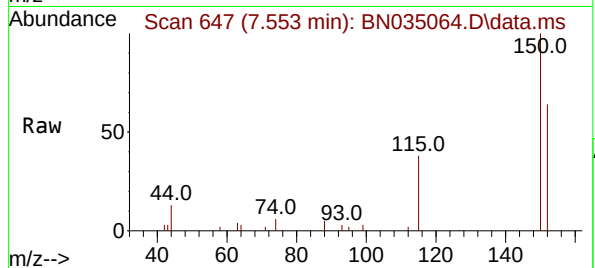




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

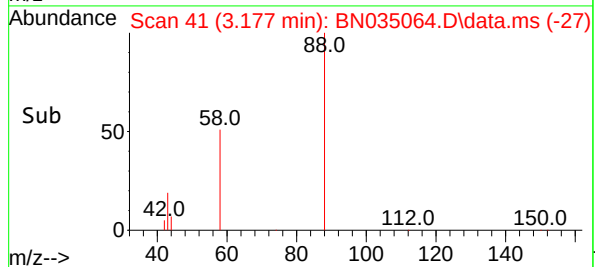
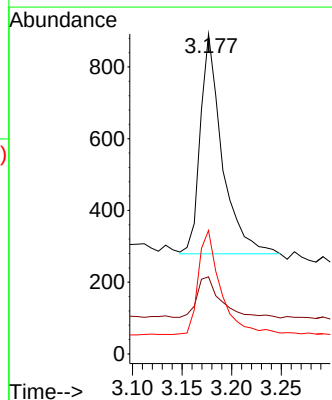
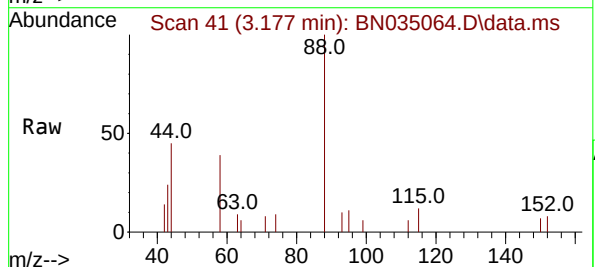
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

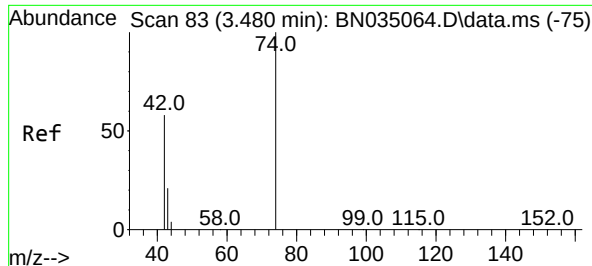
Tgt Ion:152 Resp: 2804
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 59.7 47.8 71.6



#2
1,4-Dioxane
Concen: 0.369 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 88 Resp: 940
Ion Ratio Lower Upper
88 100
43 21.1 16.9 25.3
58 48.7 39.0 58.4

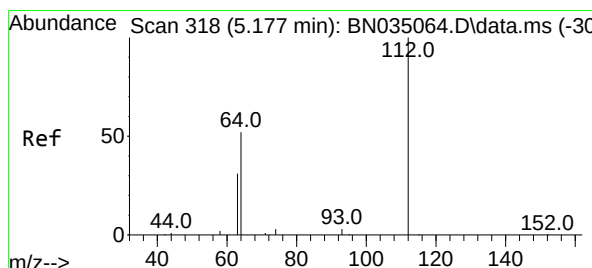
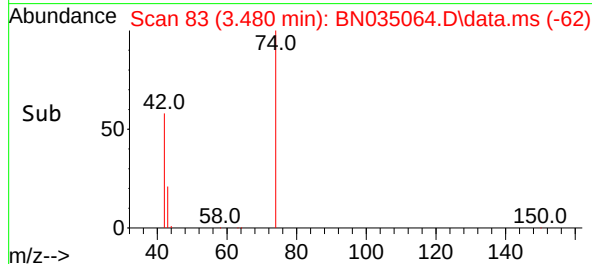
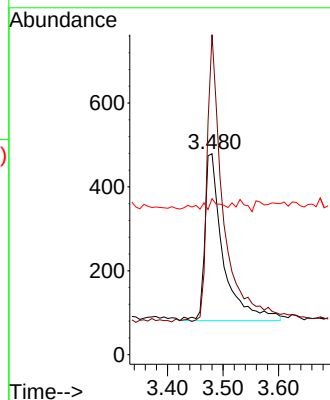
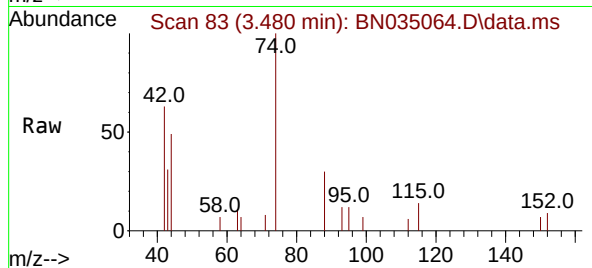




#3
n-Nitrosodimethylamine
Concen: 0.386 ng
RT: 3.480 min Scan# 83
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

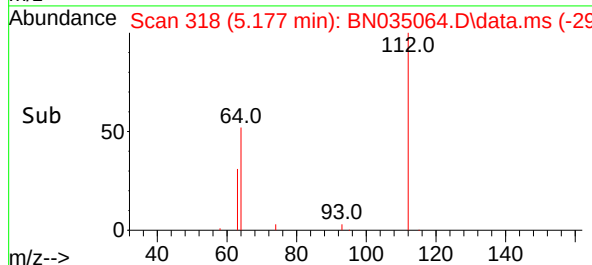
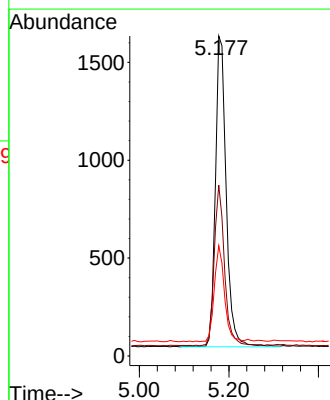
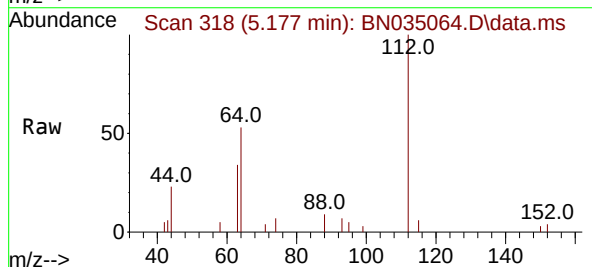
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

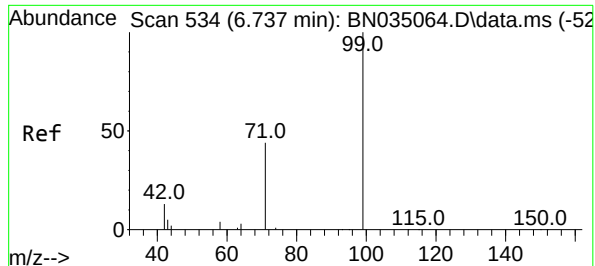
Tgt Ion: 42 Resp: 914
Ion Ratio Lower Upper
42 100
74 151.0 120.8 181.2
44 3.6 2.9 4.3



#4
2-Fluorophenol
Concen: 0.374 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 112 Resp: 2661
Ion Ratio Lower Upper
112 100
64 49.6 39.7 59.5
63 28.7 23.0 34.4

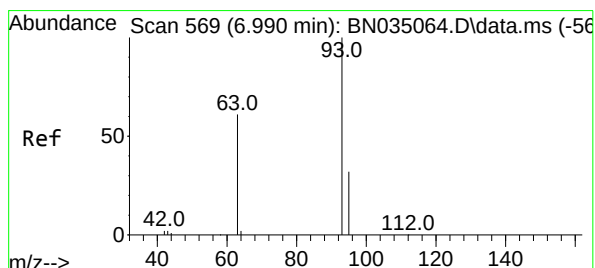
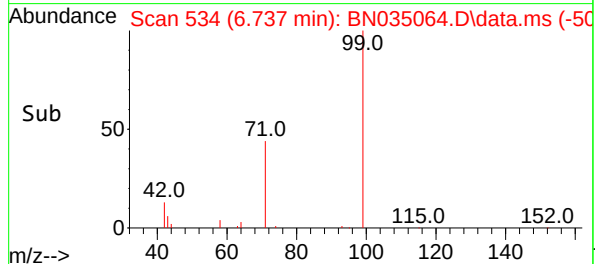
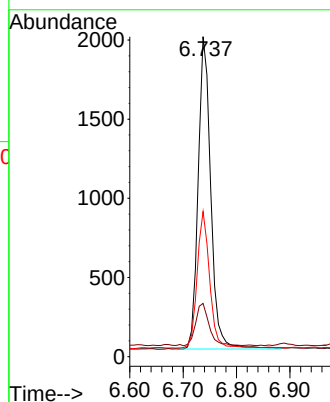
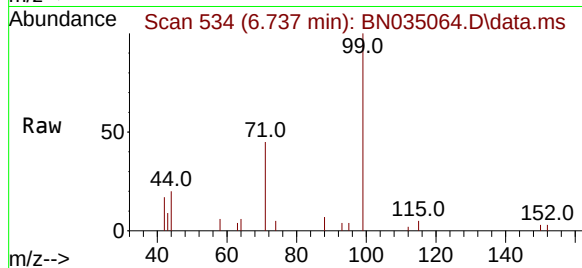




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.737 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

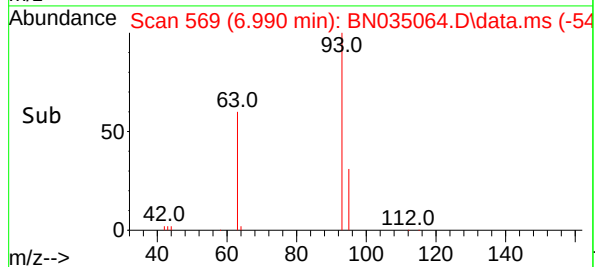
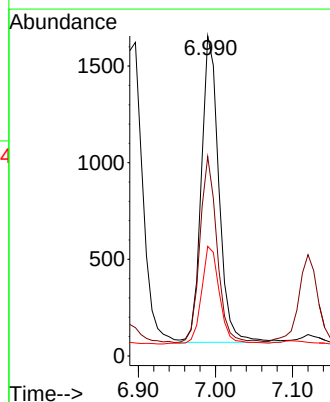
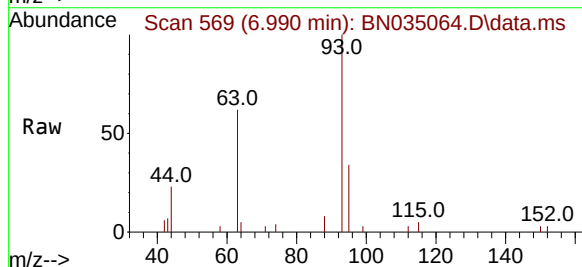
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

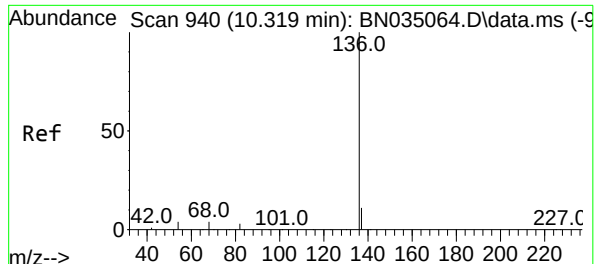
Tgt Ion: 99 Resp: 3250
Ion Ratio Lower Upper
99 100
42 14.2 11.4 17.0
71 43.2 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 93 Resp: 2504
Ion Ratio Lower Upper
93 100
63 59.3 47.4 71.2
95 32.8 26.2 39.4

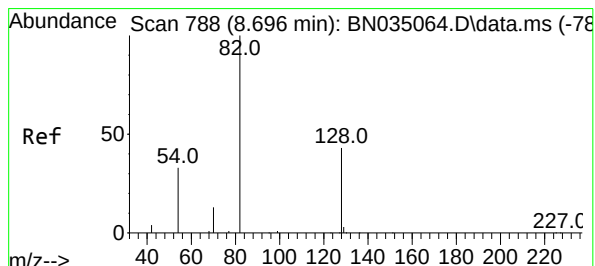
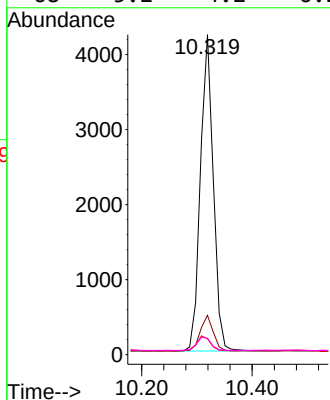
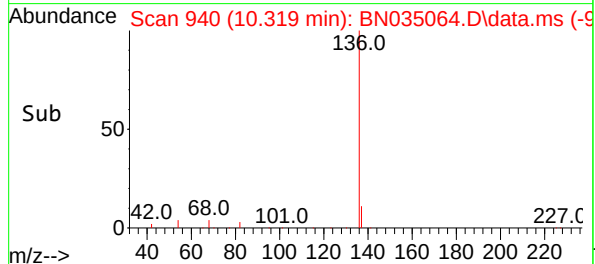
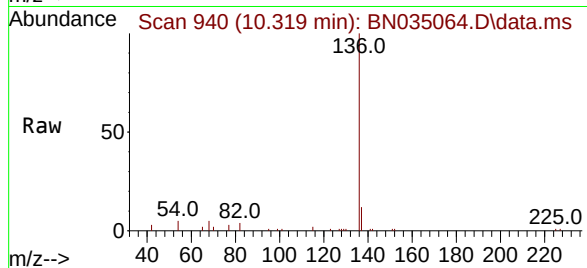




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

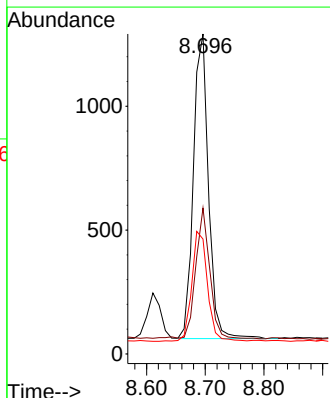
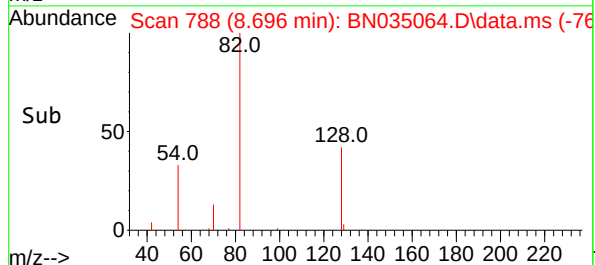
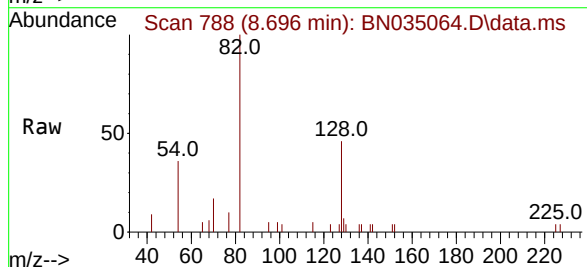
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

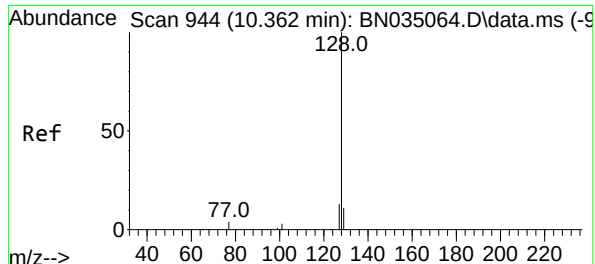
Tgt Ion:	136	Resp:	6865
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:	82	Resp:	2197
Ion	Ratio	Lower	Upper
82	100		
128	45.6	36.5	54.7
54	35.9	28.7	43.1

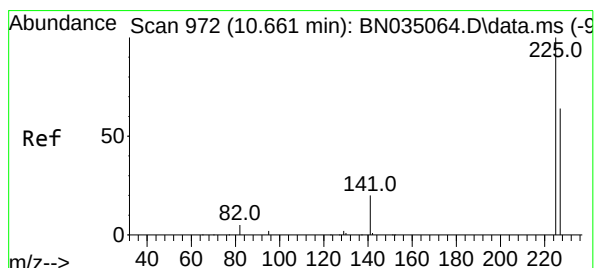
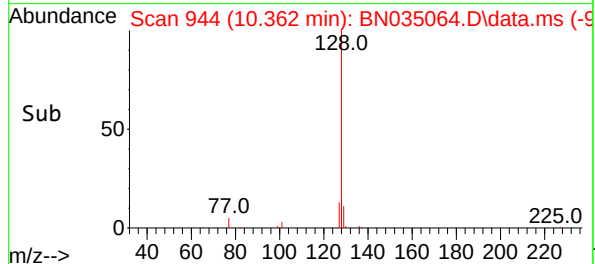
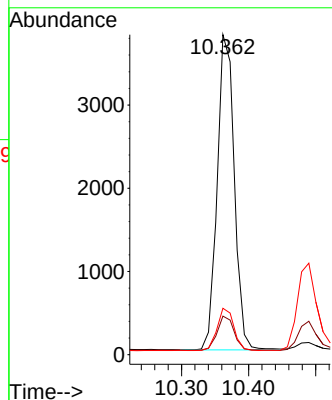
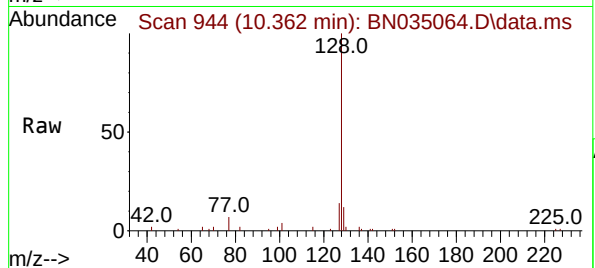




#9
Naphthalene
Concen: 0.374 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

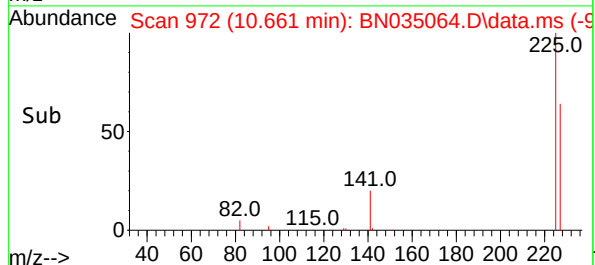
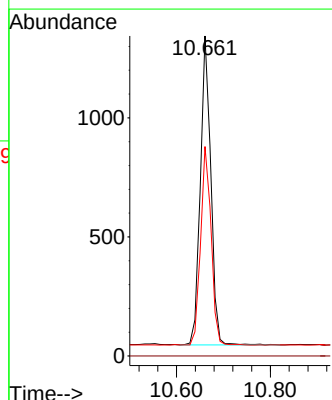
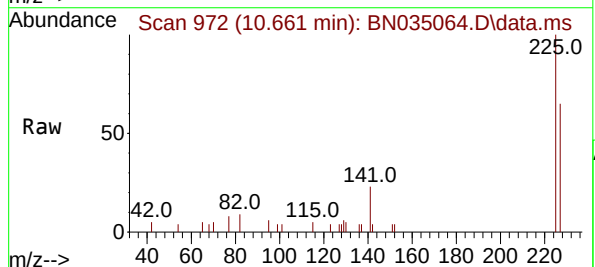
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

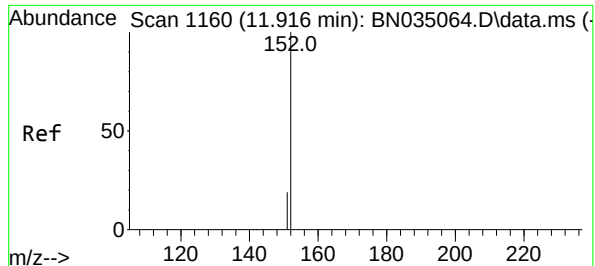
Tgt Ion:128 Resp: 6705
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 14.5 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:225 Resp: 2010
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.5 77.3





#11

2-Methylnaphthalene-d10

Concen: 0.373 ng

RT: 11.916 min Scan# 1160

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

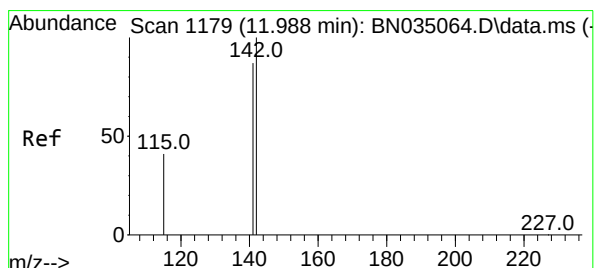
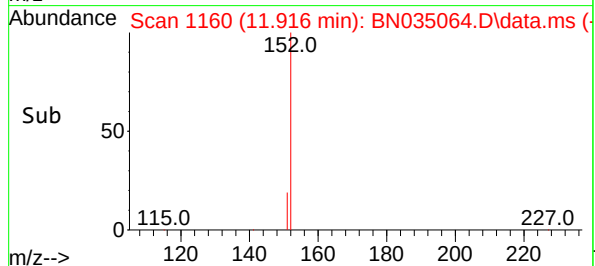
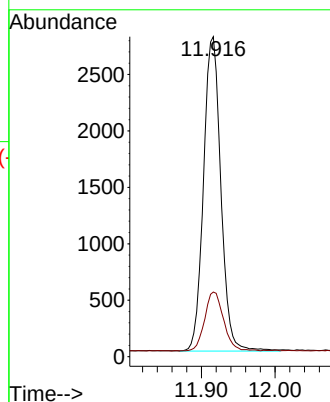
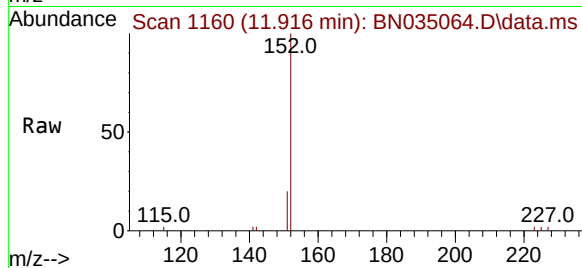
SSTDICCC0.4

Tgt Ion:152 Resp: 4559

Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4



#12

2-Methylnaphthalene

Concen: 0.369 ng

RT: 11.988 min Scan# 1179

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

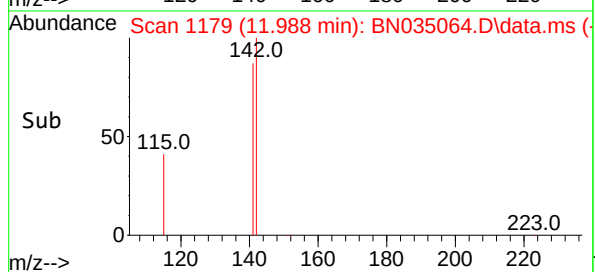
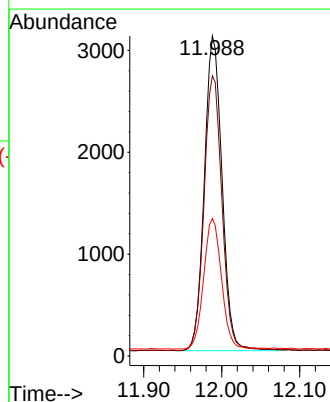
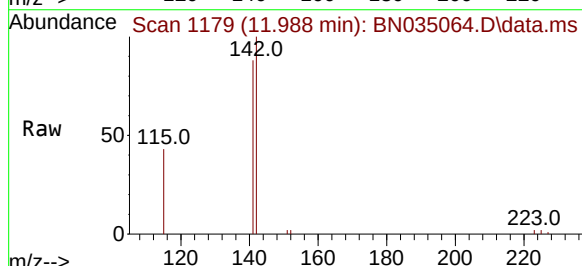
Tgt Ion:142 Resp: 4884

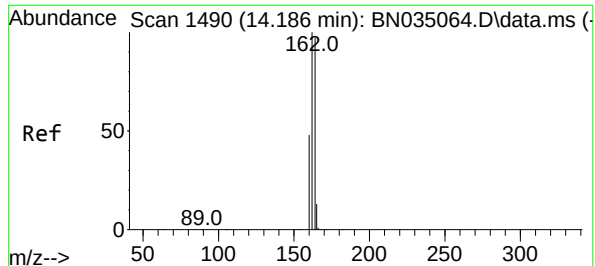
Ion Ratio Lower Upper

142 100

141 87.6 70.1 105.1

115 43.0 34.4 51.6

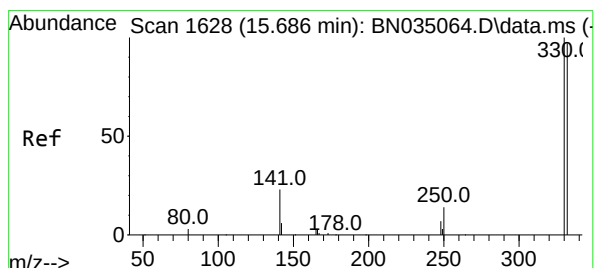
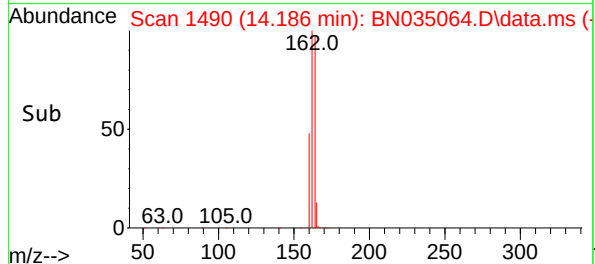
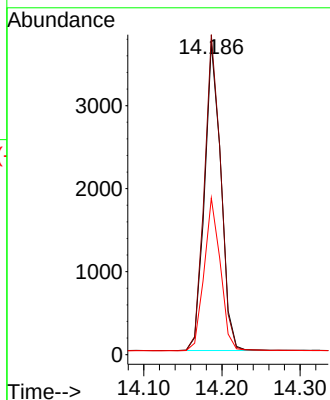
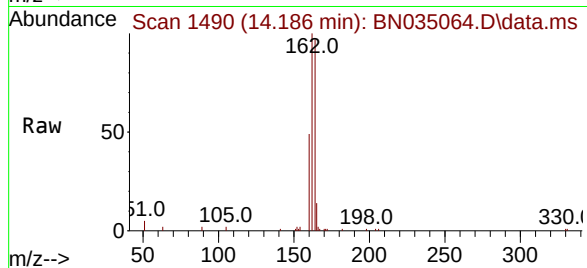




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

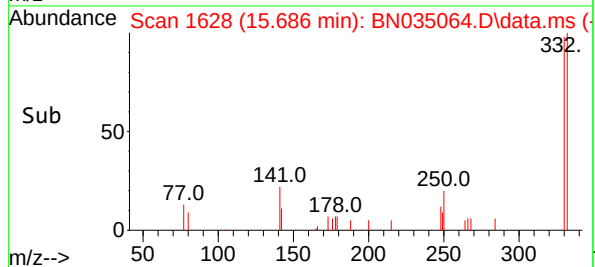
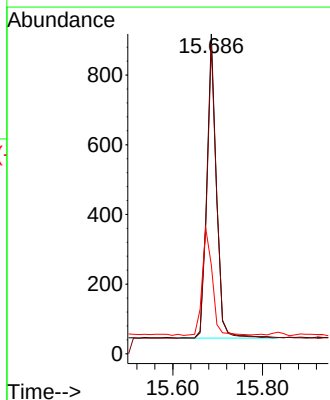
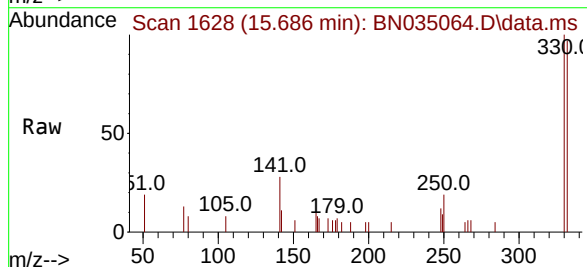
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

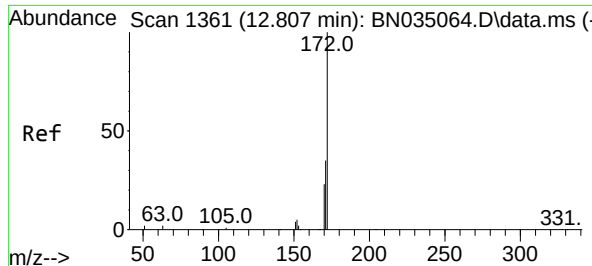
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.3	40.2	60.4



#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.9	115.3
141	37.0	29.6	44.4





#15

2-Fluorobiphenyl

Concen: 0.360 ng

RT: 12.807 min Scan# 1361

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

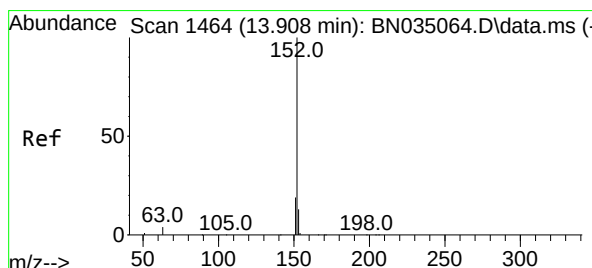
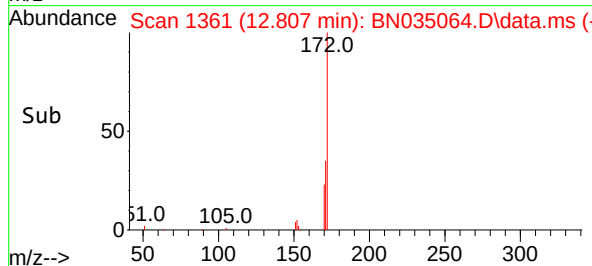
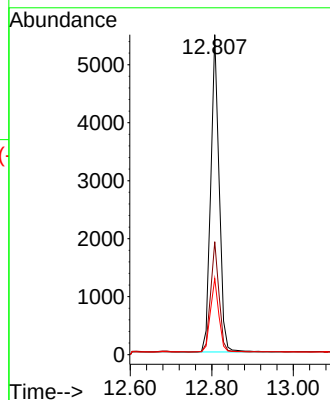
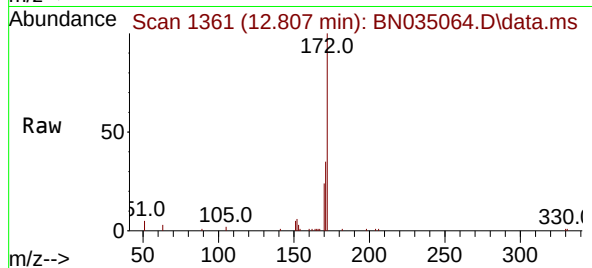
Tgt Ion:172 Resp: 7888

Ion Ratio Lower Upper

172 100

171 35.3 28.2 42.4

170 23.8 19.0 28.6



#16

Acenaphthylene

Concen: 0.348 ng

RT: 13.908 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

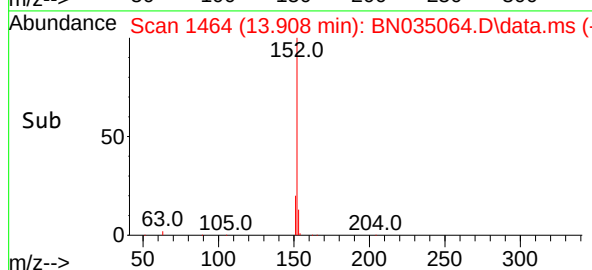
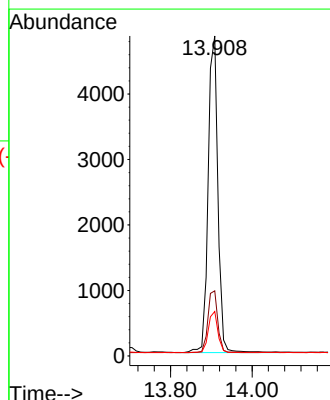
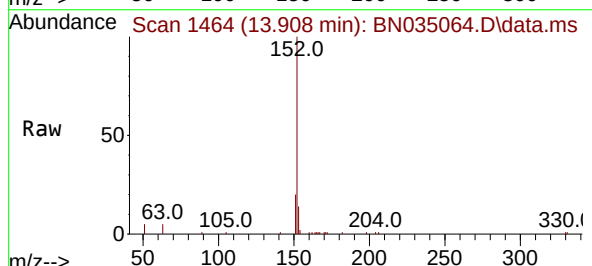
Tgt Ion:152 Resp: 8034

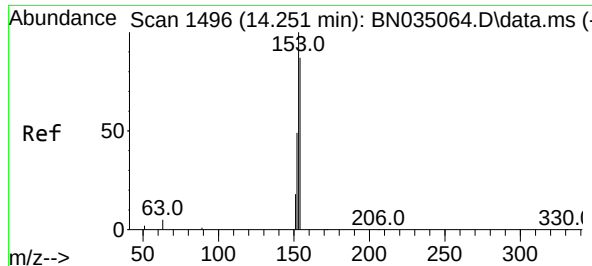
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 12.8 10.2 15.4





#17

Acenaphthene

Concen: 0.357 ng

RT: 14.251 min Scan# 1496

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

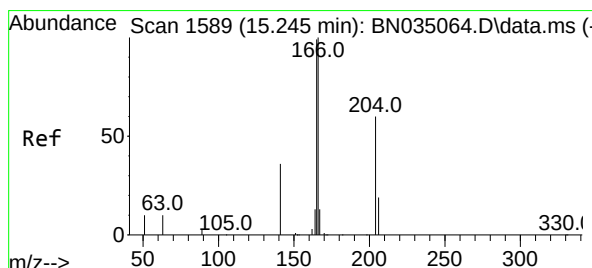
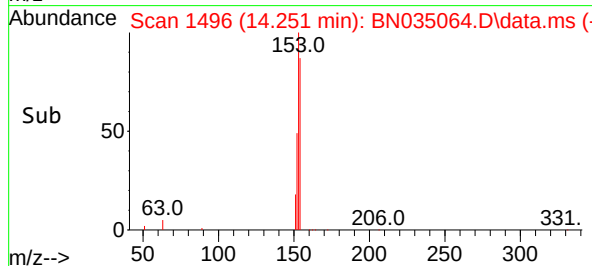
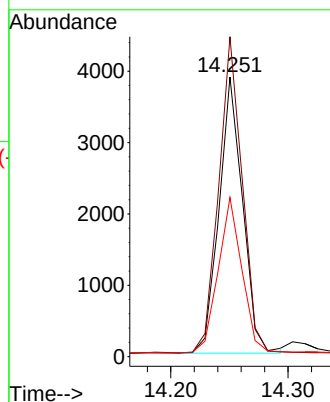
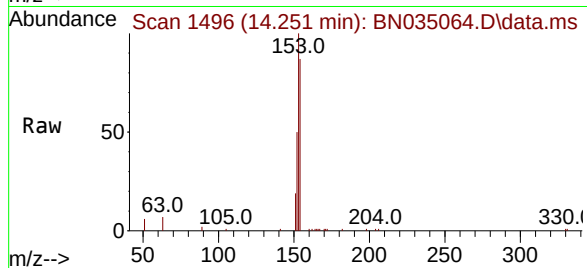
Tgt Ion:154 Resp: 5401

Ion Ratio Lower Upper

154 100

153 114.5 91.6 137.4

152 57.2 45.8 68.6



#18

Fluorene

Concen: 0.355 ng

RT: 15.245 min Scan# 1589

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

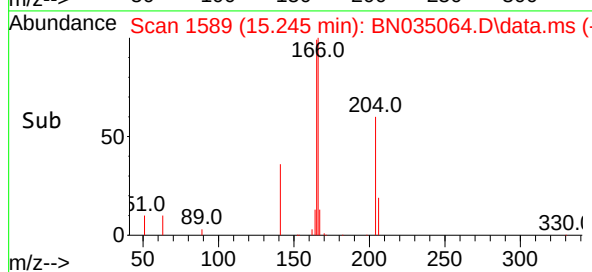
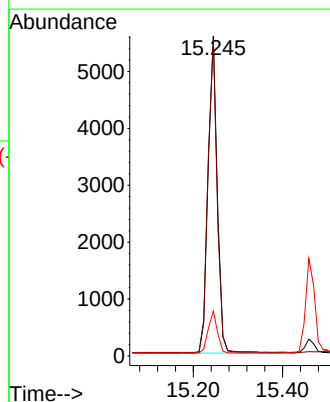
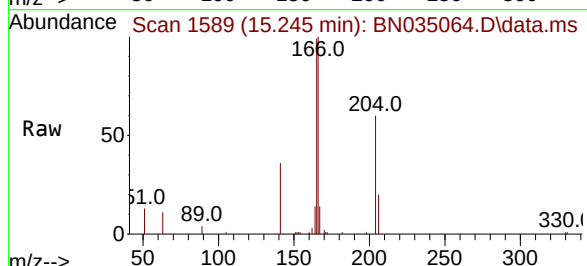
Tgt Ion:166 Resp: 7900

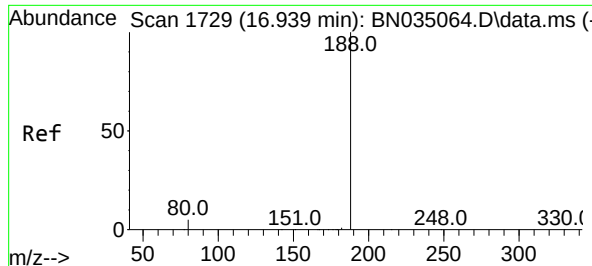
Ion Ratio Lower Upper

166 100

165 98.9 79.1 118.7

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

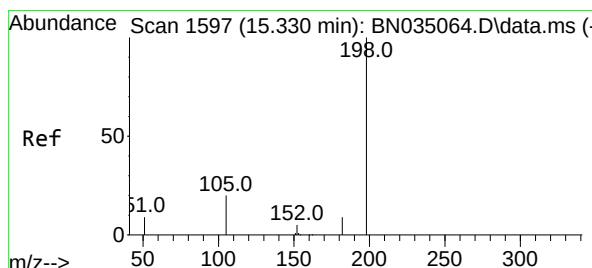
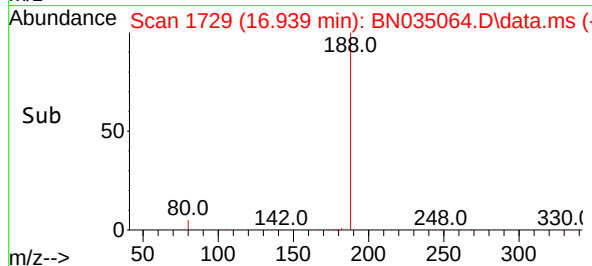
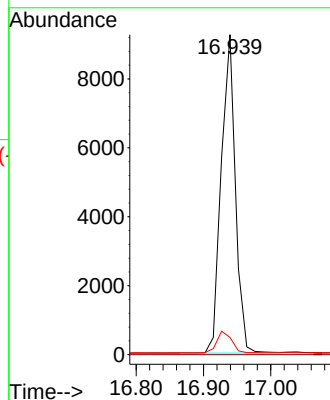
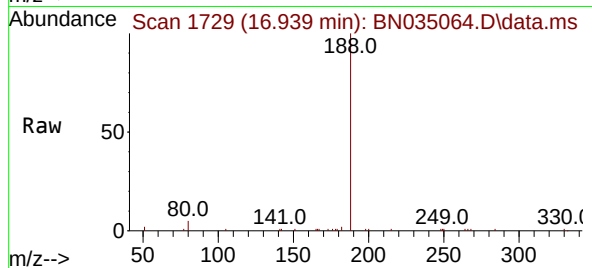
Tgt Ion:188 Resp: 13499

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.4 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.348 ng

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

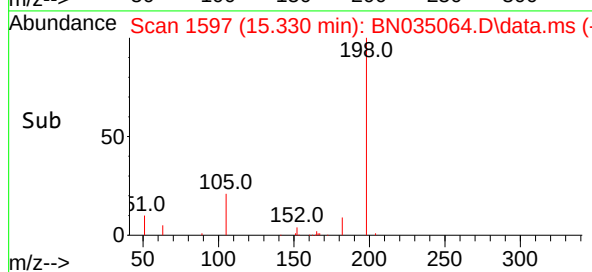
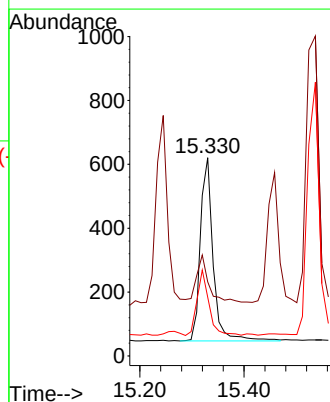
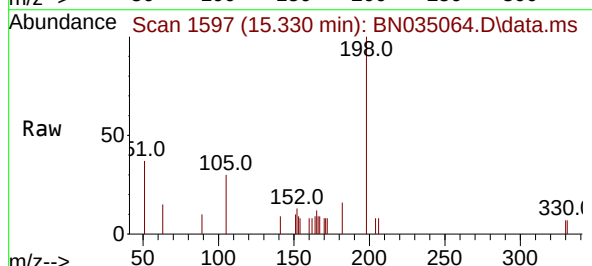
Tgt Ion:198 Resp: 979

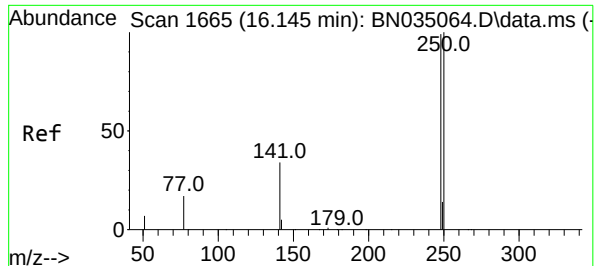
Ion Ratio Lower Upper

198 100

51 37.4 29.9 44.9

105 29.6 23.7 35.5

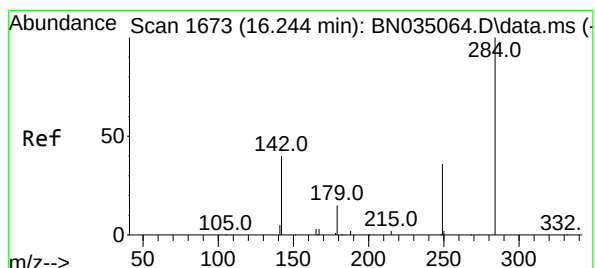
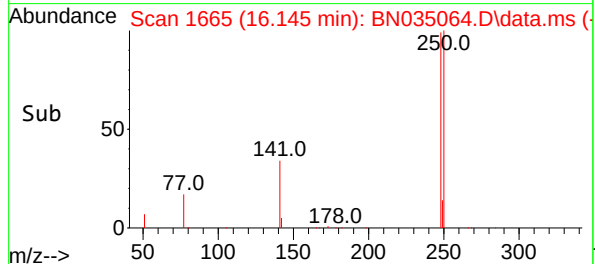
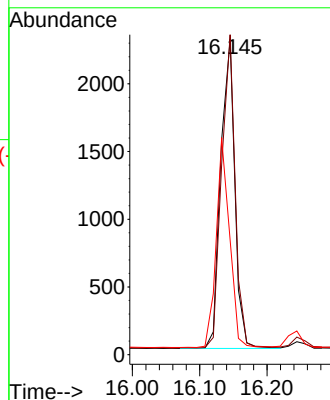
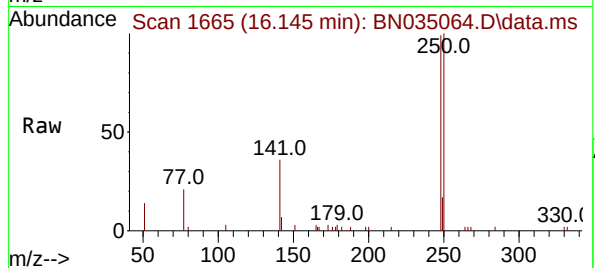




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.145 min Scan# 1665
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

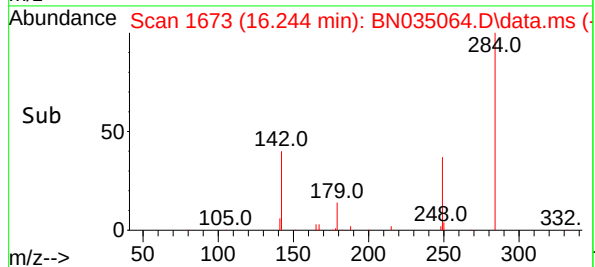
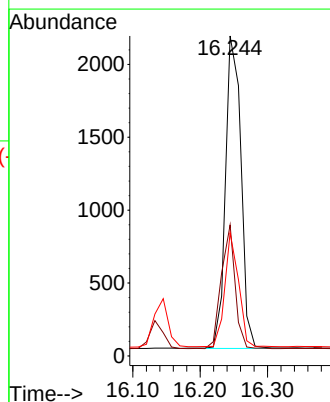
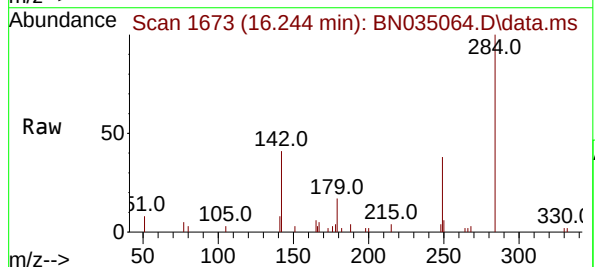
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

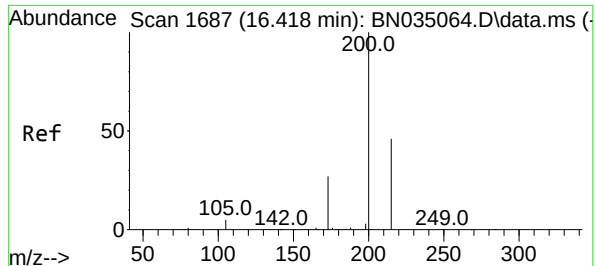
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	81.2	121.8
141	36.4	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.382 ng
RT: 16.244 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.2	42.4
249	32.7	26.2	39.2

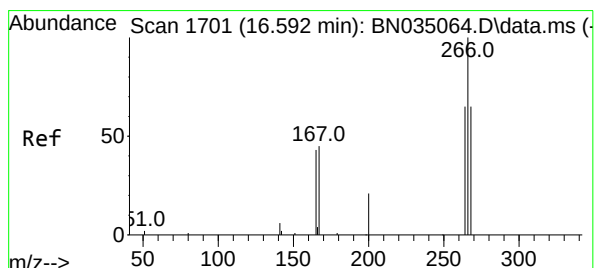
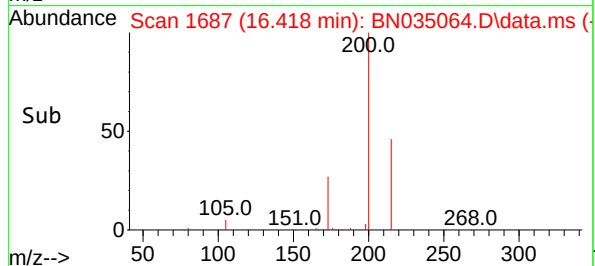
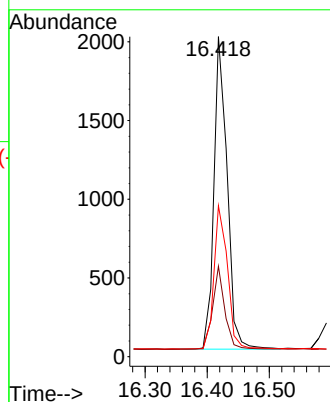
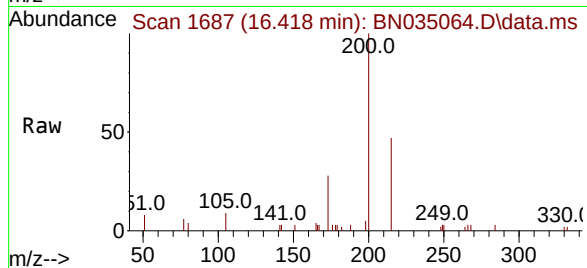




#23
Atrazine
Concen: 0.379 ng
RT: 16.418 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

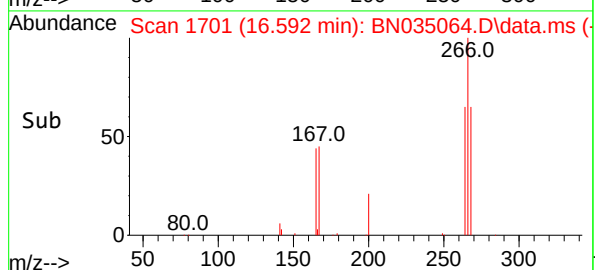
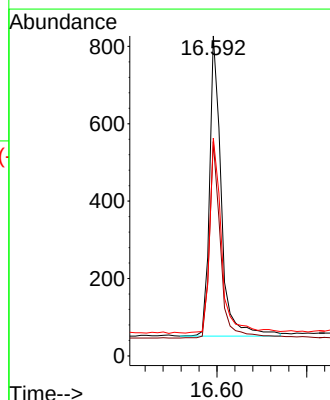
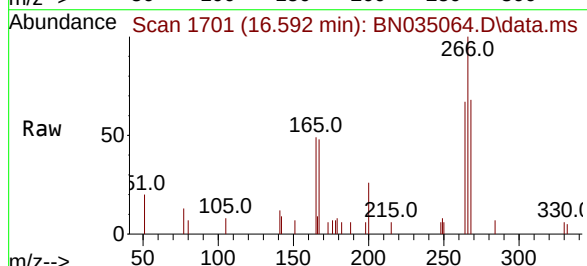
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

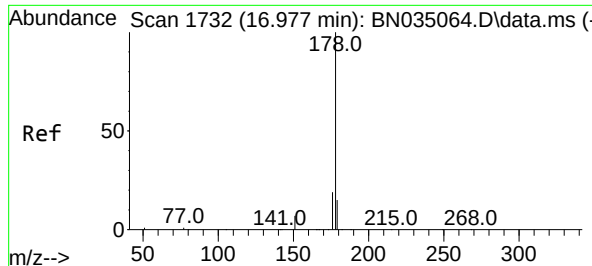
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.2	22.6	33.8
215	47.2	37.8	56.6



#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.592 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.7	49.4	74.0
268	65.8	52.6	79.0





#25

Phenanthrene

Concen: 0.382 ng

RT: 16.977 min Scan# 1732

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

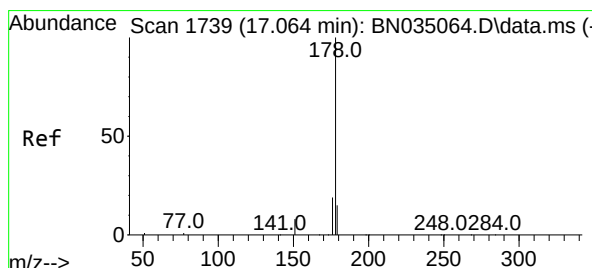
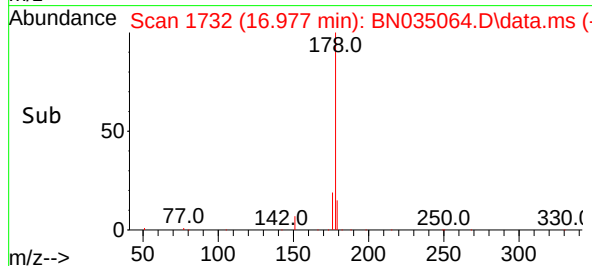
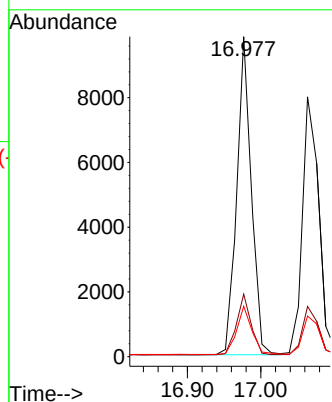
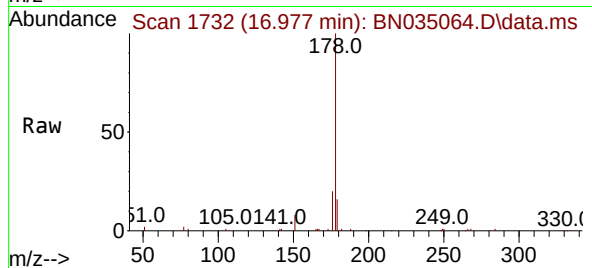
Tgt Ion:178 Resp: 13558

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 15.7 12.6 18.8



#26

Anthracene

Concen: 0.381 ng

RT: 17.064 min Scan# 1739

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

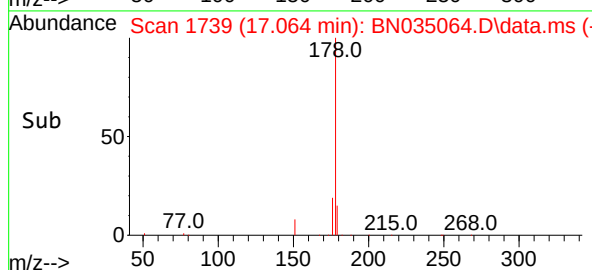
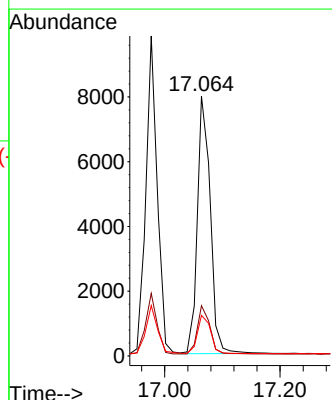
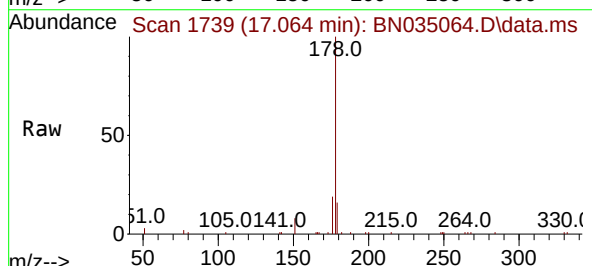
Tgt Ion:178 Resp: 12422

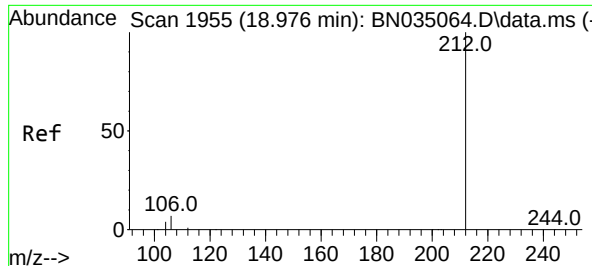
Ion Ratio Lower Upper

178 100

176 18.3 14.6 22.0

179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.382 ng

RT: 18.976 min Scan# 1955

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

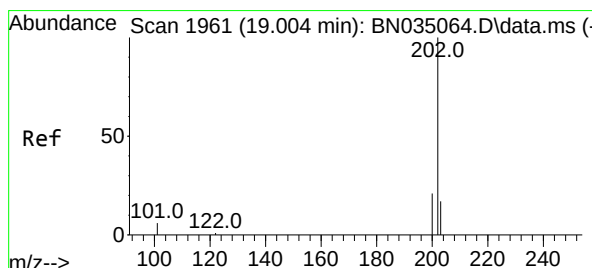
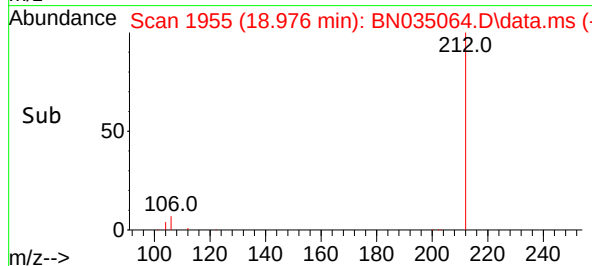
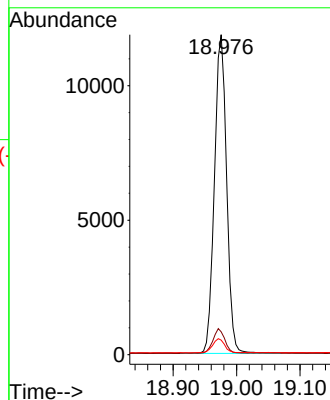
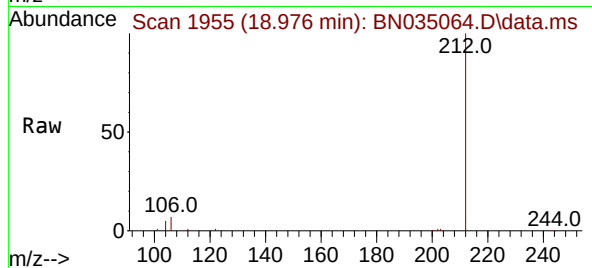
Tgt Ion:212 Resp: 15786

Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.383 ng

RT: 19.004 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

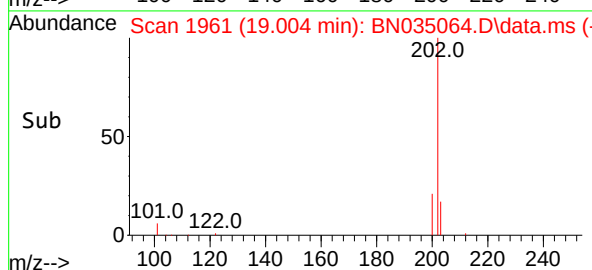
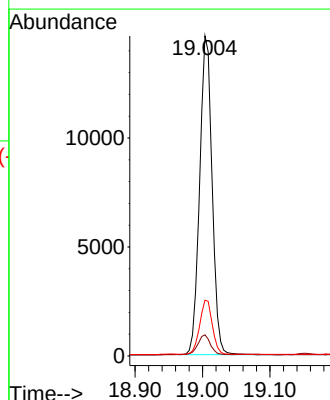
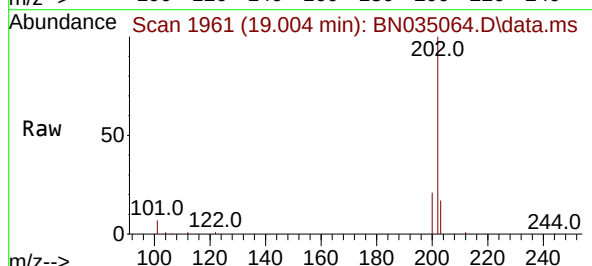
Tgt Ion:202 Resp: 18716

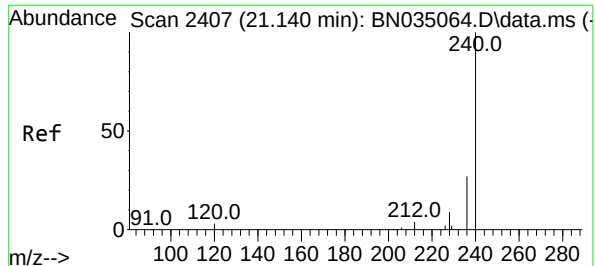
Ion Ratio Lower Upper

202 100

101 6.5 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

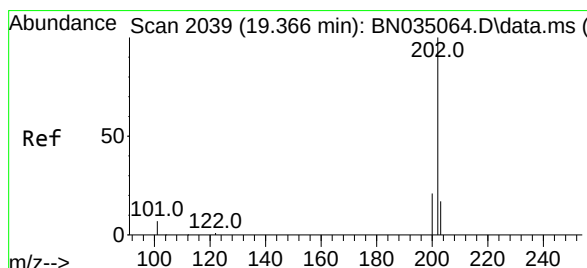
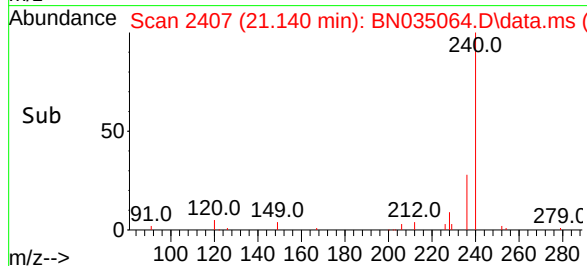
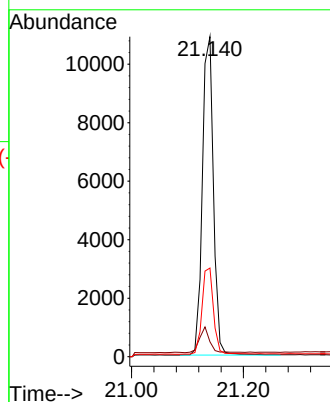
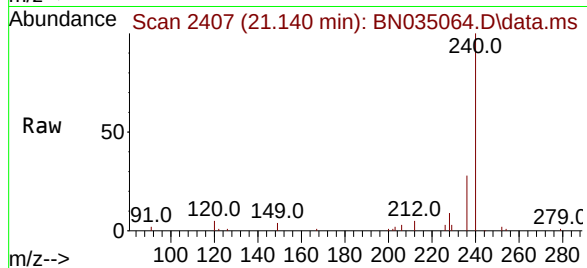
Tgt Ion:240 Resp: 14946

Ion Ratio Lower Upper

240 100

120 4.7 3.8 5.6

236 27.7 22.2 33.2



#30

Pyrene

Concen: 0.387 ng

RT: 19.366 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

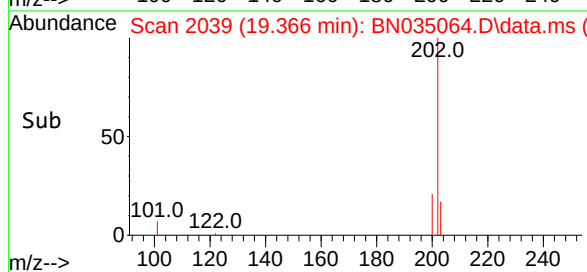
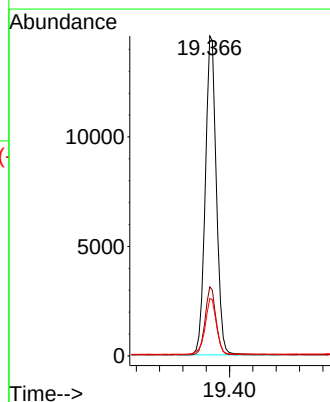
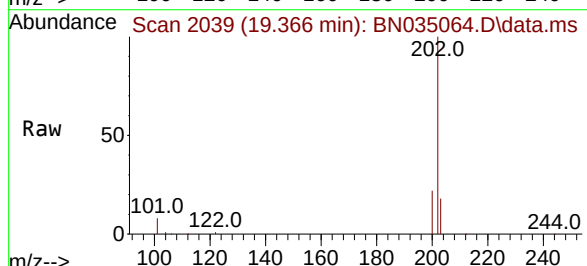
Tgt Ion:202 Resp: 19252

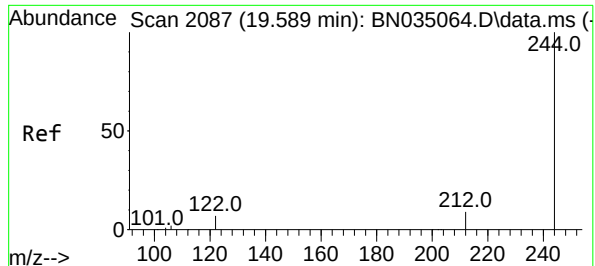
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

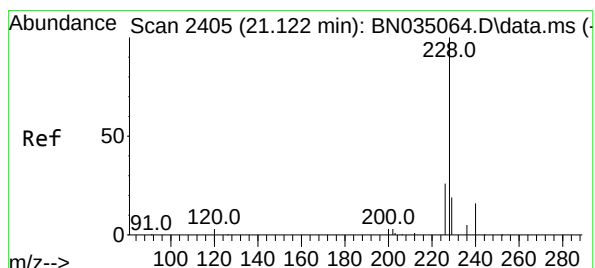
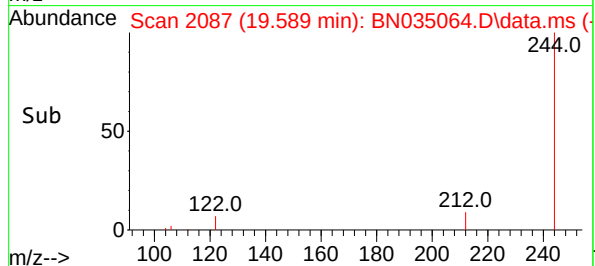
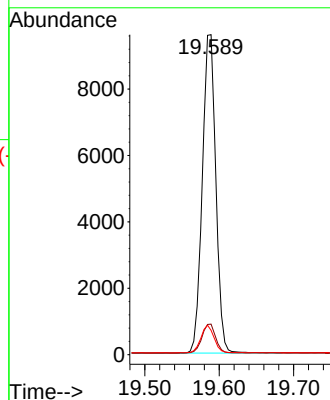
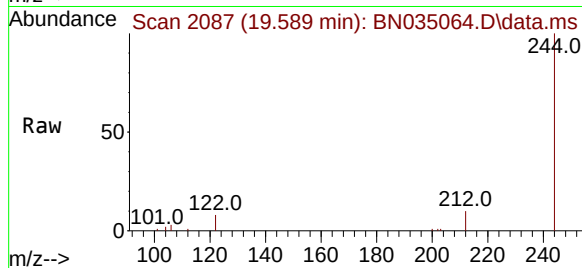




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.589 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

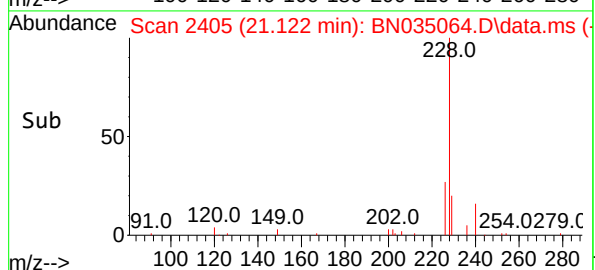
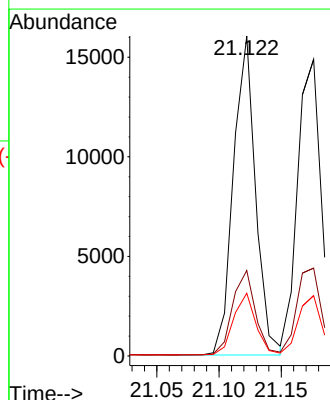
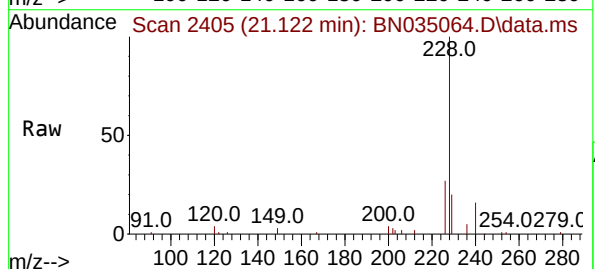
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

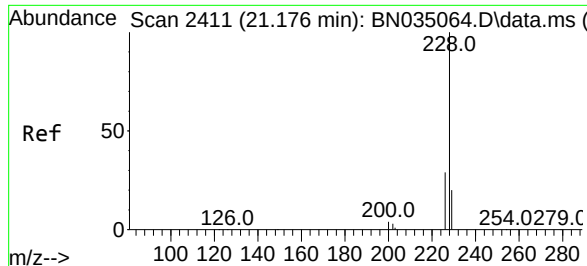
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	7.6	6.1	9.1



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.122 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.4	32.0
229	19.6	15.7	23.5





#33

Chrysene

Concen: 0.386 ng

RT: 21.176 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

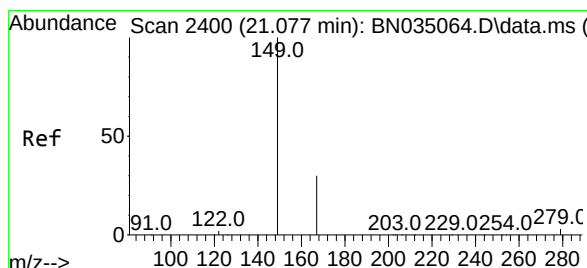
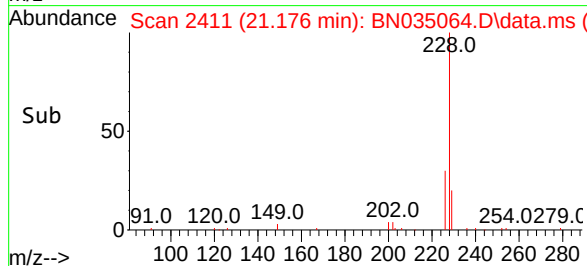
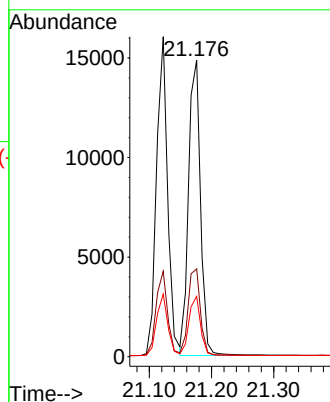
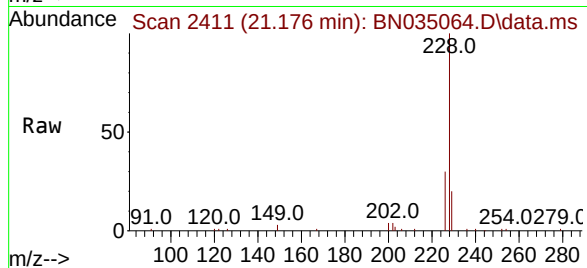
Tgt Ion:228 Resp: 19908

Ion Ratio Lower Upper

228 100

226 29.6 23.7 35.5

229 20.3 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.357 ng

RT: 21.077 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

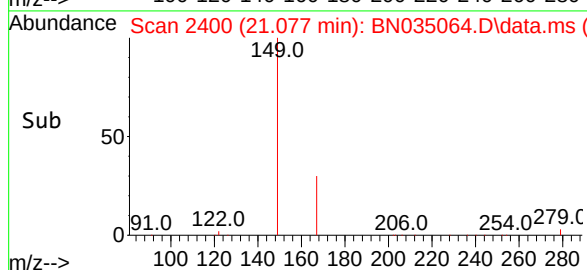
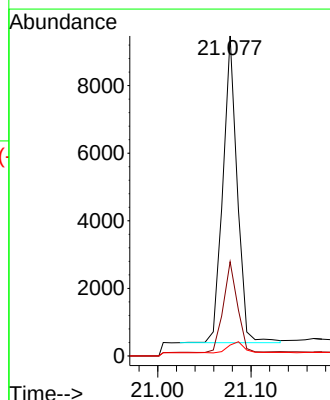
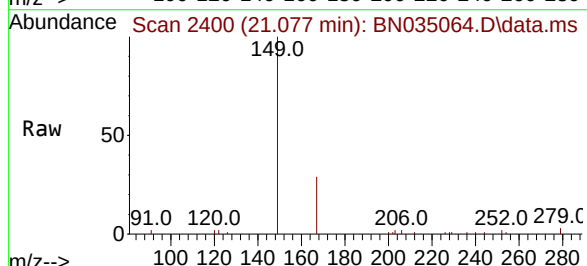
Tgt Ion:149 Resp: 9671

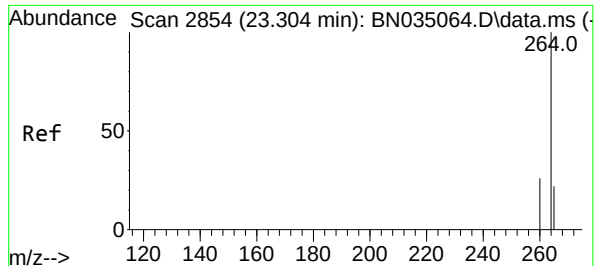
Ion Ratio Lower Upper

149 100

167 29.0 23.2 34.8

279 4.0 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

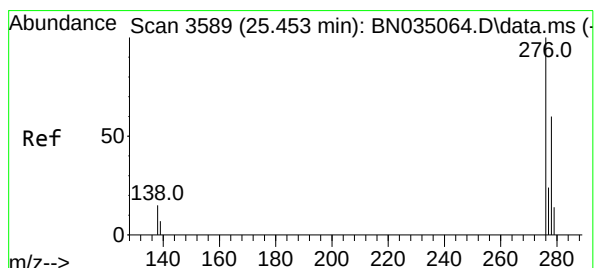
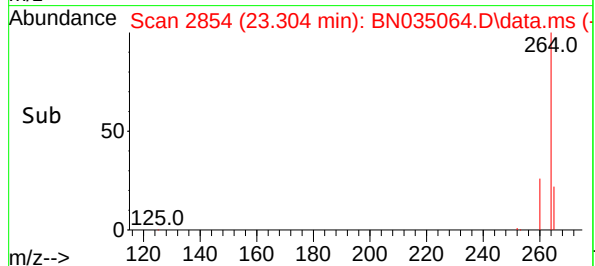
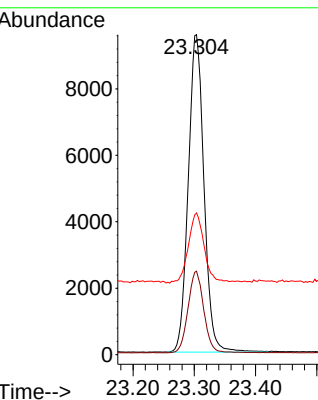
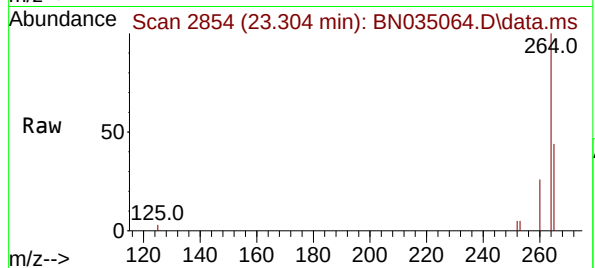
Tgt Ion:264 Resp: 17077

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 44.3 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.381 ng

RT: 25.453 min Scan# 3589

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

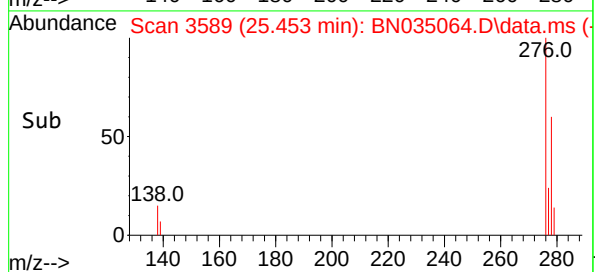
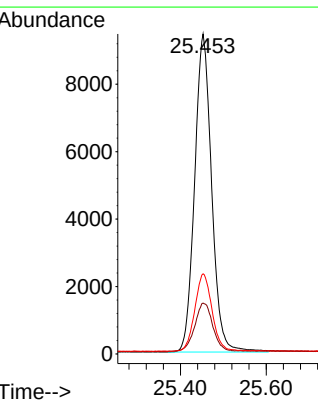
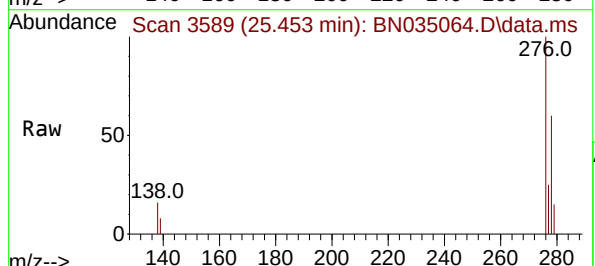
Tgt Ion:276 Resp: 25986

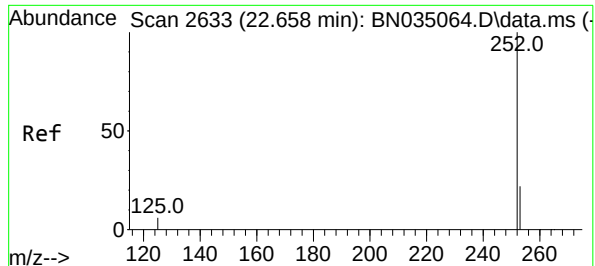
Ion Ratio Lower Upper

276 100

138 16.2 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.380 ng

RT: 22.658 min Scan# 2633

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

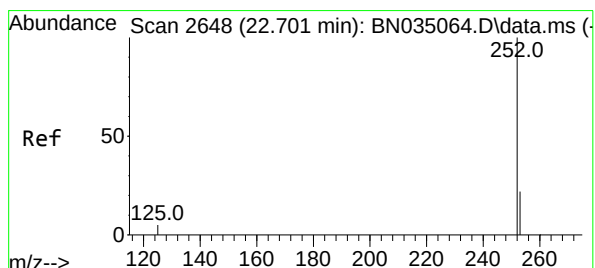
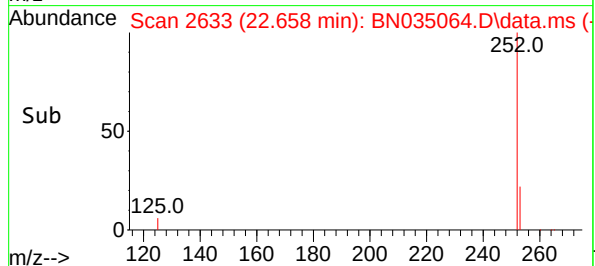
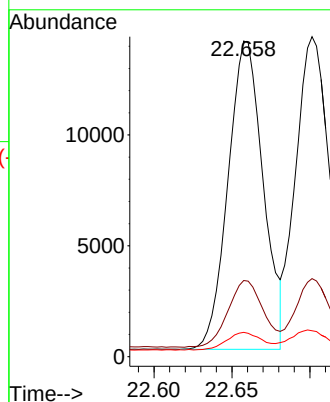
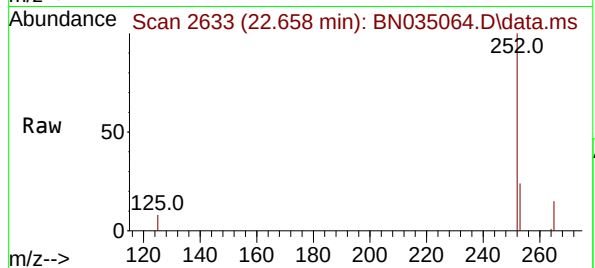
Tgt Ion:252 Resp: 21843

Ion Ratio Lower Upper

252 100

253 24.1 19.3 28.9

125 7.7 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 22.701 min Scan# 2648

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

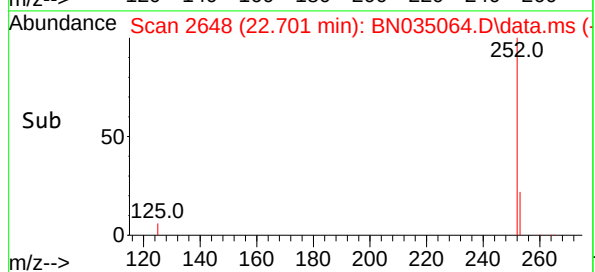
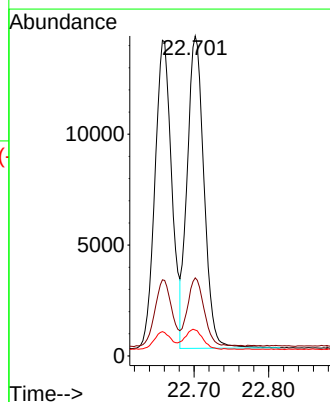
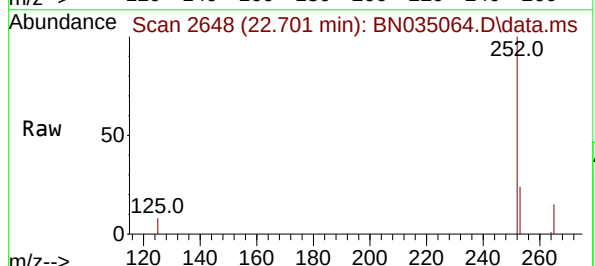
Tgt Ion:252 Resp: 21977

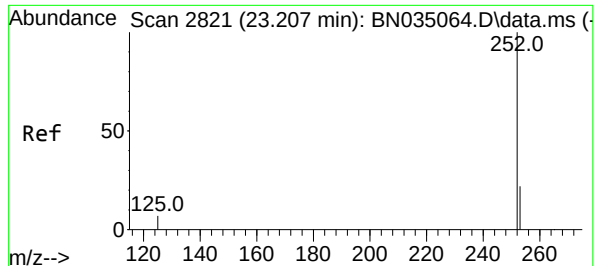
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 8.1 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.207 min Scan# 2821

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

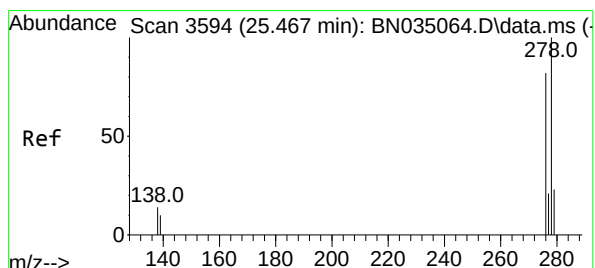
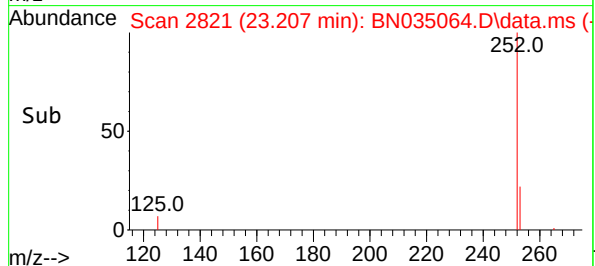
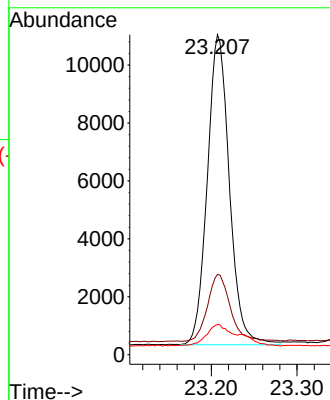
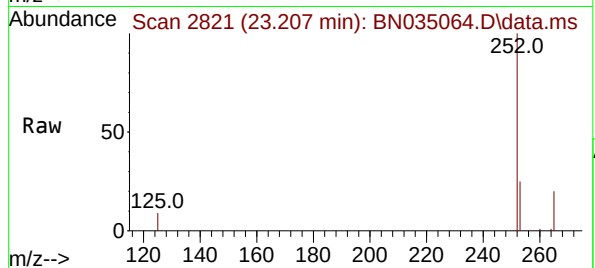
Tgt Ion:252 Resp: 19170

Ion Ratio Lower Upper

252 100

253 25.1 20.1 30.1

125 9.4 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.383 ng

RT: 25.467 min Scan# 3594

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

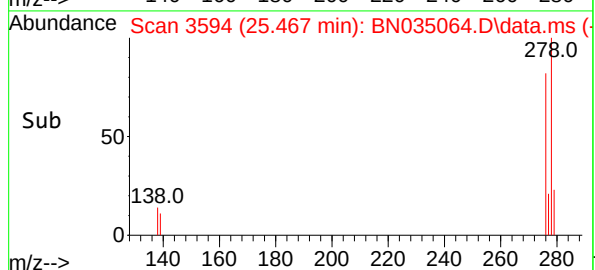
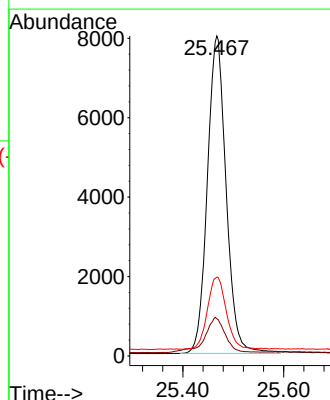
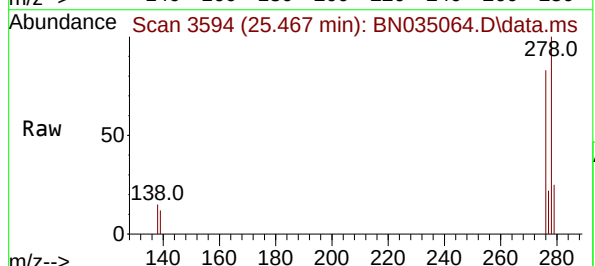
Tgt Ion:278 Resp: 20655

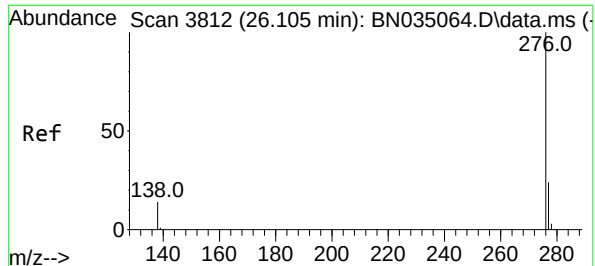
Ion Ratio Lower Upper

278 100

139 11.6 9.3 13.9

279 24.6 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 26.105 min Scan# 3812

Delta R.T. 0.000 min

Lab File: BN035064.D

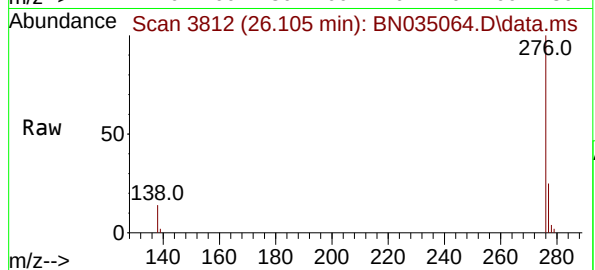
Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



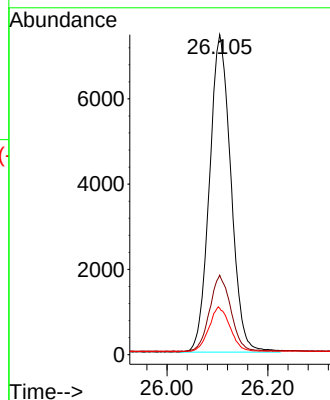
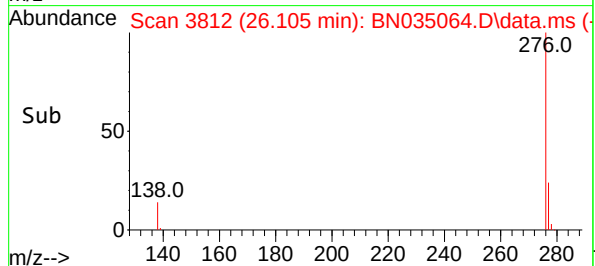
Tgt Ion:276 Resp: 21955

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

138 14.5 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035065.D
 Acq On : 13 Nov 2024 14:28
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Nov 13 16:44:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

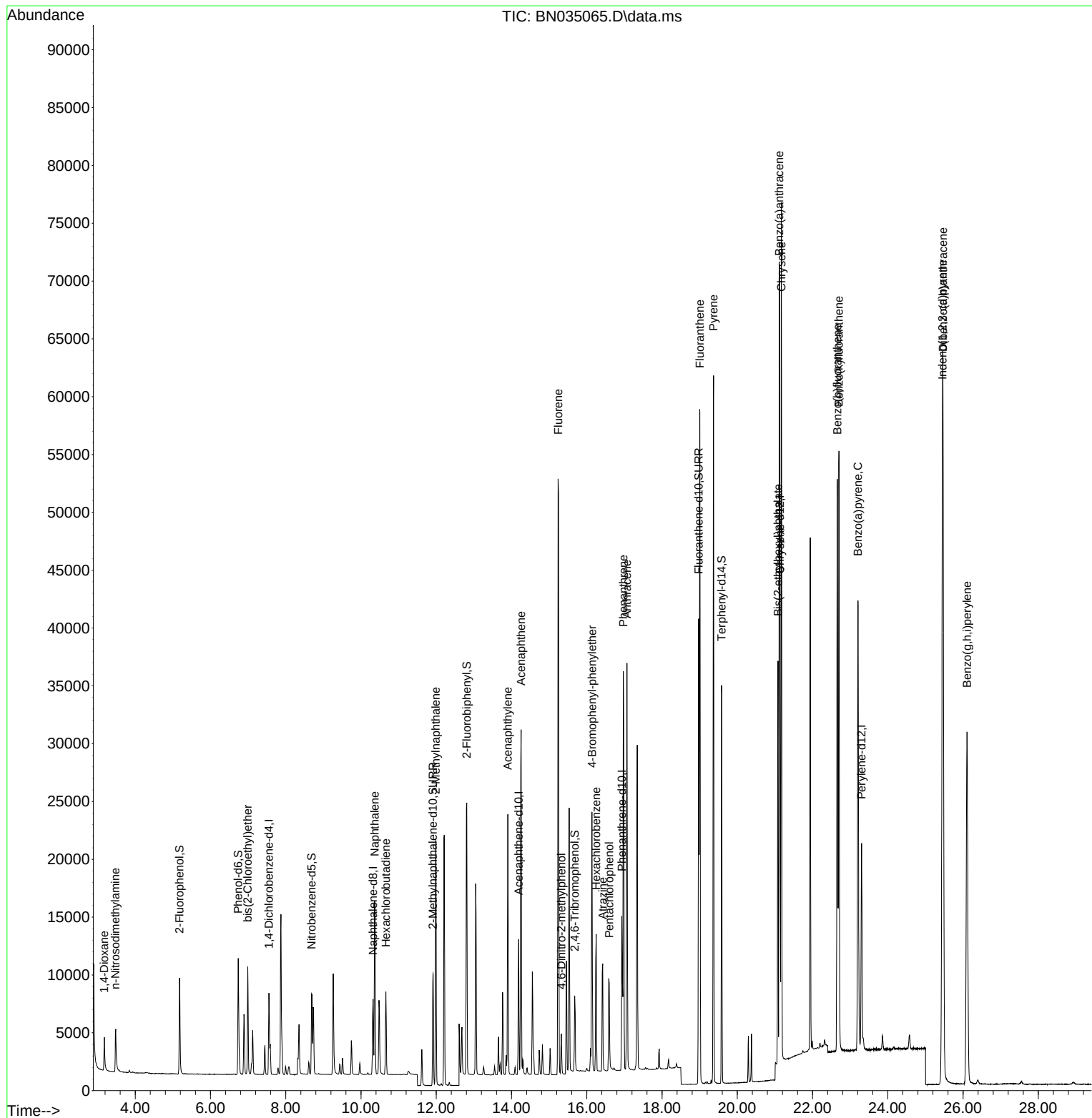
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3429	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	8612	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	6454	0.400	ng	0.00
19) Phenanthrene-d10	16.933	188	17302	0.400	ng	# 0.00
29) Chrysene-d12	21.134	240	19278	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	21751	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	7450	0.856	ng	0.00
5) Phenol-d6	6.737	99	9293	0.851	ng	0.00
8) Nitrobenzene-d5	8.685	82	6336	0.848	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	13119	0.855	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	3866	0.831	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	22399	0.855	ng	0.00
27) Fluoranthene-d10	18.973	212	44583	0.841	ng	0.00
31) Terphenyl-d14	19.582	244	34460	0.852	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	2545	0.817	ng	99
3) n-Nitrosodimethylamine	3.473	42	2466	0.853	ng	# 96
6) bis(2-Chloroethyl)ether	6.990	93	7043	0.860	ng	99
9) Naphthalene	10.362	128	19223	0.855	ng	98
10) Hexachlorobutadiene	10.661	225	5612	0.851	ng	# 100
12) 2-Methylnaphthalene	11.988	142	14179	0.855	ng	99
16) Acenaphthylene	13.902	152	23520	0.853	ng	99
17) Acenaphthene	14.254	154	15511	0.858	ng	99
18) Fluorene	15.238	166	22649	0.852	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	3013	0.837	ng	# 87
21) 4-Bromophenyl-phenylether	16.138	248	9403	0.853	ng	# 85
22) Hexachlorobenzene	16.250	284	9574	0.837	ng	99
23) Atrazine	16.424	200	8427	0.852	ng	# 92
24) Pentachlorophenol	16.597	266	4494	0.841	ng	98
25) Phenanthrene	16.970	178	38573	0.847	ng	99
26) Anthracene	17.069	178	35437	0.847	ng	100
28) Fluoranthene	19.006	202	53391	0.853	ng	100
30) Pyrene	19.368	202	54892	0.855	ng	100
32) Benzo(a)anthracene	21.116	228	56460	0.841	ng	98
33) Chrysene	21.169	228	57039	0.858	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	29628	0.848	ng	100
36) Indeno(1,2,3-cd)pyrene	25.452	276	75270	0.867	ng	100
37) Benzo(b)fluoranthene	22.657	252	62606	0.855	ng	97
38) Benzo(k)fluoranthene	22.701	252	61702	0.843	ng	96
39) Benzo(a)pyrene	23.206	252	54251	0.842	ng	# 95
40) Dibenzo(a,h)anthracene	25.466	278	59829	0.870	ng	99
41) Benzo(g,h,i)perylene	26.104	276	63167	0.864	ng	98

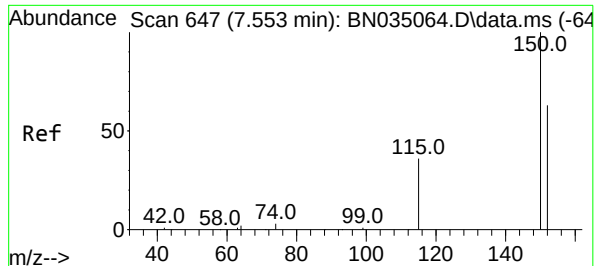
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035065.D
Acq On : 13 Nov 2024 14:28
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 13 16:44:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

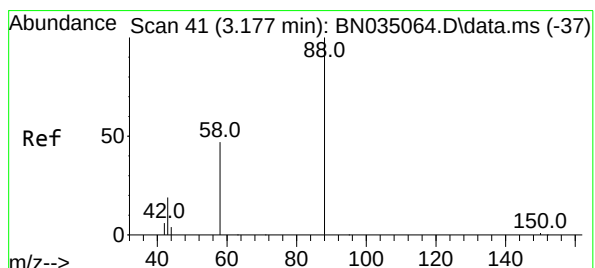
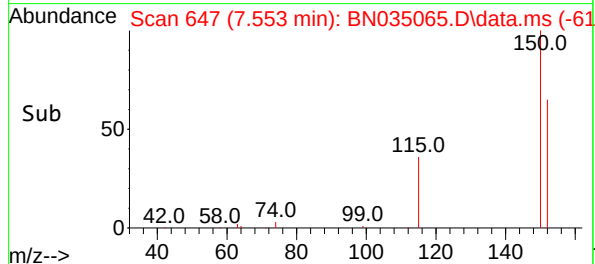
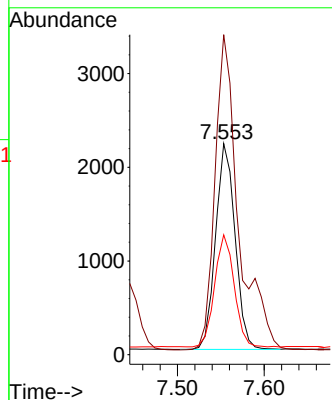
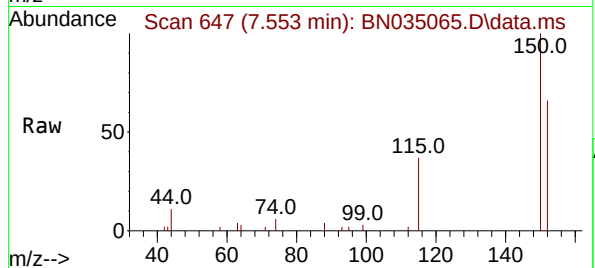




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

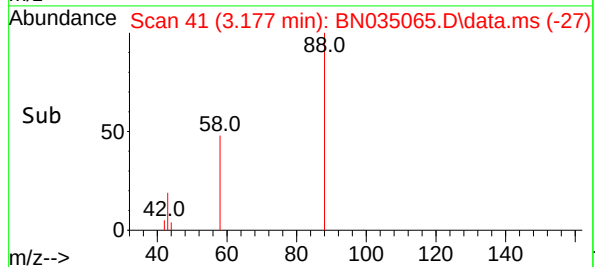
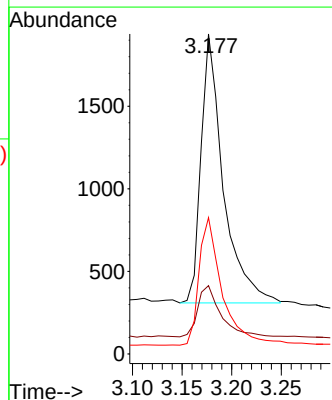
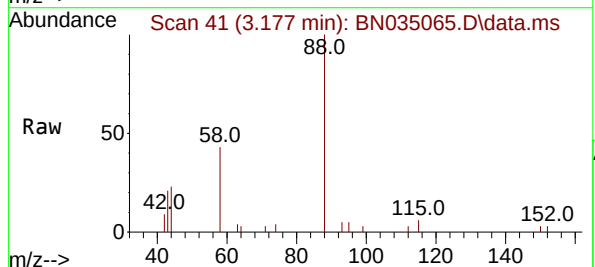
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

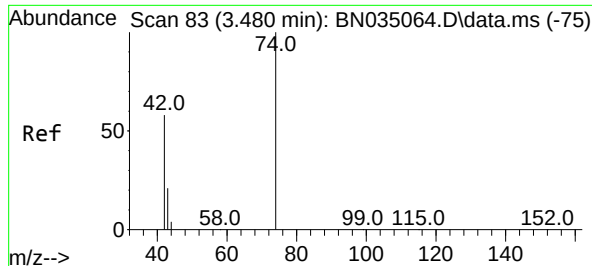
Tgt Ion:152 Resp: 3429
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 56.8 47.8 71.6



#2
1,4-Dioxane
Concen: 0.817 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 88 Resp: 2545
Ion Ratio Lower Upper
88 100
43 19.8 16.9 25.3
58 49.3 39.0 58.4

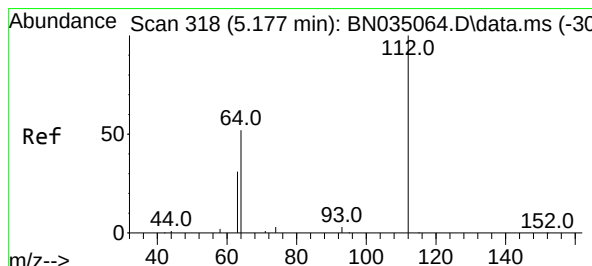
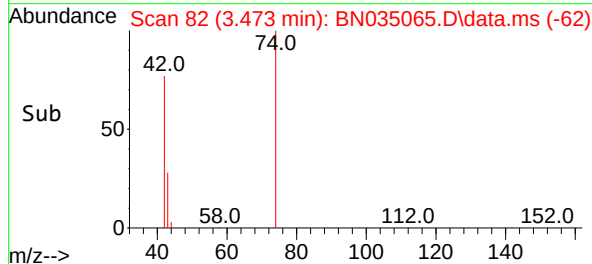
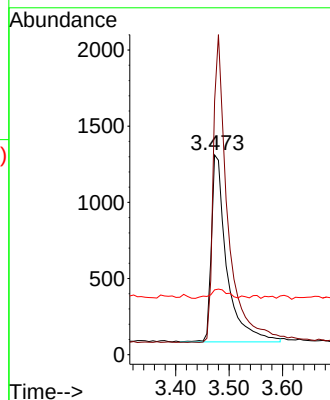
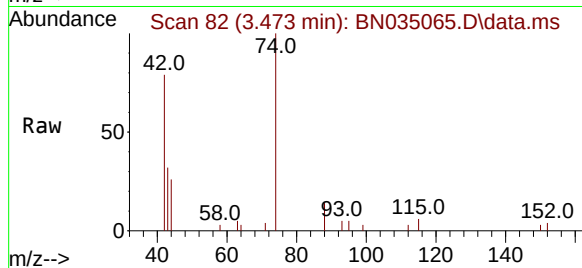




#3
n-Nitrosodimethylamine
Concen: 0.853 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

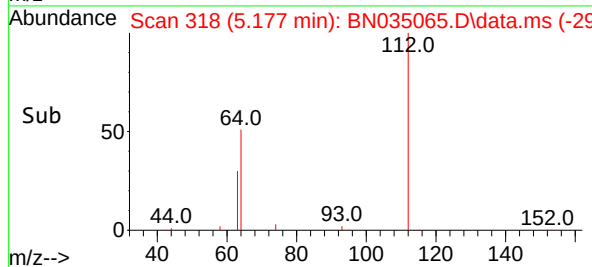
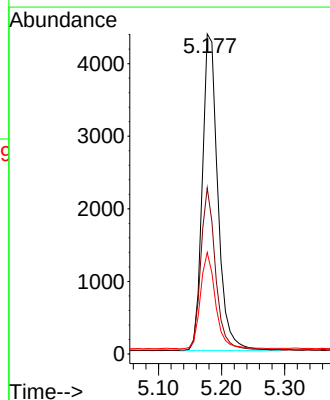
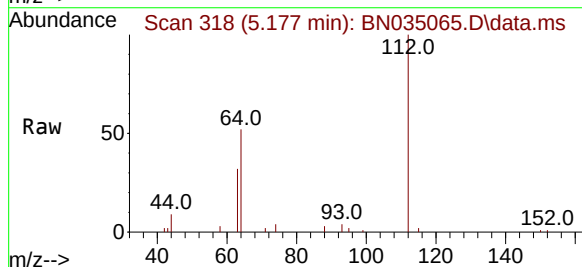
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

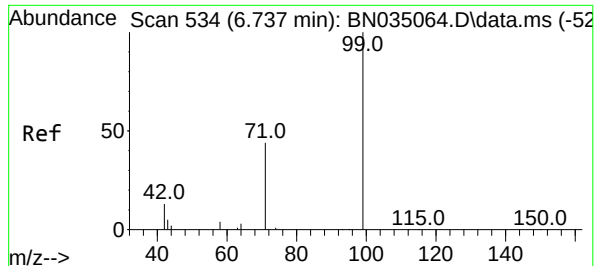
Tgt Ion: 42 Resp: 2466
Ion Ratio Lower Upper
42 100
74 155.8 120.8 181.2
44 5.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.856 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 112 Resp: 7450
Ion Ratio Lower Upper
112 100
64 49.1 39.7 59.5
63 29.6 23.0 34.4

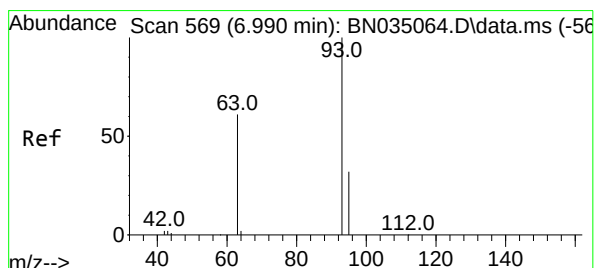
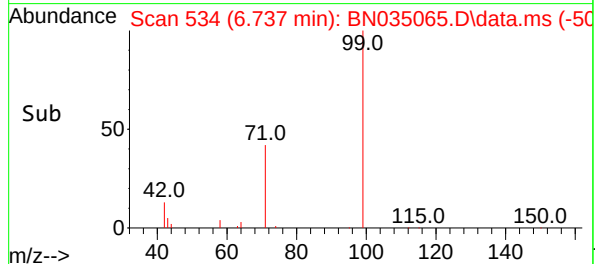
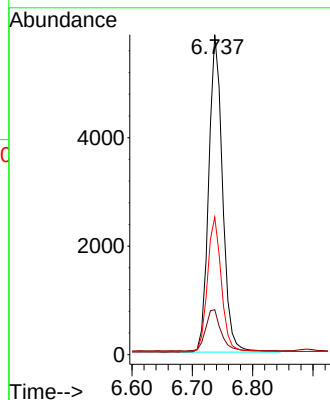
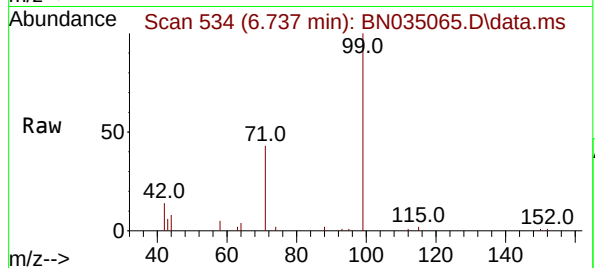




#5
Phenol-d6
Concen: 0.851 ng
RT: 6.737 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

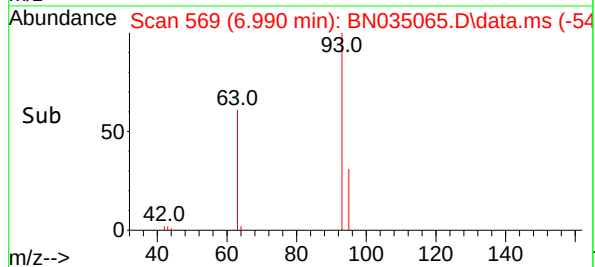
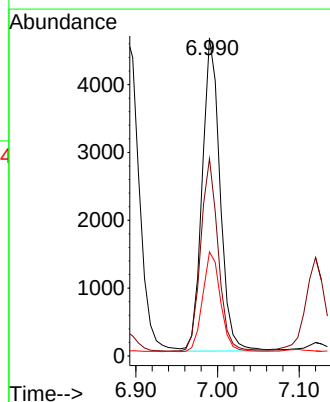
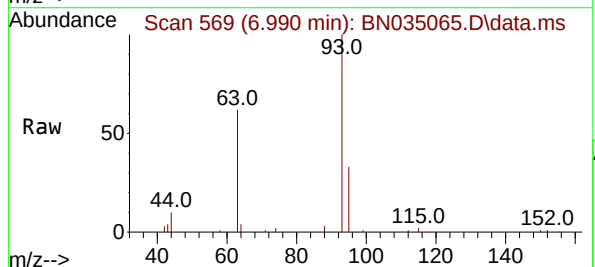
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

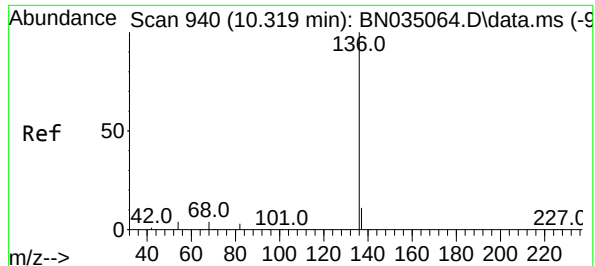
Tgt Ion: 99 Resp: 9293
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 42.9 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.860 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 93 Resp: 7043
Ion Ratio Lower Upper
93 100
63 60.1 47.4 71.2
95 31.8 26.2 39.4

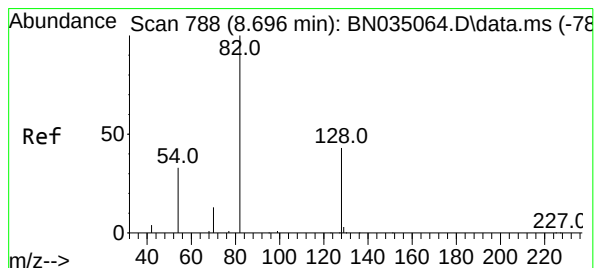
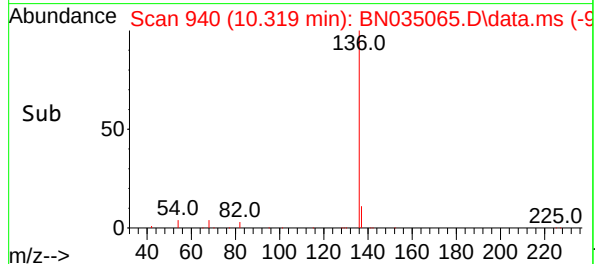
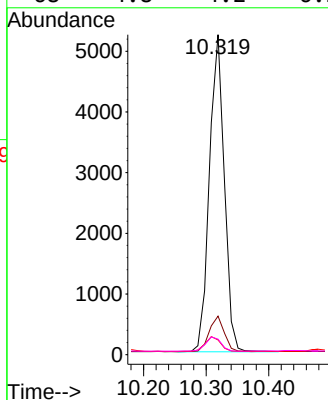
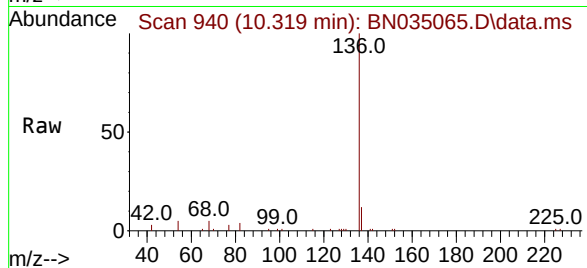




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

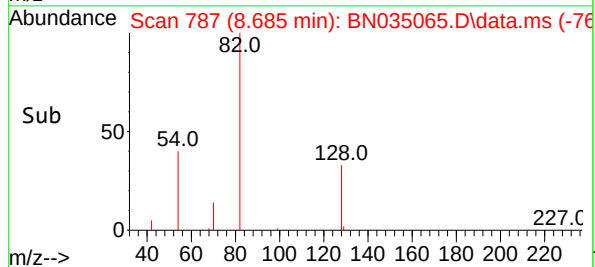
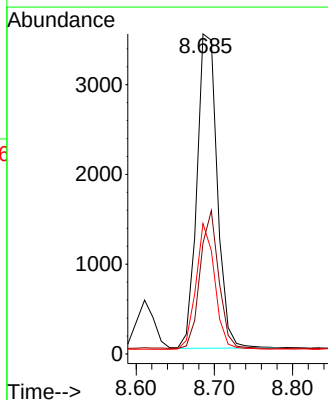
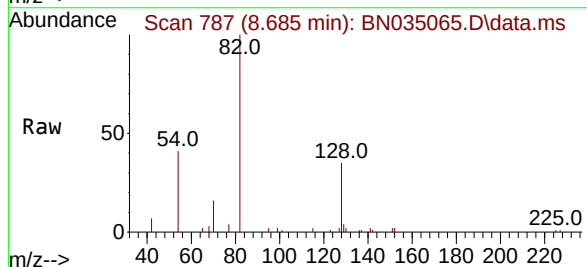
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

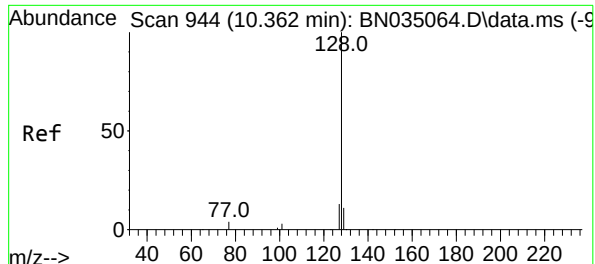
Tgt Ion:	136	Resp:	8612
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.6	4.0	6.0
68	4.8	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.848 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:	82	Resp:	6336
Ion	Ratio	Lower	Upper
82	100		
128	34.6	36.5	54.7#
54	40.8	28.7	43.1





#9

Naphthalene

Concen: 0.855 ng

RT: 10.362 min Scan# 944

Delta R.T. 0.000 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

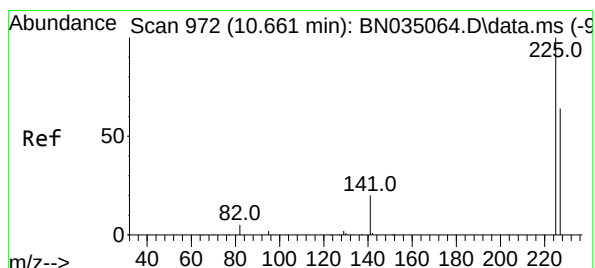
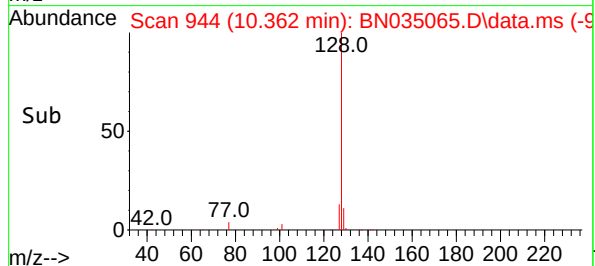
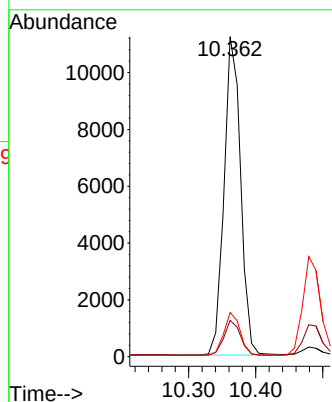
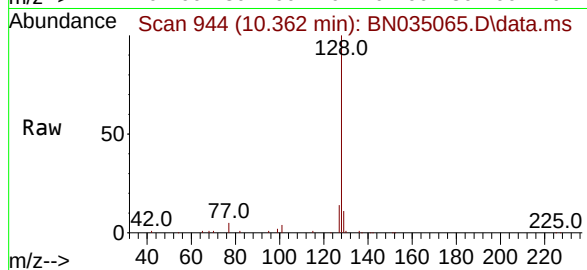
Tgt Ion:128 Resp: 19223

Ion Ratio Lower Upper

128 100

129 11.4 9.6 14.4

127 13.8 11.6 17.4



#10

Hexachlorobutadiene

Concen: 0.851 ng

RT: 10.661 min Scan# 972

Delta R.T. 0.000 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

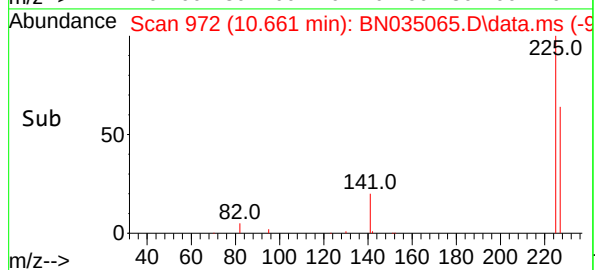
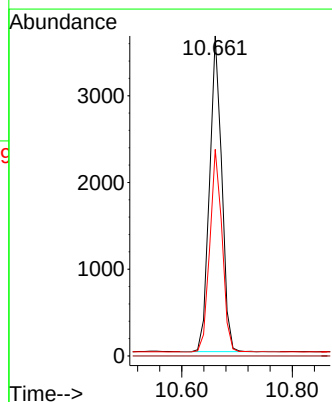
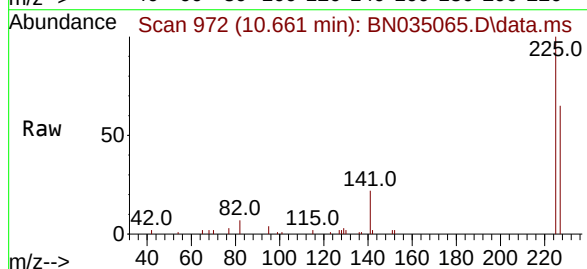
Tgt Ion:225 Resp: 5612

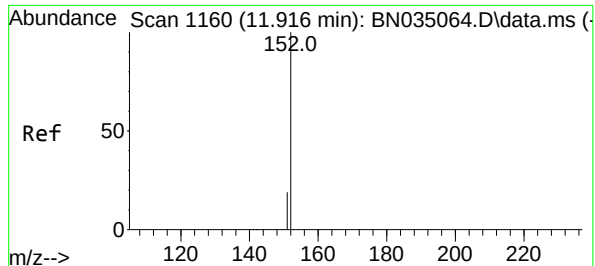
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.5 51.5 77.3

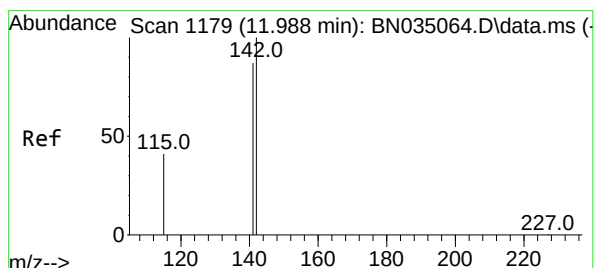
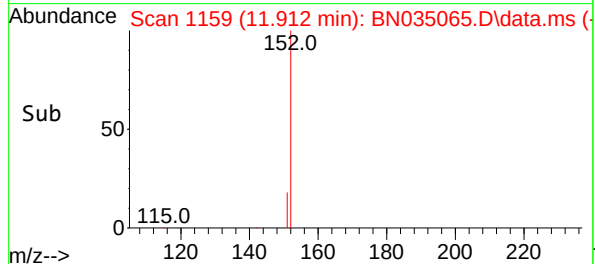
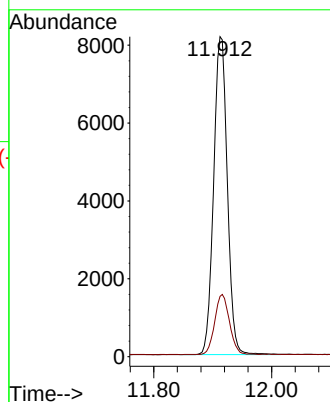
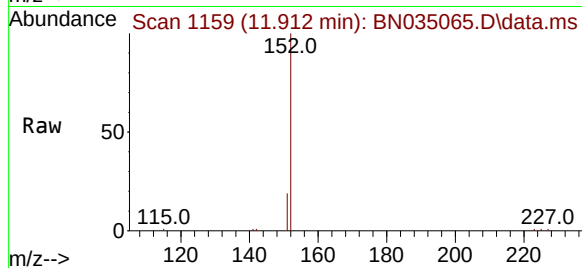




#11
2-Methylnaphthalene-d10
Concen: 0.855 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

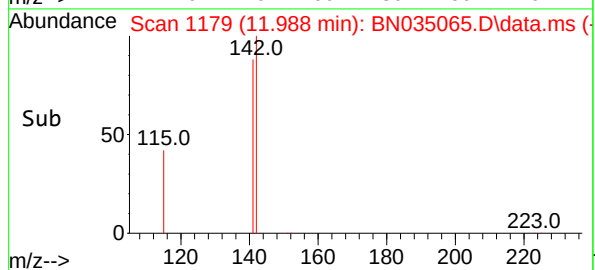
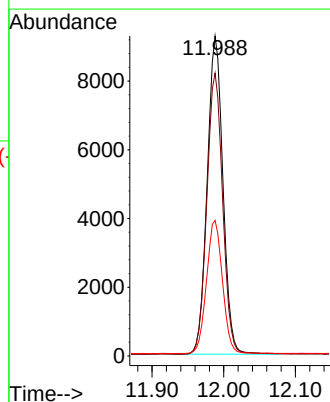
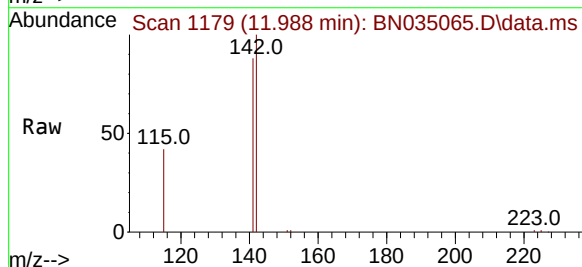
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

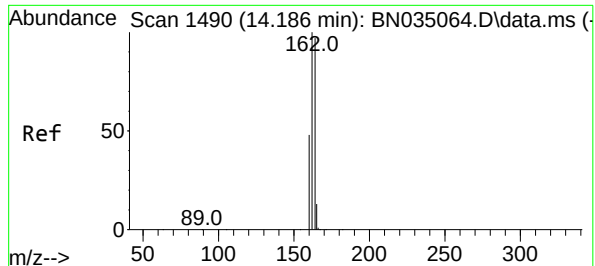
Tgt Ion:152 Resp: 13119
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.855 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:142 Resp: 14179
Ion Ratio Lower Upper
142 100
141 88.4 70.1 105.1
115 42.4 34.4 51.6

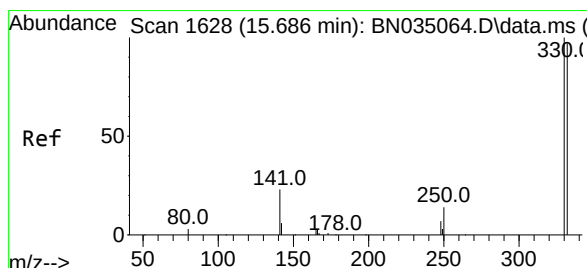
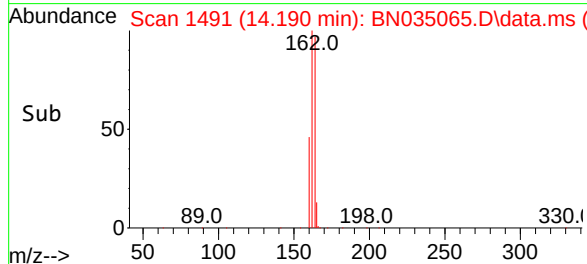
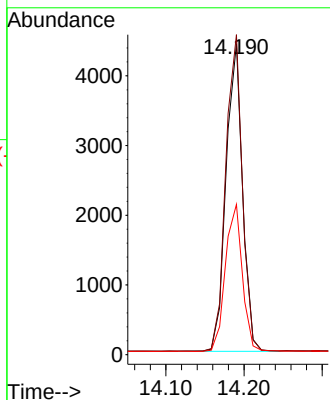
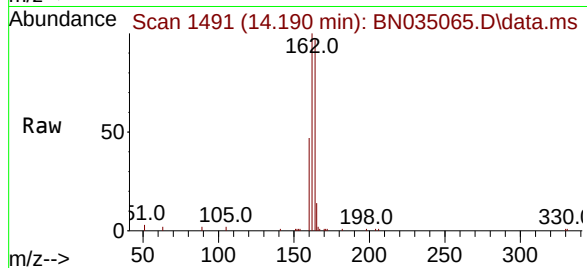




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

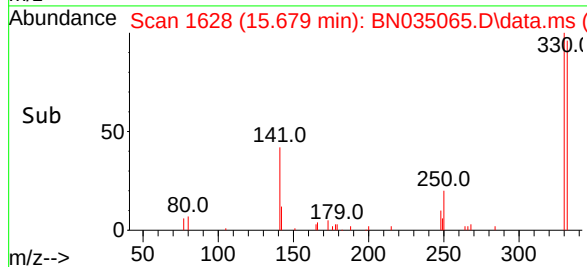
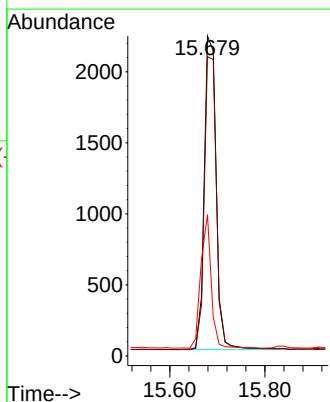
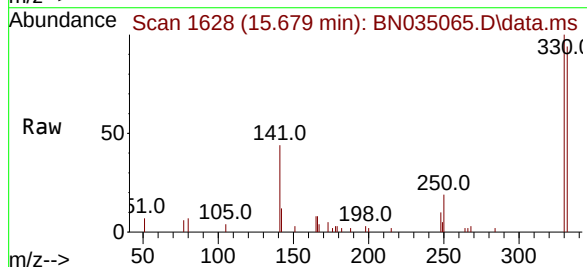
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

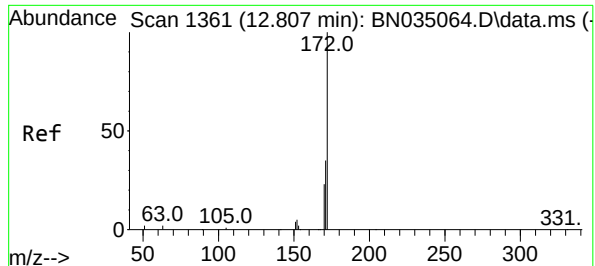
Tgt Ion:164 Resp: 6454
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.831 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:330 Resp: 3866
Ion Ratio Lower Upper
330 100
332 95.2 76.9 115.3
141 36.9 29.6 44.4

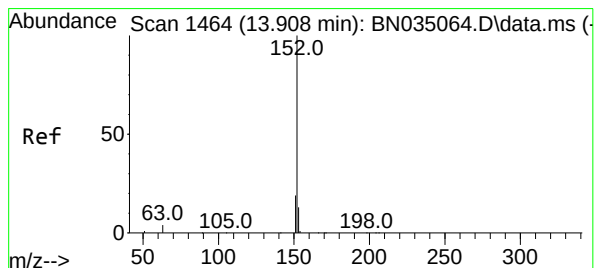
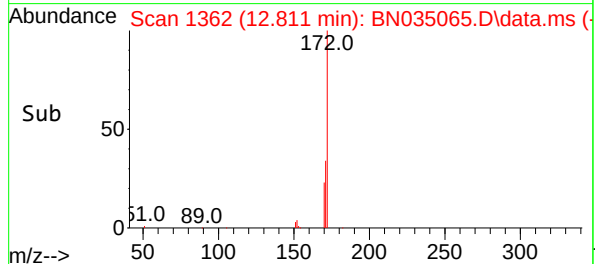
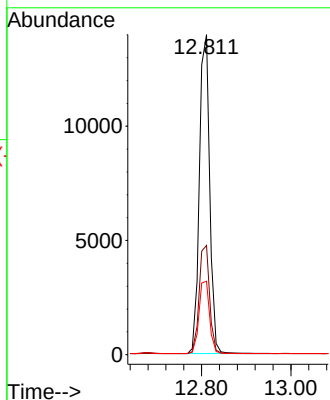
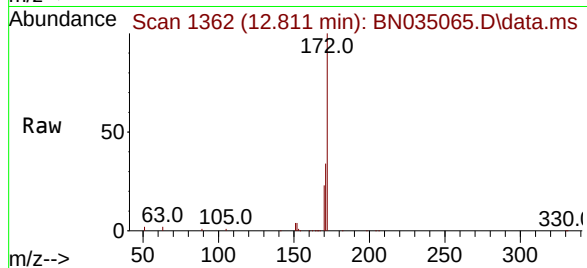




#15
2-Fluorobiphenyl
Concen: 0.855 ng
RT: 12.811 min Scan# 1362
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

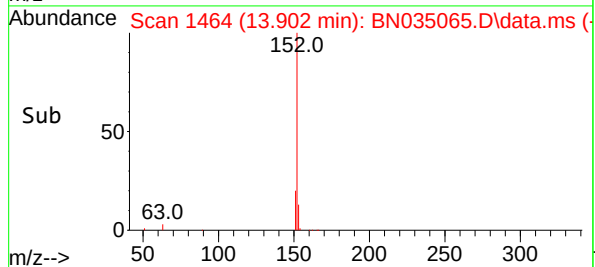
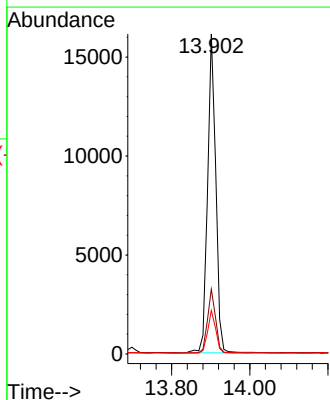
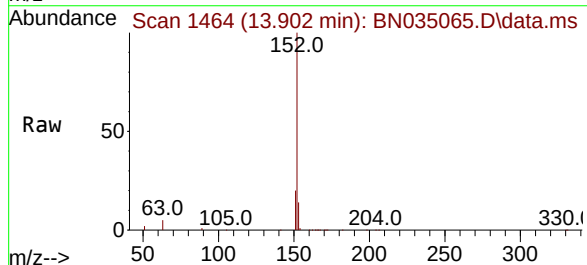
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

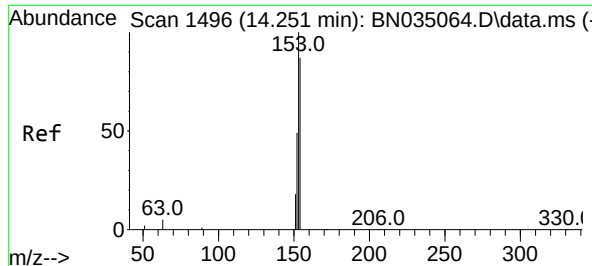
Tgt Ion:172 Resp: 22399
Ion Ratio Lower Upper
172 100
171 34.1 28.2 42.4
170 22.9 19.0 28.6



#16
Acenaphthylene
Concen: 0.853 ng
RT: 13.902 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:152 Resp: 23520
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 13.1 10.2 15.4





#17

Acenaphthene

Concen: 0.858 ng

RT: 14.254 min Scan# 1497

Delta R.T. 0.004 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

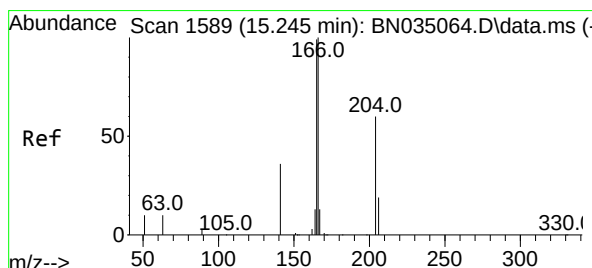
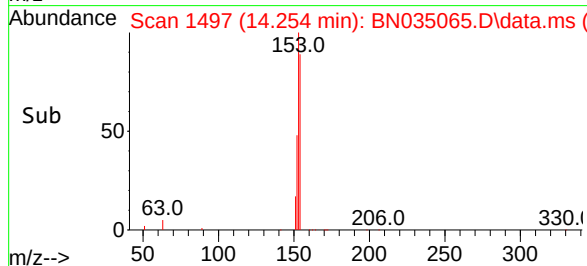
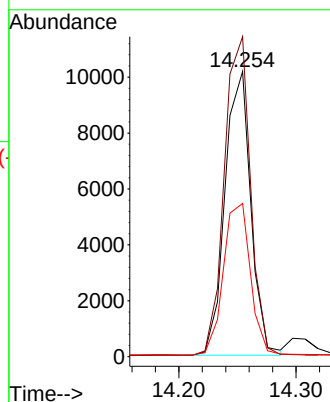
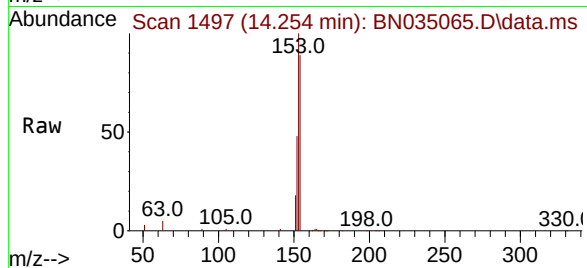
Tgt Ion:154 Resp: 15511

Ion Ratio Lower Upper

154 100

153 114.0 91.6 137.4

152 56.6 45.8 68.6



#18

Fluorene

Concen: 0.852 ng

RT: 15.238 min Scan# 1589

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

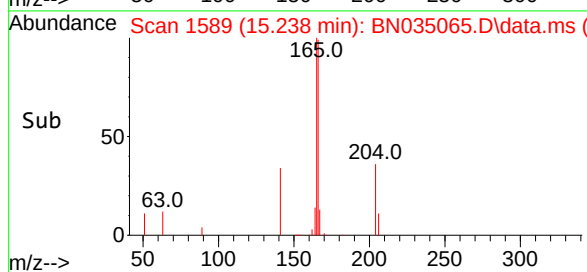
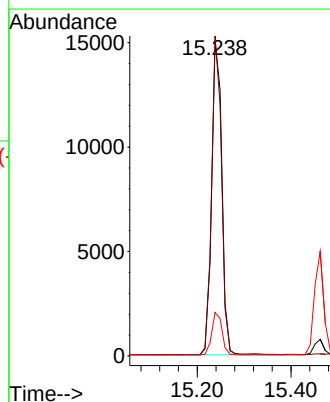
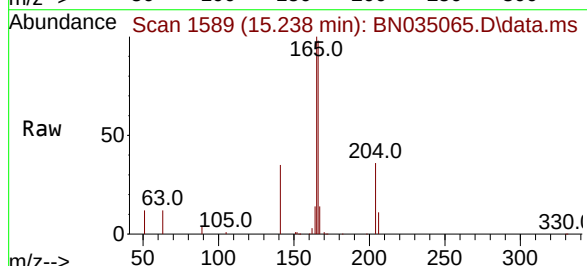
Tgt Ion:166 Resp: 22649

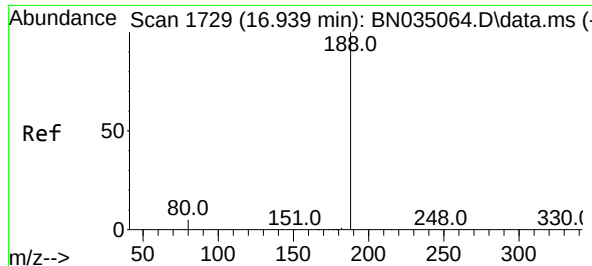
Ion Ratio Lower Upper

166 100

165 98.3 79.1 118.7

167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.933 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

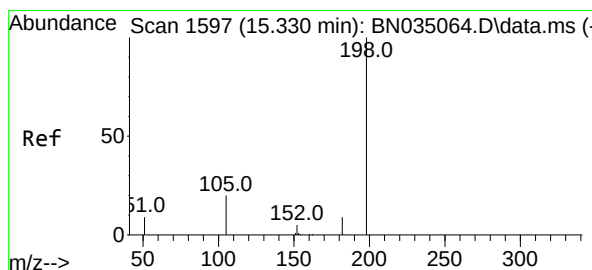
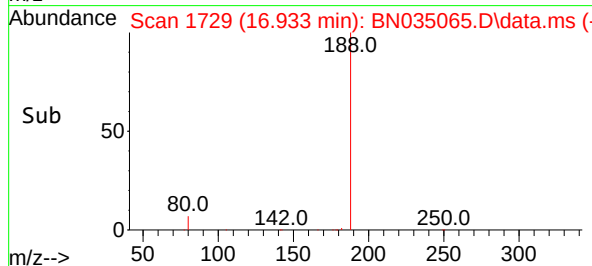
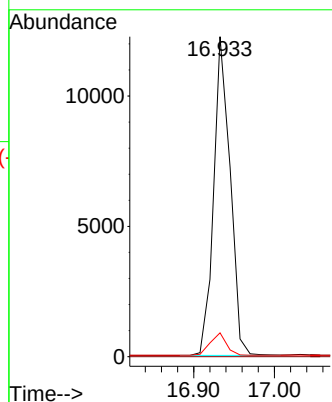
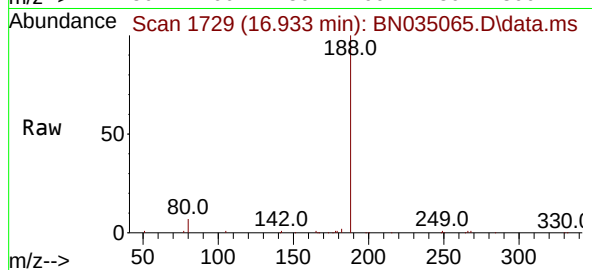
Tgt Ion:188 Resp: 17302

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.837 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

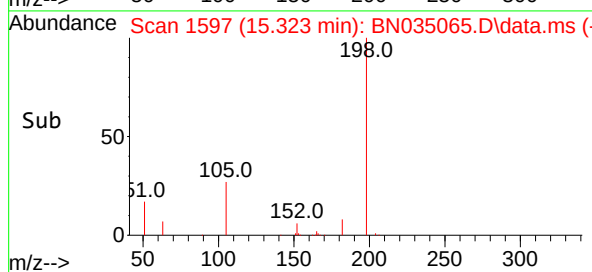
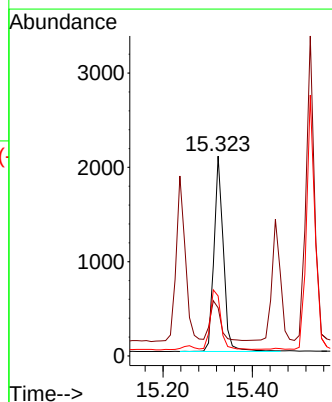
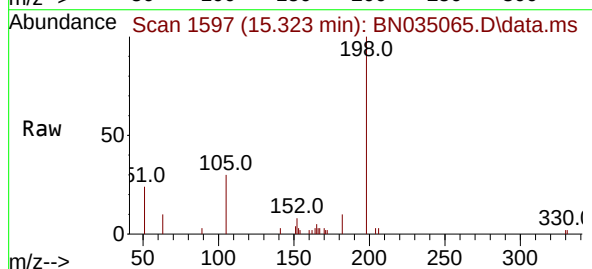
Tgt Ion:198 Resp: 3013

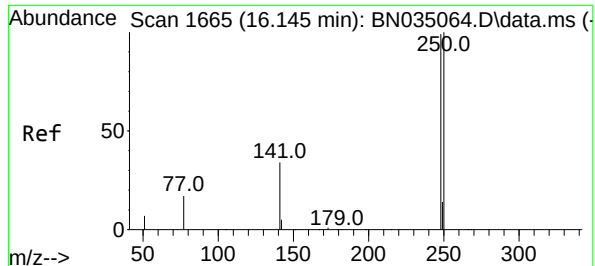
Ion Ratio Lower Upper

198 100

51 24.1 29.9 44.9#

105 30.0 23.7 35.5

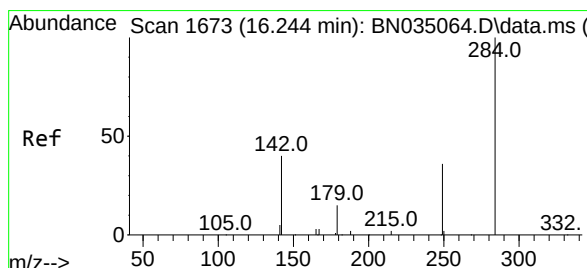
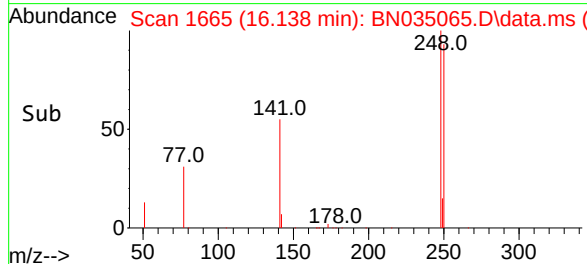
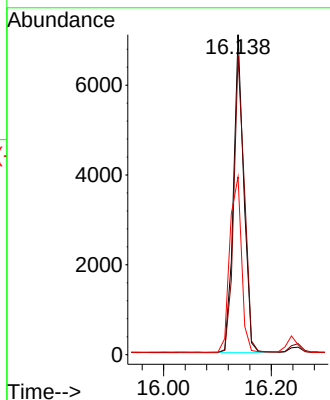
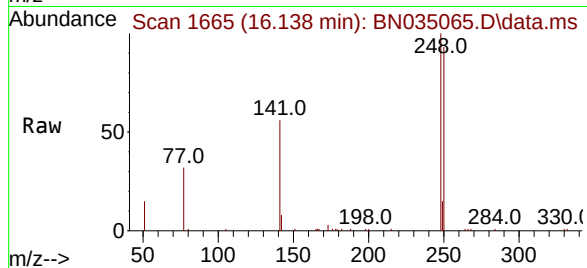




#21
4-Bromophenyl-phenylether
Concen: 0.853 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

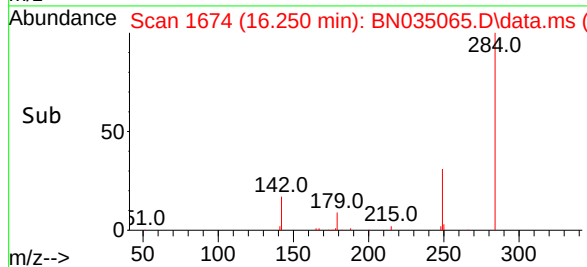
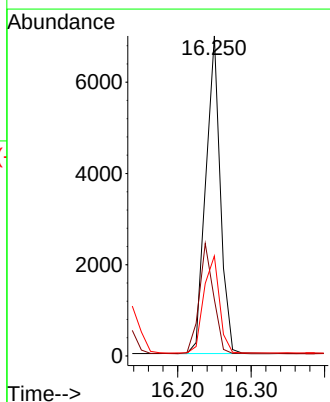
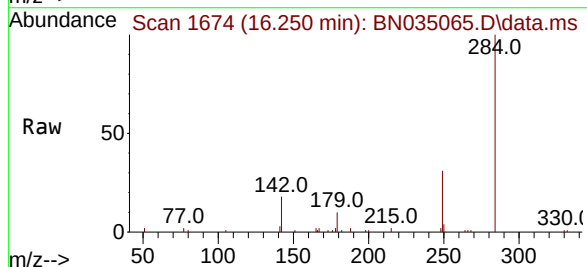
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

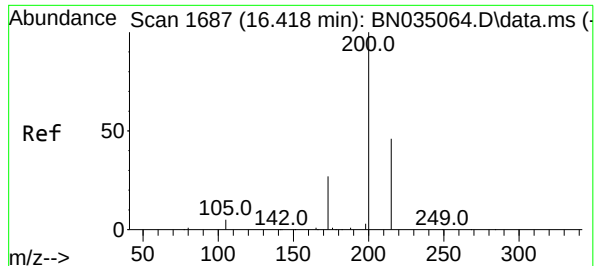
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	81.2	121.8
141	55.6	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.837 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.4	28.2	42.4
249	32.9	26.2	39.2

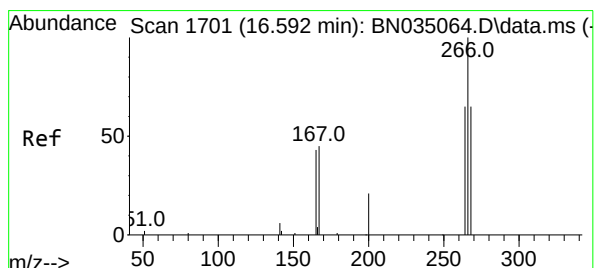
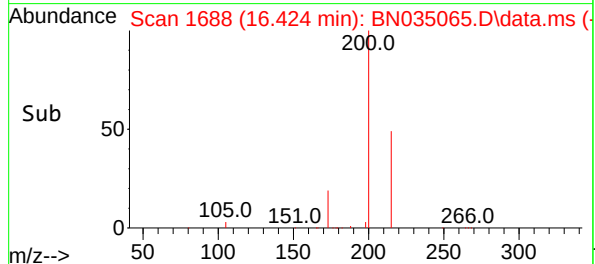
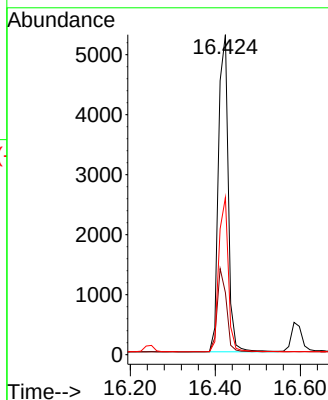
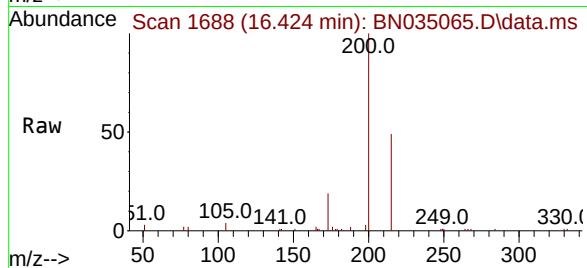




#23
Atrazine
Concen: 0.852 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

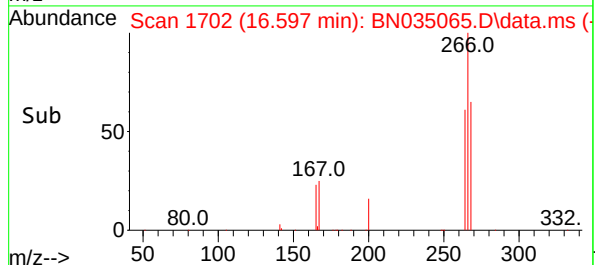
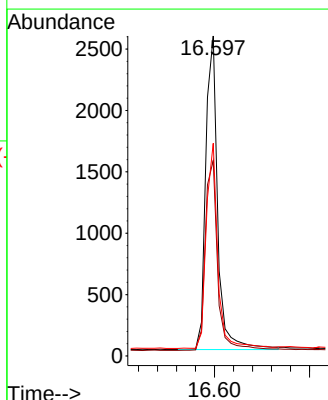
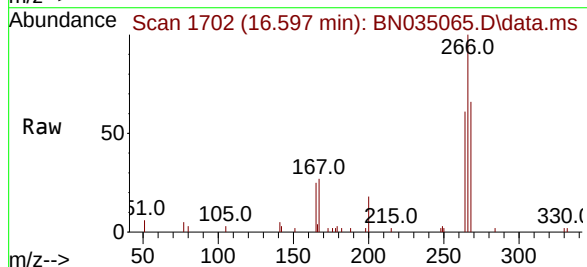
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

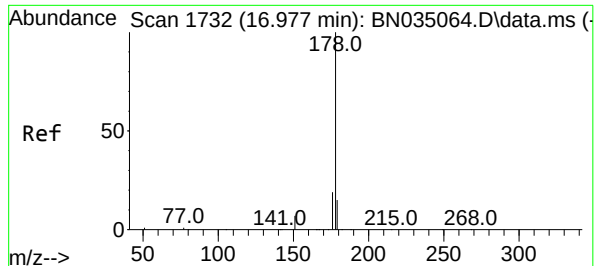
Tgt Ion:200 Resp: 8427
Ion Ratio Lower Upper
200 100
173 19.4 22.6 33.8#
215 49.1 37.8 56.6



#24
Pentachlorophenol
Concen: 0.841 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:266 Resp: 4494
Ion Ratio Lower Upper
266 100
264 62.3 49.4 74.0
268 63.1 52.6 79.0

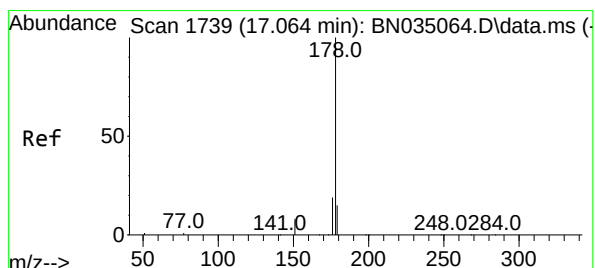
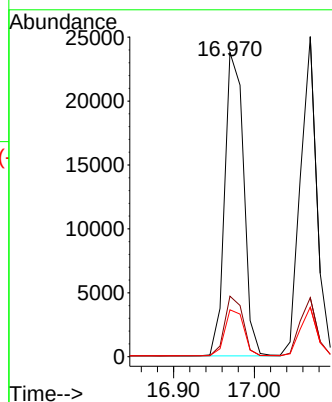
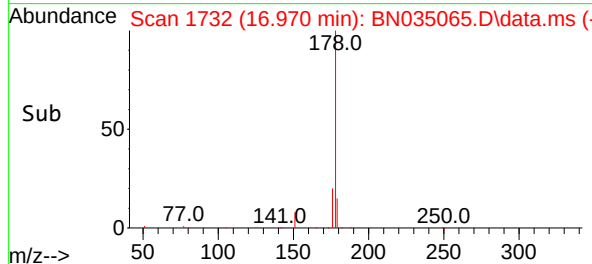
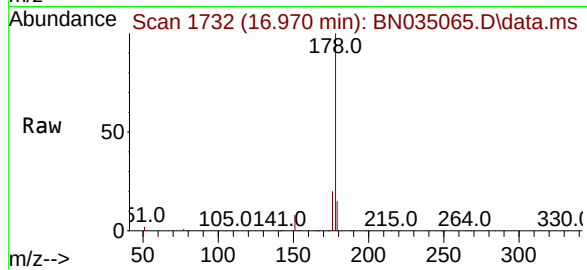




#25
Phenanthrene
Concen: 0.847 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

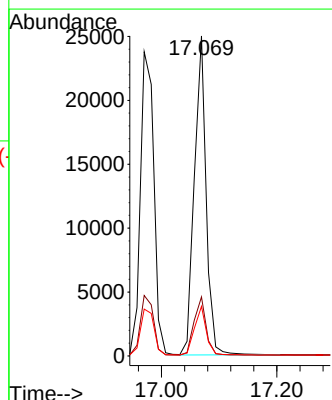
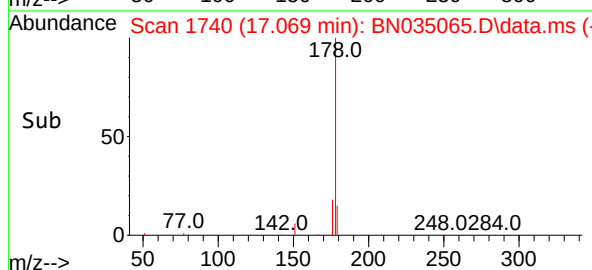
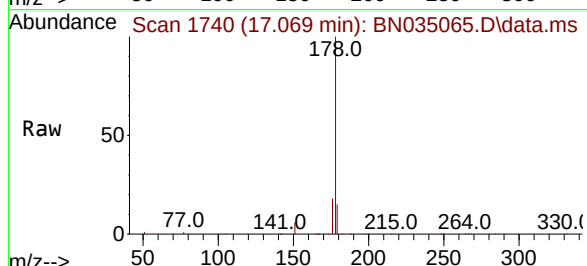
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

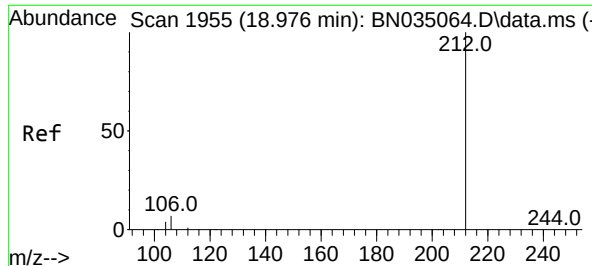
Tgt Ion:178 Resp: 38573
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.3 12.6 18.8



#26
Anthracene
Concen: 0.847 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:178 Resp: 35437
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.841 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

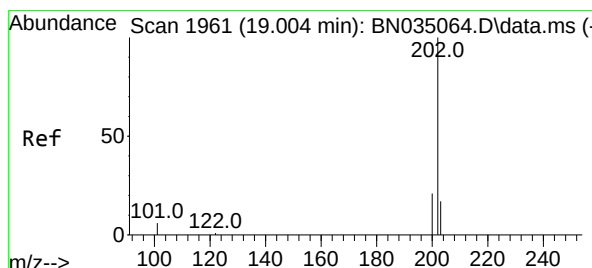
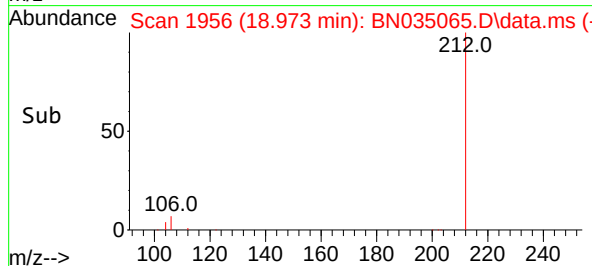
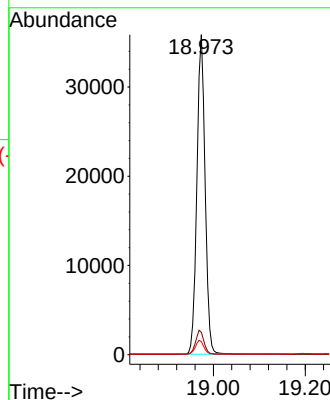
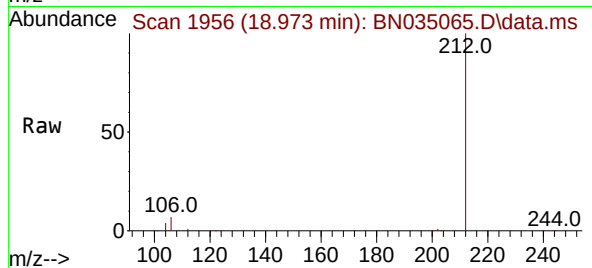
Tgt Ion:212 Resp: 44583

Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.853 ng

RT: 19.006 min Scan# 1963

Delta R.T. 0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

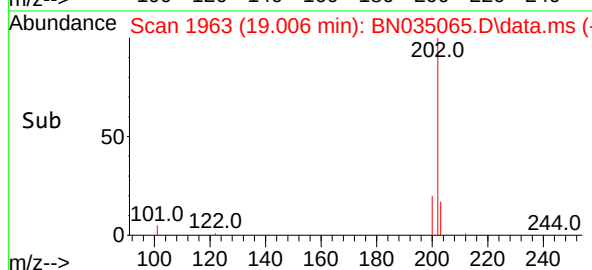
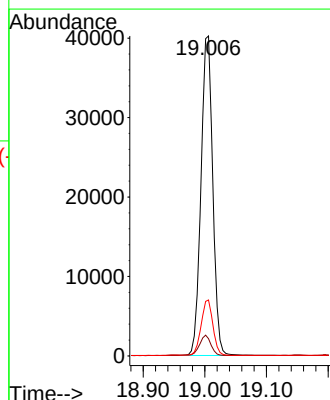
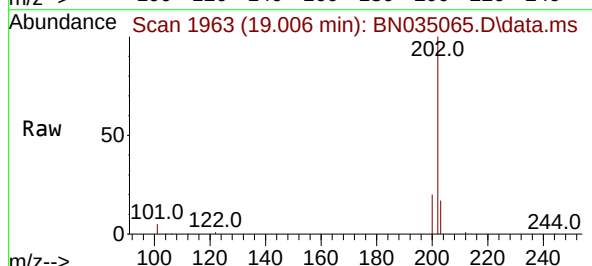
Tgt Ion:202 Resp: 53391

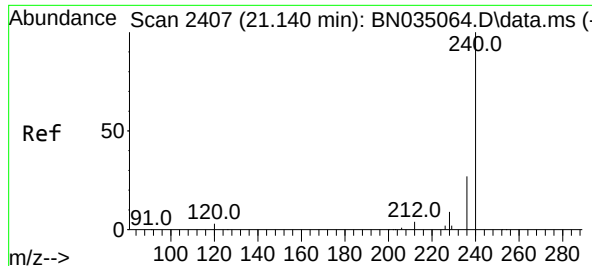
Ion Ratio Lower Upper

202 100

101 6.3 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.134 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

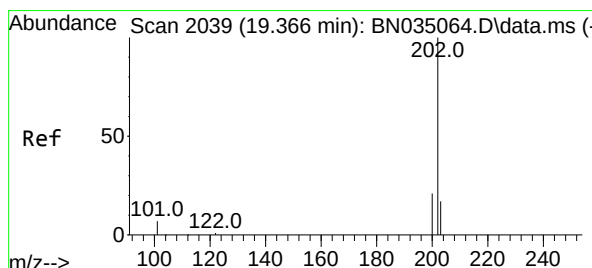
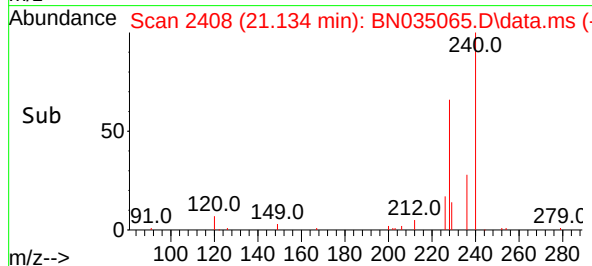
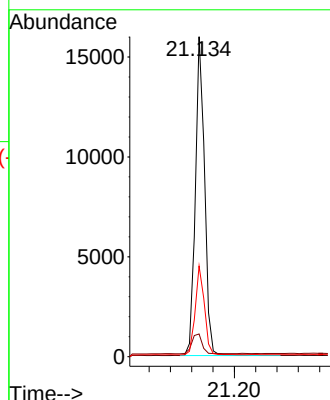
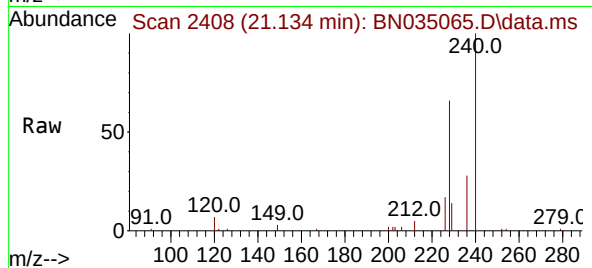
Tgt Ion:240 Resp: 19278

Ion Ratio Lower Upper

240 100

120 7.1 3.8 5.6#

236 28.4 22.2 33.2



#30

Pyrene

Concen: 0.855 ng

RT: 19.368 min Scan# 2041

Delta R.T. 0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

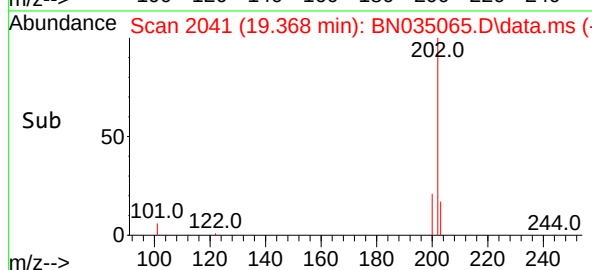
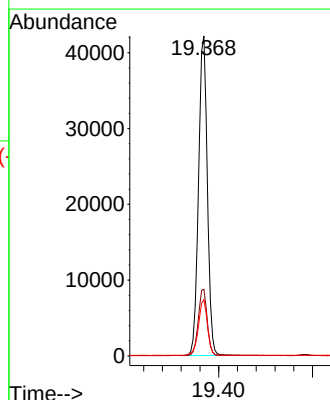
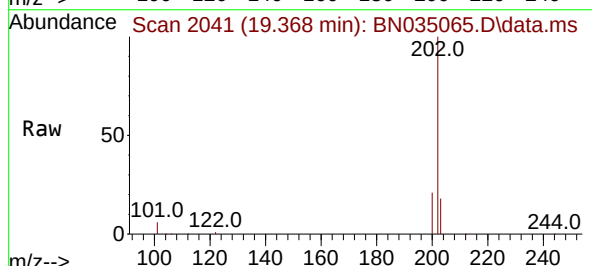
Tgt Ion:202 Resp: 54892

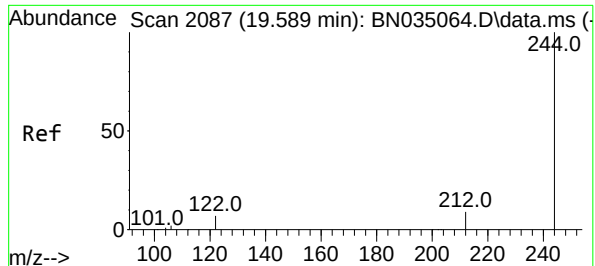
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.8 14.2 21.4

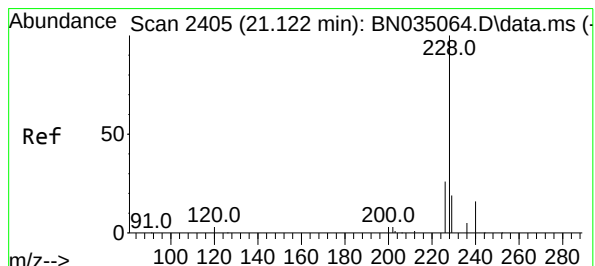
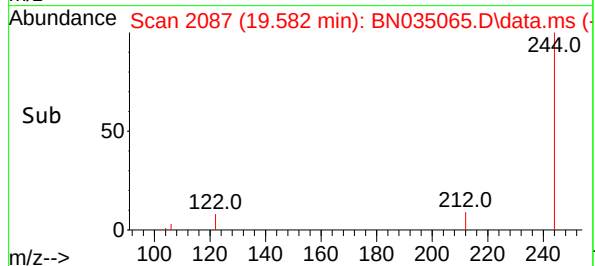
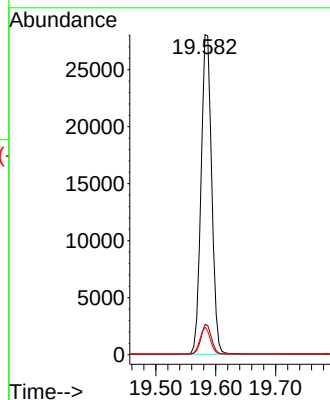
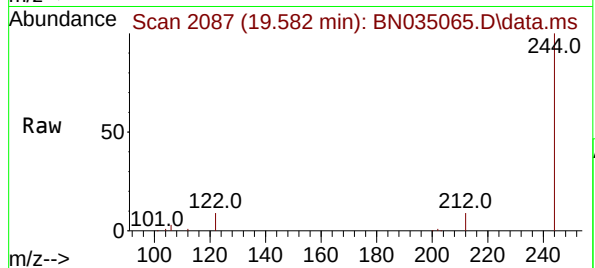




#31
Terphenyl-d14
Concen: 0.852 ng
RT: 19.582 min Scan# 2087
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

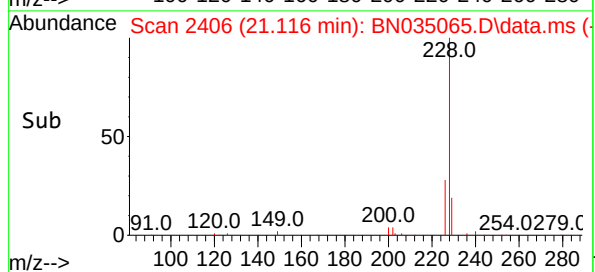
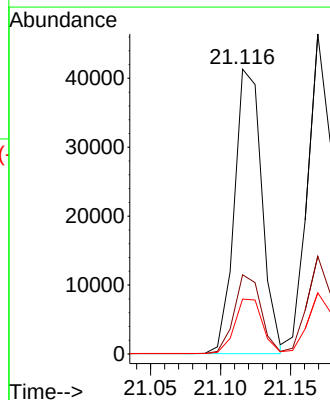
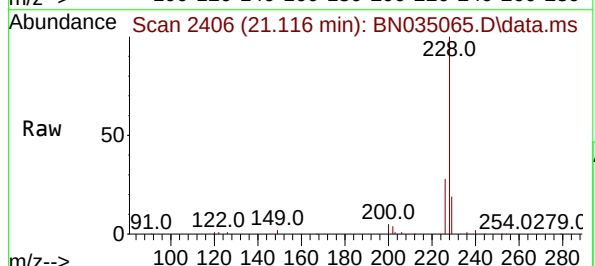
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

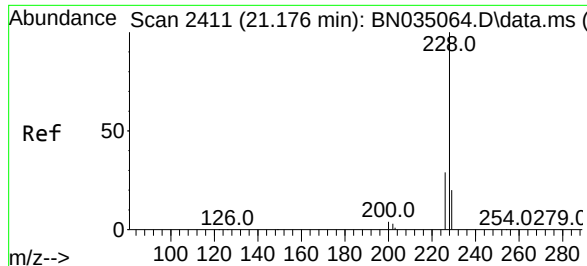
Tgt Ion:244 Resp: 34460
Ion Ratio Lower Upper
244 100
212 9.5 7.6 11.4
122 8.6 6.1 9.1



#32
Benzo(a)anthracene
Concen: 0.841 ng
RT: 21.116 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:228 Resp: 56460
Ion Ratio Lower Upper
228 100
226 27.8 21.4 32.0
229 19.3 15.7 23.5





#33

Chrysene

Concen: 0.858 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

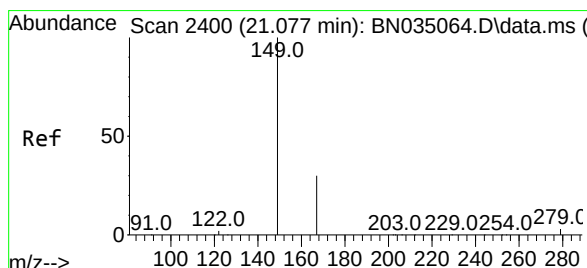
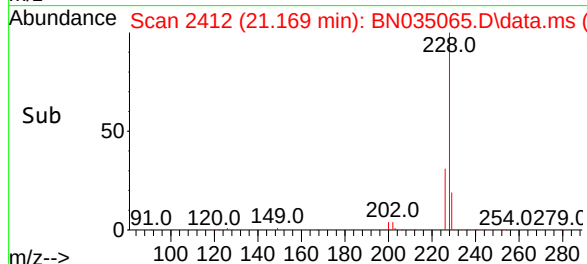
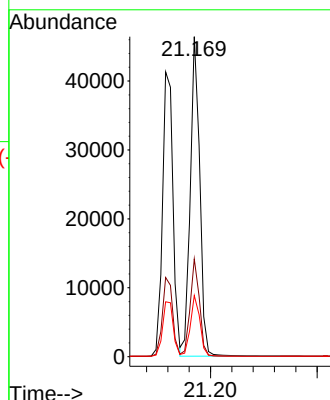
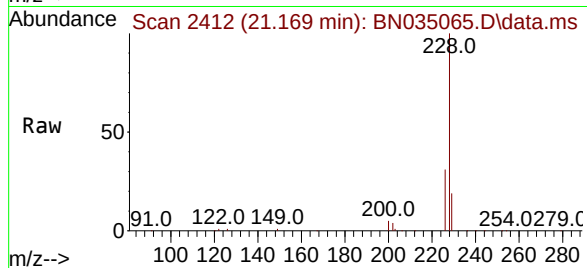
Tgt Ion:228 Resp: 57039

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.848 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

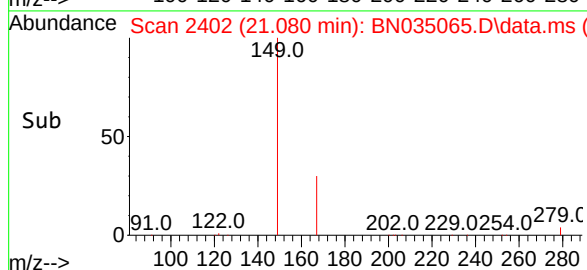
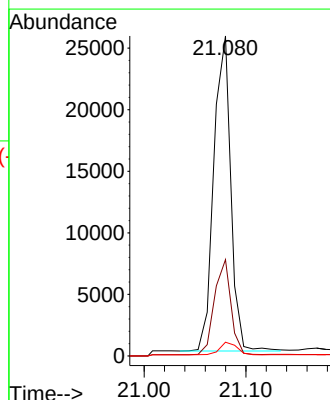
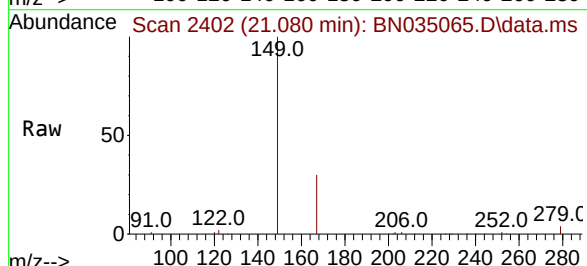
Tgt Ion:149 Resp: 29628

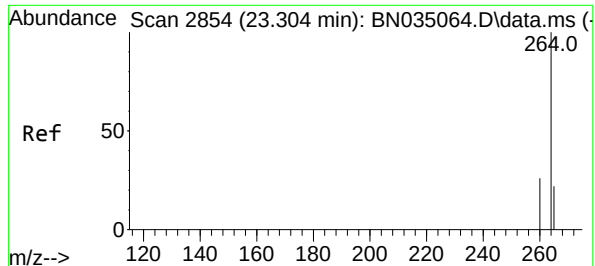
Ion Ratio Lower Upper

149 100

167 29.1 23.2 34.8

279 4.0 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.300 min Scan# 21

Delta R.T. -0.004 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

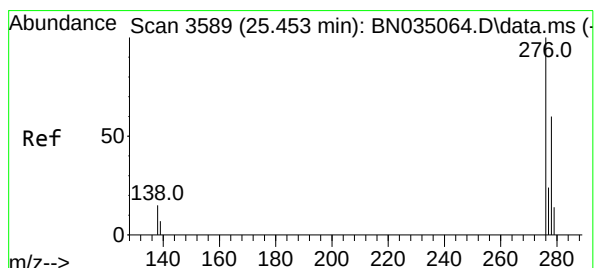
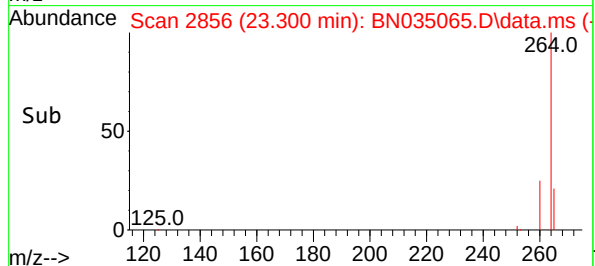
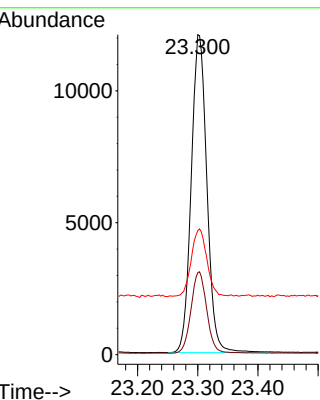
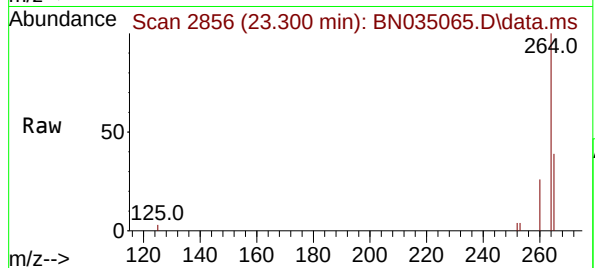
Tgt Ion:264 Resp: 21751

Ion Ratio Lower Upper

264 100

260 25.6 20.9 31.3

265 38.8 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.867 ng

RT: 25.452 min Scan# 3592

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

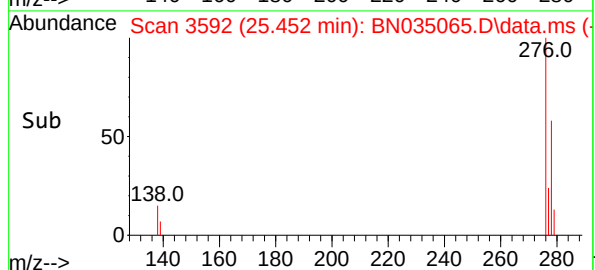
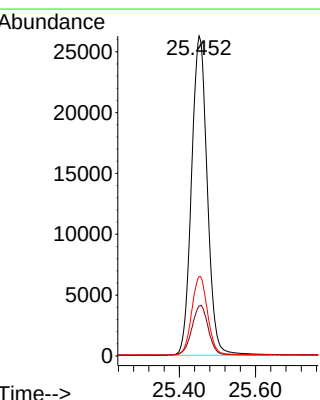
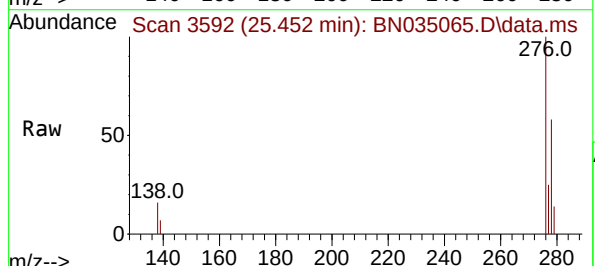
Tgt Ion:276 Resp: 75270

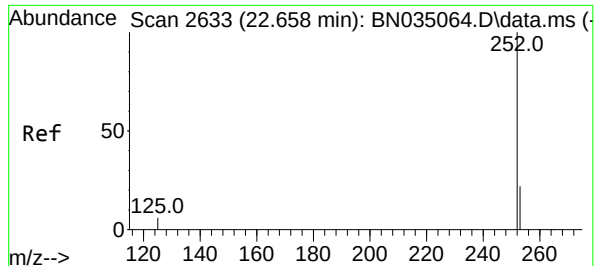
Ion Ratio Lower Upper

276 100

138 16.2 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.855 ng

RT: 22.657 min Scan# 2636

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

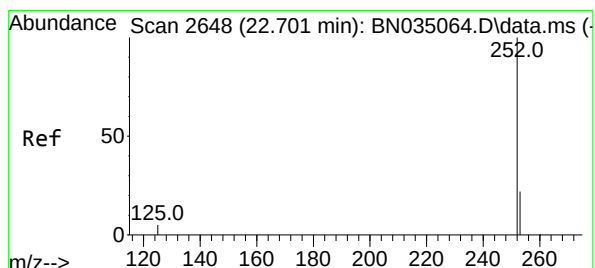
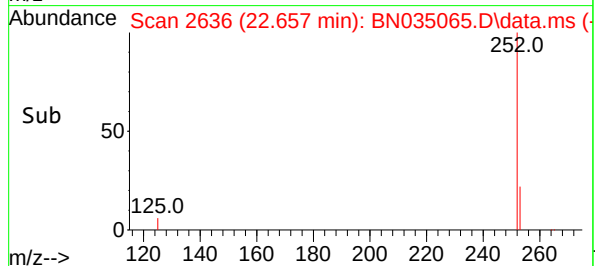
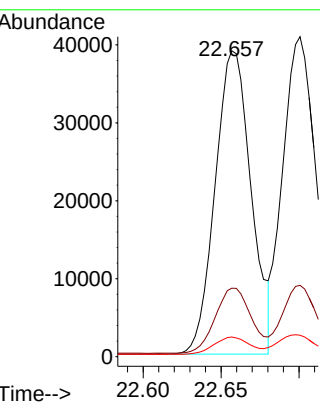
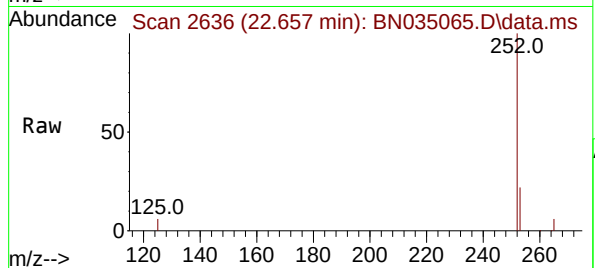
Tgt Ion:252 Resp: 62606

Ion Ratio Lower Upper

252 100

253 22.4 19.3 28.9

125 6.5 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.843 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

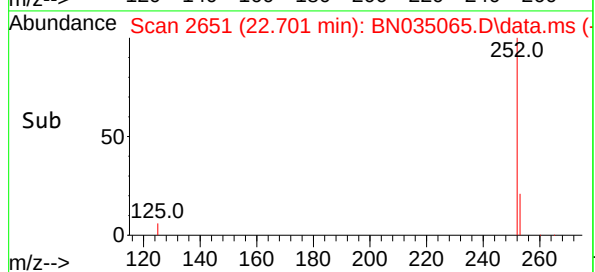
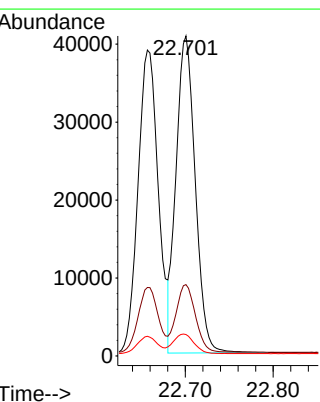
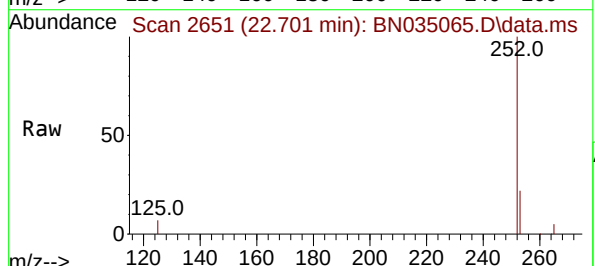
Tgt Ion:252 Resp: 61702

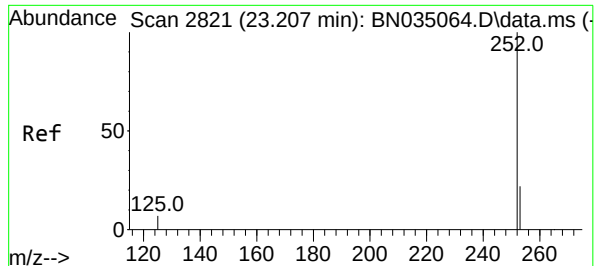
Ion Ratio Lower Upper

252 100

253 22.3 19.5 29.3

125 6.7 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.842 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

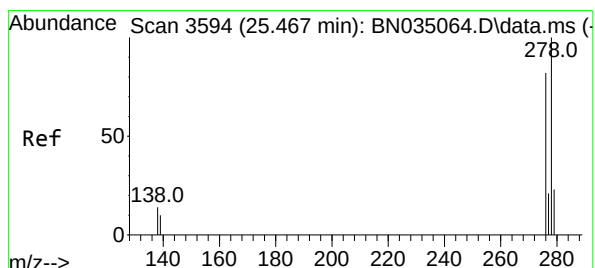
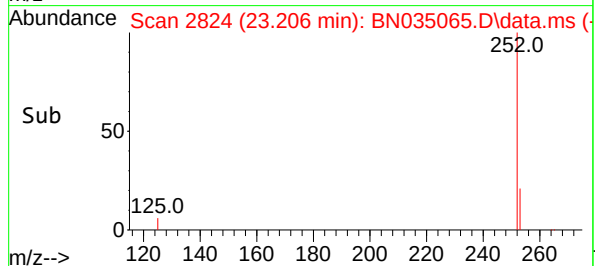
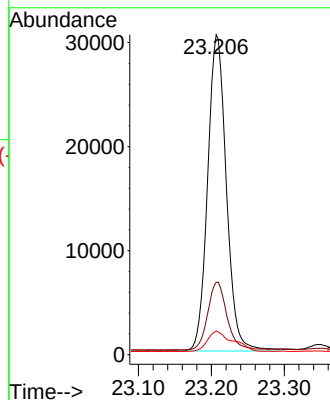
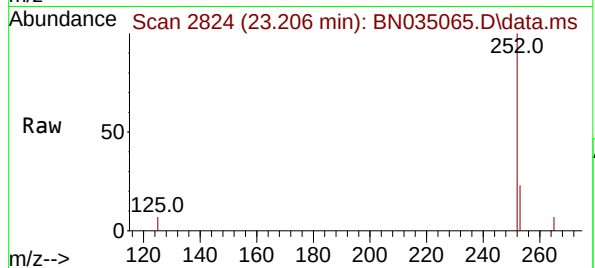
Tgt Ion:252 Resp: 54251

Ion Ratio Lower Upper

252 100

253 22.6 20.1 30.1

125 7.4 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.870 ng

RT: 25.466 min Scan# 3597

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

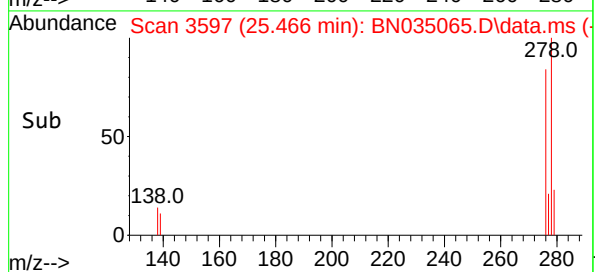
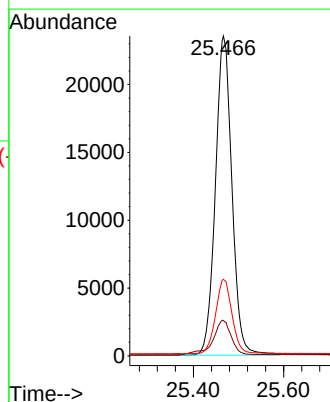
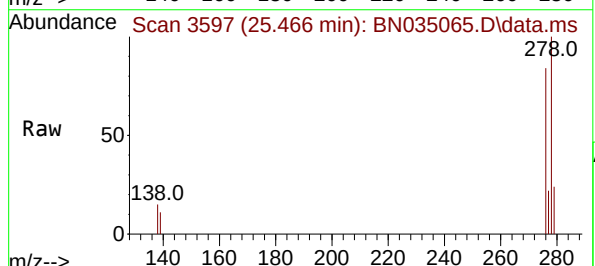
Tgt Ion:278 Resp: 59829

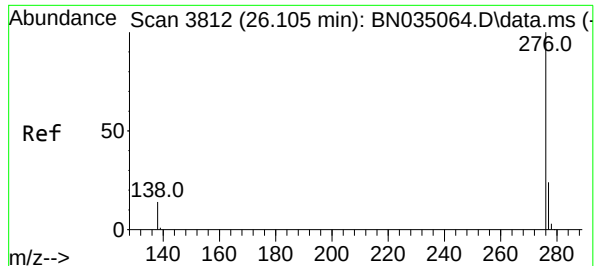
Ion Ratio Lower Upper

278 100

139 11.1 9.3 13.9

279 24.0 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.864 ng

RT: 26.104 min Scan# 3812

Delta R.T. -0.001 min

Lab File: BN035065.D

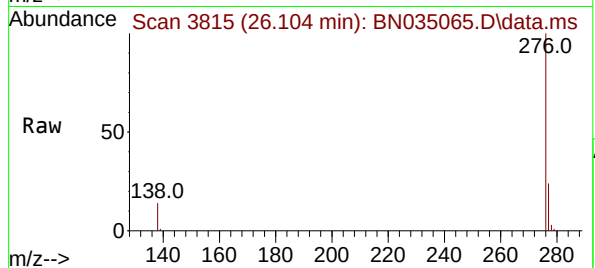
Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



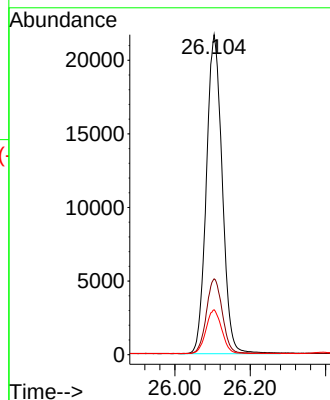
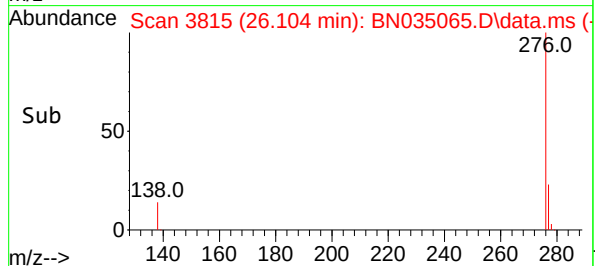
Tgt Ion:276 Resp: 63167

Ion Ratio Lower Upper

276 100

277 23.7 19.9 29.9

138 14.0 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035066.D
 Acq On : 13 Nov 2024 15:04
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 16:44:39 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 16:42:01 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2280	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5826	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4517	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12068	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	13823	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	15060	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	9427	1.629	ng	0.00
5) Phenol-d6	6.737	99	12023	1.657	ng	0.00
8) Nitrobenzene-d5	8.696	82	8306	1.643	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	17545	1.690	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	5402	1.659	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	30472	1.661	ng	0.00
27) Fluoranthene-d10	18.973	212	61972	1.676	ng	0.00
31) Terphenyl-d14	19.587	244	47914	1.652	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	3351	1.618	ng	98
3) n-Nitrosodimethylamine	3.465	42	3168	1.647	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	9071	1.665	ng	99
9) Naphthalene	10.362	128	25283	1.662	ng	98
10) Hexachlorobutadiene	10.660	225	7338	1.646	ng	# 99
12) 2-Methylnaphthalene	11.988	142	18997	1.693	ng	99
16) Acenaphthylene	13.901	152	32064	1.661	ng	99
17) Acenaphthene	14.254	154	20910	1.653	ng	99
18) Fluorene	15.238	166	30868	1.659	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	4259	1.695	ng	# 84
21) 4-Bromophenyl-phenylether	16.138	248	12888	1.676	ng	# 86
22) Hexachlorobenzene	16.250	284	13172	1.651	ng	99
23) Atrazine	16.424	200	11471	1.663	ng	# 93
24) Pentachlorophenol	16.597	266	6275	1.683	ng	98
25) Phenanthrene	16.982	178	52915	1.666	ng	99
26) Anthracene	17.069	178	49046	1.681	ng	100
28) Fluoranthene	19.006	202	73694	1.687	ng	100
30) Pyrene	19.368	202	75558	1.641	ng	100
32) Benzo(a)anthracene	21.125	228	78298	1.627	ng	100
33) Chrysene	21.169	228	78533	1.647	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	38807	1.549	ng	99
36) Indeno(1,2,3-cd)pyrene	25.452	276	99936	1.663	ng	100
37) Benzo(b)fluoranthene	22.660	252	85426m	1.686	ng	
38) Benzo(k)fluoranthene	22.701	252	84960	1.676	ng	# 95
39) Benzo(a)pyrene	23.209	252	74668	1.675	ng	# 94
40) Dibenzo(a,h)anthracene	25.469	278	79628	1.673	ng	98
41) Benzo(g,h,i)perylene	26.107	276	83498	1.649	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035066.D
Acq On : 13 Nov 2024 15:04
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

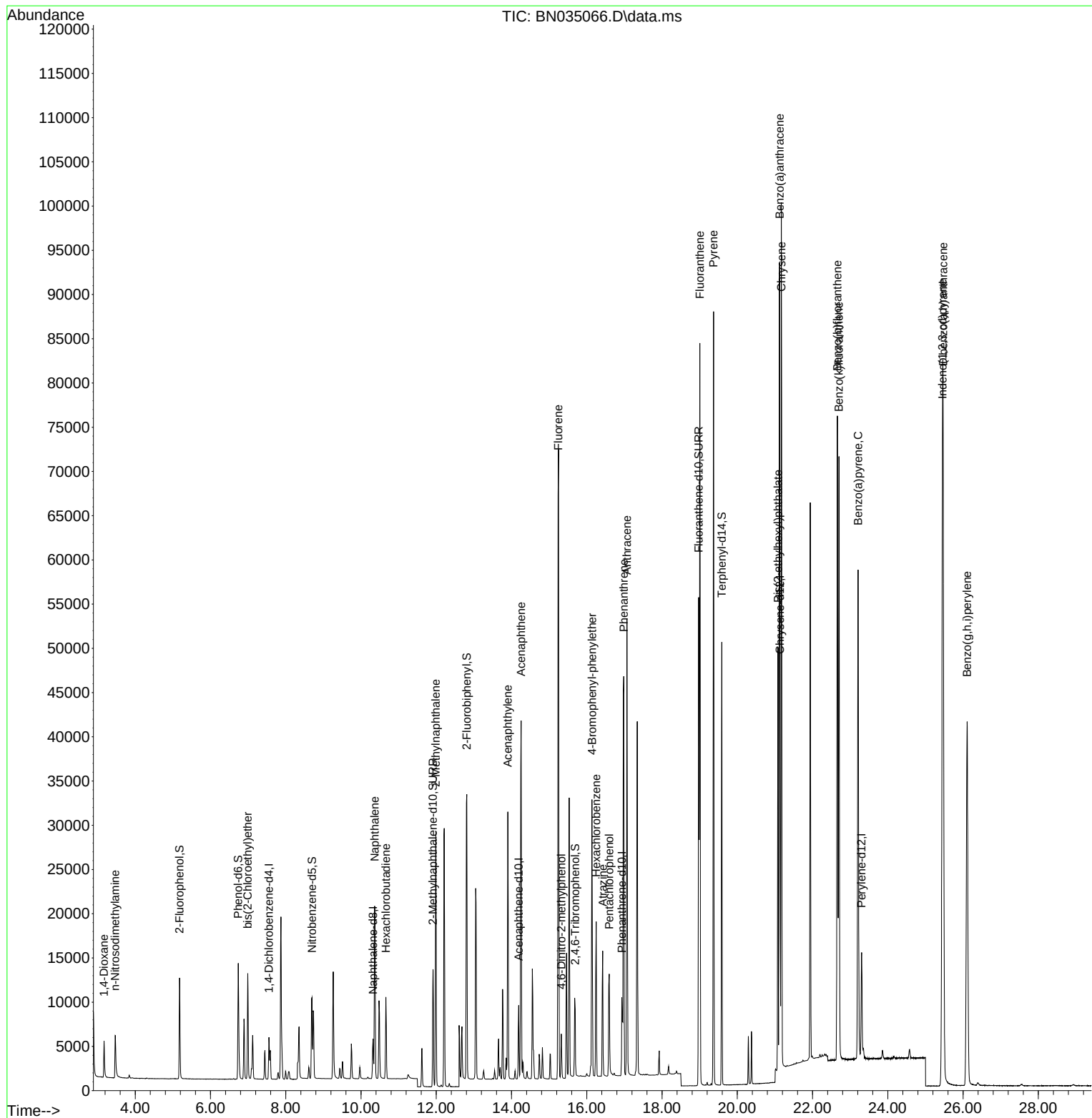
Quant Time: Nov 13 16:44:39 2024

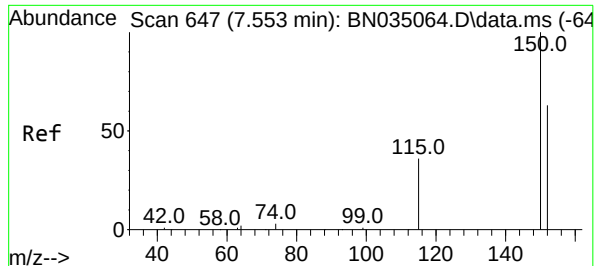
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 16:42:01 2024

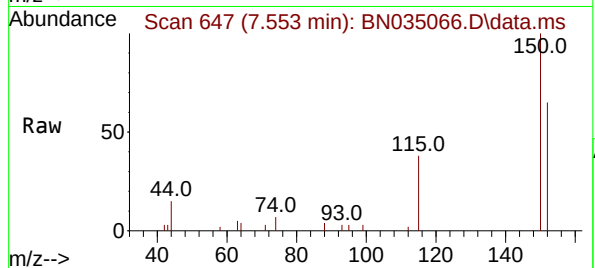
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

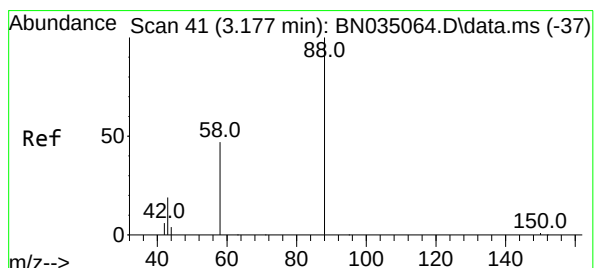
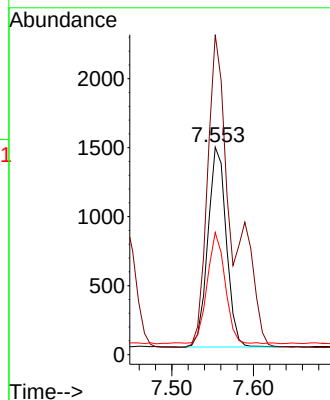
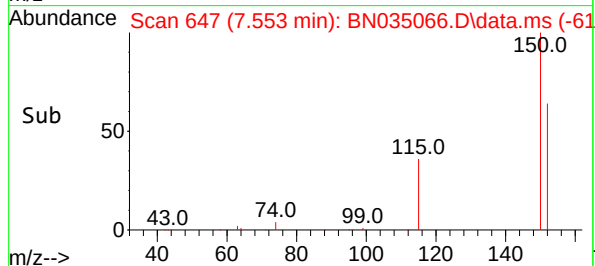
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 2280
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 58.9 47.8 71.6

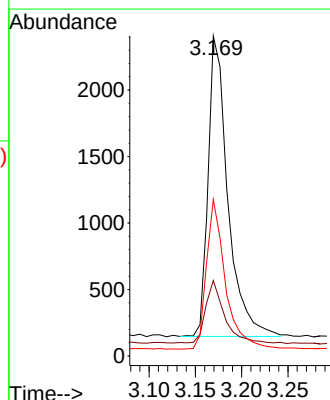
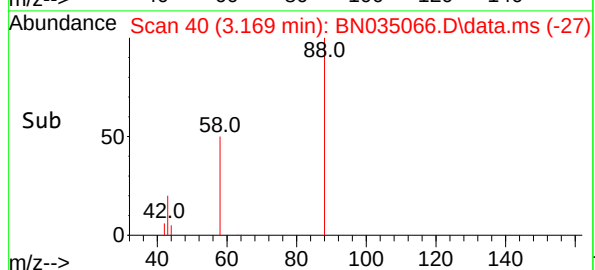
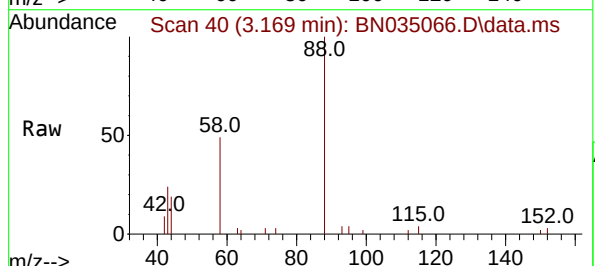
Manual Integrations
APPROVED

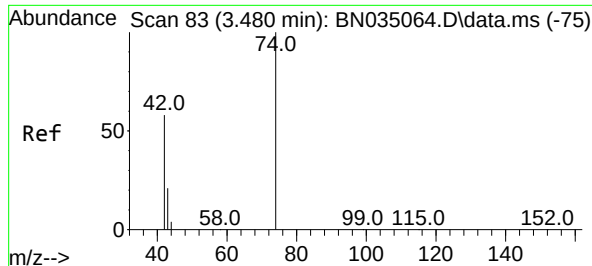
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 1.618 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

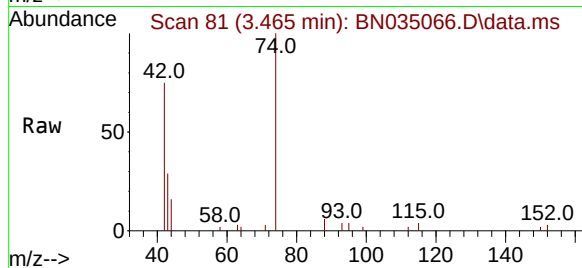
Tgt Ion: 88 Resp: 3351
Ion Ratio Lower Upper
88 100
43 20.3 16.9 25.3
58 47.7 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 1.647 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

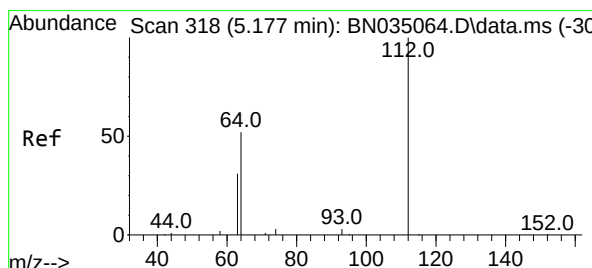
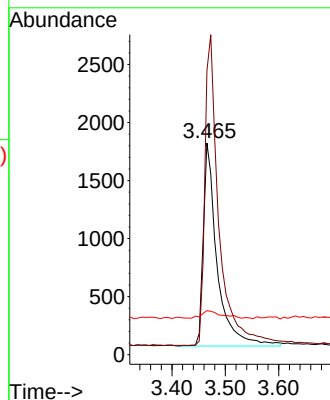
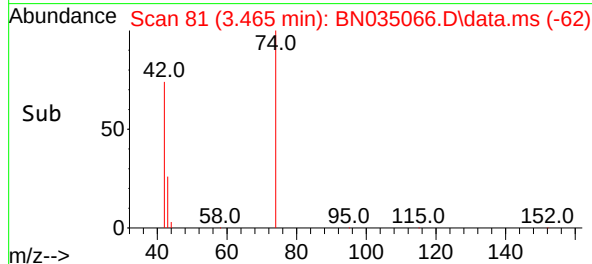
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion: 42 Resp: 3168
Ion Ratio Lower Upper
42 100
74 155.0 120.8 181.2
44 6.3 2.9 4.3

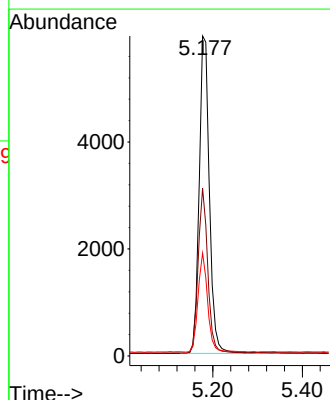
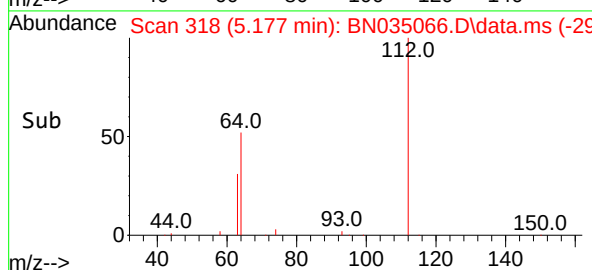
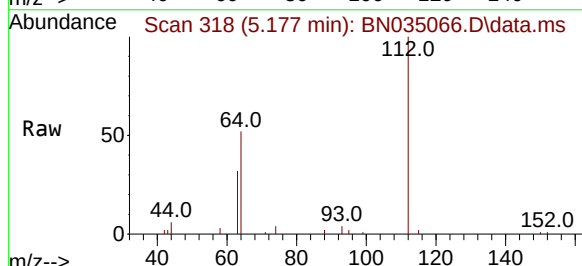
Manual Integrations
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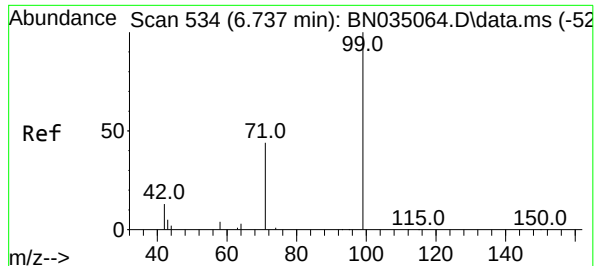
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 1.629 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:112 Resp: 9427
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 29.4 23.0 34.4





#5

Phenol-d6

Concen: 1.657 ng

RT: 6.737 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

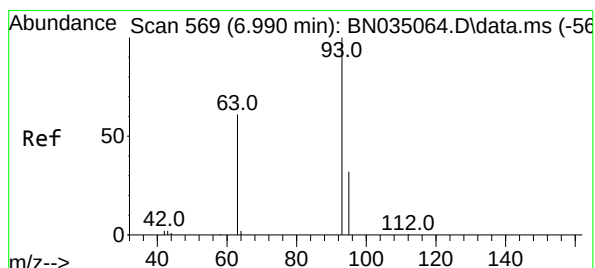
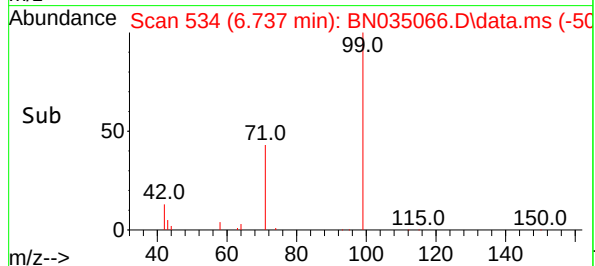
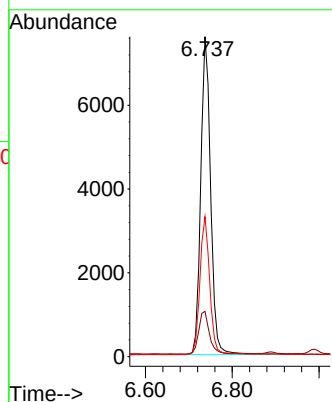
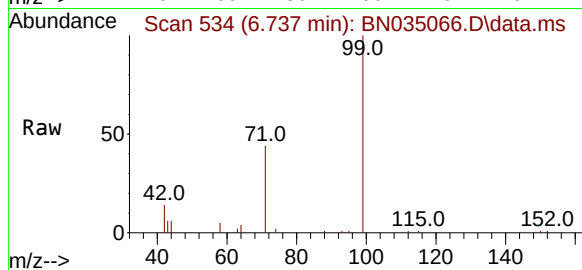
ClientSampleId :

SSTDICC1.6

Tgt Ion:	99	Resp:	1202
Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.0
71	42.9	34.6	51.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6

bis(2-Chloroethyl)ether

Concen: 1.665 ng

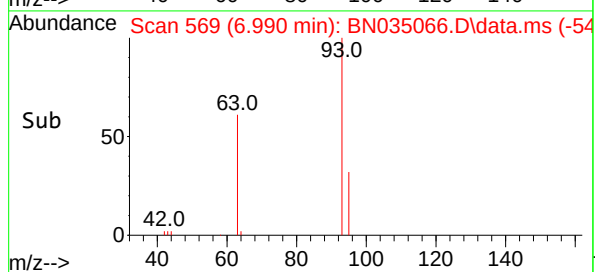
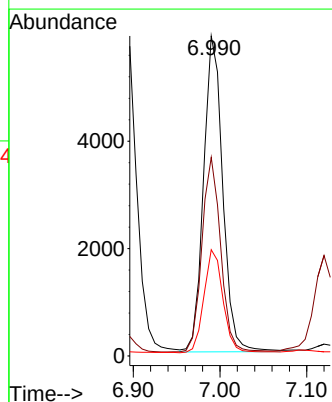
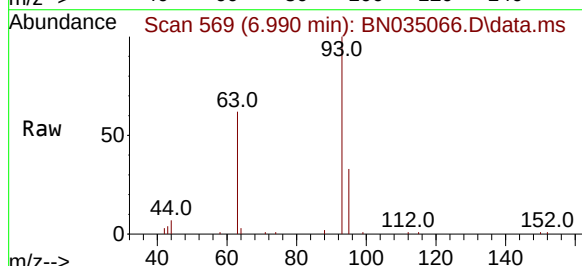
RT: 6.990 min Scan# 569

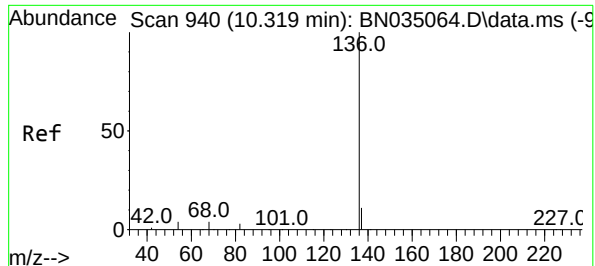
Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:	93	Resp:	9071
Ion	Ratio	Lower	Upper
93	100		
63	60.3	47.4	71.2
95	32.3	26.2	39.4





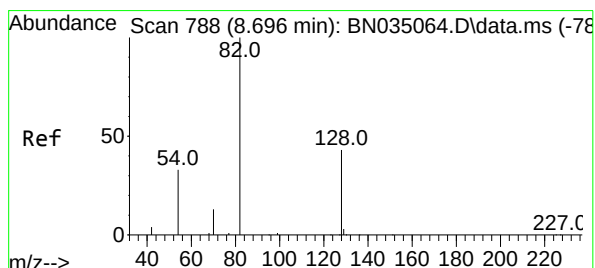
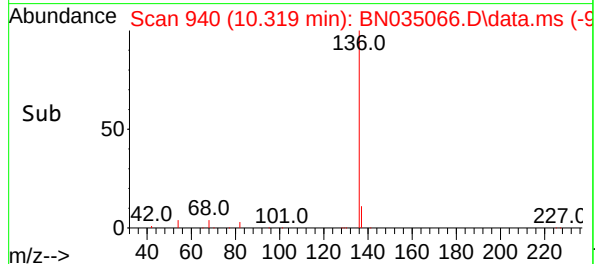
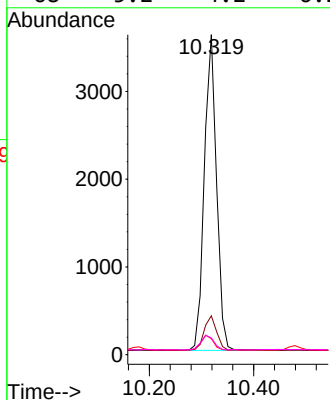
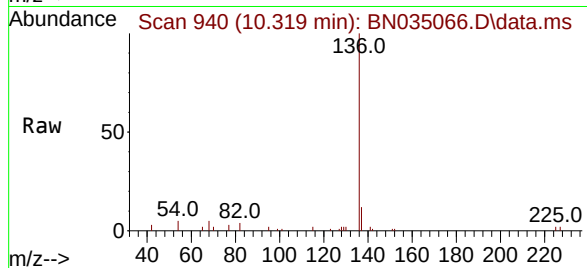
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:	136	Resp:	5820
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2

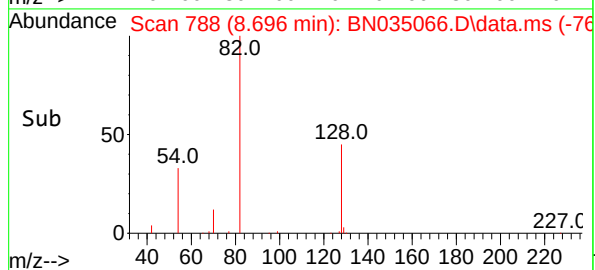
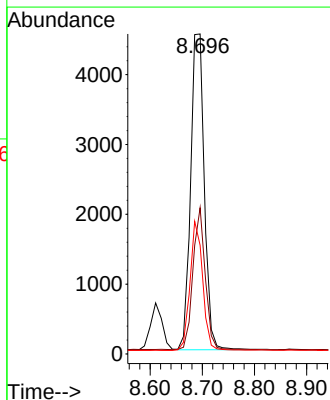
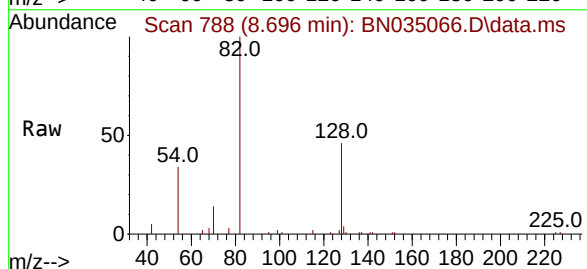
Manual Integrations
APPROVED

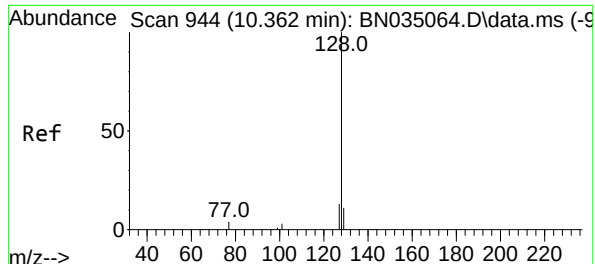
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 1.643 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:	82	Resp:	8306
Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.5	54.7
54	34.0	28.7	43.1





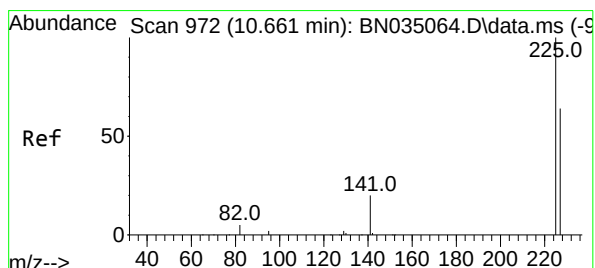
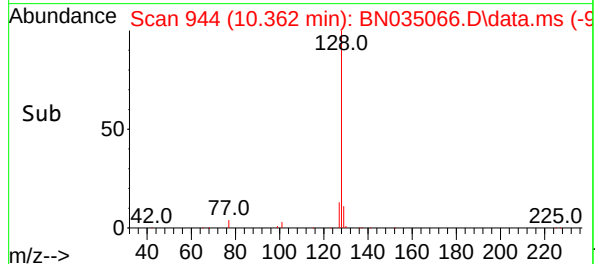
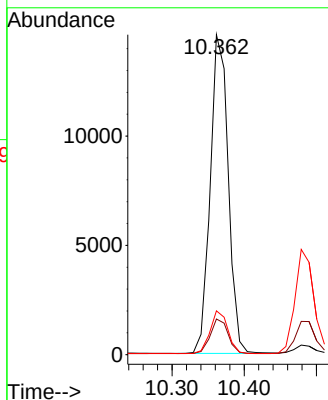
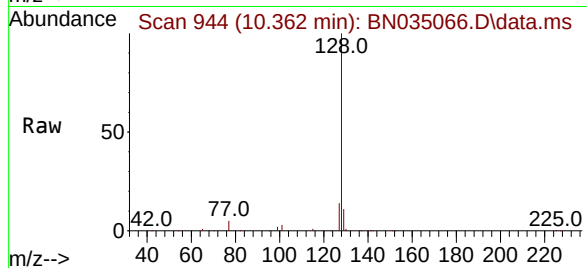
#9
Naphthalene
Concen: 1.662 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 2528
Ion Ratio Lower Upper
128 100
129 11.2 9.6 14.4
127 13.7 11.6 17.4

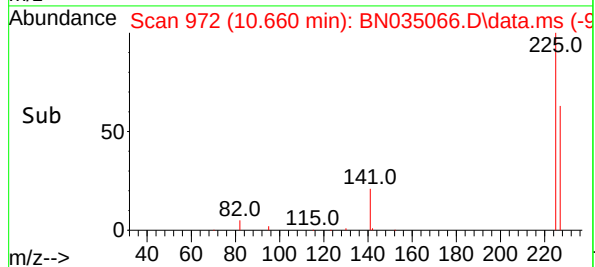
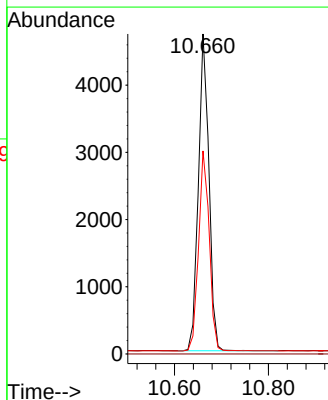
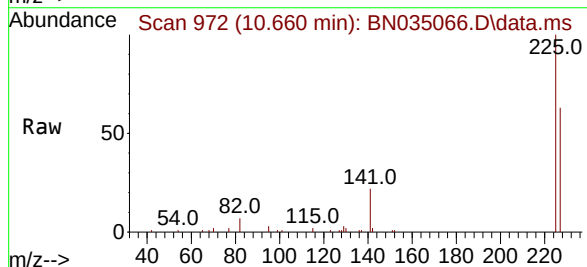
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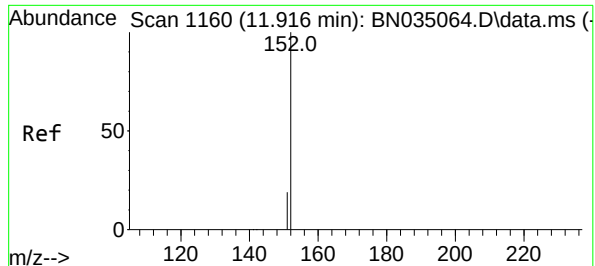
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#10
Hexachlorobutadiene
Concen: 1.646 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

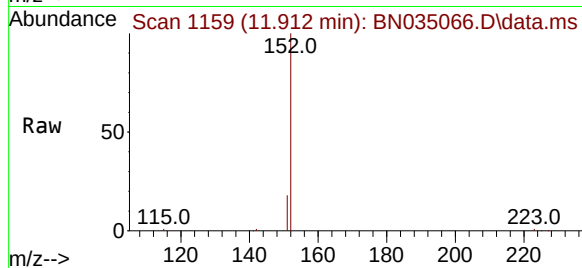
Tgt Ion:225 Resp: 7338
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.5 77.3





#11
2-Methylnaphthalene-d10
Concen: 1.690 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

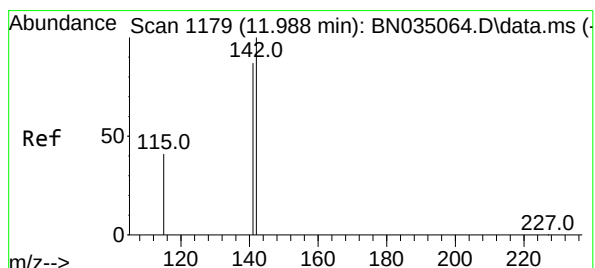
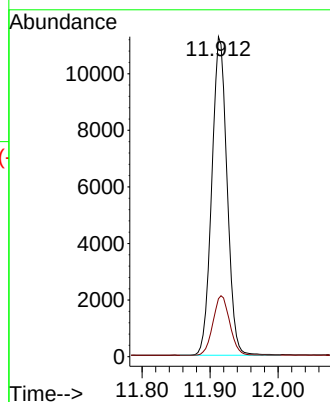
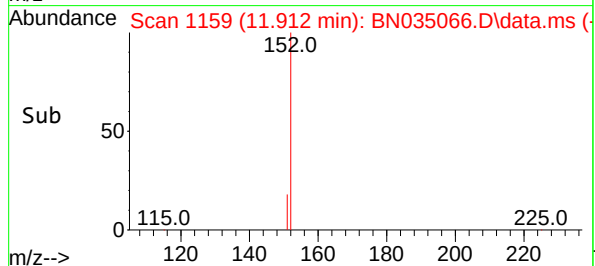
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 1754
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

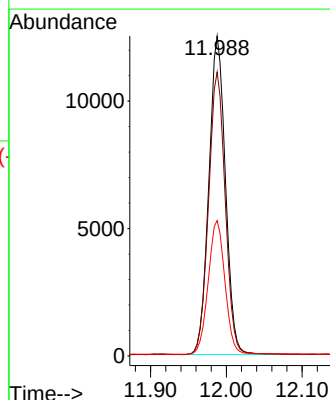
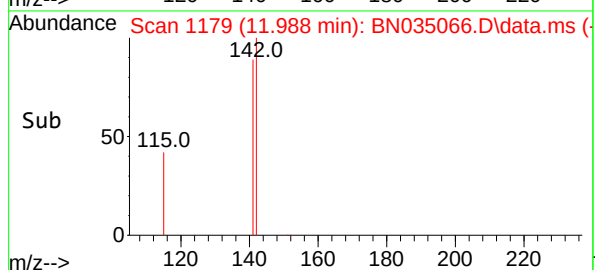
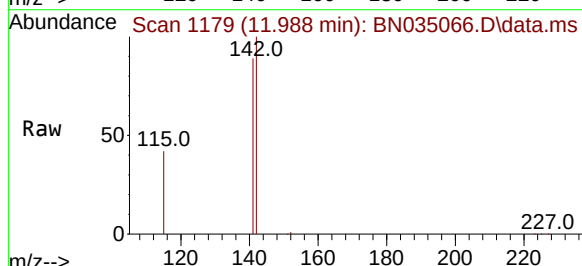
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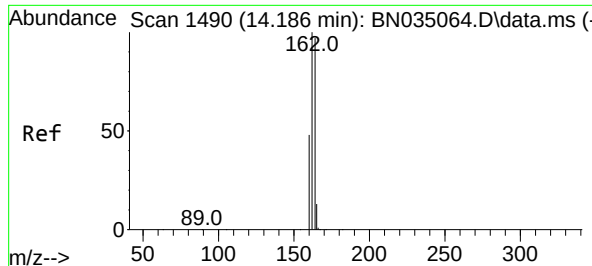
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#12
2-Methylnaphthalene
Concen: 1.693 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

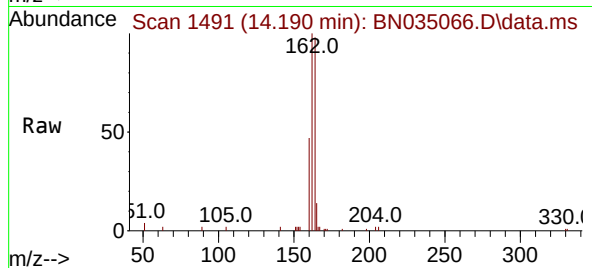
Tgt Ion:142 Resp: 18997
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 42.3 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

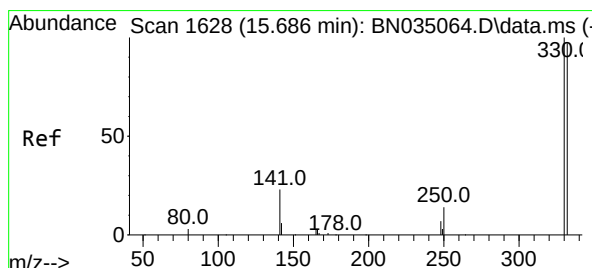
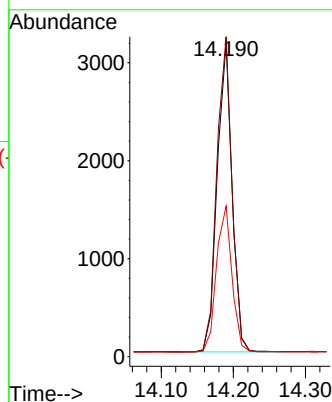
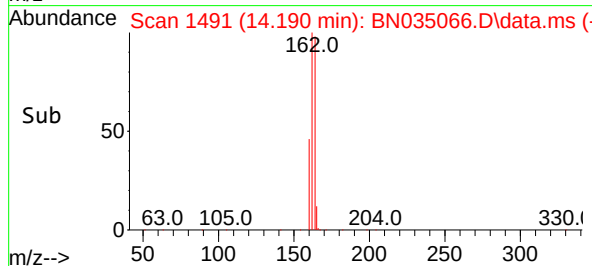
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



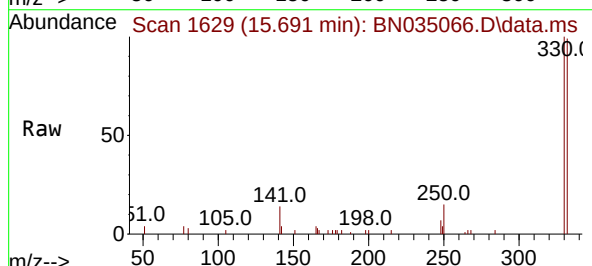
Tgt Ion:164 Resp: 451
Ion Ratio Lower Upper
164 100
162 101.8 82.2 123.2
160 47.9 40.2 60.4

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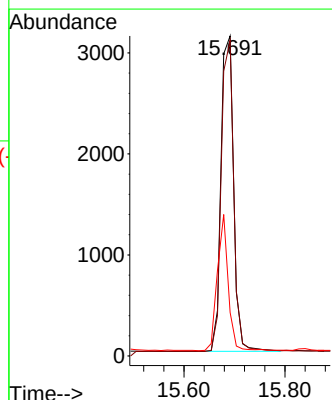
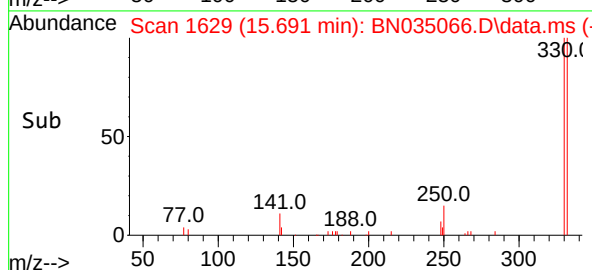
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

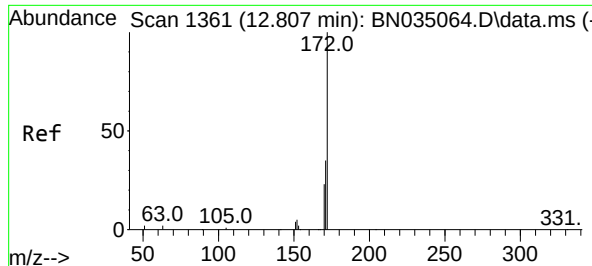


#14
2,4,6-Tribromophenol
Concen: 1.659 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04



Tgt Ion:330 Resp: 5402
Ion Ratio Lower Upper
330 100
332 96.8 76.9 115.3
141 37.2 29.6 44.4





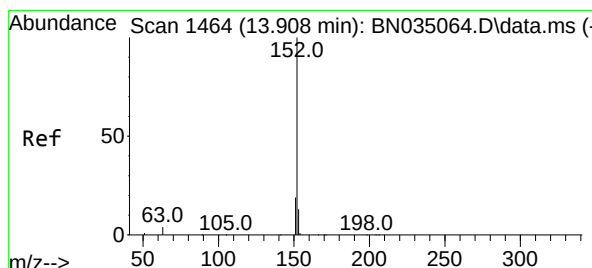
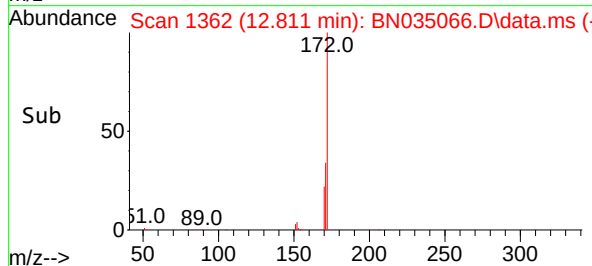
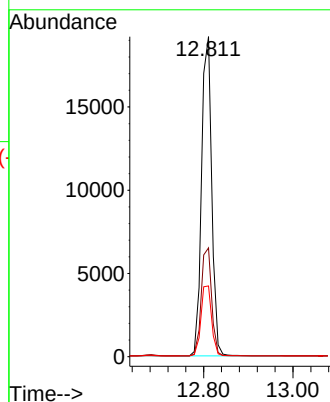
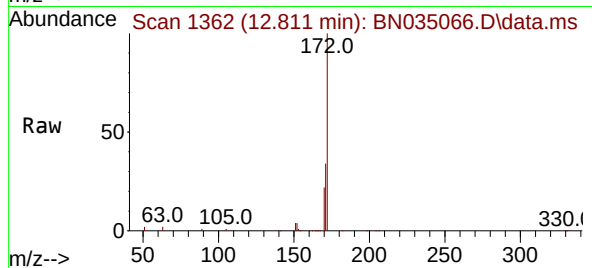
#15
2-Fluorobiphenyl
Concen: 1.661 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 30472
Ion Ratio Lower Upper
172 100
171 34.0 28.2 42.4
170 22.1 19.0 28.6

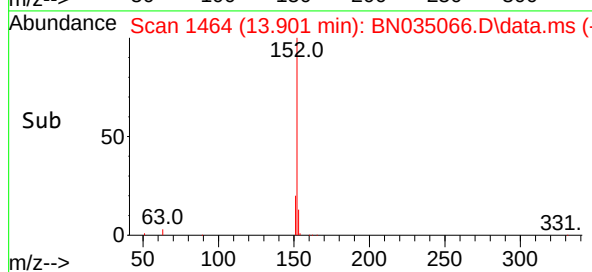
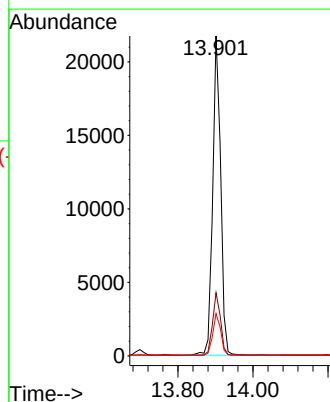
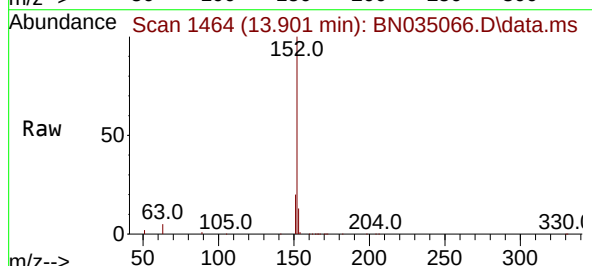
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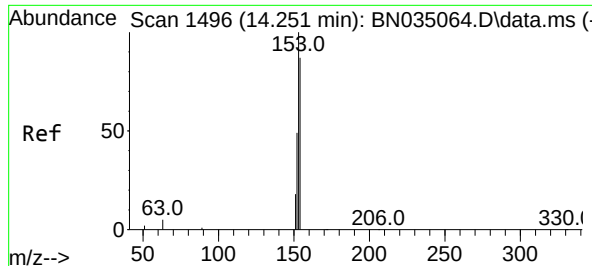
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#16
Acenaphthylene
Concen: 1.661 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:152 Resp: 32064
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.1 10.2 15.4





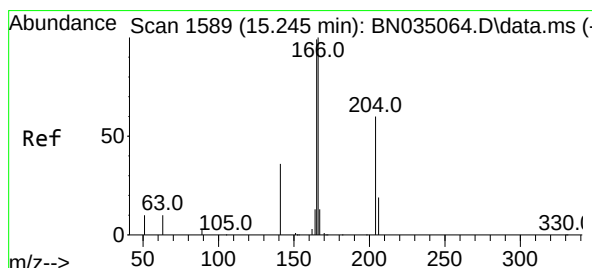
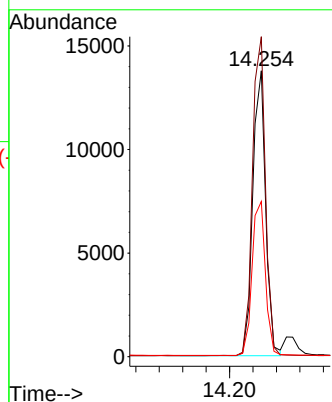
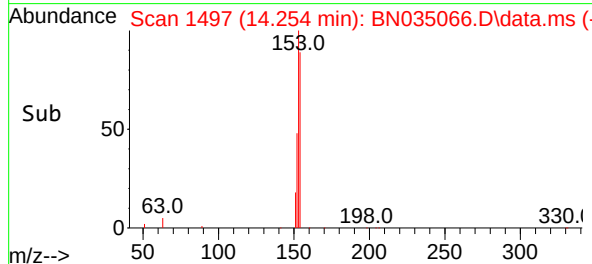
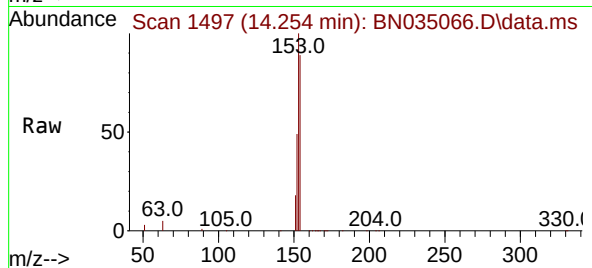
#17
Acenaphthene
Concen: 1.653 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 20910
Ion Ratio Lower Upper
154 100
153 113.4 91.6 137.4
152 56.5 45.8 68.6

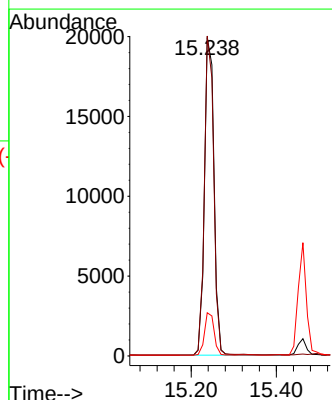
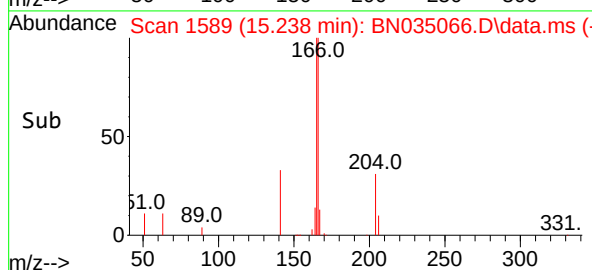
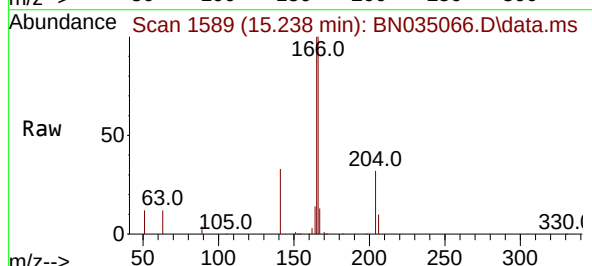
Manual Integrations
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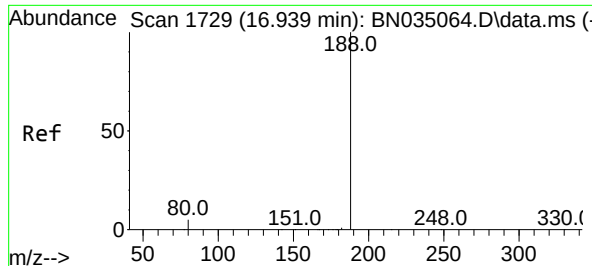
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 1.659 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:166 Resp: 30868
Ion Ratio Lower Upper
166 100
165 98.0 79.1 118.7
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

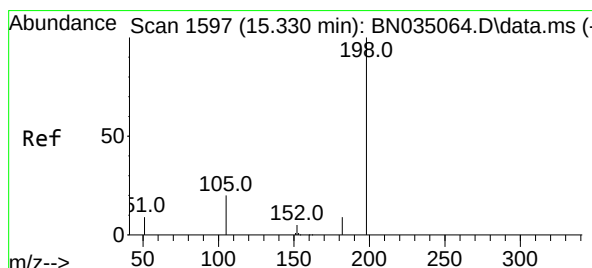
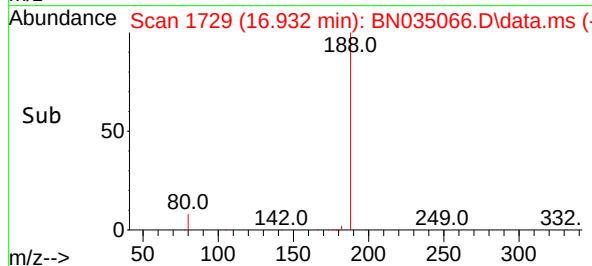
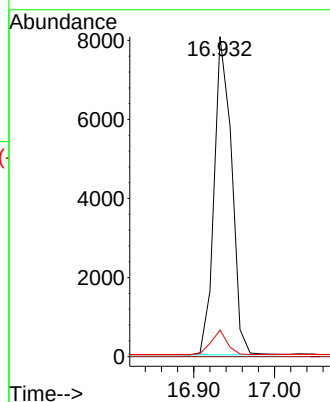
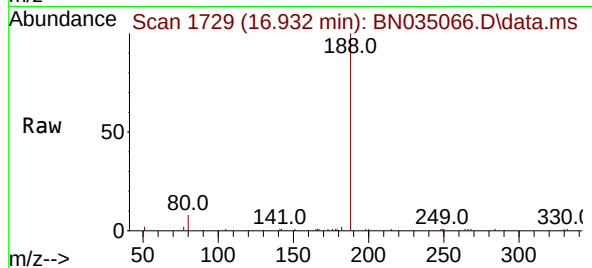
SSTDICC1.6

Tgt Ion:188	Resp:	12068
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.3	6.5

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 1.695 ng

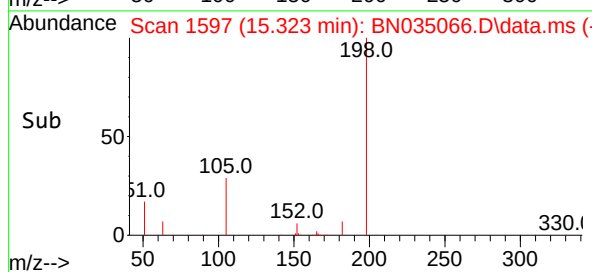
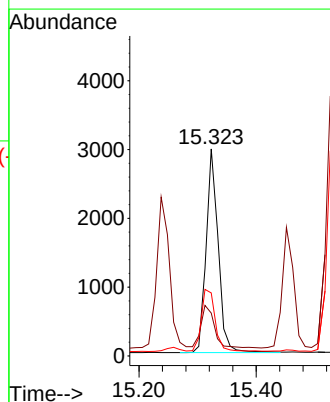
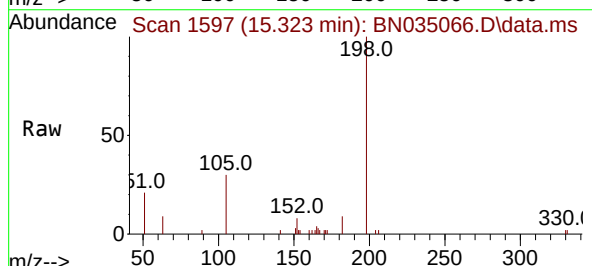
RT: 15.323 min Scan# 1597

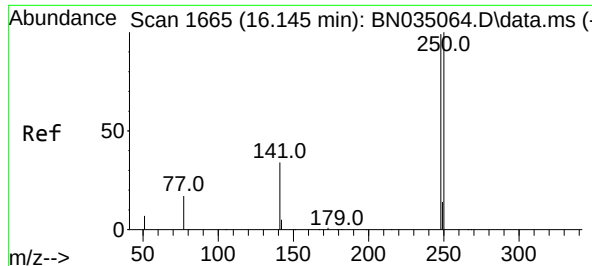
Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

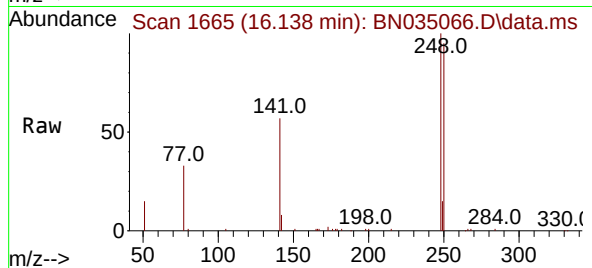
Tgt Ion:198	Resp:	4259
Ion Ratio	Lower	Upper
198	100	
51	20.7	29.9
105	30.5	44.9





#21
4-Bromophenyl-phenylether
Concen: 1.676 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

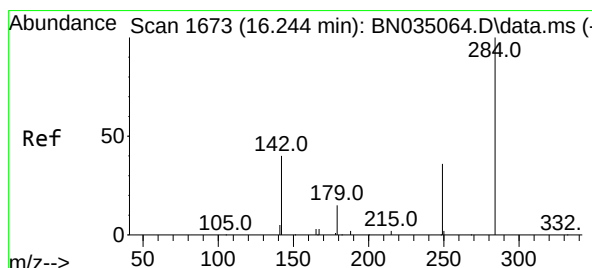
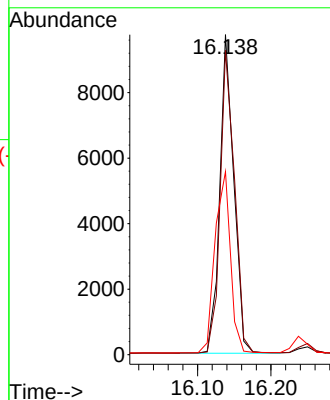
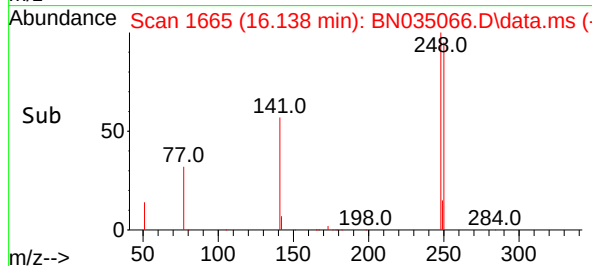
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:248 Resp: 1288
Ion Ratio Lower Upper
248 100
250 95.0 81.2 121.8
141 57.2 29.1 43.7

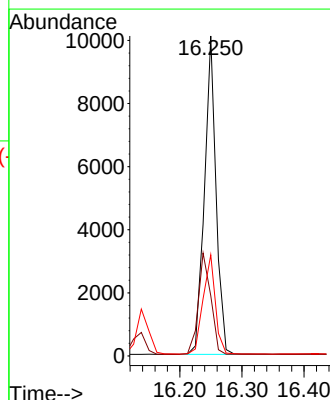
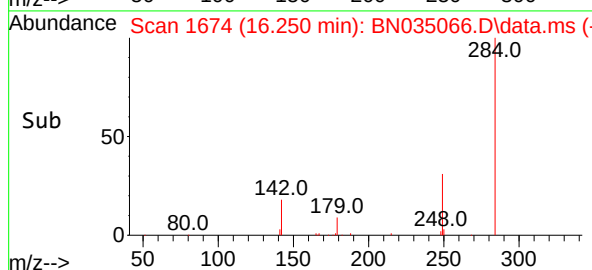
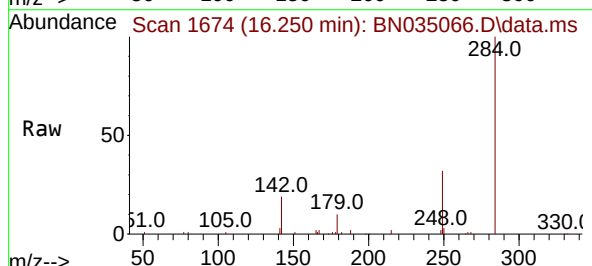
Manual Integrations
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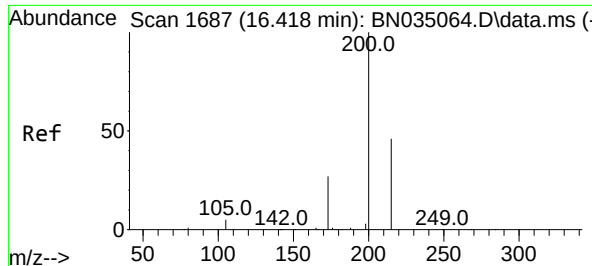
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#22
Hexachlorobenzene
Concen: 1.651 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:284 Resp: 13172
Ion Ratio Lower Upper
284 100
142 34.0 28.2 42.4
249 32.5 26.2 39.2





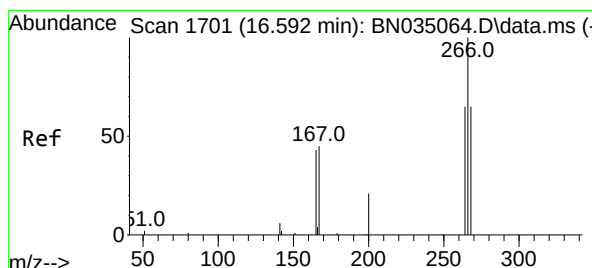
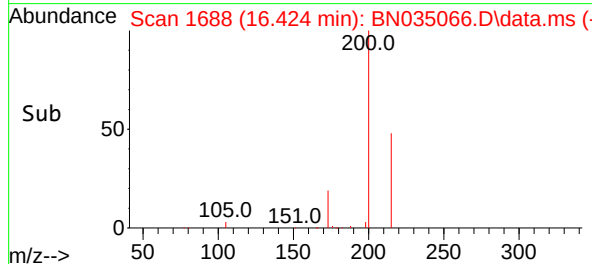
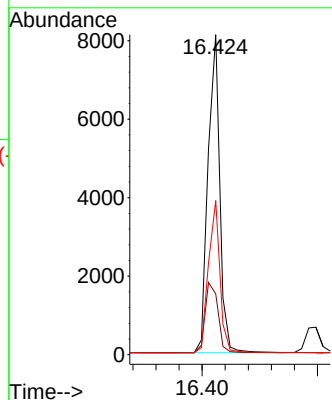
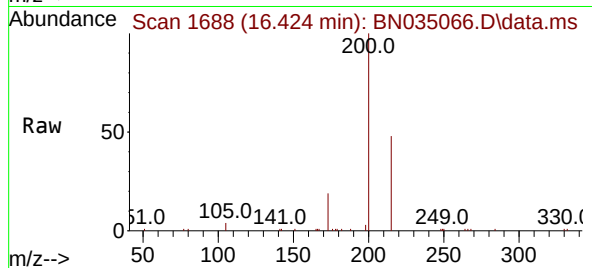
#23
Atrazine
Concen: 1.663 ng
RT: 16.424 min Scan# 1147
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 1147
Ion Ratio Lower Upper
200 100
173 19.0 22.6 33.8
215 48.2 37.8 56.6

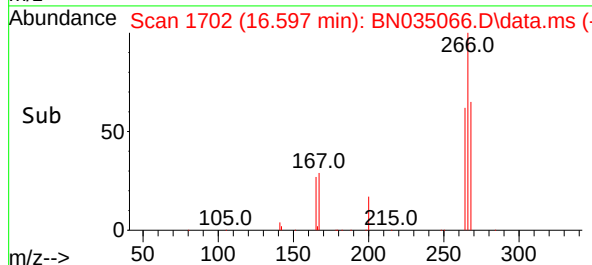
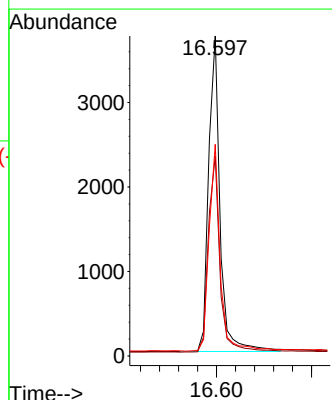
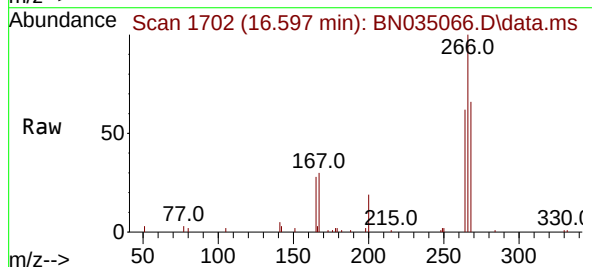
Manual Integrations
APPROVED

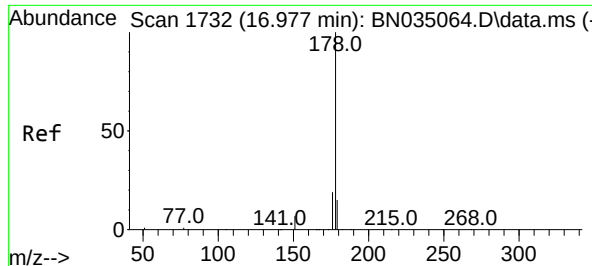
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#24
Pentachlorophenol
Concen: 1.683 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

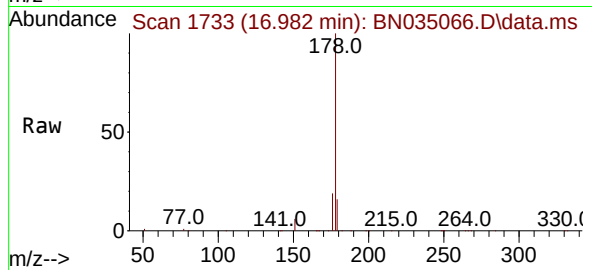
Tgt Ion:266 Resp: 6275
Ion Ratio Lower Upper
266 100
264 63.2 49.4 74.0
268 63.7 52.6 79.0





#25
Phenanthrene
Concen: 1.666 ng
RT: 16.982 min Scan# 1733
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

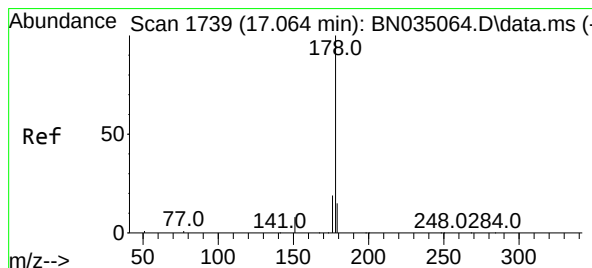
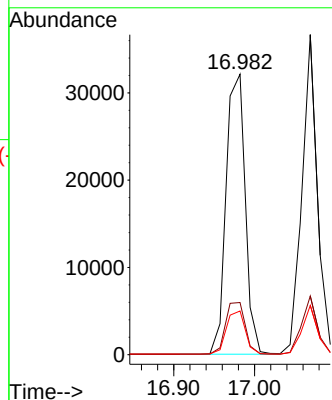
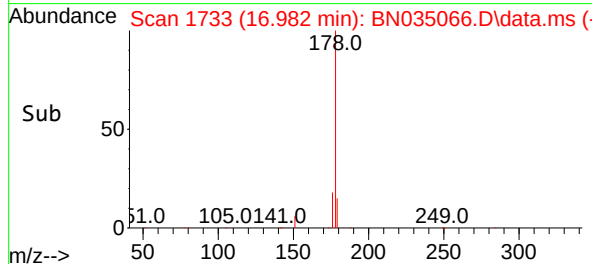
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:178 Resp: 52915
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.3 12.6 18.8

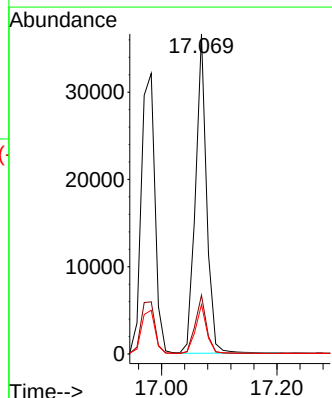
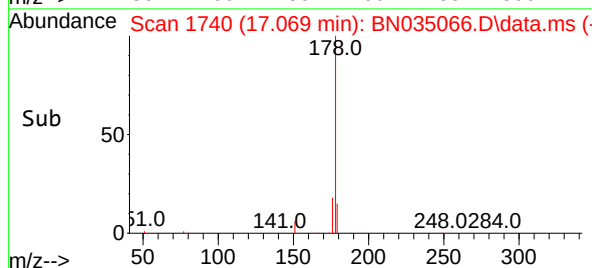
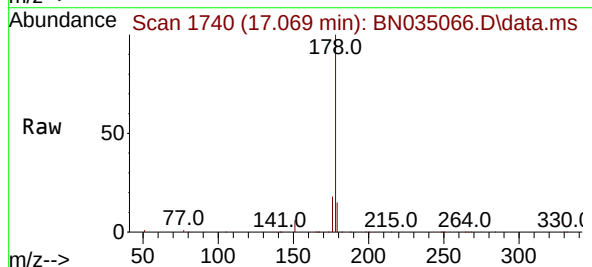
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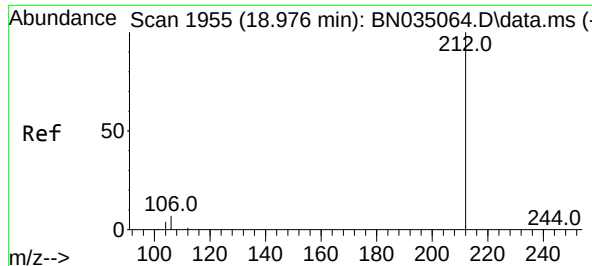
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 1.681 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:178 Resp: 49046
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 1.676 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

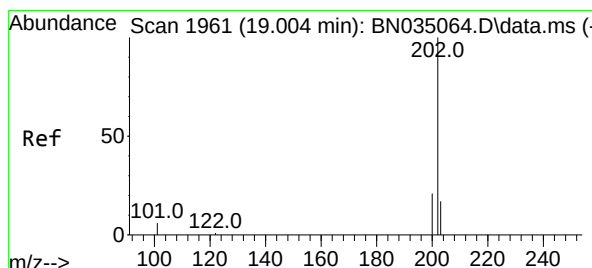
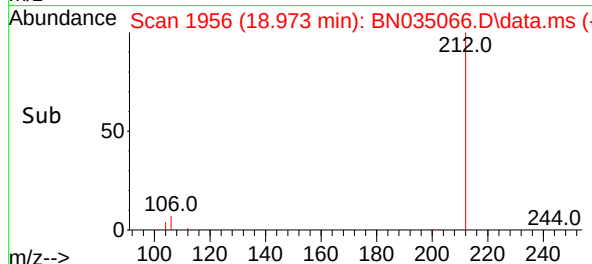
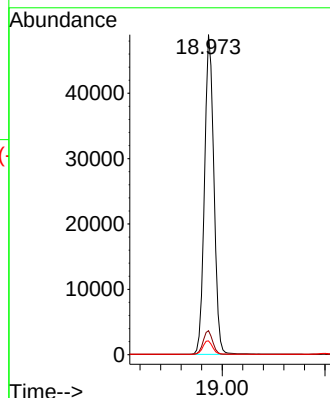
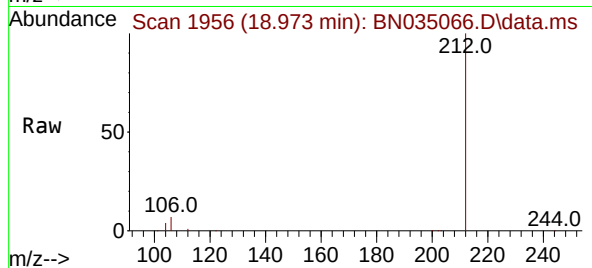
ClientSampleId :

SSTDICC1.6

Tgt Ion:	212	Resp:	61972
Ion Ratio	Lower	Upper	
212	100		
106	7.5	6.0	9.0
104	4.3	3.5	5.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#28

Fluoranthene

Concen: 1.687 ng

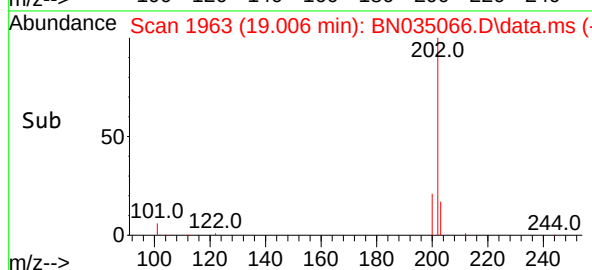
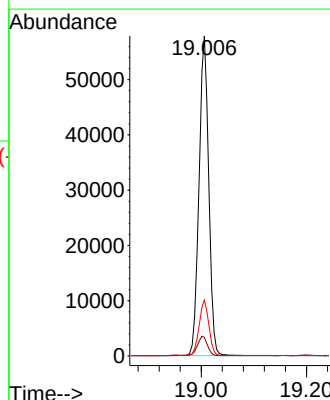
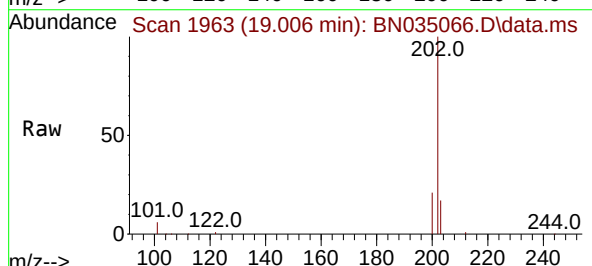
RT: 19.006 min Scan# 1963

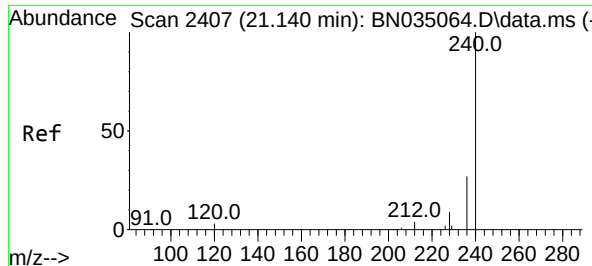
Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:	202	Resp:	73694
Ion Ratio	Lower	Upper	
202	100		
101	6.3	5.2	7.8
203	17.4	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

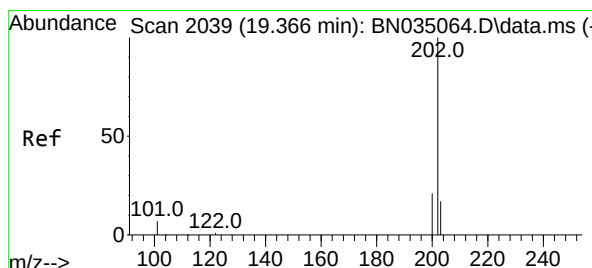
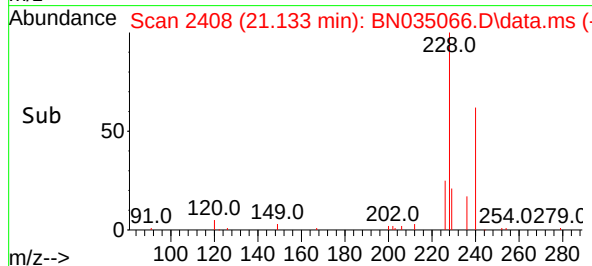
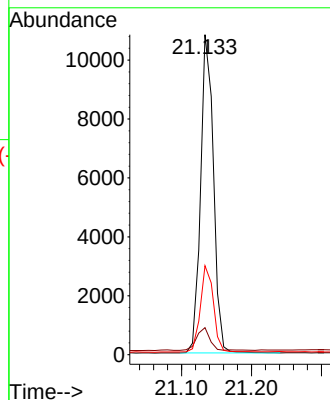
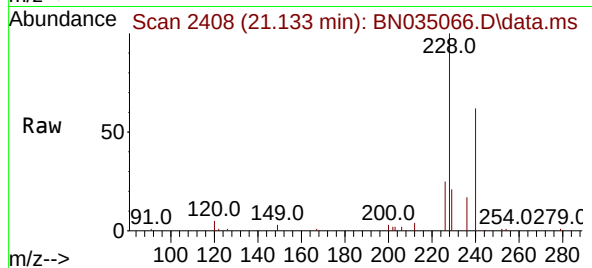
SSTDICC1.6

Tgt Ion:240 Resp: 1382

Ion	Ratio	Lower	Upper
240	100		
120	8.5	3.8	5.6
236	27.8	22.2	33.2

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 1.641 ng

RT: 19.368 min Scan# 2041

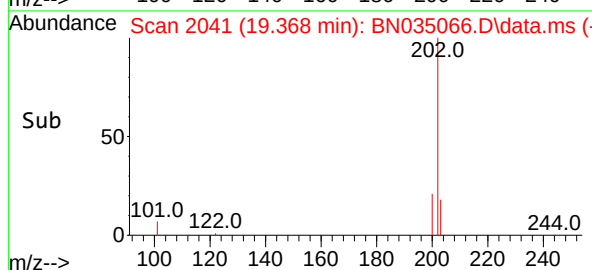
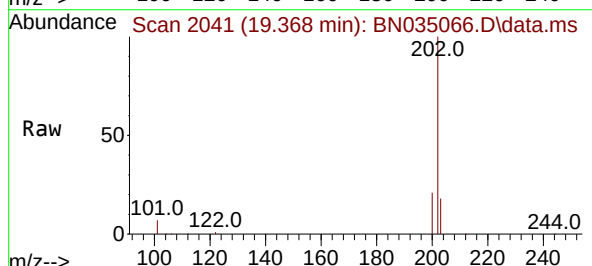
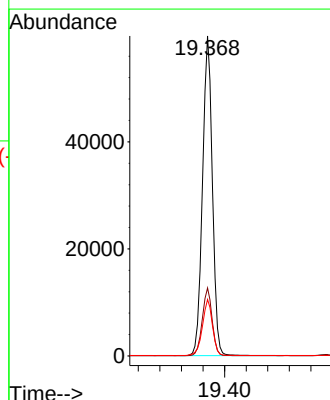
Delta R.T. 0.002 min

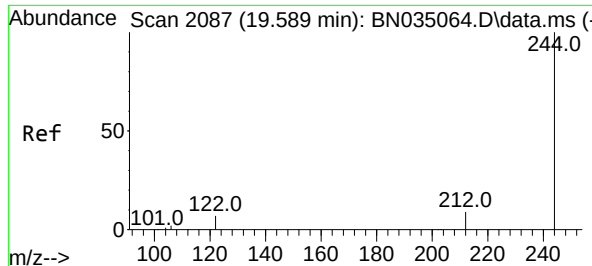
Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 75558

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4





#31
Terphenyl-d14
Concen: 1.652 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

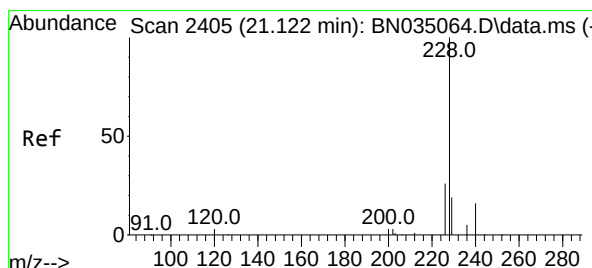
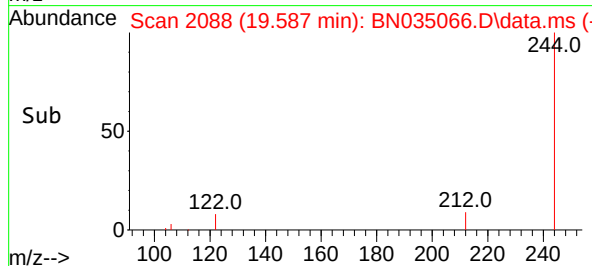
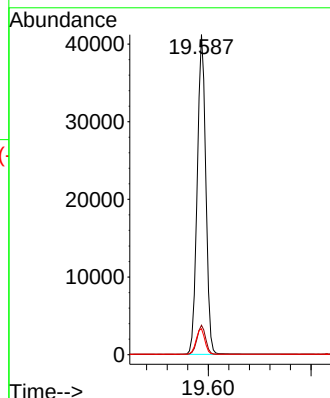
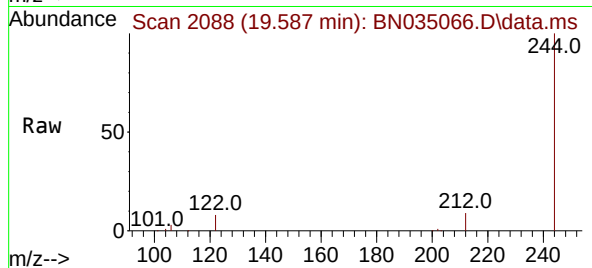
ClientSampleId :

SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.6	11.4
122	8.1	6.1	9.1

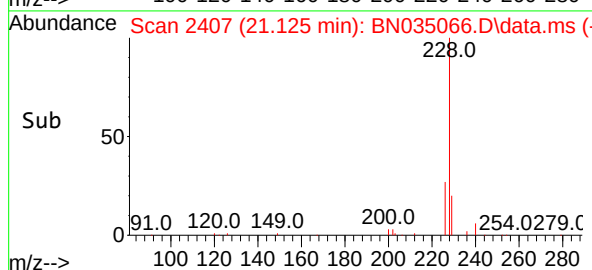
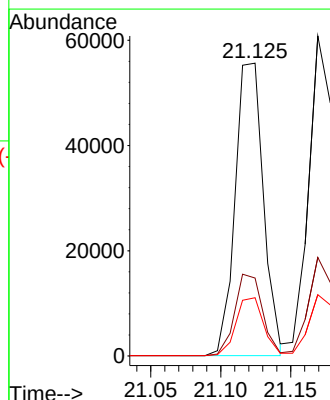
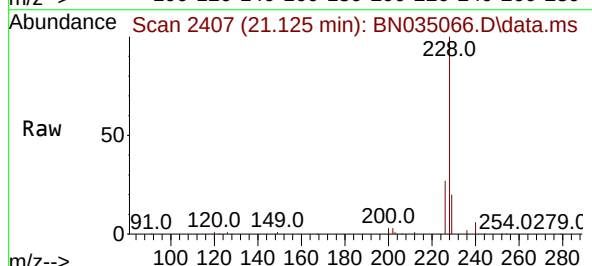
Manual Integrations
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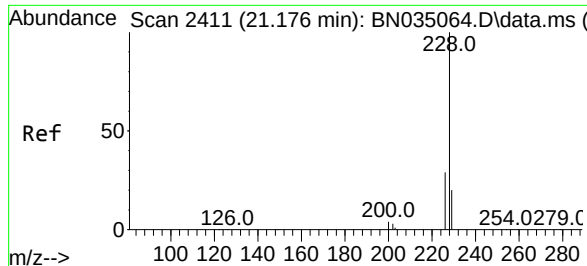
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 1.627 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.4	32.0
229	19.9	15.7	23.5





#33

Chrysene

Concen: 1.647 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:228 Resp: 7853

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

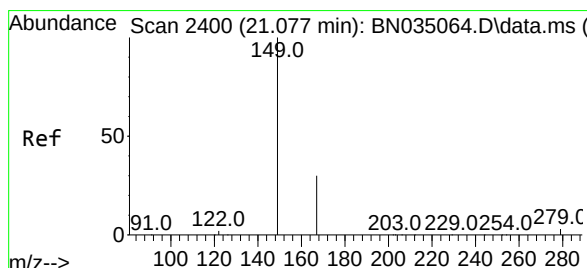
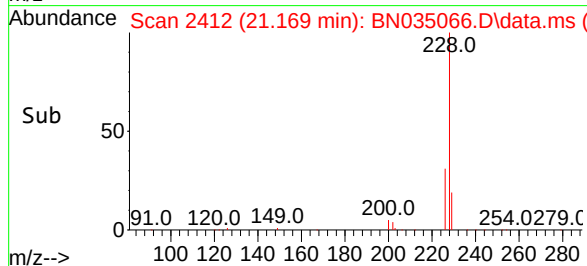
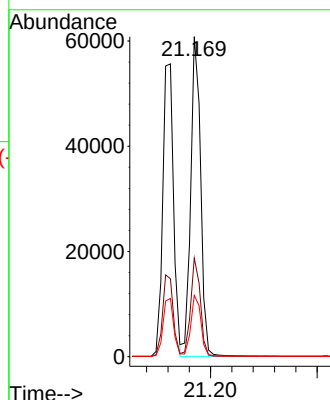
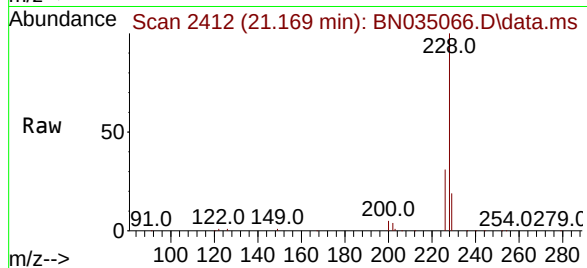
229 19.2 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.549 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

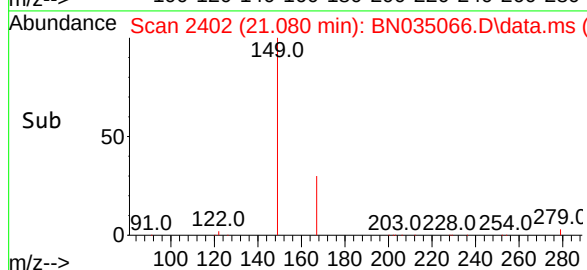
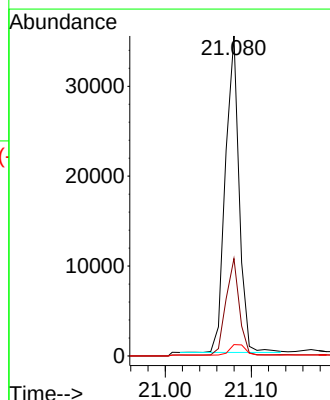
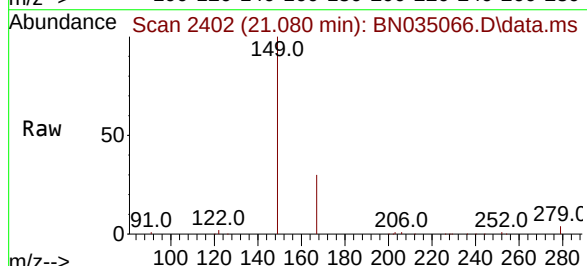
Tgt Ion:149 Resp: 38807

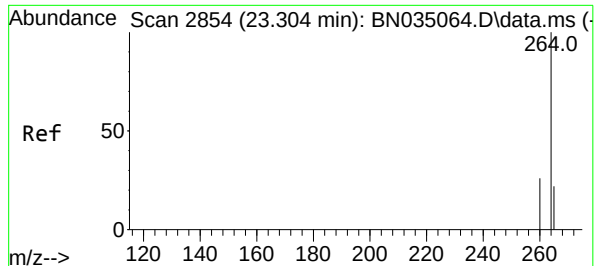
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:264 Resp: 15060

Ion Ratio Lower Upper

264 100

260 26.0 20.9 31.3

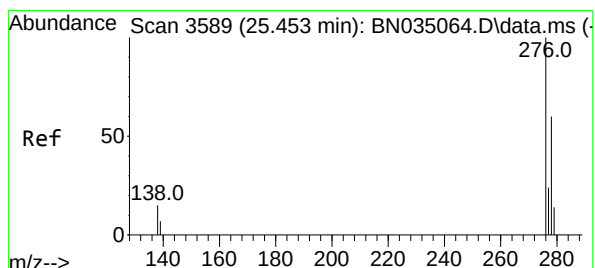
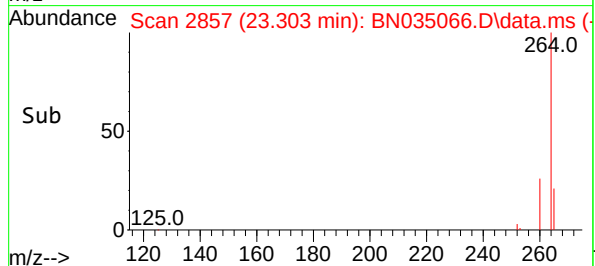
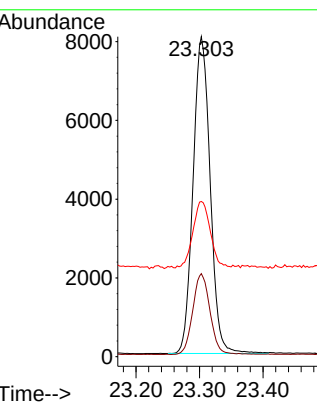
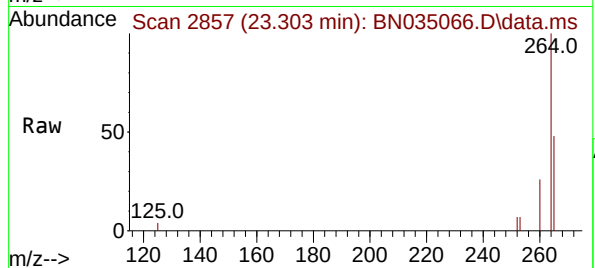
265 48.5 35.4 53.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.663 ng

RT: 25.452 min Scan# 3592

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

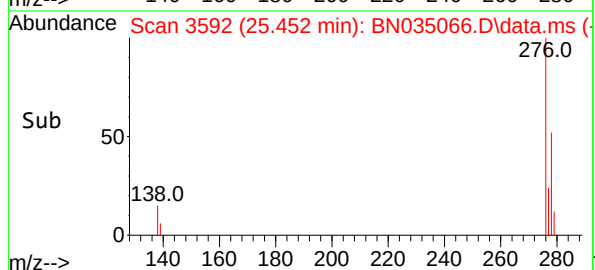
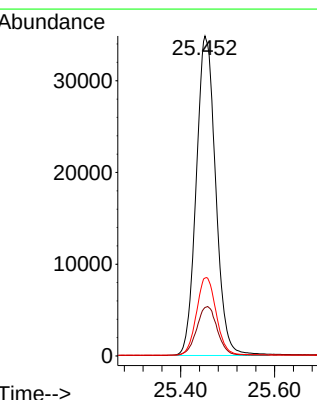
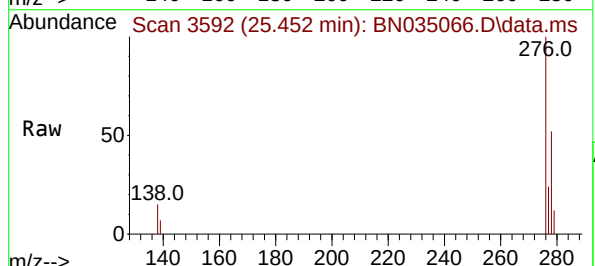
Tgt Ion:276 Resp: 99936

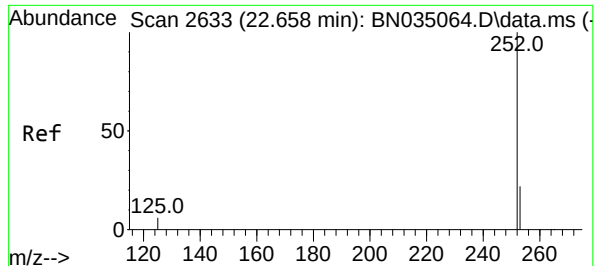
Ion Ratio Lower Upper

276 100

138 16.1 13.0 19.4

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.686 ng m

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:252 Resp: 85420

Ion Ratio Lower Upper

252 100

253 22.2 19.3 28.9

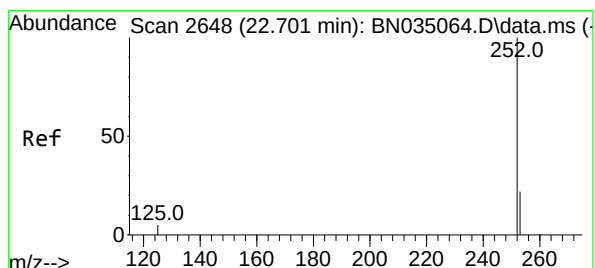
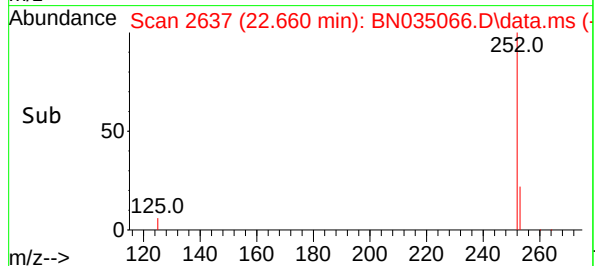
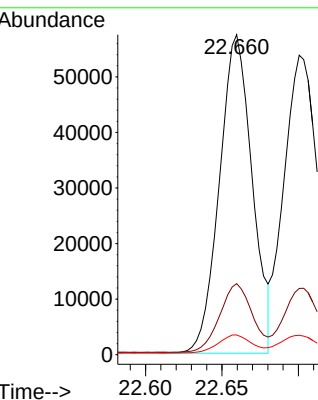
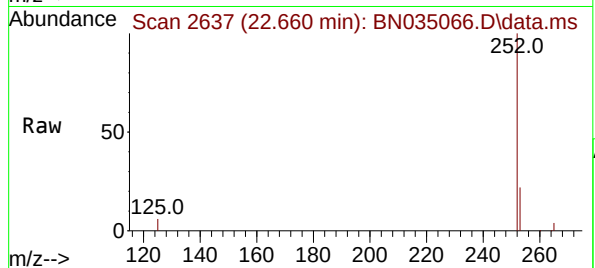
125 6.1 6.2 9.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 1.676 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

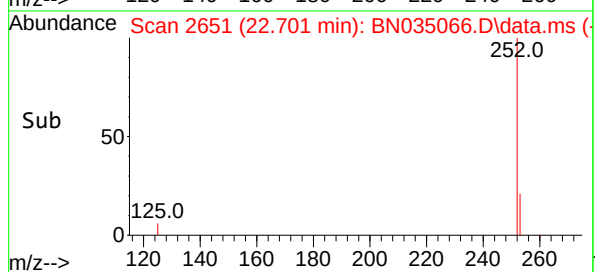
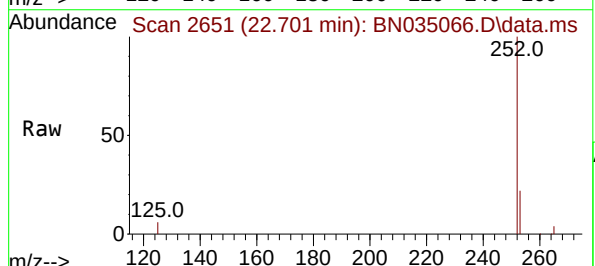
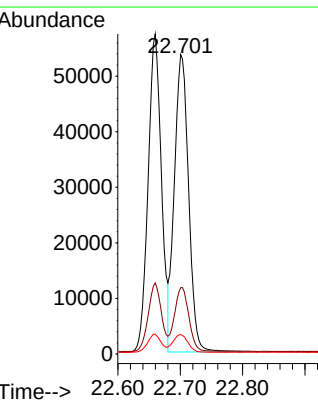
Tgt Ion:252 Resp: 84960

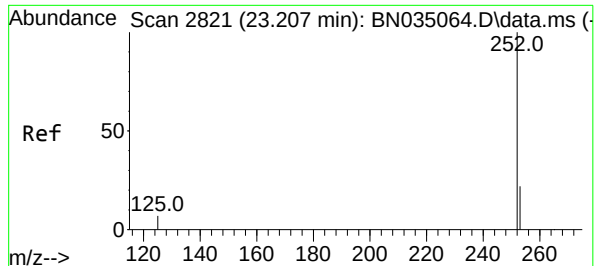
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

125 6.5 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 1.675 ng

RT: 23.209 min Scan# 2825

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

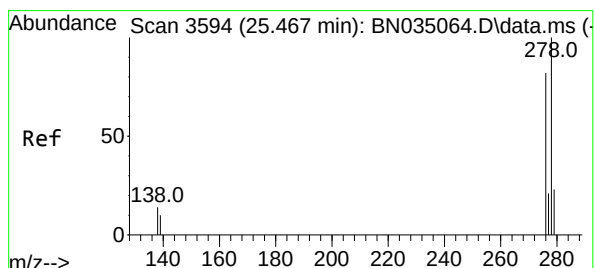
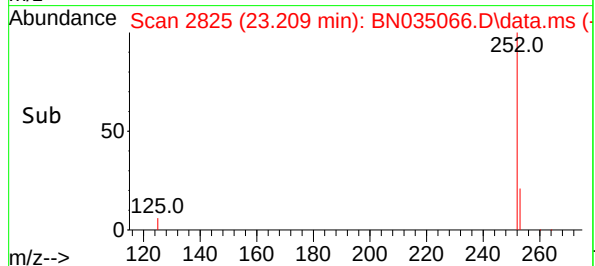
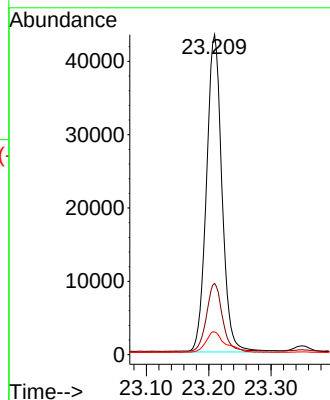
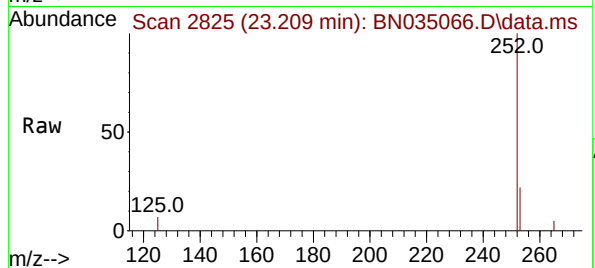
ClientSampleId :

SSTDICC1.6

Tgt Ion:	252	Resp:	7466
Ion Ratio	Lower	Upper	
252	100		
253	22.3	20.1	30.1
125	7.1	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 1.673 ng

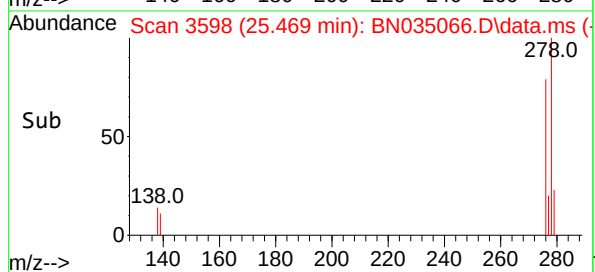
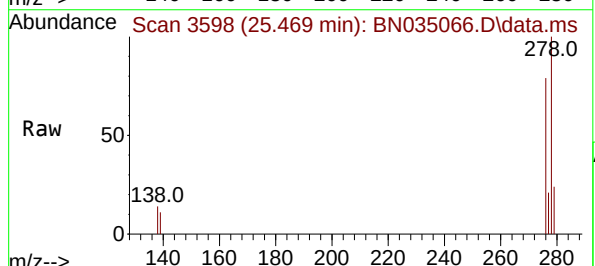
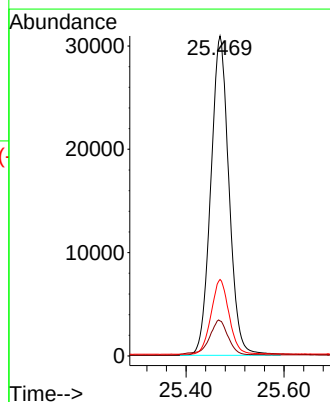
RT: 25.469 min Scan# 3598

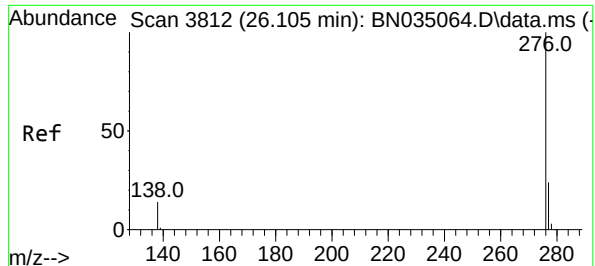
Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:	278	Resp:	79628
Ion Ratio	Lower	Upper	
278	100		
139	10.9	9.3	13.9
279	23.9	19.7	29.5





#41

Benzo(g,h,i)perylene

Concen: 1.649 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035066.D

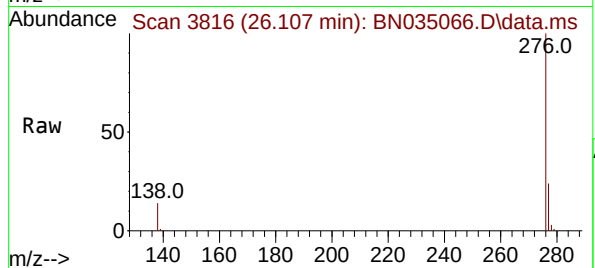
Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:276 Resp: 83498

Ion Ratio Lower Upper

276 100

277 23.7 19.9 29.9

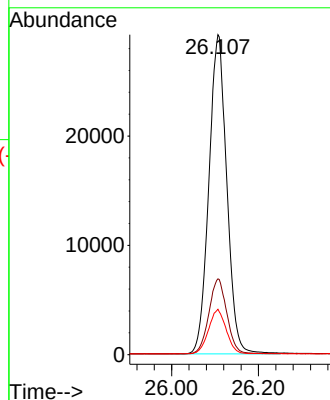
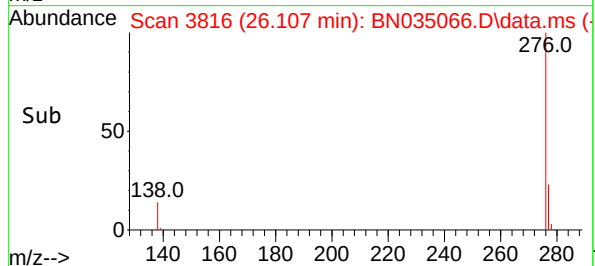
138 14.2 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035067.D
 Acq On : 13 Nov 2024 15:39
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 16:45:11 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 16:42:01 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2920	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	7487	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5593	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	14864	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	17096	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	18582	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	22571	3.045	ng	0.00
5) Phenol-d6	6.737	99	29328	3.155	ng	0.00
8) Nitrobenzene-d5	8.696	82	20578	3.167	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	42128	3.157	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	13778	3.417	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	71543	3.150	ng	0.00
27) Fluoranthene-d10	18.973	212	145321	3.191	ng	0.00
31) Terphenyl-d14	19.587	244	111732	3.115	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	8131	3.066	ng	99
3) n-Nitrosodimethylamine	3.465	42	7509	3.049	ng	# 93
6) bis(2-Chloroethyl)ether	6.990	93	21619	3.099	ng	99
9) Naphthalene	10.362	128	60468	3.093	ng	98
10) Hexachlorobutadiene	10.660	225	17300	3.019	ng	# 99
12) 2-Methylnaphthalene	11.988	142	45806	3.176	ng	98
16) Acenaphthylene	13.901	152	78553	3.286	ng	99
17) Acenaphthene	14.254	154	50542	3.227	ng	98
18) Fluorene	15.238	166	74092	3.215	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	11328	3.661	ng	# 83
21) 4-Bromophenyl-phenylether	16.138	248	30013	3.169	ng	# 85
22) Hexachlorobenzene	16.250	284	30635	3.117	ng	99
23) Atrazine	16.424	200	26567	3.127	ng	# 93
24) Pentachlorophenol	16.597	266	16789	3.656	ng	98
25) Phenanthrene	16.982	178	123000	3.144	ng	99
26) Anthracene	17.069	178	117301	3.265	ng	100
28) Fluoranthene	19.006	202	172759	3.212	ng	100
30) Pyrene	19.368	202	177937	3.125	ng	100
32) Benzo(a)anthracene	21.125	228	185345	3.114	ng	99
33) Chrysene	21.169	228	182053	3.087	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	94826	3.061	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	230419	3.108	ng	100
37) Benzo(b)fluoranthene	22.660	252	197259m	3.155	ng	
38) Benzo(k)fluoranthene	22.701	252	196686	3.144	ng	# 95
39) Benzo(a)pyrene	23.209	252	173547	3.155	ng	# 93
40) Dibenzo(a,h)anthracene	25.466	278	183641	3.127	ng	98
41) Benzo(g,h,i)perylene	26.107	276	192341	3.079	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035067.D
 Acq On : 13 Nov 2024 15:39
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

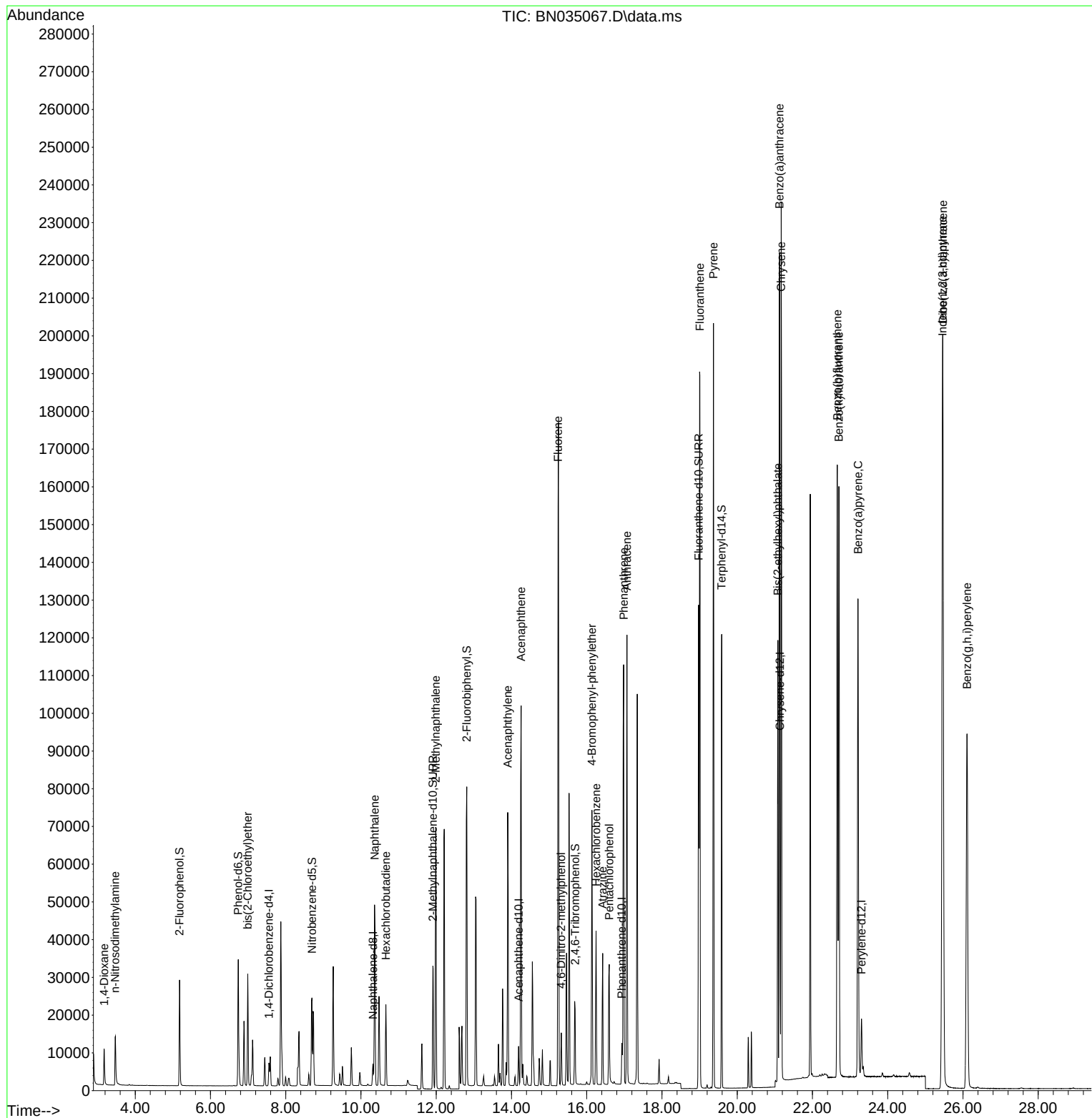
Manual Integrations

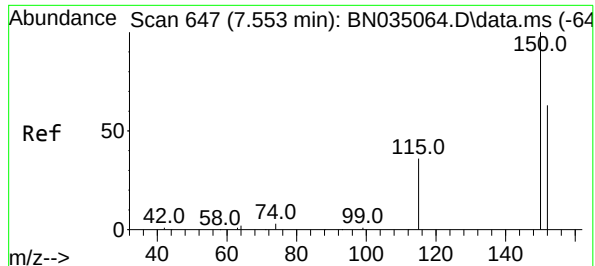
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

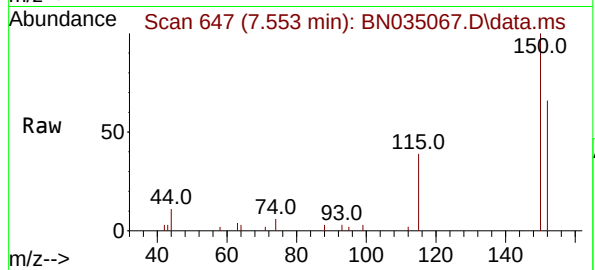
Quant Time: Nov 13 16:45:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

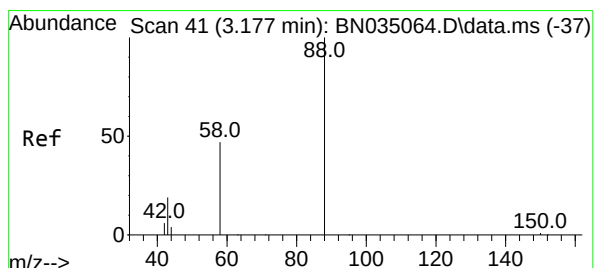
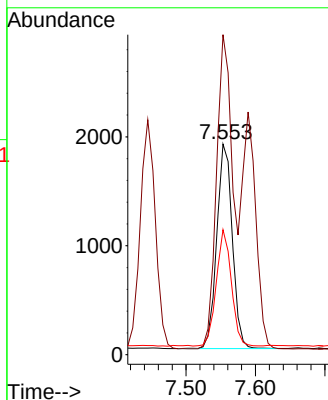
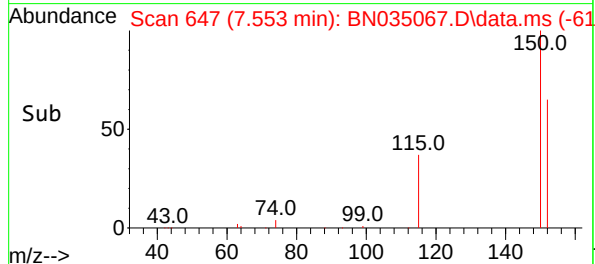
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 152 Resp: 2920
Ion Ratio Lower Upper
152 100
150 152.0 124.5 186.7
115 59.4 47.8 71.6

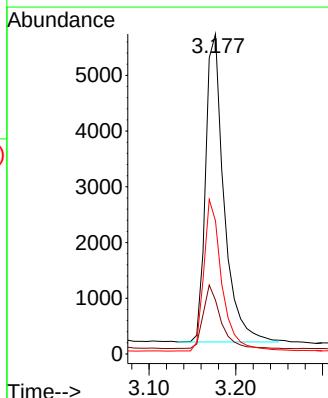
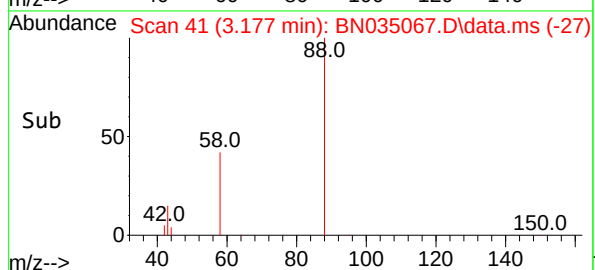
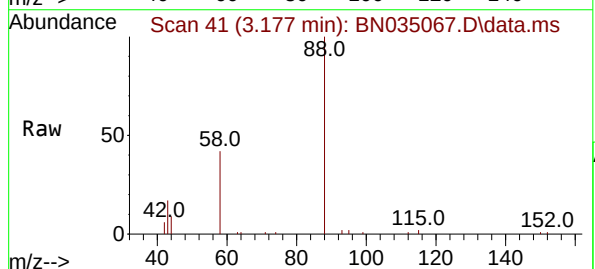
Manual Integrations
APPROVED

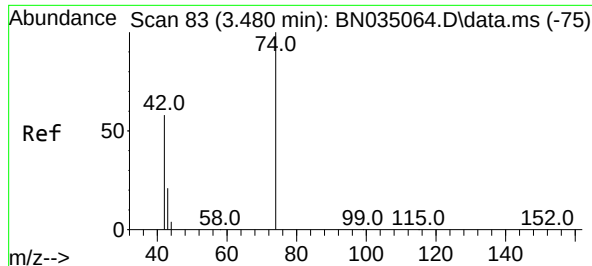
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 3.066 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 88 Resp: 8131
Ion Ratio Lower Upper
88 100
43 19.5 16.9 25.3
58 48.4 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 3.049 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

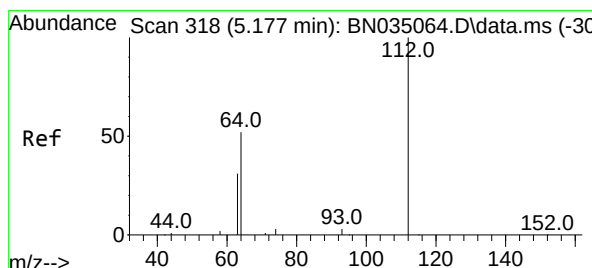
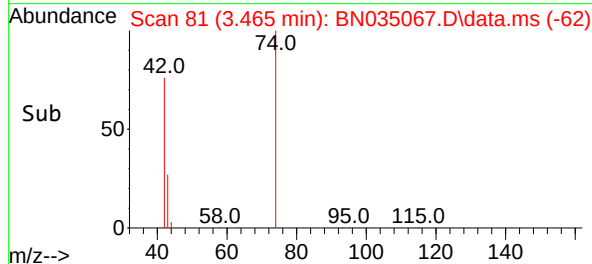
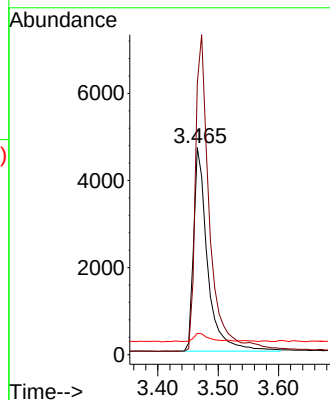
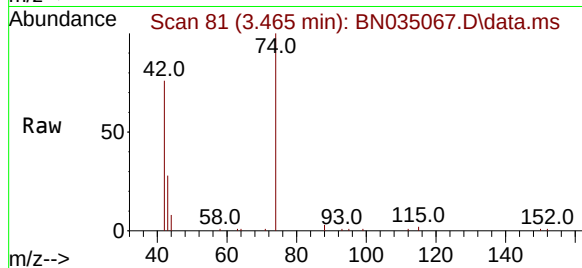
ClientSampleId :

SSTDICC3.2

Tgt Ion:	42	Ratio	100	Lower	Upper
42	100				
74	159.4	120.8	181.2		
44	4.7	2.9	4.3		

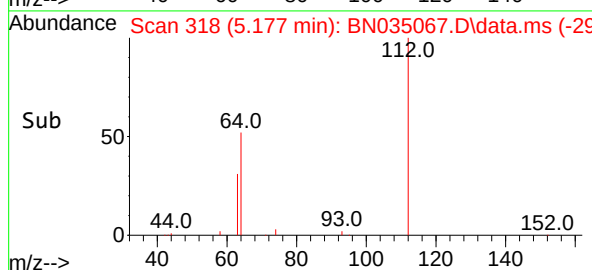
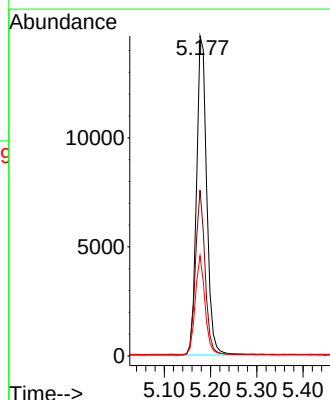
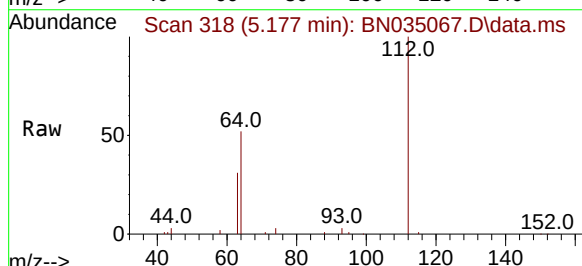
Manual Integrations
APPROVED

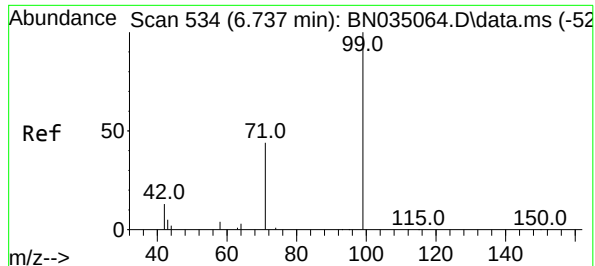
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:	112	Ratio	100	Lower	Upper
112	100				
64	48.8	39.7	59.5		
63	29.4	23.0	34.4		





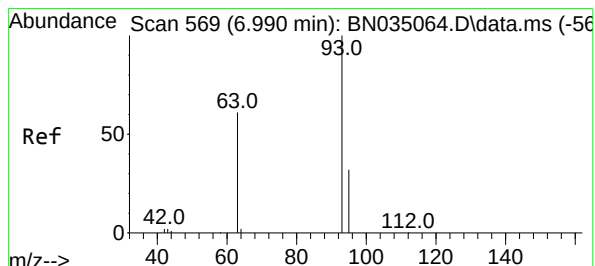
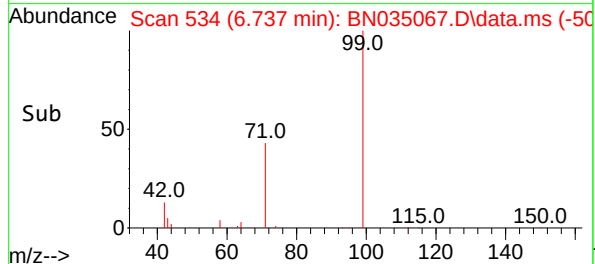
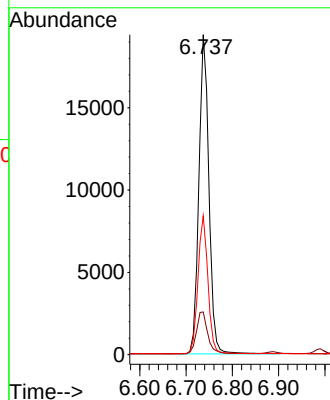
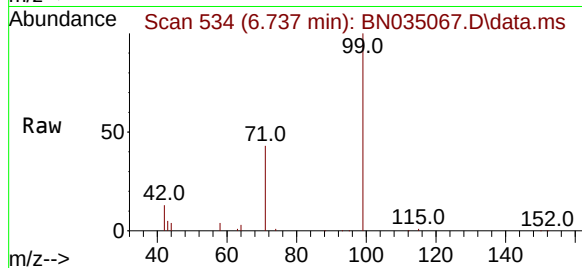
#5
Phenol-d6
Concen: 3.155 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 29328
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 43.0 34.6 51.8

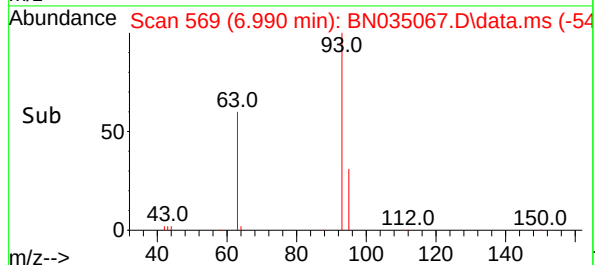
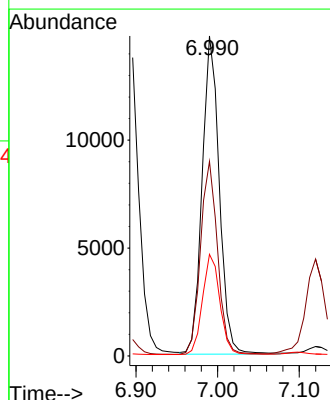
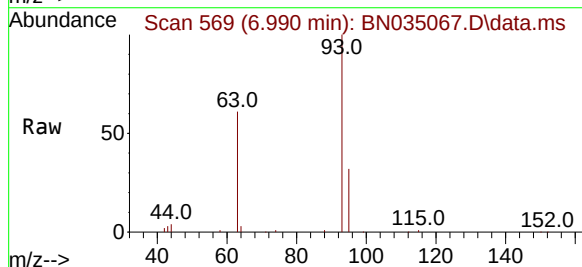
Manual Integrations
APPROVED

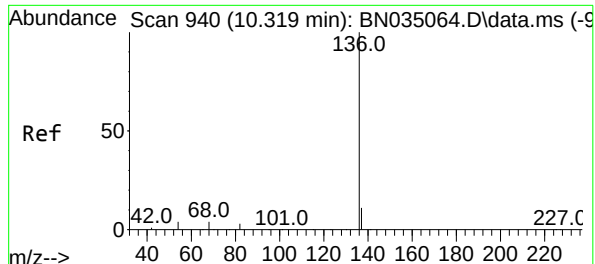
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6
bis(2-Chloroethyl)ether
Concen: 3.099 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 93 Resp: 21619
Ion Ratio Lower Upper
93 100
63 60.2 47.4 71.2
95 31.9 26.2 39.4





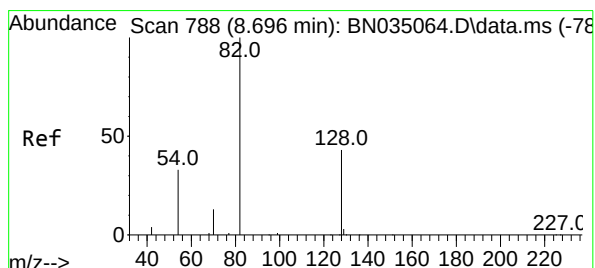
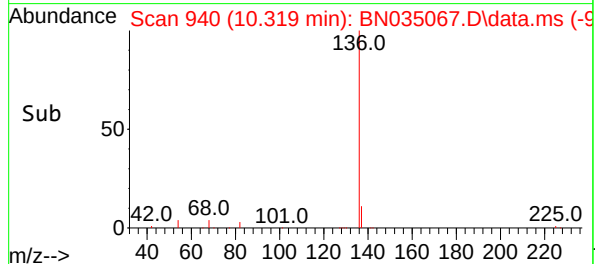
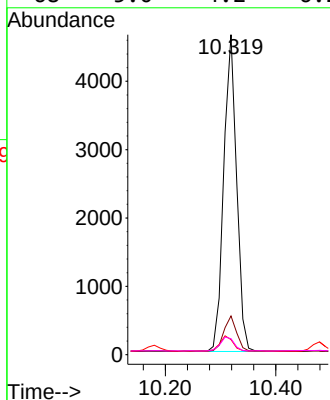
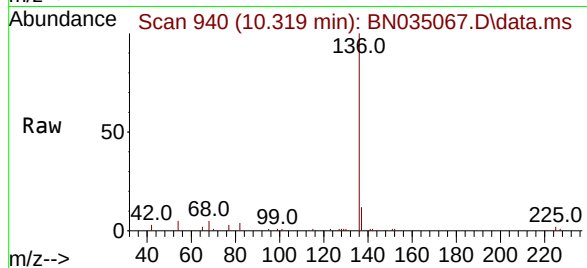
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:	136	Resp:	748
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.7	4.0	6.0
68	5.0	4.2	6.2

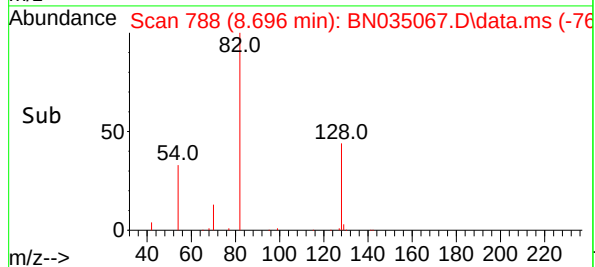
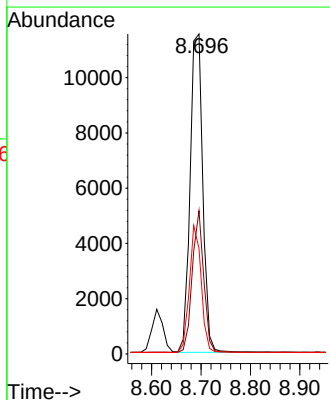
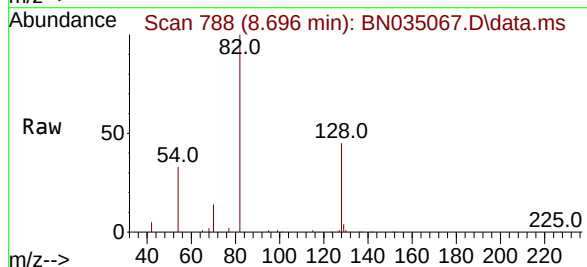
Manual Integrations
APPROVED

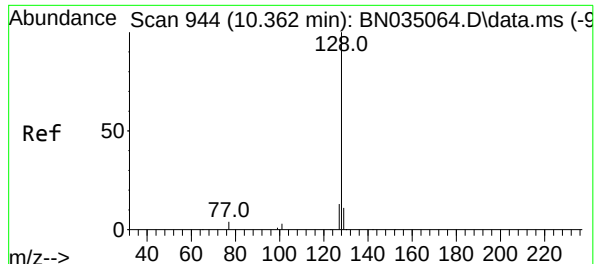
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 3.167 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:	82	Resp:	20578
Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.5	54.7
54	33.0	28.7	43.1





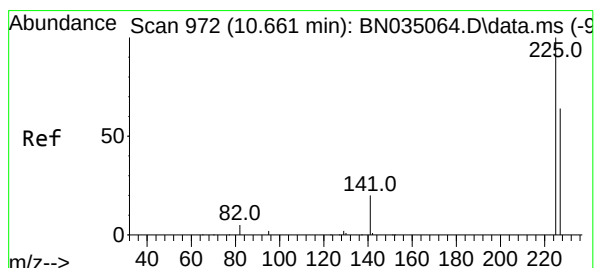
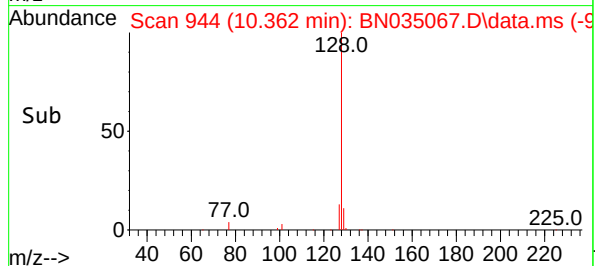
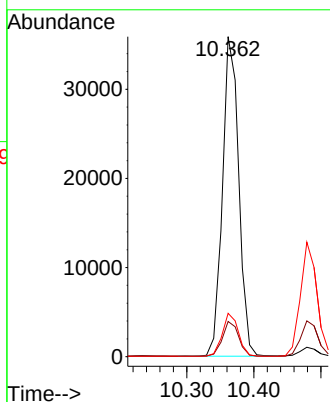
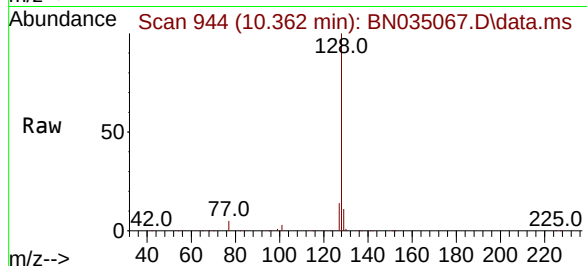
#9
Naphthalene
Concen: 3.093 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 60468
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.6 11.6 17.4

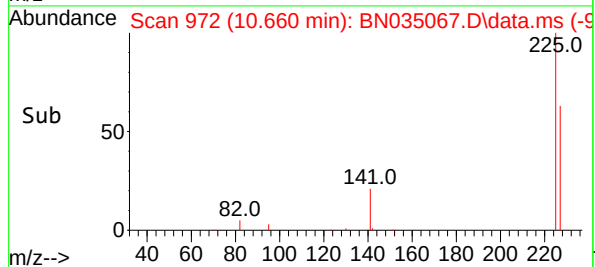
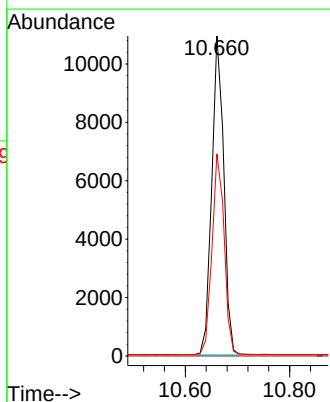
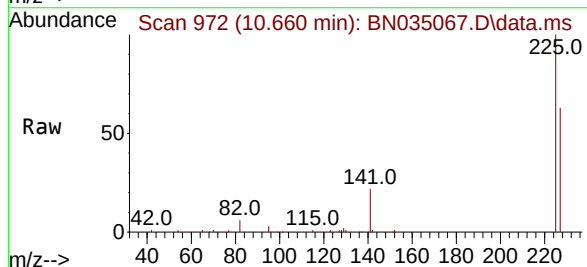
Manual Integrations
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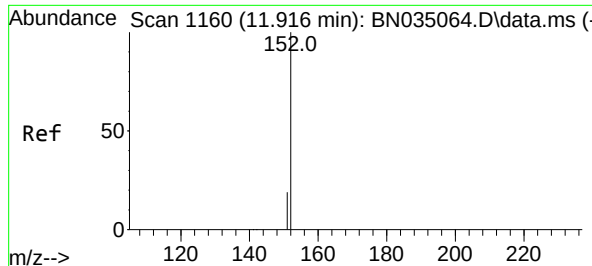
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#10
Hexachlorobutadiene
Concen: 3.019 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:225 Resp: 17300
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.5 77.3





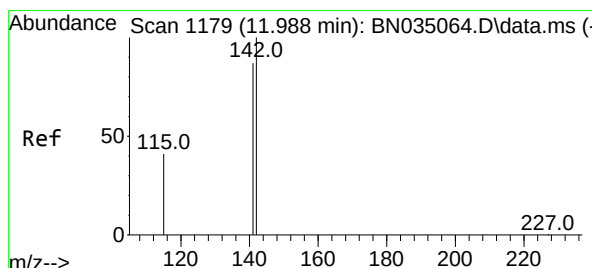
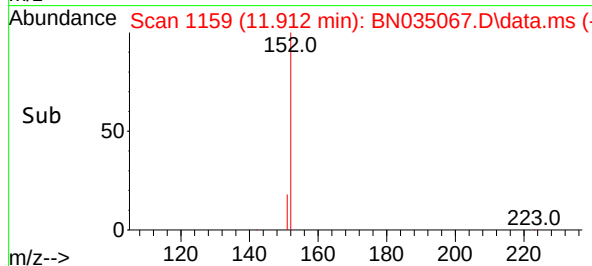
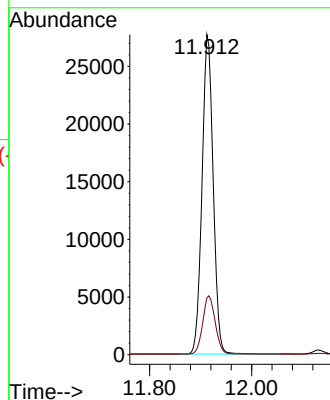
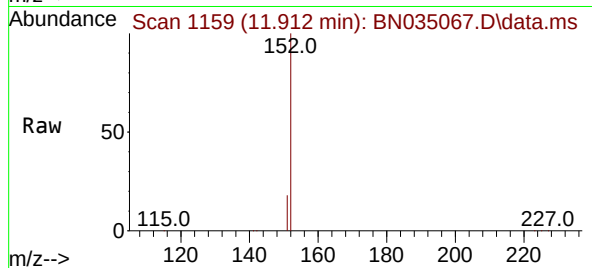
#11
2-Methylnaphthalene-d10
Concen: 3.157 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 42128
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4

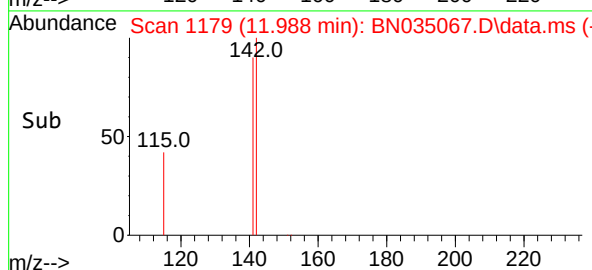
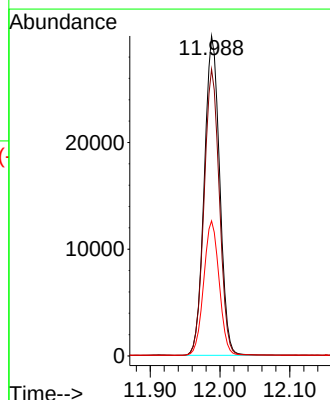
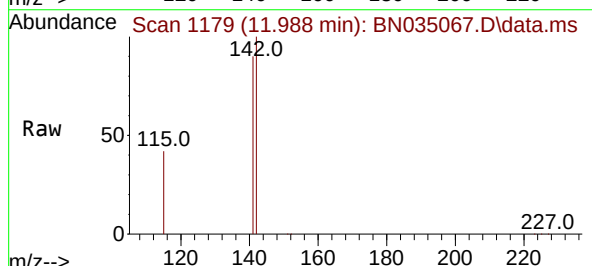
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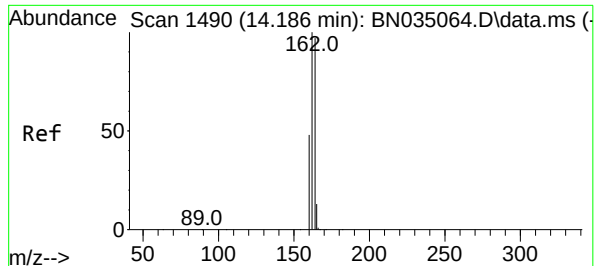
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#12
2-Methylnaphthalene
Concen: 3.176 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

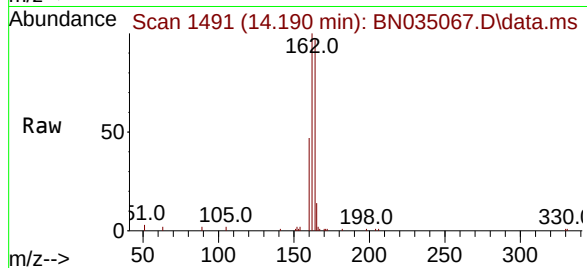
Tgt Ion:142 Resp: 45806
Ion Ratio Lower Upper
142 100
141 89.6 70.1 105.1
115 42.2 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

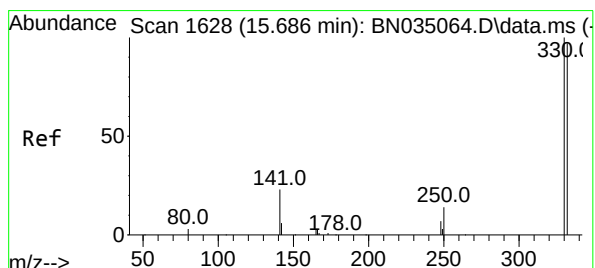
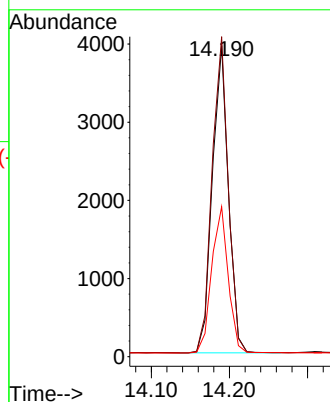
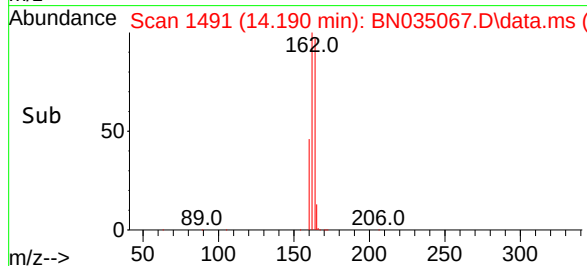
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



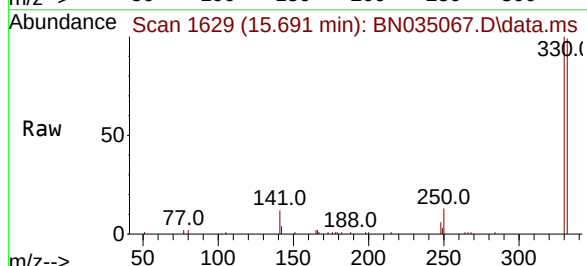
Tgt Ion:164 Resp: 559
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.2 40.2 60.4

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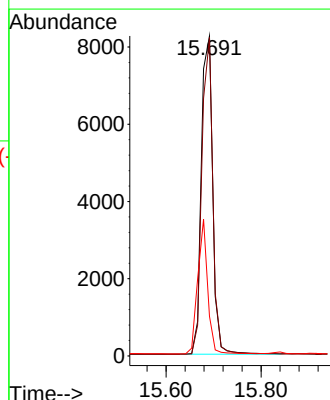
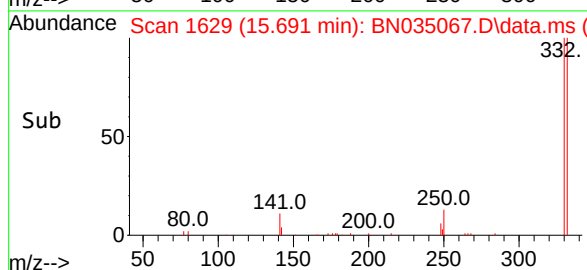
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

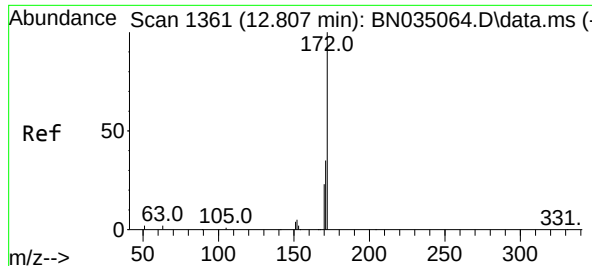


#14
2,4,6-Tribromophenol
Concen: 3.417 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39



Tgt Ion:330 Resp: 13778
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 36.6 29.6 44.4





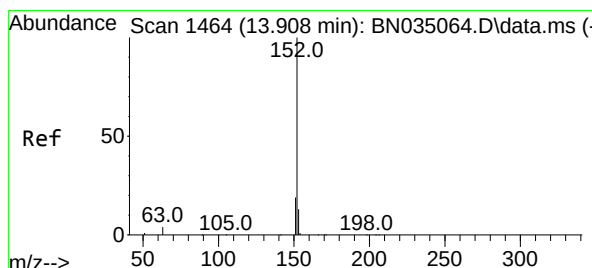
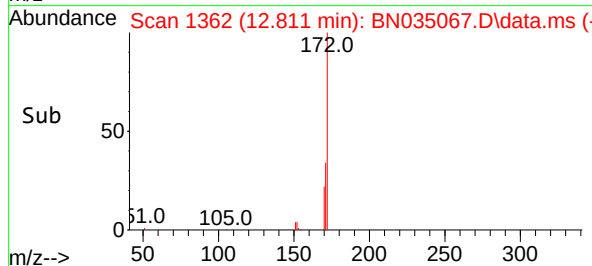
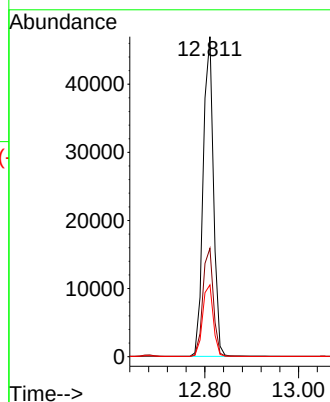
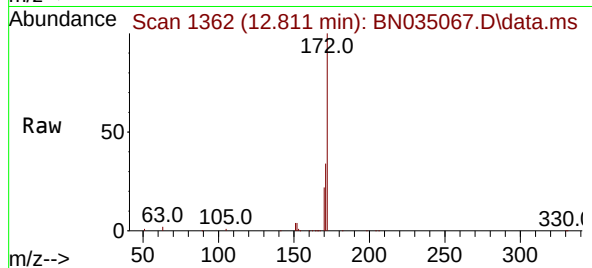
#15
2-Fluorobiphenyl
Concen: 3.150 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 7154
Ion Ratio Lower Upper
172 100
171 33.9 28.2 42.4
170 22.5 19.0 28.6

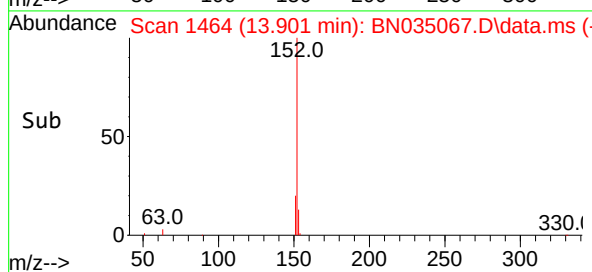
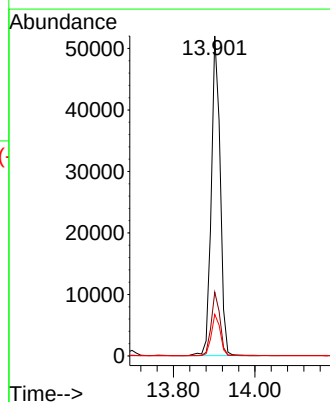
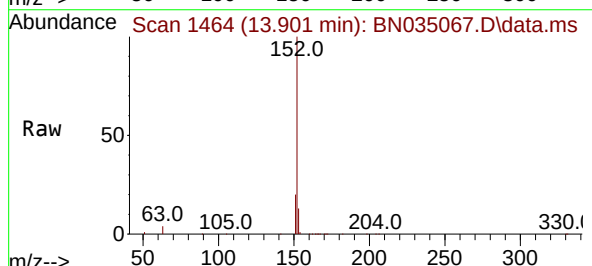
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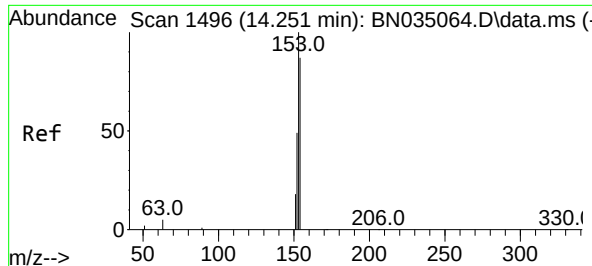
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#16
Acenaphthylene
Concen: 3.286 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:152 Resp: 78553
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.0 10.2 15.4





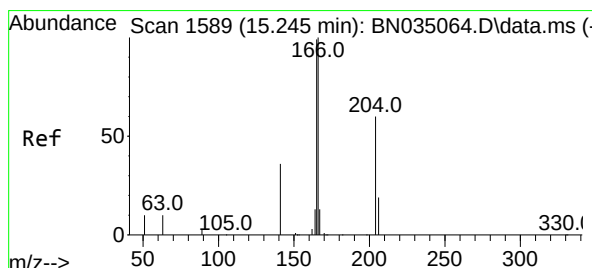
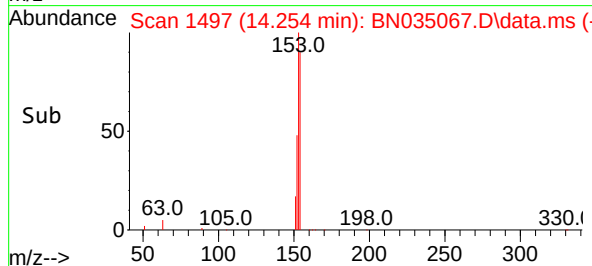
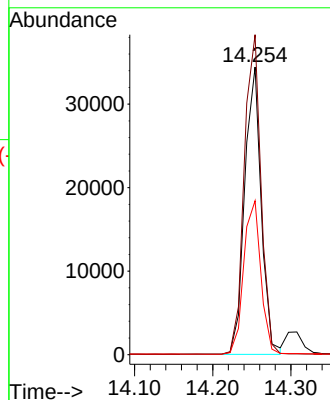
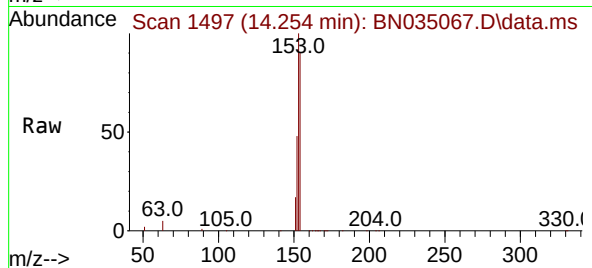
#17
Acenaphthene
Concen: 3.227 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 5054
Ion Ratio Lower Upper
154 100
153 112.9 91.6 137.4
152 55.6 45.8 68.6

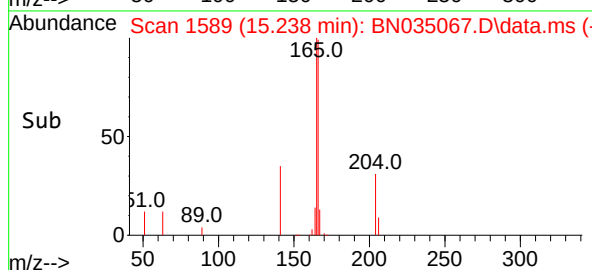
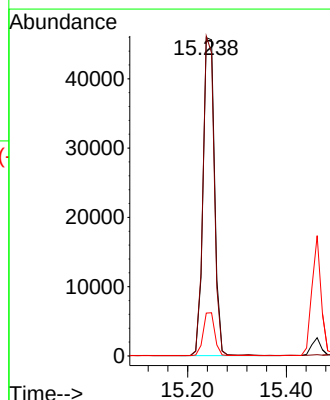
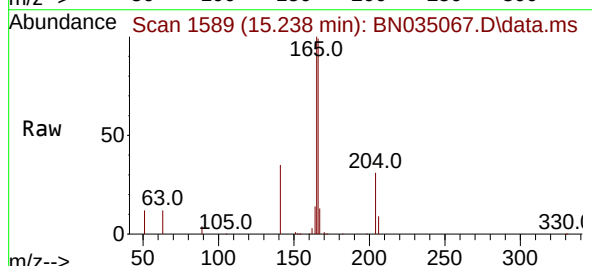
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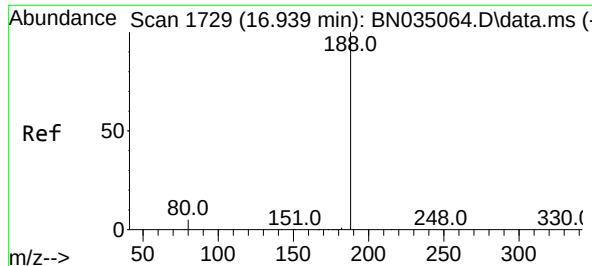
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 3.215 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:166 Resp: 74092
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

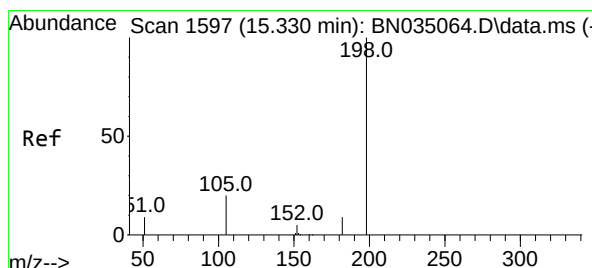
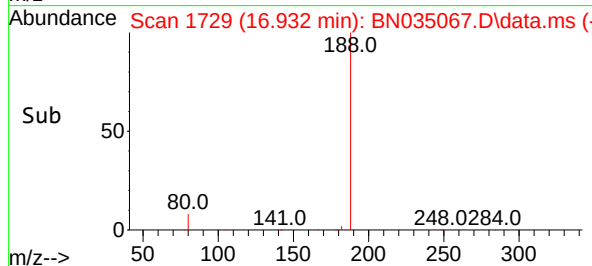
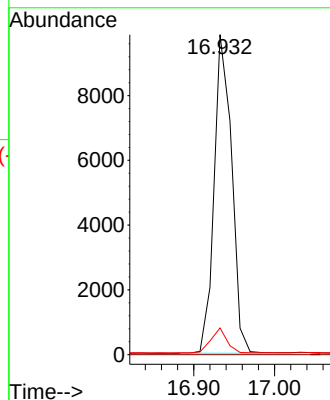
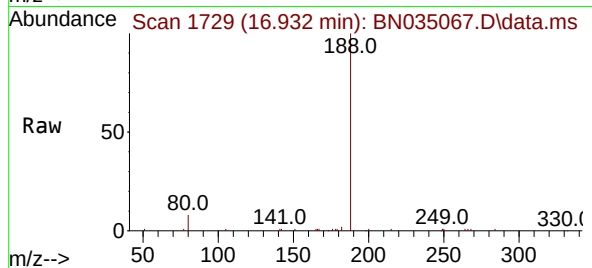
SSTDICC3.2

Tgt Ion:188	Resp:	14864
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.3	4.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 3.661 ng

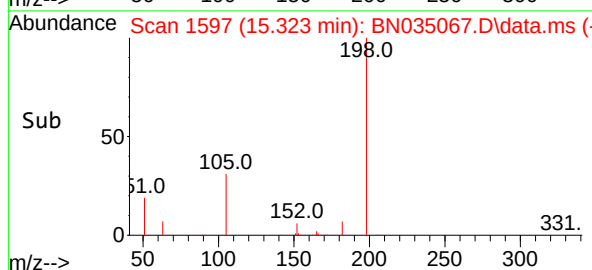
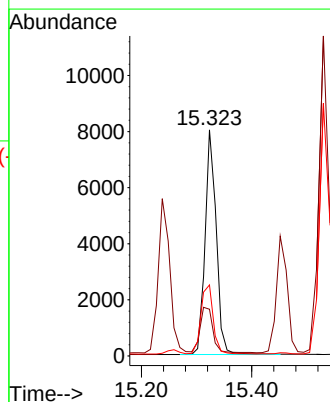
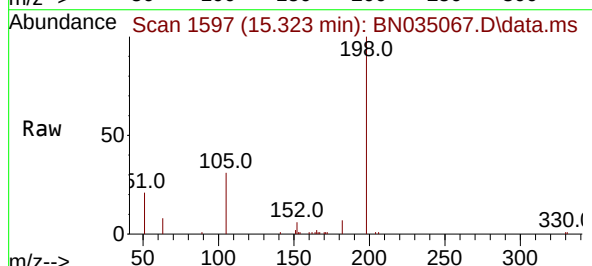
RT: 15.323 min Scan# 1597

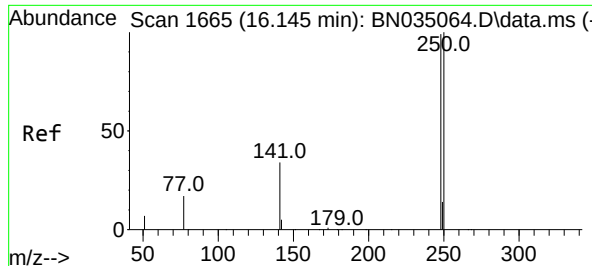
Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Tgt Ion:198	Resp:	11328
Ion Ratio	Lower	Upper
198	100	
51	20.6	29.9
105	31.4	23.7





#21
4-Bromophenyl-phenylether
Concen: 3.169 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

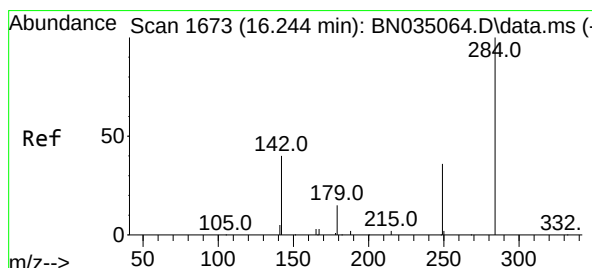
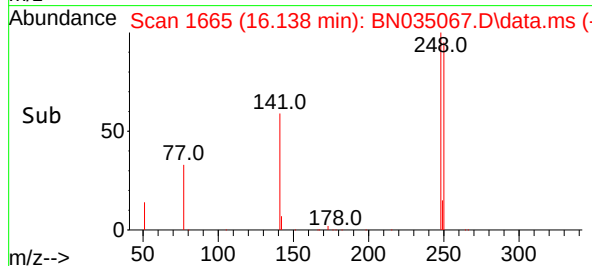
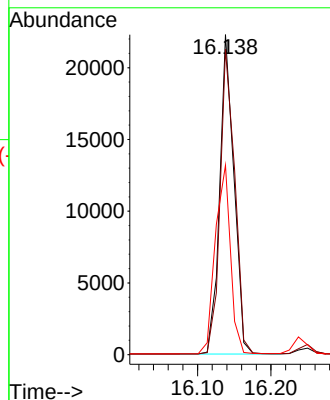
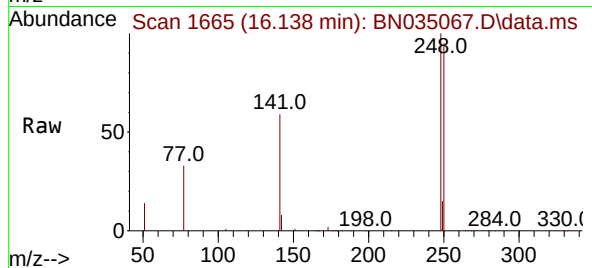
ClientSampleId :

SSTDICC3.2

Tgt Ion:248 Resp: 3001
Ion Ratio Lower Upper
248 100
250 95.4 81.2 121.8
141 59.2 29.1 43.7

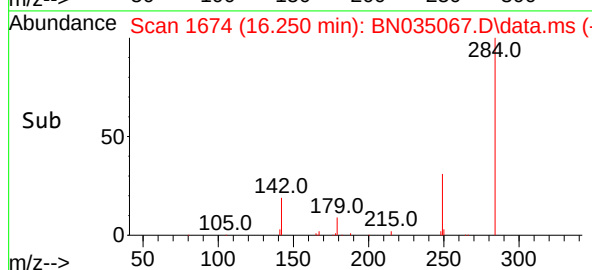
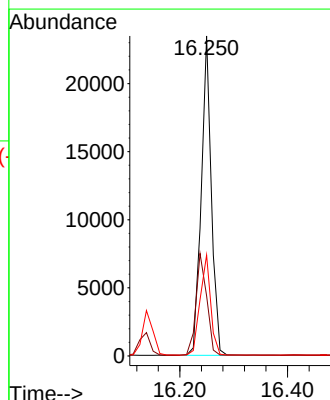
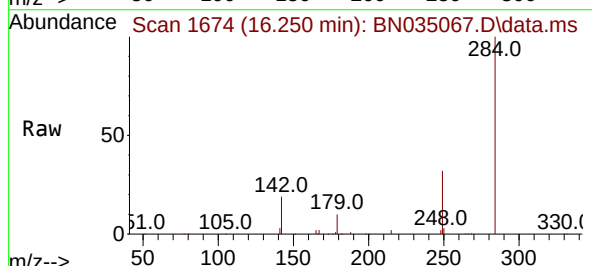
Manual Integrations
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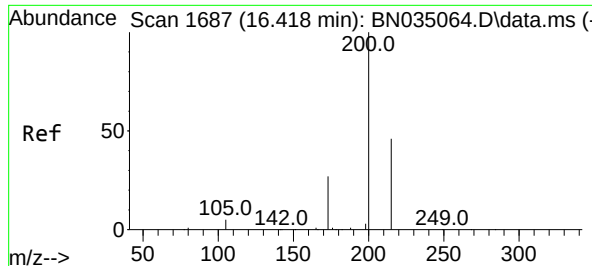
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#22
Hexachlorobenzene
Concen: 3.117 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:284 Resp: 30635
Ion Ratio Lower Upper
284 100
142 33.9 28.2 42.4
249 32.8 26.2 39.2





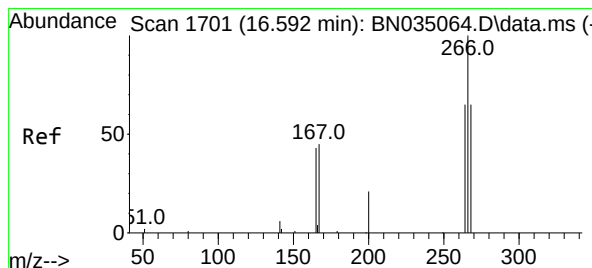
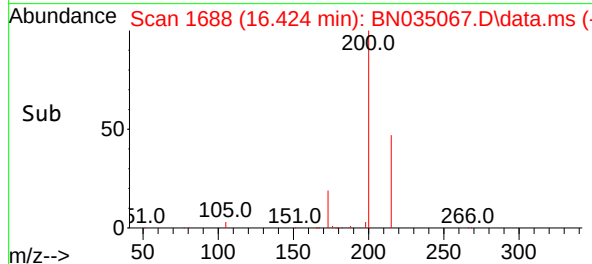
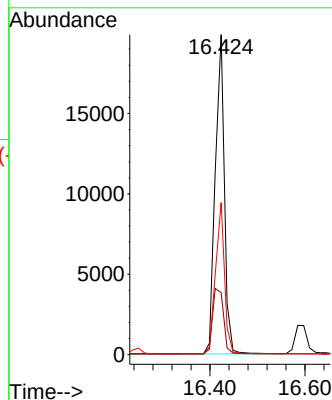
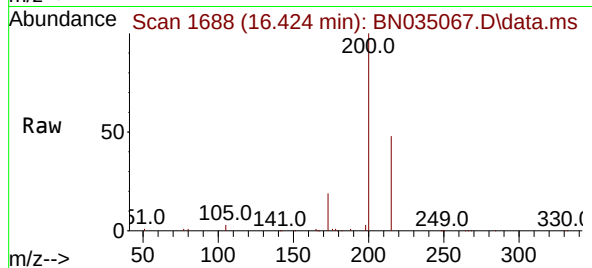
#23
 Atrazine
 Concen: 3.127 ng
 RT: 16.424 min Scan# 1687
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion:200 Resp: 2656
 Ion Ratio Lower Upper
 200 100
 173 19.4 22.6 33.8
 215 47.5 37.8 56.6

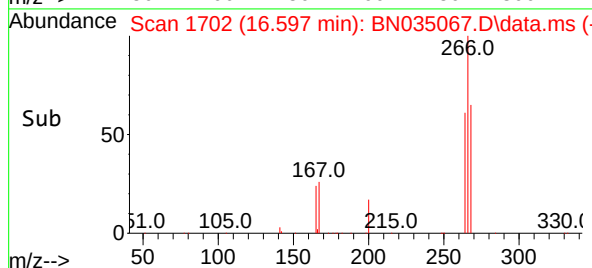
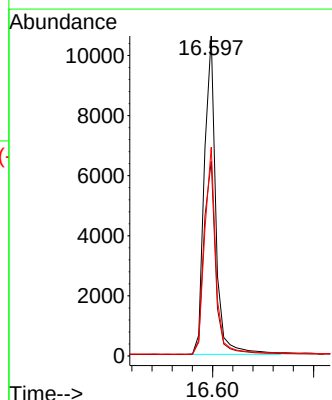
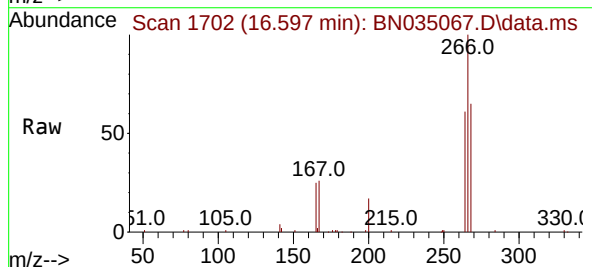
Manual Integrations
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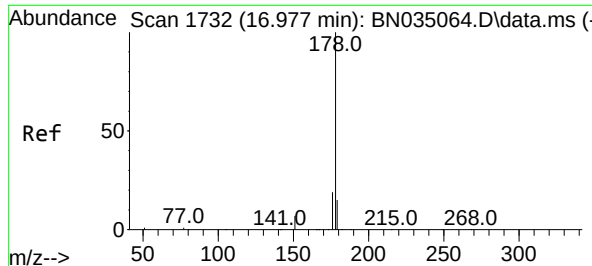
Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024



#24
 Pentachlorophenol
 Concen: 3.656 ng
 RT: 16.597 min Scan# 1702
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

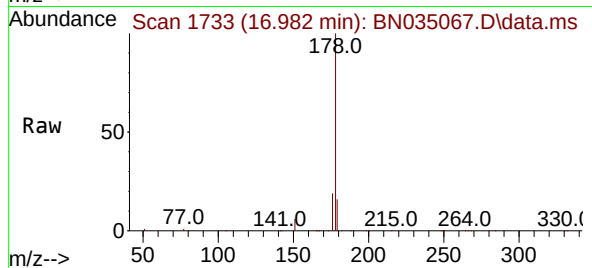
Tgt Ion:266 Resp: 16789
 Ion Ratio Lower Upper
 266 100
 264 62.8 49.4 74.0
 268 64.0 52.6 79.0





#25
Phenanthrene
Concen: 3.144 ng
RT: 16.982 min Scan# 1732
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

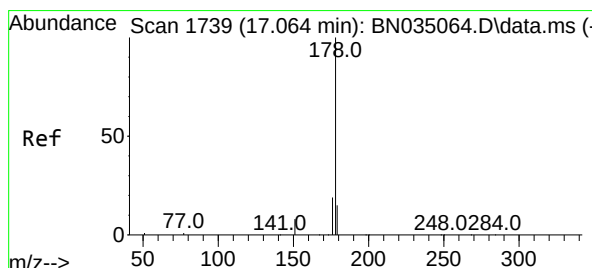
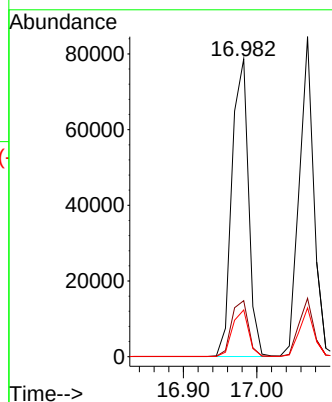
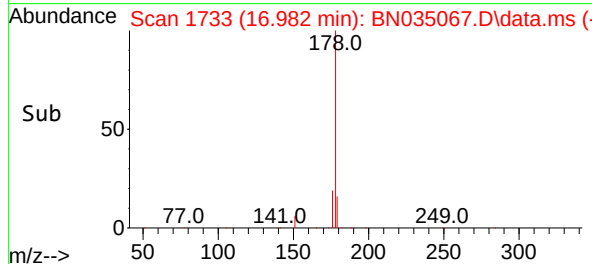
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:178 Resp: 123000
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.3 12.6 18.8

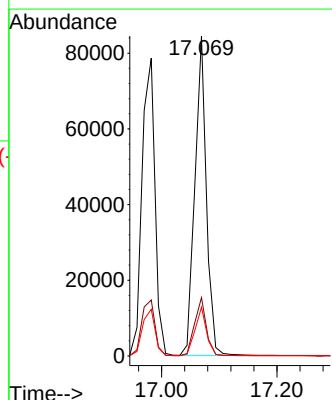
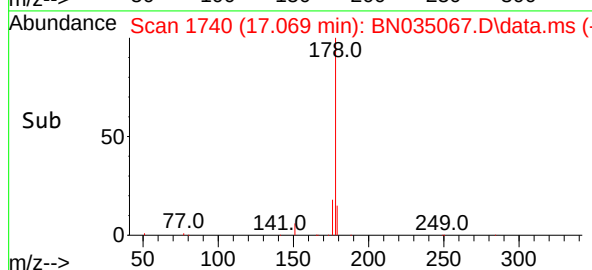
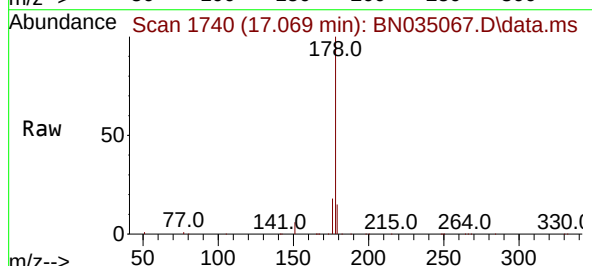
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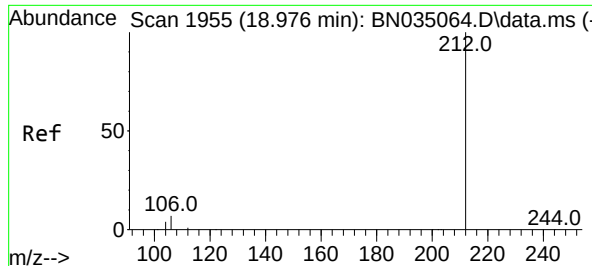
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 3.265 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:178 Resp: 117301
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 3.191 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:212 Resp: 14532

Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

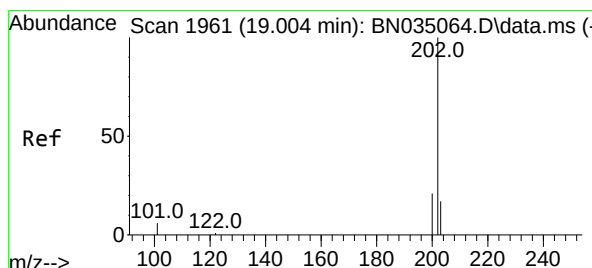
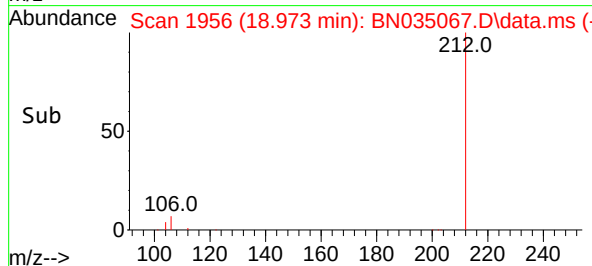
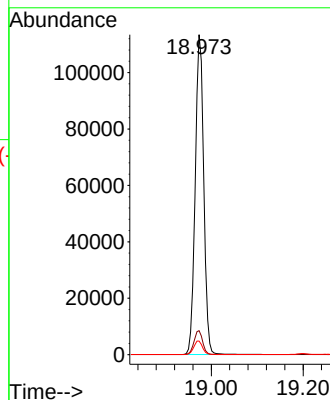
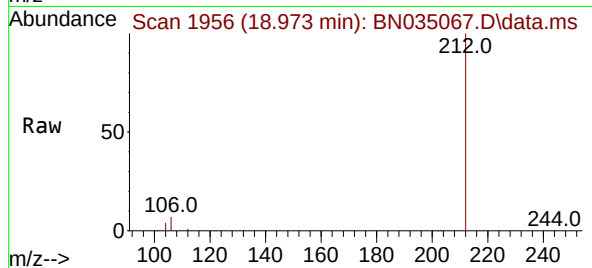
104 4.3 3.5 5.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#28

Fluoranthene

Concen: 3.212 ng

RT: 19.006 min Scan# 1963

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

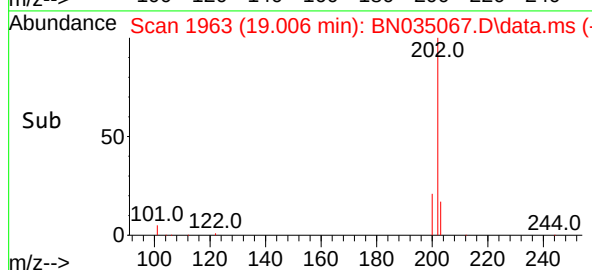
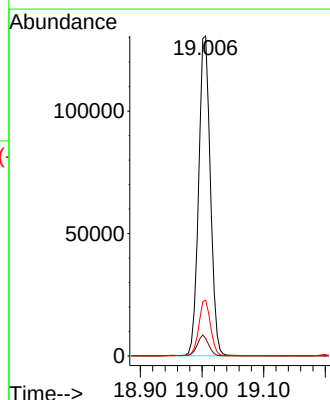
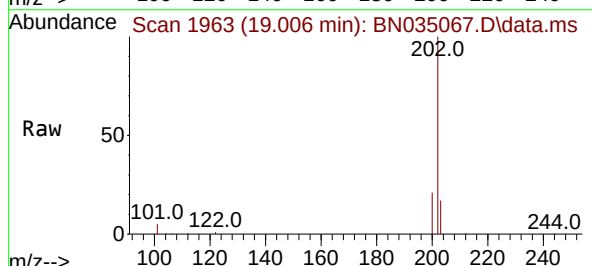
Tgt Ion:202 Resp: 172759

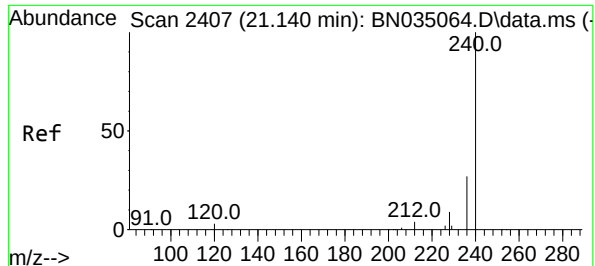
Ion Ratio Lower Upper

202 100

101 6.4 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2407

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

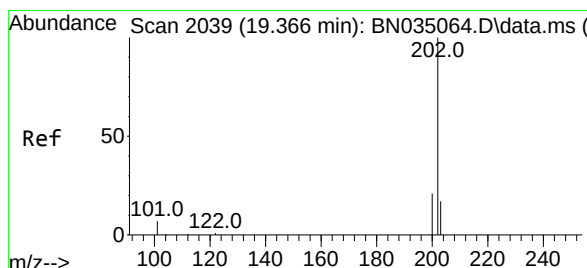
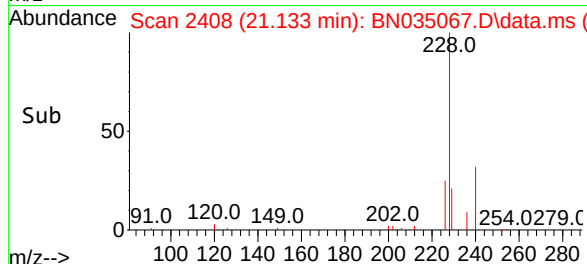
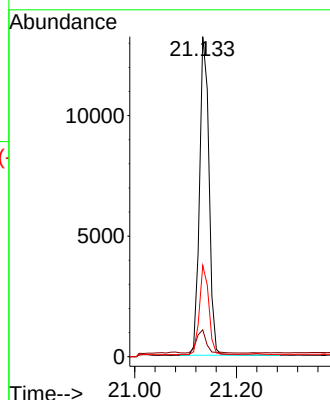
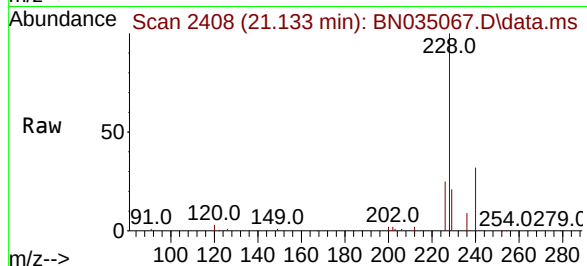
ClientSampleId :

SSTDICC3.2

Tgt Ion:240 Resp: 17090
Ion Ratio Lower Upper
240 100
120 8.4 3.8 5.6
236 28.5 22.2 33.2

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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 3.125 ng

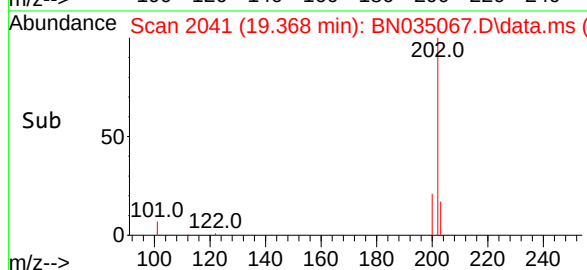
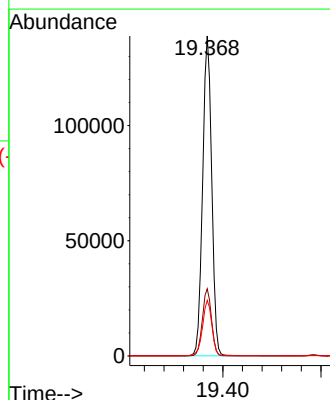
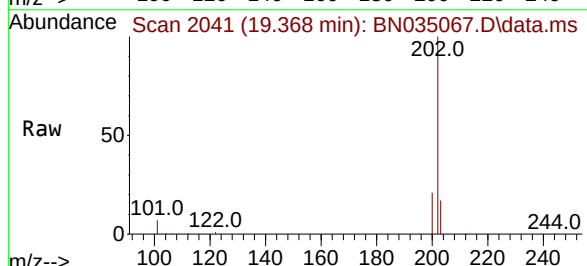
RT: 19.368 min Scan# 2041

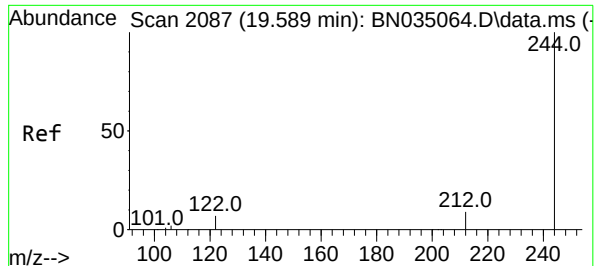
Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 177937
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.8 14.2 21.4





#31
Terphenyl-d14
Concen: 3.115 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

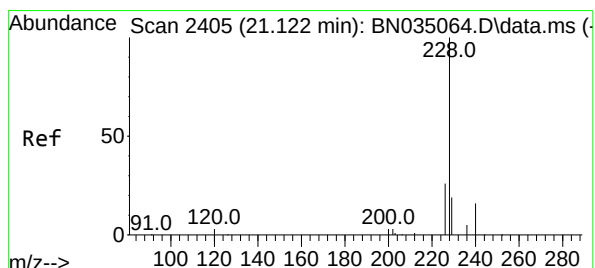
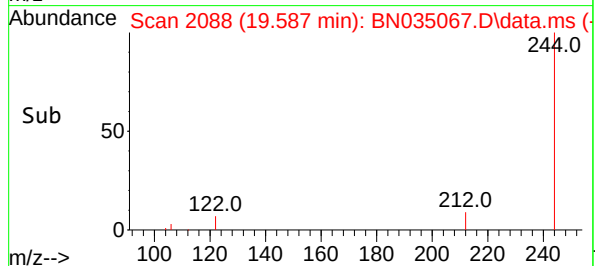
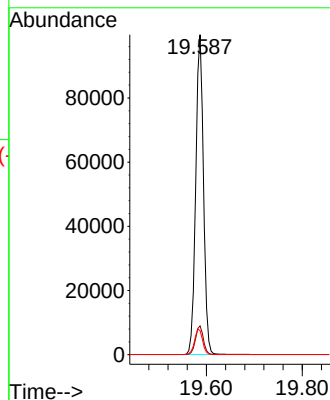
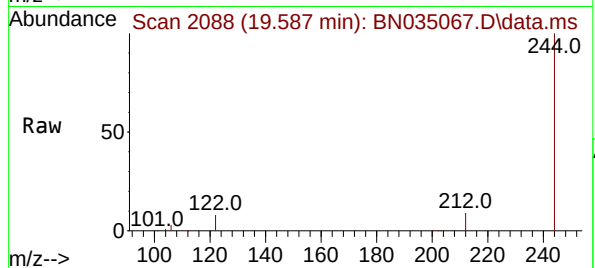
ClientSampleId :

SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	7.6	6.1	9.1

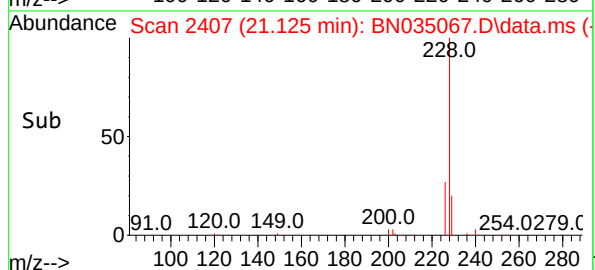
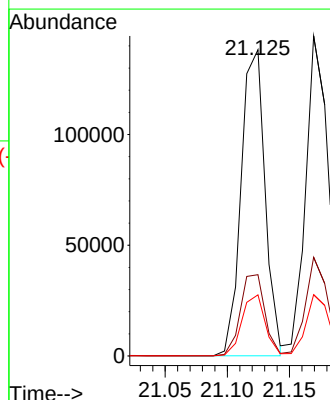
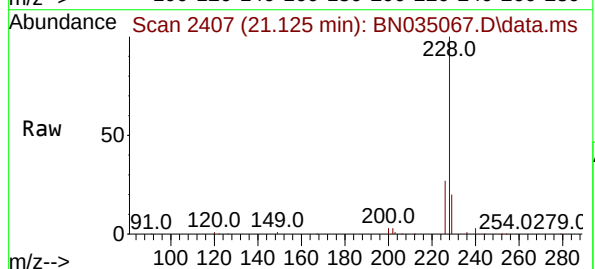
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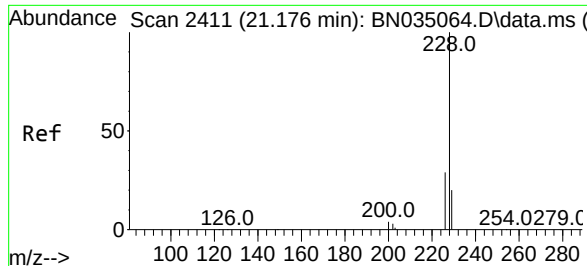
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 3.114 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.4	32.0
229	20.0	15.7	23.5





#33

Chrysene

Concen: 3.087 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:228 Resp: 18205

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

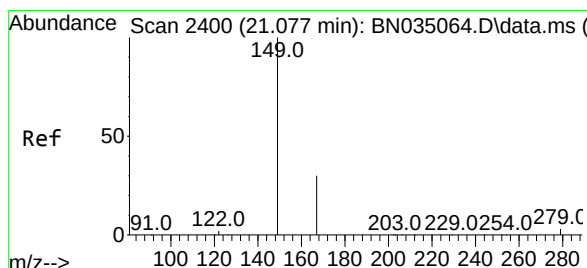
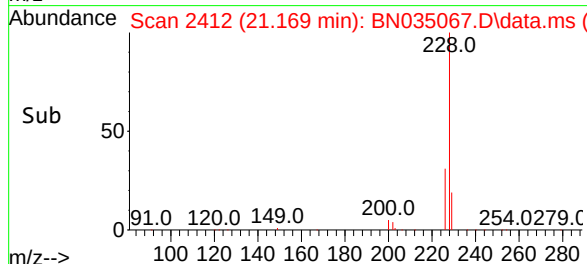
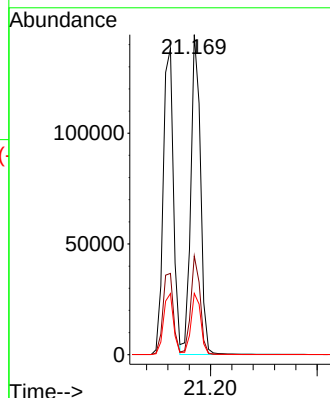
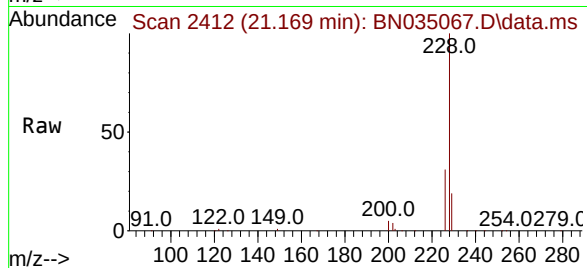
229 19.1 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.061 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

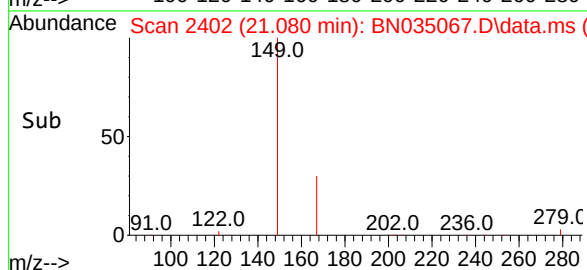
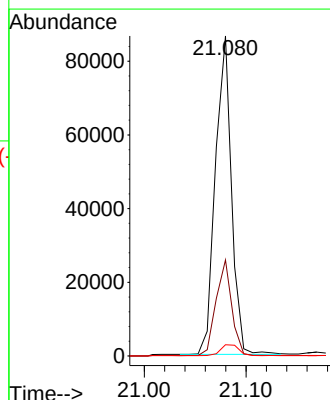
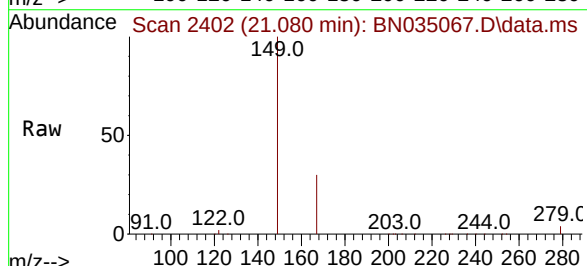
Tgt Ion:149 Resp: 94826

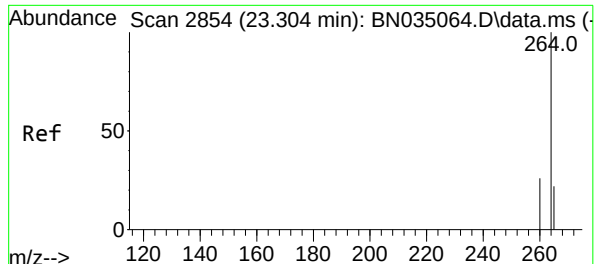
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

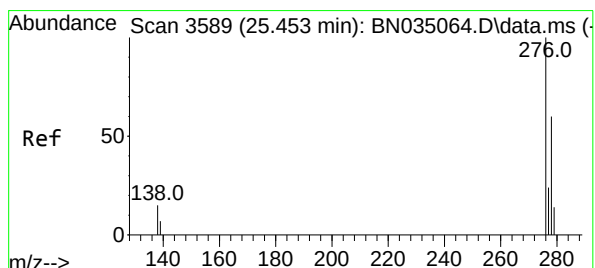
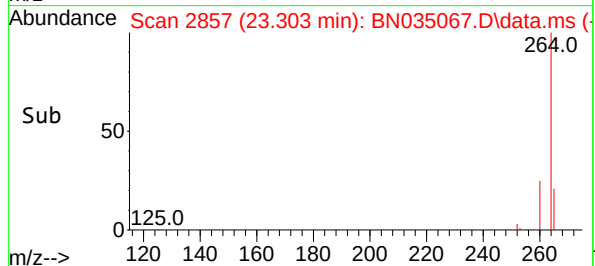
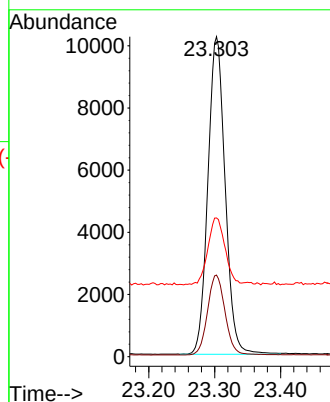
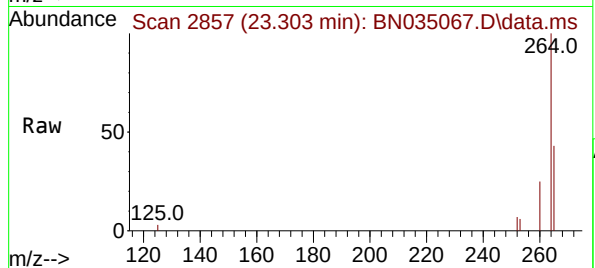
ClientSampleId :

SSTDICC3.2

Tgt Ion:	264	Resp:	1858
Ion Ratio	Lower	Upper	
264	100		
260	25.5	20.9	31.3
265	43.4	35.4	53.2

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.108 ng

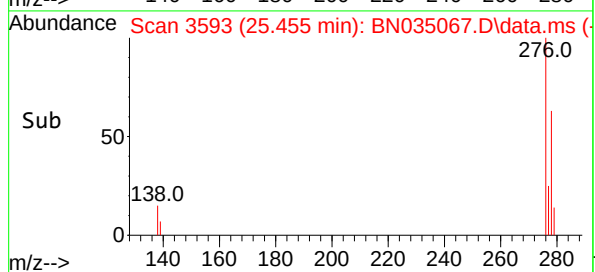
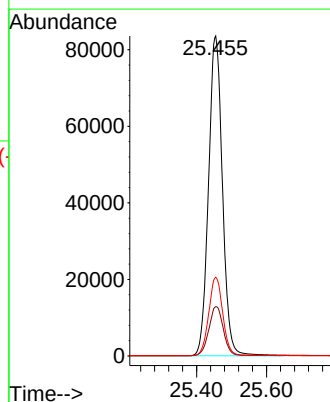
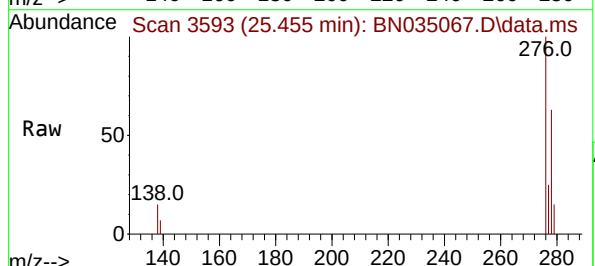
RT: 25.455 min Scan# 3593

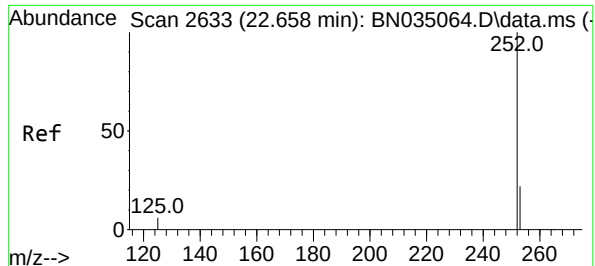
Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Tgt Ion:	276	Resp:	230419
Ion Ratio	Lower	Upper	
276	100		
138	16.0	13.0	19.4
277	24.8	19.8	29.6





#37

Benzo(b)fluoranthene

Concen: 3.155 ng m

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252 Resp: 197259

Ion Ratio Lower Upper

252 100

253 22.0 19.3 28.9

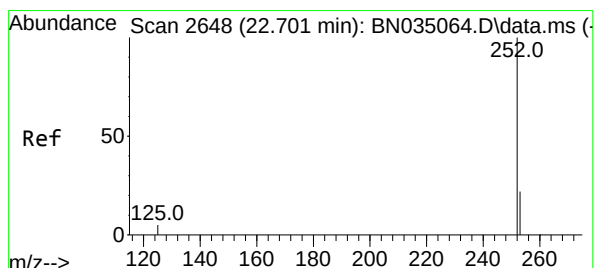
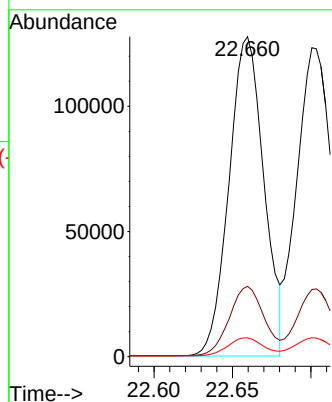
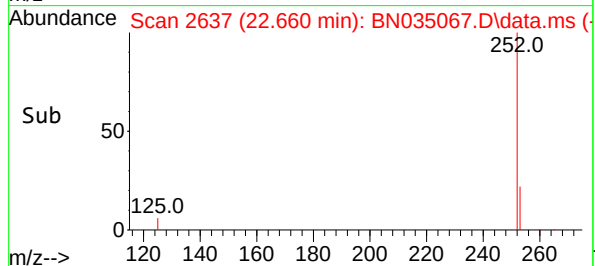
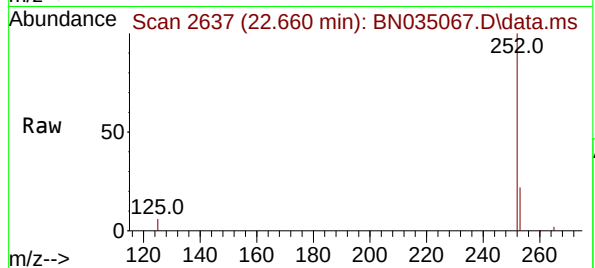
125 5.9 6.2 9.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 3.144 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

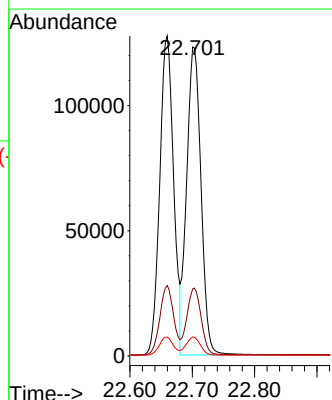
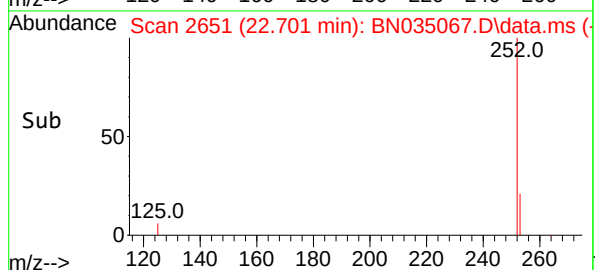
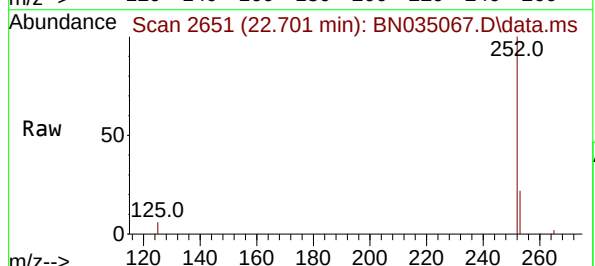
Tgt Ion:252 Resp: 196686

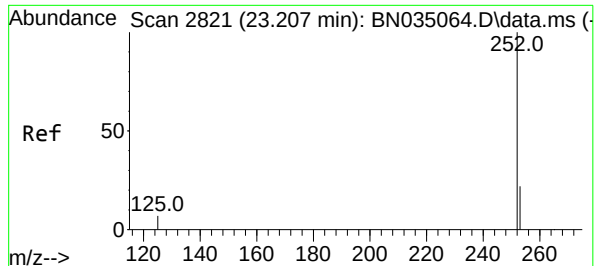
Ion Ratio Lower Upper

252 100

253 21.7 19.5 29.3

125 6.2 6.5 9.7





#39

Benzo(a)pyrene

Concen: 3.155 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

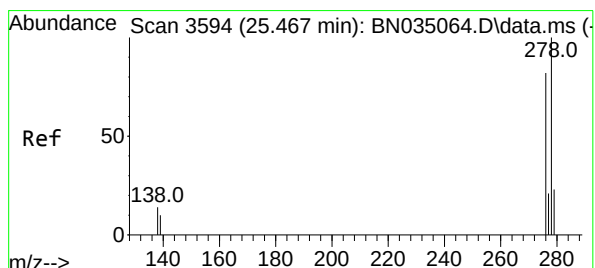
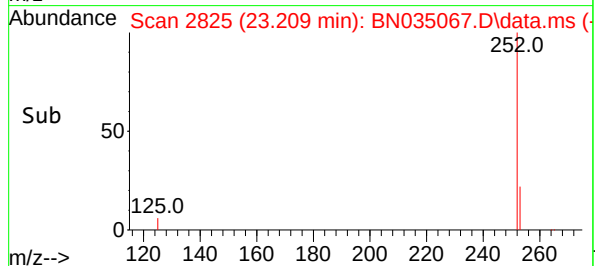
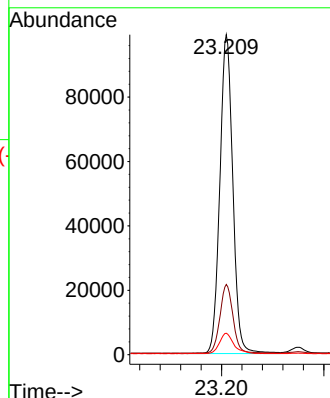
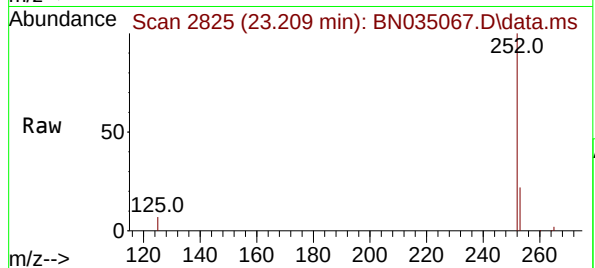
Tgt Ion:	252	Resp:	17354
Ion Ratio	Lower	Upper	
252	100		
253	22.0	20.1	30.1
125	6.7	7.5	11.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 3.127 ng

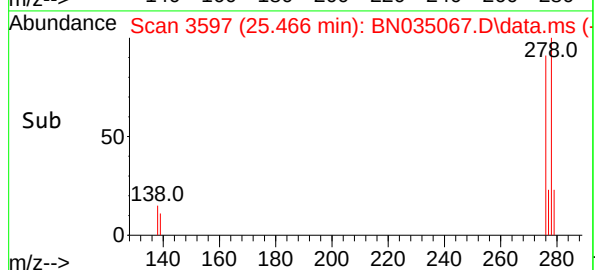
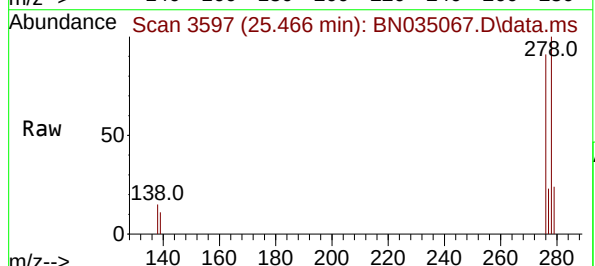
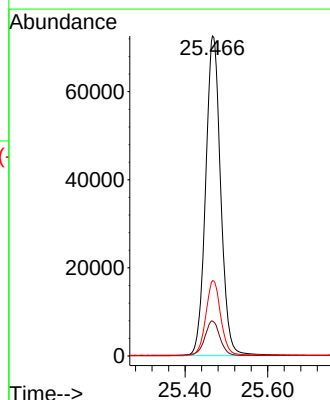
RT: 25.466 min Scan# 3597

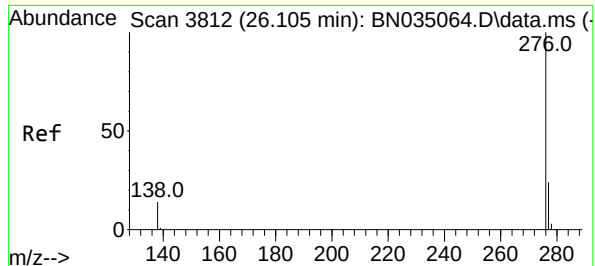
Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

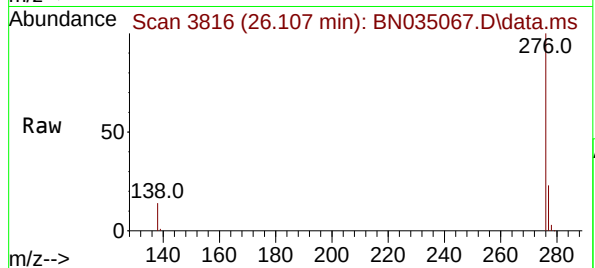
Tgt Ion:	278	Resp:	183641
Ion Ratio	Lower	Upper	
278	100		
139	10.9	9.3	13.9
279	23.6	19.7	29.5





#41
Benzo(g,h,i)perylene
Concen: 3.079 ng
RT: 26.107 min Scan# 3812
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

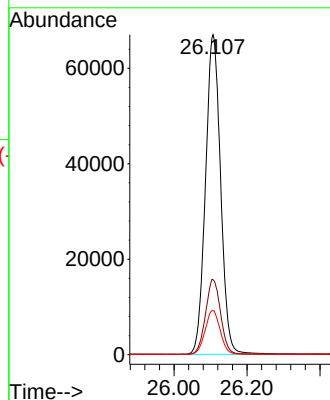
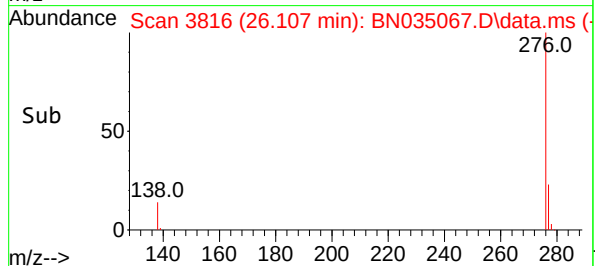
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 276 Resp: 19234
Ion Ratio Lower Upper
276 100
277 23.4 19.9 29.9
138 13.8 11.6 17.4

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Reviewed By : Yogesh Patel 11/14/2024
Supervised By : mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035068.D
 Acq On : 13 Nov 2024 16:15
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Nov 13 16:45:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

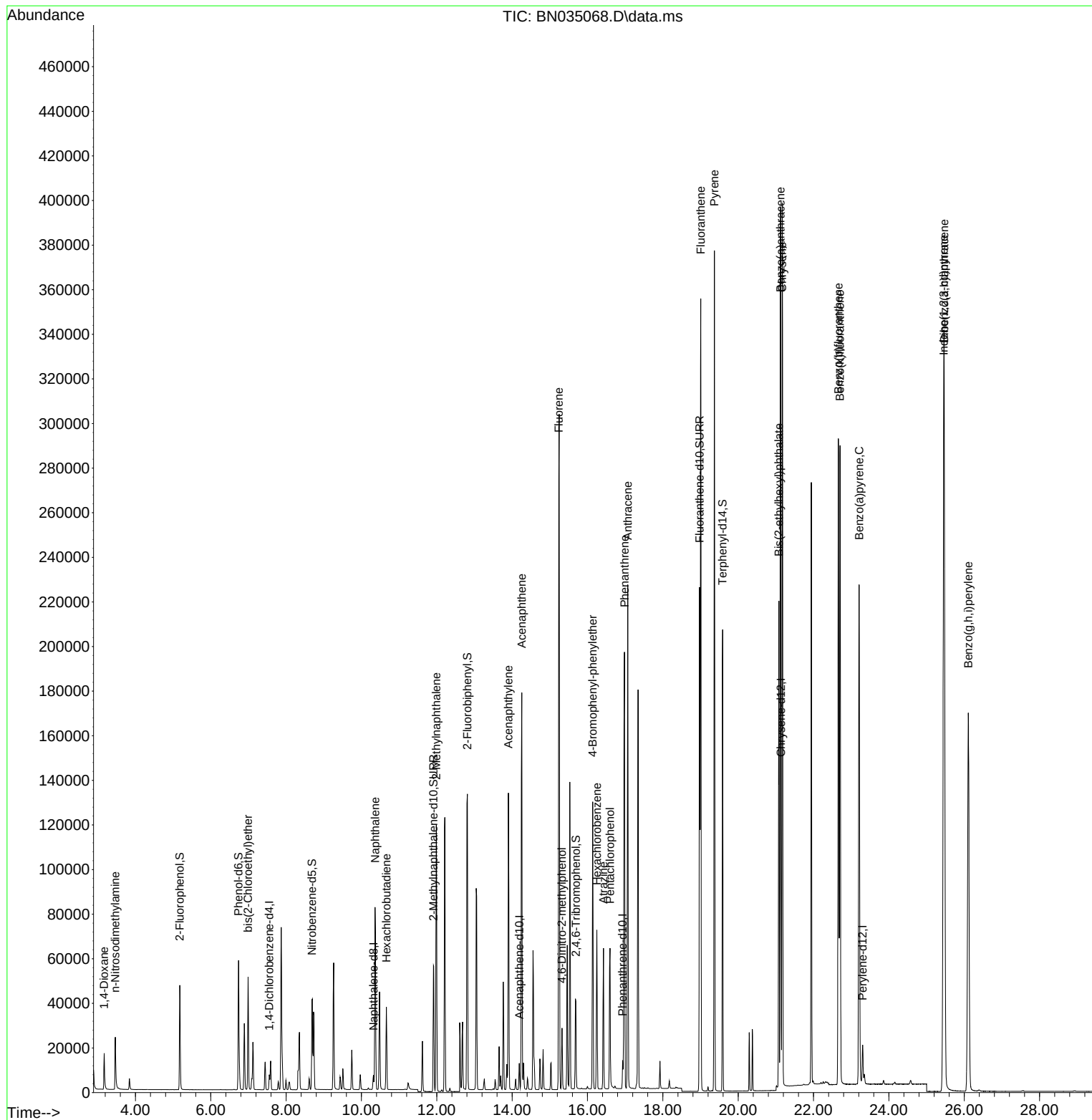
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3163	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	8134	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	6225	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	16809	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	19216	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	20465	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	37993	4.732	ng	0.00
5) Phenol-d6	6.737	99	50689	5.035	ng	0.00
8) Nitrobenzene-d5	8.685	82	35941	5.091	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	74330	5.128	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	25763	5.740	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	125581	4.967	ng	0.00
27) Fluoranthene-d10	18.973	212	260540	5.059	ng	0.00
31) Terphenyl-d14	19.587	244	199585	4.950	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	13024	4.533	ng	99
3) n-Nitrosodimethylamine	3.465	42	12737	4.774	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	36728	4.860	ng	99
9) Naphthalene	10.361	128	104370	4.914	ng	97
10) Hexachlorobutadiene	10.660	225	29615	4.757	ng	# 99
12) 2-Methylnaphthalene	11.988	142	80182	5.118	ng	98
16) Acenaphthylene	13.901	152	139668	5.250	ng	100
17) Acenaphthene	14.254	154	89181	5.115	ng	98
18) Fluorene	15.238	166	129071	5.033	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	22059	6.304	ng	# 82
21) 4-Bromophenyl-phenylether	16.138	248	52850	4.935	ng	# 85
22) Hexachlorobenzene	16.250	284	54126	4.870	ng	99
23) Atrazine	16.423	200	47349	4.928	ng	# 93
24) Pentachlorophenol	16.597	266	32339	6.228	ng	98
25) Phenanthrene	16.982	178	217781	4.923	ng	99
26) Anthracene	17.069	178	210303	5.176	ng	100
28) Fluoranthene	19.006	202	305283	5.019	ng	100
30) Pyrene	19.368	202	316225	4.942	ng	100
32) Benzo(a)anthracene	21.124	228	335437	5.013	ng	100
33) Chrysene	21.169	228	317200	4.786	ng	97
34) Bis(2-ethylhexyl)phtha...	21.080	149	178320	5.121	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	405401	4.966	ng	100
37) Benzo(b)fluoranthene	22.660	252	347639	5.049	ng	# 95
38) Benzo(k)fluoranthene	22.703	252	347310	5.041	ng	# 95
39) Benzo(a)pyrene	23.209	252	308664	5.094	ng	# 93
40) Dibenzo(a,h)anthracene	25.469	278	323522	5.002	ng	98
41) Benzo(g,h,i)perylene	26.107	276	339655	4.937	ng	98

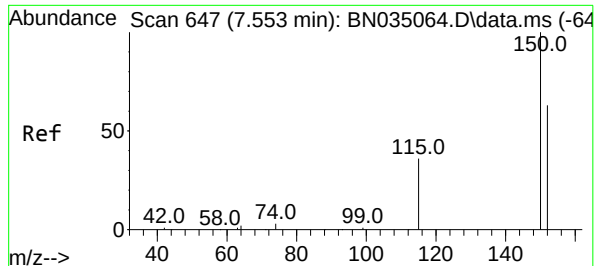
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035068.D
Acq On : 13 Nov 2024 16:15
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 13 16:45:39 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

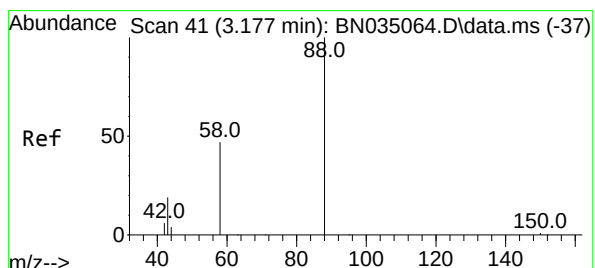
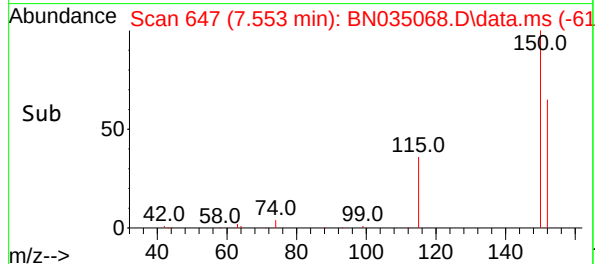
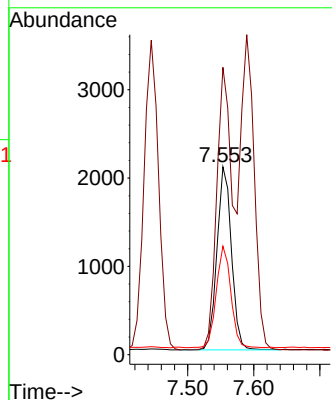
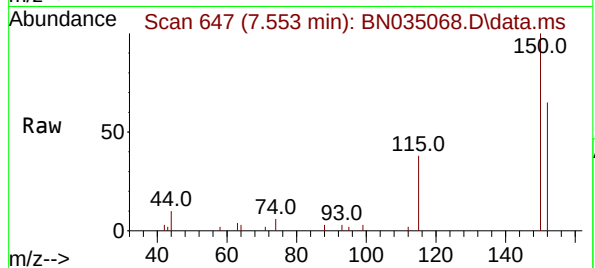




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

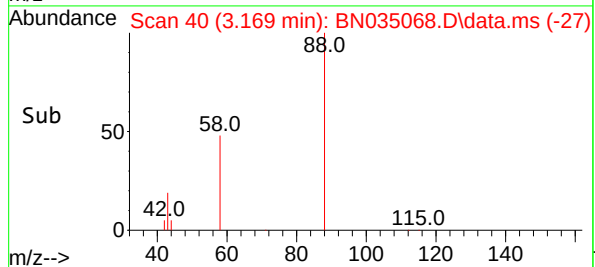
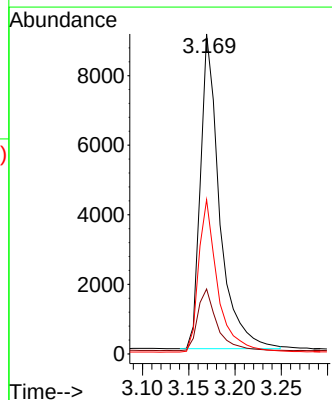
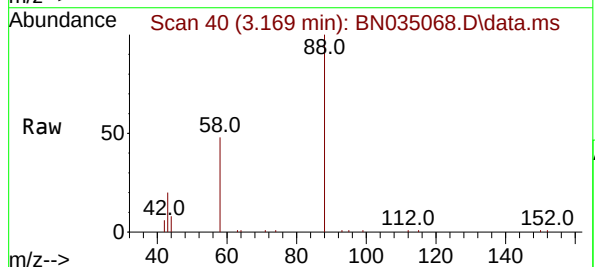
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

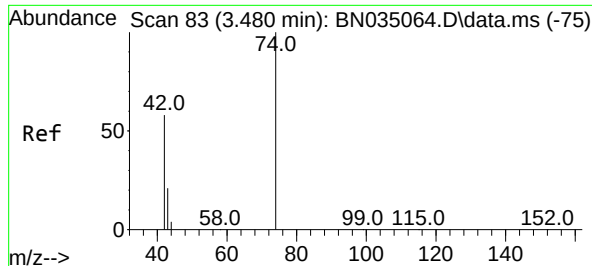
Tgt Ion:152 Resp: 3163
Ion Ratio Lower Upper
152 100
150 152.9 124.5 186.7
115 57.7 47.8 71.6



#2
1,4-Dioxane
Concen: 4.533 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 88 Resp: 13024
Ion Ratio Lower Upper
88 100
43 19.6 16.9 25.3
58 48.2 39.0 58.4

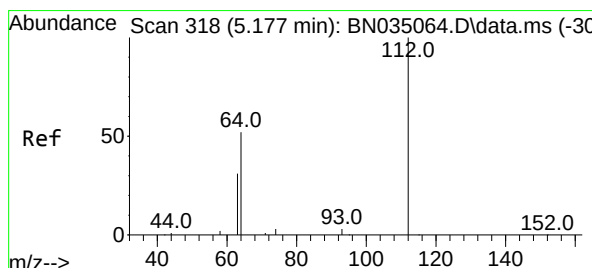
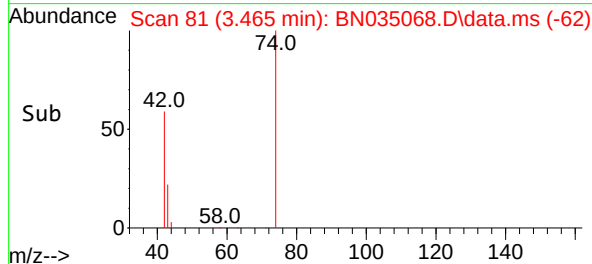
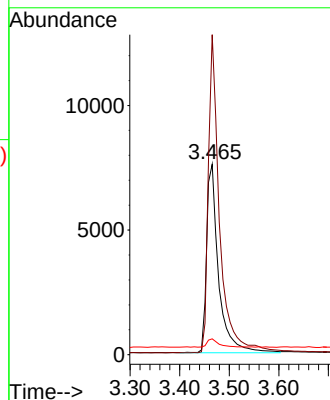
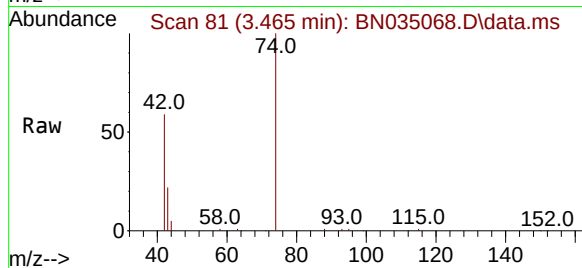




#3
n-Nitrosodimethylamine
Concen: 4.774 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

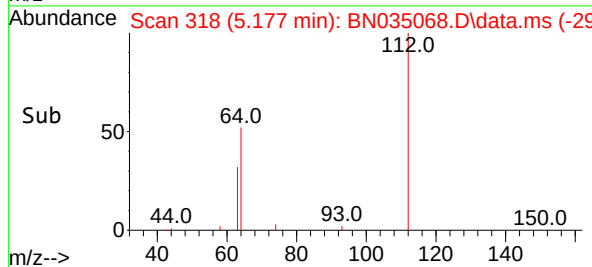
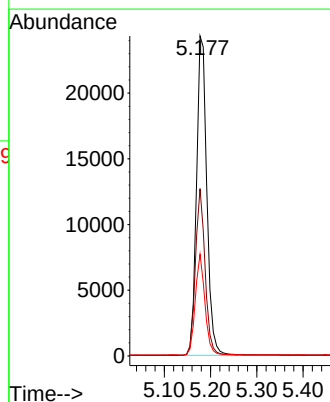
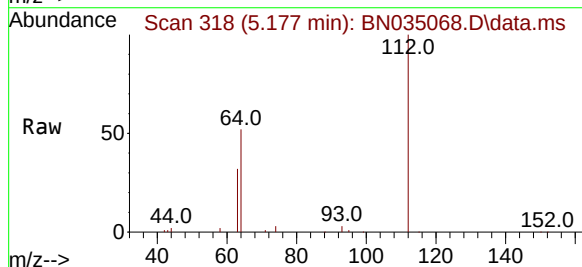
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SSTDICC5.0

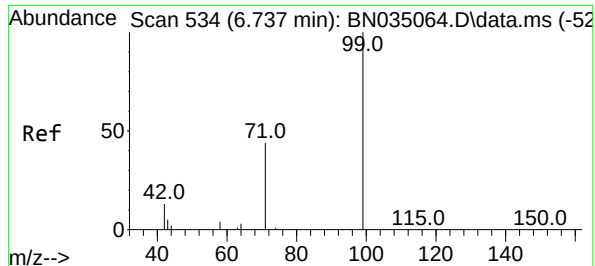
Tgt Ion: 42 Resp: 12737
Ion Ratio Lower Upper
42 100
74 159.1 120.8 181.2
44 4.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 4.732 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 112 Resp: 37993
Ion Ratio Lower Upper
112 100
64 49.0 39.7 59.5
63 29.4 23.0 34.4

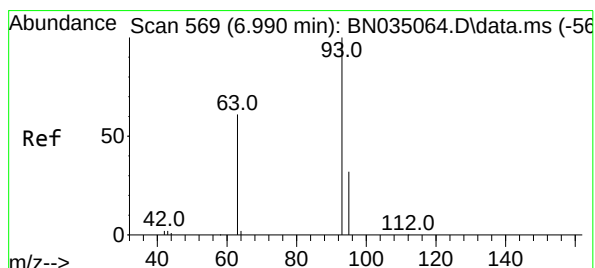
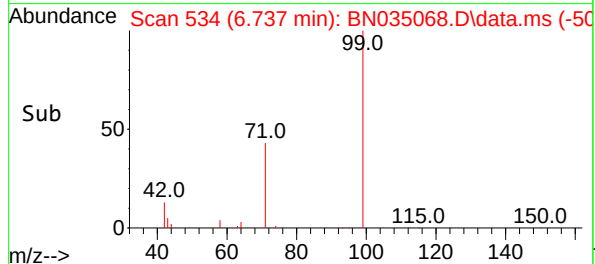
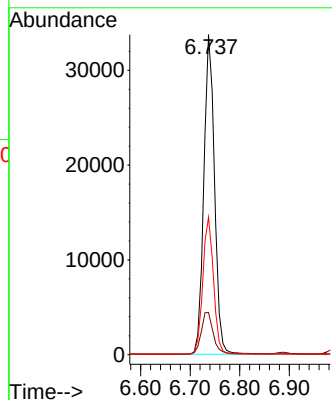
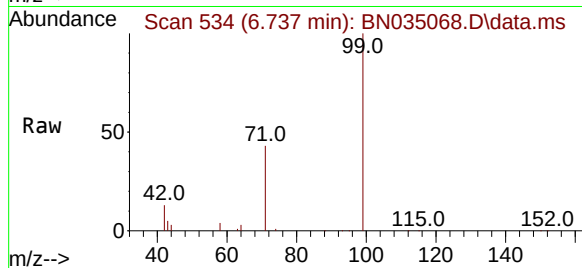




#5
Phenol-d6
Concen: 5.035 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

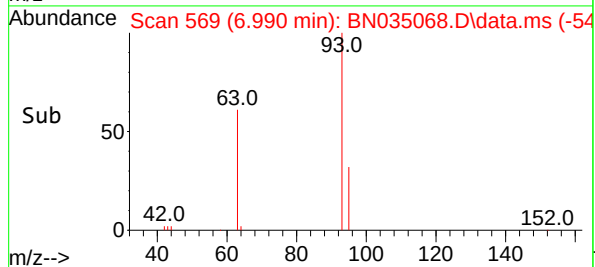
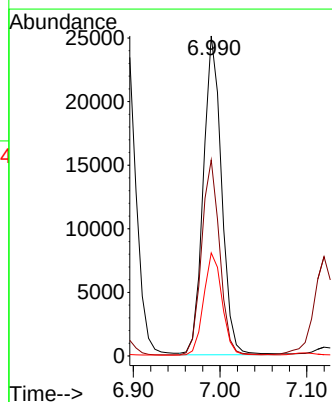
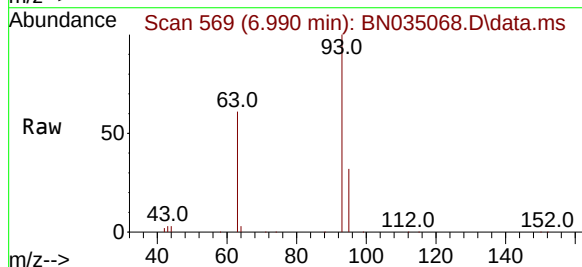
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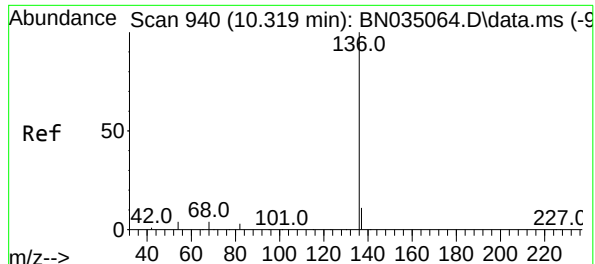
Tgt Ion: 99 Resp: 50689
Ion Ratio Lower Upper
99 100
42 14.6 11.4 17.0
71 43.2 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 4.860 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 93 Resp: 36728
Ion Ratio Lower Upper
93 100
63 60.5 47.4 71.2
95 32.3 26.2 39.4

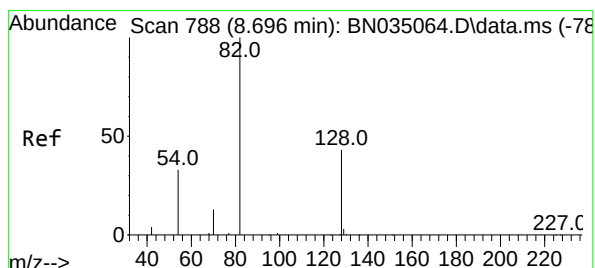
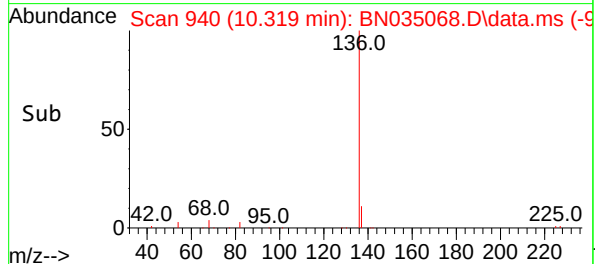
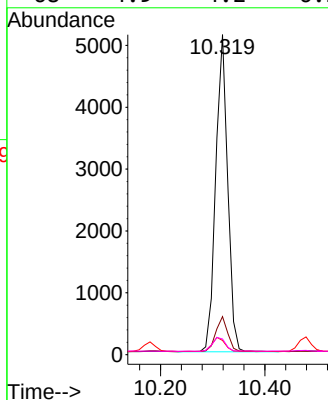
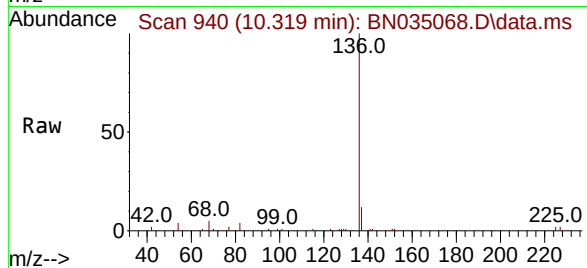




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

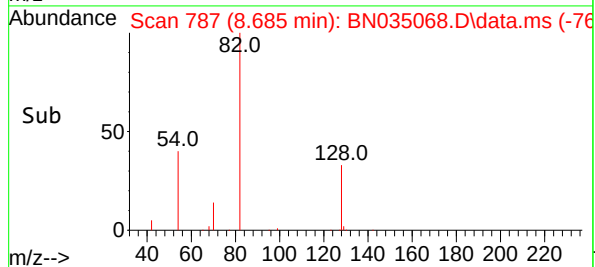
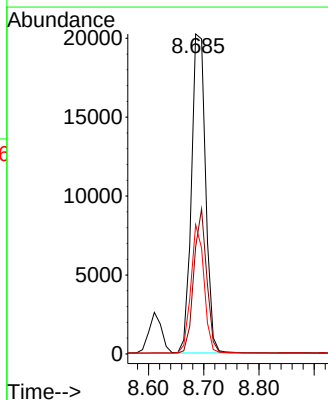
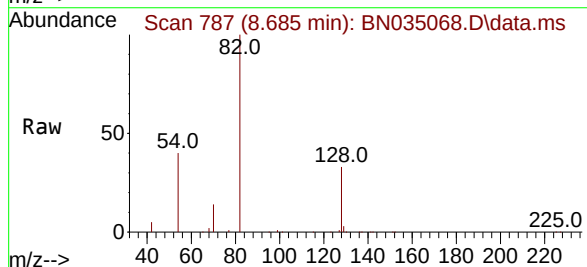
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

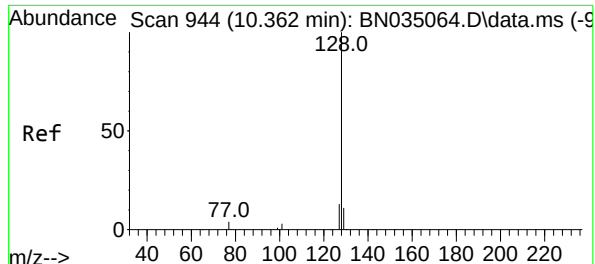
Tgt Ion:136	Resp:	8134
Ion	Ratio	Lower Upper
136	100	
137	11.9	9.8 14.8
54	4.4	4.0 6.0
68	4.9	4.2 6.2



#8
Nitrobenzene-d5
Concen: 5.091 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 82	Resp:	35941
Ion	Ratio	Lower Upper
82	100	
128	33.5	36.5 54.7#
54	40.4	28.7 43.1

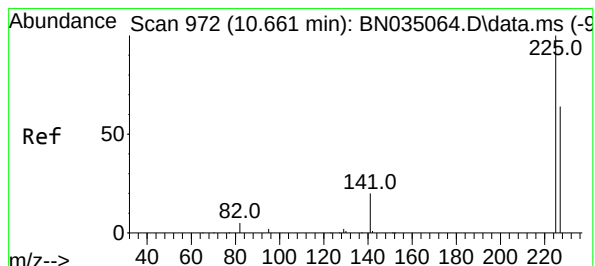
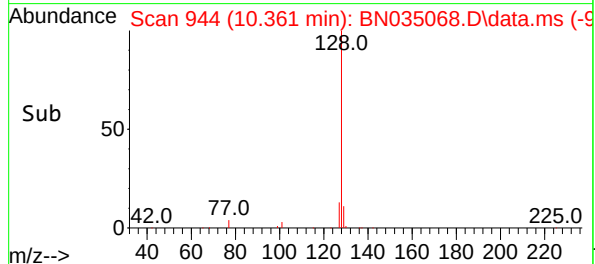
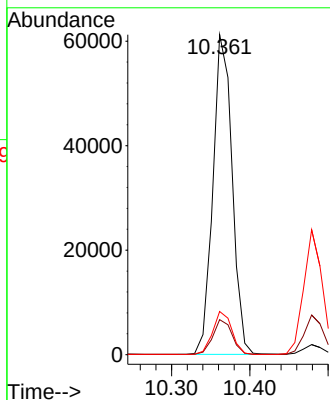
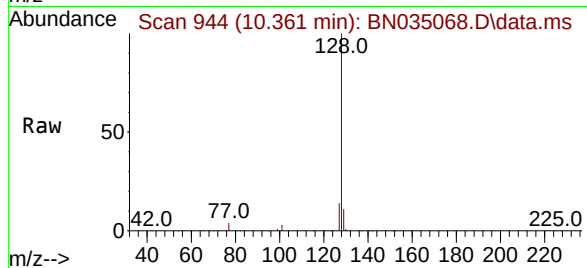




#9
Naphthalene
Concen: 4.914 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

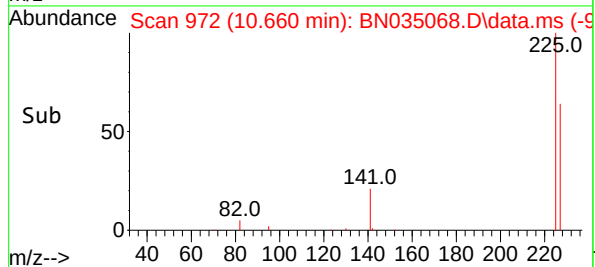
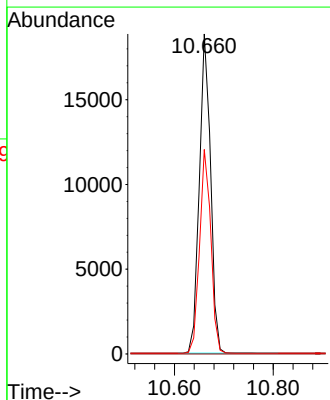
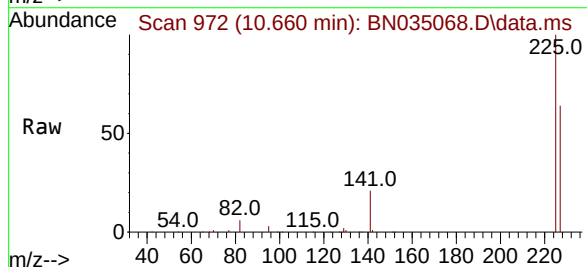
Instrument :
BNA_N
ClientSampleId :
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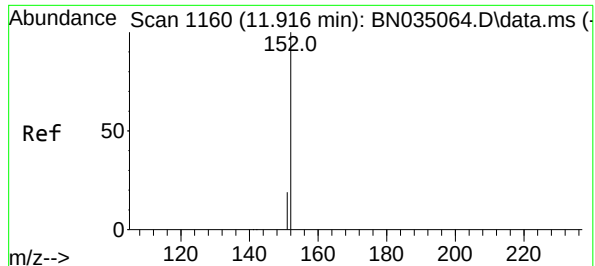
Tgt Ion:128 Resp: 104370
Ion Ratio Lower Upper
128 100
129 10.9 9.6 14.4
127 13.5 11.6 17.4



#10
Hexachlorobutadiene
Concen: 4.757 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:225 Resp: 29615
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.5 77.3

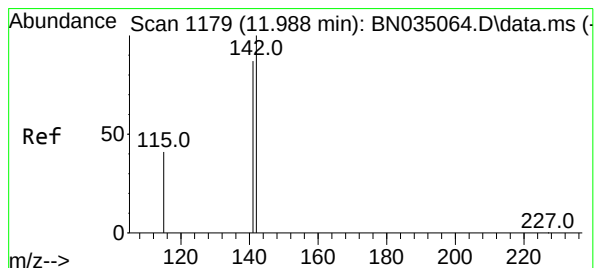
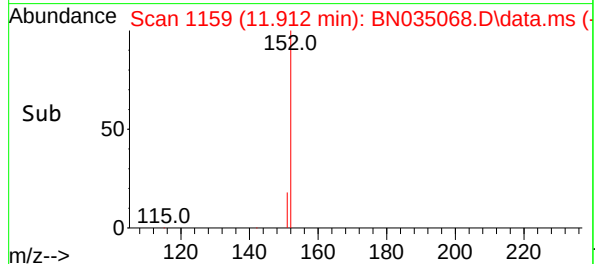
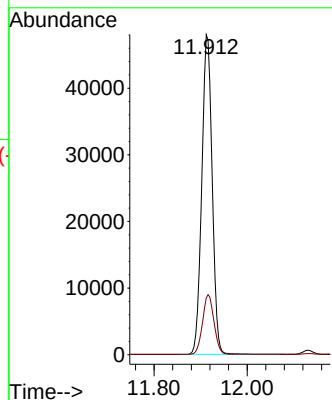
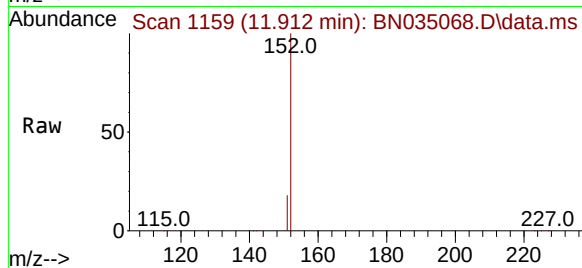




#11
2-Methylnaphthalene-d10
Concen: 5.128 ng
RT: 11.912 min Scan# 1160
Delta R.T. -0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

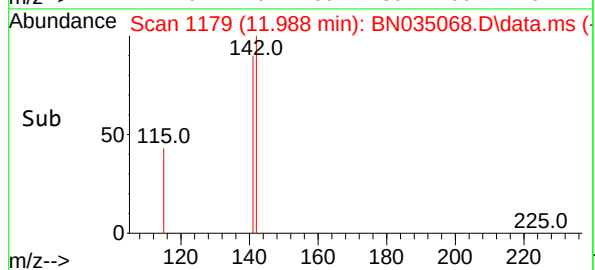
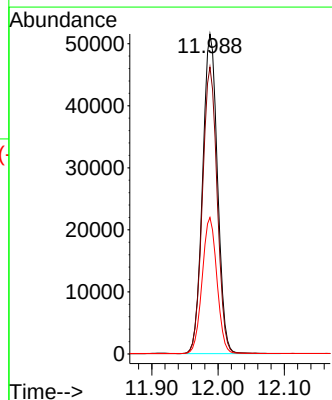
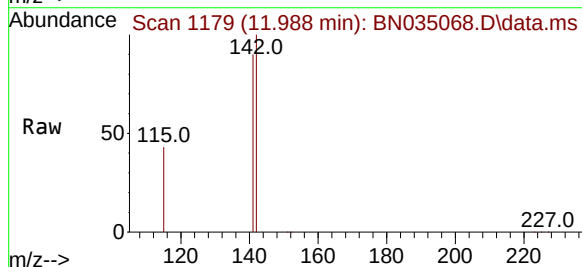
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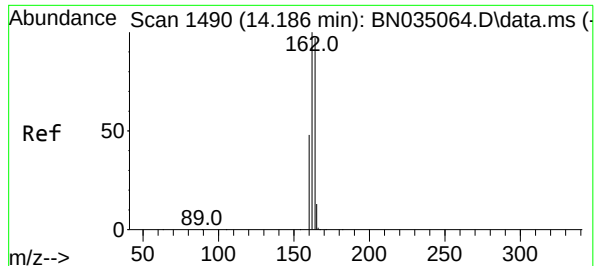
Tgt Ion:152 Resp: 74330
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.4



#12
2-Methylnaphthalene
Concen: 5.118 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:142 Resp: 80182
Ion Ratio Lower Upper
142 100
141 89.7 70.1 105.1
115 42.7 34.4 51.6

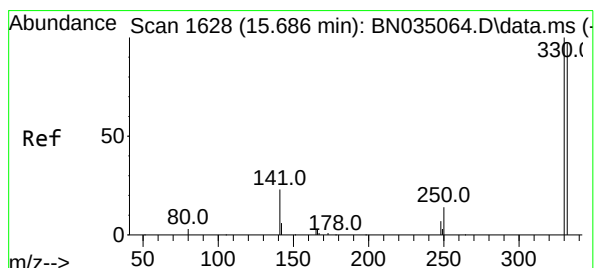
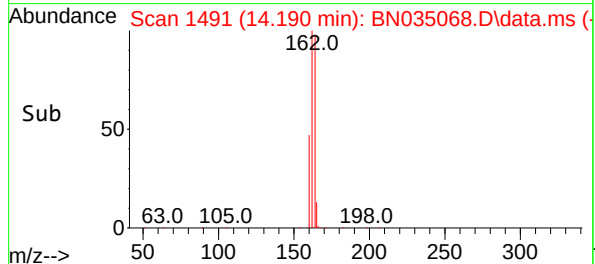
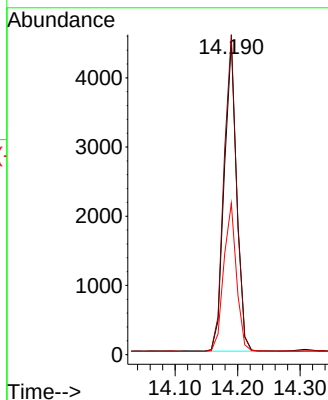
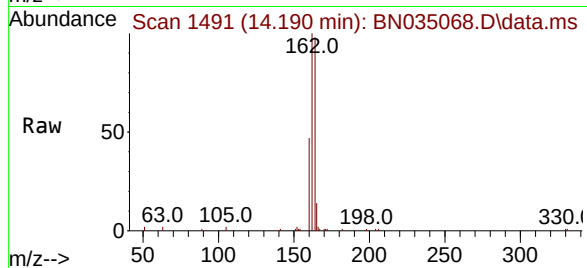




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

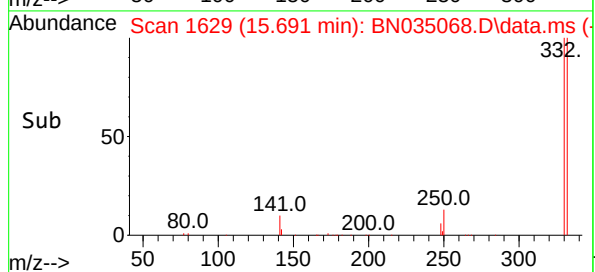
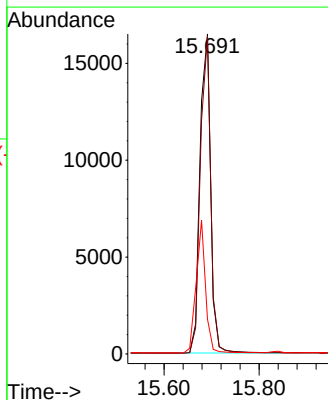
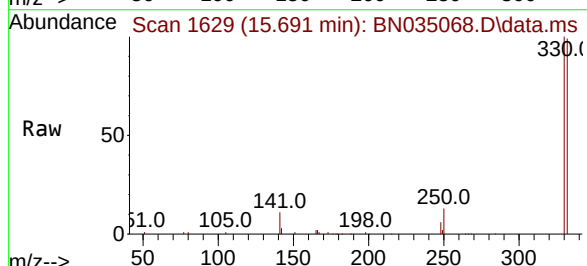
Instrument :
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ClientSampleId :
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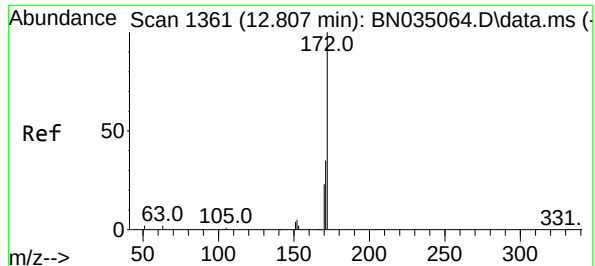
Tgt Ion:164 Resp: 6225
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 48.4 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 5.740 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:330 Resp: 25763
Ion Ratio Lower Upper
330 100
332 96.7 76.9 115.3
141 36.4 29.6 44.4





#15

2-Fluorobiphenyl

Concen: 4.967 ng

RT: 12.811 min Scan# 1362

Delta R.T. 0.004 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

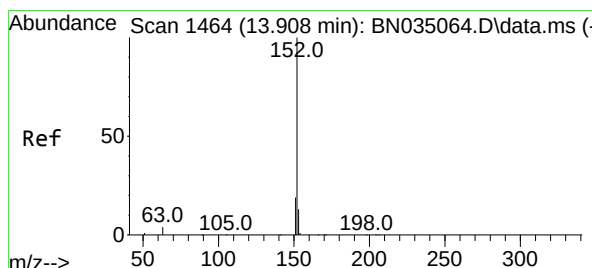
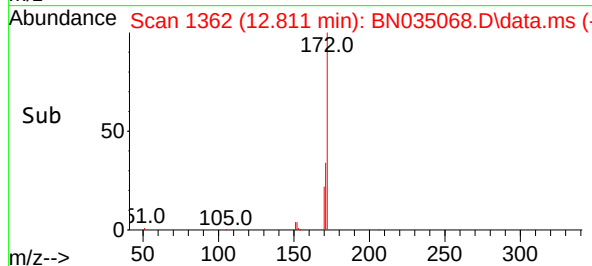
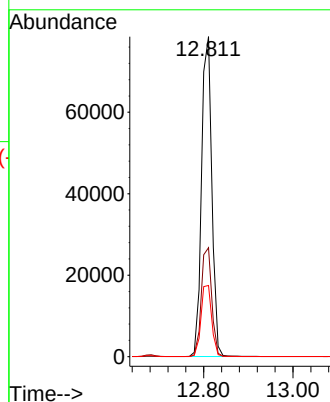
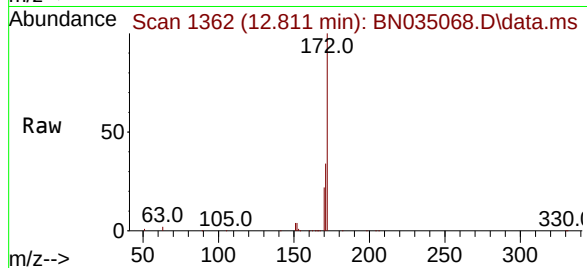
Tgt Ion:172 Resp: 125581

Ion Ratio Lower Upper

172 100

171 34.1 28.2 42.4

170 22.3 19.0 28.6



#16

Acenaphthylene

Concen: 5.250 ng

RT: 13.901 min Scan# 1464

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

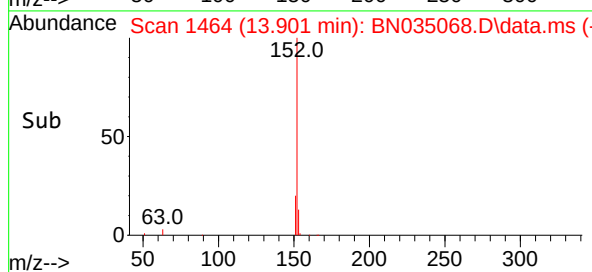
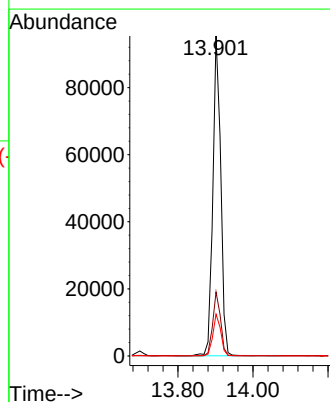
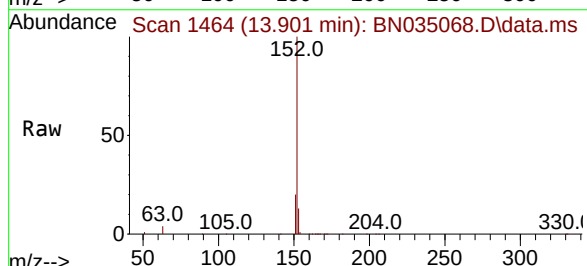
Tgt Ion:152 Resp: 139668

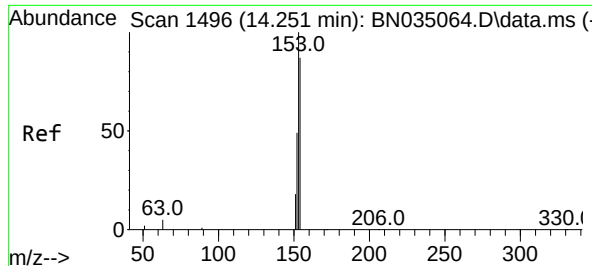
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.8

153 13.0 10.2 15.4

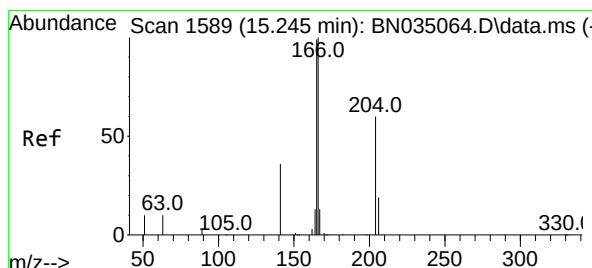
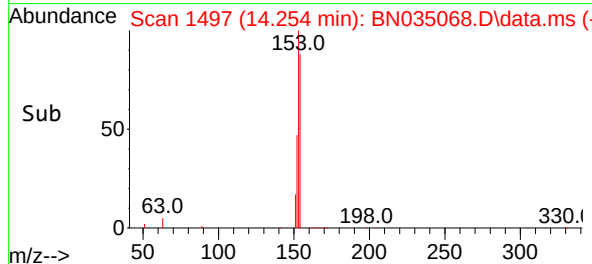
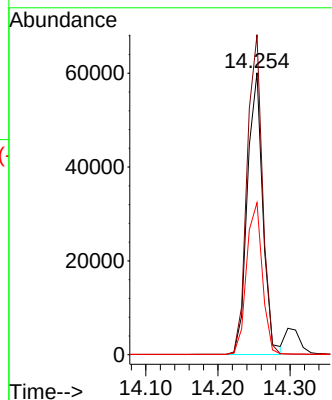
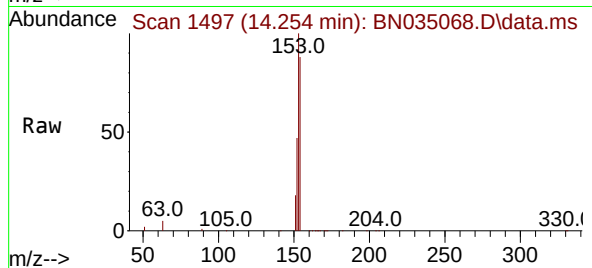




#17
Acenaphthene
Concen: 5.115 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

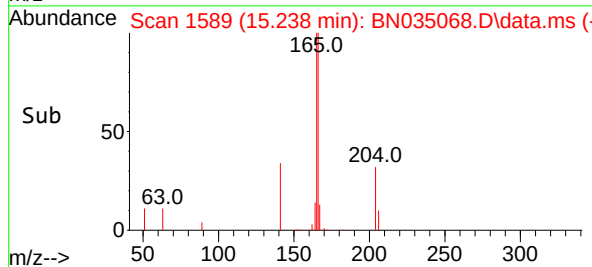
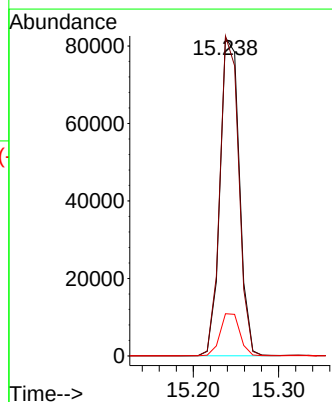
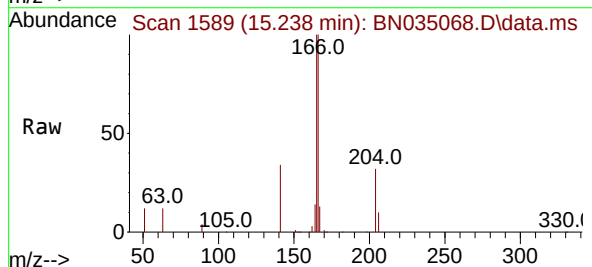
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

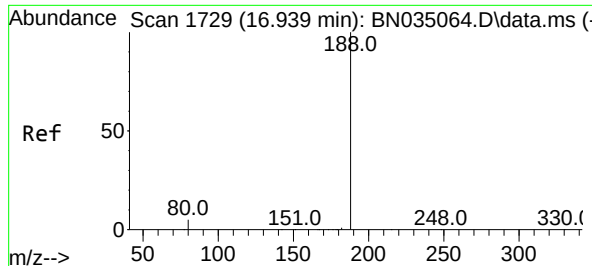
Tgt Ion:154 Resp: 89181
Ion Ratio Lower Upper
154 100
153 113.0 91.6 137.4
152 55.3 45.8 68.6



#18
Fluorene
Concen: 5.033 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:166 Resp: 129071
Ion Ratio Lower Upper
166 100
165 98.2 79.1 118.7
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

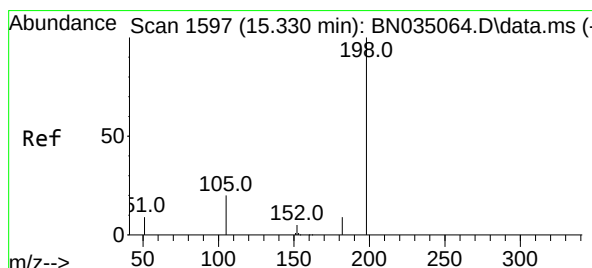
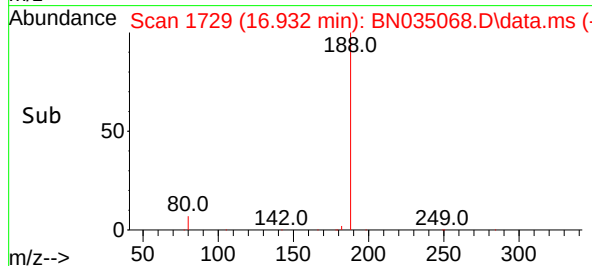
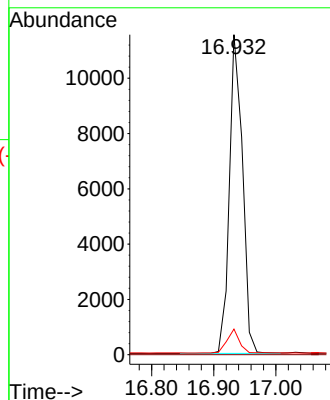
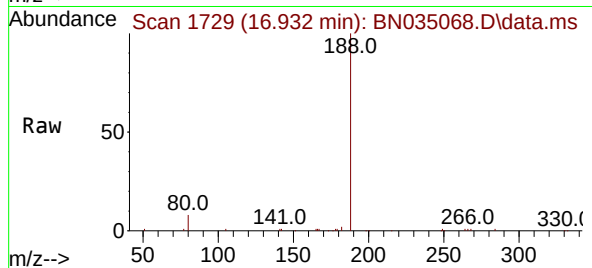
Tgt Ion:188 Resp: 16809

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 6.304 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

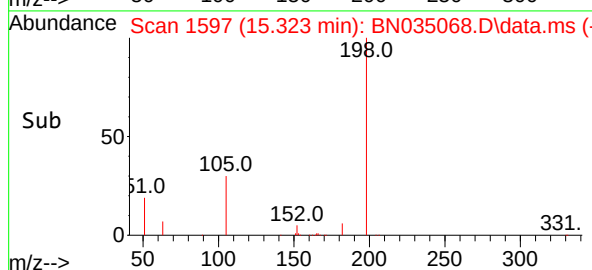
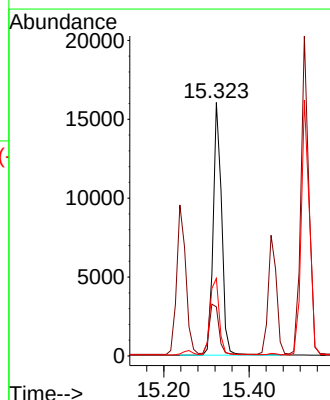
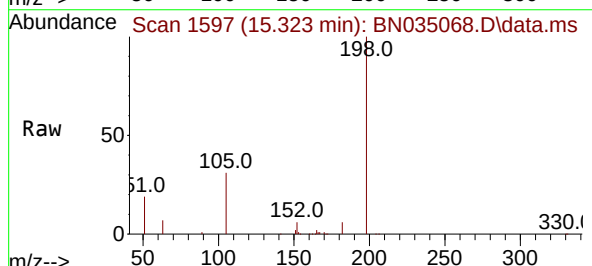
Tgt Ion:198 Resp: 22059

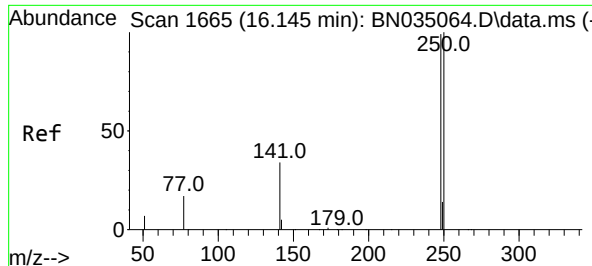
Ion Ratio Lower Upper

198 100

51 19.4 29.9 44.9#

105 30.6 23.7 35.5

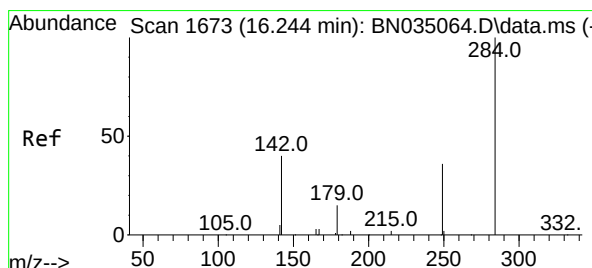
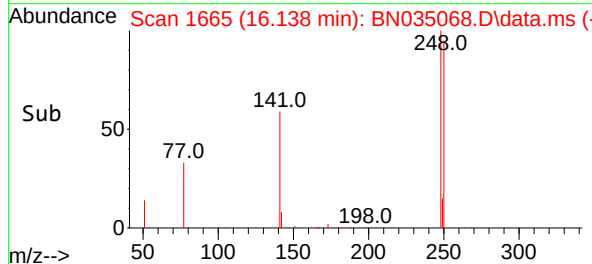
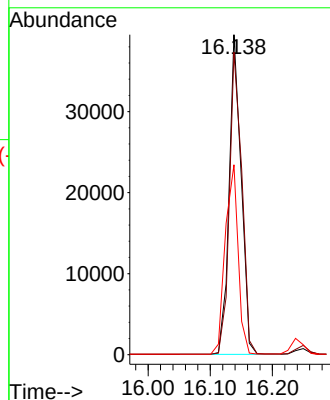
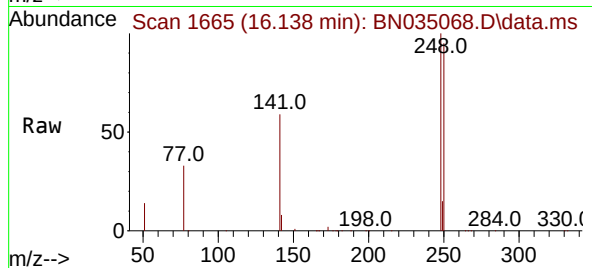




#21
4-Bromophenyl-phenylether
Concen: 4.935 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

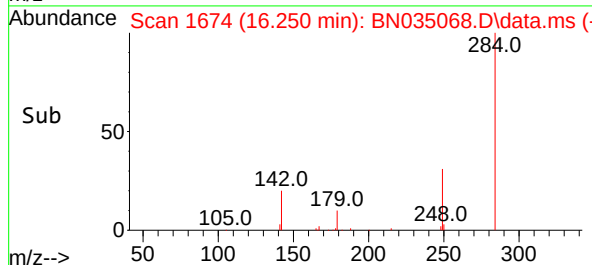
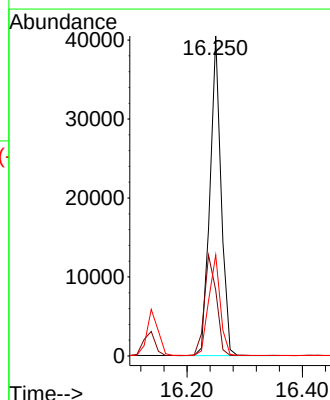
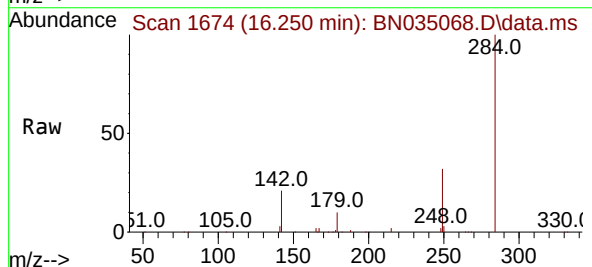
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

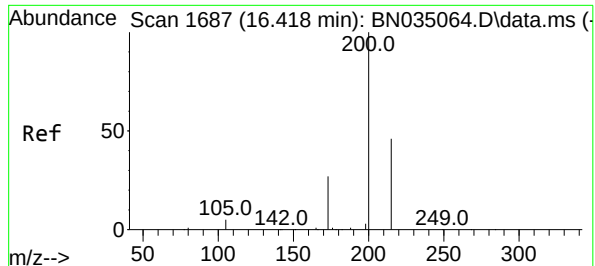
Tgt Ion:248 Resp: 52850
Ion Ratio Lower Upper
248 100
250 94.6 81.2 121.8
141 59.4 29.1 43.7#



#22
Hexachlorobenzene
Concen: 4.870 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:284 Resp: 54126
Ion Ratio Lower Upper
284 100
142 34.0 28.2 42.4
249 32.4 26.2 39.2

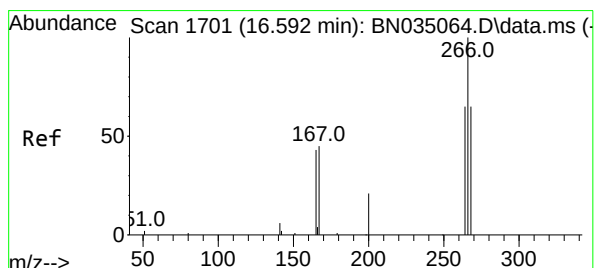
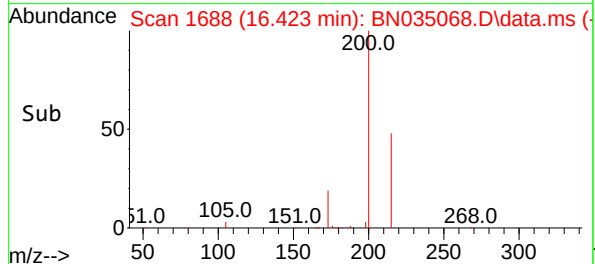
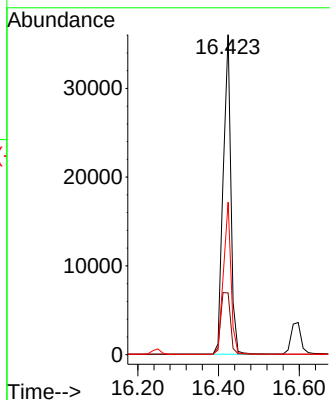
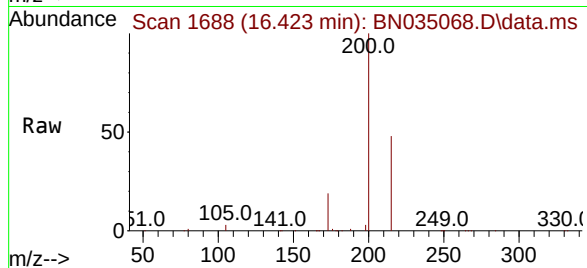




#23
Atrazine
Concen: 4.928 ng
RT: 16.423 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

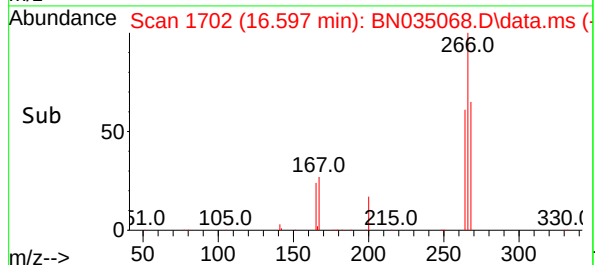
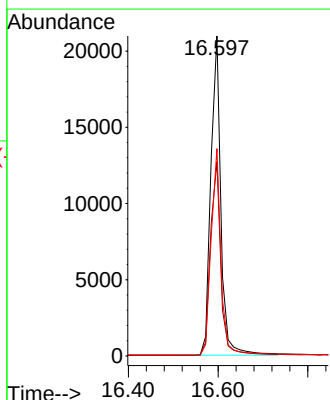
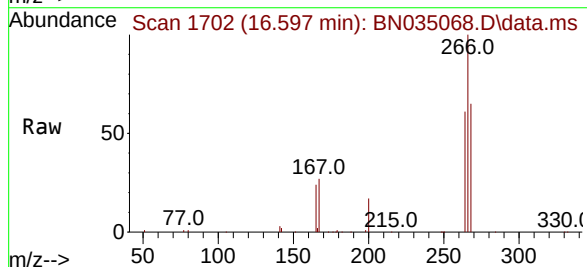
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

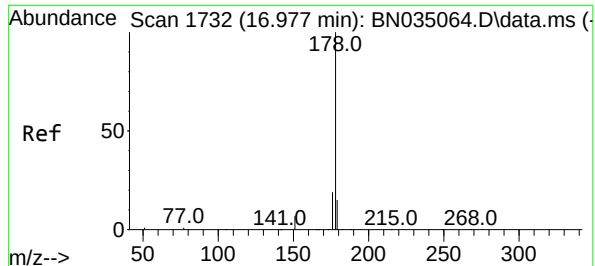
Tgt Ion:200 Resp: 47349
Ion Ratio Lower Upper
200 100
173 19.3 22.6 33.8#
215 47.7 37.8 56.6



#24
Pentachlorophenol
Concen: 6.228 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:266 Resp: 32339
Ion Ratio Lower Upper
266 100
264 62.3 49.4 74.0
268 63.7 52.6 79.0





#25

Phenanthrene

Concen: 4.923 ng

RT: 16.982 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

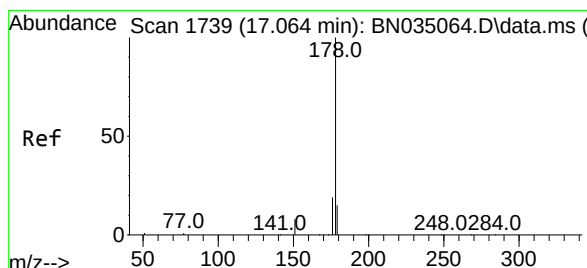
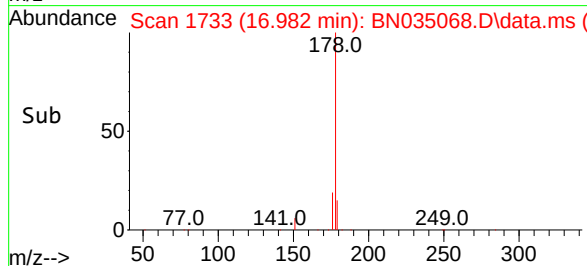
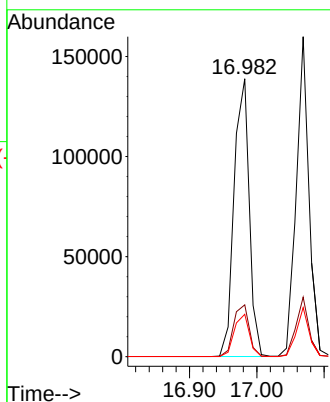
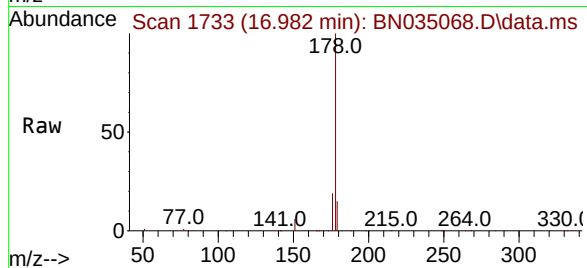
Tgt Ion:178 Resp: 217781

Ion Ratio Lower Upper

178 100

176 19.3 15.2 22.8

179 15.2 12.6 18.8



#26

Anthracene

Concen: 5.176 ng

RT: 17.069 min Scan# 1740

Delta R.T. 0.005 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

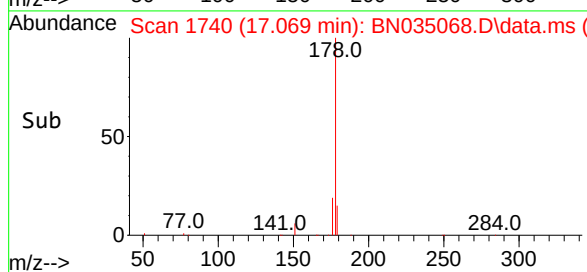
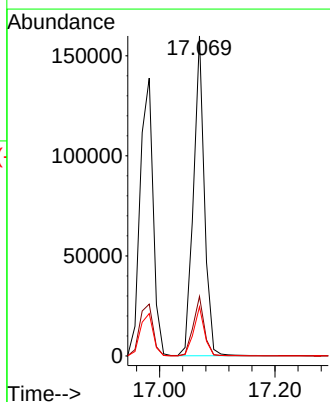
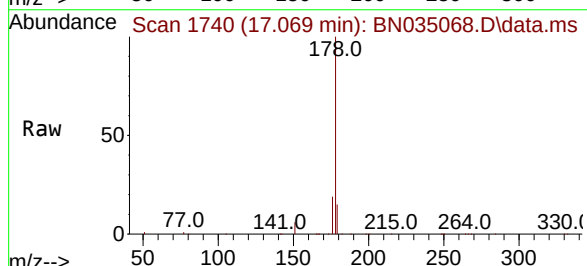
Tgt Ion:178 Resp: 210303

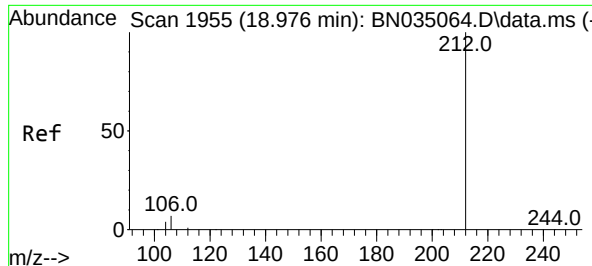
Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 5.059 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

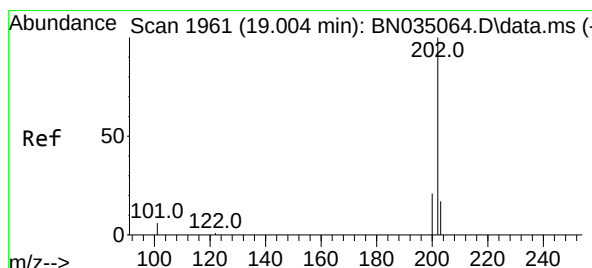
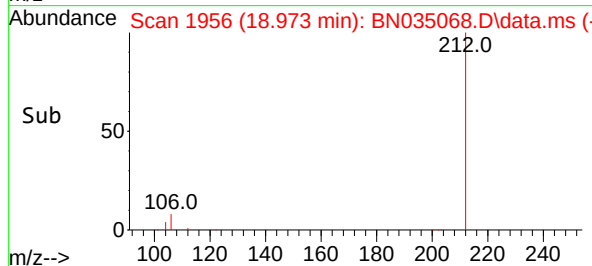
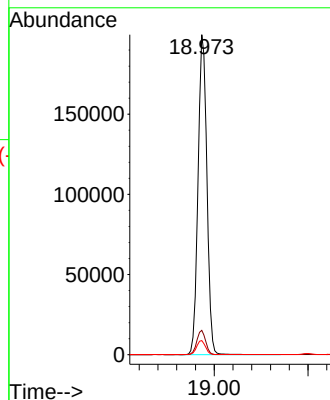
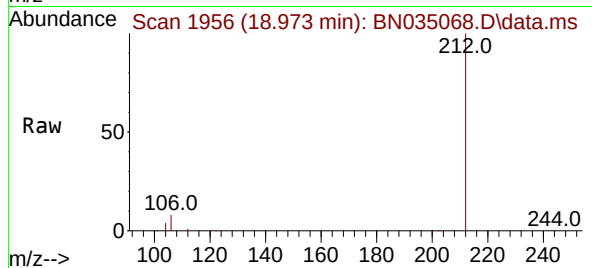
Tgt Ion:212 Resp: 260540

Ion Ratio Lower Upper

212 100

106 7.6 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 5.019 ng

RT: 19.006 min Scan# 1963

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

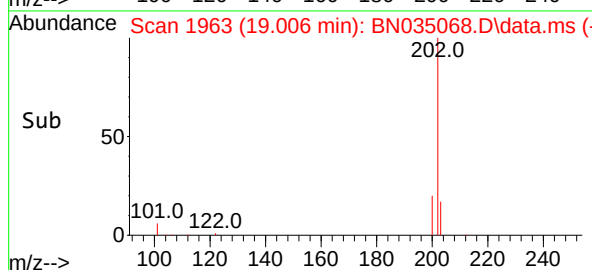
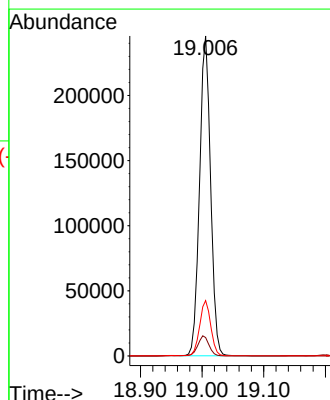
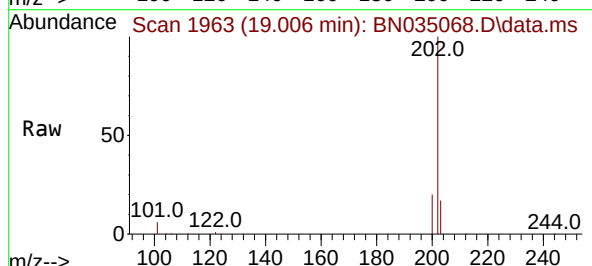
Tgt Ion:202 Resp: 305283

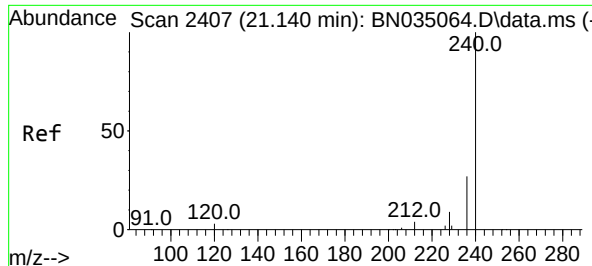
Ion Ratio Lower Upper

202 100

101 6.4 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

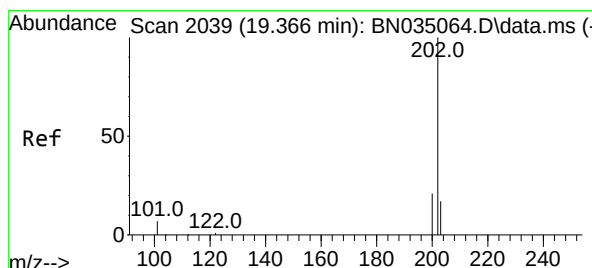
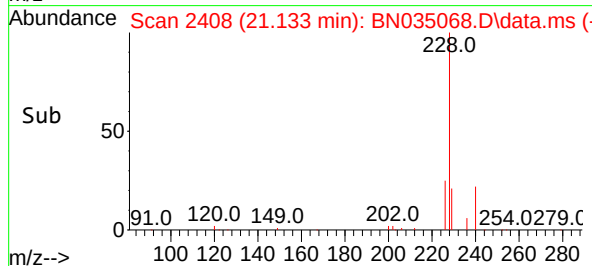
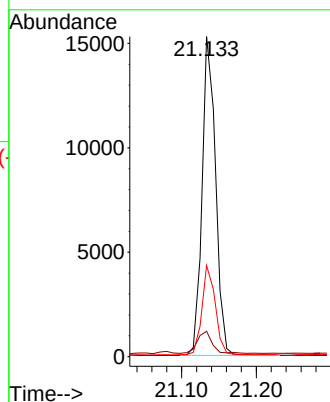
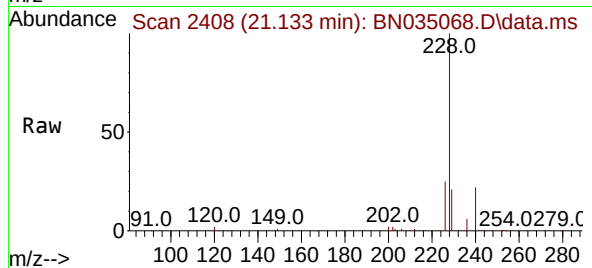
Tgt Ion:240 Resp: 19216

Ion Ratio Lower Upper

240 100

120 8.0 3.8 5.6#

236 28.5 22.2 33.2



#30

Pyrene

Concen: 4.942 ng

RT: 19.368 min Scan# 2041

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

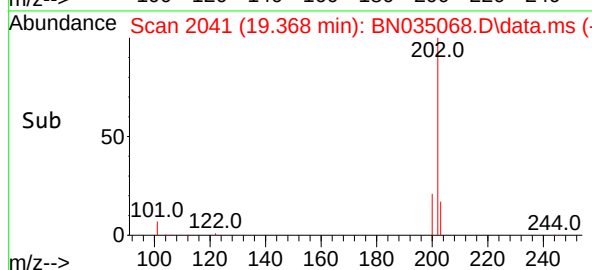
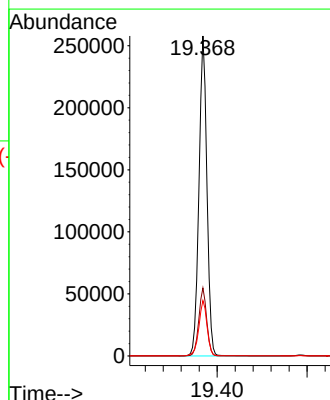
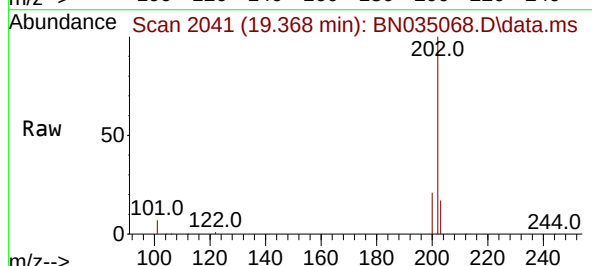
Tgt Ion:202 Resp: 316225

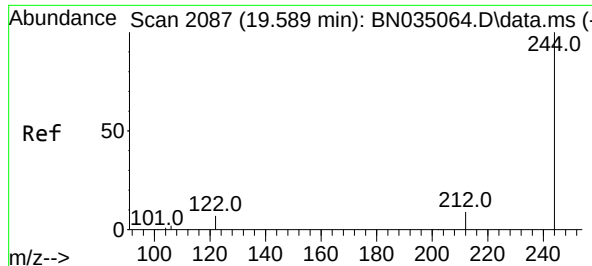
Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.9 14.2 21.4

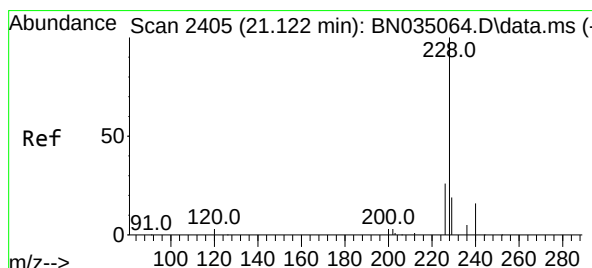
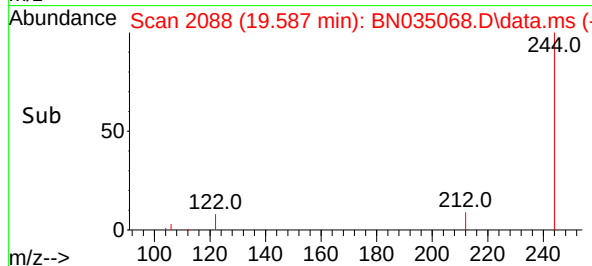
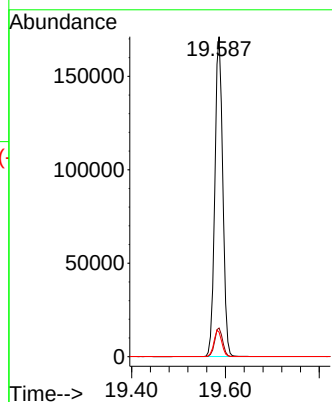
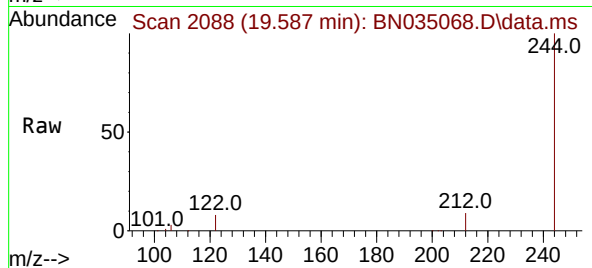




#31
Terphenyl-d14
Concen: 4.950 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

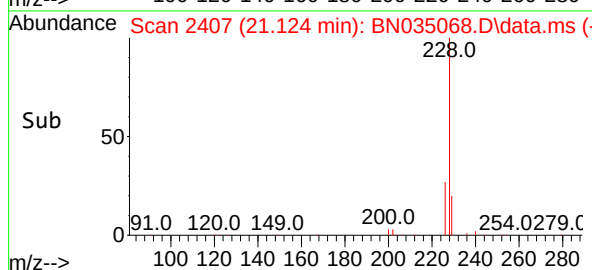
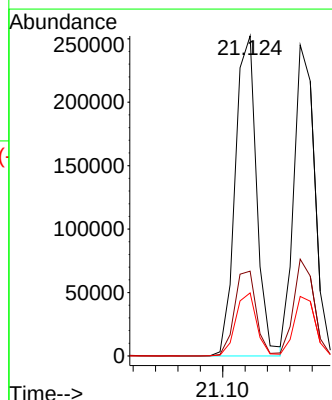
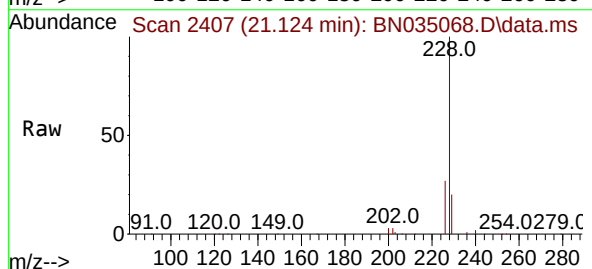
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

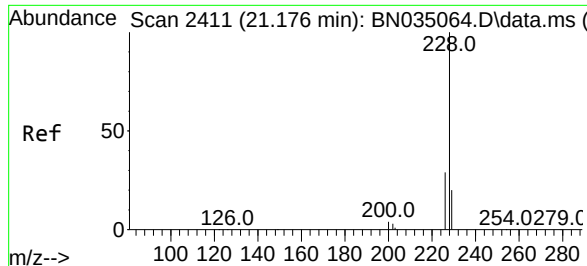
Tgt Ion:244 Resp: 199585
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.7 6.1 9.1



#32
Benzo(a)anthracene
Concen: 5.013 ng
RT: 21.124 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:228 Resp: 335437
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 19.7 15.7 23.5





#33

Chrysene

Concen: 4.786 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

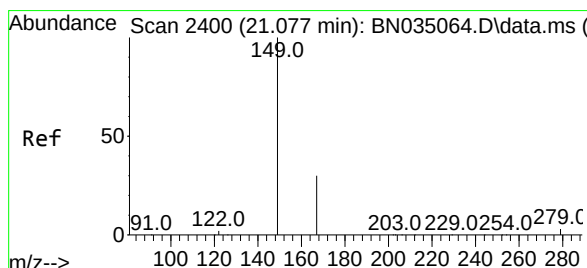
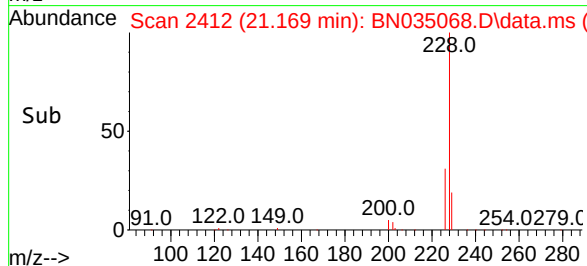
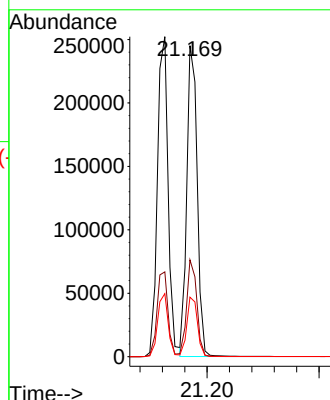
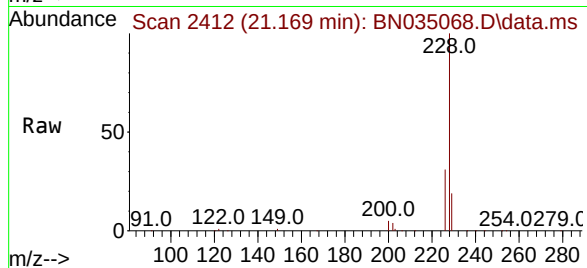
Tgt Ion:228 Resp: 317200

Ion Ratio Lower Upper

228 100

226 31.1 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.121 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

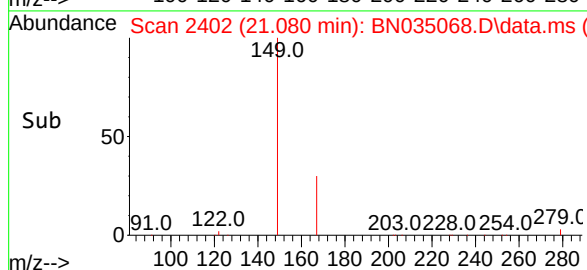
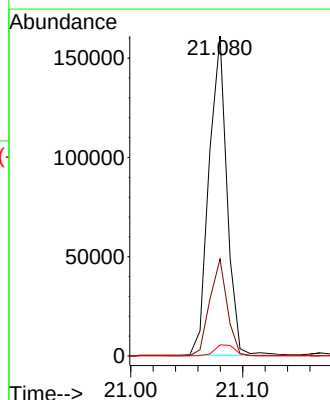
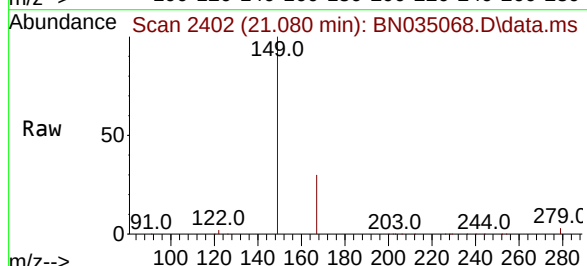
Tgt Ion:149 Resp: 178320

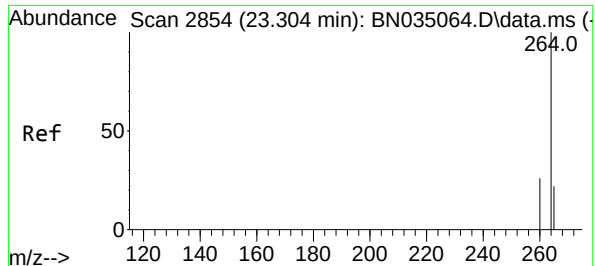
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

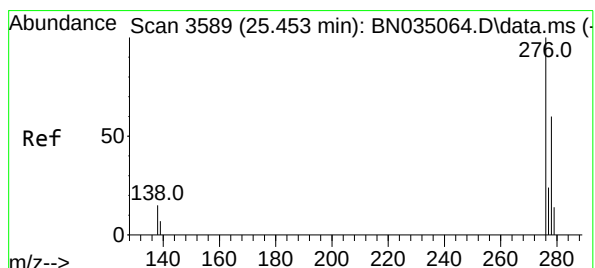
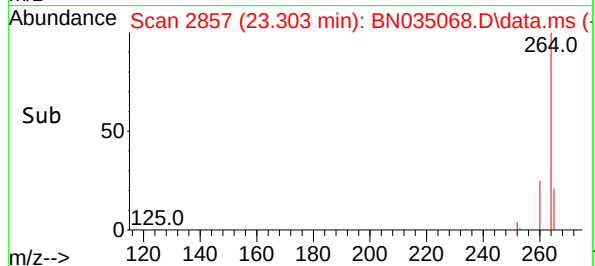
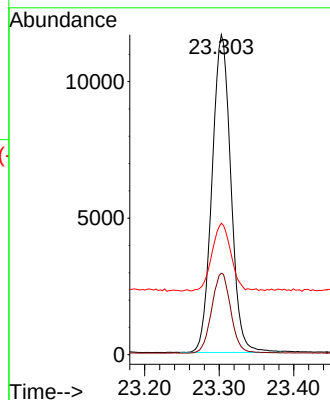
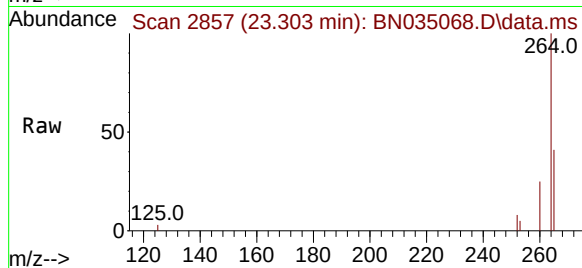
Tgt Ion:264 Resp: 20465

Ion Ratio Lower Upper

264 100

260 25.4 20.9 31.3

265 41.1 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.966 ng

RT: 25.455 min Scan# 3593

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

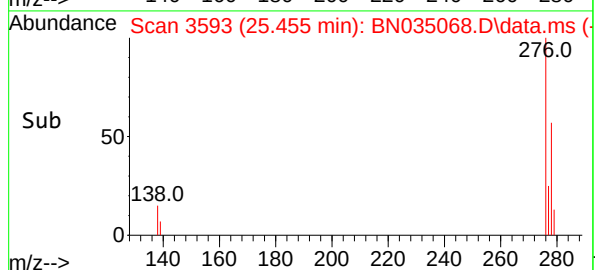
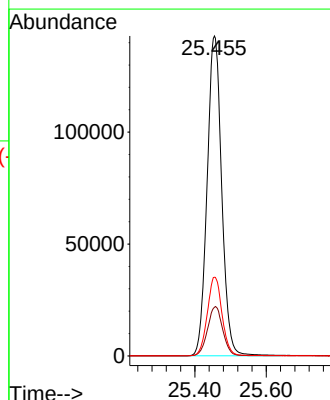
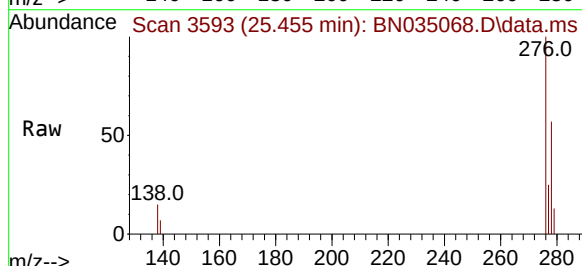
Tgt Ion:276 Resp: 405401

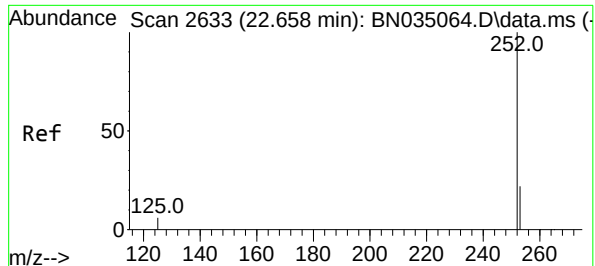
Ion Ratio Lower Upper

276 100

138 16.0 13.0 19.4

277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 5.049 ng

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

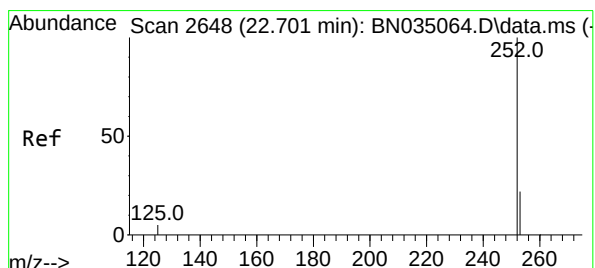
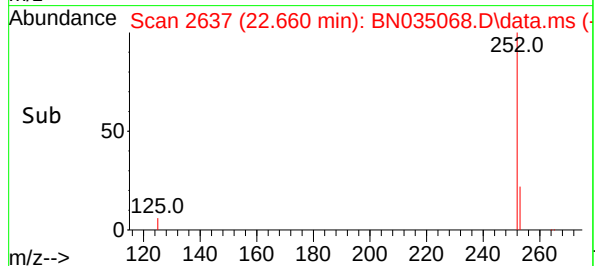
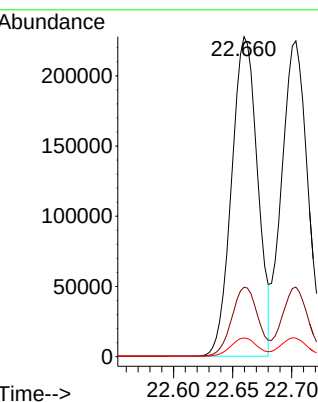
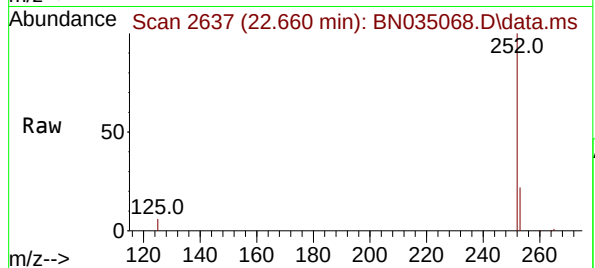
Tgt Ion:252 Resp: 347639

Ion Ratio Lower Upper

252 100

253 21.7 19.3 28.9

125 5.8 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 5.041 ng

RT: 22.703 min Scan# 2652

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

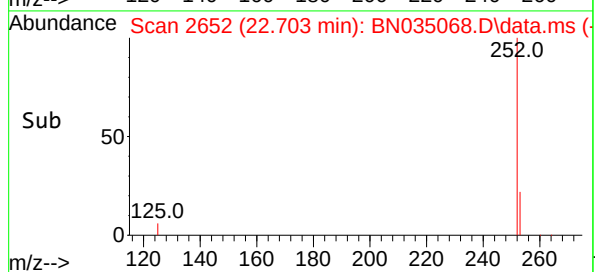
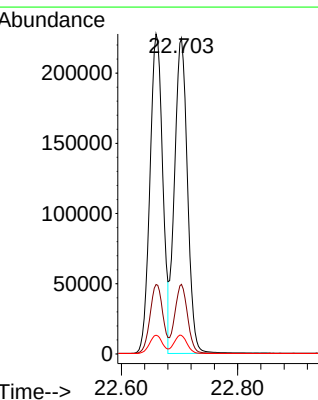
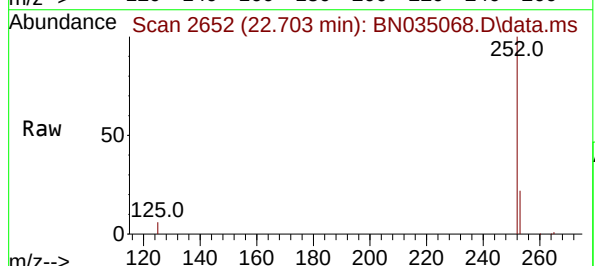
Tgt Ion:252 Resp: 347310

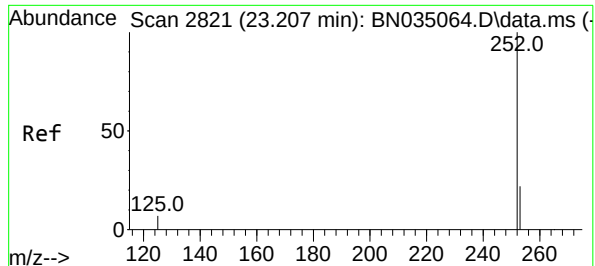
Ion Ratio Lower Upper

252 100

253 22.0 19.5 29.3

125 5.9 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 5.094 ng

RT: 23.209 min Scan# 2821

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

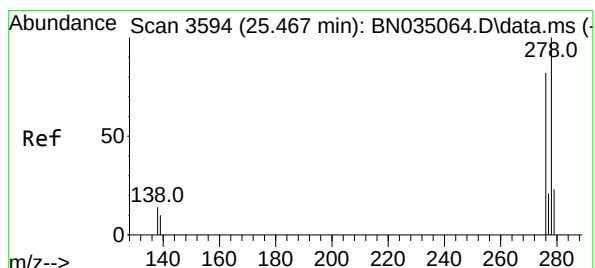
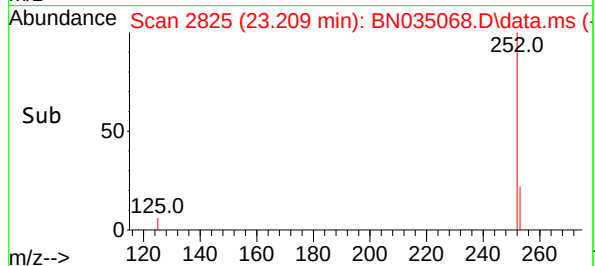
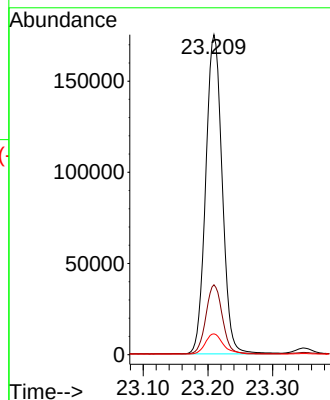
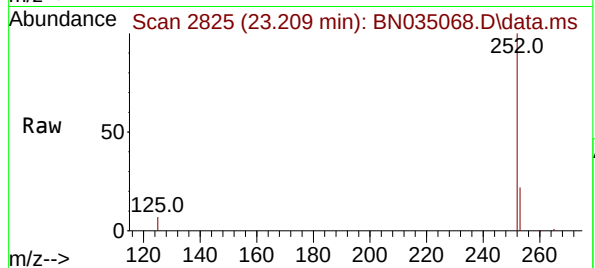
Tgt Ion:252 Resp: 308664

Ion Ratio Lower Upper

252 100

253 21.8 20.1 30.1

125 6.5 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 5.002 ng

RT: 25.469 min Scan# 3598

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

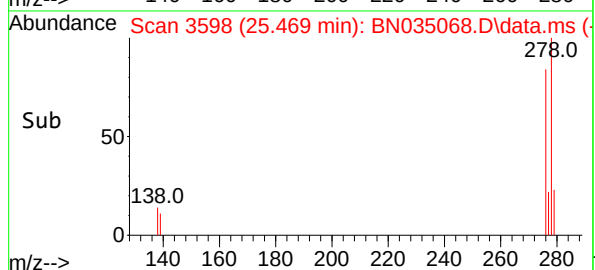
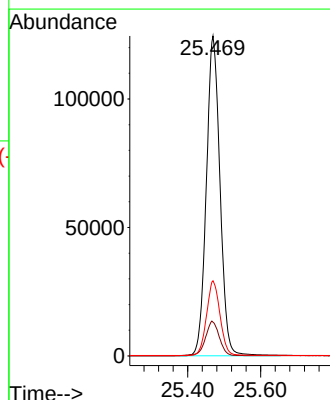
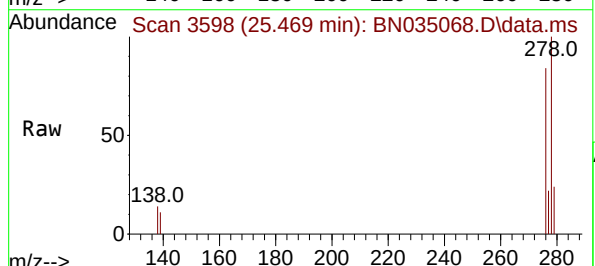
Tgt Ion:278 Resp: 323522

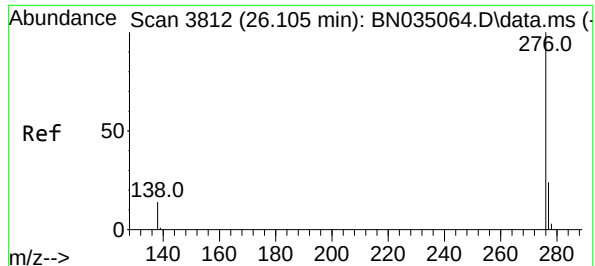
Ion Ratio Lower Upper

278 100

139 10.6 9.3 13.9

279 23.5 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 4.937 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035068.D

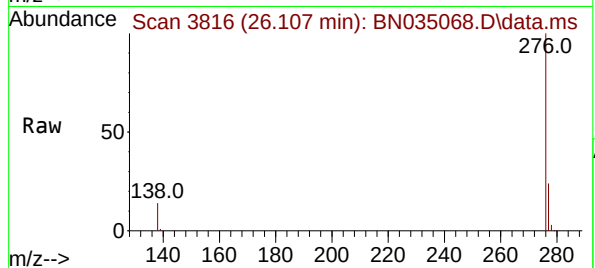
Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



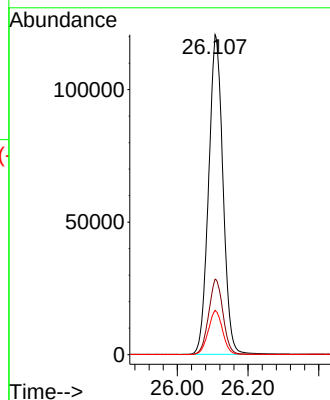
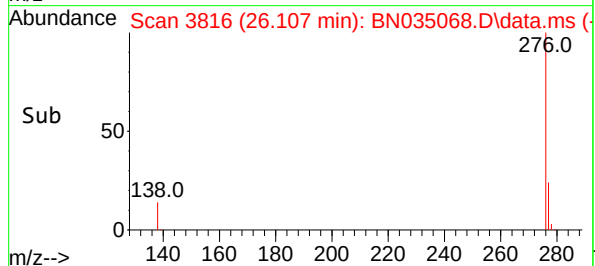
Tgt Ion:276 Resp: 339655

Ion Ratio Lower Upper

276 100

277 23.6 19.9 29.9

138 13.9 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035069.D
 Acq On : 13 Nov 2024 16:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 17:18:36 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 17:18:14 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2509	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6367	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4967	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	12682	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14055	0.400	ng	0.00
35) Perylene-d12	23.304	264	15724	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2342	0.368	ng	0.00
5) Phenol-d6	6.737	99	2867	0.359	ng	0.00
8) Nitrobenzene-d5	8.696	82	1983	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4166	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1154	0.322	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7205	0.357	ng	0.00
27) Fluoranthene-d10	18.976	212	14530	0.374	ng	0.00
31) Terphenyl-d14	19.584	244	11240	0.381	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.177	88	845	0.371	ng	99
3) n-Nitrosodimethylamine	3.473	42	781	0.368	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	2218	0.370	ng	98
9) Naphthalene	10.362	128	6092	0.366	ng	100
10) Hexachlorobutadiene	10.661	225	1817	0.373	ng	# 98
12) 2-Methylnaphthalene	11.988	142	4513	0.368	ng	99
16) Acenaphthylene	13.908	152	7387	0.348	ng	100
17) Acenaphthene	14.250	154	4995	0.359	ng	99
18) Fluorene	15.245	166	7206	0.352	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	870m	0.330	ng	
21) 4-Bromophenyl-phenylether	16.145	248	3001	0.371	ng	98
22) Hexachlorobenzene	16.244	284	3175	0.379	ng	99
23) Atrazine	16.418	200	2682	0.370	ng	98
24) Pentachlorophenol	16.592	266	1269	0.324	ng	98
25) Phenanthrene	16.977	178	12517	0.375	ng	99
26) Anthracene	17.063	178	11219	0.366	ng	100
28) Fluoranthene	19.004	202	17084	0.372	ng	100
30) Pyrene	19.366	202	17580	0.376	ng	100
32) Benzo(a)anthracene	21.122	228	18406	0.376	ng	99
33) Chrysene	21.176	228	18693	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	8691	0.338	ng	100
36) Indeno(1,2,3-cd)pyrene	25.450	276	23546	0.375	ng	99
37) Benzo(b)fluoranthene	22.660	252	20039	0.379	ng	99
38) Benzo(k)fluoranthene	22.701	252	20114	0.380	ng	98
39) Benzo(a)pyrene	23.210	252	17596	0.378	ng	99
40) Dibenzo(a,h)anthracene	25.467	278	18547	0.373	ng	98
41) Benzo(g,h,i)perylene	26.104	276	19649	0.372	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

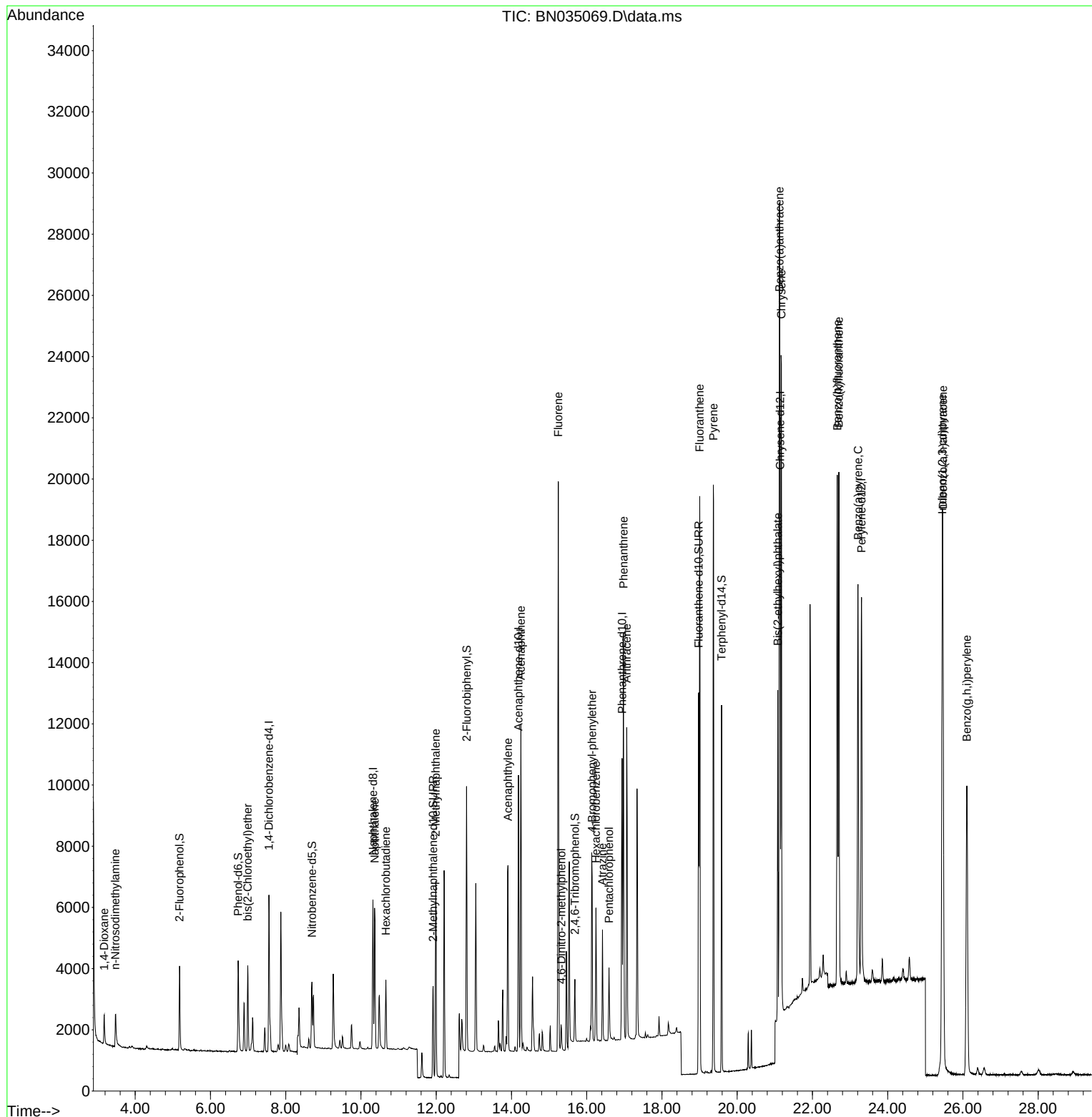
Manual Integrations

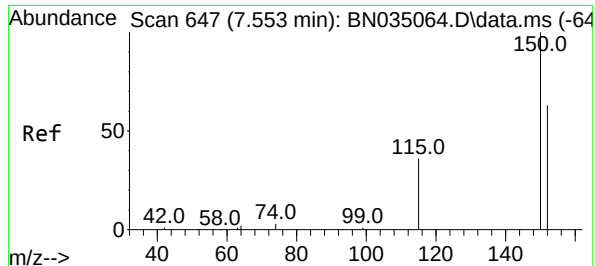
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

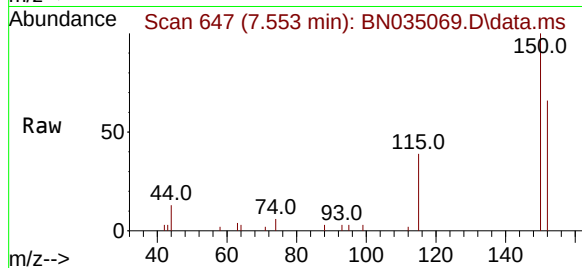
Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

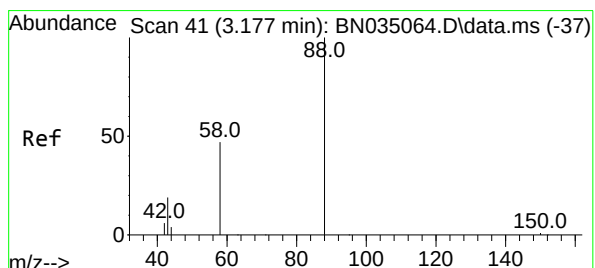
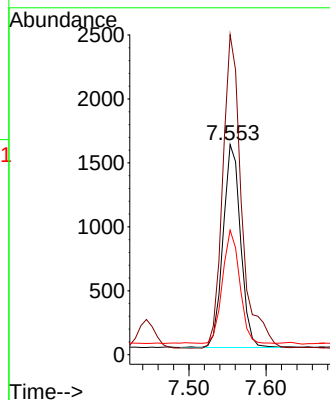
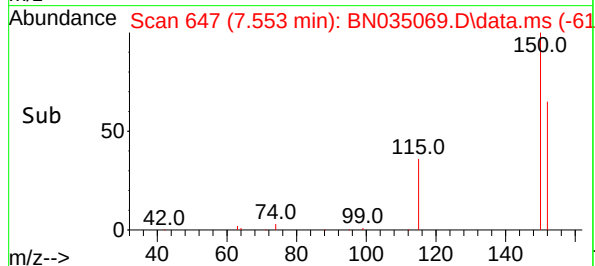
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion: 152 Resp: 2509
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 59.3 47.8 71.6

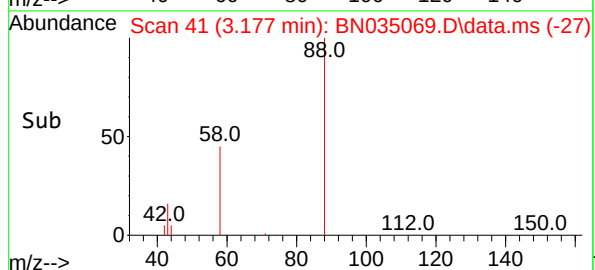
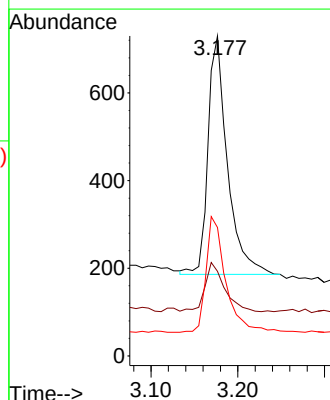
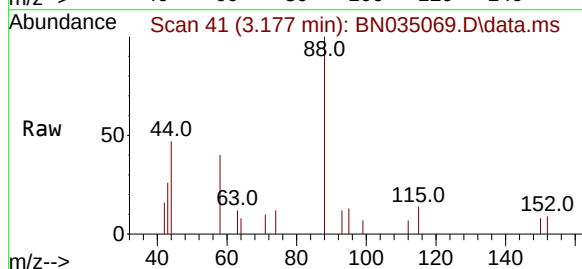
Manual Integrations
APPROVED

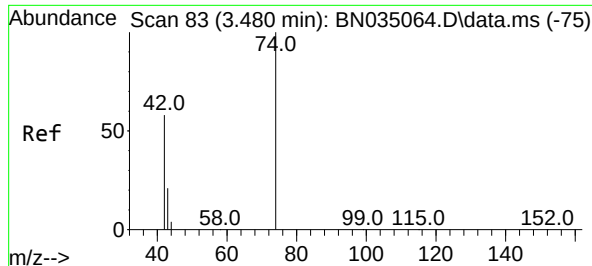
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 0.371 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 88 Resp: 845
Ion Ratio Lower Upper
88 100
43 20.8 16.9 25.3
58 49.1 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 0.368 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

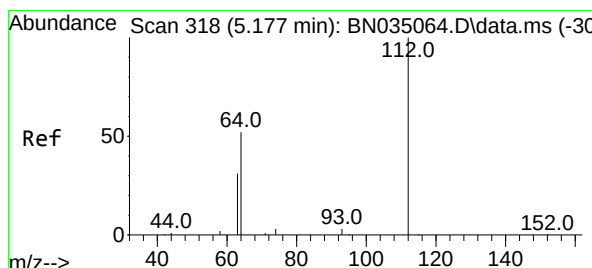
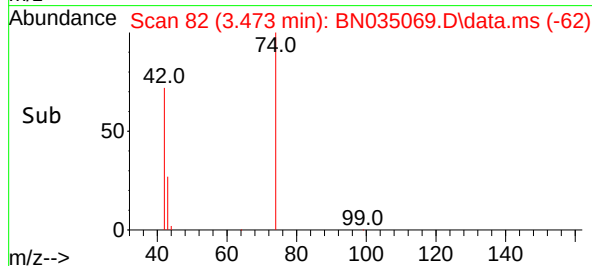
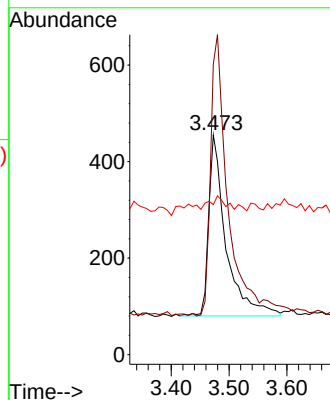
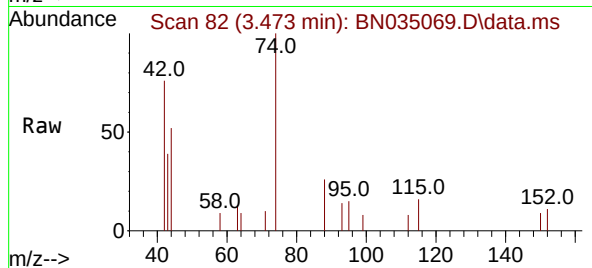
ClientSampleId :

ICVBN111324

Tgt Ion:	42	Ratio	100	Lower	Upper
42	100				
74	158.6		120.8	181.2	
44	8.7		2.9	4.3	

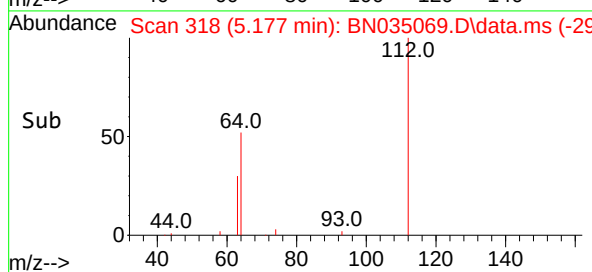
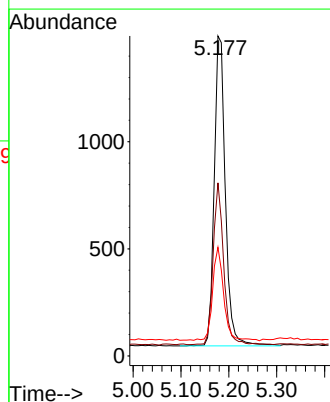
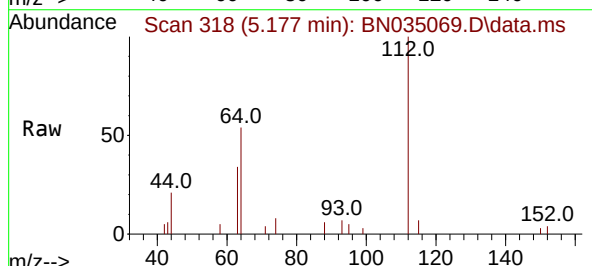
Manual Integrations
APPROVED

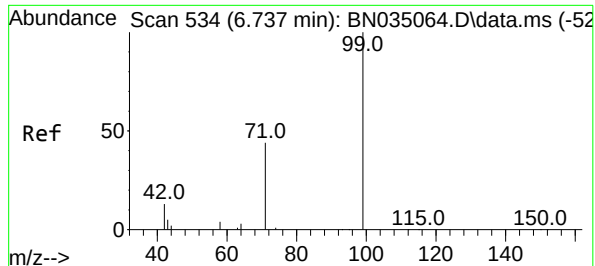
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	112	Ratio	100	Lower	Upper
112	100				
64	48.8		39.7	59.5	
63	30.1		23.0	34.4	





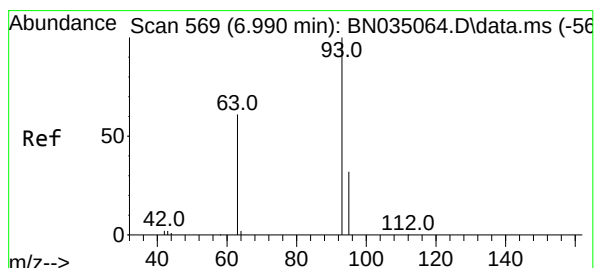
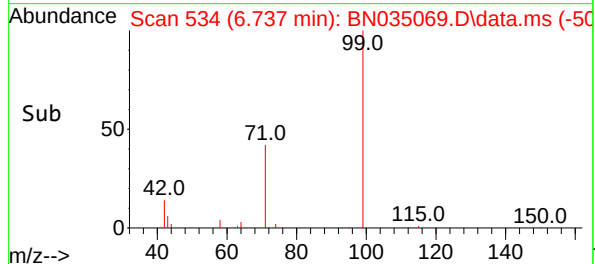
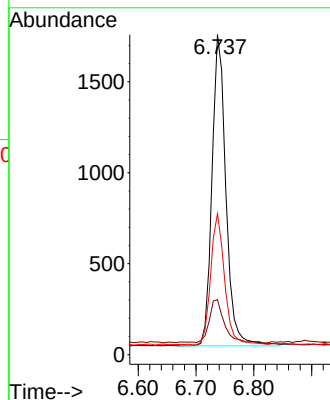
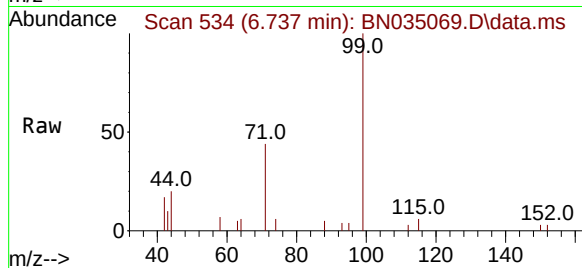
#5
Phenol-d6
Concen: 0.359 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion: 99 Resp: 286
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.0
71 42.1 34.6 51.8

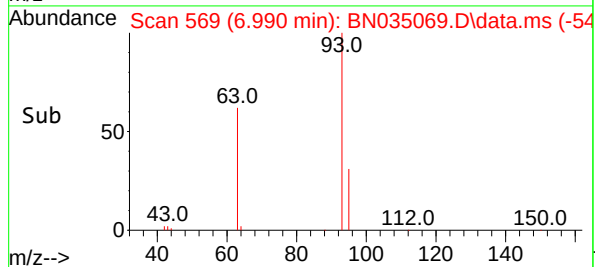
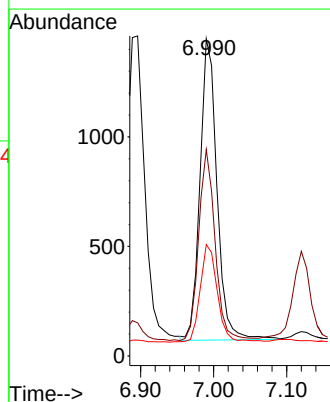
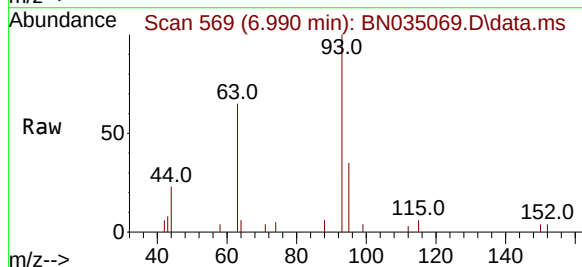
Manual Integrations
APPROVED

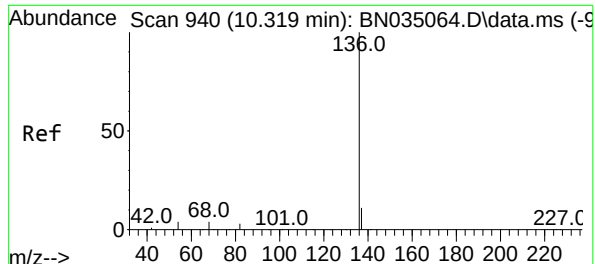
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 93 Resp: 2218
Ion Ratio Lower Upper
93 100
63 61.3 47.4 71.2
95 33.0 26.2 39.4





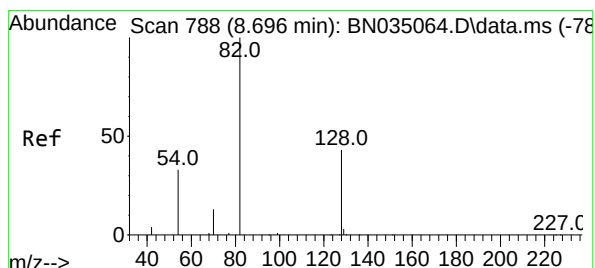
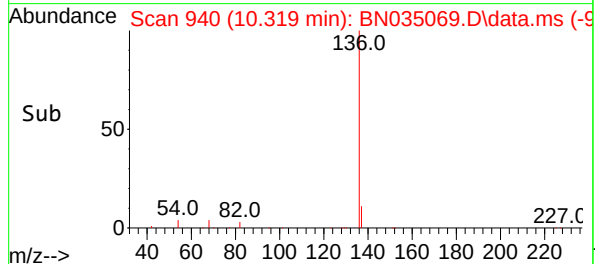
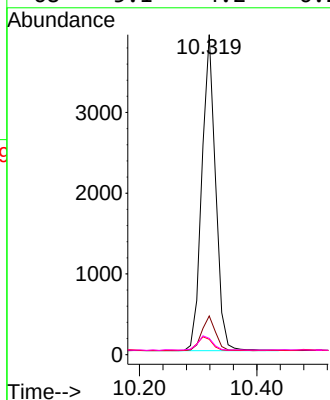
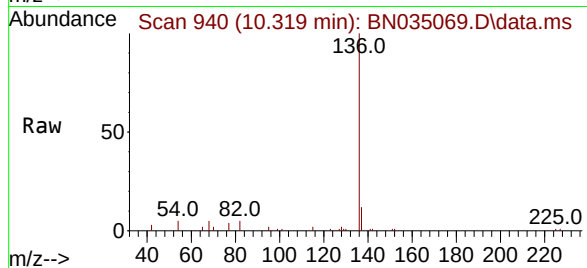
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion:	136	Resp:	636
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.8	4.0	6.0
68	5.1	4.2	6.2

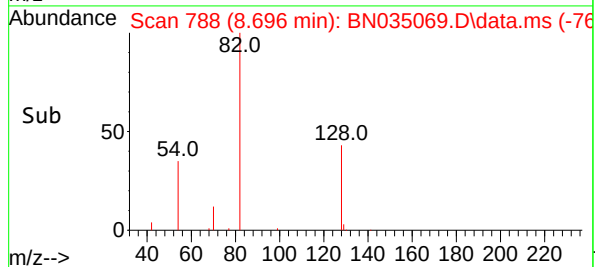
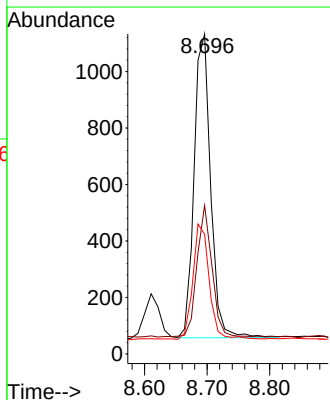
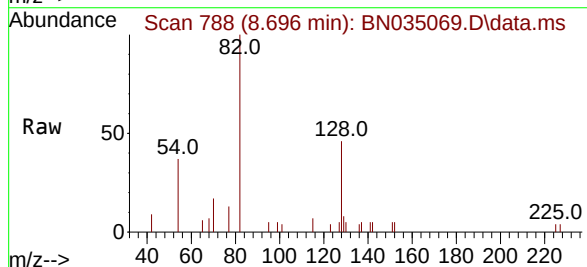
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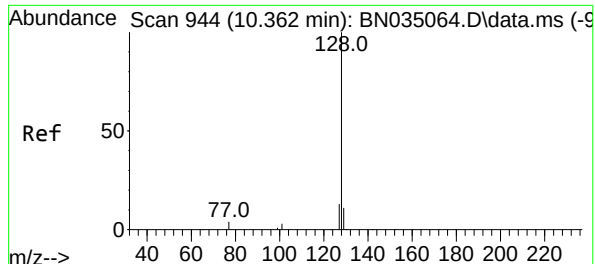
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	82	Resp:	1983
Ion	Ratio	Lower	Upper
82	100		
128	46.4	36.5	54.7
54	37.4	28.7	43.1





#9

Naphthalene

Concen: 0.366 ng

RT: 10.362 min Scan# 944

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

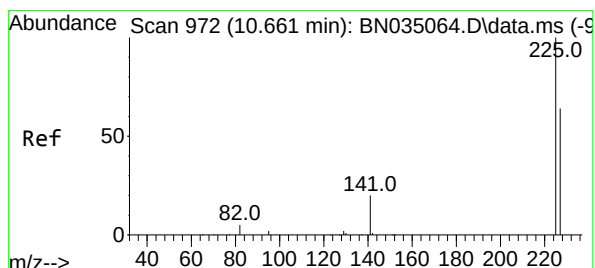
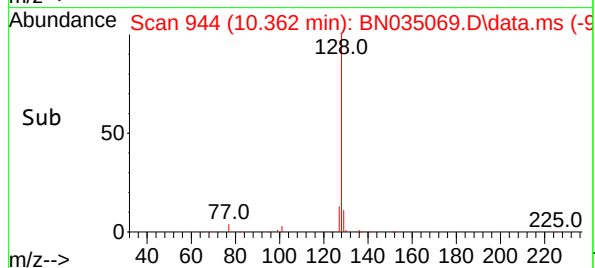
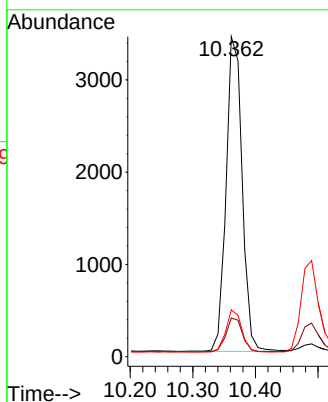
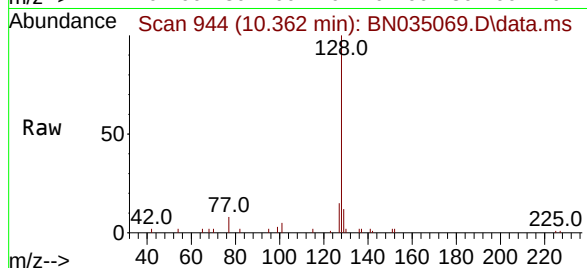
ICVBN111324

Tgt Ion:	128	Resp:	609
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.6	14.4
127	14.7	11.6	17.4

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#10

Hexachlorobutadiene

Concen: 0.373 ng

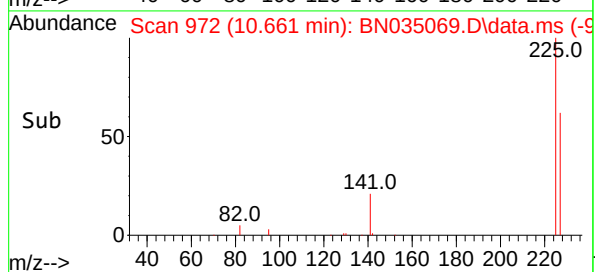
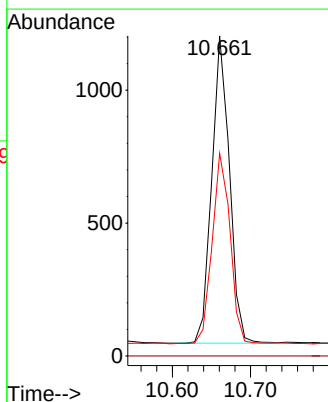
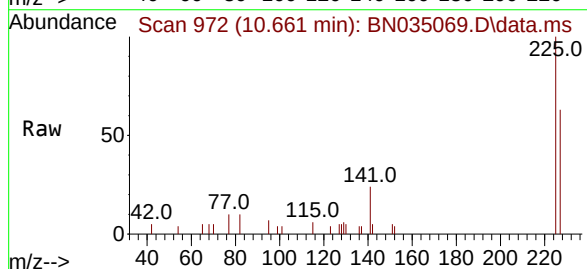
RT: 10.661 min Scan# 972

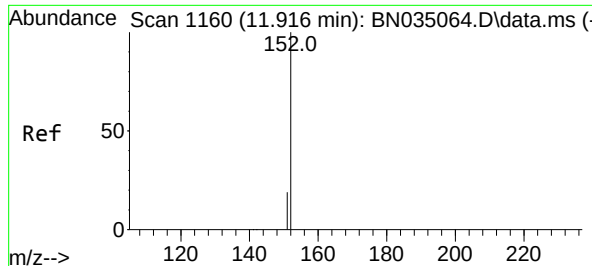
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

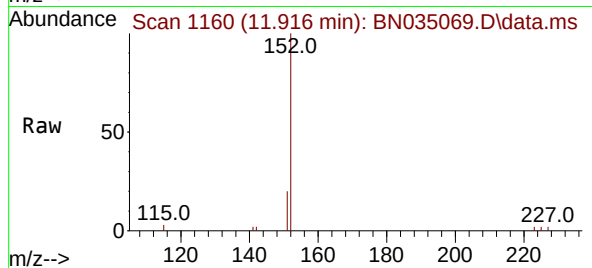
Tgt Ion:	225	Resp:	1817
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.5	77.3





#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

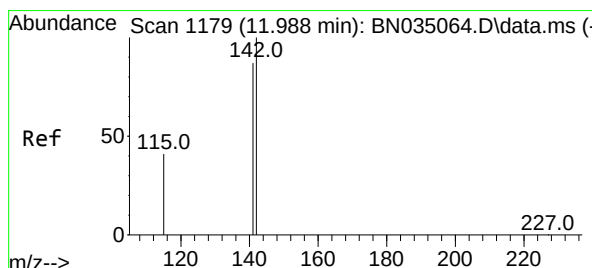
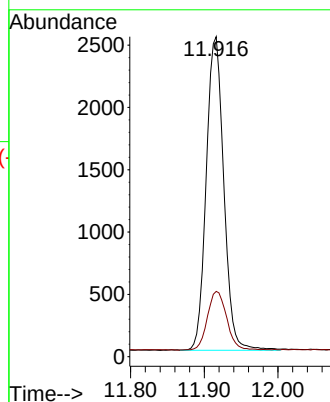
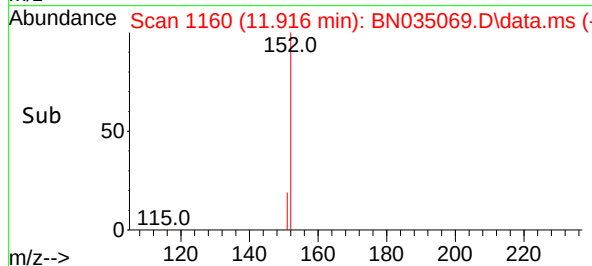
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



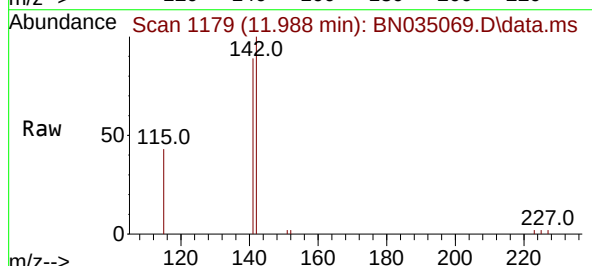
Tgt Ion:152 Resp: 4160
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

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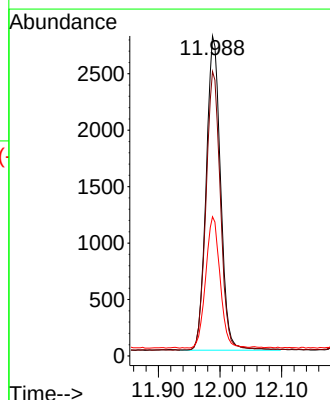
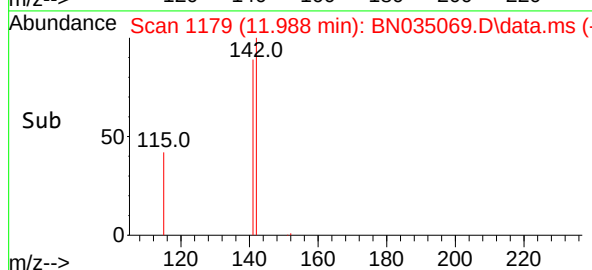
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

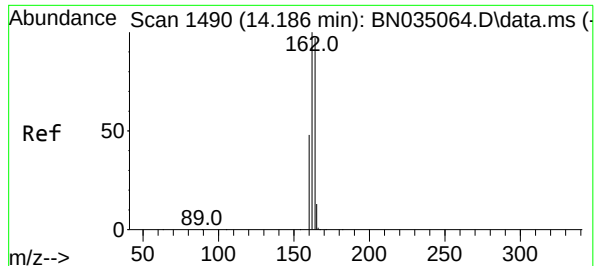


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



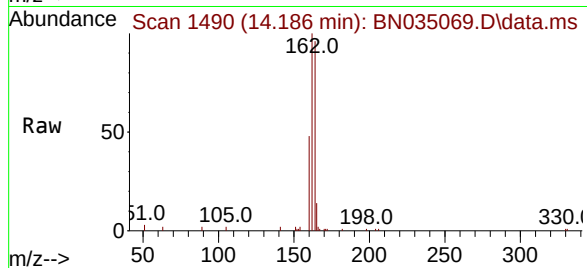
Tgt Ion:142 Resp: 4513
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 43.5 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

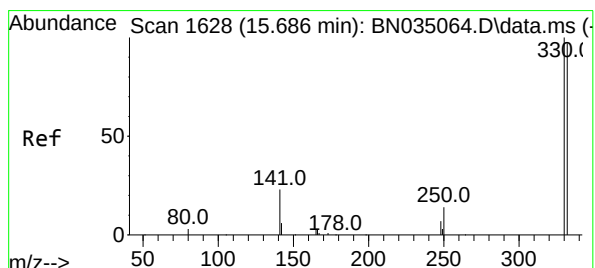
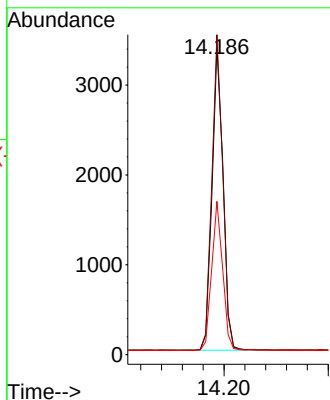
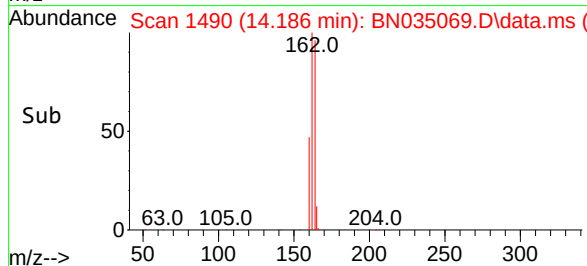
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



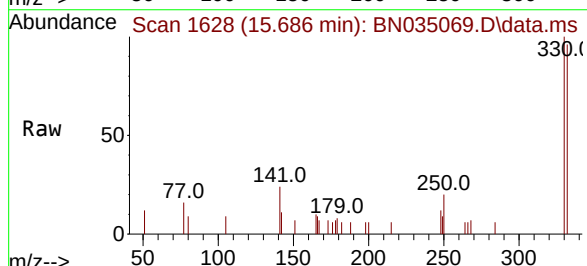
Tgt Ion:164 Resp: 496
Ion Ratio Lower Upper
164 100
162 104.1 82.2 123.2
160 49.8 40.2 60.4

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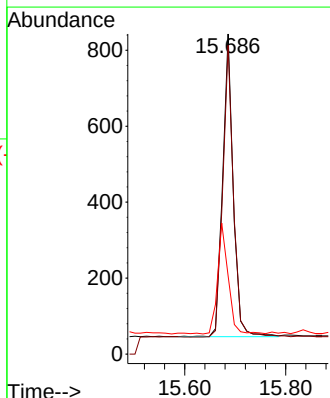
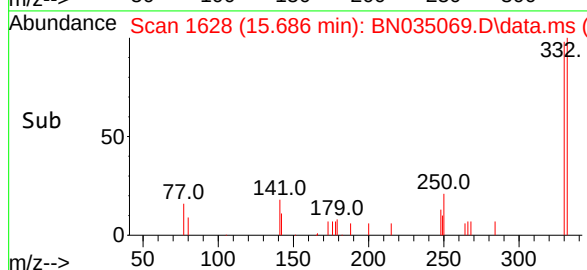
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

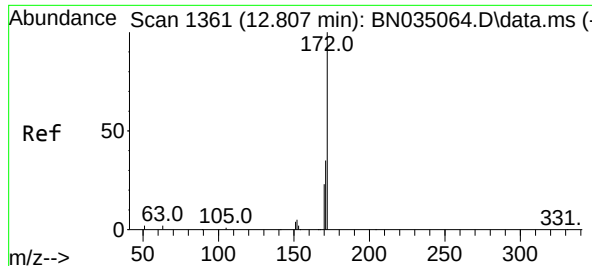


#14
2,4,6-Tribromophenol
Concen: 0.322 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



Tgt Ion:330 Resp: 1154
Ion Ratio Lower Upper
330 100
332 97.3 76.9 115.3
141 36.7 29.6 44.4





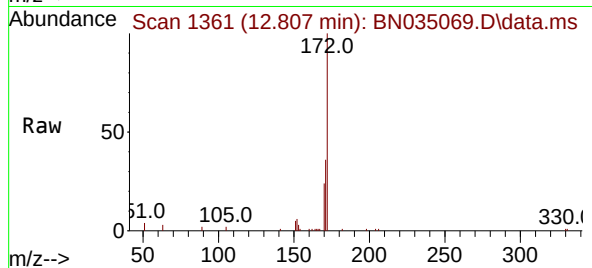
#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

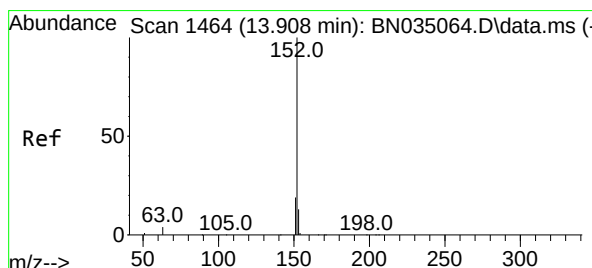
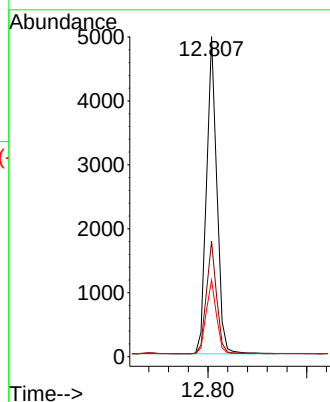
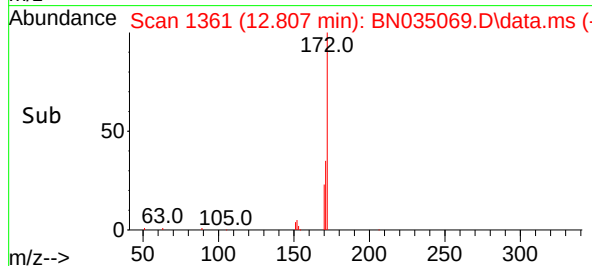


Tgt Ion:172 Resp: 7209
Ion Ratio Lower Upper
172 100
171 36.1 28.2 42.4
170 23.9 19.0 28.6

Manual Integrations
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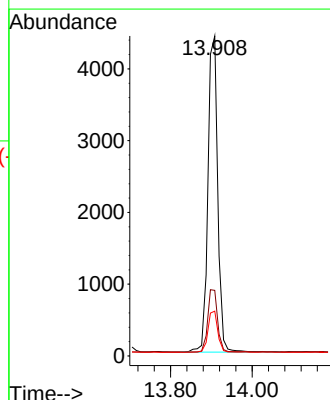
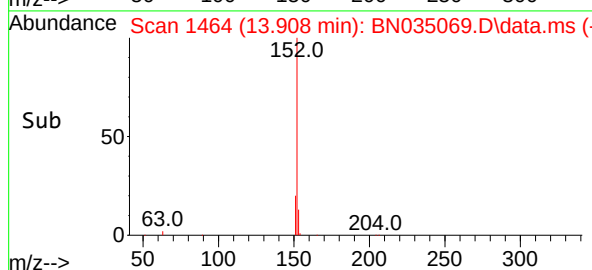
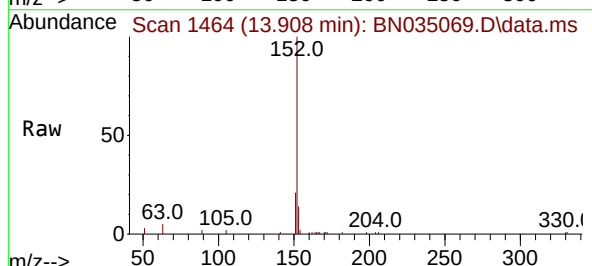
Reviewed By :Yogesh Patel 11/14/2024

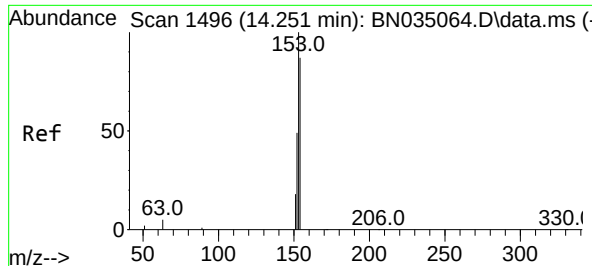
Supervised By :mohammad ahmed 11/14/2024



#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

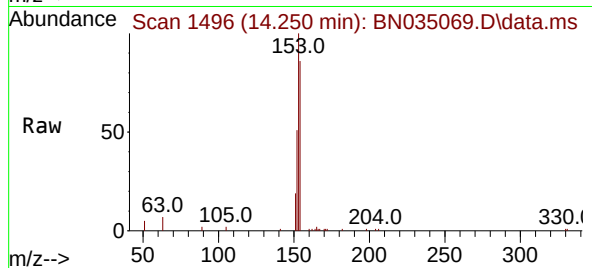
Tgt Ion:152 Resp: 7387
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 13.0 10.2 15.4





#17
Acenaphthene
Concen: 0.359 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

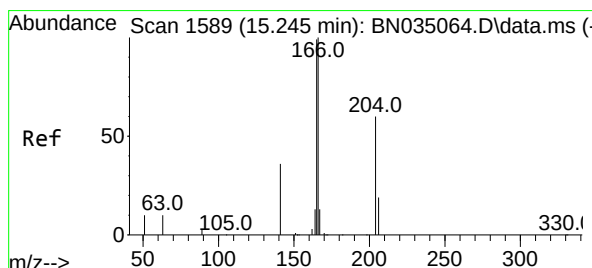
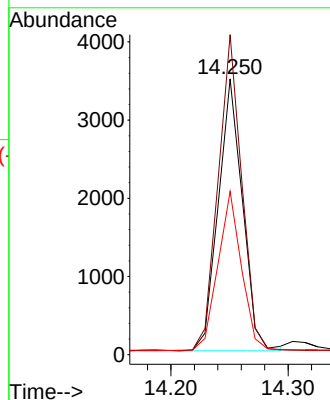
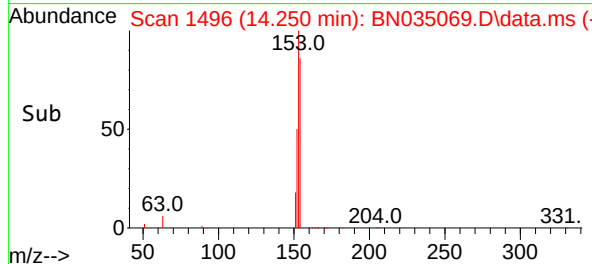
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:154 Resp: 499
Ion Ratio Lower Upper
154 100
153 113.2 91.6 137.4
152 57.7 45.8 68.6

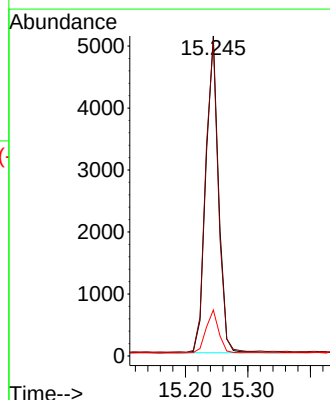
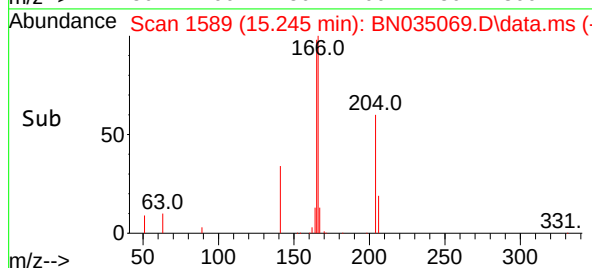
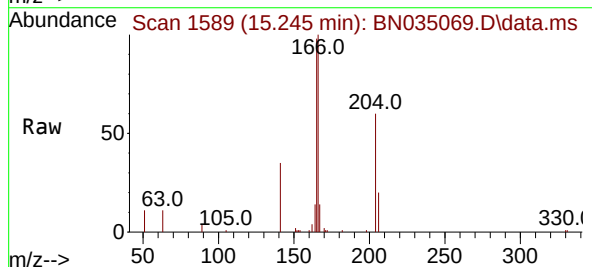
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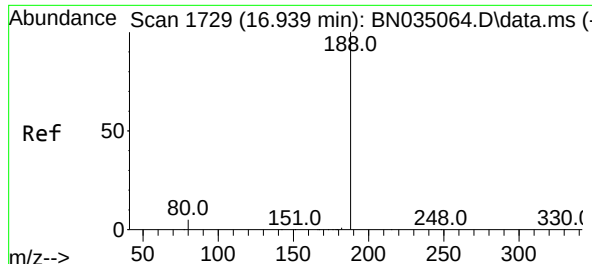
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 0.352 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:166 Resp: 7206
Ion Ratio Lower Upper
166 100
165 99.0 79.1 118.7
167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

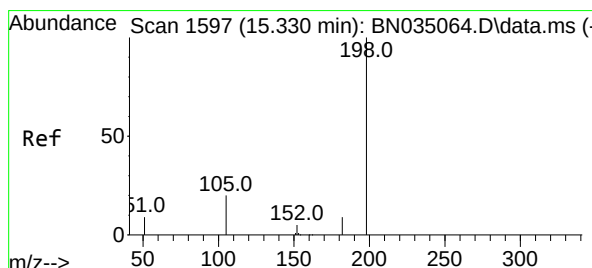
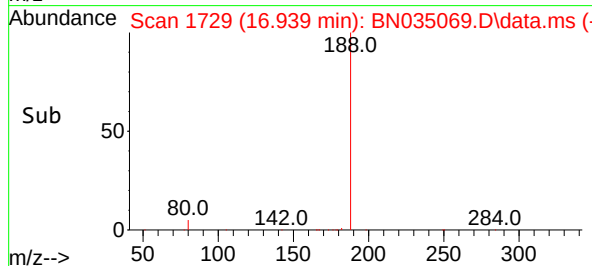
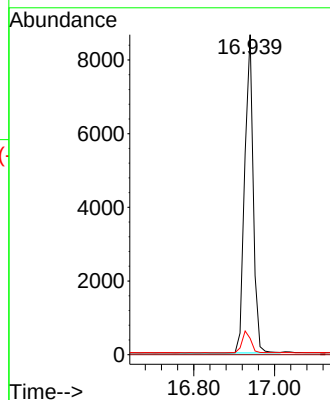
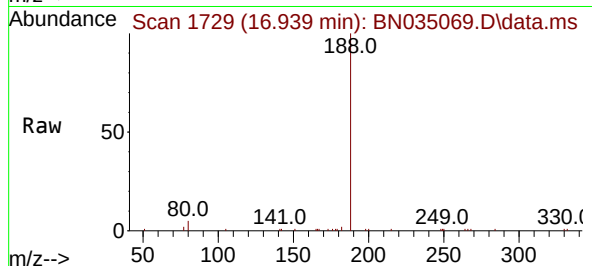
ClientSampleId :

ICVBN111324

Tgt Ion:188	Resp:	1268
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	5.1	4.3

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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.330 ng m

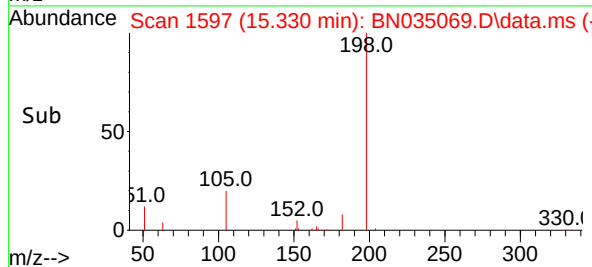
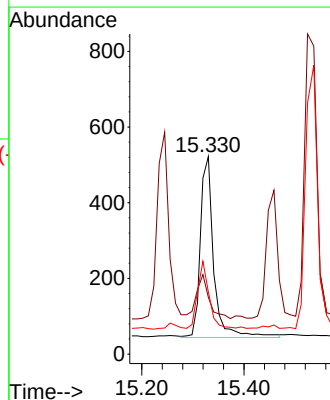
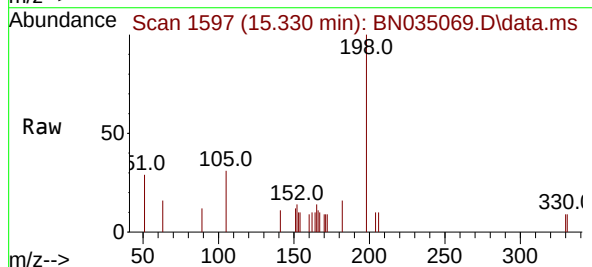
RT: 15.330 min Scan# 1597

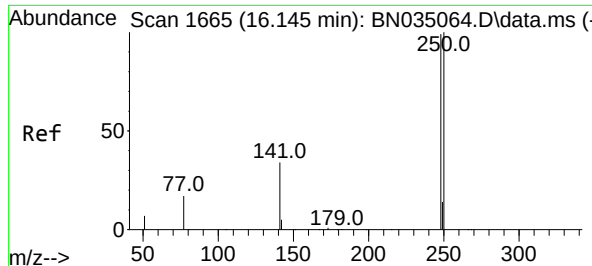
Delta R.T. 0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:198	Resp:	870
Ion Ratio	Lower	Upper
198	100	
51	28.7	29.9
105	31.4	23.7





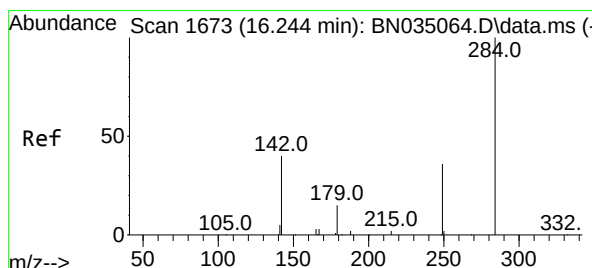
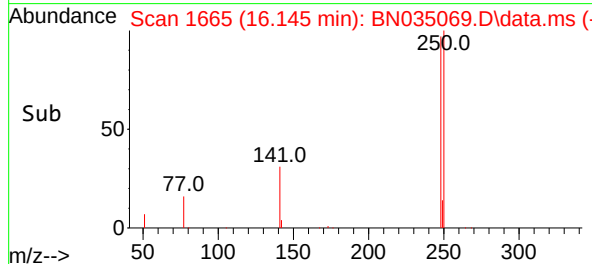
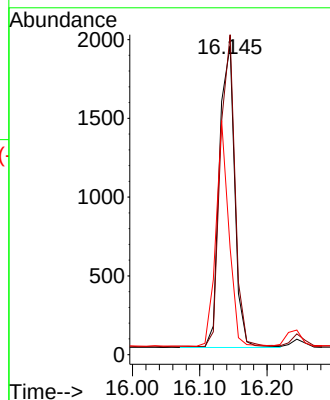
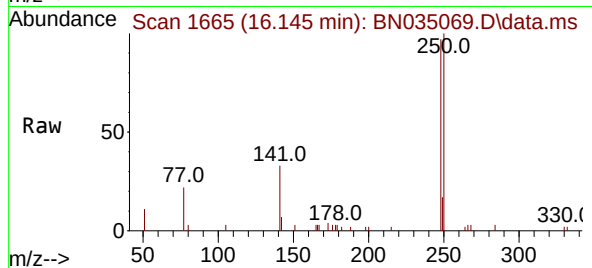
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.6	81.2	121.8
141	34.5	29.1	43.7

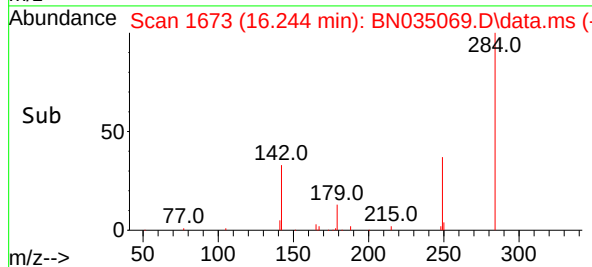
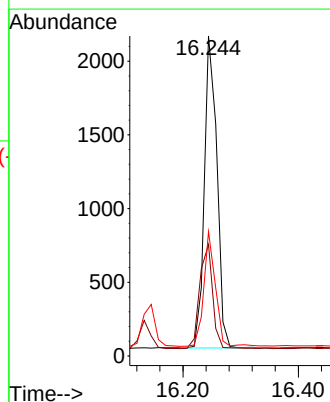
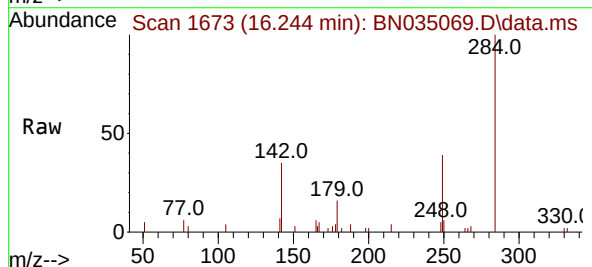
Manual Integrations
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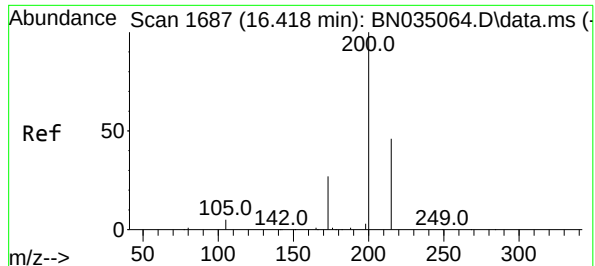
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#22
Hexachlorobenzene
Concen: 0.379 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	33.7	26.2	39.2





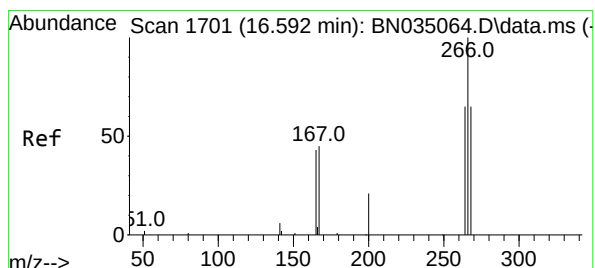
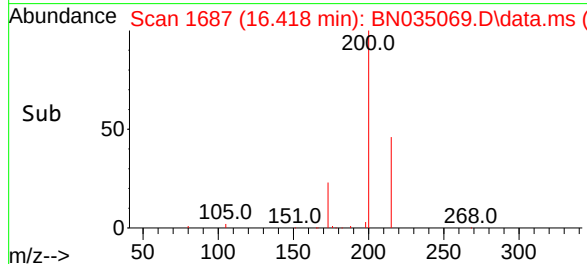
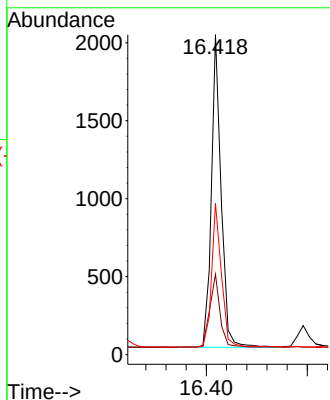
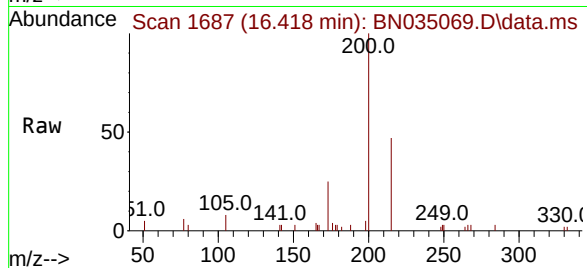
#23
Atrazine
Concen: 0.370 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion:200 Resp: 268
Ion Ratio Lower Upper
200 100
173 25.1 22.6 33.8
215 47.3 37.8 56.6

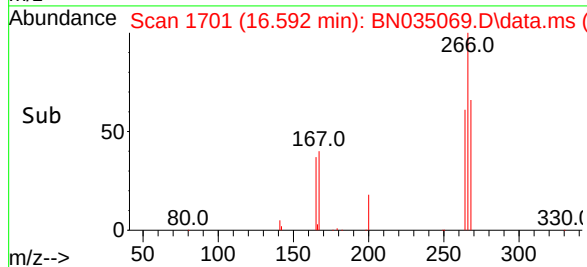
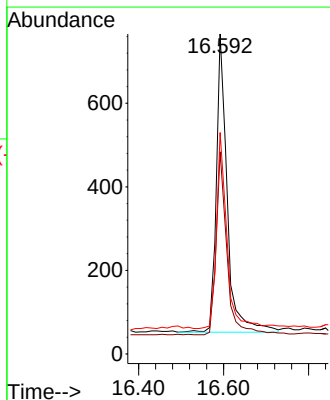
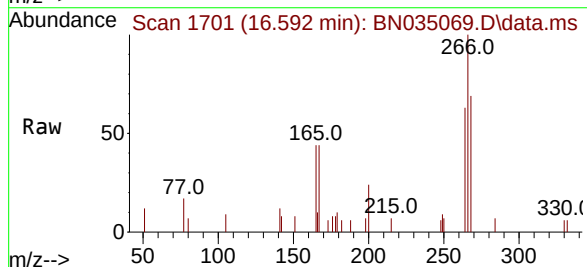
Manual Integrations
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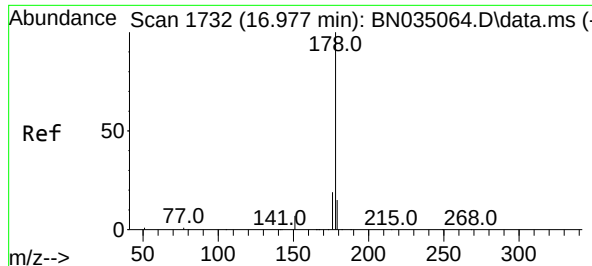
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#24
Pentachlorophenol
Concen: 0.324 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:266 Resp: 1269
Ion Ratio Lower Upper
266 100
264 60.5 49.4 74.0
268 63.4 52.6 79.0





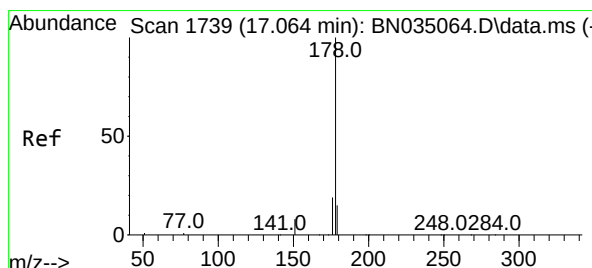
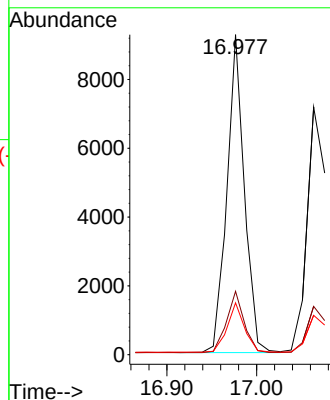
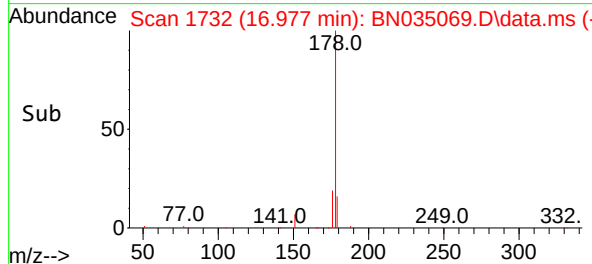
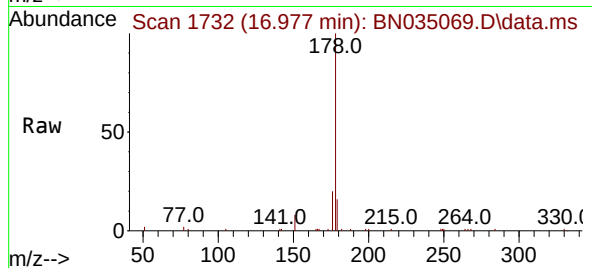
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.6	12.6	18.8

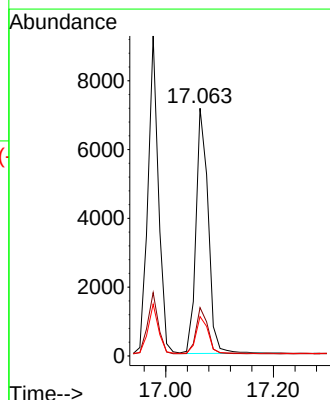
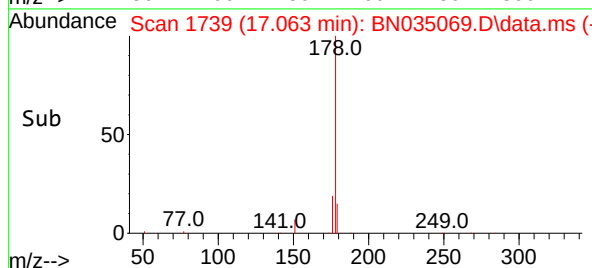
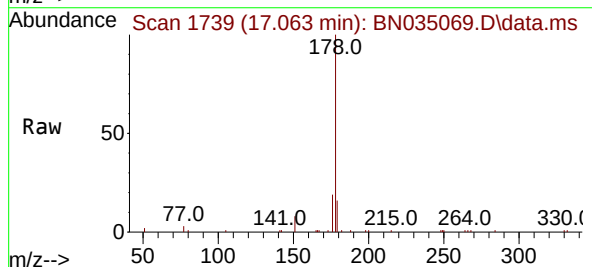
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APPROVED

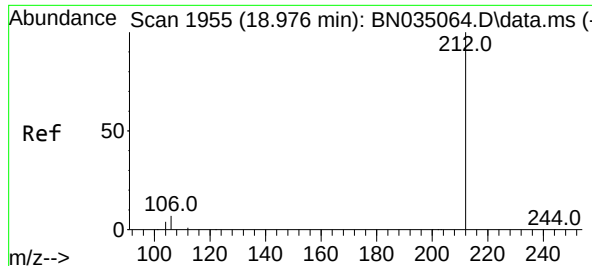
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 0.366 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.2	12.2	18.2





#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

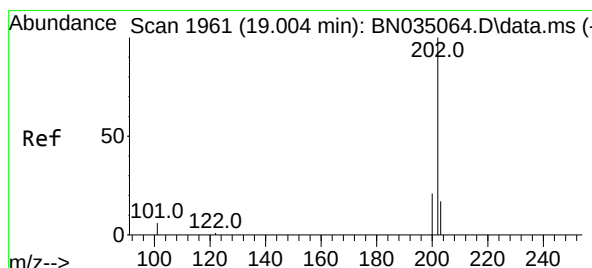
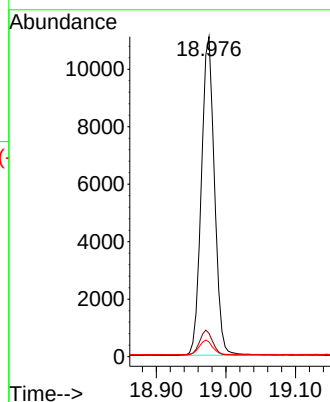
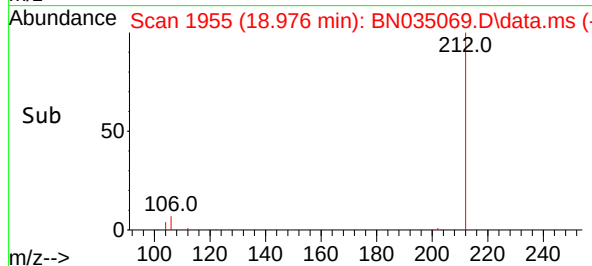
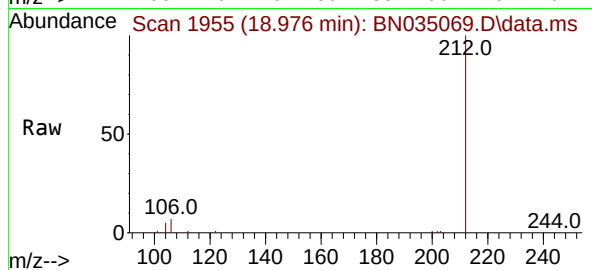
Tgt Ion:	212	Resp:	14530
Ion Ratio	Lower	Upper	
212	100		
106	7.8	6.0	9.0
104	4.5	3.5	5.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#28

Fluoranthene

Concen: 0.372 ng

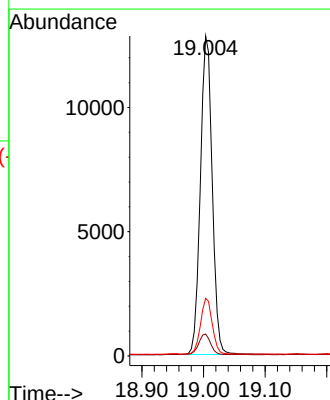
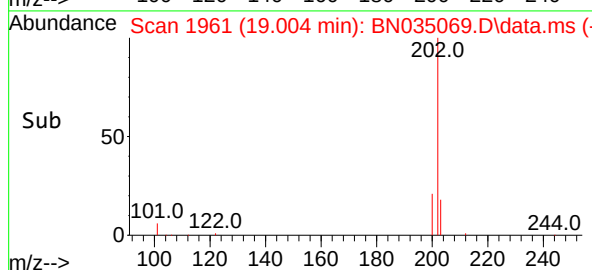
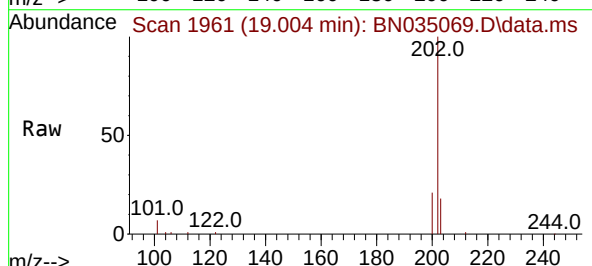
RT: 19.004 min Scan# 1961

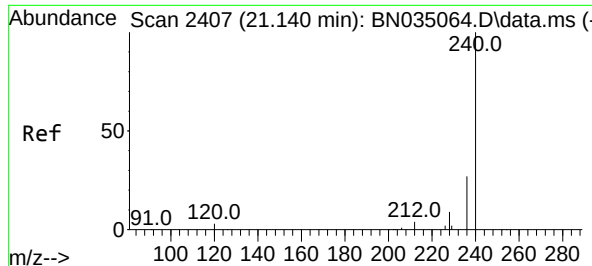
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	202	Resp:	17084
Ion Ratio	Lower	Upper	
202	100		
101	6.6	5.2	7.8
203	17.3	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

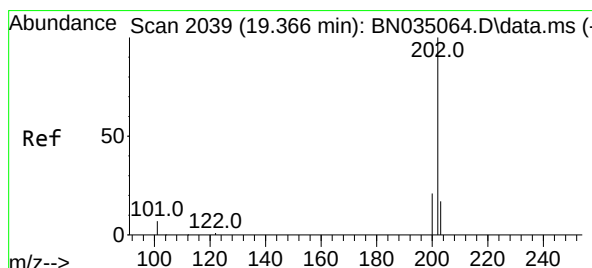
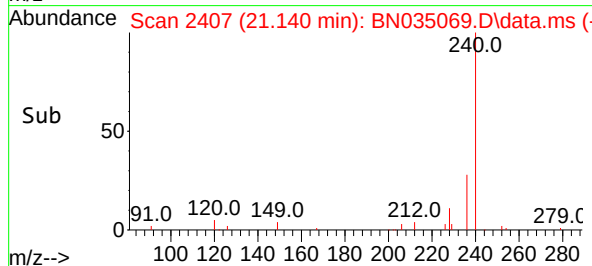
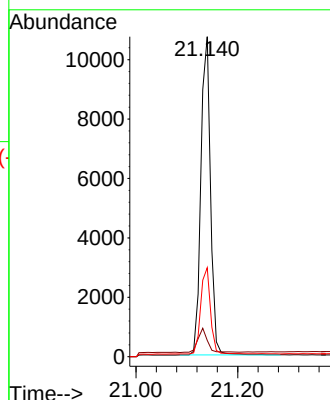
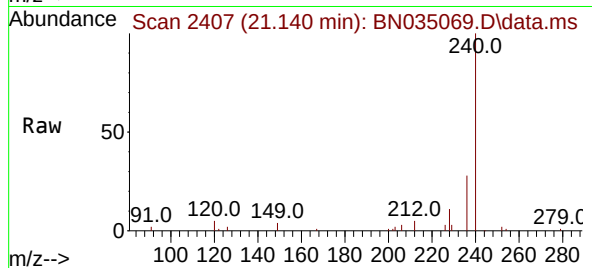
ICVBN111324

Tgt Ion:240	Resp:	1405
Ion Ratio	Lower	Upper
240	100	
120	5.1	3.8 5.6
236	27.8	22.2 33.2

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 0.376 ng

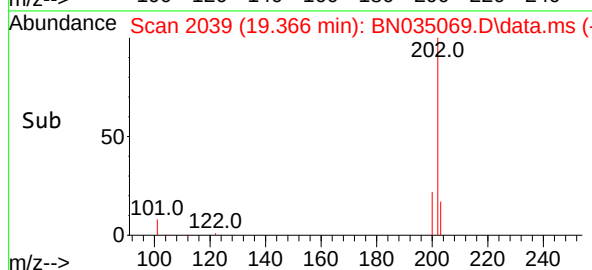
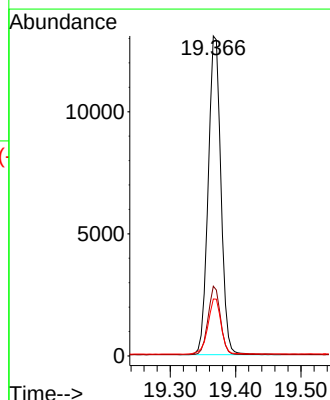
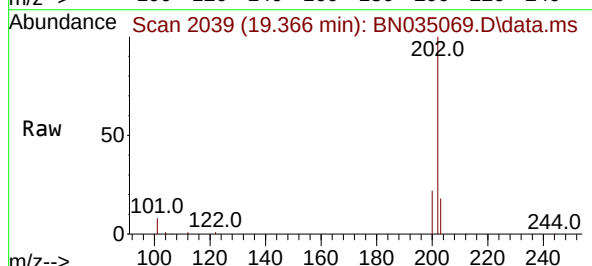
RT: 19.366 min Scan# 2039

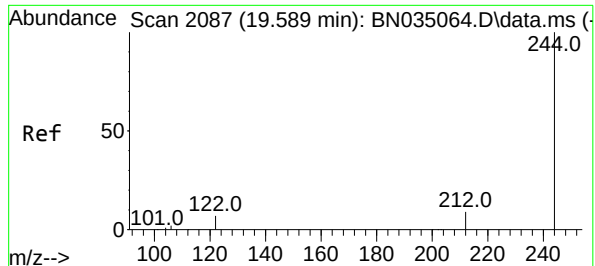
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:202	Resp:	17580
Ion Ratio	Lower	Upper
202	100	
200	20.9	16.7 25.1
203	18.1	14.2 21.4





#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

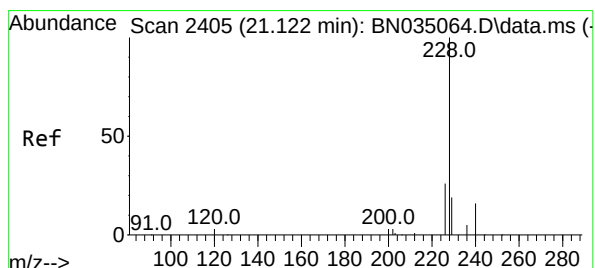
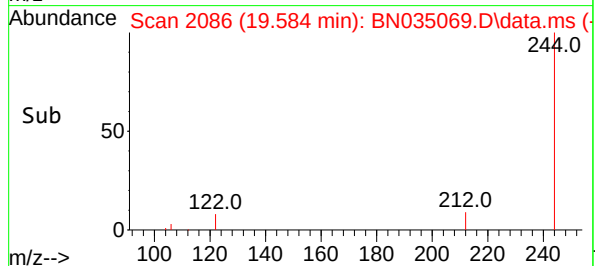
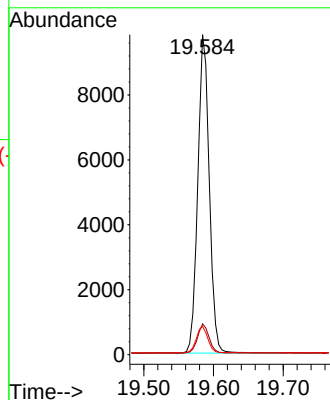
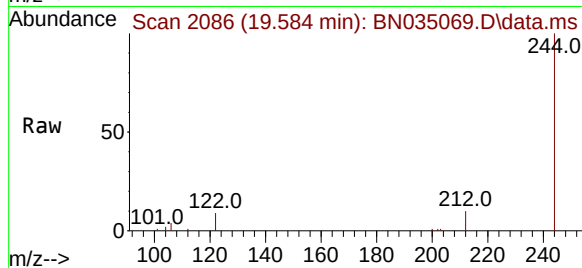
ClientSampleId :

ICVBN111324

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	8.9	6.1	9.1

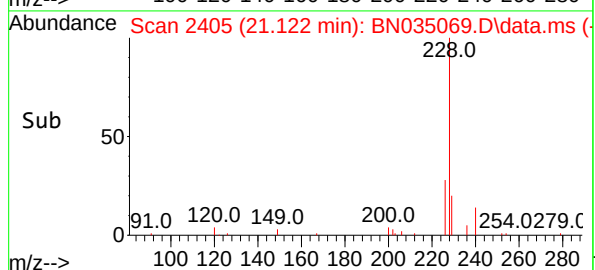
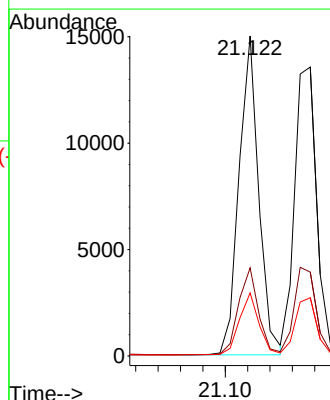
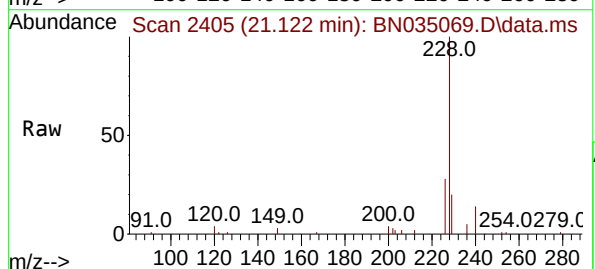
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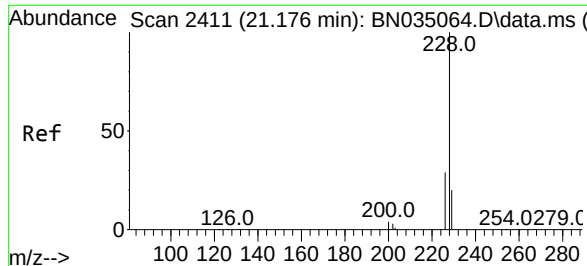
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.4	32.0
229	19.7	15.7	23.5





#33

Chrysene

Concen: 0.386 ng

RT: 21.176 min Scan# 2411

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

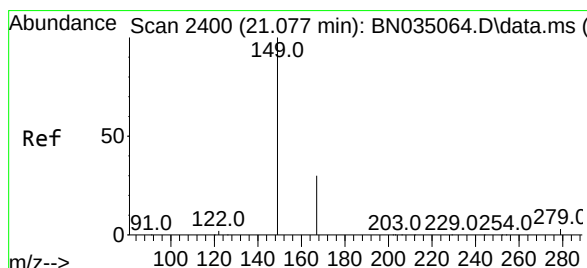
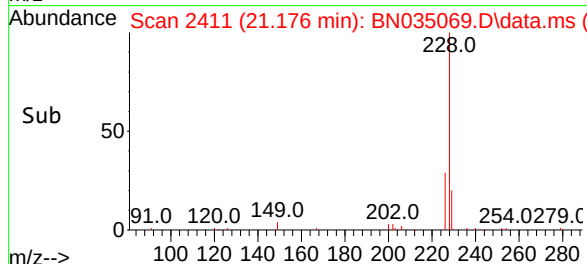
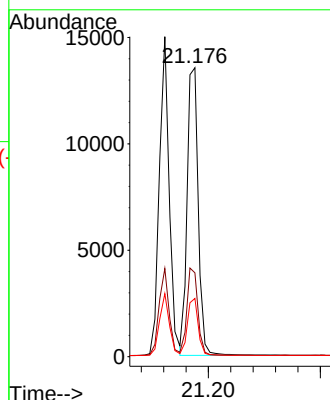
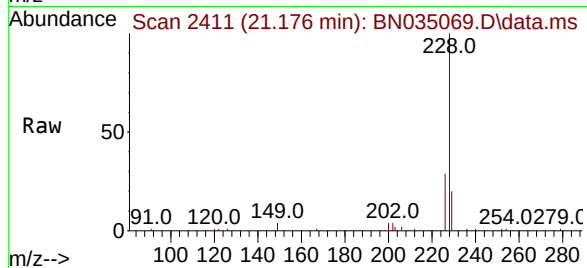
ClientSampleId :

ICVBN111324

Tgt Ion:	228	Resp:	1869
Ion Ratio	Lower	Upper	
228	100		
226	29.0	23.7	35.5
229	20.2	16.2	24.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.338 ng

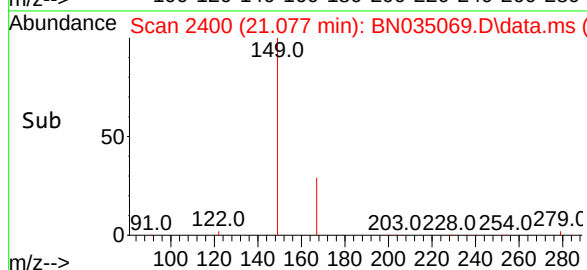
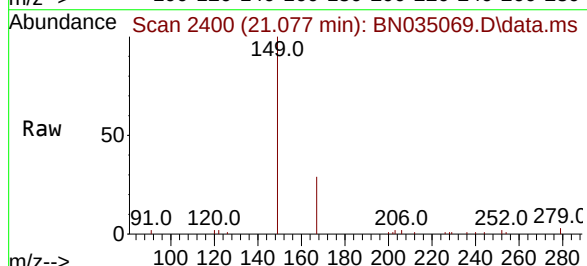
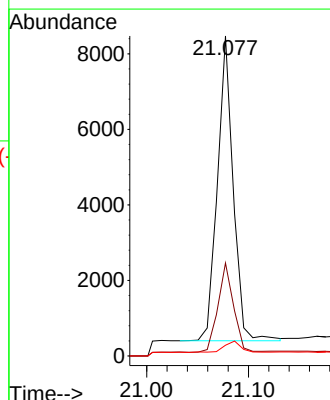
RT: 21.077 min Scan# 2400

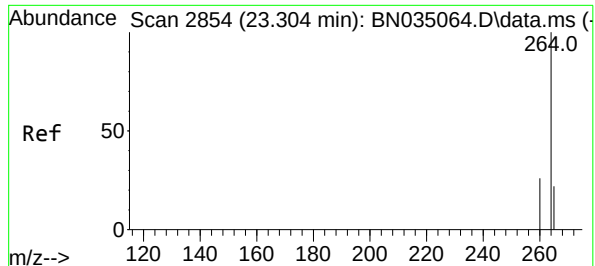
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	149	Resp:	8691
Ion Ratio	Lower	Upper	
149	100		
167	29.0	23.2	34.8
279	3.9	3.2	4.8





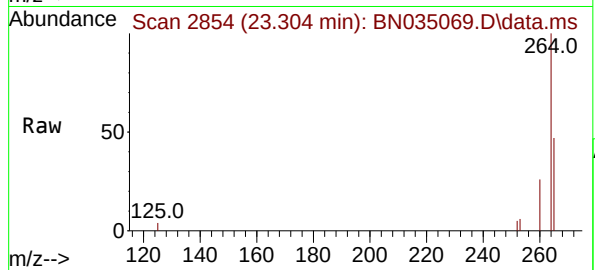
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.304 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

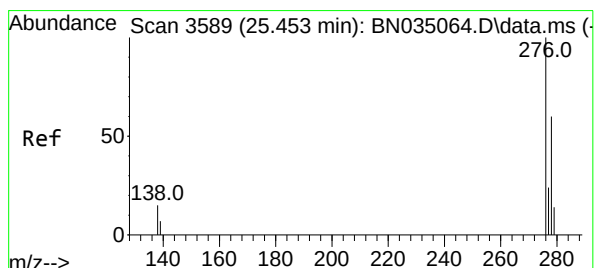
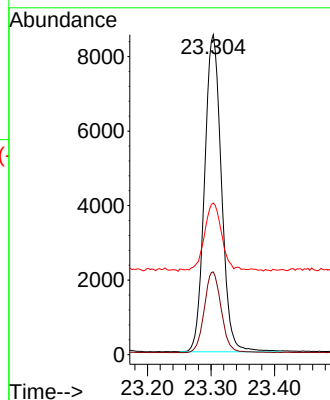
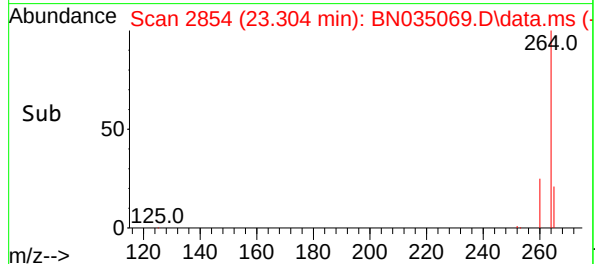
ICVBN111324



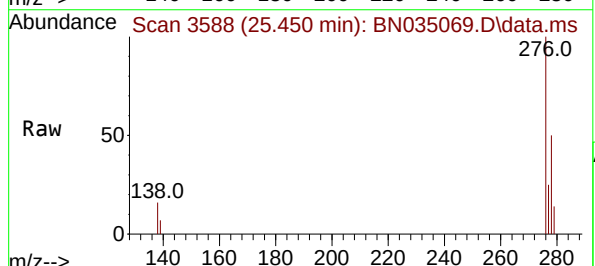
Tgt Ion:264 Resp: 15724
Ion Ratio Lower Upper
264 100
260 25.8 20.9 31.3
265 47.4 35.4 53.2

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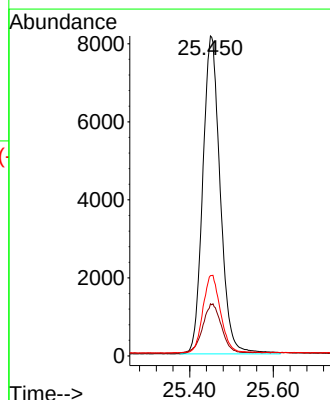
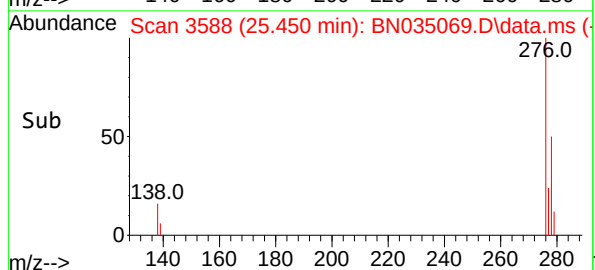
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

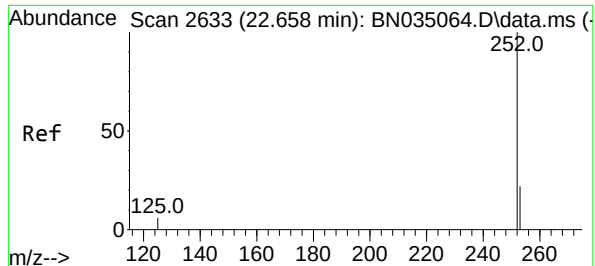


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.375 ng
RT: 25.450 min Scan# 3588
Delta R.T. -0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



Tgt Ion:276 Resp: 23546
Ion Ratio Lower Upper
276 100
138 16.9 13.0 19.4
277 24.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.379 ng

RT: 22.660 min Scan# 2634

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

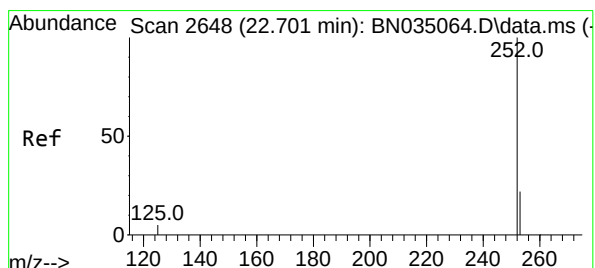
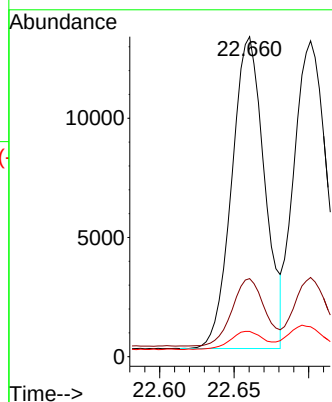
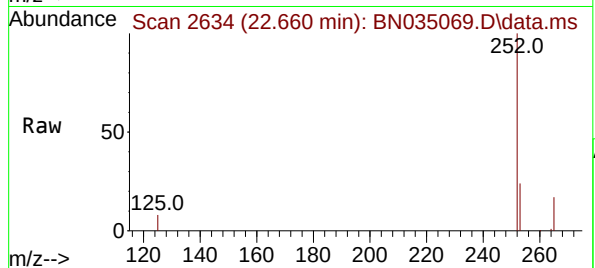
Tgt Ion:	252	Resp:	20039
Ion Ratio	Lower	Upper	
252	100		
253	24.4	19.3	28.9
125	7.9	6.2	9.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 0.380 ng

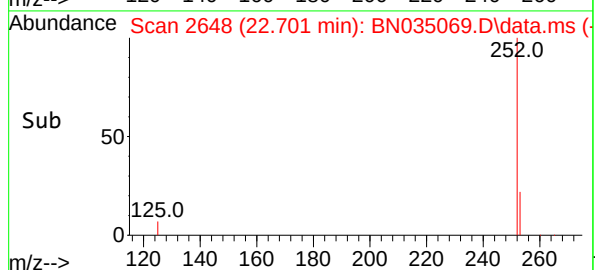
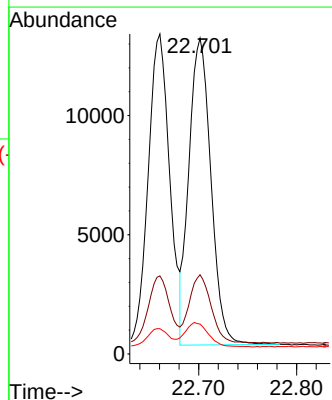
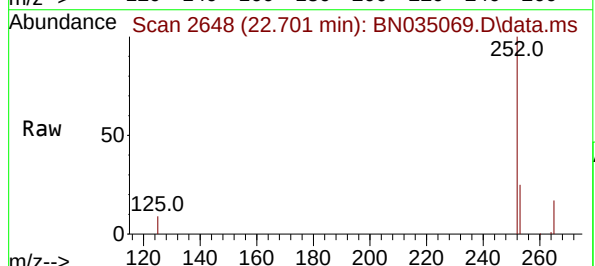
RT: 22.701 min Scan# 2648

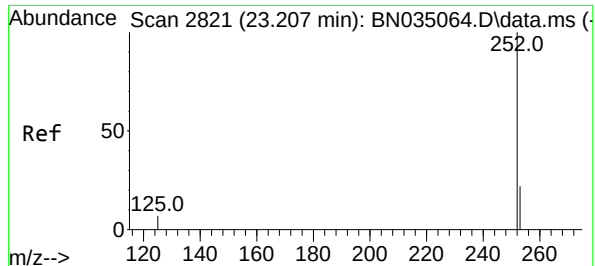
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	252	Resp:	20114
Ion Ratio	Lower	Upper	
252	100		
253	25.1	19.5	29.3
125	9.5	6.5	9.7





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.210 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

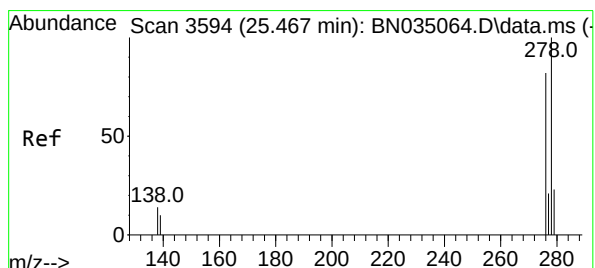
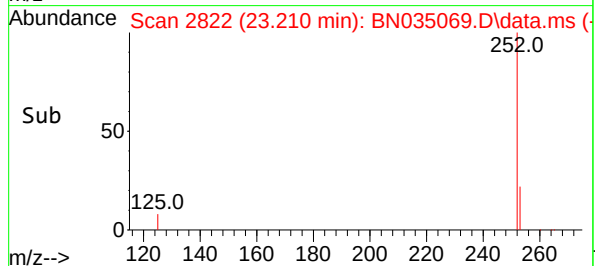
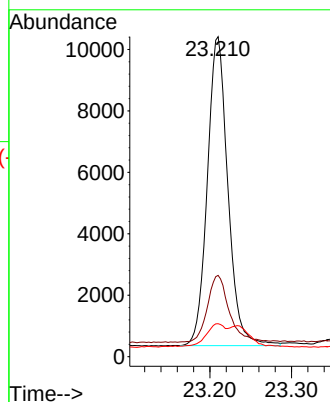
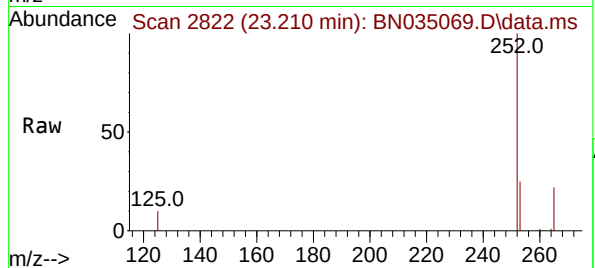
ClientSampleId :

ICVBN111324

Tgt Ion:	252	Resp:	17590
Ion Ratio	Lower	Upper	
252	100		
253	25.4	20.1	30.1
125	10.3	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

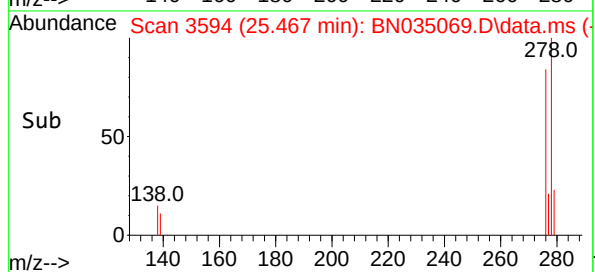
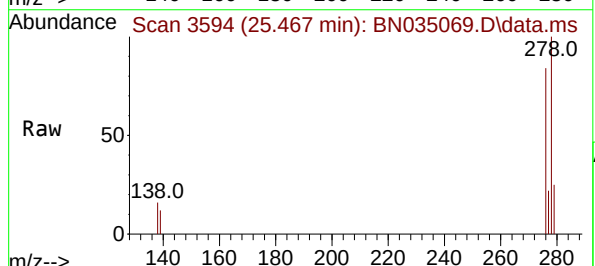
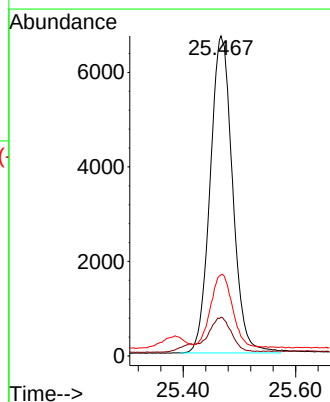
RT: 25.467 min Scan# 3594

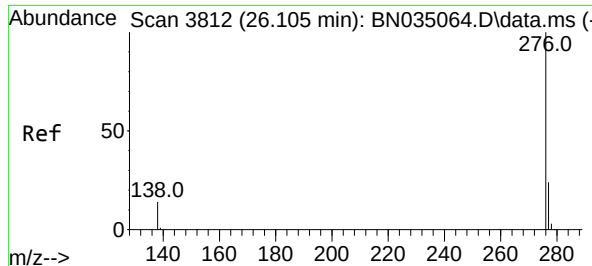
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	278	Resp:	18547
Ion Ratio	Lower	Upper	
278	100		
139	12.1	9.3	13.9
279	25.4	19.7	29.5





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 26.104 min Scan# 3812

Delta R.T. -0.000 min

Lab File: BN035069.D

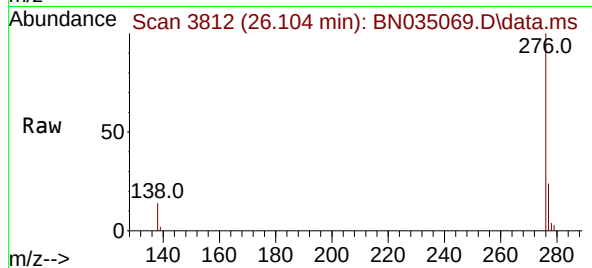
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324



Tgt Ion:276 Resp: 19649

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

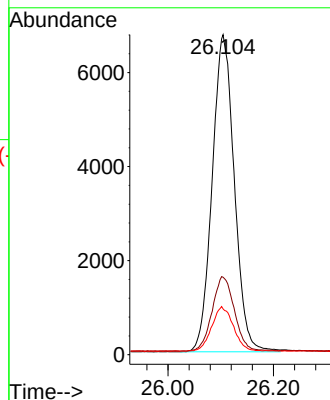
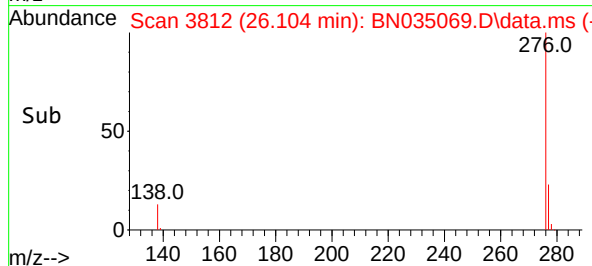
138 14.3 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 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	89	0.00
2	1,4-Dioxane	0.363	0.337	7.2	90	0.00
3	n-Nitrosodimethylamine	0.339	0.311	8.3	85	0.00
4 S	2-Fluorophenol	1.015	0.933	8.1	88	0.00
5 S	Phenol-d6	1.273	1.143	10.2	88	0.00
6	bis(2-Chloroethyl)ether	0.956	0.884	7.5	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8 S	Nitrobenzene-d5	0.348	0.311	10.6	90	0.00
9	Naphthalene	1.044	0.957	8.3	91	0.00
10	Hexachlorobutadiene	0.306	0.285	6.9	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.654	8.3	91	0.00
12	2-Methylnaphthalene	0.770	0.709	7.9	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
14 S	2,4,6-Tribromophenol	0.289	0.232	19.7	89	0.00
15 S	2-Fluorobiphenyl	1.624	1.451	10.7	91	0.00
16	Acenaphthylene	1.709	1.487	13.0	92	0.00
17	Acenaphthene	1.120	1.006	10.2	92	0.00
18	Fluorene	1.648	1.451	12.0	91	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.069	16.9	89	0.00
21	4-Bromophenyl-phenylether	0.255	0.237	7.1	90	0.00
22	Hexachlorobenzene	0.264	0.250	5.3	93	0.00
23	Atrazine	0.229	0.211	7.9	92	0.00
24	Pentachlorophenol	0.124	0.100	19.4	91	0.00
25	Phenanthrene	1.053	0.987	6.3	92	0.00
26	Anthracene	0.967	0.885	8.5	90	0.00
27 SURR	Fluoranthene-d10	1.225	1.146	6.4	92	0.00
28	Fluoranthene	1.448	1.347	7.0	91	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	94	0.00
30	Pyrene	1.332	1.251	6.1	91	0.00
31 S	Terphenyl-d14	0.839	0.800	4.6	93	0.00
32	Benzo(a)anthracene	1.393	1.310	6.0	93	0.00
33	Chrysene	1.380	1.330	3.6	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.618	15.5	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	92	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.497	6.2	91	0.00
37	Benzo(b)fluoranthene	1.346	1.274	5.3	92	0.00
38	Benzo(k)fluoranthene	1.347	1.279	5.0	92	0.00
39 C	Benzo(a)pyrene	1.184	1.119	5.5	92	0.00
40	Dibenzo(a,h)anthracene	1.264	1.180	6.6	90	0.00
41	Benzo(g,h,i)perylene	1.345	1.250	7.1	89	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 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	89	0.00
2	1,4-Dioxane	0.400	0.371	7.3	90	0.00
3	n-Nitrosodimethylamine	0.400	0.368	8.0	85	0.00
4 S	2-Fluorophenol	0.400	0.368	8.0	88	0.00
5 S	Phenol-d6	0.400	0.359	10.3	88	0.00
6	bis(2-Chloroethyl)ether	0.400	0.370	7.5	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8 S	Nitrobenzene-d5	0.400	0.358	10.5	90	0.00
9	Naphthalene	0.400	0.366	8.5	91	0.00
10	Hexachlorobutadiene	0.400	0.373	6.8	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.367	8.3	91	0.00
12	2-Methylnaphthalene	0.400	0.368	8.0	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	92	0.00
14 S	2,4,6-Tribromophenol	0.400	0.322	19.5	89	0.00
15 S	2-Fluorobiphenyl	0.400	0.357	10.8	91	0.00
16	Acenaphthylene	0.400	0.348	13.0	92	0.00
17	Acenaphthene	0.400	0.359	10.3	92	0.00
18	Fluorene	0.400	0.352	12.0	91	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	94	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.330	17.5	89	0.00
21	4-Bromophenyl-phenylether	0.400	0.371	7.3	90	0.00
22	Hexachlorobenzene	0.400	0.379	5.3	93	0.00
23	Atrazine	0.400	0.370	7.5	92	0.00
24	Pentachlorophenol	0.400	0.324	19.0	91	0.00
25	Phenanthrene	0.400	0.375	6.3	92	0.00
26	Anthracene	0.400	0.366	8.5	90	0.00
27 SURR	Fluoranthene-d10	0.400	0.374	6.5	92	0.00
28	Fluoranthene	0.400	0.372	7.0	91	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	94	0.00
30	Pyrene	0.400	0.376	6.0	91	0.00
31 S	Terphenyl-d14	0.400	0.381	4.8	93	0.00
32	Benzo(a)anthracene	0.400	0.376	6.0	93	0.00
33	Chrysene	0.400	0.386	3.5	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.338	15.5	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	92	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	91	0.00
37	Benzo(b)fluoranthene	0.400	0.379	5.3	92	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	92	0.00
39 C	Benzo(a)pyrene	0.400	0.378	5.5	92	0.00
40	Dibenzo(a,h)anthracene	0.400	0.373	6.8	90	0.00
41	Benzo(g,h,i)perylene	0.400	0.372	7.0	89	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.: P4866 SAS No.: P4866 SDG No.: P4866

Instrument ID: BNA_N Calibration Date/Time: 11/21/2024 13:22

Lab File ID: BN035219.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:40 16:15

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.713	0.604		-15.3	20.0
Fluoranthene-d10	1.225	0.956		-22.0	20.0
2-Fluorophenol	1.015	1.174		15.7	20.0
Phenol-d6	1.273	1.472		15.6	20.0
Nitrobenzene-d5	0.348	0.208		-40.2	20.0
2-Fluorobiphenyl	1.624	0.299		-81.6	20.0
2,4,6-Tribromophenol	0.289	0.331		14.5	20.0
Terphenyl-d14	0.839	3.629		332.5	20.0
1,4-Dioxane	0.363	0.403		11.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035219.D
 Acq On : 21 Nov 2024 13:22
 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

Quant Time: Nov 21 14:33:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							11/22/2024 Supervised By :mohammad Immed
1) 1,4-Dichlorobenzene-d4	7.329	152	3553	0.400	ng	0.00	
7) Naphthalene-d8	10.073	136	8594	0.400	ng	# 0.00	
13) Acenaphthene-d10	13.987	164	5839	0.400	ng	0.00	
19) Phenanthrene-d10	16.746	188	13132	0.400	ng	# 0.00	
29) Chrysene-d12	21.008	240	2179	0.400	ng	# 0.00	
35) Perylene-d12	23.104	264	7936	0.400	ng	# 0.00	11/22/2024
System Monitoring Compounds							
4) 2-Fluorophenol	4.982	112	4170	0.462	ng	0.00	
5) Phenol-d6	6.528	99	5231	0.463	ng	0.00	
8) Nitrobenzene-d5	8.461	82	1784m	0.238	ng	0.00	
11) 2-Methylnaphthalene-d10	11.678	152	5187	0.339	ng	0.00	
14) 2,4,6-Tribromophenol	15.494	330	1931	0.458	ng	0.00	
15) 2-Fluorobiphenyl	12.608	172	1744	0.074	ng	0.00	
27) Fluoranthene-d10	18.806	212	12553	0.312	ng	0.00	
31) Terphenyl-d14	19.438	244	7908	1.730	ng	0.00	
Target Compounds							Qvalue
2) 1,4-Dioxane	3.011	88	1431	0.443	ng	# 85	
3) n-Nitrosodimethylamine	3.307	42	1242	0.413	ng	# 97	
6) bis(2-Chloroethyl)ether	6.773	93	3817	0.450	ng	95	
9) Naphthalene	10.127	128	8813	0.393	ng	99	
10) Hexachlorobutadiene	10.426	225	2134	0.324	ng	# 100	
12) 2-Methylnaphthalene	11.754	142	6233	0.377	ng	97	
16) Acenaphthylene	13.698	152	10404	0.417	ng	99	
17) Acenaphthene	14.051	154	6430	0.393	ng	99	
18) Fluorene	15.045	166	8973	0.373	ng	99	
20) 4,6-Dinitro-2-methylph...	15.142	198	427	0.156	ng	# 31	
21) 4-Bromophenyl-phenylether	15.952	248	3185	0.381	ng	# 73	
22) Hexachlorobenzene	16.064	284	3749	0.432	ng	96	
23) Atrazine	16.250	200	1902	0.253	ng	# 94	
24) Pentachlorophenol	16.411	266	2236	0.551	ng	98	
25) Phenanthrene	16.796	178	13999	0.405	ng	99	
26) Anthracene	16.883	178	13479	0.425	ng	99	
28) Fluoranthene	18.839	202	16410	0.345	ng	# 97	
30) Pyrene	19.206	202	16732	2.306	ng	100	
32) Benzo(a)anthracene	21.035	228	12666	1.669	ng	95	
33) Chrysene	21.035	228	12666	1.685	ng	98	
34) Bis(2-ethylhexyl)phtha...	21.026	149	1204	0.302	ng	# 93	
36) Indeno(1,2,3-cd)pyrene	25.157	276	12159	0.384	ng	# 90	
37) Benzo(b)fluoranthene	22.487	252	11451	0.429	ng	# 95	
38) Benzo(k)fluoranthene	22.528	252	11422	0.428	ng	# 95	
39) Benzo(a)pyrene	23.014	252	9865	0.420	ng	# 94	
40) Dibenzo(a,h)anthracene	25.177	278	9332	0.372	ng	# 89	
41) Benzo(g,h,i)perylene	25.776	276	10046	0.377	ng	# 89	

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035219.D
 Acq On : 21 Nov 2024 13:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

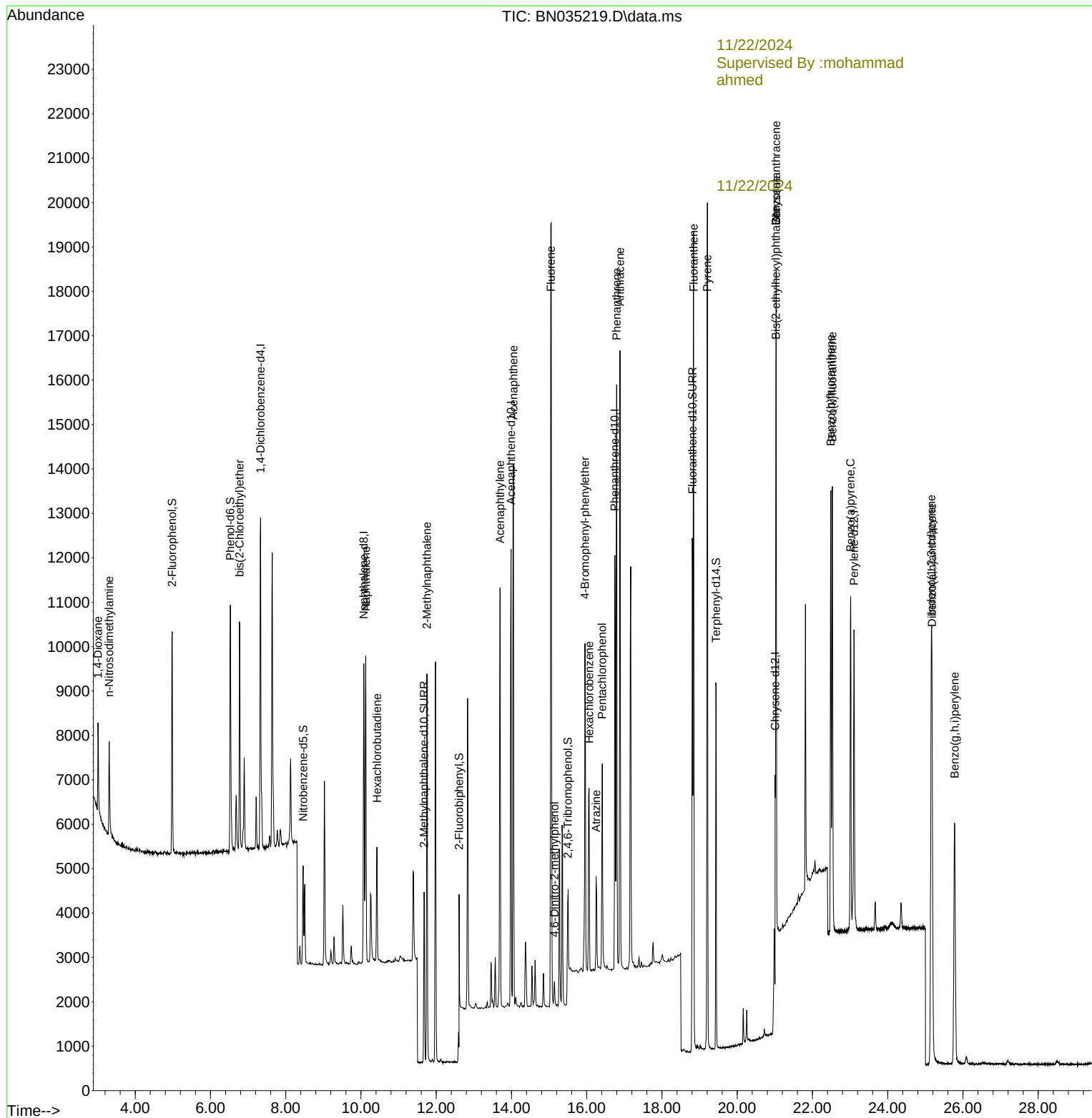
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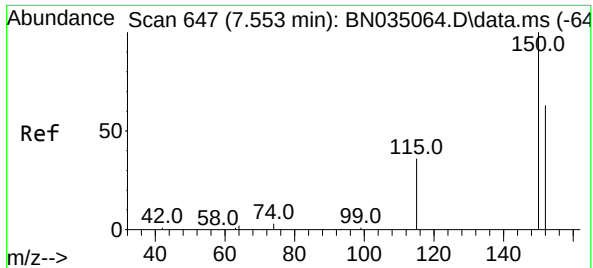
SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Yogesh
 Patel

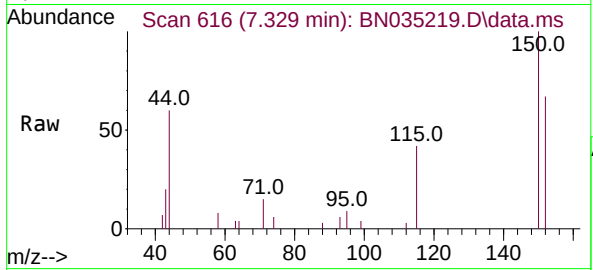
Quant Time: Nov 21 14:33:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

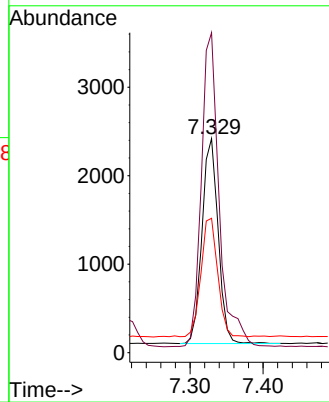
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 355
Ion Ratio Lower Upper
152 100
150 149.5 124.5 186.7
115 62.8 47.8 71.6

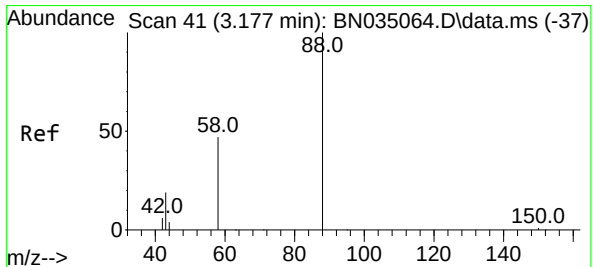
Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel



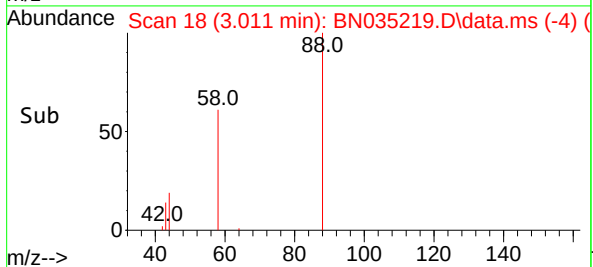
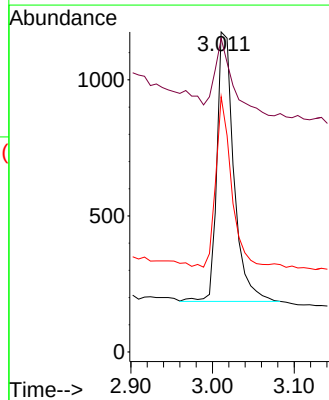
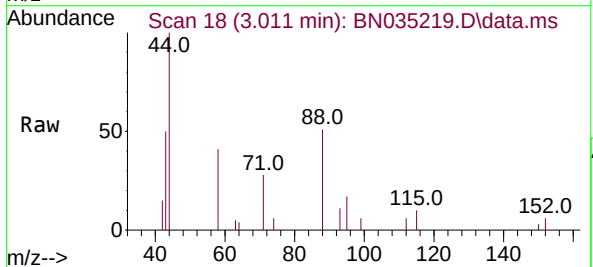
11/22/2024
Supervised By :mohammad
ahmed

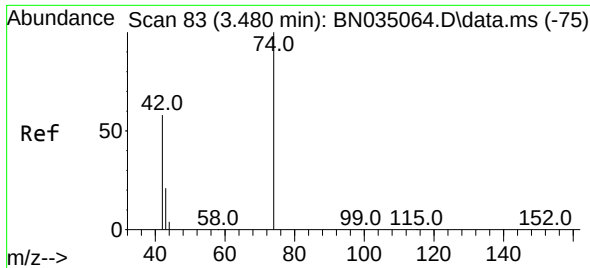
11/22/2024



#2
1,4-Dioxane
Concen: 0.443 ng
RT: 3.011 min Scan# 18
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

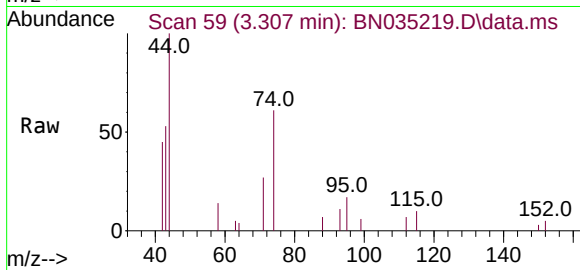
Tgt Ion: 88 Resp: 1431
Ion Ratio Lower Upper
88 100
43 30.7 16.9 25.3#
58 57.5 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.307 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

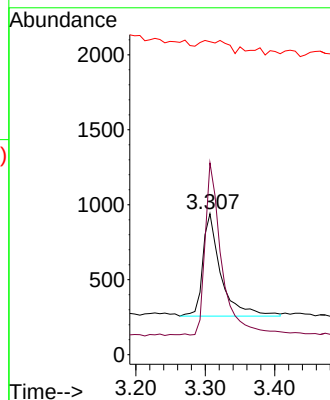
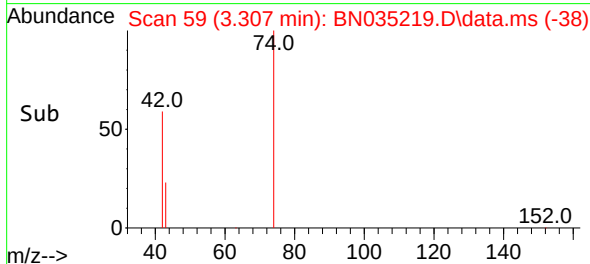
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 124
Ion Ratio Lower Upper
42 100
74 153.3 120.8 181.2
44 18.3 2.9 4.3

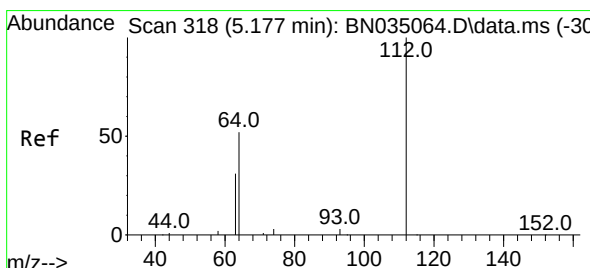
Manual Integrations
APPROVED

Reviewed By :Yogesh
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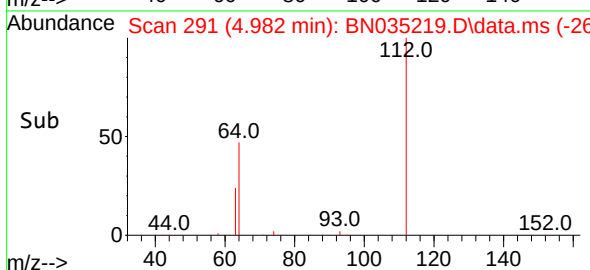
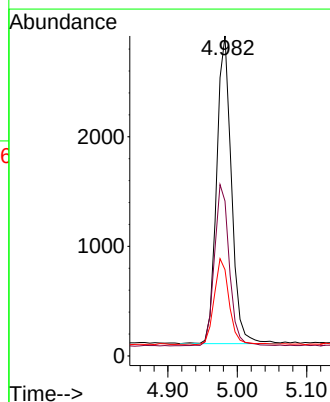
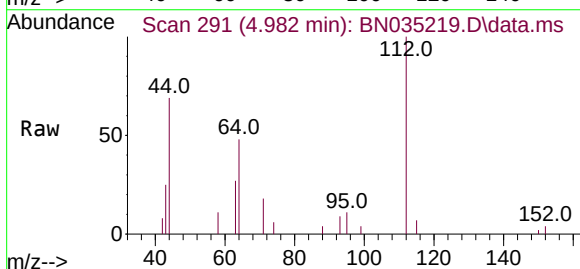
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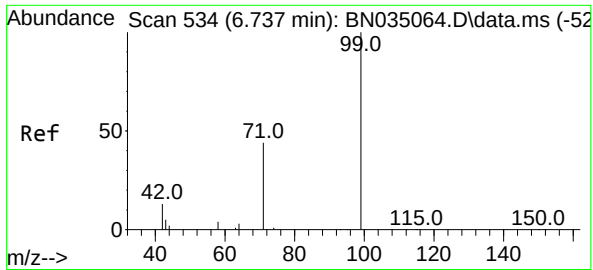
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#4
2-Fluorophenol
Concen: 0.462 ng
RT: 4.982 min Scan# 291
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:112 Resp: 4170
Ion Ratio Lower Upper
112 100
64 52.4 39.7 59.5
63 27.9 23.0 34.4





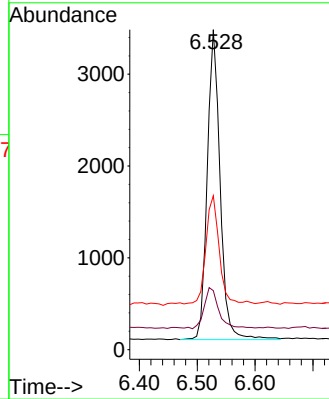
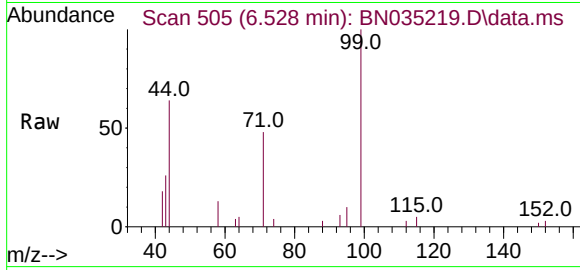
#5
Phenol-d6
Concen: 0.463 ng
RT: 6.528 min Scan# 505
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

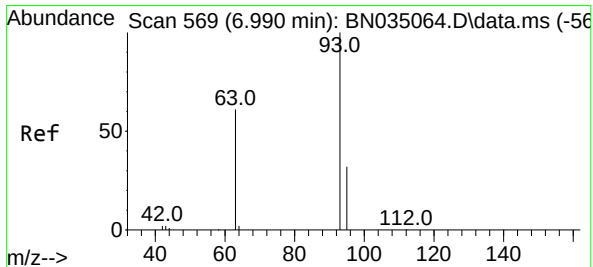
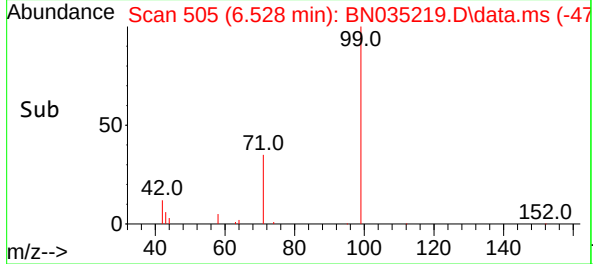
Tgt Ion: 99 Resp: 523
Ion Ratio Lower Upper
99 100
42 14.2 11.4 17.0
71 37.0 34.6 51.8

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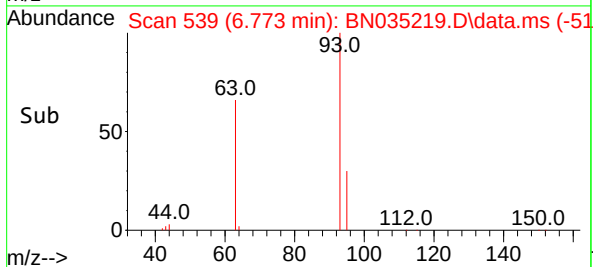
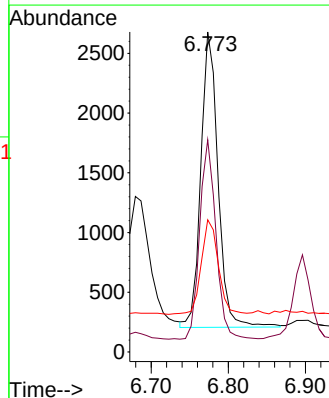
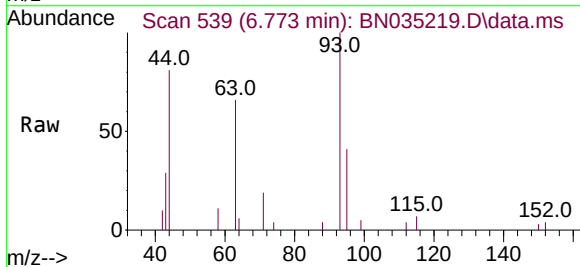


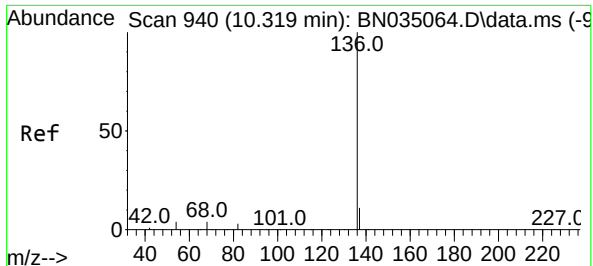
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ahmed



#6
bis(2-Chloroethyl)ether
Concen: 0.450 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

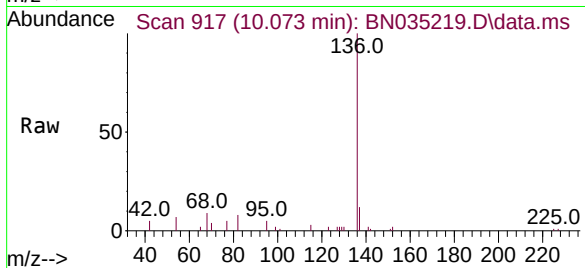
Tgt Ion: 93 Resp: 3817
Ion Ratio Lower Upper
93 100
63 63.9 47.4 71.2
95 31.9 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

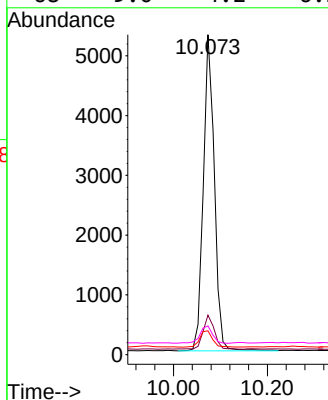
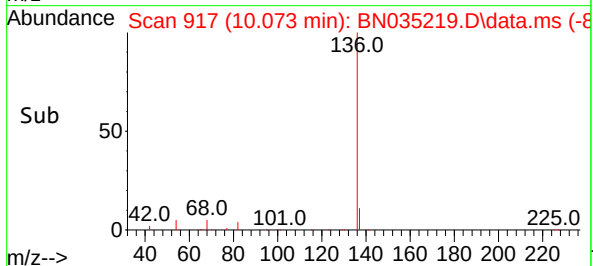
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 136 Resp: 8594
Ion Ratio Lower Upper
136 100
137 12.3 9.8 14.8
54 7.4 4.0 6.0
68 9.0 4.2 6.2

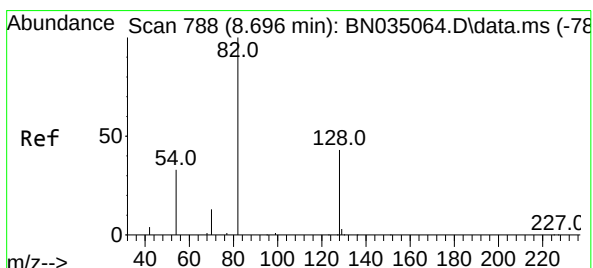
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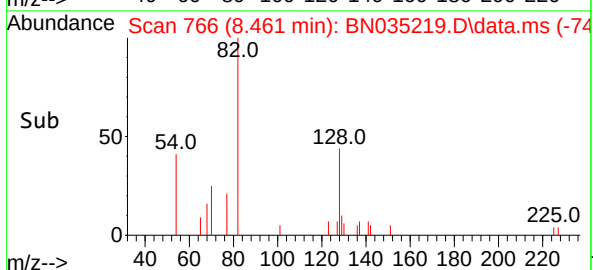
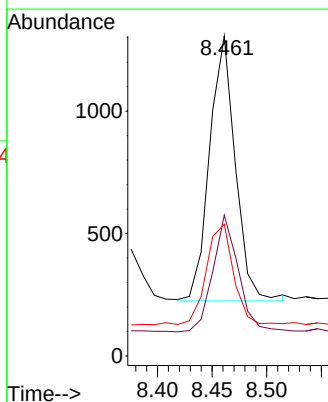
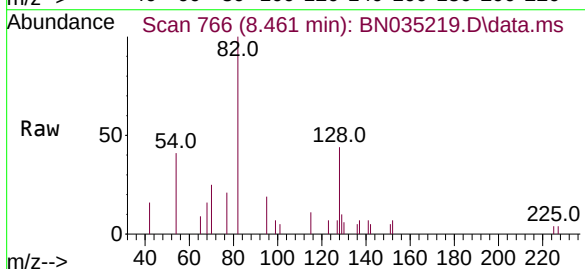
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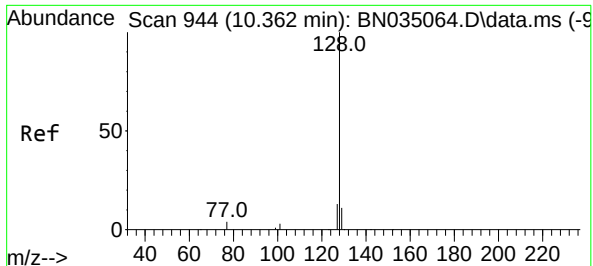
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#8
Nitrobenzene-d5
Concen: 0.238 ng m
RT: 8.461 min Scan# 766
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion: 82 Resp: 1784
Ion Ratio Lower Upper
82 100
128 44.0 36.5 54.7
54 41.2 28.7 43.1





#9

Naphthalene

Concen: 0.393 ng

RT: 10.127 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

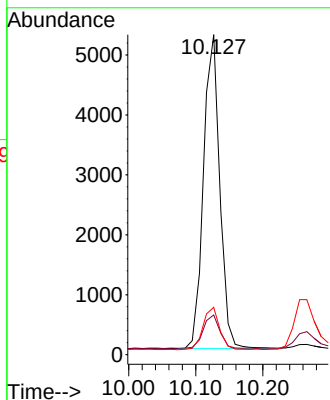
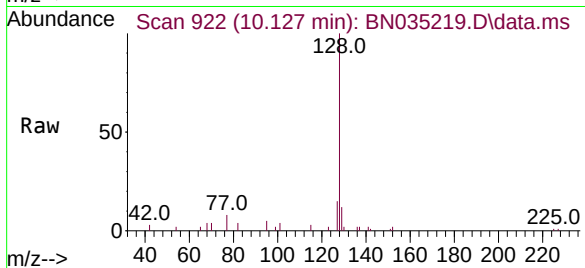
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	128	Resp:	881
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.6	14.4
127	14.8	11.6	17.4

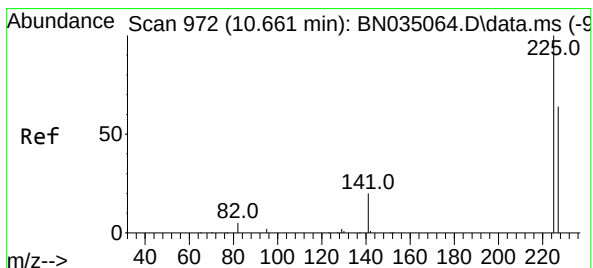
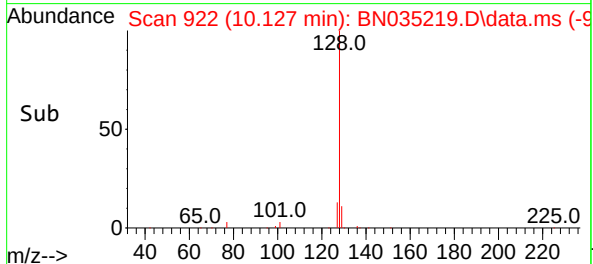
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#10

Hexachlorobutadiene

Concen: 0.324 ng

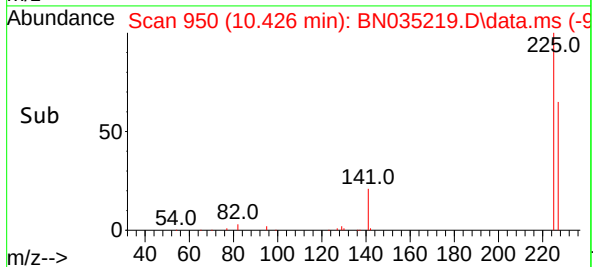
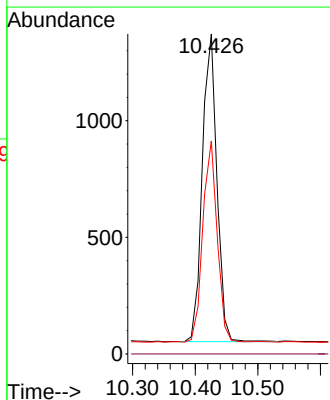
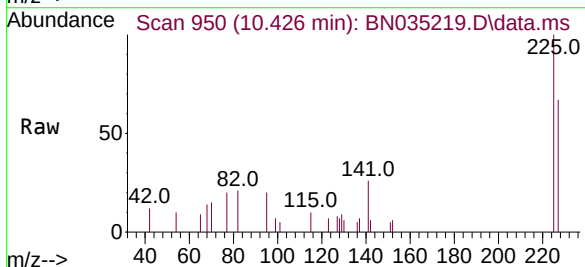
RT: 10.426 min Scan# 950

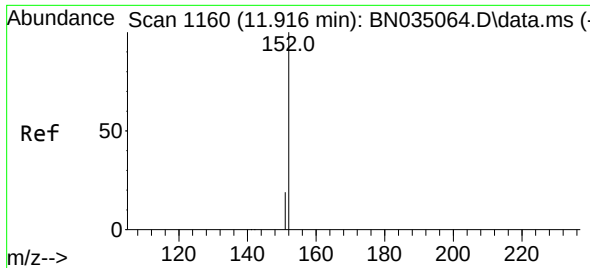
Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

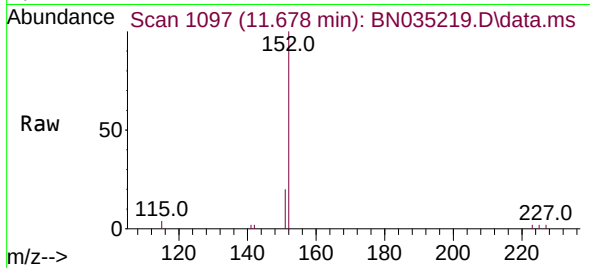
Tgt Ion:	225	Resp:	2134
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.5	77.3





#11
2-Methylnaphthalene-d10
Concen: 0.339 ng
RT: 11.678 min Scan# 1107
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

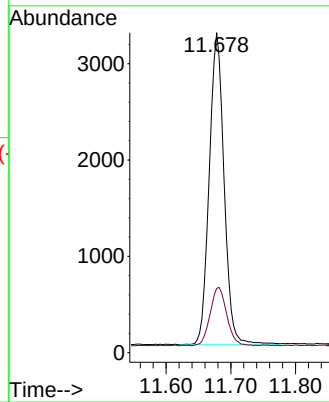
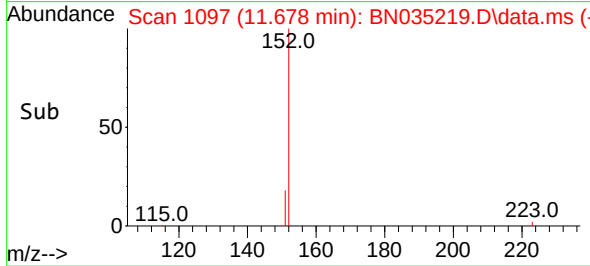
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 518
Ion Ratio Lower Upper
152 100
151 21.0 16.2 24.4

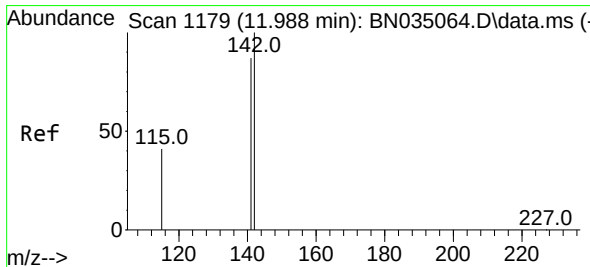
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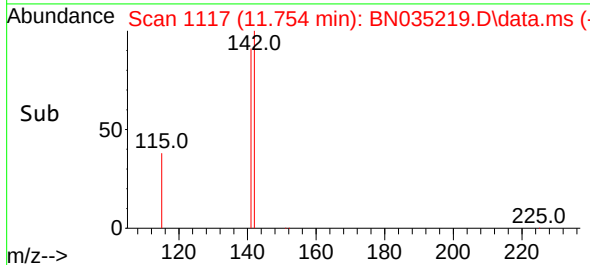
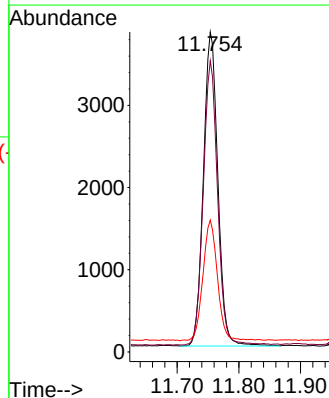
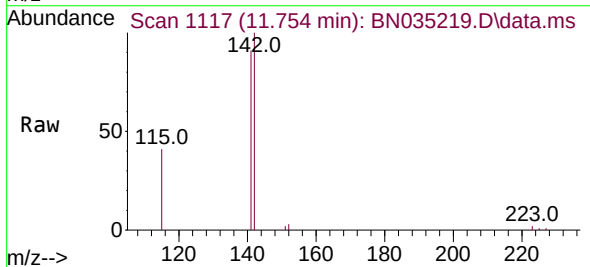
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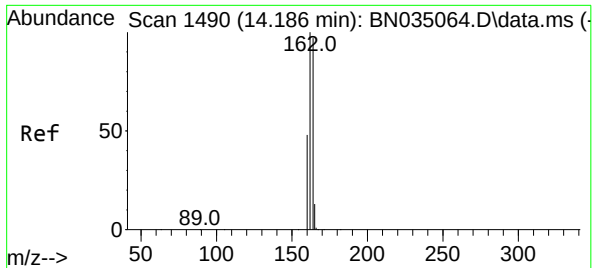
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#12
2-Methylnaphthalene
Concen: 0.377 ng
RT: 11.754 min Scan# 1117
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

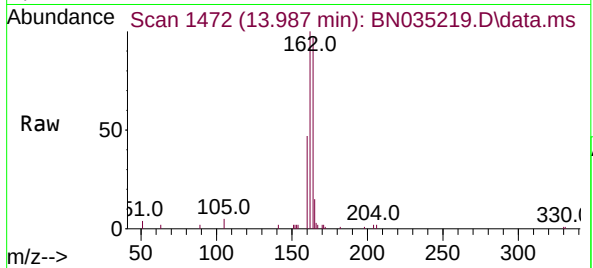
Tgt Ion:142 Resp: 6233
Ion Ratio Lower Upper
142 100
141 91.0 70.1 105.1
115 41.2 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.987 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

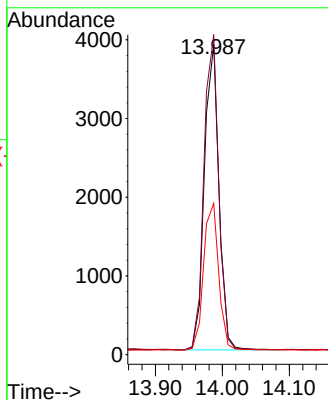
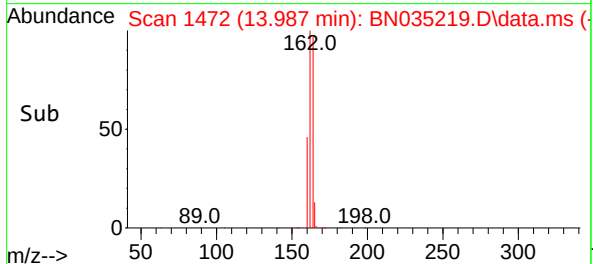
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:164 Resp: 5839
Ion Ratio Lower Upper
164 100
162 103.1 82.2 123.2
160 48.7 40.2 60.4

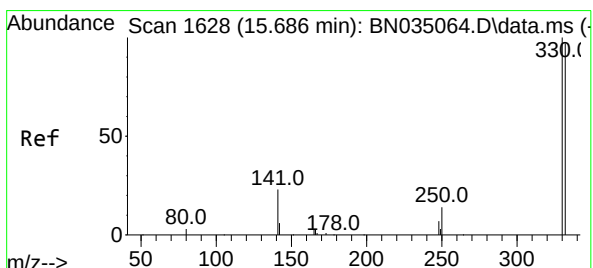
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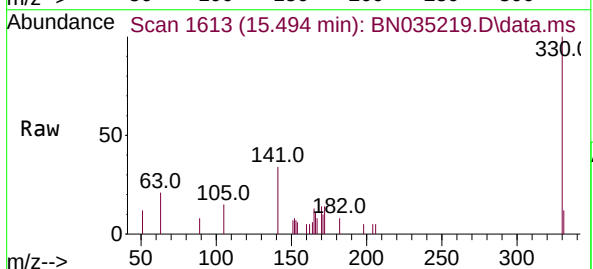


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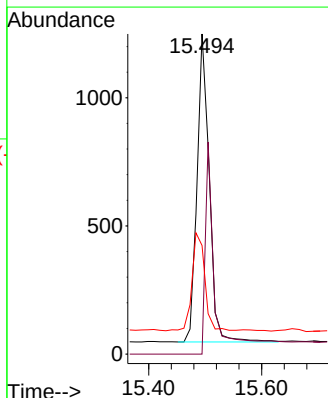
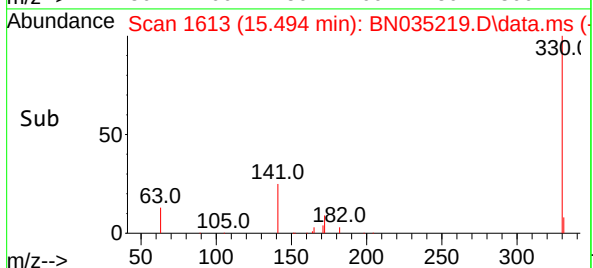
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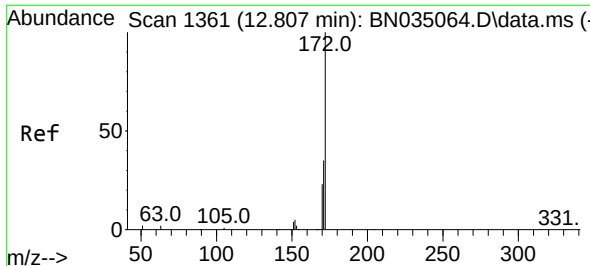


#14
2,4,6-Tribromophenol
Concen: 0.458 ng
RT: 15.494 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



Tgt Ion:330 Resp: 1931
Ion Ratio Lower Upper
330 100
332 57.9 76.9 115.3#
141 0.0 29.6 44.4#





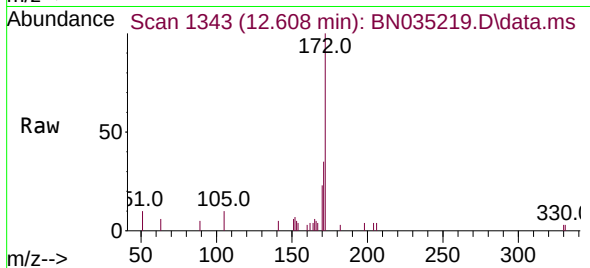
#15
2-Fluorobiphenyl
Concen: 0.074 ng
RT: 12.608 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

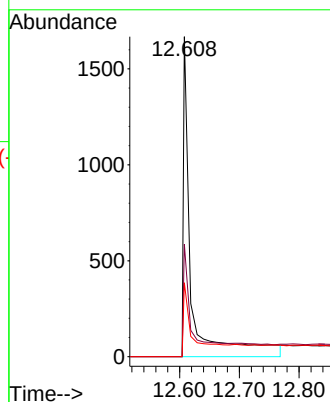
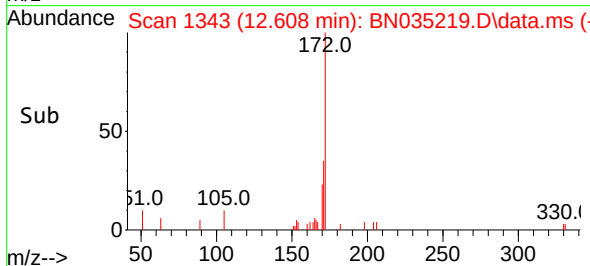
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Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.4
170	23.1	19.0	28.6

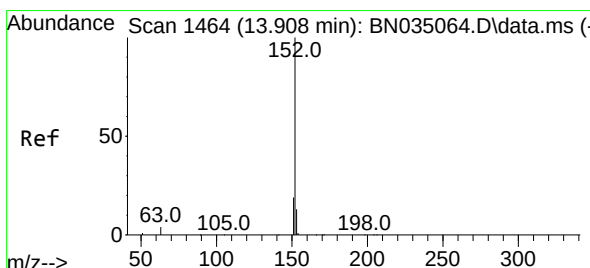
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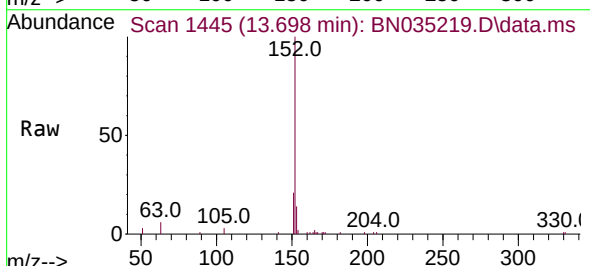


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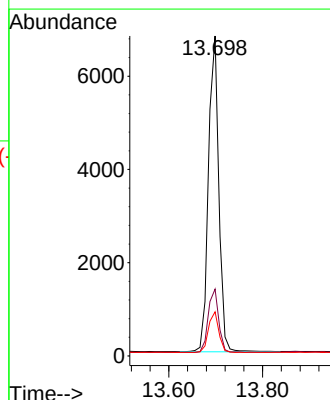
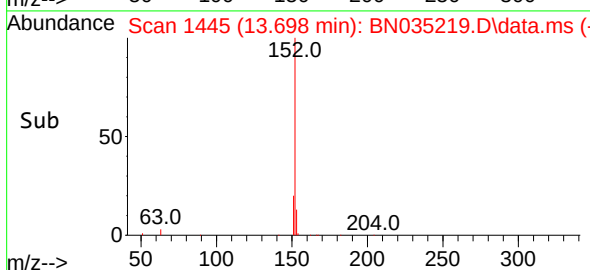
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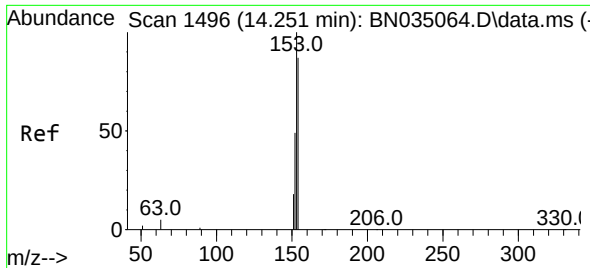


#16
Acenaphthylene
Concen: 0.417 ng
RT: 13.698 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



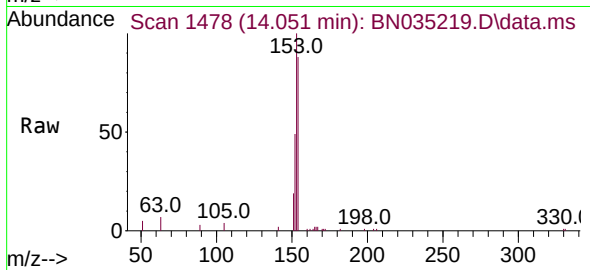
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.8
153	12.8	10.2	15.4





#17
Acenaphthene
Concen: 0.393 ng
RT: 14.051 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

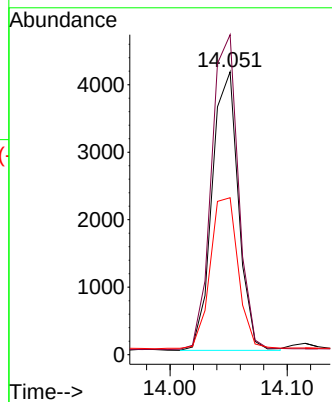
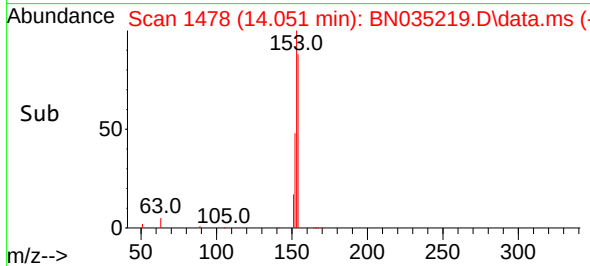
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 6430
Ion Ratio Lower Upper
154 100
153 115.4 91.6 137.4
152 58.0 45.8 68.6

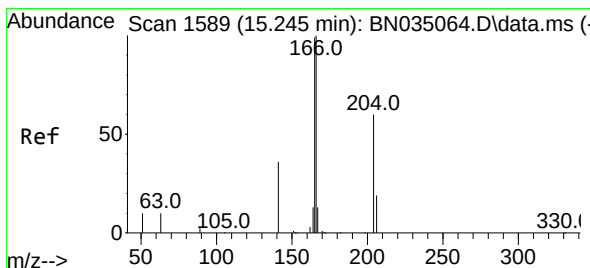
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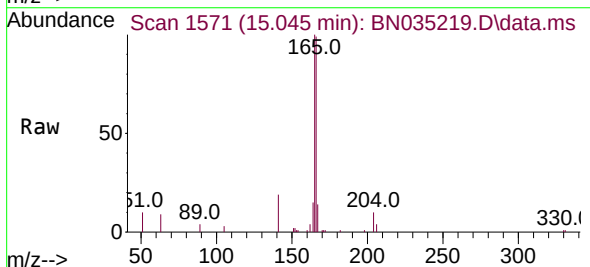


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ahmed

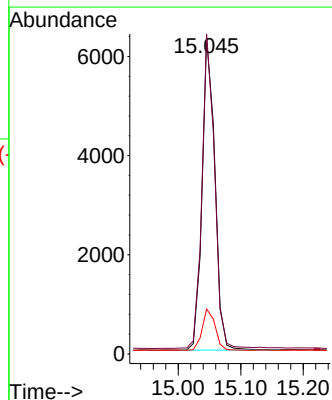
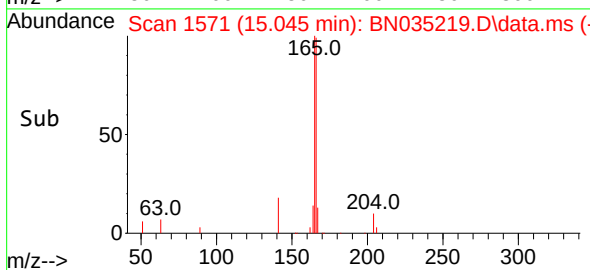
11/22/2024

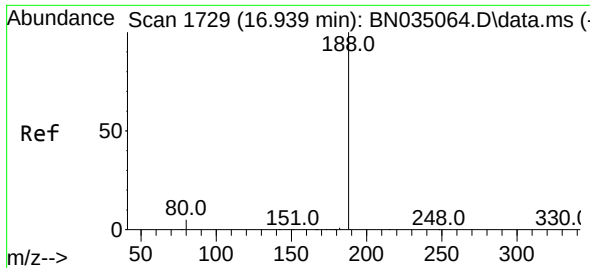


#18
Fluorene
Concen: 0.373 ng
RT: 15.045 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



Tgt Ion:166 Resp: 8973
Ion Ratio Lower Upper
166 100
165 99.7 79.1 118.7
167 13.4 10.6 16.0





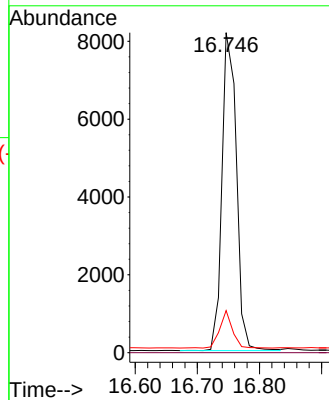
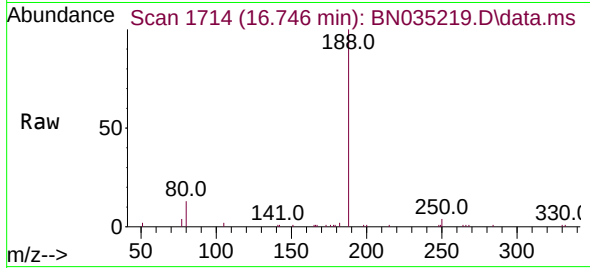
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 1313
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.2 4.3 6.5

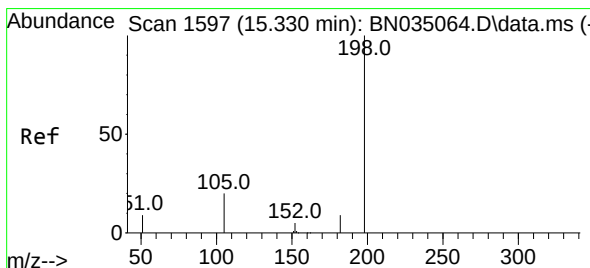
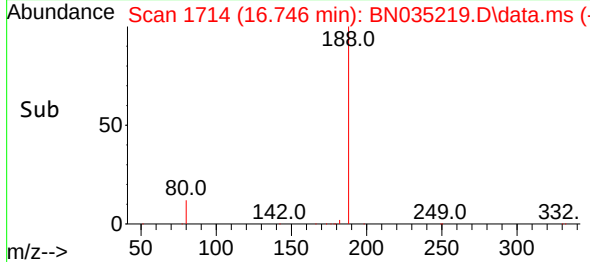
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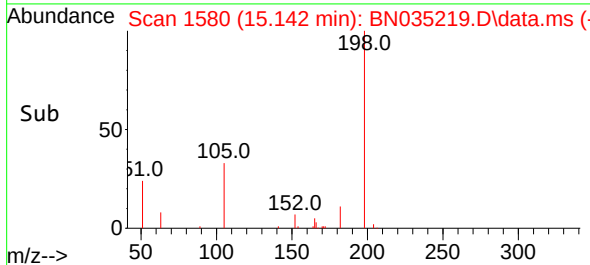
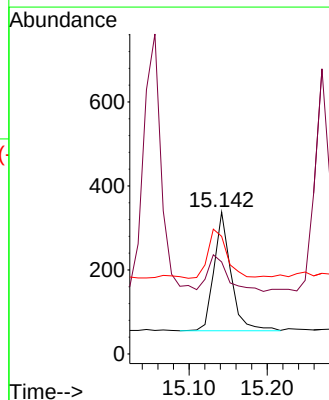
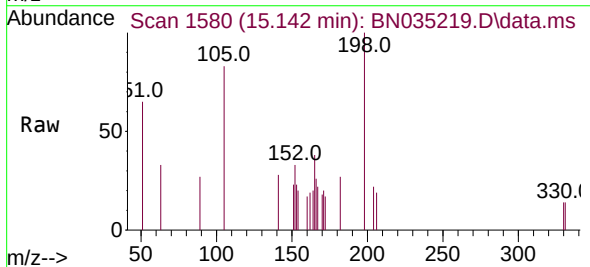
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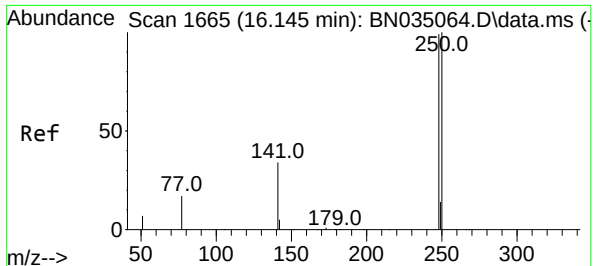
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#20
4,6-Dinitro-2-methylphenol
Concen: 0.156 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:198 Resp: 427
Ion Ratio Lower Upper
198 100
51 64.8 29.9 44.9#
105 82.8 23.7 35.5#





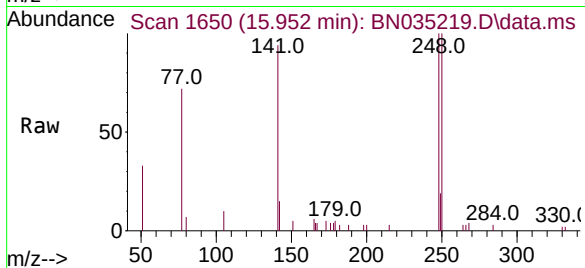
#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 15.952 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

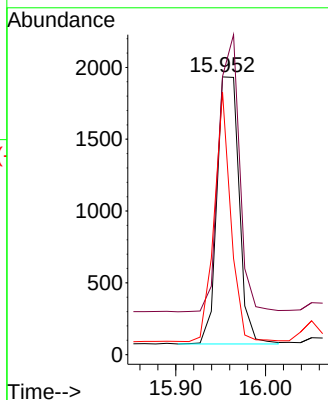
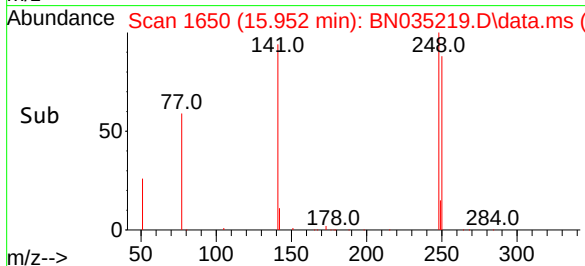
SSTDCCC0.4



Tgt Ion:248 Resp: 3185
Ion Ratio Lower Upper
248 100
250 100.2 81.2 121.8
141 94.6 29.1 43.7

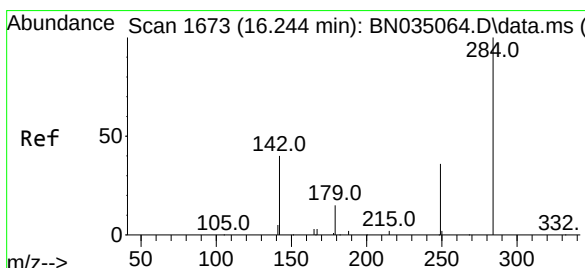
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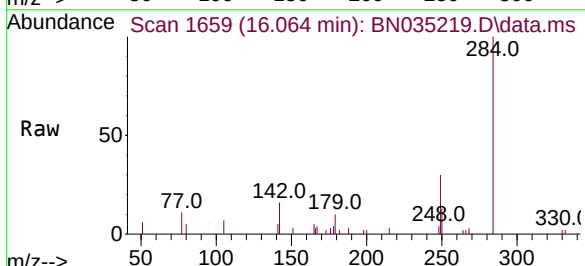


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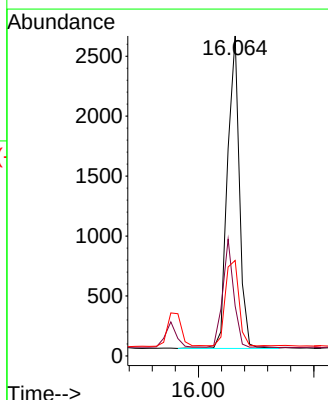
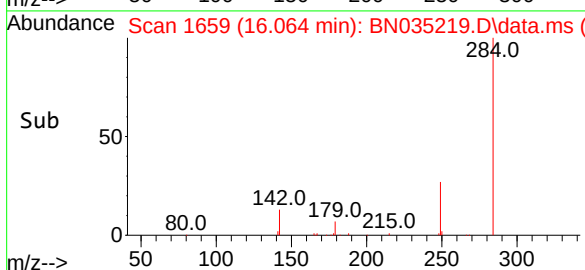
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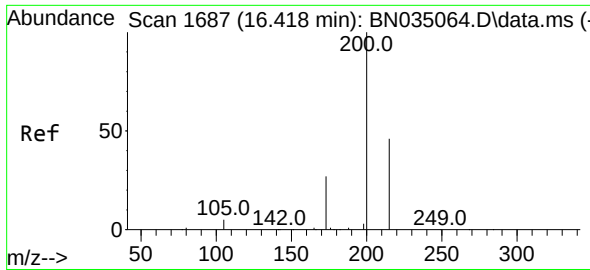


#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 16.064 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



Tgt Ion:284 Resp: 3749
Ion Ratio Lower Upper
284 100
142 32.4 28.2 42.4
249 31.3 26.2 39.2





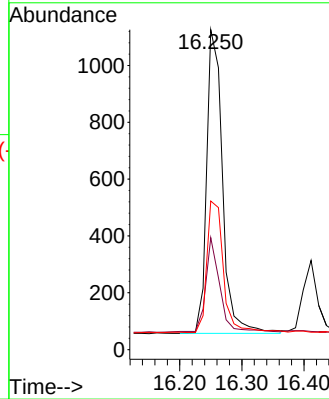
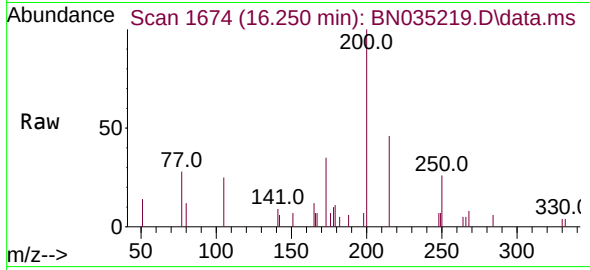
#23
Atrazine
Concen: 0.253 ng
RT: 16.250 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

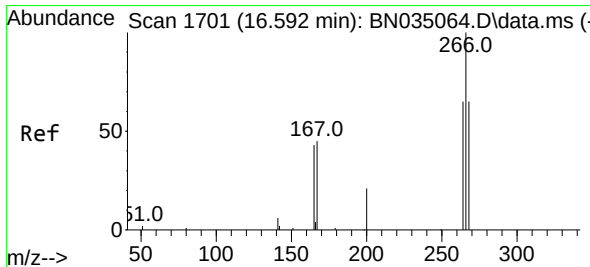
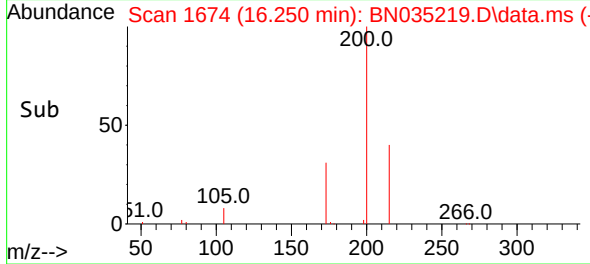
Tgt Ion:200 Resp: 190
Ion Ratio Lower Upper
200 100
173 35.0 22.6 33.8
215 46.4 37.8 56.6

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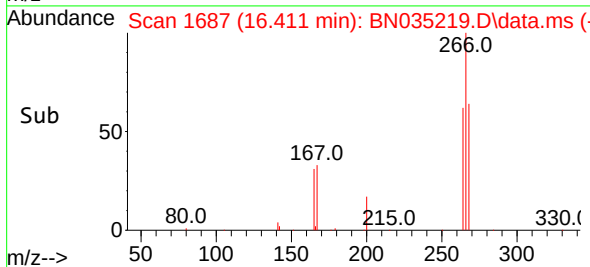
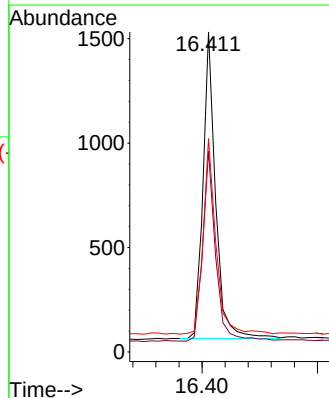
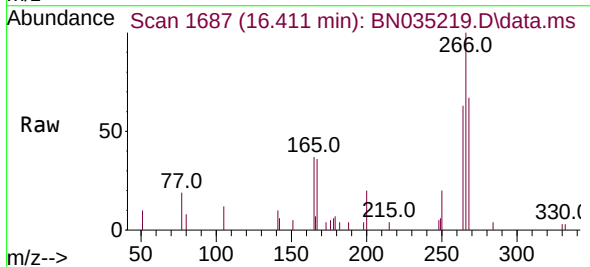


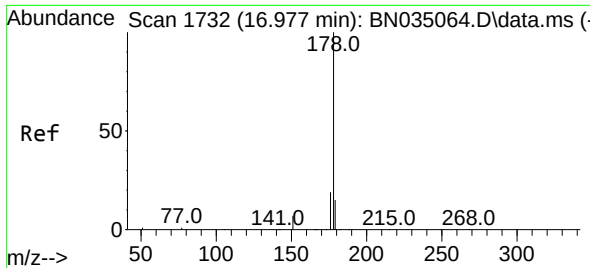
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#24
Pentachlorophenol
Concen: 0.551 ng
RT: 16.411 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:266 Resp: 2236
Ion Ratio Lower Upper
266 100
264 63.4 49.4 74.0
268 64.6 52.6 79.0





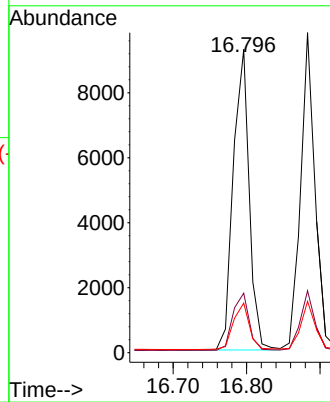
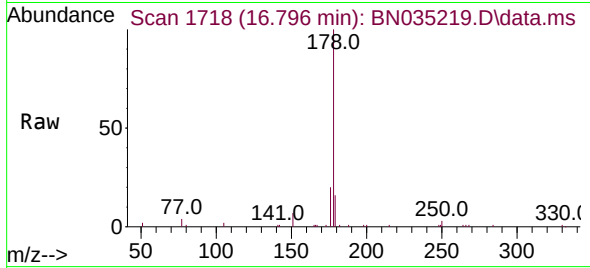
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.796 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 13995
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 15.5 12.6 18.8

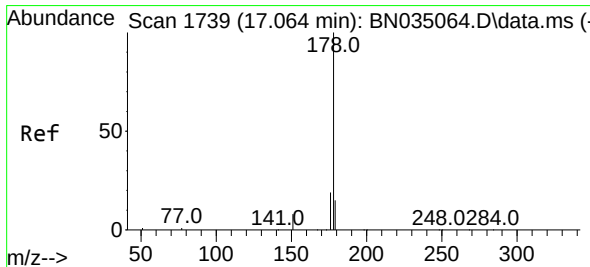
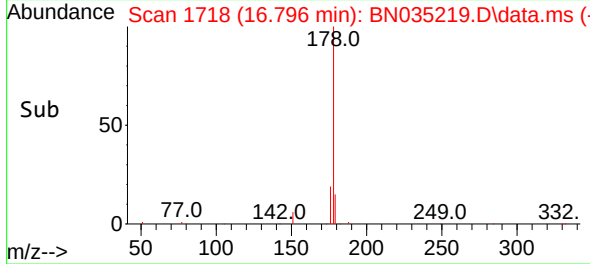
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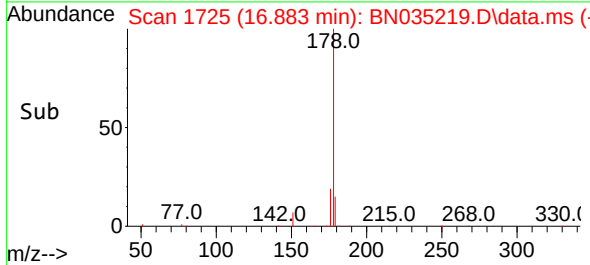
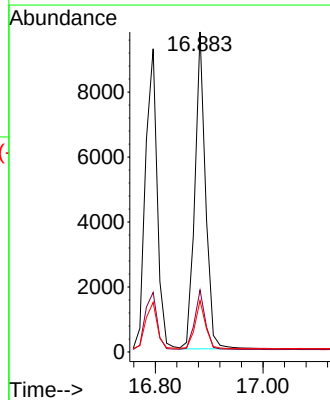
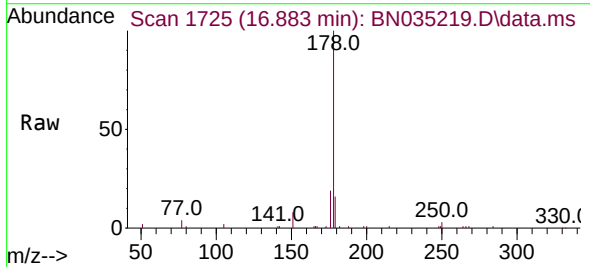
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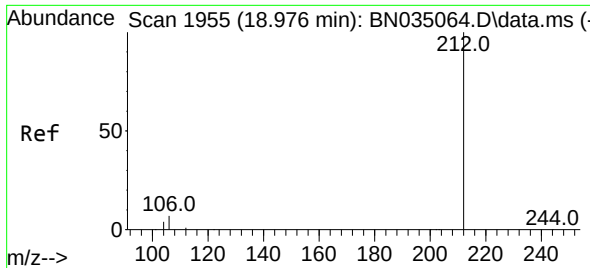
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#26
Anthracene
Concen: 0.425 ng
RT: 16.883 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:178 Resp: 13479
Ion Ratio Lower Upper
178 100
176 18.8 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.312 ng

RT: 18.806 min Scan# 1955

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

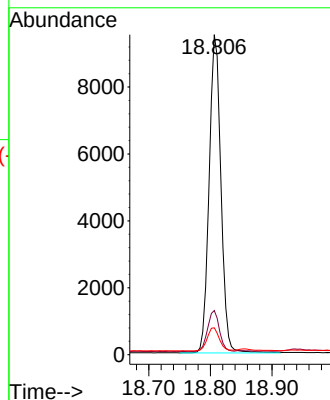
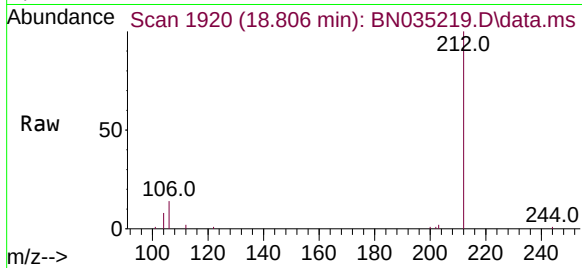
Instrument :

BNA_N

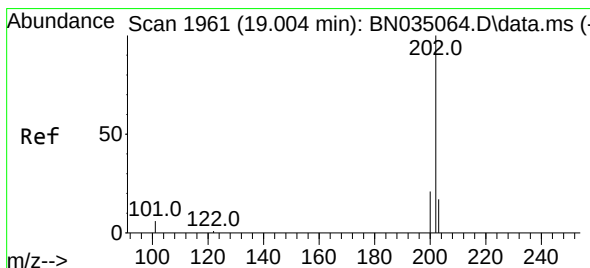
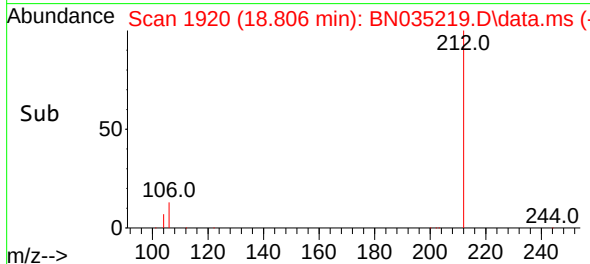
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.0	6.0	9.0
104	7.5	3.5	5.3

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#28

Fluoranthene

Concen: 0.345 ng

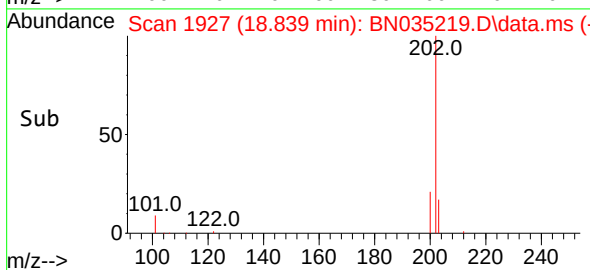
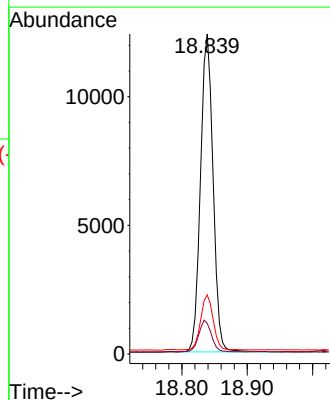
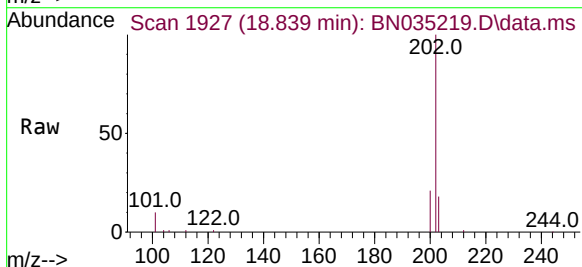
RT: 18.839 min Scan# 1927

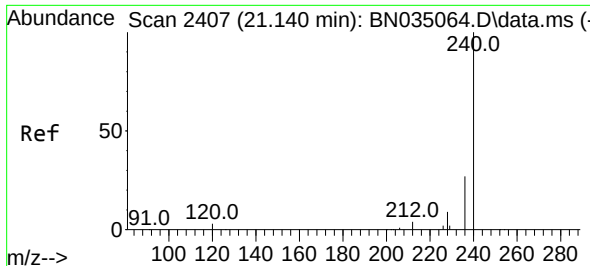
Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.1	5.2	7.8
203	17.3	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

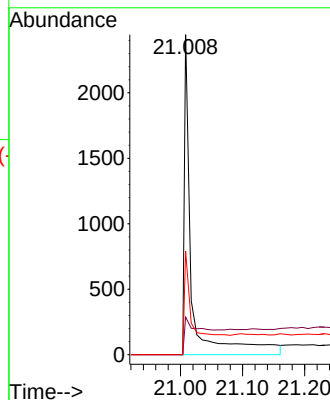
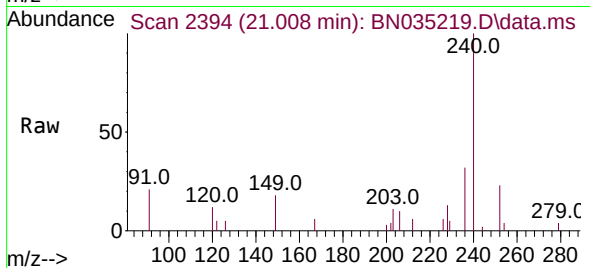
Instrument :

BNA_N

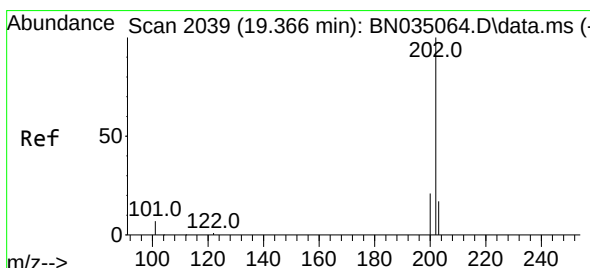
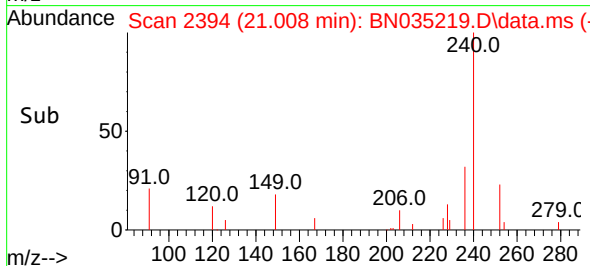
ClientSampleId :

SSTDCCC0.4

Tgt Ion:240	Resp:	2179
Ion Ratio	Lower	Upper
240	100	
120	11.7	3.8 5.6
236	32.4	22.2 33.2

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#30

Pyrene

Concen: 2.306 ng

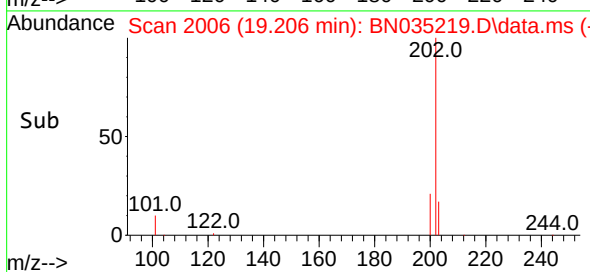
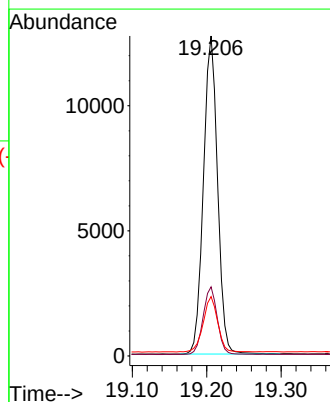
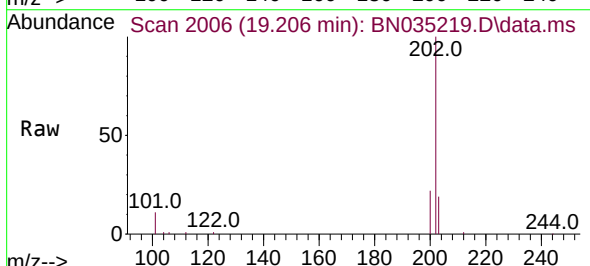
RT: 19.206 min Scan# 2006

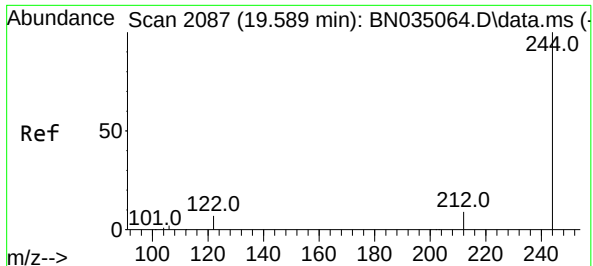
Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

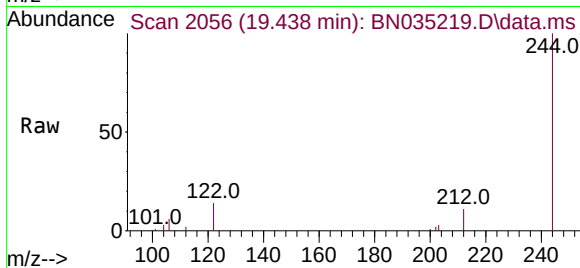
Tgt Ion:202	Resp:	16732
Ion Ratio	Lower	Upper
202	100	
200	21.3	16.7 25.1
203	17.8	14.2 21.4





#31
Terphenyl-d14
Concen: 1.730 ng
RT: 19.438 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

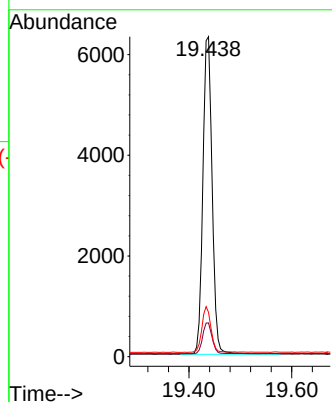
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:244 Resp: 7908
Ion Ratio Lower Upper
244 100
212 10.5 7.6 11.4
122 13.8 6.1 9.1

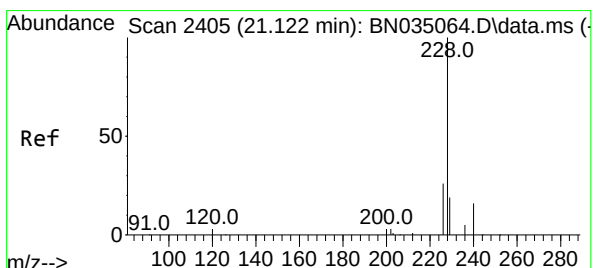
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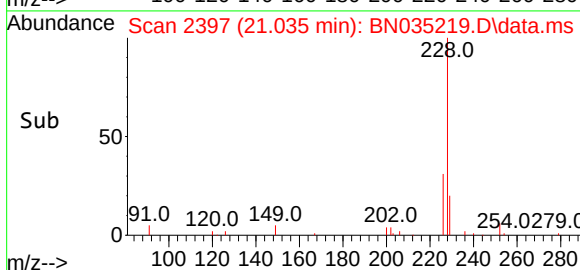
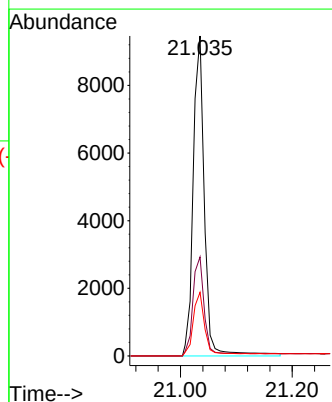
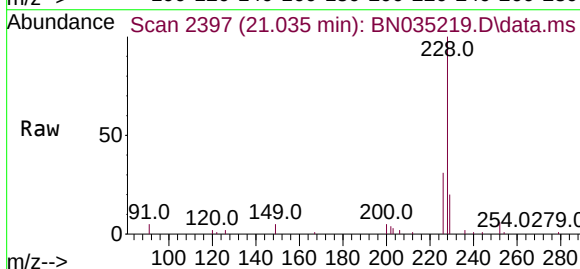
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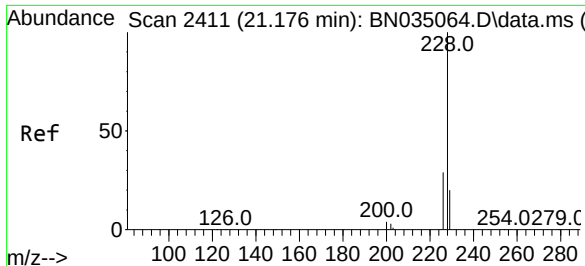
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#32
Benzo(a)anthracene
Concen: 1.669 ng
RT: 21.035 min Scan# 2397
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:228 Resp: 12666
Ion Ratio Lower Upper
228 100
226 30.9 21.4 32.0
229 19.9 15.7 23.5





#33

Chrysene

Concen: 1.685 ng

RT: 21.035 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:228 Resp: 1266

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

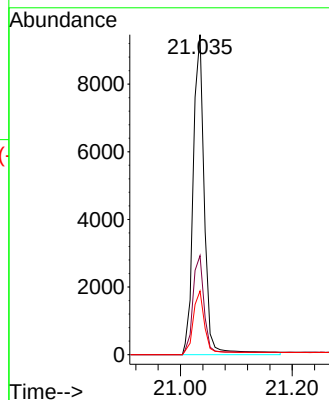
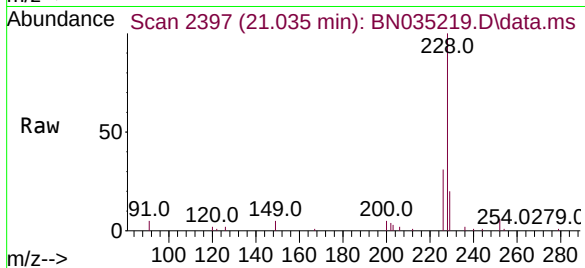
229 19.9 16.2 24.4

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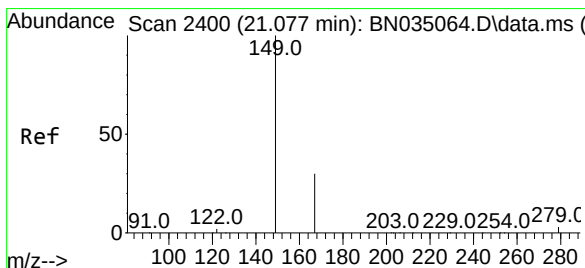
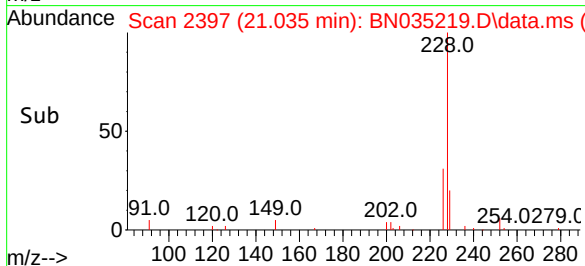
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#34

Bis(2-ethylhexyl)phthalate

Concen: 0.302 ng

RT: 21.026 min Scan# 2396

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

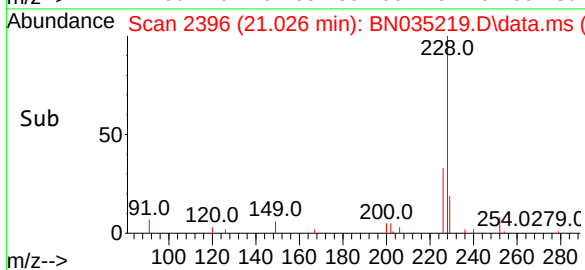
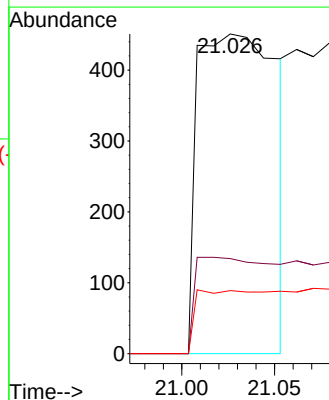
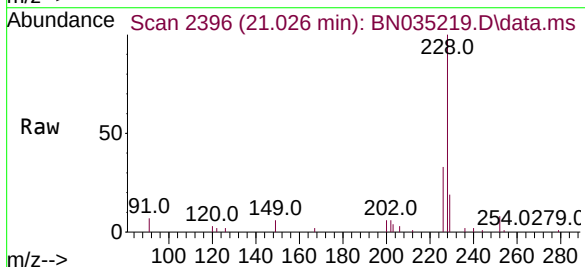
Tgt Ion:149 Resp: 1204

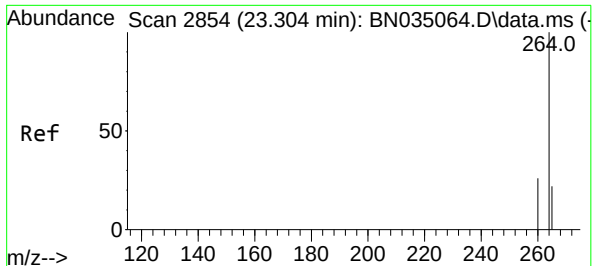
Ion Ratio Lower Upper

149 100

167 30.3 23.2 34.8

279 16.4 3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.104 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

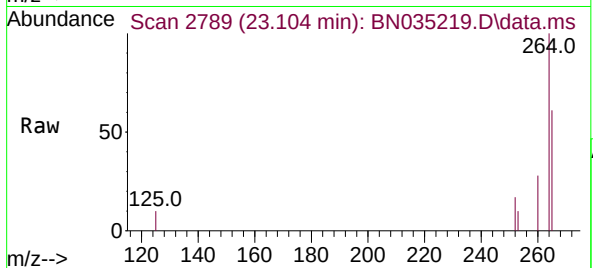
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:264 Resp: 7930

Ion Ratio Lower Upper

264 100

260 27.9 20.9 31.3

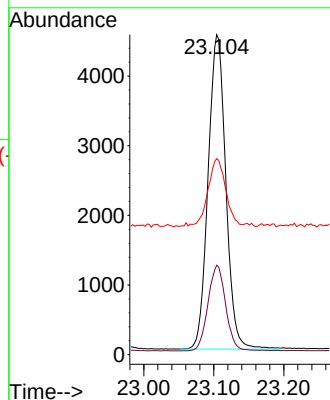
265 61.2 35.4 53.2

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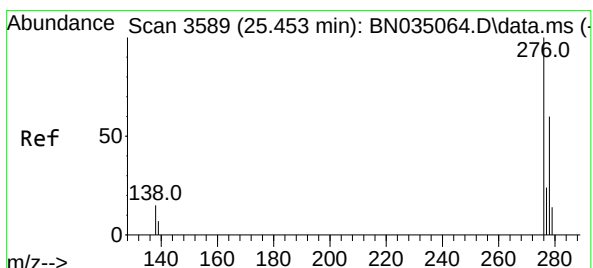
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#36

Indeno(1,2,3-cd)pyrene

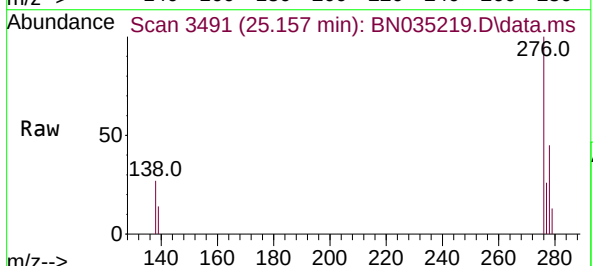
Concen: 0.384 ng

RT: 25.157 min Scan# 3491

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22



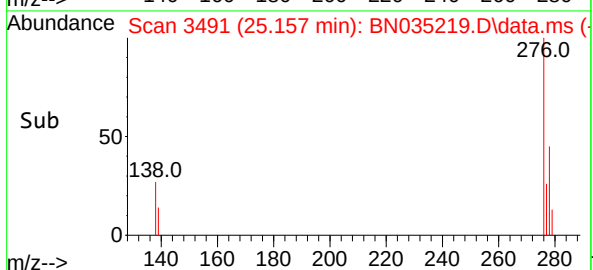
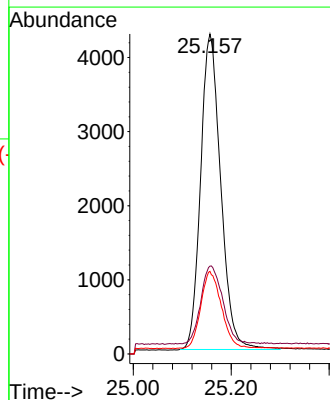
Tgt Ion:276 Resp: 12159

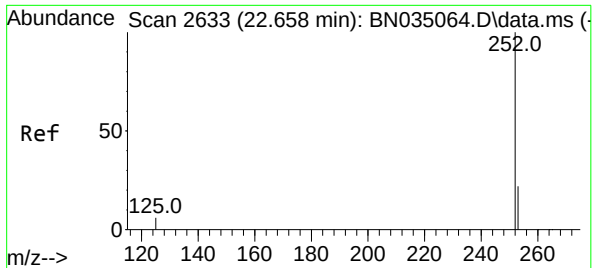
Ion Ratio Lower Upper

276 100

138 25.9 13.0 19.4#

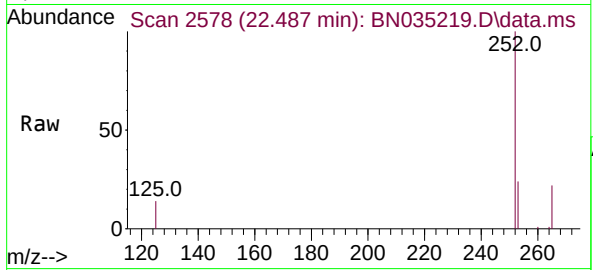
277 24.1 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.429 ng
RT: 22.487 min Scan# 2578
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

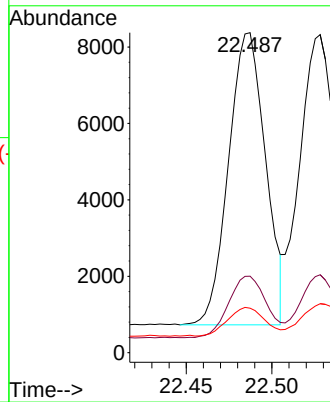
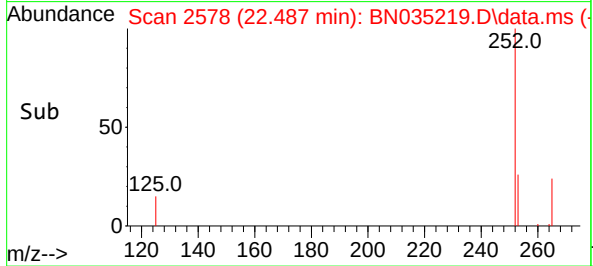
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:252 Resp: 1145
Ion Ratio Lower Upper
252 100
253 23.9 19.3 28.9
125 13.9 6.2 9.2

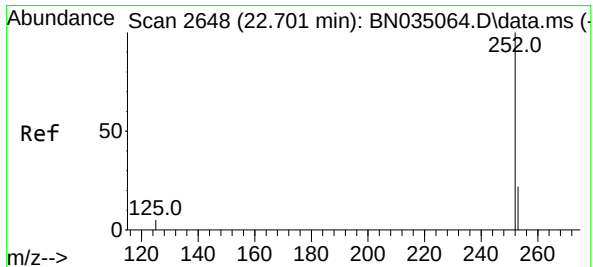
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Patel



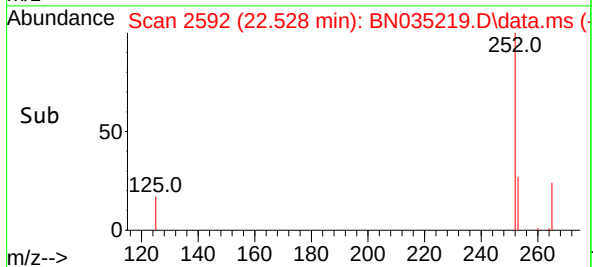
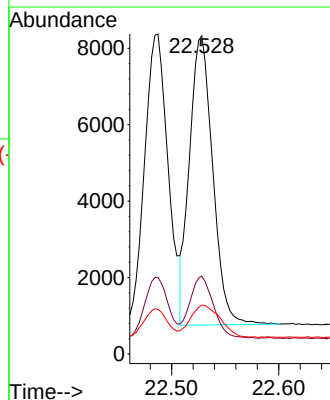
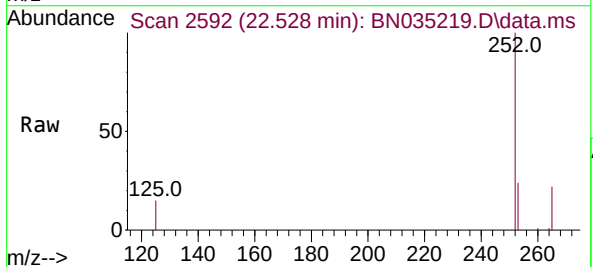
11/22/2024
Supervised By :mohammad
ahmed

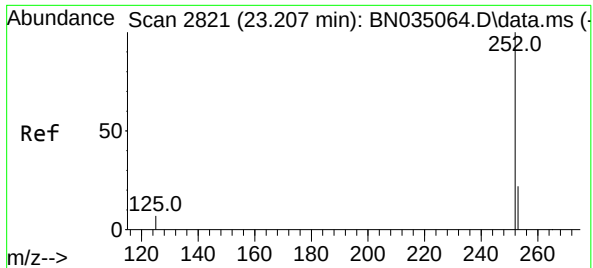
11/22/2024



#38
Benzo(k)fluoranthene
Concen: 0.428 ng
RT: 22.528 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

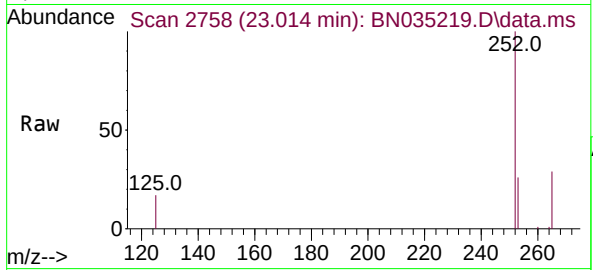
Tgt Ion:252 Resp: 11422
Ion Ratio Lower Upper
252 100
253 24.5 19.5 29.3
125 15.4 6.5 9.7





#39
Benzo(a)pyrene
Concen: 0.420 ng
RT: 23.014 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

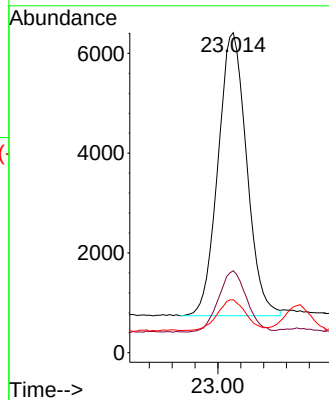
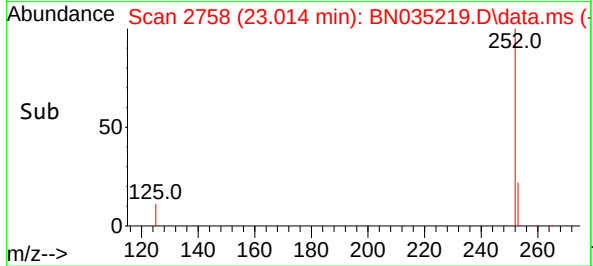
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:252 Resp: 986
Ion Ratio Lower Upper
252 100
253 25.6 20.1 30.1
125 16.6 7.5 11.3

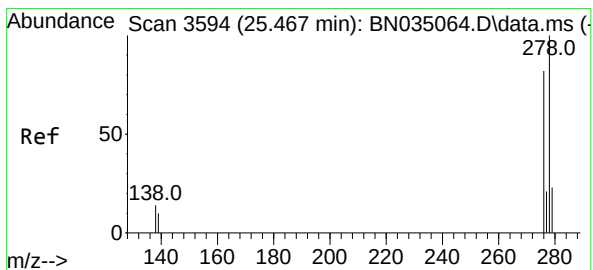
Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel



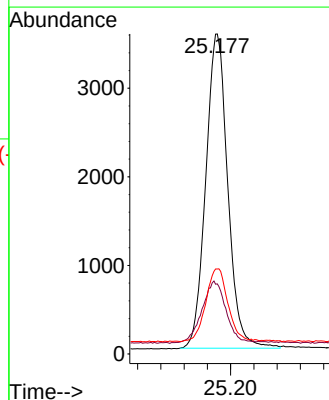
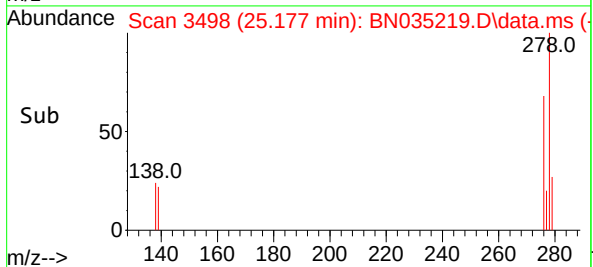
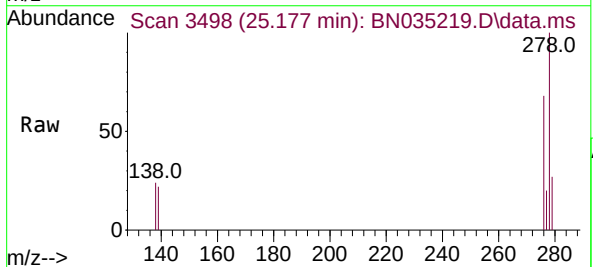
11/22/2024
Supervised By :mohammad
ahmed

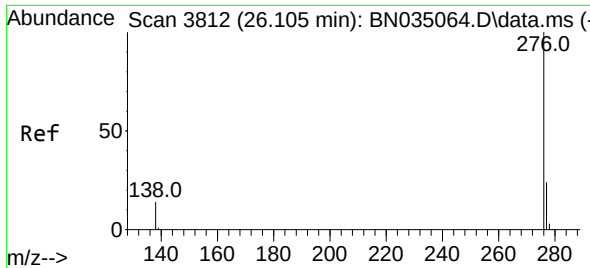
11/22/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.372 ng
RT: 25.177 min Scan# 3498
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

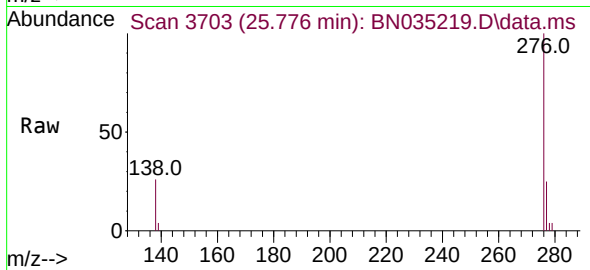
Tgt Ion:278 Resp: 9332
Ion Ratio Lower Upper
278 100
139 21.9 9.3 13.9#
279 26.5 19.7 29.5





#41
Benzo(g,h,i)perylene
Concen: 0.377 ng
RT: 25.776 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

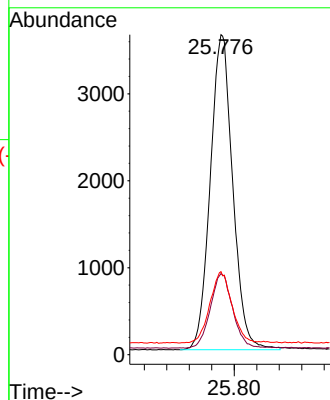
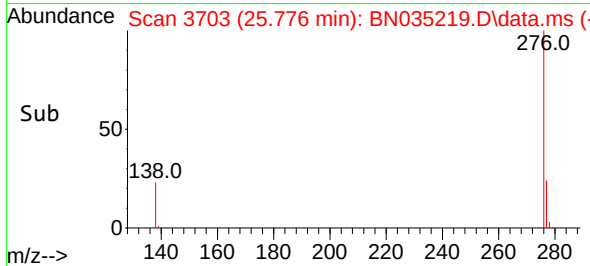
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 276 Resp: 10040
Ion Ratio Lower Upper
276 100
277 25.4 19.9 29.9
138 26.0 11.6 17.4

Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel



11/22/2024
Supervised By :mohammad
ahmed

11/22/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035219.D
Acq On : 21 Nov 2024 13:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 21 14:33:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 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	127	0.00
2	1,4-Dioxane	0.363	0.403	-11.0	152#	0.00
3	n-Nitrosodimethylamine	0.339	0.350	-3.2	136	0.00
4 S	2-Fluorophenol	1.015	1.174	-15.7	157#	0.00
5 S	Phenol-d6	1.273	1.472	-15.6	161#	0.00
6	bis(2-Chloroethyl)ether	0.956	1.074	-12.3	152#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	125	0.00
8 S	Nitrobenzene-d5	0.348	0.208	40.2#	81	0.00
9	Naphthalene	1.044	1.025	1.8	131	0.00
10	Hexachlorobutadiene	0.306	0.248	19.0	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.604	15.3	114	0.00
12	2-Methylnaphthalene	0.770	0.725	5.8	128	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.289	0.331	-14.5	149	0.00
15 S	2-Fluorobiphenyl	1.624	0.299	81.6#	22#	0.00
16	Acenaphthylene	1.709	1.782	-4.3	129	0.00
17	Acenaphthene	1.120	1.101	1.7	119	0.00
18	Fluorene	1.648	1.537	6.7	114	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.033	60.2#	44#	0.00
21	4-Bromophenyl-phenylether	0.255	0.243	4.7	96	0.00
22	Hexachlorobenzene	0.264	0.285	-8.0	110	0.00
23	Atrazine	0.229	0.145	36.7#	65	0.00
24	Pentachlorophenol	0.124	0.170	-37.1#	159#	0.00
25	Phenanthrene	1.053	1.066	-1.2	103	0.00
26	Anthracene	0.967	1.026	-6.1	109	0.00
27 SURR	Fluoranthene-d10	1.225	0.956	22.0	80	0.00
28	Fluoranthene	1.448	1.250	13.7	88	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	15#	0.00
30	Pyrene	1.332	7.679	-476.5#	87	0.00
31 S	Terphenyl-d14	0.839	3.629	-332.5#	65	0.00
32	Benzo(a)anthracene	1.393	5.813	-317.3#	64	0.00
33	Chrysene	1.380	5.813	-321.2#	64	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.553	24.4	12#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	46#	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.532	4.0	47#	0.00
37	Benzo(b)fluoranthene	1.346	1.443	-7.2	52	0.00
38	Benzo(k)fluoranthene	1.347	1.439	-6.8	52	0.00
39 C	Benzo(a)pyrene	1.184	1.243	-5.0	51	0.00
40	Dibenzo(a,h)anthracene	1.264	1.176	7.0	45#	0.00
41	Benzo(g,h,i)perylene	1.345	1.266	5.9	46#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035219.D
Acq On : 21 Nov 2024 13:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 21 14:33:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN11324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 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	127	0.00
2	1,4-Dioxane	0.400	0.443	-10.7	152	0.00
3	n-Nitrosodimethylamine	0.400	0.413	-3.2	136	0.00
4 S	2-Fluorophenol	0.400	0.462	-15.5	157	0.00
5 S	Phenol-d6	0.400	0.463	-15.8	161	0.00
6	bis(2-Chloroethyl)ether	0.400	0.450	-12.5	152	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	125	0.00
8 S	Nitrobenzene-d5	0.400	0.238	40.5#	81	0.00
9	Naphthalene	0.400	0.393	1.8	131	0.00
10	Hexachlorobutadiene	0.400	0.324	19.0	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.339	15.3	114	0.00
12	2-Methylnaphthalene	0.400	0.377	5.8	128	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.400	0.458	-14.5	149	0.00
15 S	2-Fluorobiphenyl	0.400	0.074	81.5#	22	0.00
16	Acenaphthylene	0.400	0.417	-4.2	129	0.00
17	Acenaphthene	0.400	0.393	1.8	119	0.00
18	Fluorene	0.400	0.373	6.8	114	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.156	61.0#	44	0.00
21	4-Bromophenyl-phenylether	0.400	0.381	4.8	96	0.00
22	Hexachlorobenzene	0.400	0.432	-8.0	110	0.00
23	Atrazine	0.400	0.253	36.8#	65	0.00
24	Pentachlorophenol	0.400	0.551	-37.8#	159	0.00
25	Phenanthrene	0.400	0.405	-1.3	103	0.00
26	Anthracene	0.400	0.425	-6.2	109	0.00
27 SURR	Fluoranthene-d10	0.400	0.312	22.0	80	0.00
28	Fluoranthene	0.400	0.345	13.8	88	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	15	0.00
30	Pyrene	0.400	2.306	-476.5#	87	0.00
31 S	Terphenyl-d14	0.400	1.730	-332.5#	65	0.00
32	Benzo(a)anthracene	0.400	1.669	-317.3#	64	0.00
33	Chrysene	0.400	1.685	-321.3#	64	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.302	24.5	12	0.00
35 I	Perylene-d12	0.400	0.400	0.0	46	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.384	4.0	47	0.00
37	Benzo(b)fluoranthene	0.400	0.429	-7.2	52	0.00
38	Benzo(k)fluoranthene	0.400	0.428	-7.0	52	0.00
39 C	Benzo(a)pyrene	0.400	0.420	-5.0	51	0.00
40	Dibenzo(a,h)anthracene	0.400	0.372	7.0	45	0.00
41	Benzo(g,h,i)perylene	0.400	0.377	5.8	46	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.: P4866 SAS No.: P4866 SDG No.: P4866

Instrument ID: BNA_N Calibration Date/Time: 11/21/2024 23:01

Lab File ID: BN035235.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:40 16:15

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.713	0.581		-18.5	50.0
Fluoranthene-d10	1.225	0.987		-19.4	50.0
2-Fluorophenol	1.015	1.087		7.1	50.0
Phenol-d6	1.273	1.273		0.0	50.0
Nitrobenzene-d5	0.348	0.189		-45.7	50.0
2-Fluorobiphenyl	1.624	0.255		-84.3	50.0
2,4,6-Tribromophenol	0.289	0.242		-16.3	50.0
Terphenyl-d14	0.839	6.857		717.3	50.0
1,4-Dioxane	0.363	0.381		5.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035235.D
 Acq On : 21 Nov 2024 23:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:33:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	3350	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7674	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	4706	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	9785	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	924	0.400	ng	# 0.00
35) Perylene-d12	23.092	264	8785	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	3641	0.428	ng	0.00
5) Phenol-d6	6.528	99	4263	0.400	ng	0.00
8) Nitrobenzene-d5	8.461	82	1450m	0.217	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	4455	0.326	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	1140	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1202	0.063	ng	0.00
27) Fluoranthene-d10	18.802	212	9657	0.322	ng	0.00
31) Terphenyl-d14	19.429	244	6336	3.268	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.011	88	1275	0.419	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.307	42	994	0.351	ng	# 88
6) bis(2-Chloroethyl)ether	6.773	93	3222	0.403	ng	97
9) Naphthalene	10.116	128	7849	0.392	ng	100
10) Hexachlorobutadiene	10.415	225	1778	0.303	ng	# 99
12) 2-Methylnaphthalene	11.750	142	5199	0.352	ng	96
16) Acenaphthylene	13.688	152	7880	0.392	ng	99
17) Acenaphthene	14.040	154	5046	0.383	ng	98
18) Fluorene	15.045	166	6711	0.346	ng	99
20) 4,6-Dinitro-2-methylph...	15.142	198	322	0.158	ng	# 47
21) 4-Bromophenyl-phenylether	15.952	248	2324	0.373	ng	# 84
22) Hexachlorobenzene	16.051	284	2690	0.416	ng	98
23) Atrazine	16.250	200	1260	0.225	ng	95
24) Pentachlorophenol	16.411	266	1189	0.393	ng	97
25) Phenanthrene	16.784	178	10390	0.403	ng	99
26) Anthracene	16.883	178	9521	0.403	ng	99
28) Fluoranthene	18.834	202	12485	0.353	ng	# 97
30) Pyrene	19.201	202	12814	4.164	ng	99
32) Benzo(a)anthracene	21.026	228	11745	3.650	ng	96
33) Chrysene	21.026	228	11745	3.685	ng	99
34) Bis(2-ethylhexyl)phtha...	21.026	149	1040	0.616	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.145	276	13630	0.389	ng	# 90
37) Benzo(b)fluoranthene	22.475	252	11553	0.391	ng	# 95
38) Benzo(k)fluoranthene	22.519	252	11920	0.403	ng	# 94
39) Benzo(a)pyrene	23.002	252	10296	0.396	ng	# 93
40) Dibenzo(a,h)anthracene	25.162	278	10355	0.373	ng	# 90
41) Benzo(g,h,i)perylene	25.762	276	11294	0.382	ng	# 91

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035235.D
 Acq On : 21 Nov 2024 23:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024

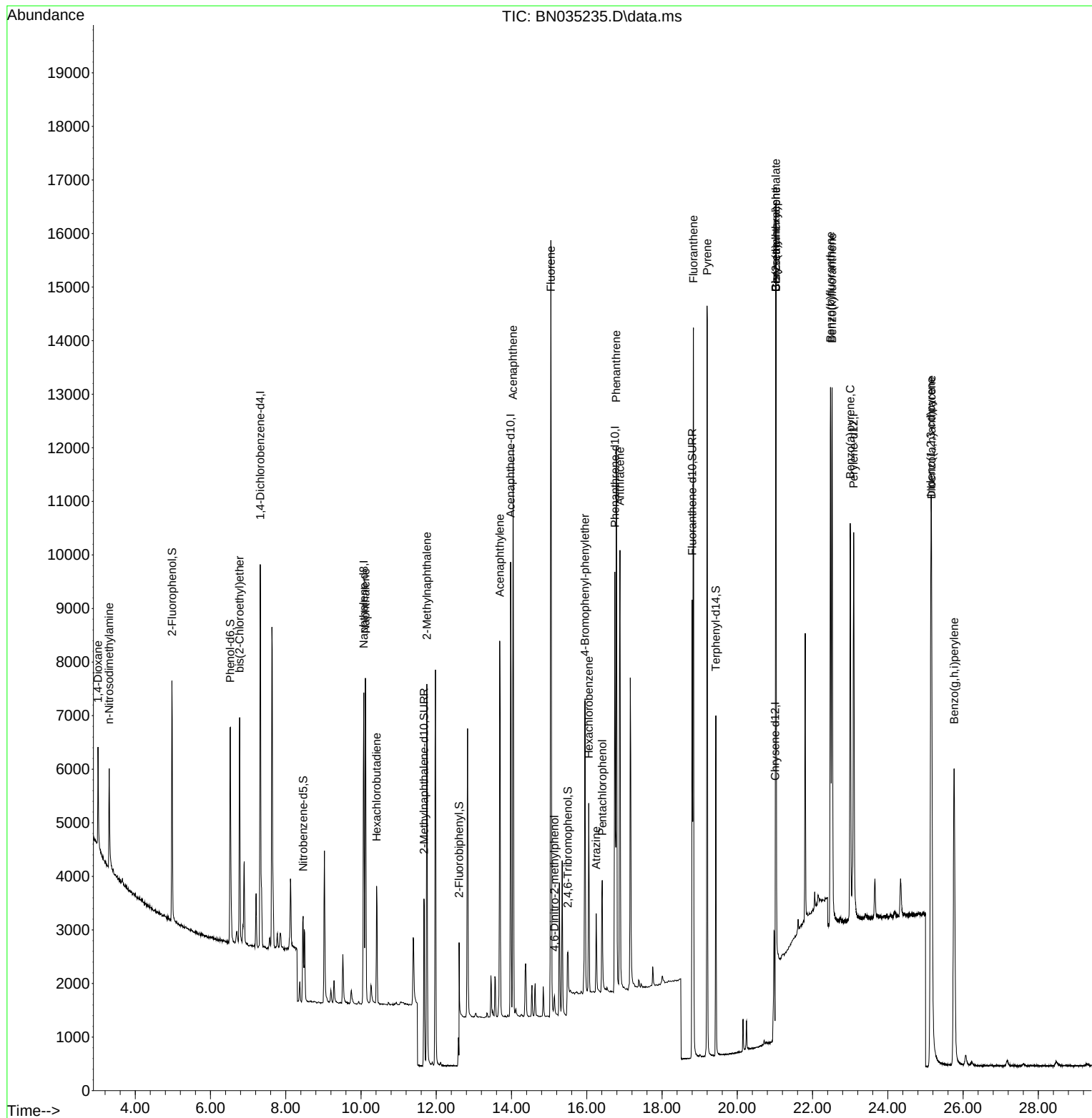
Quant Time: Nov 21 23:33:46 2024

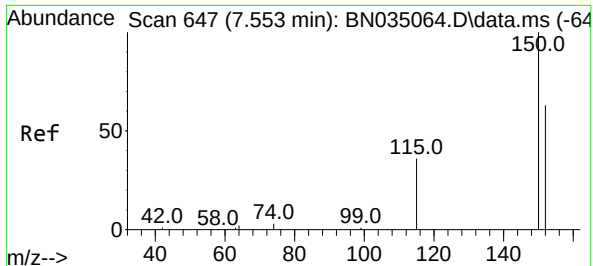
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 14:00:03 2024

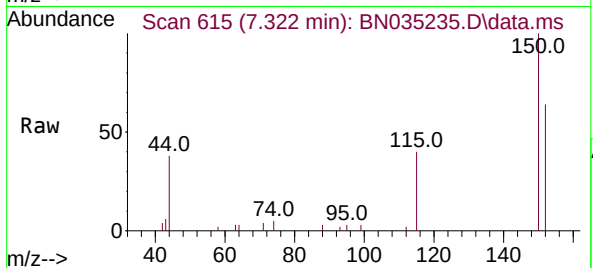
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

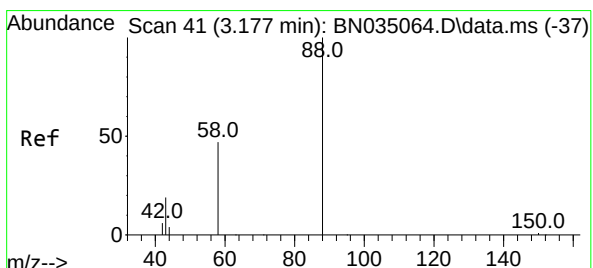
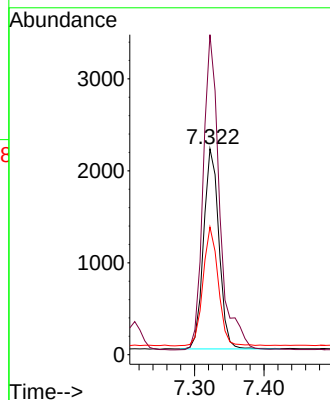
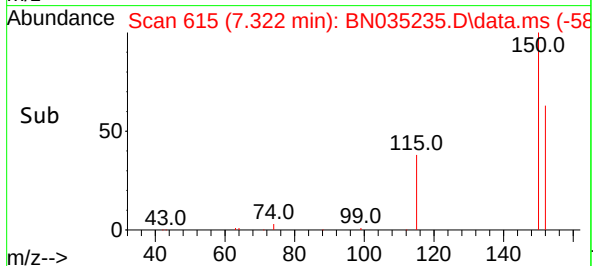
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 152 Resp: 3350
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 62.1 47.8 71.6

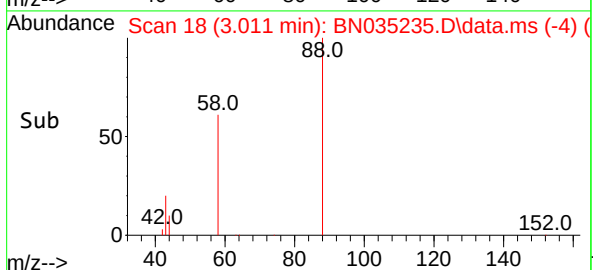
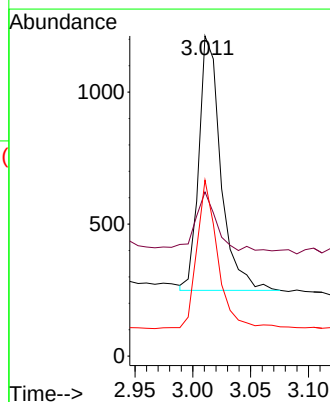
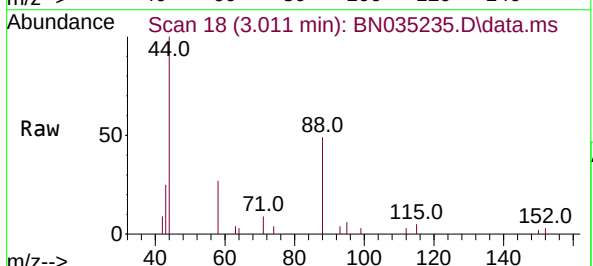
Manual Integrations
APPROVED

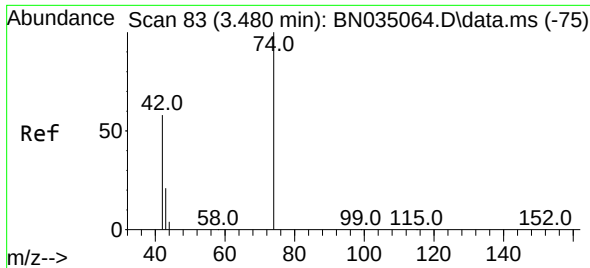
Reviewed By : Yogesh Patel 11/22/2024
Supervised By : mohammad ahmed 11/22/2024



#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.011 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

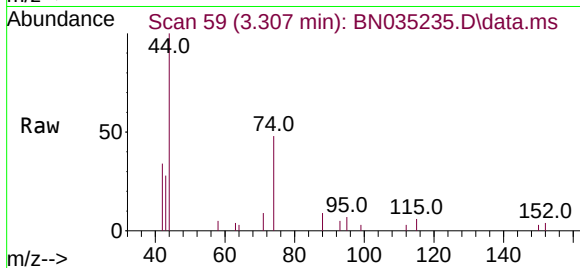
Tgt Ion: 88 Resp: 1275
Ion Ratio Lower Upper
88 100
43 22.0 16.9 25.3
58 56.2 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.307 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

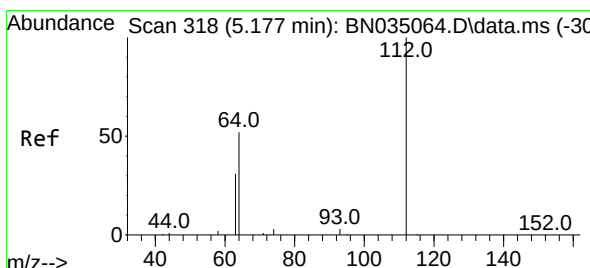
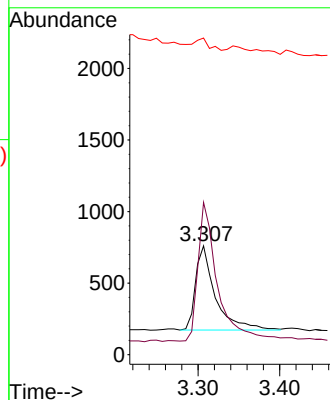
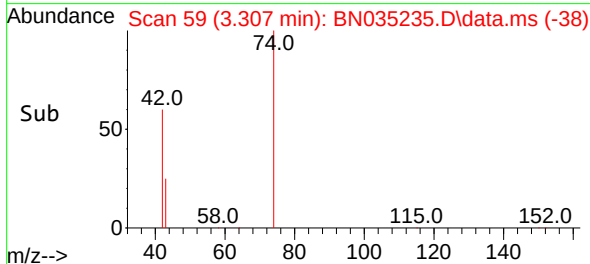
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 994
Ion Ratio Lower Upper
42 100
74 166.1 120.8 181.2
44 10.4 2.9 4.3

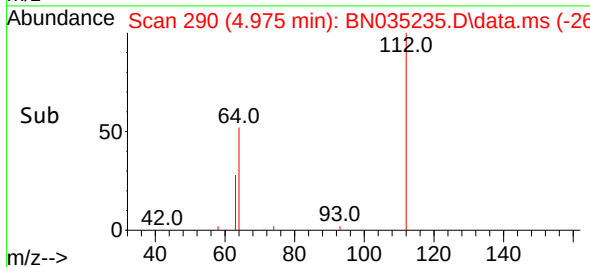
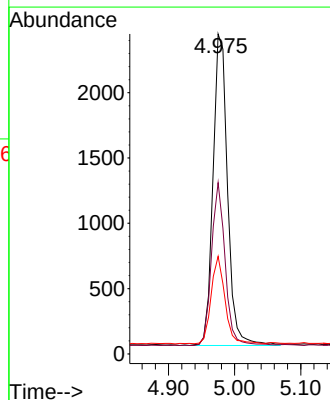
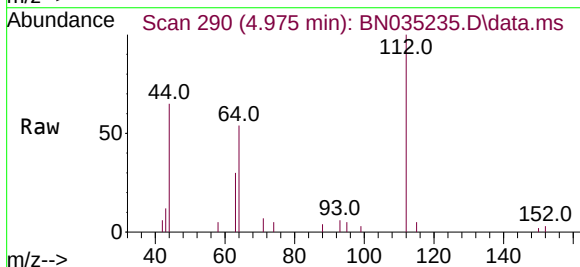
Manual Integrations
APPROVED

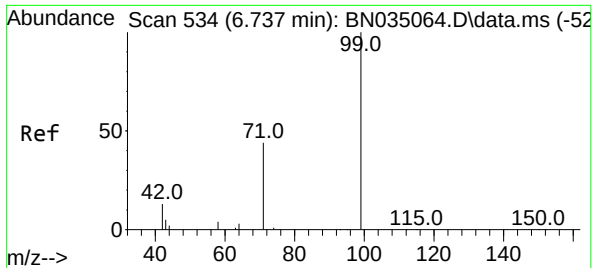
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.428 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:112 Resp: 3641
Ion Ratio Lower Upper
112 100
64 48.9 39.7 59.5
63 26.9 23.0 34.4





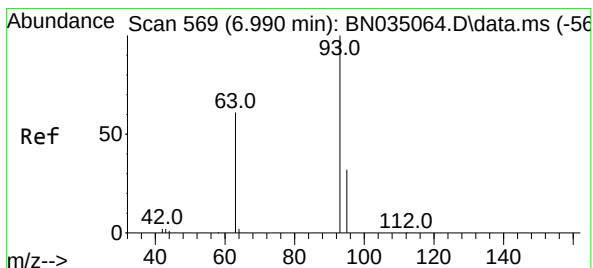
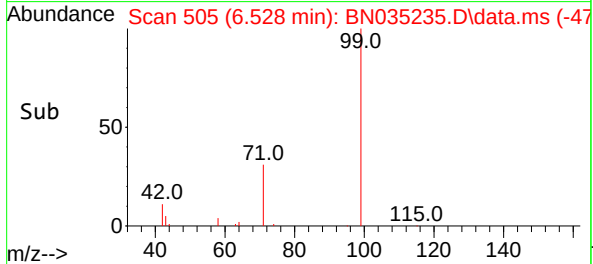
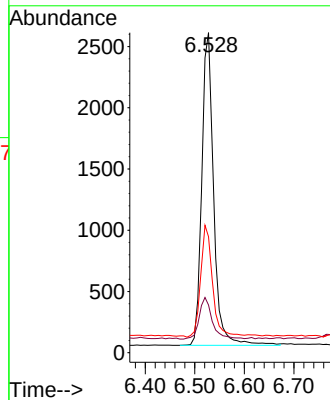
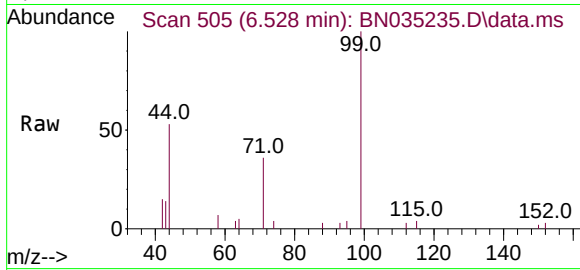
#5
Phenol-d6
Concen: 0.400 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 426
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 35.9 34.6 51.8

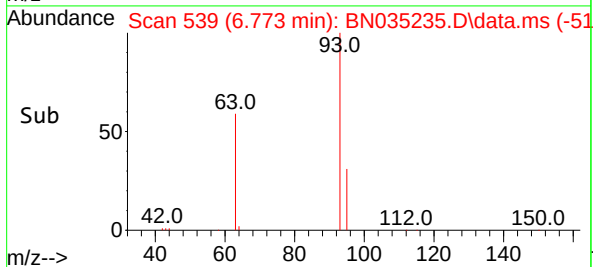
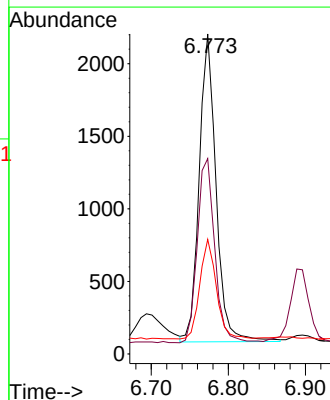
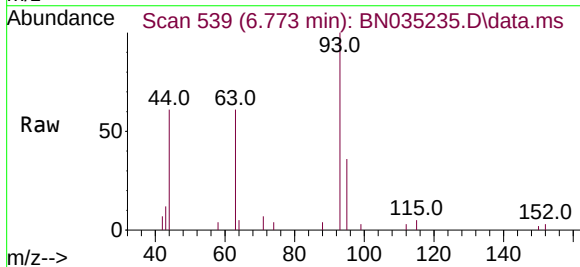
Manual Integrations
APPROVED

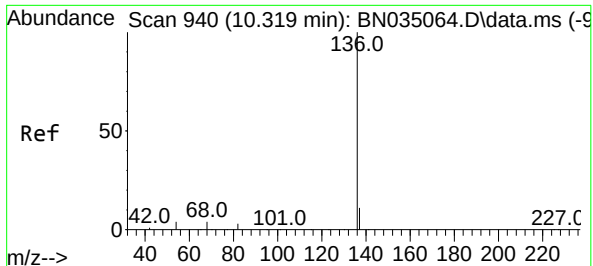
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

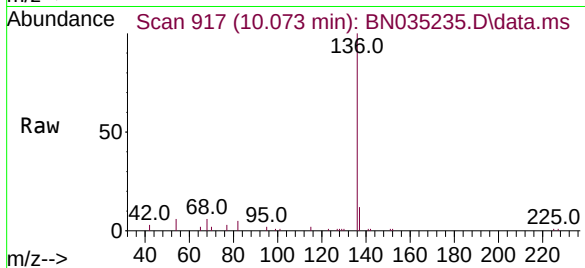
Tgt Ion: 93 Resp: 3222
Ion Ratio Lower Upper
93 100
63 61.9 47.4 71.2
95 31.4 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

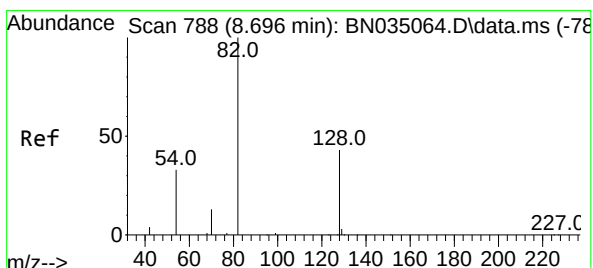
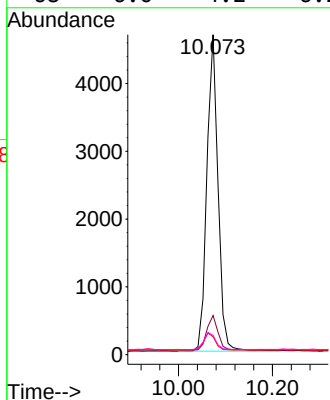
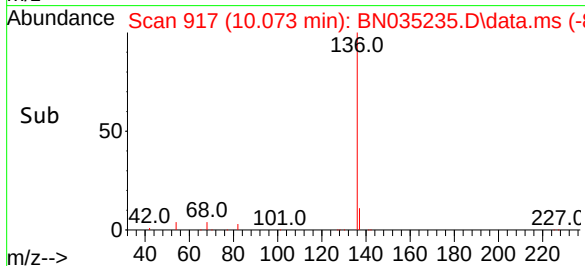
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion: 136 Resp: 7674
Ion Ratio Lower Upper
136 100
137 12.2 9.8 14.8
54 5.6 4.0 6.0
68 6.0 4.2 6.2

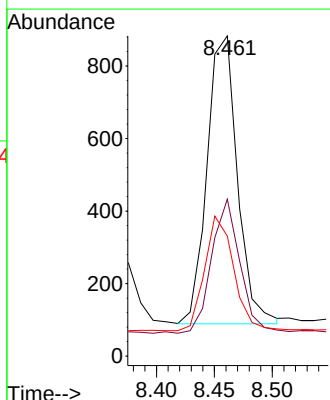
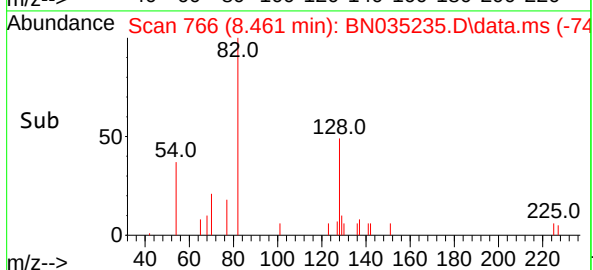
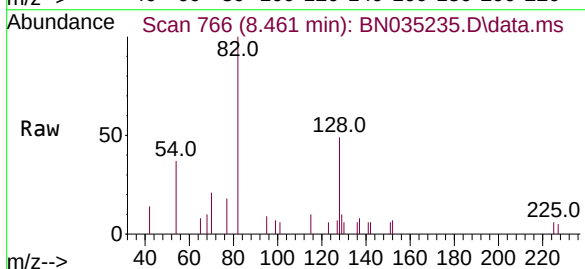
Manual Integrations
APPROVED

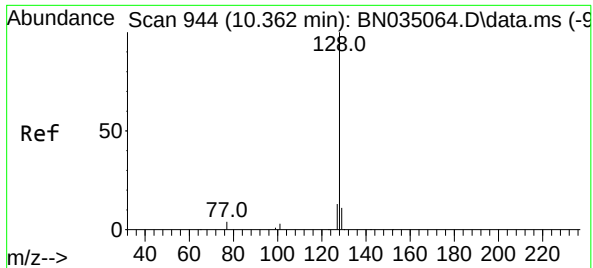
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#8
Nitrobenzene-d5
Concen: 0.217 ng m
RT: 8.461 min Scan# 766
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 82 Resp: 1450
Ion Ratio Lower Upper
82 100
128 49.0 36.5 54.7
54 37.5 28.7 43.1





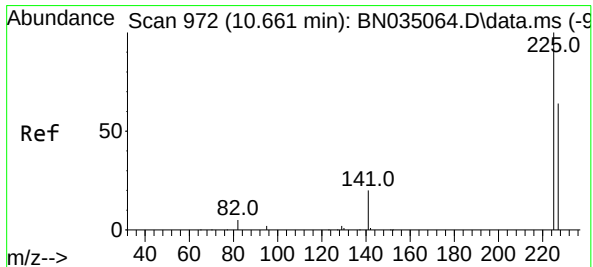
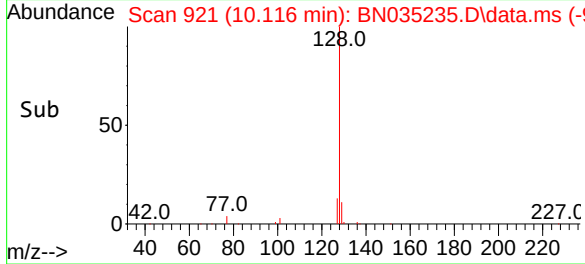
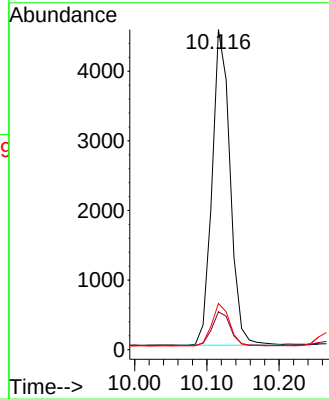
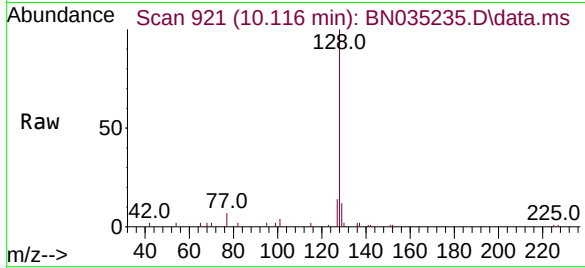
#9
Naphthalene
Concen: 0.392 ng
RT: 10.116 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 7849
Ion Ratio Lower Upper
128 100
129 11.9 9.6 14.4
127 14.5 11.6 17.4

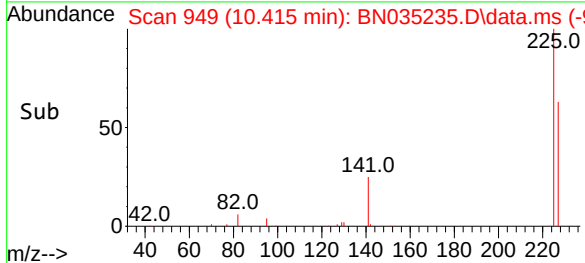
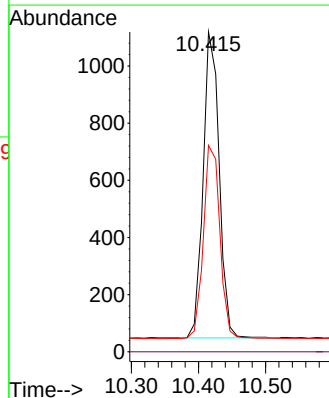
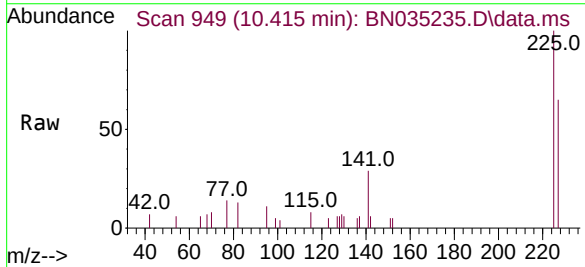
Manual Integrations
APPROVED

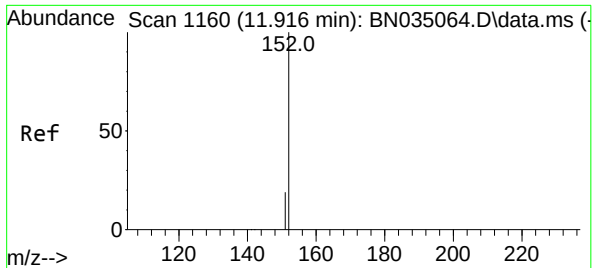
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

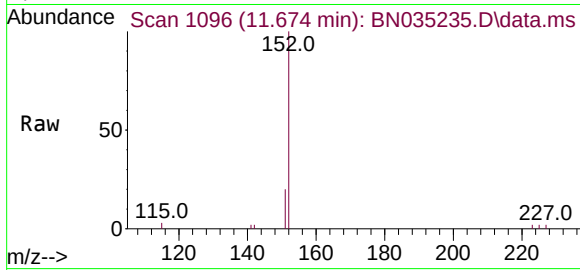
Tgt Ion:225 Resp: 1778
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.5 51.5 77.3





#11
2-Methylnaphthalene-d10
Concen: 0.326 ng
RT: 11.674 min Scan# 1106
Delta R.T. -0.004 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

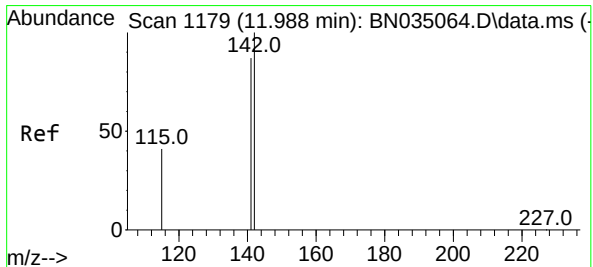
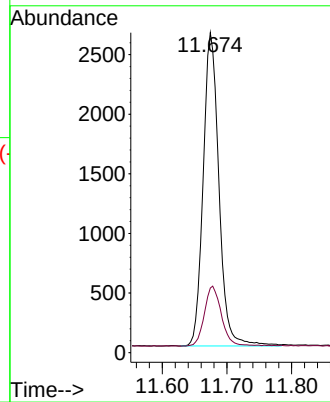
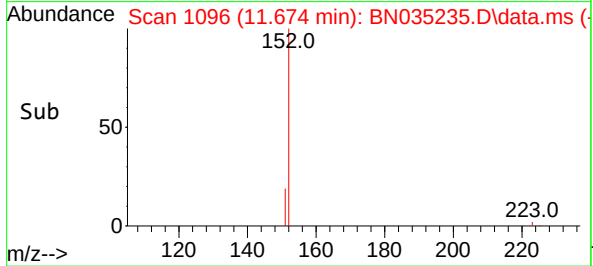
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



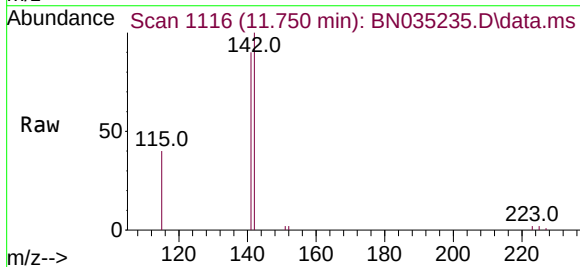
Tgt Ion:152 Resp: 445
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

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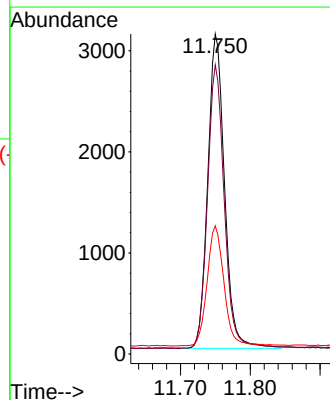
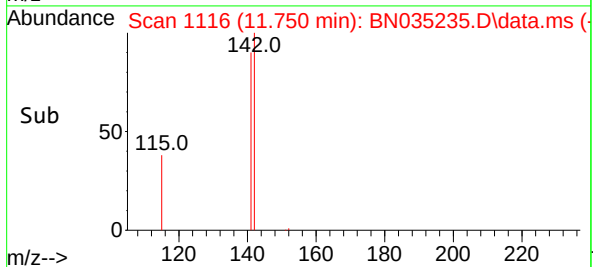
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

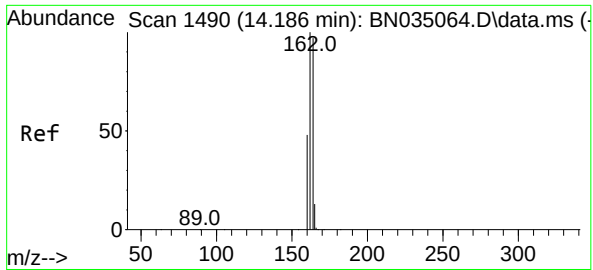


#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.750 min Scan# 1116
Delta R.T. -0.004 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01



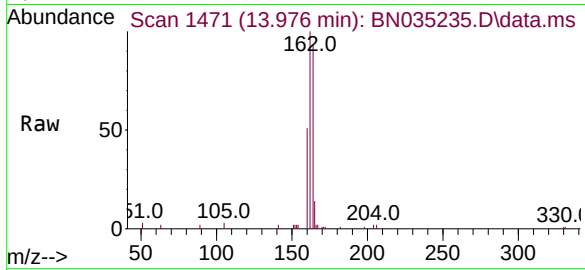
Tgt Ion:142 Resp: 5199
Ion Ratio Lower Upper
142 100
141 90.4 70.1 105.1
115 40.1 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

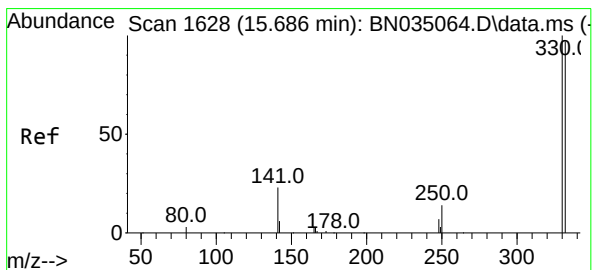
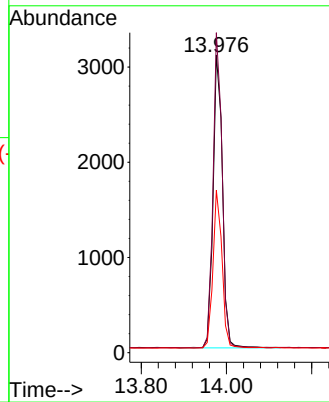
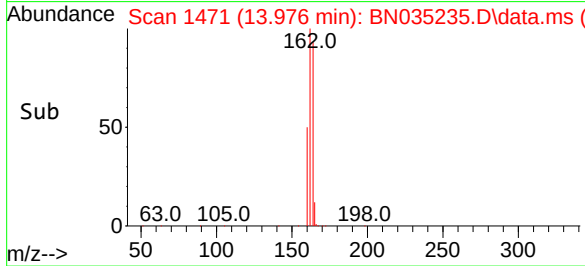
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



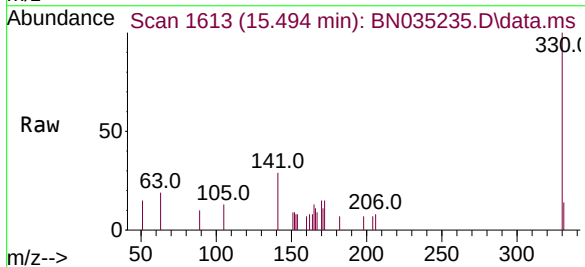
Tgt Ion:164 Resp: 4700
Ion Ratio Lower Upper
164 100
162 107.5 82.2 123.2
160 54.6 40.2 60.4

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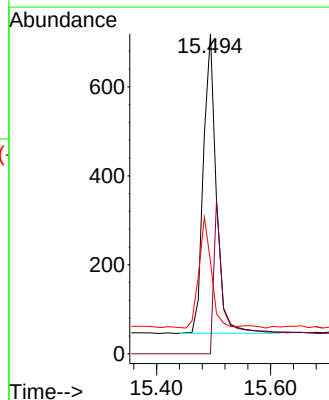
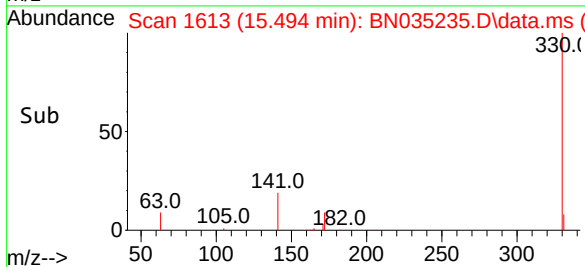
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

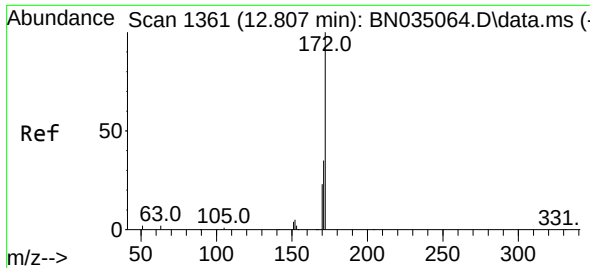


#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01



Tgt Ion:330 Resp: 1140
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 34.2 29.6 44.4





#15
2-Fluorobiphenyl
Concen: 0.063 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

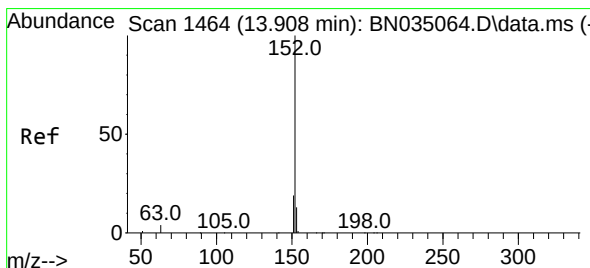
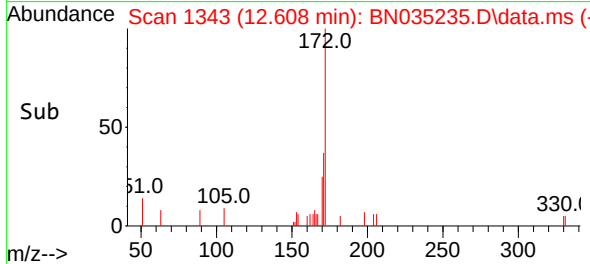
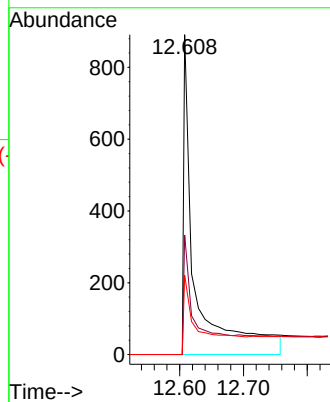
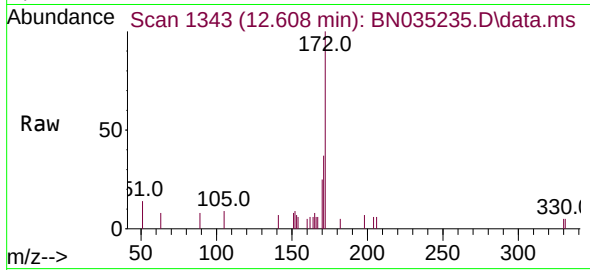
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.4	28.2	42.4
170	24.8	19.0	28.6

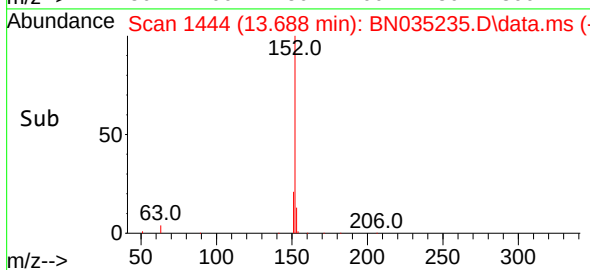
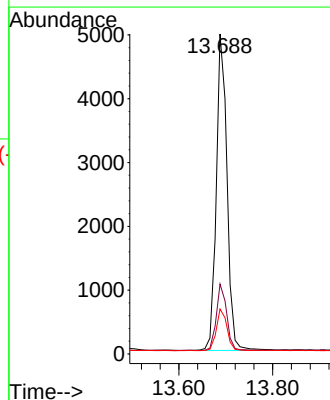
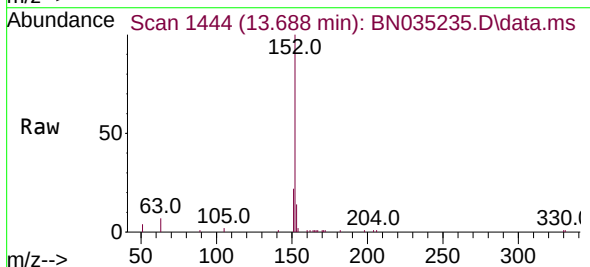
Manual Integrations
APPROVED

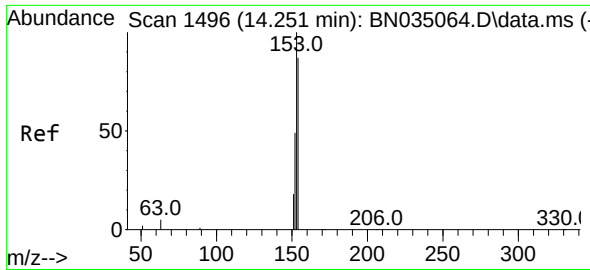
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#16
Acenaphthylene
Concen: 0.392 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

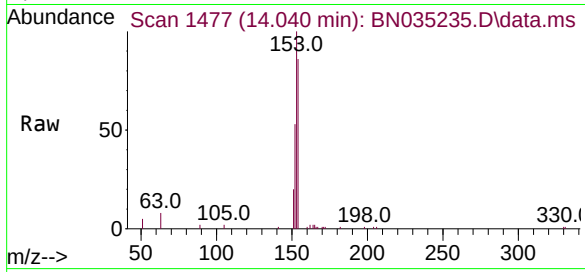
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.8
153	13.3	10.2	15.4





#17
Acenaphthene
Concen: 0.383 ng
RT: 14.040 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

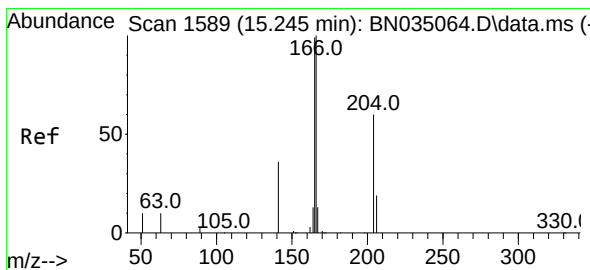
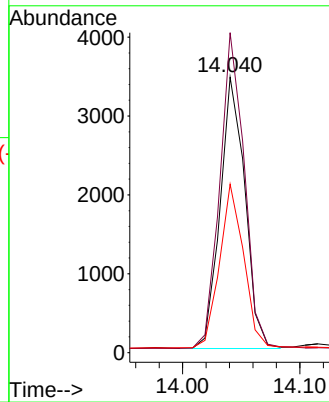
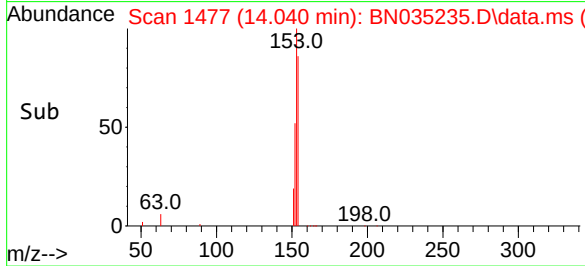
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 5040
Ion Ratio Lower Upper
154 100
153 115.6 91.6 137.4
152 59.8 45.8 68.6

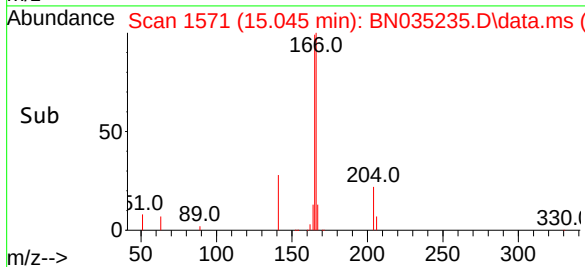
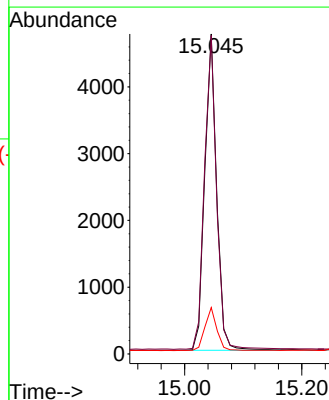
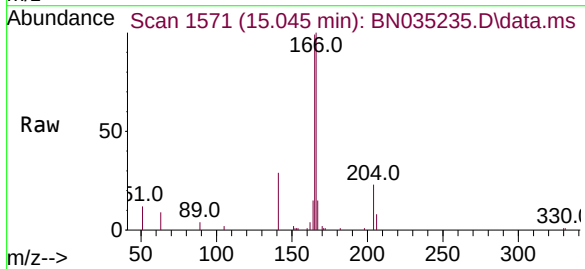
Manual Integrations
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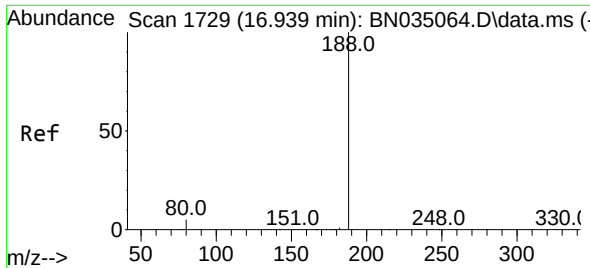
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#18
Fluorene
Concen: 0.346 ng
RT: 15.045 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

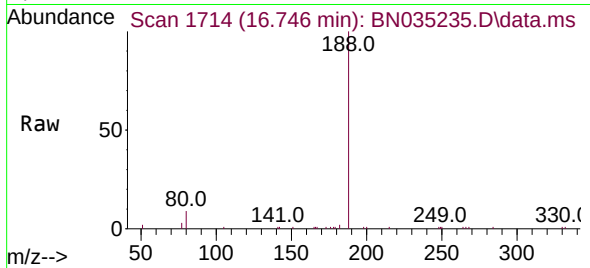
Tgt Ion:166 Resp: 6711
Ion Ratio Lower Upper
166 100
165 100.4 79.1 118.7
167 13.8 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

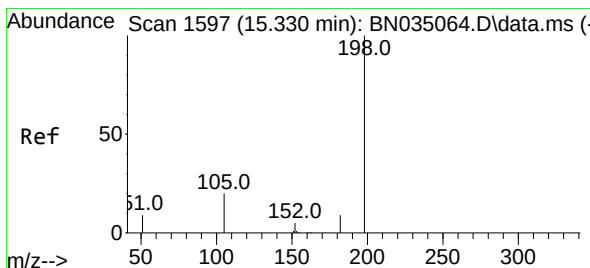
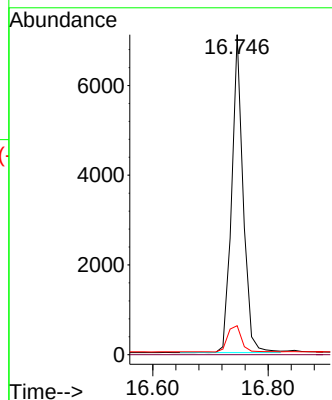
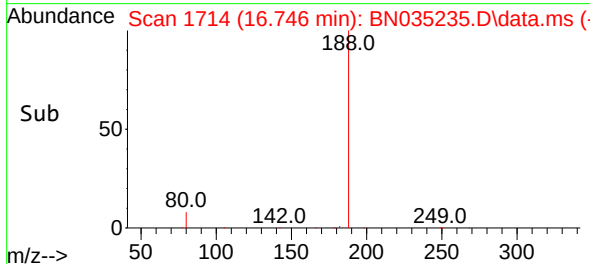
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:188 Resp: 978
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.1 4.3 6.5

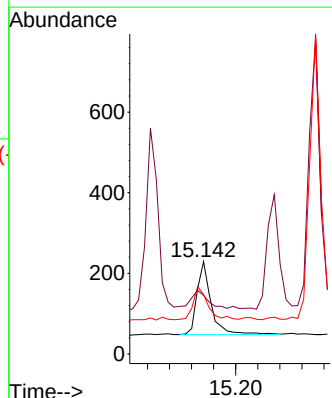
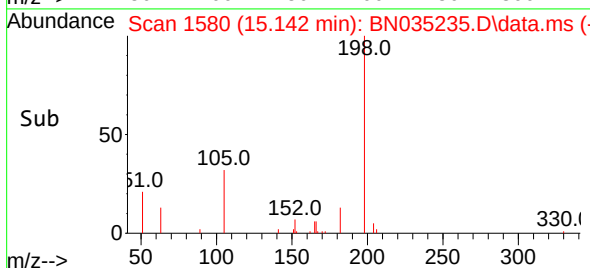
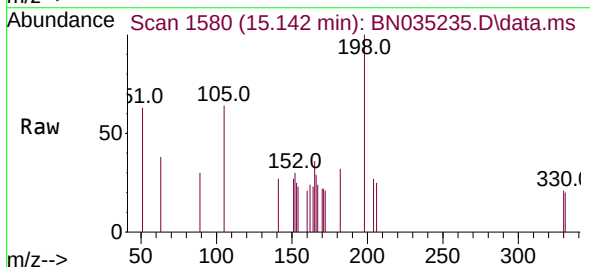
Manual Integrations
APPROVED

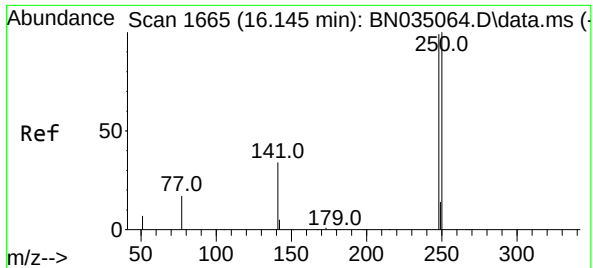
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 0.158 ng
RT: 15.142 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:198 Resp: 322
Ion Ratio Lower Upper
198 100
51 63.3 29.9 44.9#
105 64.2 23.7 35.5#





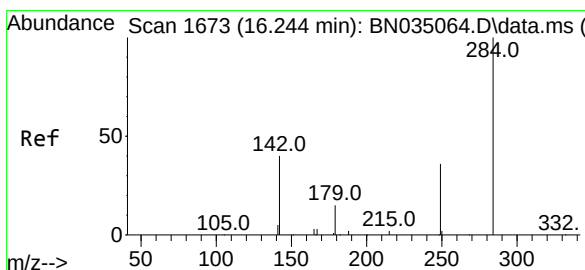
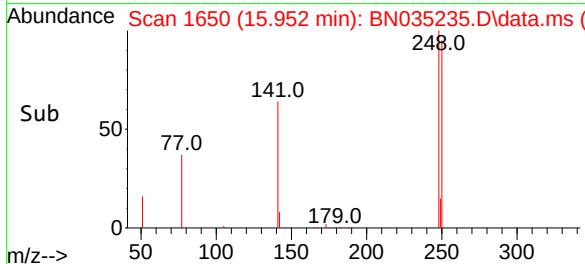
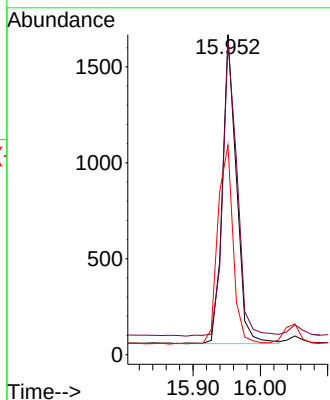
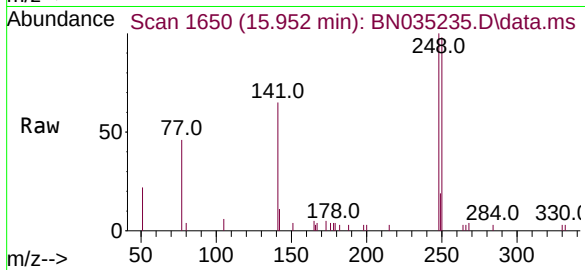
#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 15.952 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2324
Ion Ratio Lower Upper
248 100
250 97.8 81.2 121.8
141 65.5 29.1 43.7

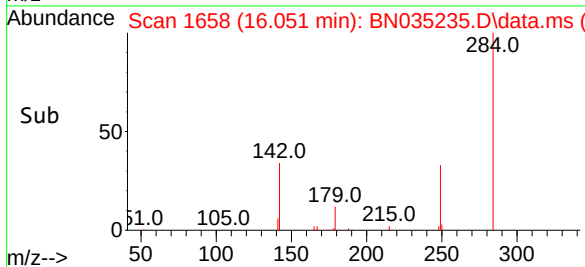
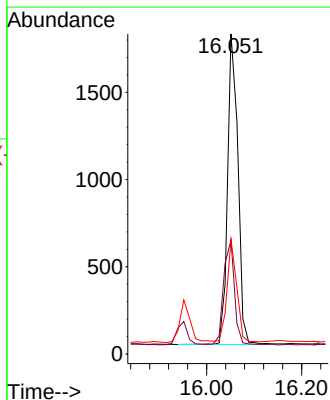
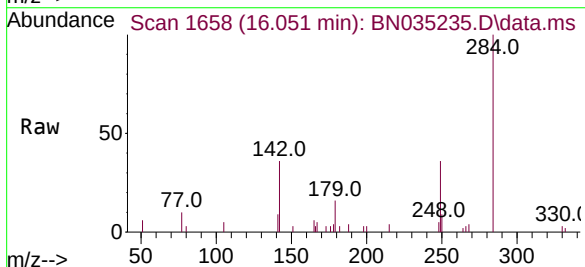
Manual Integrations
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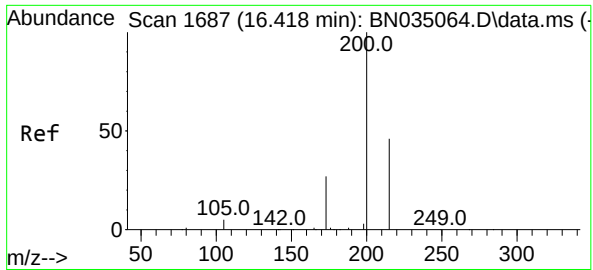
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

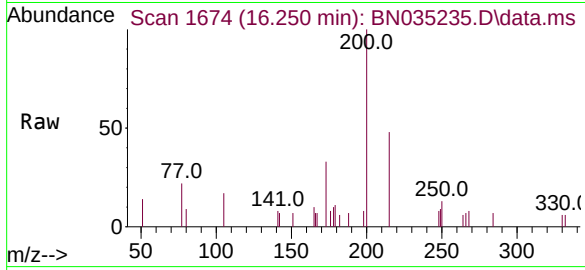
Tgt Ion:284 Resp: 2690
Ion Ratio Lower Upper
284 100
142 35.7 28.2 42.4
249 30.9 26.2 39.2





#23
Atrazine
Concen: 0.225 ng
RT: 16.250 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

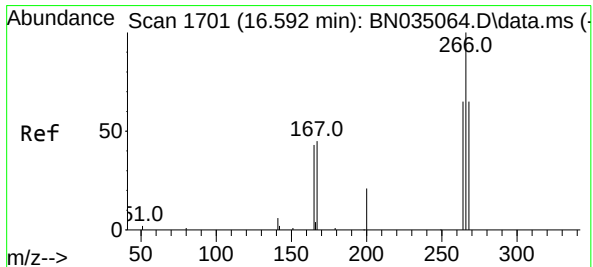
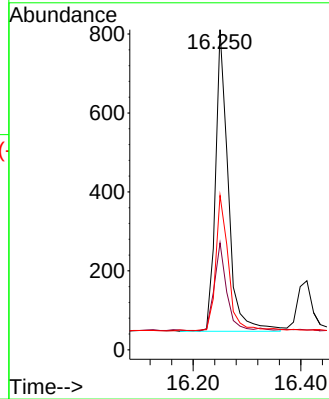
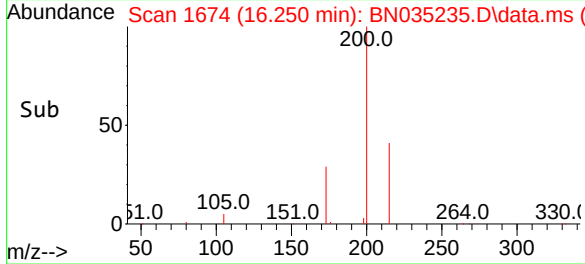
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:200 Resp: 1260
Ion Ratio Lower Upper
200 100
173 33.4 22.6 33.8
215 48.2 37.8 56.6

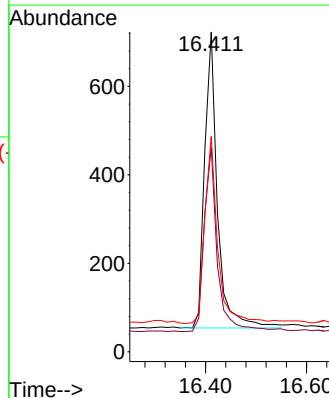
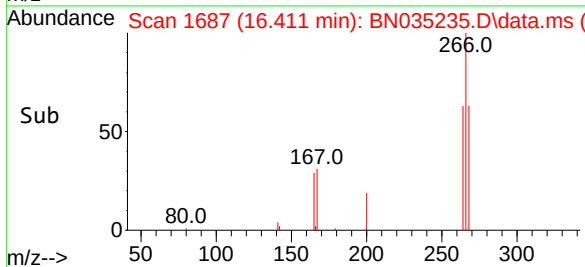
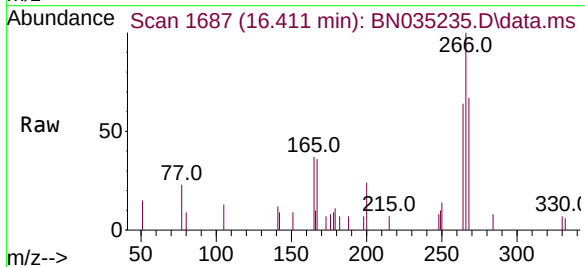
Manual Integrations
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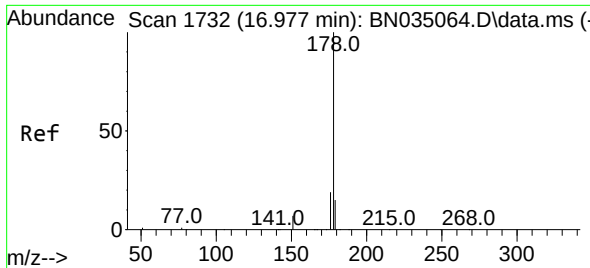
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#24
Pentachlorophenol
Concen: 0.393 ng
RT: 16.411 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

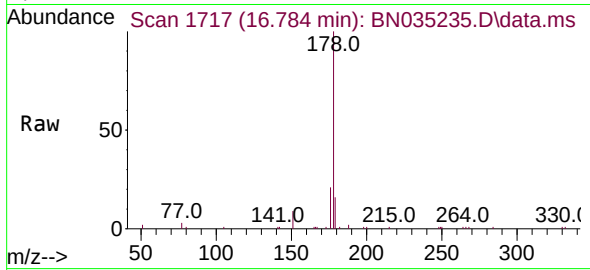
Tgt Ion:266 Resp: 1189
Ion Ratio Lower Upper
266 100
264 63.5 49.4 74.0
268 63.4 52.6 79.0





#25
Phenanthrene
Concen: 0.403 ng
RT: 16.784 min Scan# 1725
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

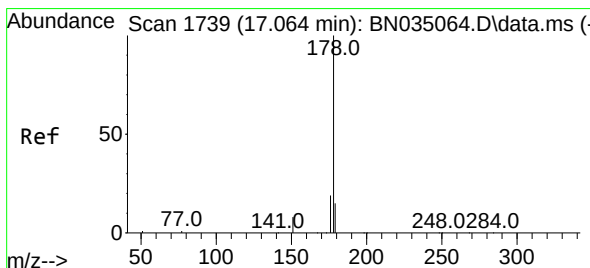
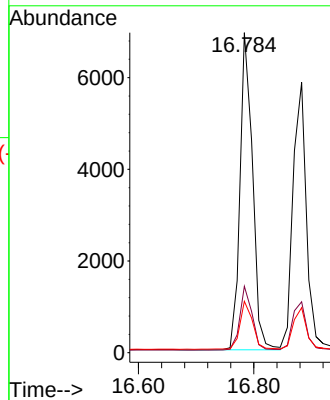
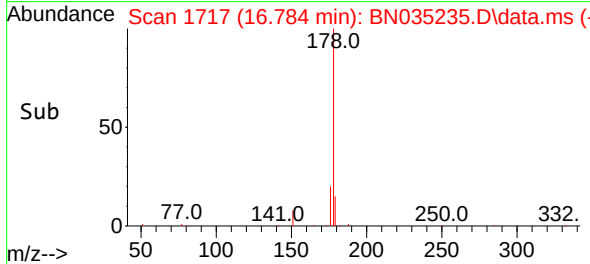
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 10390
Ion Ratio Lower Upper
178 100
176 19.8 15.2 22.8
179 15.6 12.6 18.8

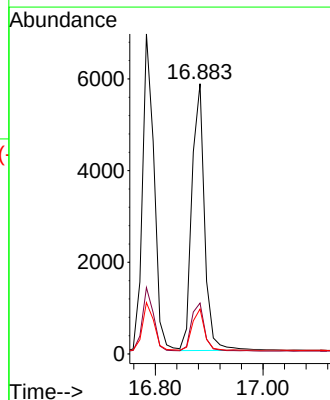
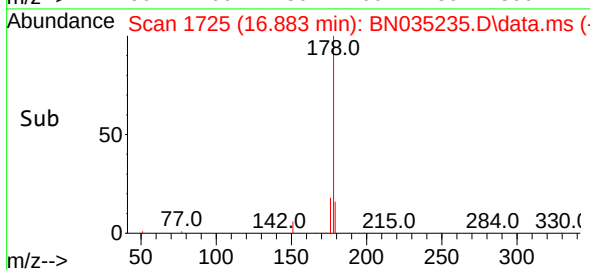
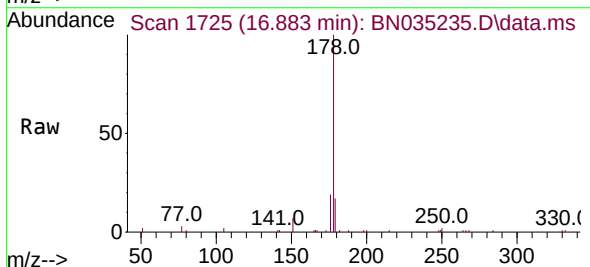
Manual Integrations
APPROVED

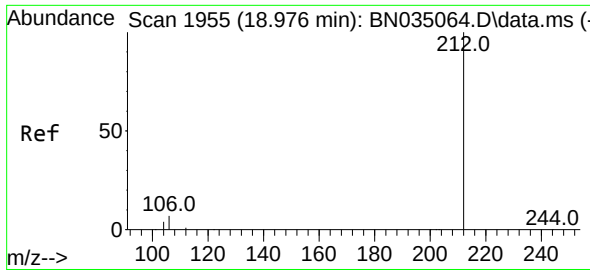
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#26
Anthracene
Concen: 0.403 ng
RT: 16.883 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

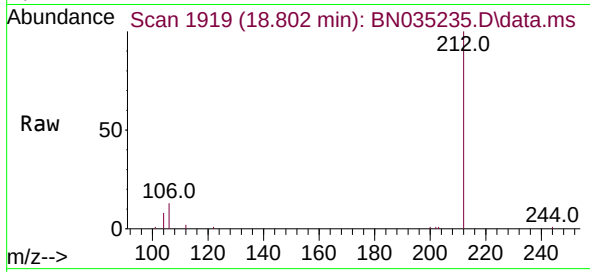
Tgt Ion:178 Resp: 9521
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.2 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.322 ng
RT: 18.802 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

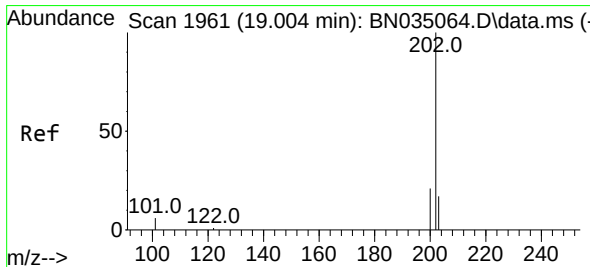
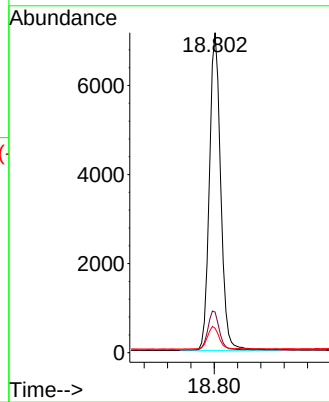
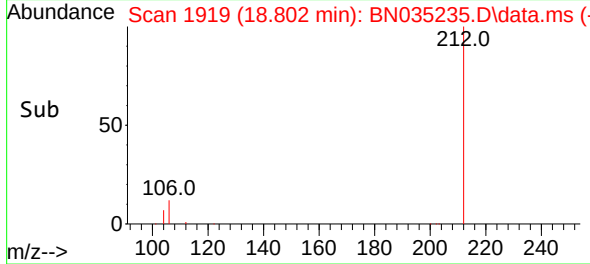
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



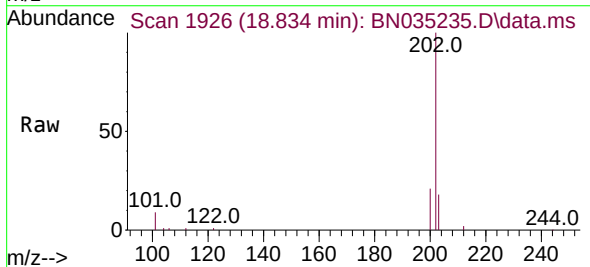
Tgt Ion:212 Resp: 965
Ion Ratio Lower Upper
212 100
106 12.4 6.0 9.0#
104 7.3 3.5 5.3#

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APPROVED

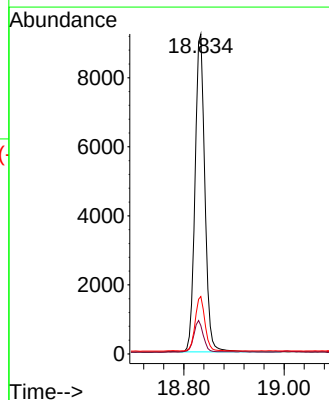
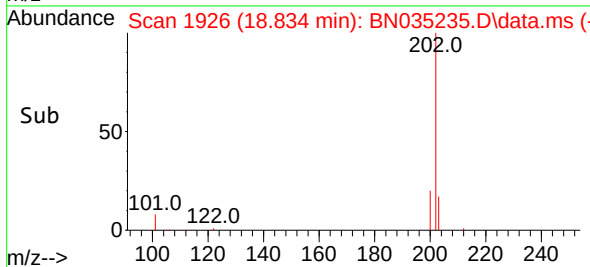
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

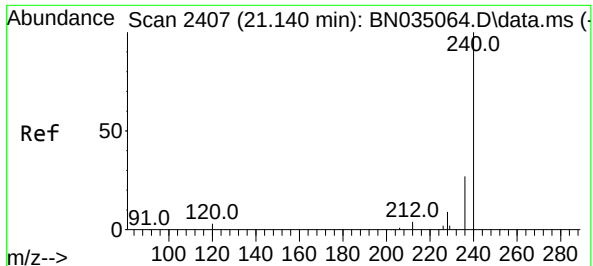


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.834 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01



Tgt Ion:202 Resp: 12485
Ion Ratio Lower Upper
202 100
101 9.9 5.2 7.8#
203 17.0 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

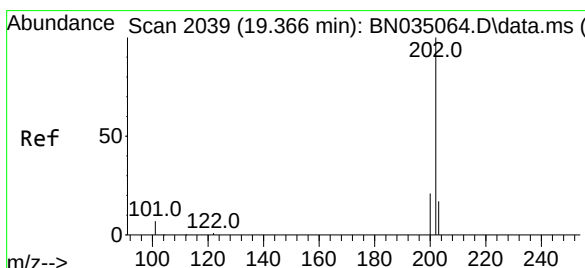
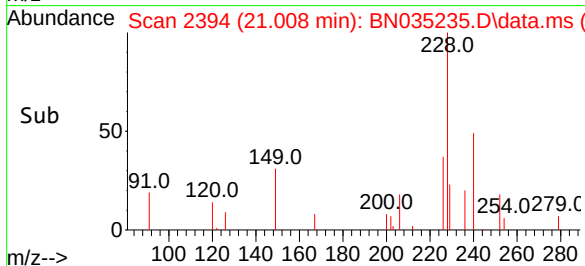
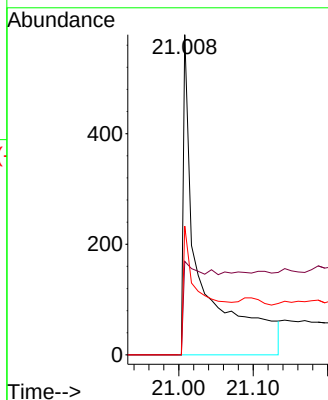
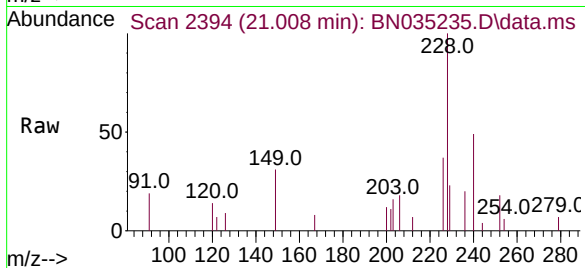
Tgt Ion:240	Resp:	924
Ion Ratio	Lower	Upper
240	100	
120	29.2	3.8 5.6
236	40.2	22.2 33.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#30

Pyrene

Concen: 4.164 ng

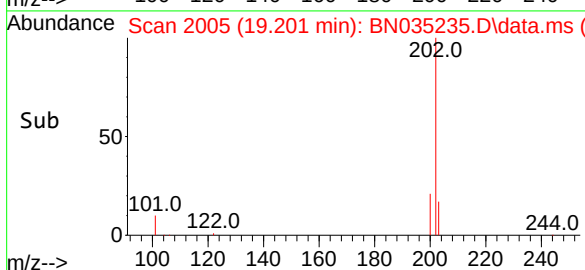
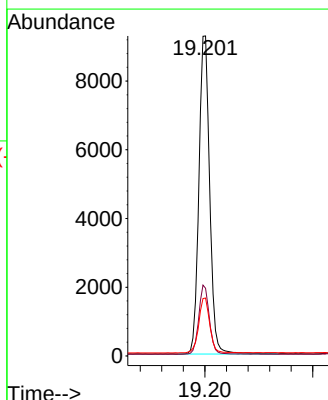
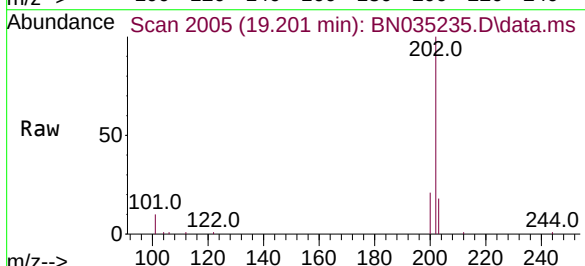
RT: 19.201 min Scan# 2005

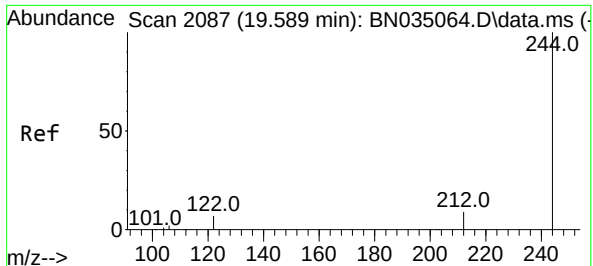
Delta R.T. -0.005 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Tgt Ion:202	Resp:	12814
Ion Ratio	Lower	Upper
202	100	
200	21.3	16.7 25.1
203	17.7	14.2 21.4





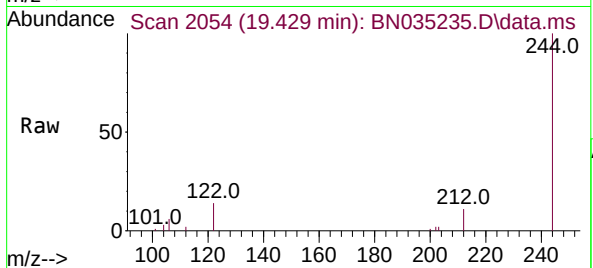
#31
Terphenyl-d14
Concen: 3.268 ng
RT: 19.429 min Scan# 2087
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

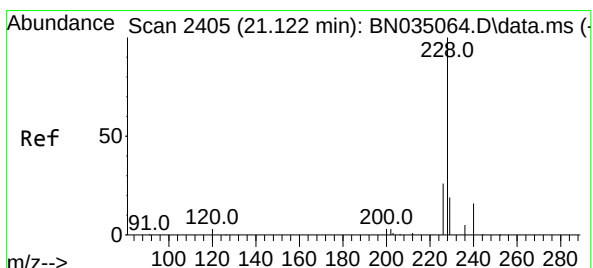
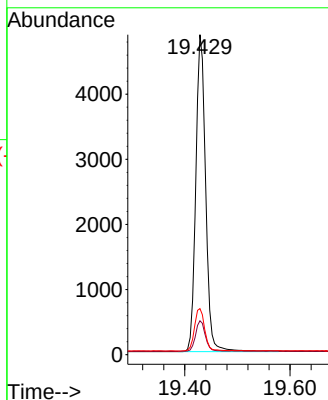
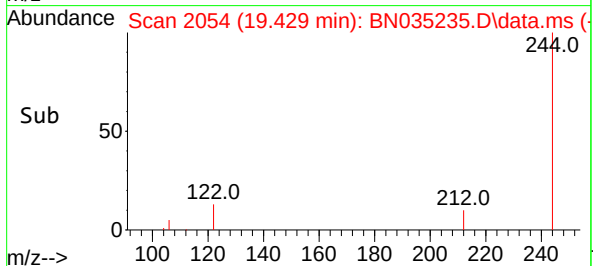
SSTDCCC0.4EC



Tgt Ion:244 Resp: 6330
Ion Ratio Lower Upper
244 100
212 10.6 7.6 11.4
122 14.4 6.1 9.1

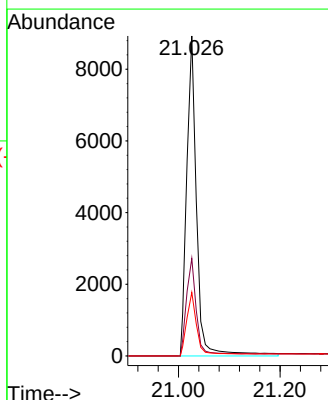
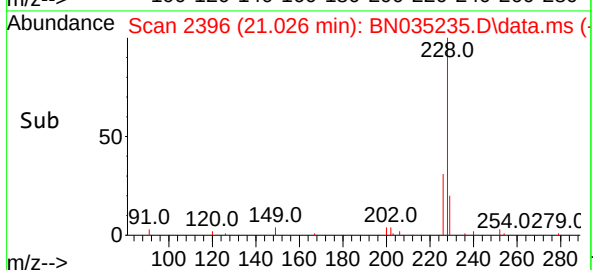
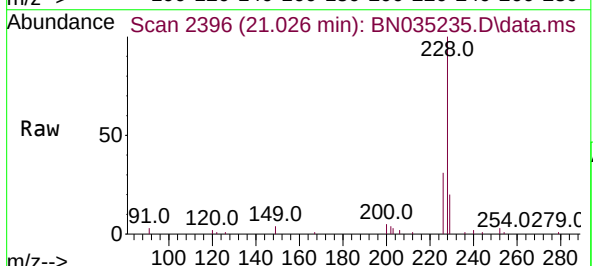
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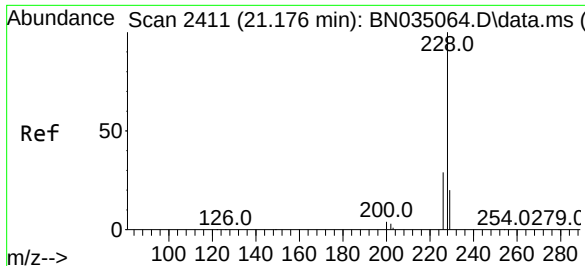
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#32
Benzo(a)anthracene
Concen: 3.650 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:228 Resp: 11745
Ion Ratio Lower Upper
228 100
226 30.5 21.4 32.0
229 19.8 15.7 23.5





#33

Chrysene

Concen: 3.685 ng

RT: 21.026 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:228 Resp: 1174

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

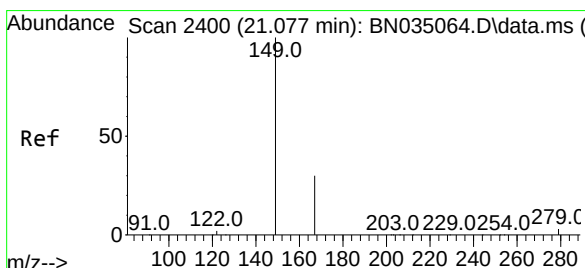
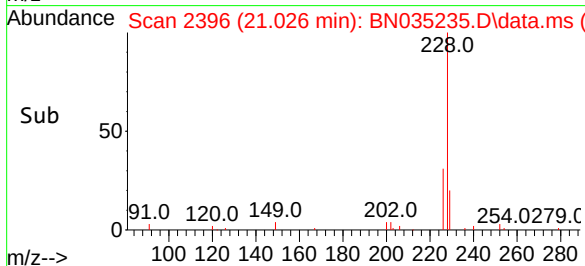
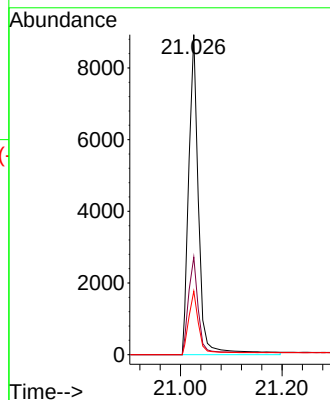
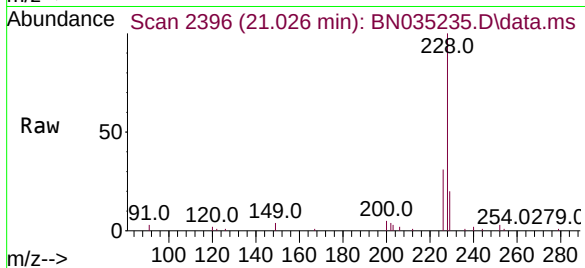
229 19.8 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.616 ng

RT: 21.026 min Scan# 2396

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

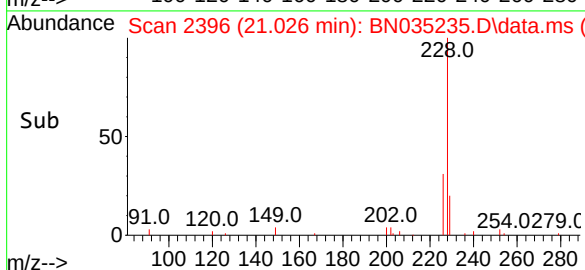
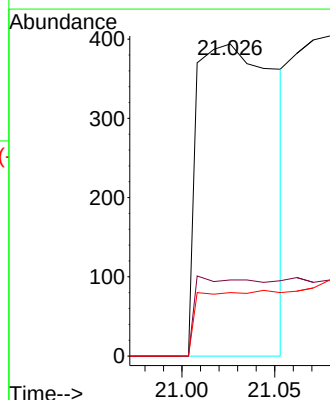
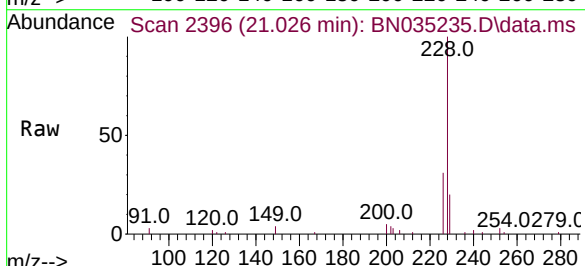
Tgt Ion:149 Resp: 1040

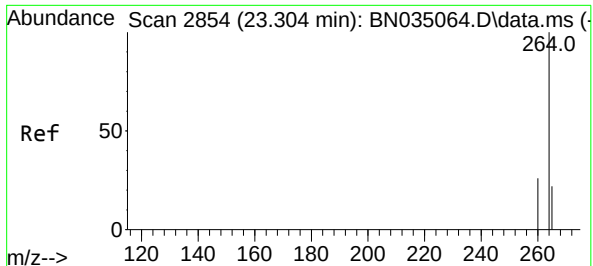
Ion Ratio Lower Upper

149 100

167 20.9 23.2 34.8#

279 0.0 3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.092 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035235.D

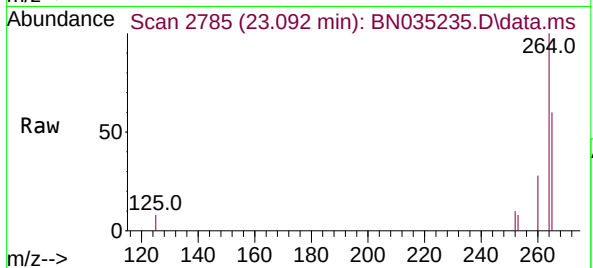
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:264 Resp: 878

Ion Ratio Lower Upper

264 100

260 27.6 20.9 31.3

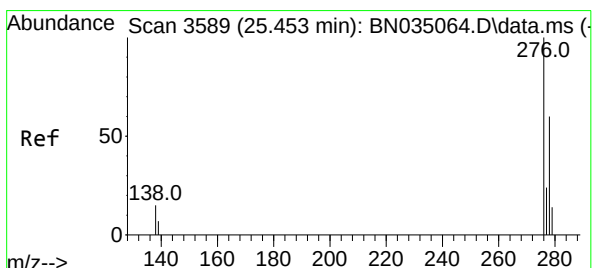
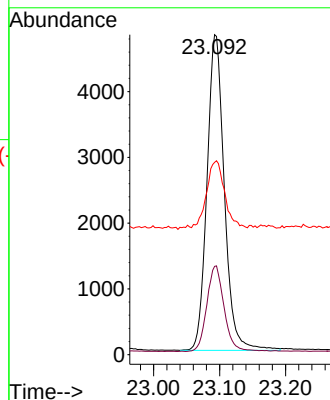
265 60.1 35.4 53.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.389 ng

RT: 25.145 min Scan# 3487

Delta R.T. -0.012 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

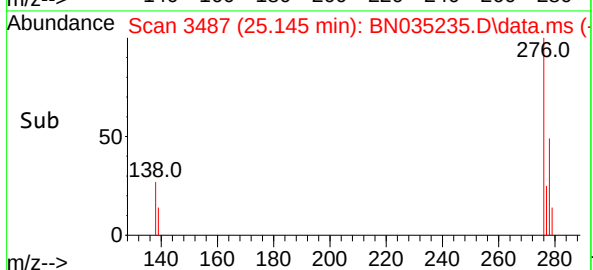
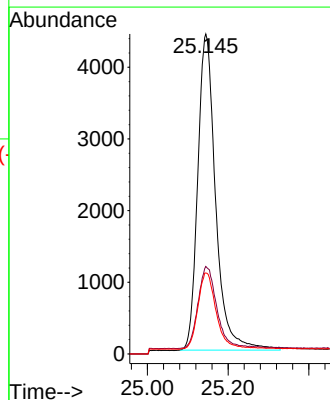
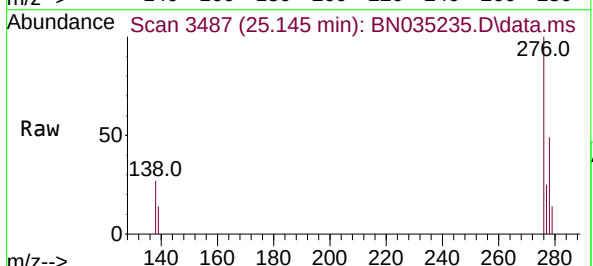
Tgt Ion:276 Resp: 13630

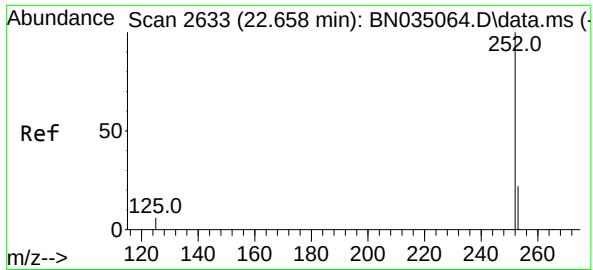
Ion Ratio Lower Upper

276 100

138 26.1 13.0 19.4#

277 23.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.391 ng

RT: 22.475 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

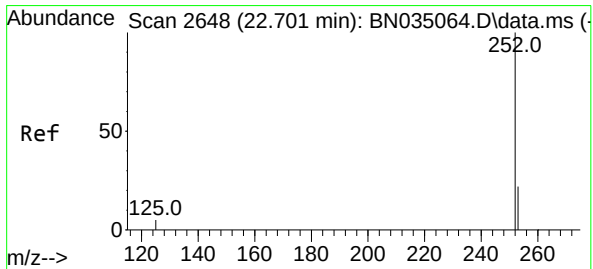
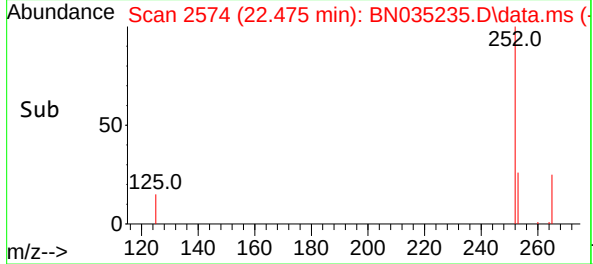
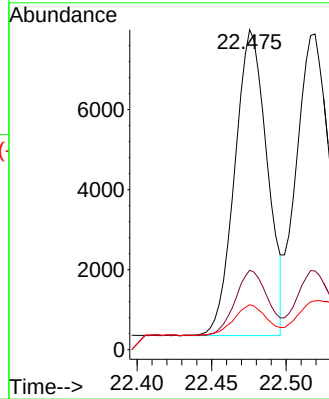
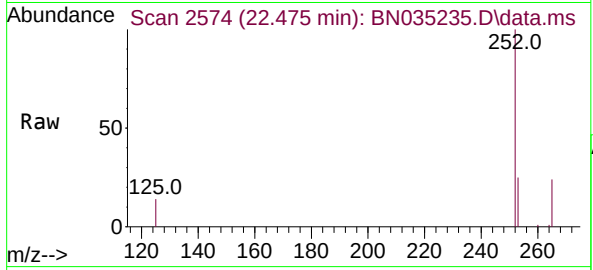
Tgt Ion:252	Resp:	1155
Ion Ratio	Lower	Upper
252	100	
253	24.8	19.3 28.9
125	14.0	6.2 9.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#38

Benzo(k)fluoranthene

Concen: 0.403 ng

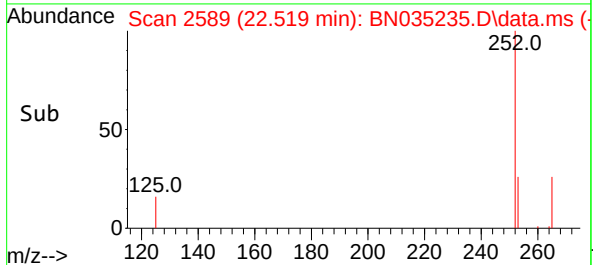
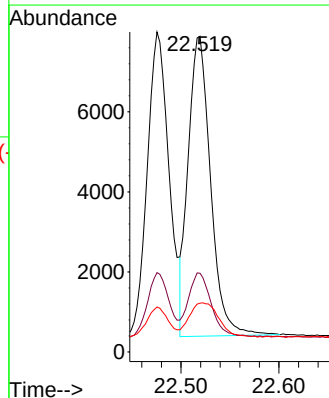
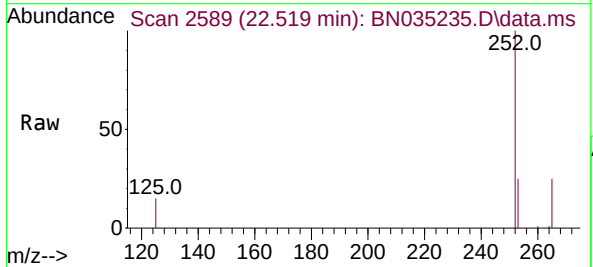
RT: 22.519 min Scan# 2589

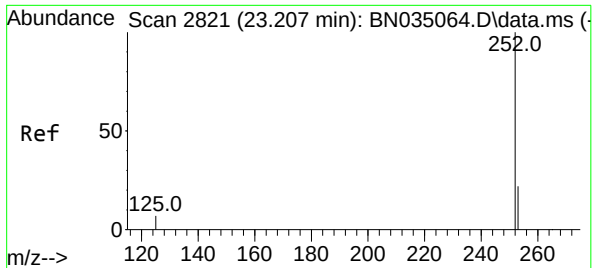
Delta R.T. -0.009 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

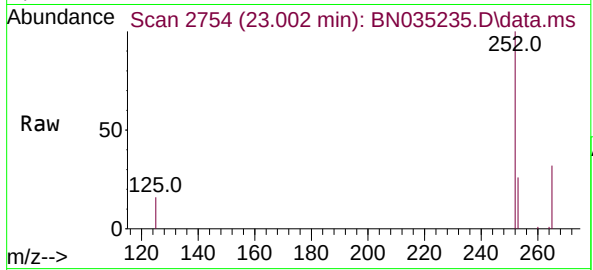
Tgt Ion:252	Resp:	11920
Ion Ratio	Lower	Upper
252	100	
253	25.0	19.5 29.3
125	15.4	6.5 9.7





#39
Benzo(a)pyrene
Concen: 0.396 ng
RT: 23.002 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

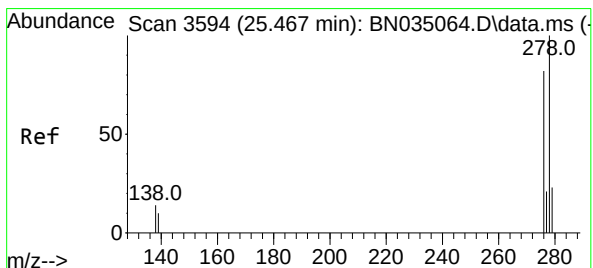
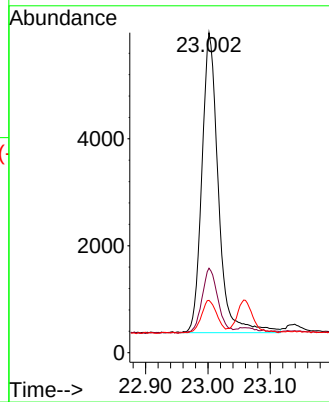
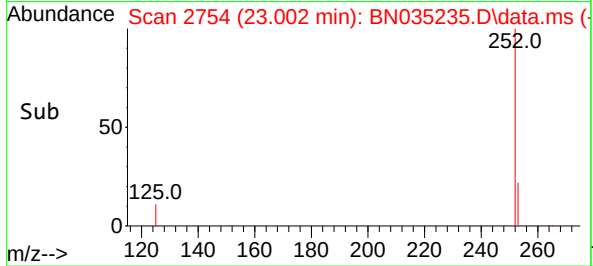
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:252 Resp: 10290
Ion Ratio Lower Upper
252 100
253 26.4 20.1 30.1
125 16.3 7.5 11.3

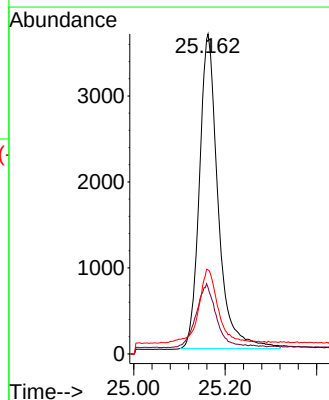
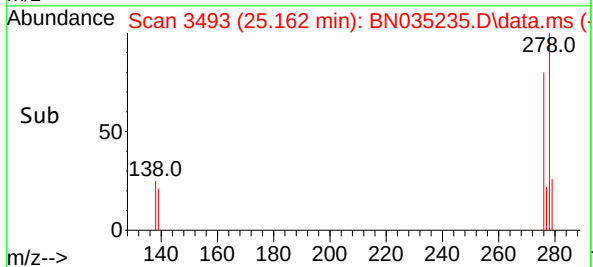
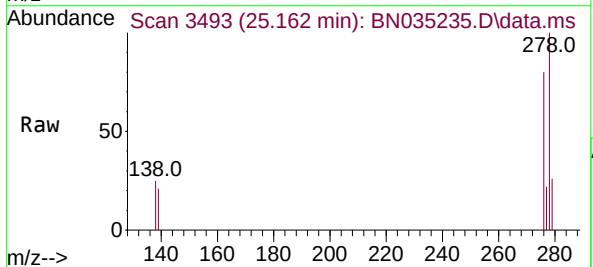
Manual Integrations
APPROVED

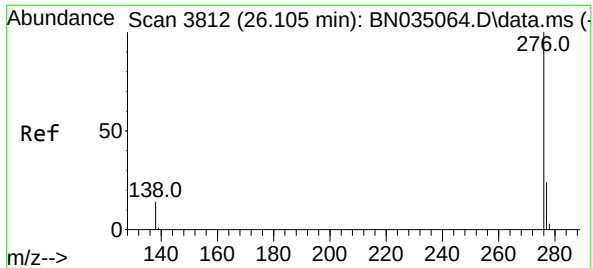
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.373 ng
RT: 25.162 min Scan# 3493
Delta R.T. -0.015 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:278 Resp: 10355
Ion Ratio Lower Upper
278 100
139 20.7 9.3 13.9#
279 26.2 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 25.762 min Scan# 30

Delta R.T. -0.015 min

Lab File: BN035235.D

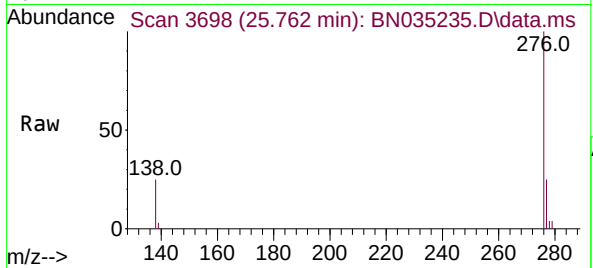
Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 11294

Ion Ratio Lower Upper

276 100

277 24.5 19.9 29.9

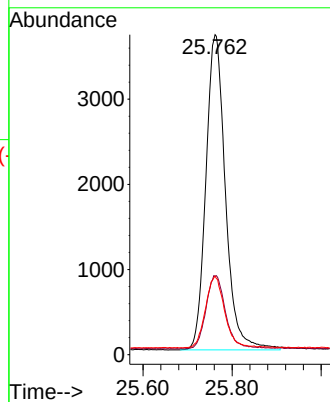
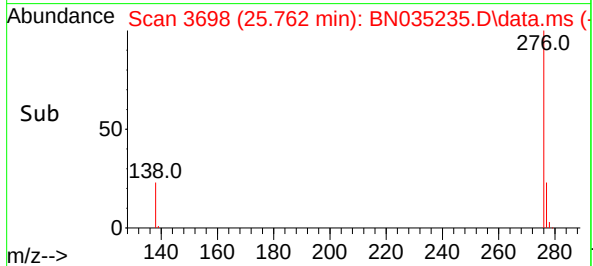
138 24.5 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035235.D
Acq On : 21 Nov 2024 23:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 21 23:33:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN11324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 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	119	0.00
2	1,4-Dioxane	0.363	0.381	-5.0	136	0.00
3	n-Nitrosodimethylamine	0.339	0.297	12.4	109	0.00
4 S	2-Fluorophenol	1.015	1.087	-7.1	137	0.00
5 S	Phenol-d6	1.273	1.273	0.0	131	0.00
6	bis(2-Chloroethyl)ether	0.956	0.962	-0.6	129	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	112	0.00
8 S	Nitrobenzene-d5	0.348	0.189	45.7#	66	0.00
9	Naphthalene	1.044	1.023	2.0	117	-0.01
10	Hexachlorobutadiene	0.306	0.232	24.2	88	-0.01
11 SURR	2-Methylnaphthalene-d10	0.713	0.581	18.5	98	0.00
12	2-Methylnaphthalene	0.770	0.677	12.1	106	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.01
14 S	2,4,6-Tribromophenol	0.289	0.242	16.3	88	0.00
15 S	2-Fluorobiphenyl	1.624	0.255	84.3#	15#	0.00
16	Acenaphthylene	1.709	1.674	2.0	98	-0.01
17	Acenaphthene	1.120	1.072	4.3	93	-0.01
18	Fluorene	1.648	1.426	13.5	85	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.033	60.2#	33#	0.00
21	4-Bromophenyl-phenylether	0.255	0.238	6.7	70	0.00
22	Hexachlorobenzene	0.264	0.275	-4.2	79	-0.01
23	Atrazine	0.229	0.129	43.7#	43#	0.00
24	Pentachlorophenol	0.124	0.122	1.6	85	0.00
25	Phenanthrene	1.053	1.062	-0.9	77	-0.01
26	Anthracene	0.967	0.973	-0.6	77	0.00
27 SURR	Fluoranthene-d10	1.225	0.987	19.4	61	0.00
28	Fluoranthene	1.448	1.276	11.9	67	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	6#	0.00
30	Pyrene	1.332	13.868	-941.1#	67	0.00
31 S	Terphenyl-d14	0.839	6.857	-717.3#	52	0.00
32	Benzo(a)anthracene	1.393	12.711	-812.5#	59	0.00
33	Chrysene	1.380	12.711	-821.1#	59	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	1.126	-54.0#	11#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	51	-0.01
36	Indeno(1,2,3-cd)pyrene	1.596	1.552	2.8	52	-0.01
37	Benzo(b)fluoranthene	1.346	1.315	2.3	53	-0.01
38	Benzo(k)fluoranthene	1.347	1.357	-0.7	54	0.00
39 C	Benzo(a)pyrene	1.184	1.172	1.0	54	-0.01
40	Dibenzo(a,h)anthracene	1.264	1.179	6.7	50	-0.01
41	Benzo(g,h,i)perylene	1.345	1.286	4.4	51	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035235.D
Acq On : 21 Nov 2024 23:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 21 23:33:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN11324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 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	119	0.00
2	1,4-Dioxane	0.400	0.419	-4.7	136	0.00
3	n-Nitrosodimethylamine	0.400	0.351	12.3	109	0.00
4 S	2-Fluorophenol	0.400	0.428	-7.0	137	0.00
5 S	Phenol-d6	0.400	0.400	0.0	131	0.00
6	bis(2-Chloroethyl)ether	0.400	0.403	-0.8	129	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	112	0.00
8 S	Nitrobenzene-d5	0.400	0.217	45.8#	66	0.00
9	Naphthalene	0.400	0.392	2.0	117	-0.01
10	Hexachlorobutadiene	0.400	0.303	24.3	88	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.326	18.5	98	0.00
12	2-Methylnaphthalene	0.400	0.352	12.0	106	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	87	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.336	16.0	88	0.00
15 S	2-Fluorobiphenyl	0.400	0.063	84.3#	15	0.00
16	Acenaphthylene	0.400	0.392	2.0	98	-0.01
17	Acenaphthene	0.400	0.383	4.3	93	-0.01
18	Fluorene	0.400	0.346	13.5	85	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	72	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.158	60.5#	33	0.00
21	4-Bromophenyl-phenylether	0.400	0.373	6.8	70	0.00
22	Hexachlorobenzene	0.400	0.416	-4.0	79	-0.01
23	Atrazine	0.400	0.225	43.8#	43	0.00
24	Pentachlorophenol	0.400	0.393	1.8	85	0.00
25	Phenanthrene	0.400	0.403	-0.8	77	-0.01
26	Anthracene	0.400	0.403	-0.8	77	0.00
27 SURR	Fluoranthene-d10	0.400	0.322	19.5	61	0.00
28	Fluoranthene	0.400	0.353	11.8	67	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	6	0.00
30	Pyrene	0.400	4.164	-941.0#	67	0.00
31 S	Terphenyl-d14	0.400	3.268	-717.0#	52	0.00
32	Benzo(a)anthracene	0.400	3.650	-812.5#	59	0.00
33	Chrysene	0.400	3.685	-821.3#	59	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.616	-54.0#	11	0.00
35 I	Perylene-d12	0.400	0.400	0.0	51	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	52	-0.01
37	Benzo(b)fluoranthene	0.400	0.391	2.3	53	-0.01
38	Benzo(k)fluoranthene	0.400	0.403	-0.8	54	0.00
39 C	Benzo(a)pyrene	0.400	0.396	1.0	54	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.373	6.8	50	-0.01
41	Benzo(g,h,i)perylene	0.400	0.382	4.5	51	-0.01

(#) = Out of Range

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



QC SAMPLE DATA

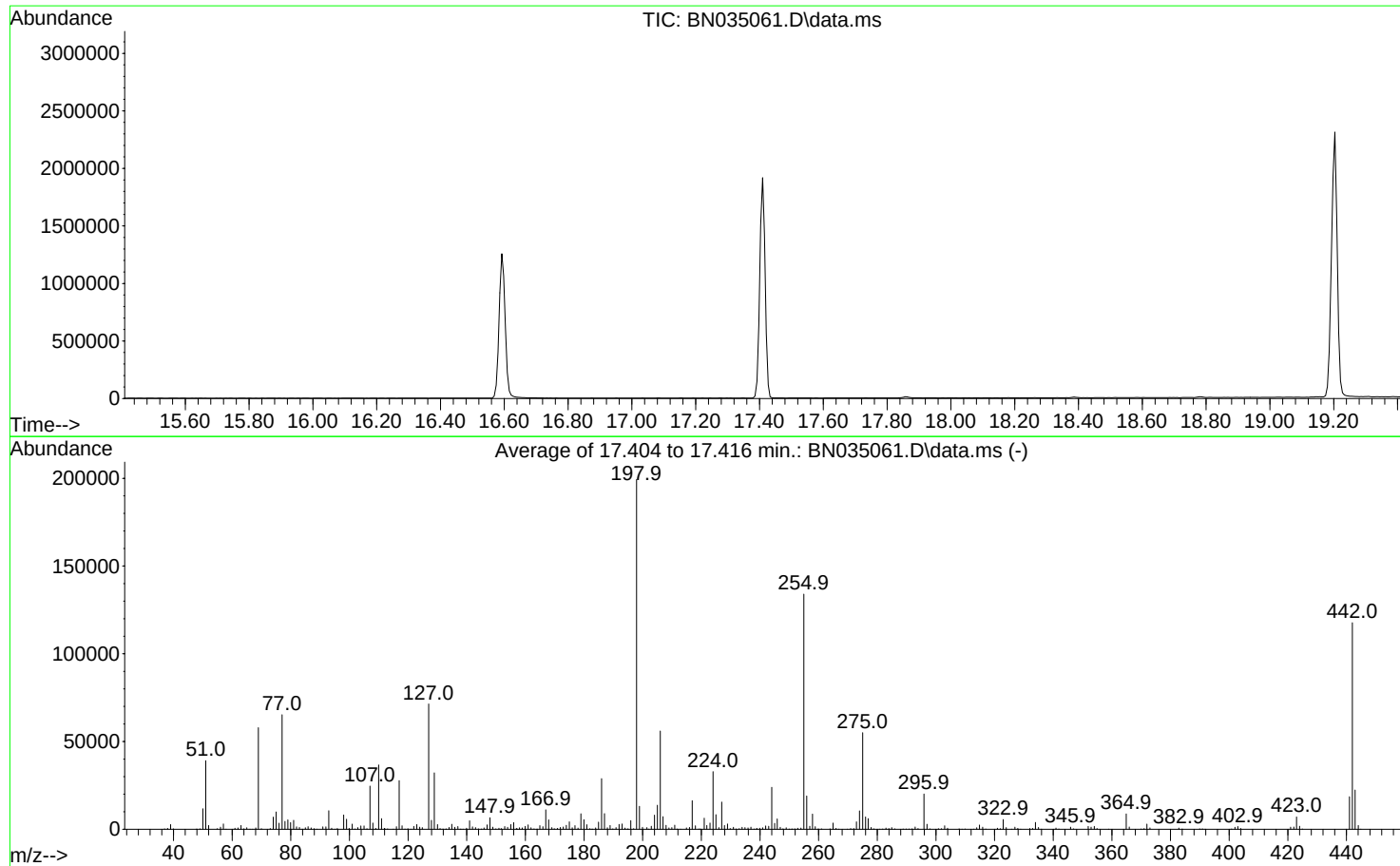
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
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-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024



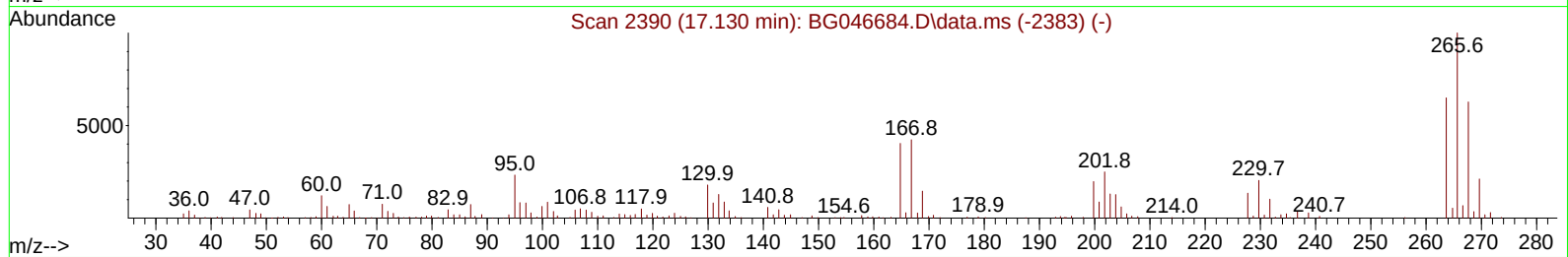
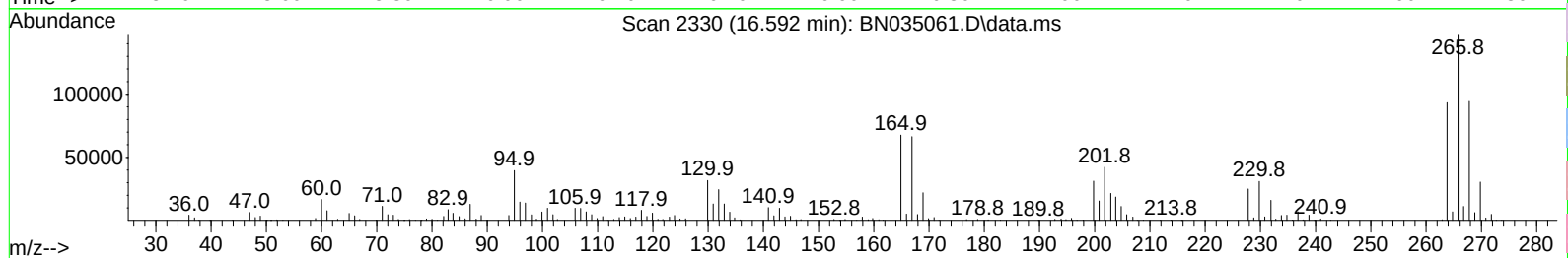
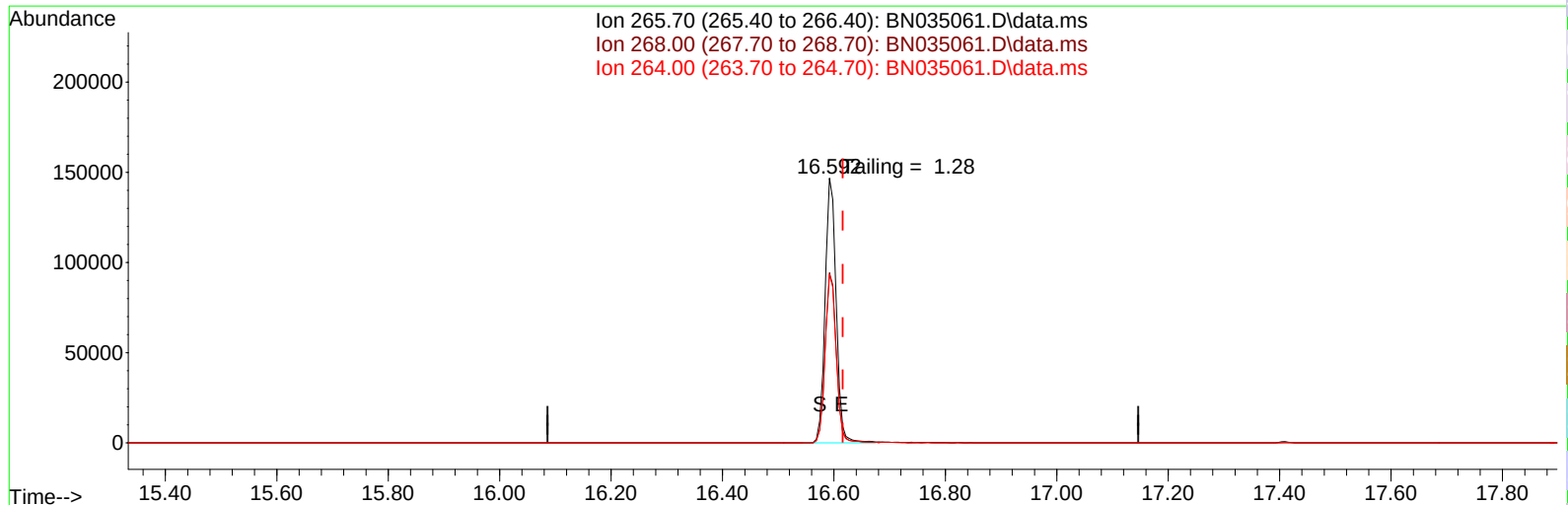
AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2461

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	19.6	39078	PASS
68	69	0.00	2	1.4	807	PASS
69	198	0.00	100	29.1	57928	PASS
70	69	0.00	2	0.7	382	PASS
127	198	10	80	35.9	71451	PASS
197	198	0.00	2	0.2	365	PASS
198	198	100	100	100.0	199275	PASS
199	198	5	9	6.6	13094	PASS
275	198	10	60	27.6	55048	PASS
365	198	1	100	4.4	8801	PASS
441	198	0.01	100	9.3	18540	PASS
442	442	50	100	100.0	117725	PASS
443	442	15	24	19.0	22395	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 14 15:14:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 09 04:05:27 2024
Response via : Initial Calibration



TIC: BN035061.D\data.ms

(70) Pentachlorophenol (C)

16.592min (-0.024) 20966.65 ng

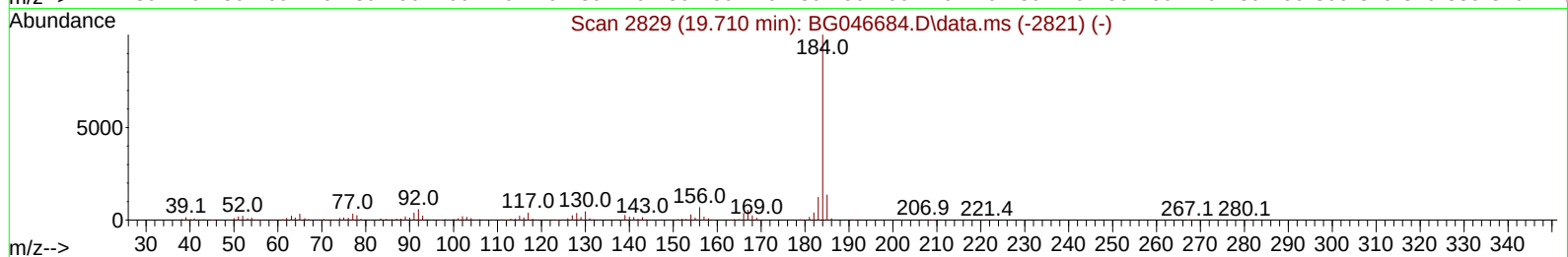
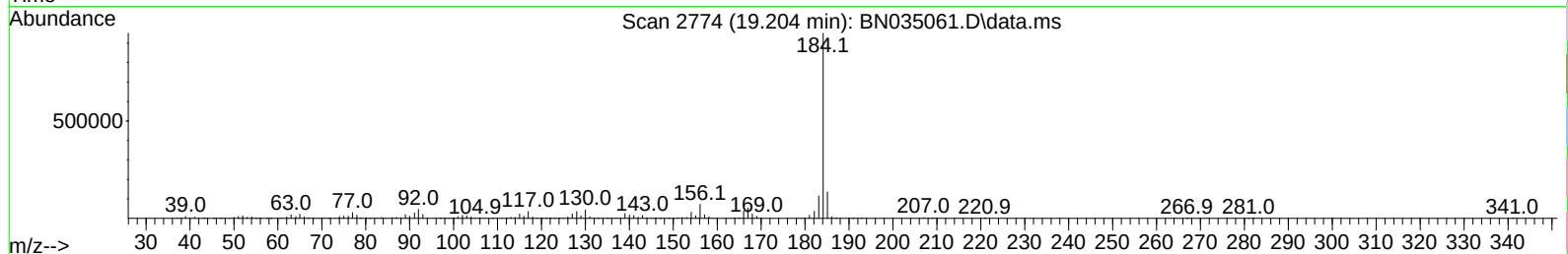
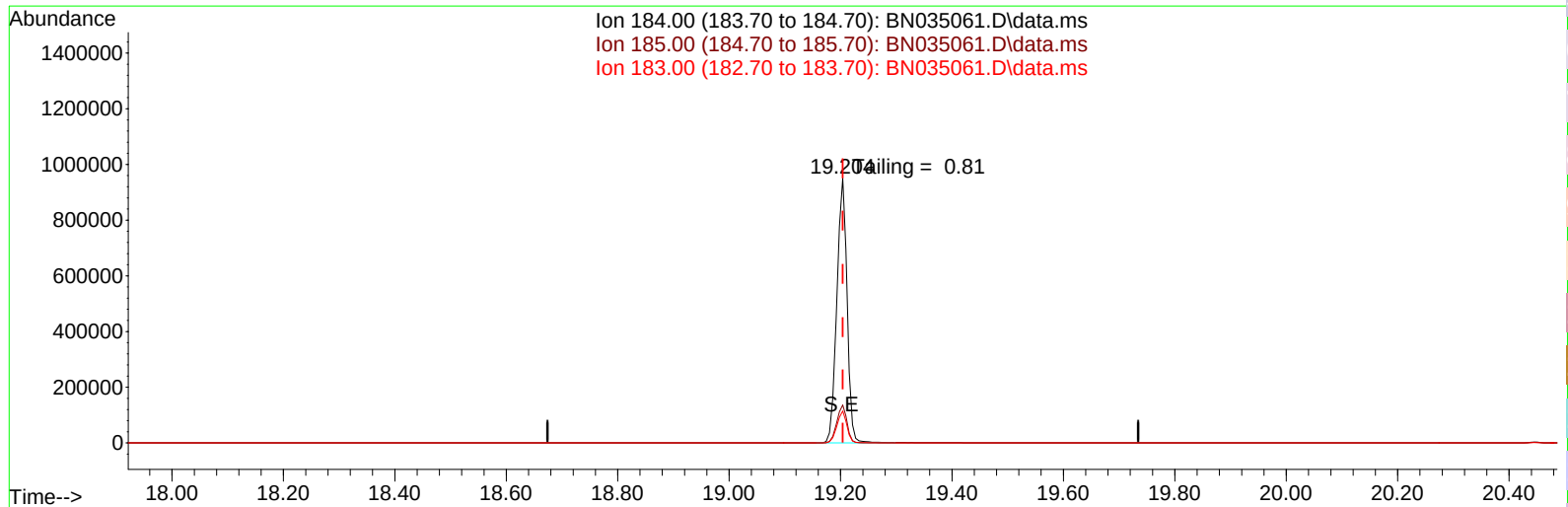
response 202879

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.29
264.00	61.60	63.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 14 15:14:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 09 04:05:27 2024
Response via : Initial Calibration



TIC: BN035061.D\data.ms

(77) Benzidine

19.204min (-0.000) 0.00 ng

response 1216684

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.30
183.00	13.20	12.08
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

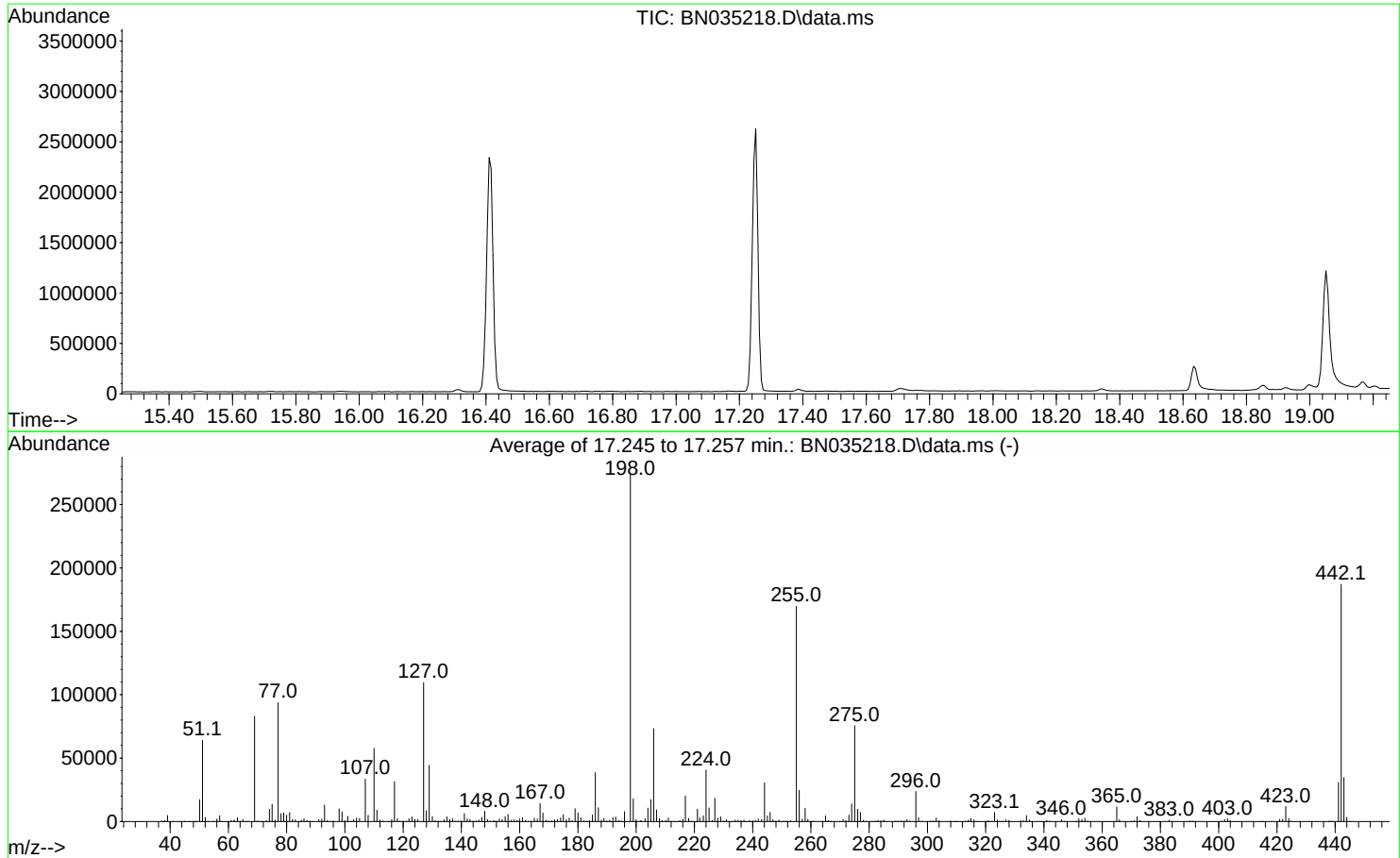
Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_N	<u>BN035561.D</u>
Compound Name	Response	Retention Time
DDT	699321	20.445
DDD	6440	20.057
DDE	0	19.527
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6440	705761	0.91

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035218.D
Acq On : 21 Nov 2024 12:43
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-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 14:00:03 2024



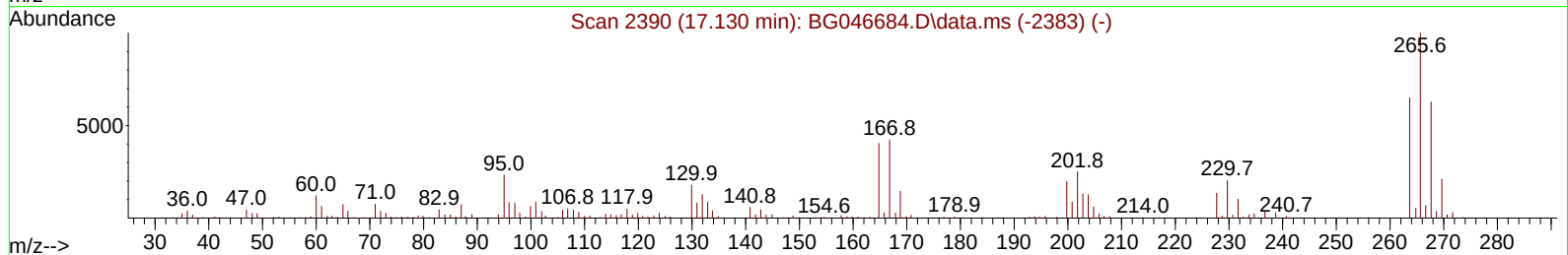
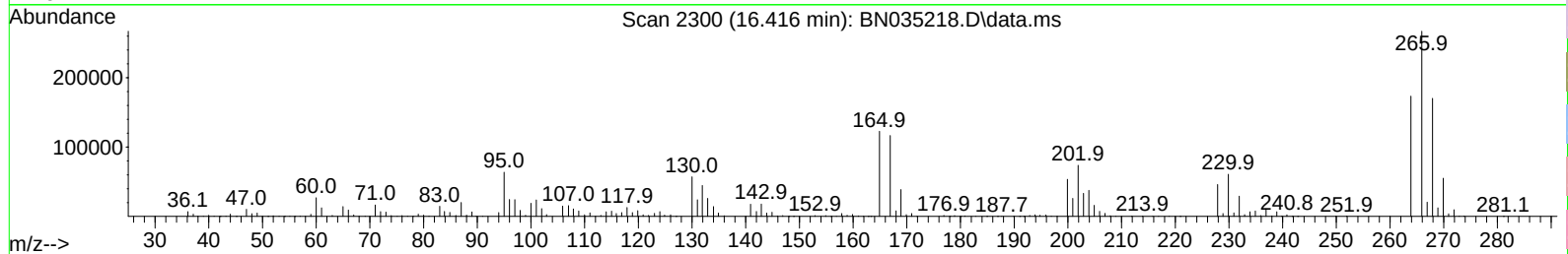
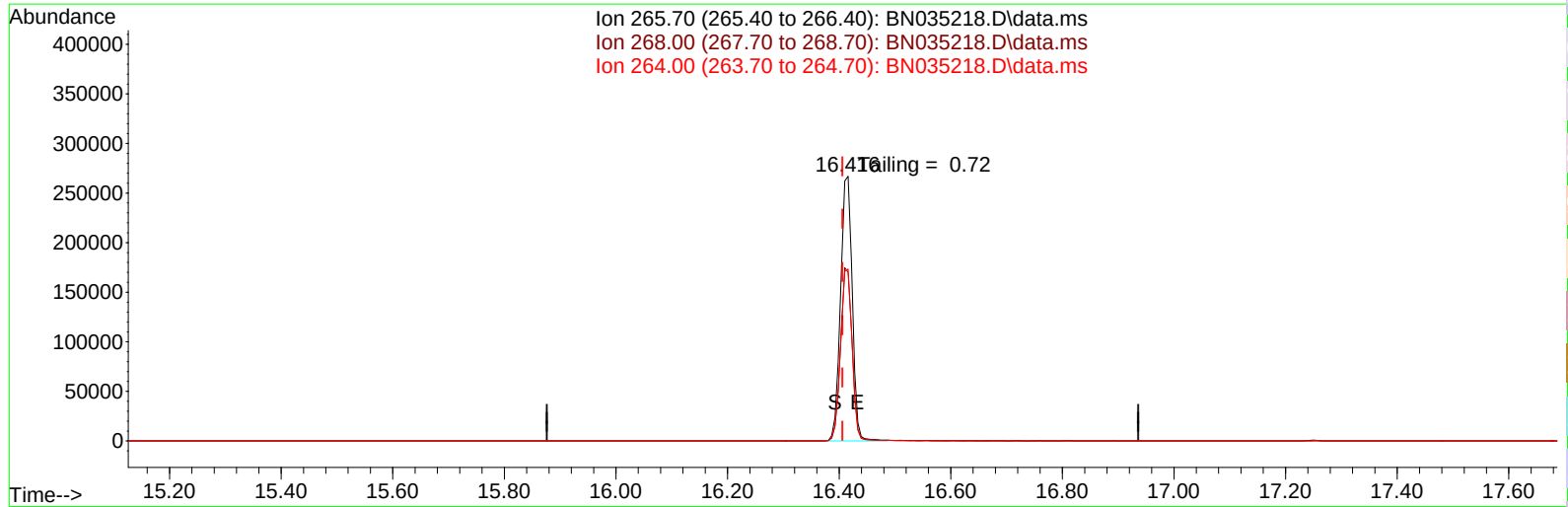
AutoFind: Scans 2441, 2442, 2443; Background Corrected with Scan 2434

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	23.4	64069	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.3	82985	PASS
70	69	0.00	2	0.5	452	PASS
127	198	10	80	40.0	109557	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	273835	PASS
199	198	5	9	6.5	17904	PASS
275	198	10	60	27.6	75661	PASS
365	198	1	100	4.2	11505	PASS
441	198	0.01	100	11.3	30941	PASS
442	442	50	100	100.0	187179	PASS
443	442	15	24	18.5	34664	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035218.D
Acq On : 21 Nov 2024 12:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 21 15:34:38 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 21 03:21:56 2024
Response via : Initial Calibration



TIC: BN035218.D\data.ms

(70) Pentachlorophenol (C)

16.416min (+ 0.010) 32791.32 ng m

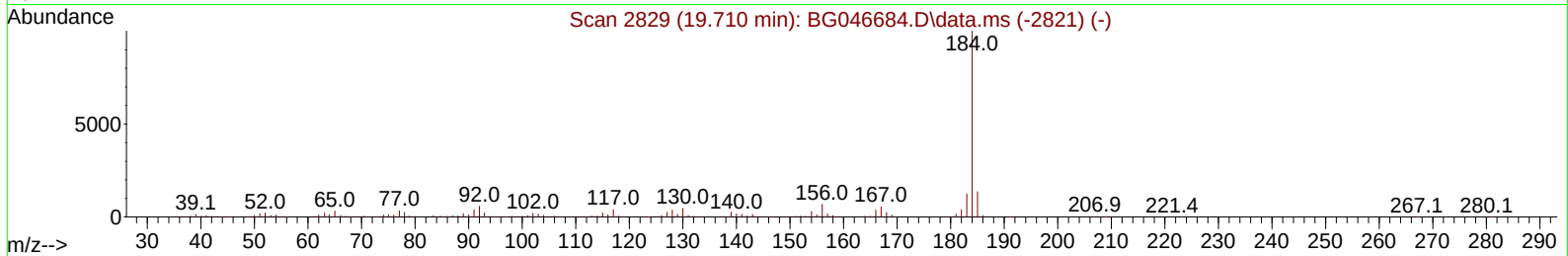
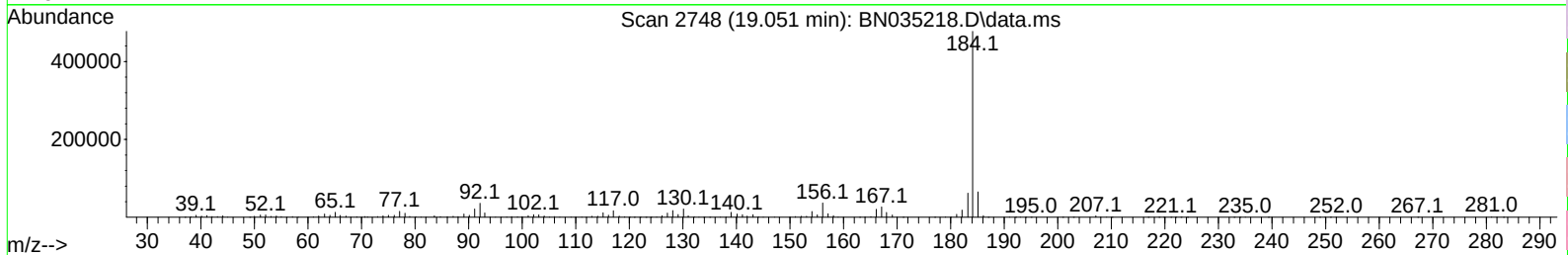
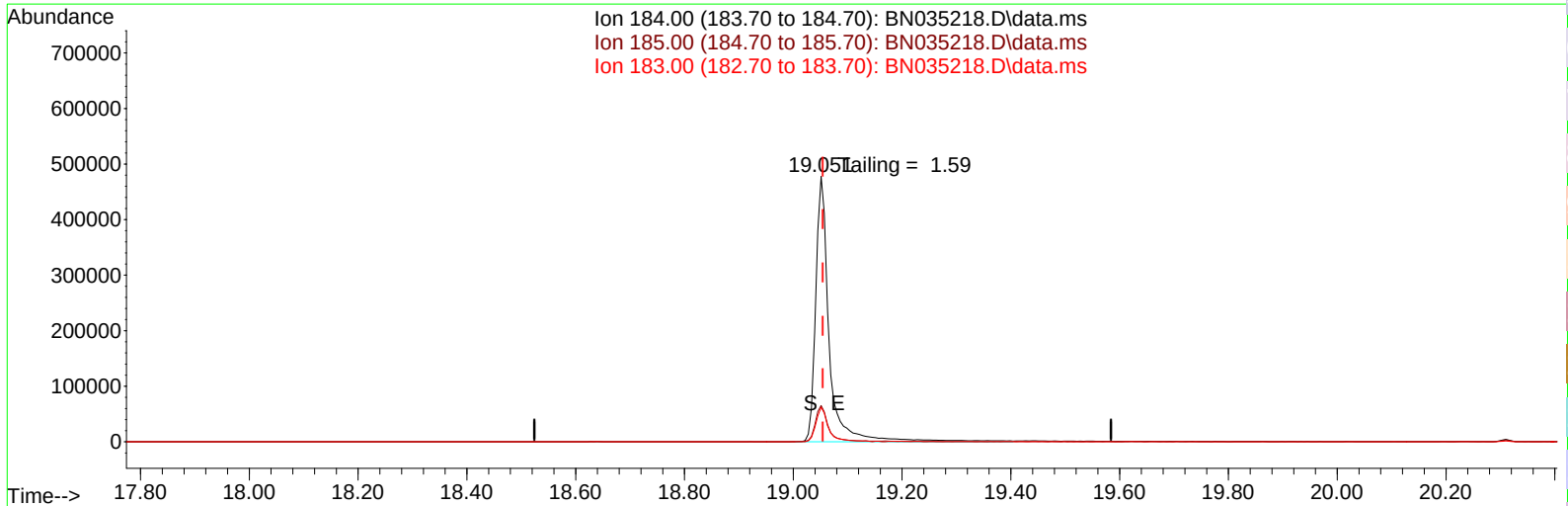
response 386007

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.76
264.00	61.60	64.93
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035218.D
 Acq On : 21 Nov 2024 12:43
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

Quant Time: Nov 21 15:39:01 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 21 03:21:56 2024
 Response via : Initial Calibration



TIC: BN035218.D\data.ms

(77) Benzidine

19.051min (-0.003) 13099.41 ng m

response 829797

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.69
183.00	13.20	13.01
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/21/2024	BNA_N	<u>BN035218.D</u>
Compound Name	Response	Retention Time
DDT	699093	20.31
DDD	18584	19.863
DDE	951	19.351
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
19535	718628	2.72

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165012BL	SDG No.:	P4866
Lab Sample ID:	PB165012BL	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035220.D	1	11/15/24 12:05	11/21/24 13:58	PB165012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.17	*	53 - 106		42%	SPK: 0.4
1718-51-0	Terphenyl-d14	1.29	*	58 - 132		323%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3640		7.329			
1146-65-2	Naphthalene-d8	8160		10.073			
15067-26-2	Acenaphthene-d10	5000		13.983			
1517-22-2	Phenanthrene-d10	10300		16.753			
1719-03-5	Chrysene-d12	2550		21.006			
1520-96-3	Perylene-d12	7090		23.105			

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\BN112124\
Data File : BN035220.D
Acq On : 21 Nov 2024 13:58
Operator : RC/JU
Sample : PB165012BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165012BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 14:34:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3644	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	8156	0.400	ng	# 0.00
13) Acenaphthene-d10	13.983	164	4996	0.400	ng	0.00
19) Phenanthrene-d10	16.753	188	10325	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	2547	0.400	ng	# 0.00
35) Perylene-d12	23.105	264	7086	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.989	112	4122	0.446	ng	0.00
5) Phenol-d6	6.535	99	5198	0.448	ng	0.00
8) Nitrobenzene-d5	8.461	82	1957m	0.276	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	5204	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.501	330	1065	0.295	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	3386	0.167	ng	0.00
27) Fluoranthene-d10	18.808	212	10530	0.333	ng	0.00
31) Terphenyl-d14	19.435	244	6913	1.293	ng	0.00

Target Compounds Qvalue

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

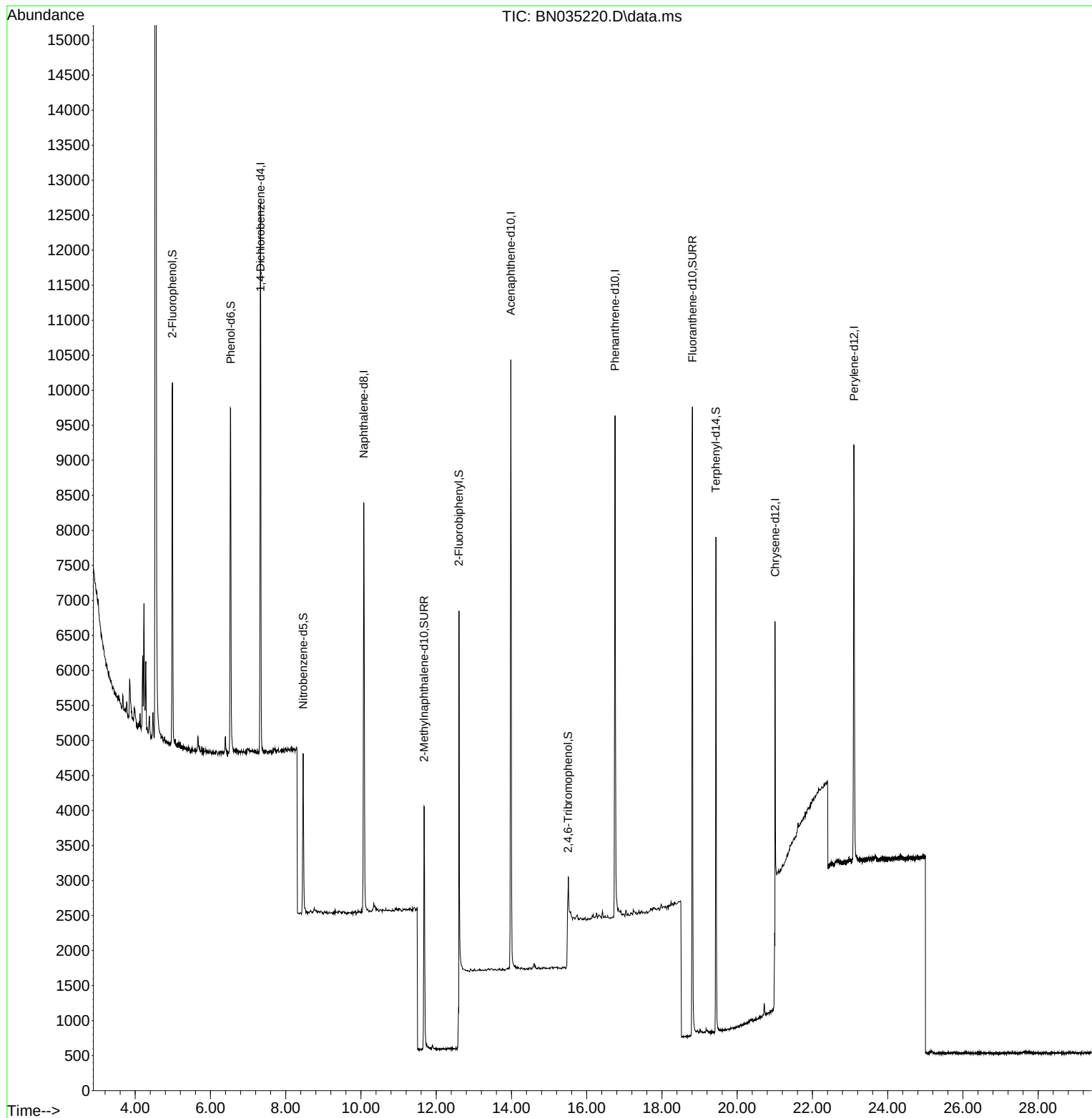
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Data File : BN035220.D
Acq On : 21 Nov 2024 13:58
Operator : RC/JU
Sample : PB165012BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

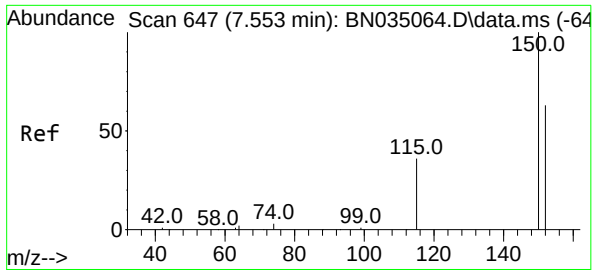
Instrument :
BNA_N
ClientSampleId :
PB165012BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

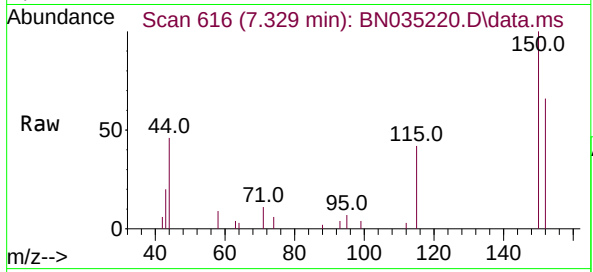
Quant Time: Nov 21 14:34:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

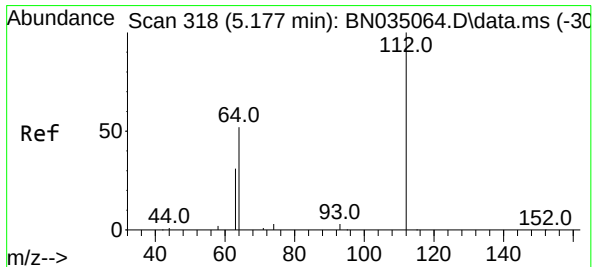
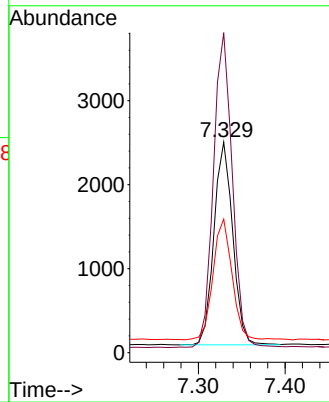
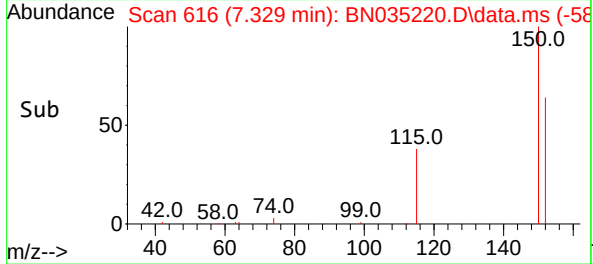
Instrument :
BNA_N
ClientSampleId :
PB165012BL



Tgt Ion:152 Resp: 364
Ion Ratio Lower Upper
152 100
150 151.9 124.5 186.7
115 63.5 47.8 71.6

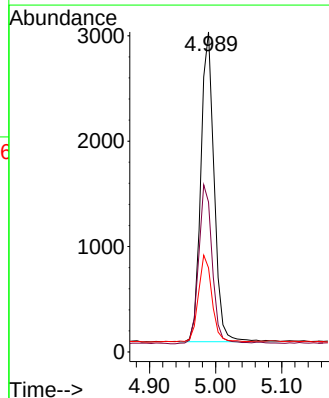
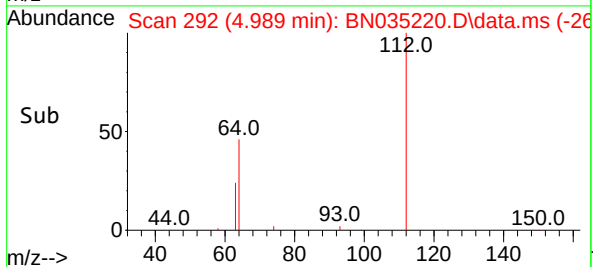
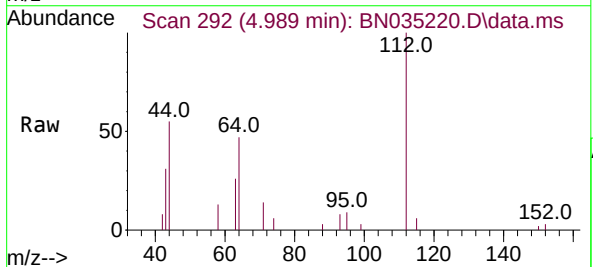
Manual Integrations
APPROVED

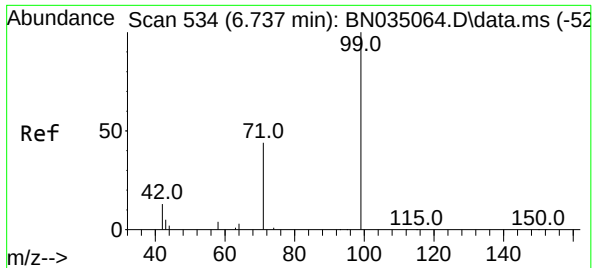
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.446 ng
RT: 4.989 min Scan# 292
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

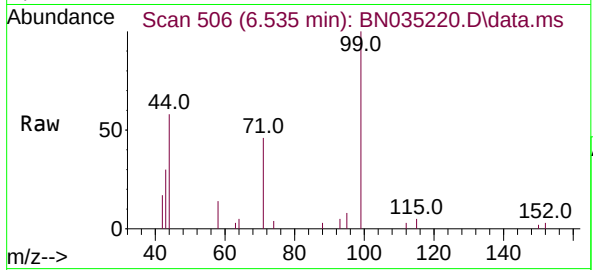
Tgt Ion:112 Resp: 4122
Ion Ratio Lower Upper
112 100
64 52.5 39.7 59.5
63 28.9 23.0 34.4





#5
Phenol-d6
Concen: 0.448 ng
RT: 6.535 min Scan# 506
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

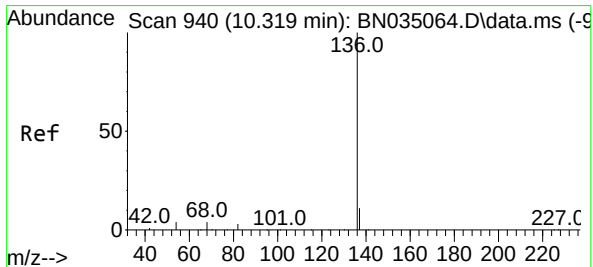
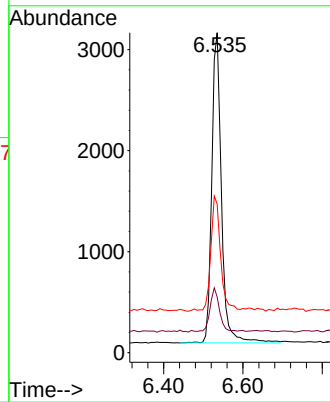
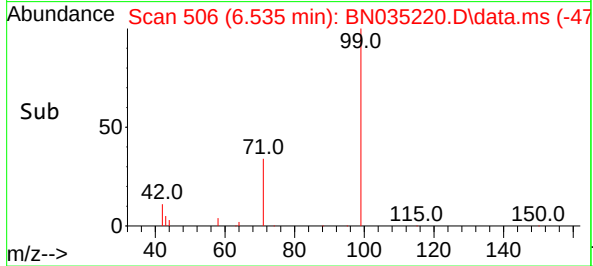
Instrument :
BNA_N
ClientSampleId :
PB165012BL



Tgt Ion: 99 Resp: 5198
Ion Ratio Lower Upper
99 100
42 13.4 11.4 17.0
71 36.1 34.6 51.8

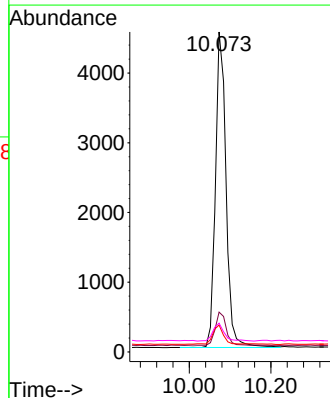
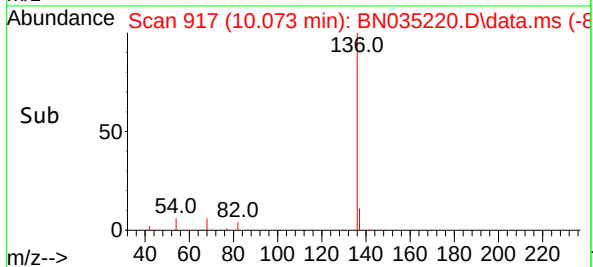
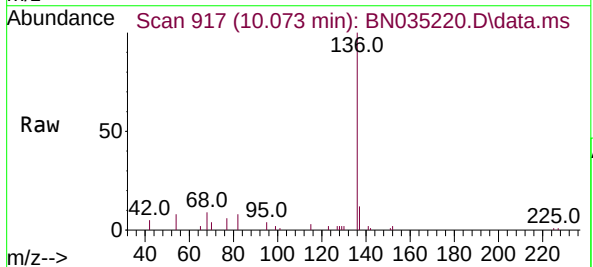
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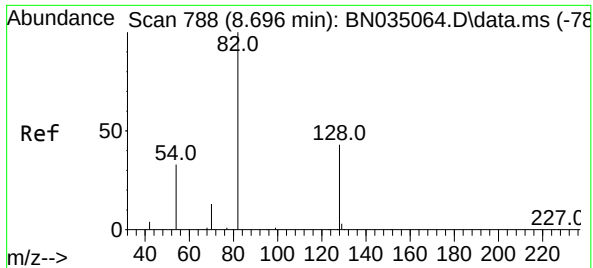
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Tgt Ion:136 Resp: 8156
Ion Ratio Lower Upper
136 100
137 12.5 9.8 14.8
54 8.4 4.0 6.0#
68 9.0 4.2 6.2#





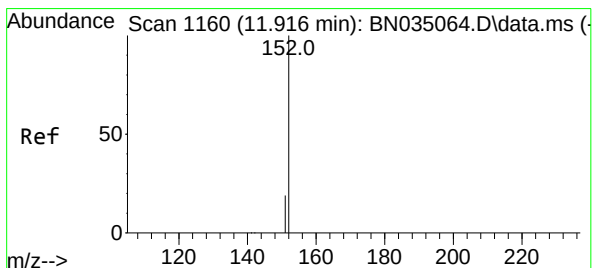
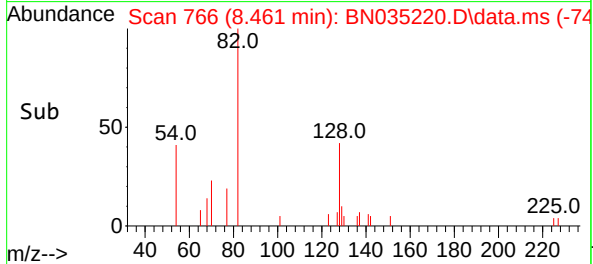
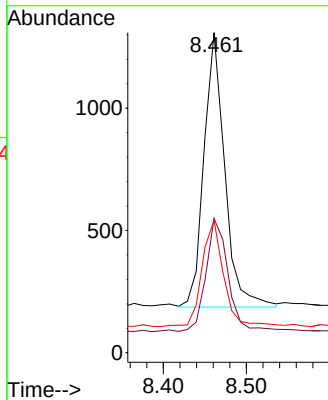
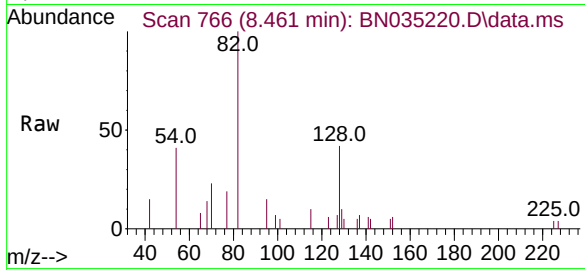
#8
Nitrobenzene-d5
Concen: 0.276 ng m
RT: 8.461 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Instrument :
BNA_N
ClientSampleId :
PB165012BL

Tgt Ion: 82 Resp: 195
Ion Ratio Lower Upper
82 100
128 41.9 36.5 54.7
54 41.4 28.7 43.1

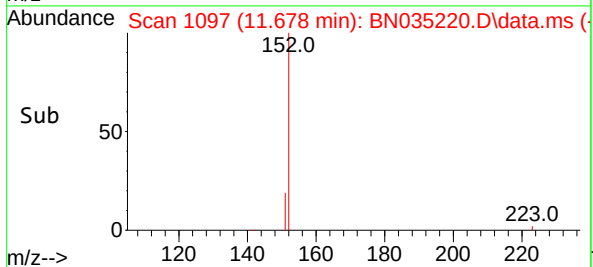
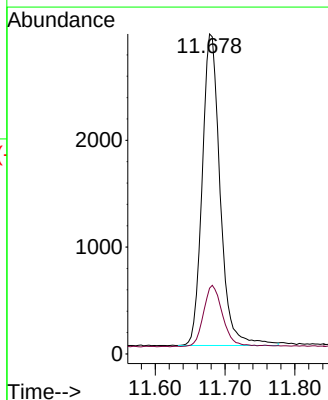
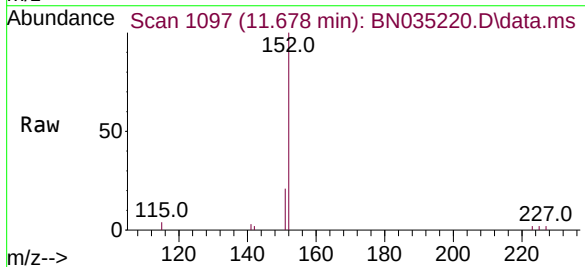
Manual Integrations
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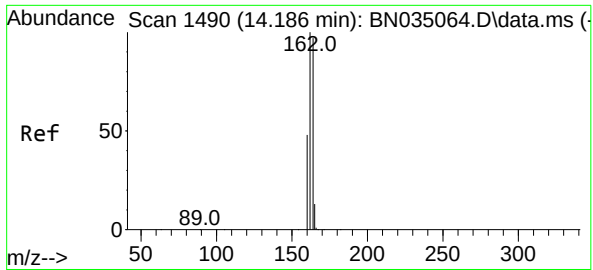
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 11.678 min Scan# 1097
Delta R.T. -0.000 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

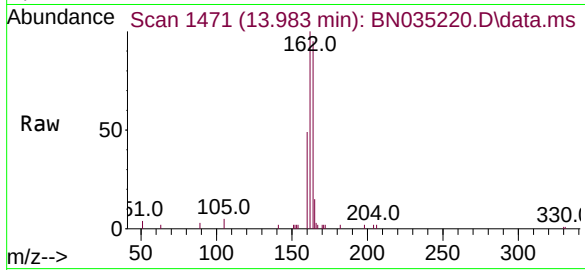
Tgt Ion:152 Resp: 5204
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.983 min Scan# 1490
Delta R.T. -0.004 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

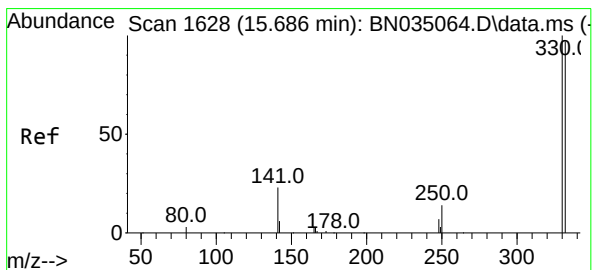
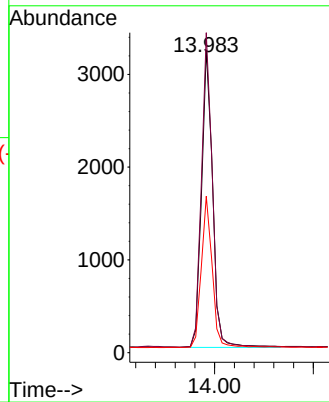
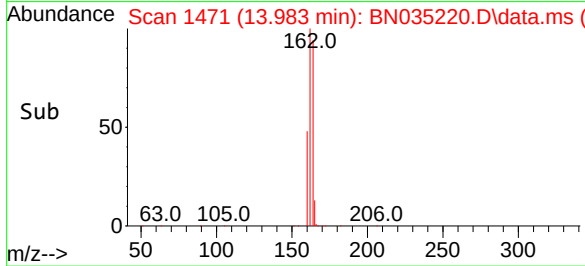
Instrument :
BNA_N
ClientSampleId :
PB165012BL



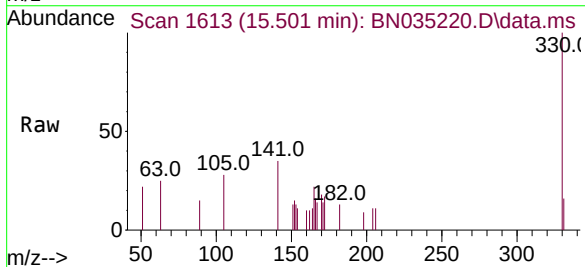
Tgt Ion:164 Resp: 4990
Ion Ratio Lower Upper
164 100
162 105.7 82.2 123.2
160 51.7 40.2 60.4

Manual Integrations
APPROVED

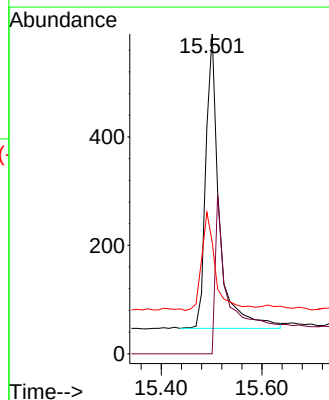
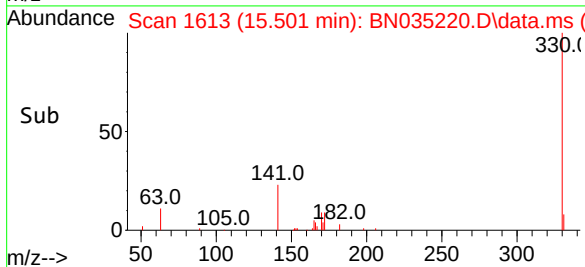
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

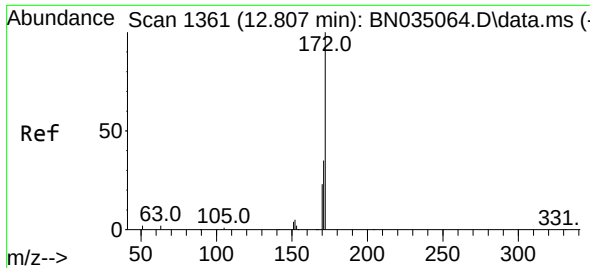


#14
2,4,6-Tribromophenol
Concen: 0.295 ng
RT: 15.501 min Scan# 1613
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58



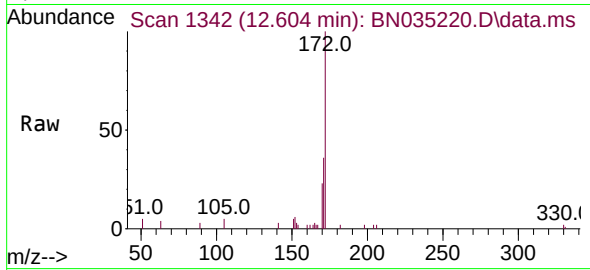
Tgt Ion:330 Resp: 1065
Ion Ratio Lower Upper
330 100
332 68.8 76.9 115.3#
141 0.0 29.6 44.4#





#15
2-Fluorobiphenyl
Concen: 0.167 ng
RT: 12.604 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

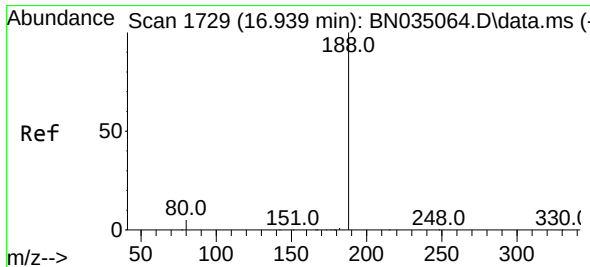
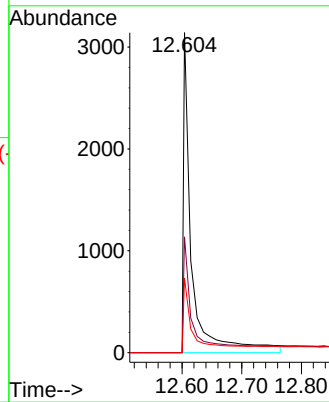
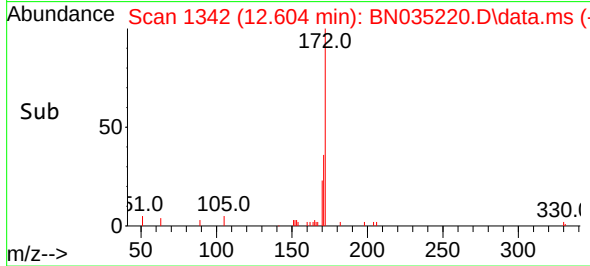
Instrument :
BNA_N
ClientSampleId :
PB165012BL



Tgt Ion:172 Resp: 3380
Ion Ratio Lower Upper
172 100
171 36.2 28.2 42.4
170 23.2 19.0 28.6

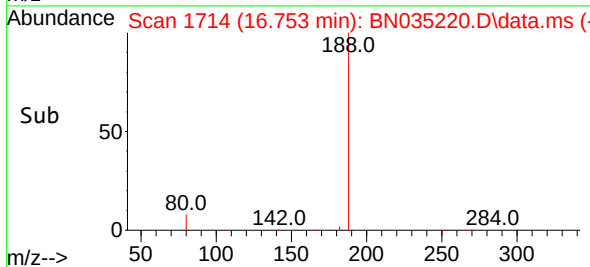
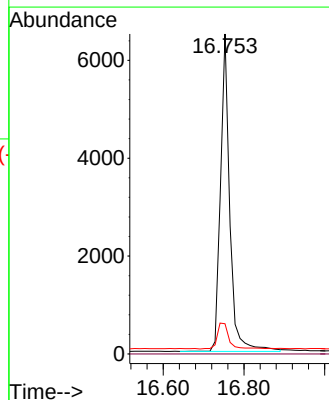
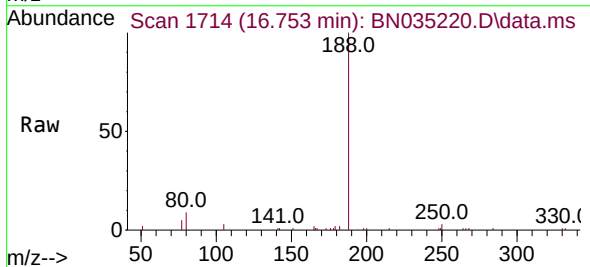
Manual Integrations
APPROVED

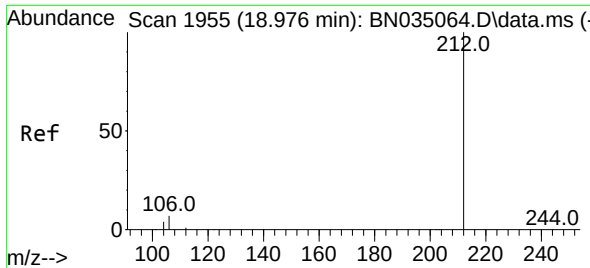
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.753 min Scan# 1714
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

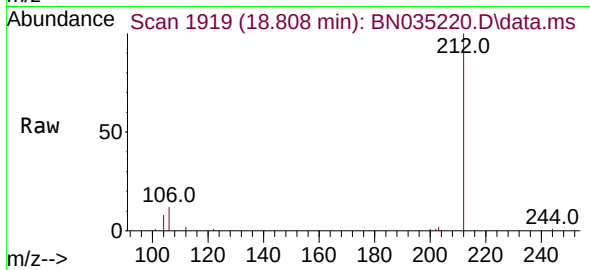
Tgt Ion:188 Resp: 10325
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.5 4.3 6.5





#27
Fluoranthene-d10
Concen: 0.333 ng
RT: 18.808 min Scan# 1955
Delta R.T. 0.002 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

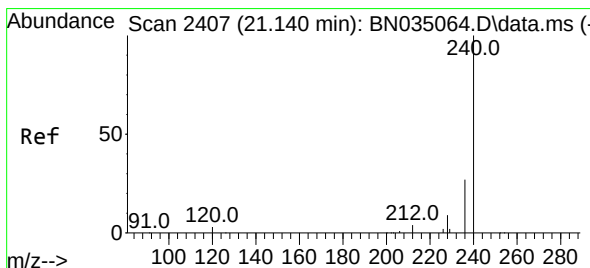
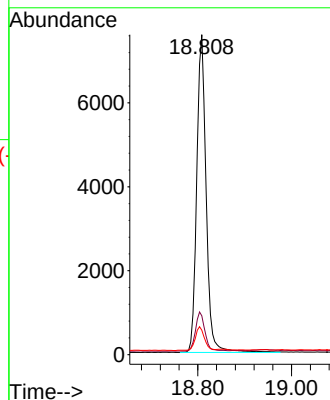
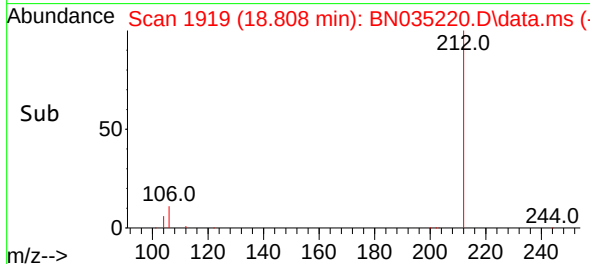
Instrument :
BNA_N
ClientSampleId :
PB165012BL



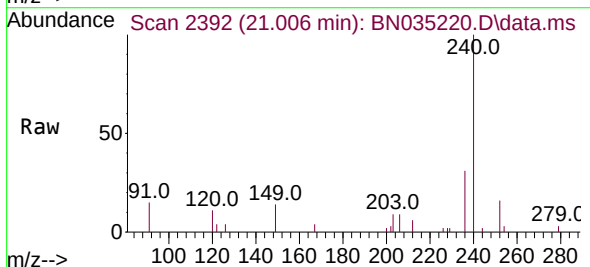
Tgt Ion:212 Resp: 10530
Ion Ratio Lower Upper
212 100
106 12.3 6.0 9.0#
104 7.3 3.5 5.3#

Manual Integrations
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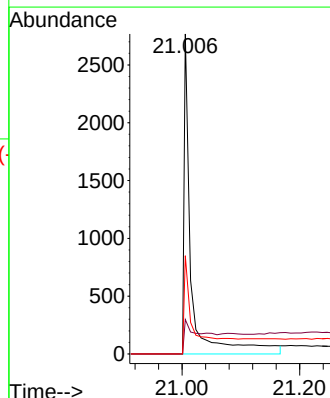
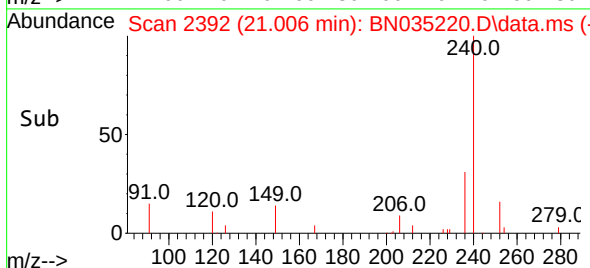
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

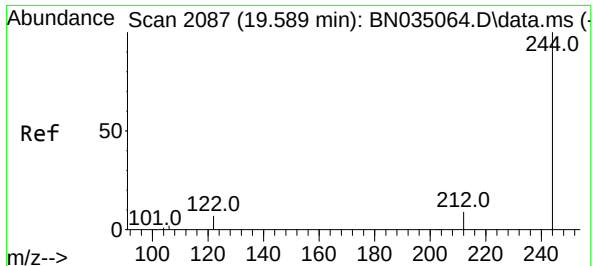


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.003 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58



Tgt Ion:240 Resp: 2547
Ion Ratio Lower Upper
240 100
120 10.8 3.8 5.6#
236 30.7 22.2 33.2





#31
Terphenyl-d14
Concen: 1.293 ng
RT: 19.435 min Scan# 2087
Delta R.T. -0.003 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Instrument :

BNA_N

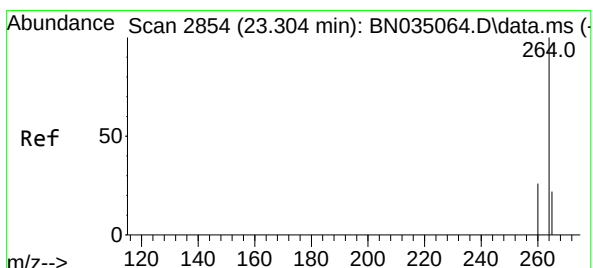
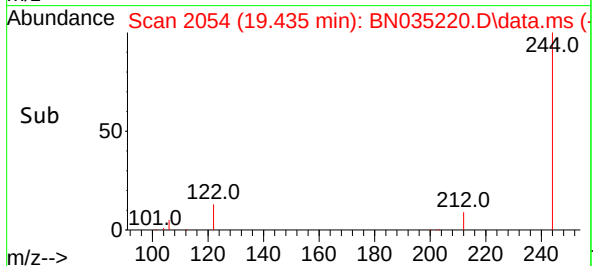
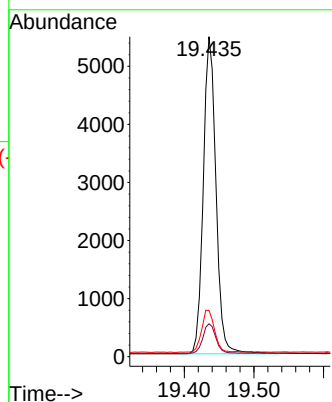
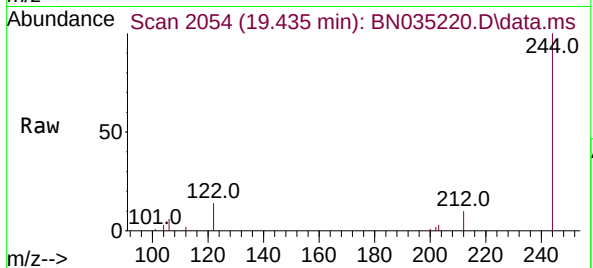
ClientSampleId :

PB165012BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.6	11.4
122	14.4	6.1	9.1

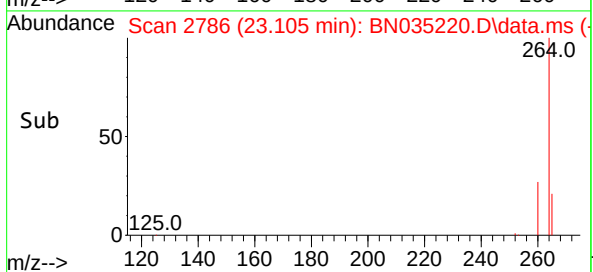
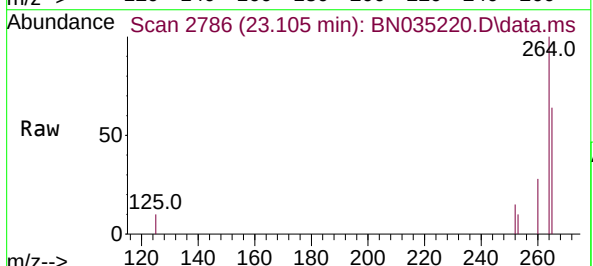
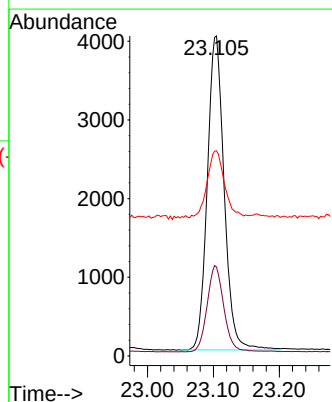
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.105 min Scan# 2786
Delta R.T. 0.001 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.8	20.9	31.3
265	64.1	35.4	53.2



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB165012BS		SDG No.:	P4866
Lab Sample ID:	PB165012BS		Matrix:	Water
Analytical Method:	SW8270SIM		% 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 :	SW3510C			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035226.D	1	11/15/24 12:05	11/21/24 17:36	PB165012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.26		30 - 150		66%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.22		55 - 111		56%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.086	*	53 - 106		22%	SPK: 0.4
1718-51-0	Terphenyl-d14	2.22	*	58 - 132		556%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3340		7.329			
1146-65-2	Naphthalene-d8	7690		10.073			
15067-26-2	Acenaphthene-d10	4260		13.986			
1517-22-2	Phenanthrene-d10	8290		16.746			
1719-03-5	Chrysene-d12	1030		21.008			
1520-96-3	Perylene-d12	1170		23.101			

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\BN112124\
 Data File : BN035226.D
 Acq On : 21 Nov 2024 17:36
 Operator : RC/JU
 Sample : PB165012BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB165012BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:04:32 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 14:00:03 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3340	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7691	0.400	ng	# 0.00
13) Acenaphthene-d10	13.986	164	4263	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	8289	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1030	0.400	ng	# 0.00
35) Perylene-d12	23.101	264	1173	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.989	112	3292	0.388	ng	0.00
5) Phenol-d6	6.534	99	3928	0.369	ng	0.00
8) Nitrobenzene-d5	8.461	82	1494m	0.223	ng	0.00
11) 2-Methylnaphthalene-d10	11.677	152	4481	0.327	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	954	0.310	ng	0.00
15) 2-Fluorobiphenyl	12.607	172	1496	0.086	ng	0.00
27) Fluoranthene-d10	18.806	212	6678	0.263	ng	0.00
31) Terphenyl-d14	19.433	244	4805	2.223	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.017	88	1150	0.379	ng	# 58
3) n-Nitrosodimethylamine	3.306	42	1040	0.368	ng	# 99
6) bis(2-Chloroethyl)ether	6.773	93	3339	0.418	ng	95
9) Naphthalene	10.126	128	8021	0.399	ng	99
10) Hexachlorobutadiene	10.425	225	1793	0.305	ng	# 99
12) 2-Methylnaphthalene	11.753	142	5384	0.363	ng	97
16) Acenaphthylene	13.698	152	7197	0.395	ng	99
17) Acenaphthene	14.040	154	4817	0.403	ng	98
18) Fluorene	15.045	166	6416	0.365	ng	99
20) 4,6-Dinitro-2-methylph...	15.141	198	296	0.172	ng	# 22
21) 4-Bromophenyl-phenylether	15.951	248	2101	0.398	ng	# 77
22) Hexachlorobenzene	16.063	284	2505	0.457	ng	97
24) Pentachlorophenol	16.411	266	1606	0.627	ng	96
25) Phenanthrene	16.795	178	8986	0.412	ng	99
26) Anthracene	16.882	178	8282	0.413	ng	99
28) Fluoranthene	18.834	202	8504	0.283	ng	# 98
30) Pyrene	19.201	202	6940	2.023	ng	99
32) Benzo(a)anthracene	21.026	228	7390	2.061	ng	# 94
33) Chrysene	21.026	228	7390	2.080	ng	97
34) Bis(2-ethylhexyl)phtha...	21.008	149	891	0.473	ng	# 81
36) Indeno(1,2,3-cd)pyrene	25.159	276	4451	0.951	ng	# 88
37) Benzo(b)fluoranthene	22.481	252	5897	1.494	ng	# 87
38) Benzo(k)fluoranthene	22.522	252	4976	1.260	ng	# 84
39) Benzo(a)pyrene	23.007	252	3441	0.991	ng	# 75
40) Dibenzo(a,h)anthracene	25.174	278	4731	1.276	ng	# 83
41) Benzo(g,h,i)perylene	25.770	276	3544	0.899	ng	# 83

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035226.D
 Acq On : 21 Nov 2024 17:36
 Operator : RC/JU
 Sample : PB165012BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB165012BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024

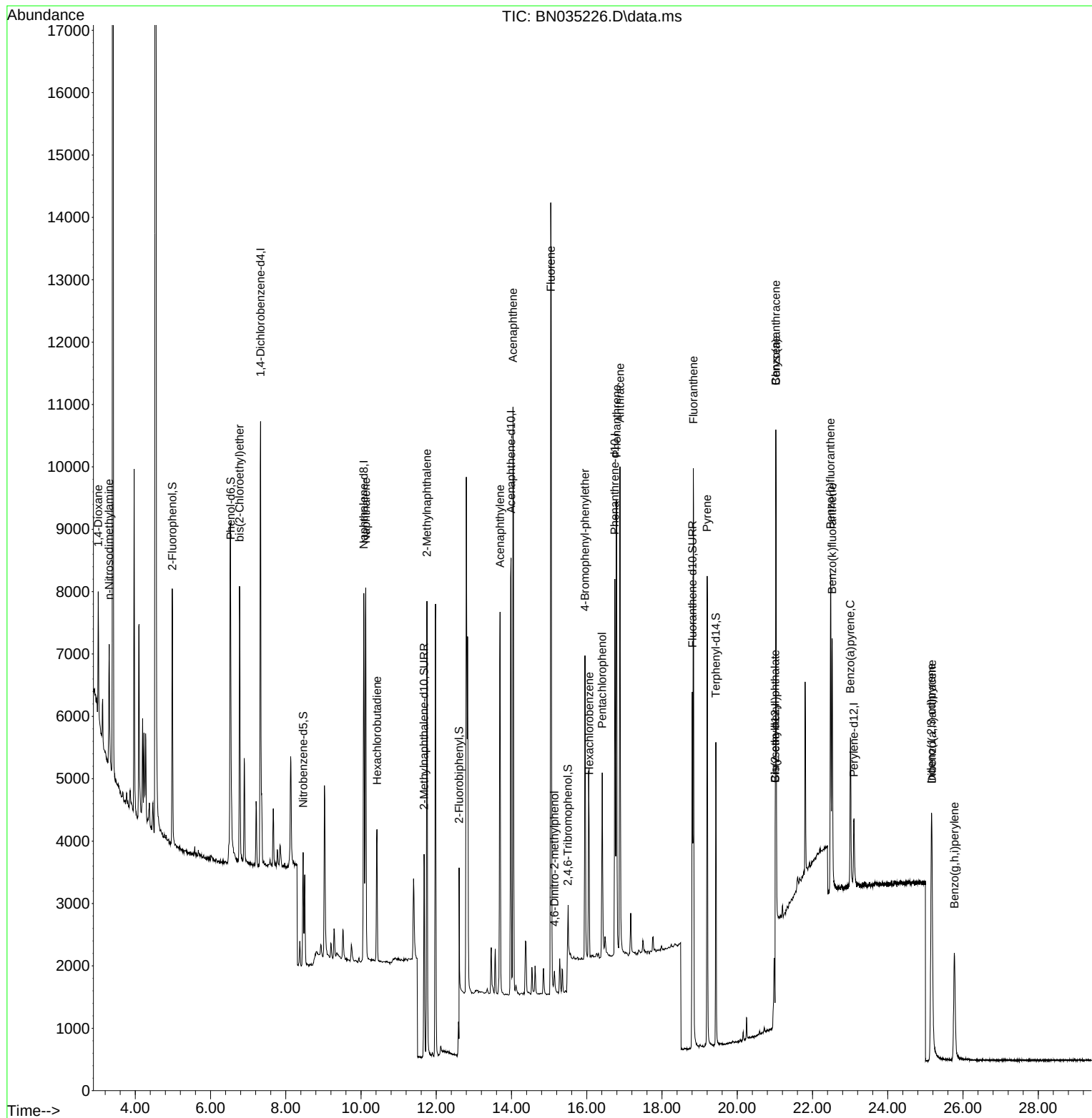
Quant Time: Nov 21 23:04:32 2024

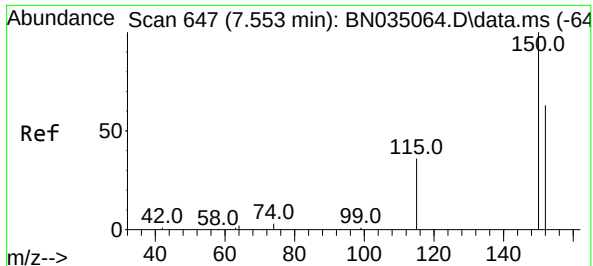
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 14:00:03 2024

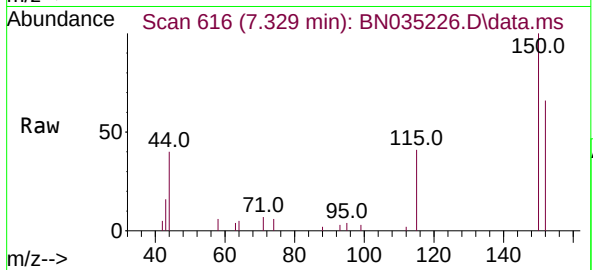
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

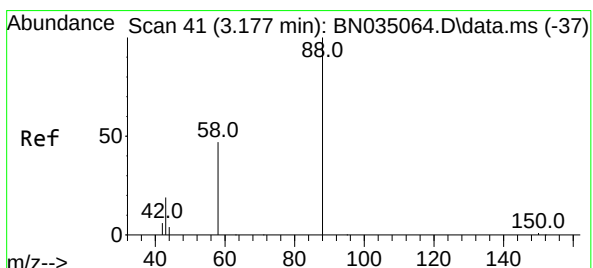
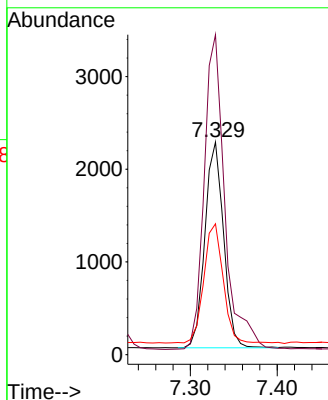
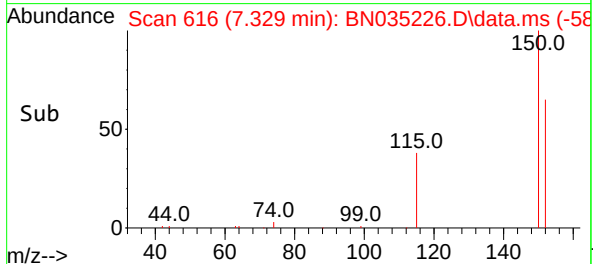
Instrument :
BNA_N
ClientSampleId :
PB165012BS



Tgt Ion:152 Resp: 3340
Ion Ratio Lower Upper
152 100
150 150.5 124.5 186.7
115 61.6 47.8 71.6

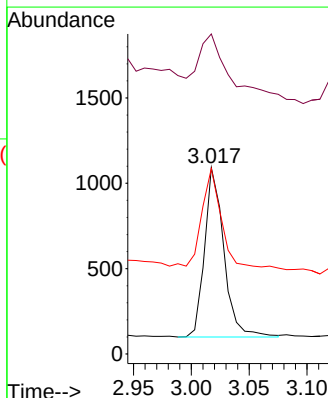
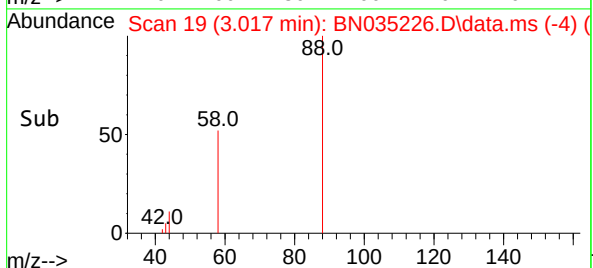
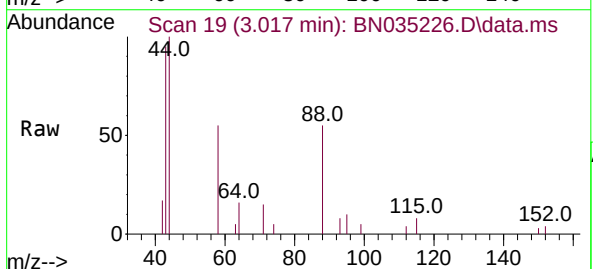
Manual Integrations
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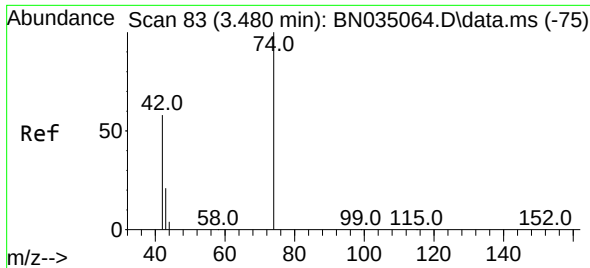
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.017 min Scan# 19
Delta R.T. 0.007 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion: 88 Resp: 1150
Ion Ratio Lower Upper
88 100
43 60.6 16.9 25.3#
58 64.3 39.0 58.4#





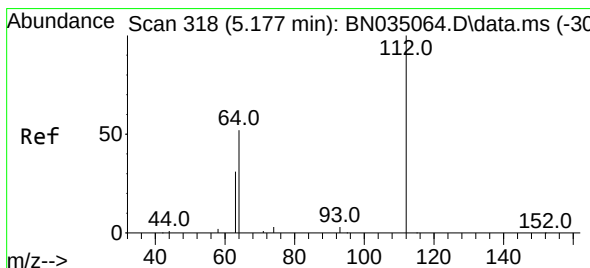
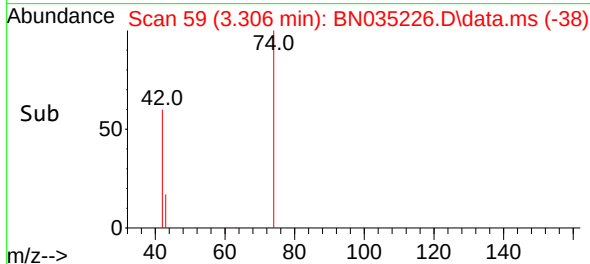
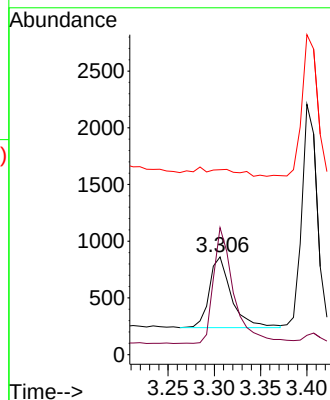
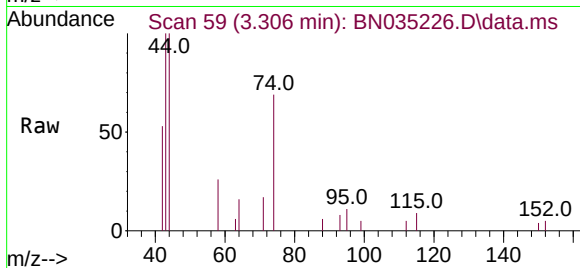
#3
n-Nitrosodimethylamine
Concen: 0.368 ng
RT: 3.306 min Scan# 51
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion: 42 Resp: 1040
Ion Ratio Lower Upper
42 100
74 151.4 120.8 181.2
44 0.0 2.9 4.3

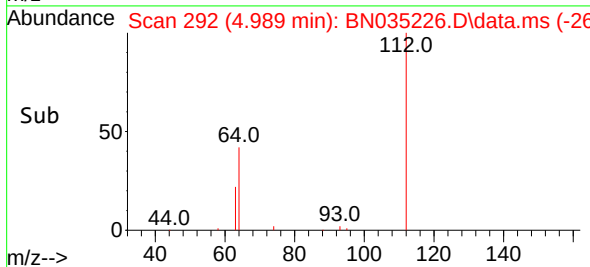
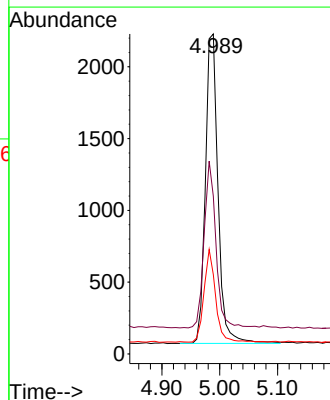
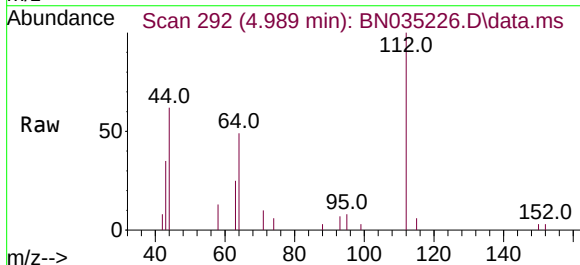
Manual Integrations
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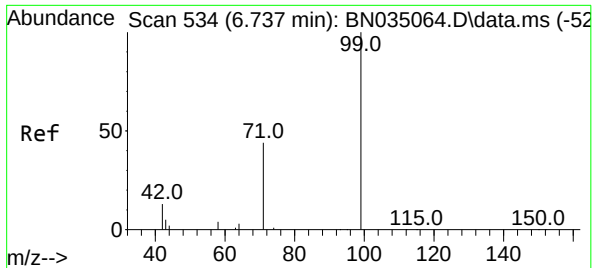
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.388 ng
RT: 4.989 min Scan# 292
Delta R.T. 0.007 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:112 Resp: 3292
Ion Ratio Lower Upper
112 100
64 50.4 39.7 59.5
63 27.5 23.0 34.4





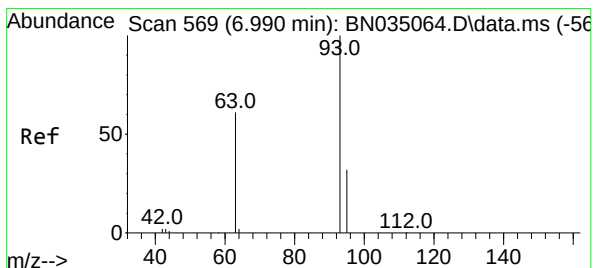
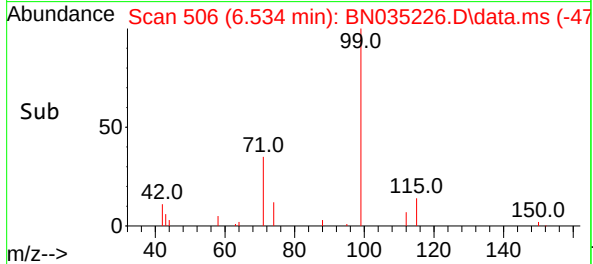
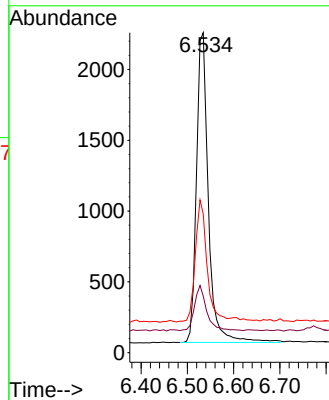
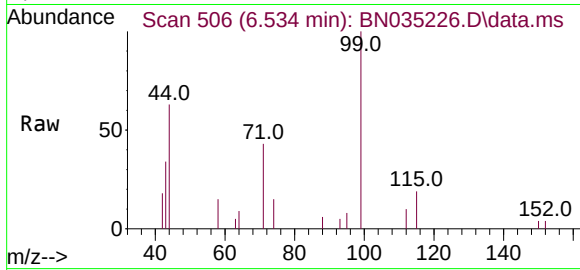
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.534 min Scan# 506
Delta R.T. 0.007 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion: 99 Resp: 3928
Ion Ratio Lower Upper
99 100
42 14.9 11.4 17.0
71 38.8 34.6 51.8

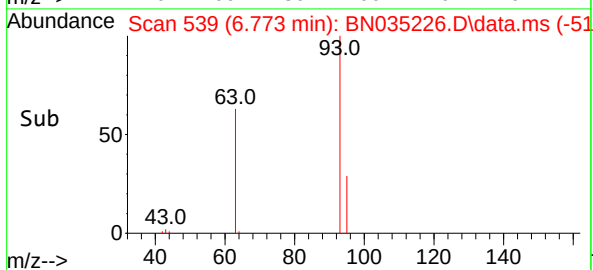
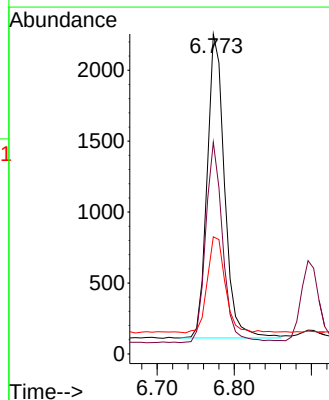
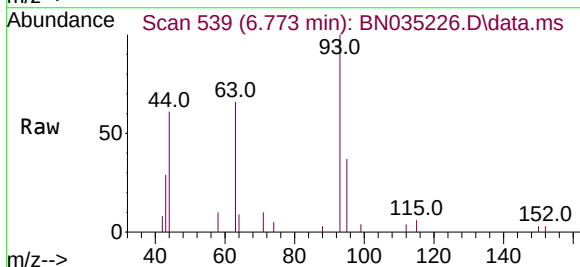
Manual Integrations
APPROVED

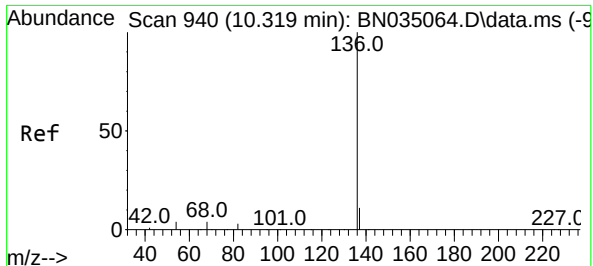
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.418 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

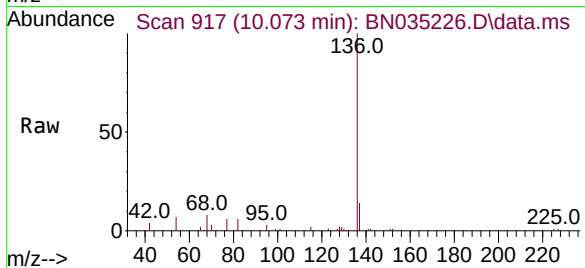
Tgt Ion: 93 Resp: 3339
Ion Ratio Lower Upper
93 100
63 64.8 47.4 71.2
95 32.8 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

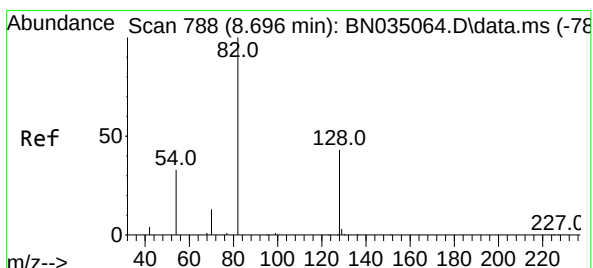
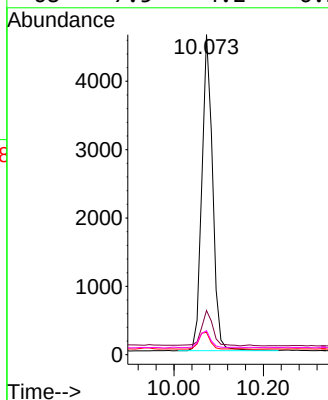
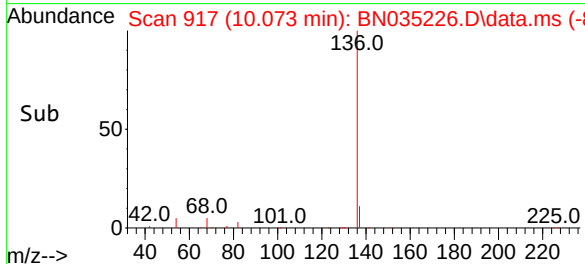
Instrument :
BNA_N
ClientSampleId :
PB165012BS



Tgt Ion: 136 Resp: 769
Ion Ratio Lower Upper
136 100
137 13.8 9.8 14.8
54 6.9 4.0 6.0
68 7.5 4.2 6.2

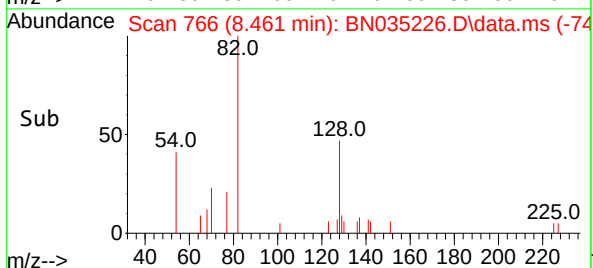
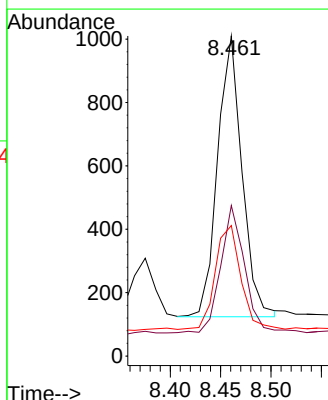
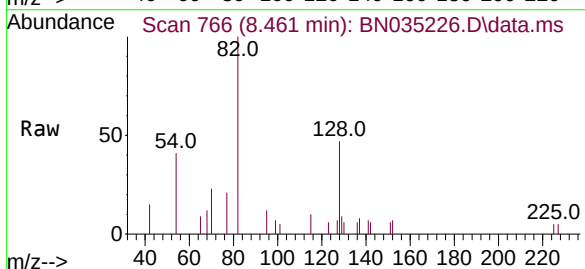
Manual Integrations
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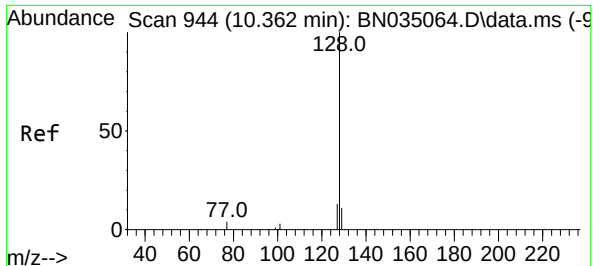
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#8
Nitrobenzene-d5
Concen: 0.223 ng m
RT: 8.461 min Scan# 766
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion: 82 Resp: 1494
Ion Ratio Lower Upper
82 100
128 47.0 36.5 54.7
54 40.8 28.7 43.1





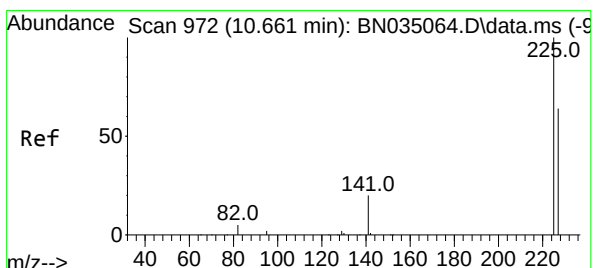
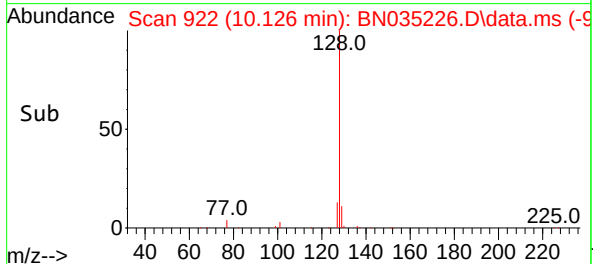
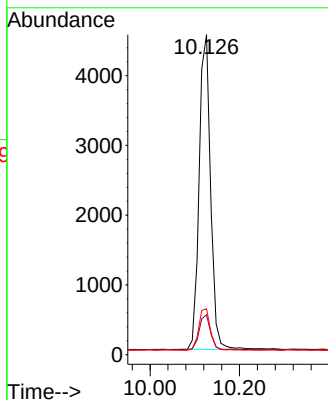
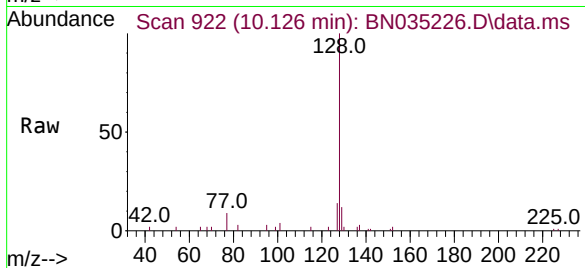
#9
Naphthalene
Concen: 0.399 ng
RT: 10.126 min Scan# 91
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion:128 Resp: 802
Ion Ratio Lower Upper
128 100
129 12.5 9.6 14.4
127 14.3 11.6 17.4

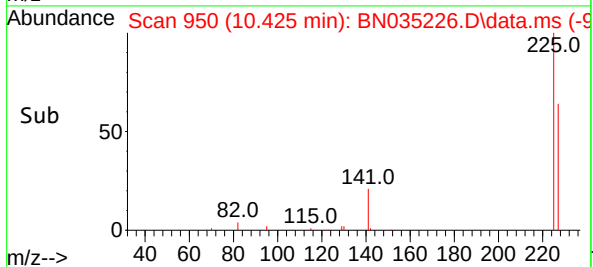
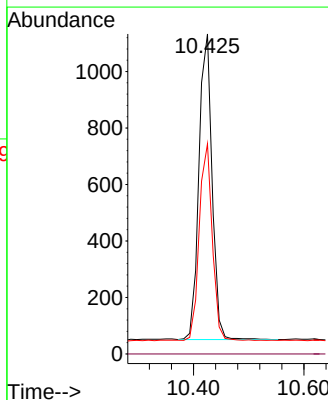
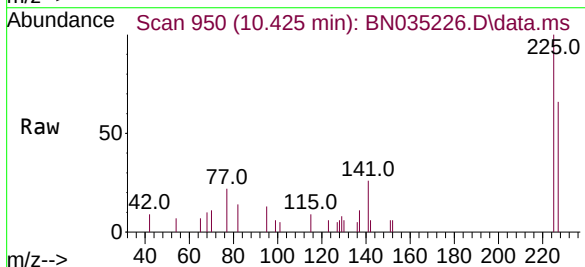
Manual Integrations
APPROVED

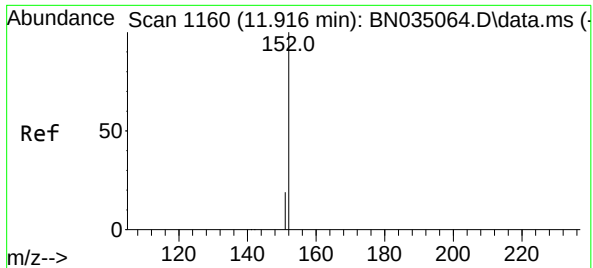
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#10
Hexachlorobutadiene
Concen: 0.305 ng
RT: 10.425 min Scan# 950
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:225 Resp: 1793
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.5 77.3





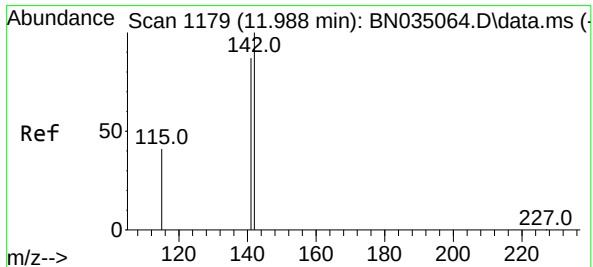
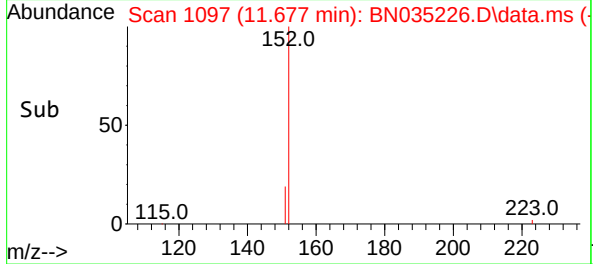
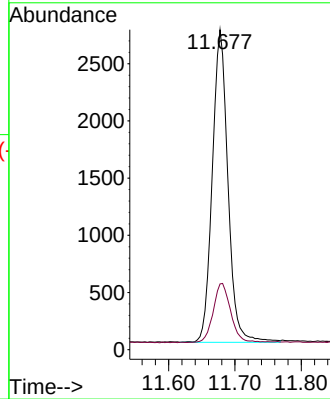
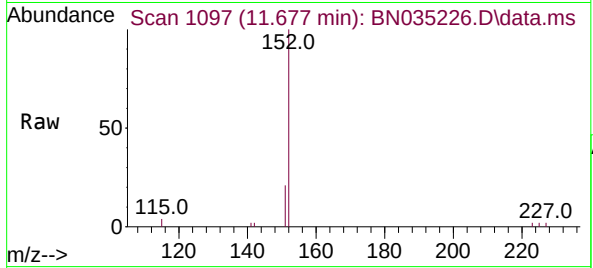
#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 11.677 min Scan# 1107
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion:152 Resp: 448
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4

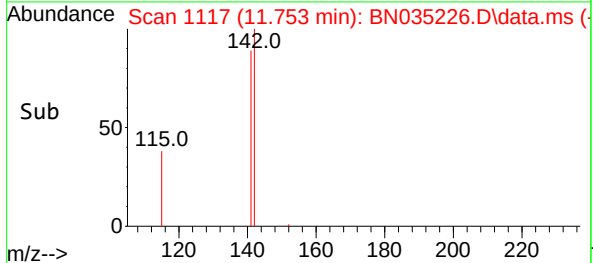
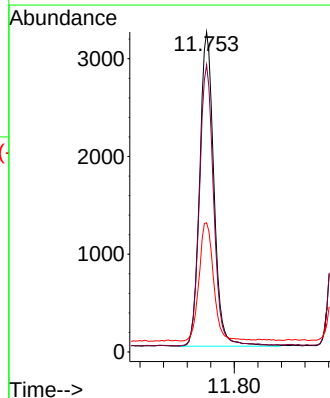
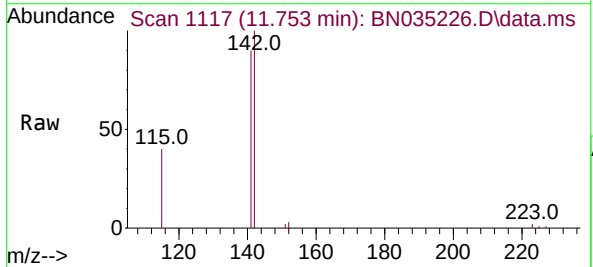
Manual Integrations
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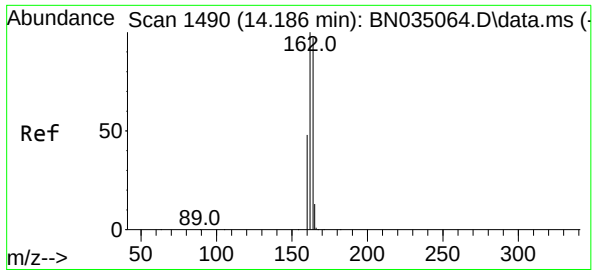
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#12
2-Methylnaphthalene
Concen: 0.363 ng
RT: 11.753 min Scan# 1117
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

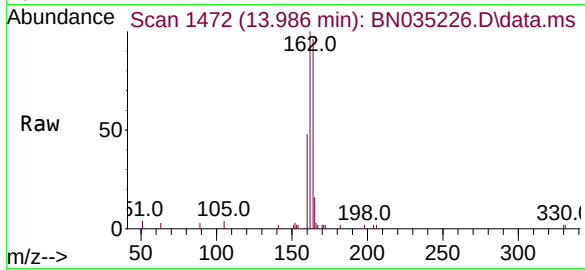
Tgt Ion:142 Resp: 5384
Ion Ratio Lower Upper
142 100
141 89.7 70.1 105.1
115 40.3 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.986 min Scan# 1490
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

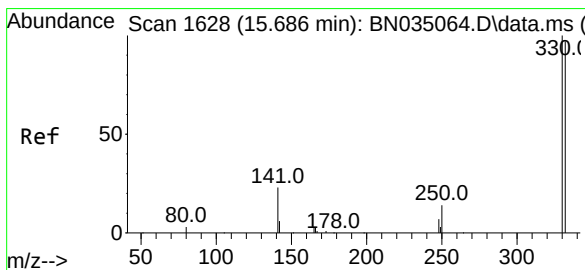
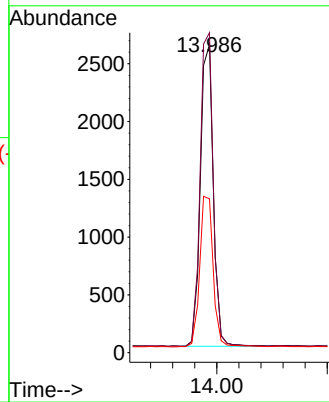
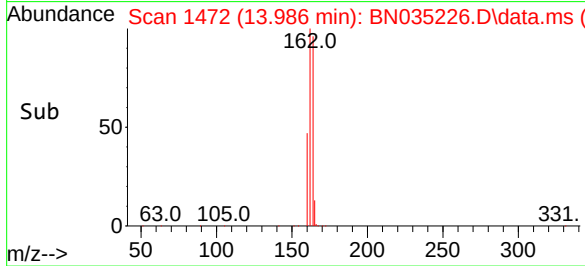
Instrument :
BNA_N
ClientSampleId :
PB165012BS



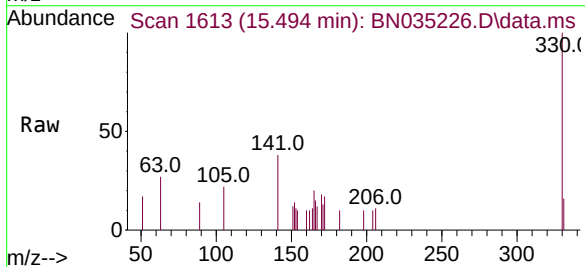
Tgt Ion:164 Resp: 426
Ion Ratio Lower Upper
164 100
162 103.8 82.2 123.2
160 49.9 40.2 60.4

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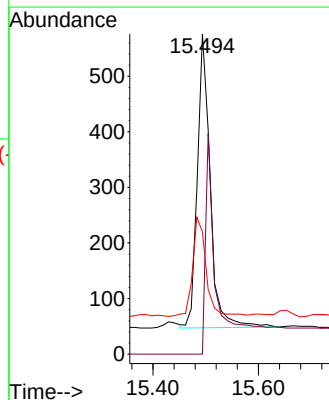
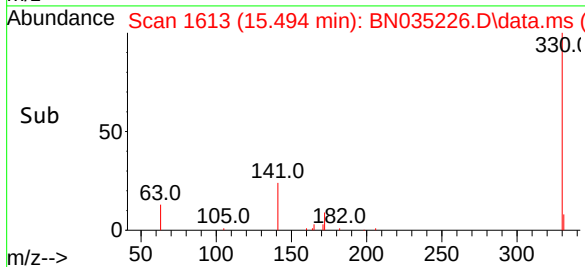
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

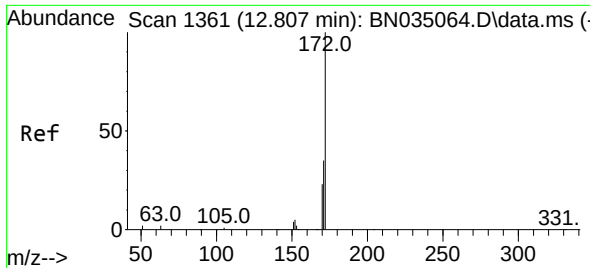


#14
2,4,6-Tribromophenol
Concen: 0.310 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36



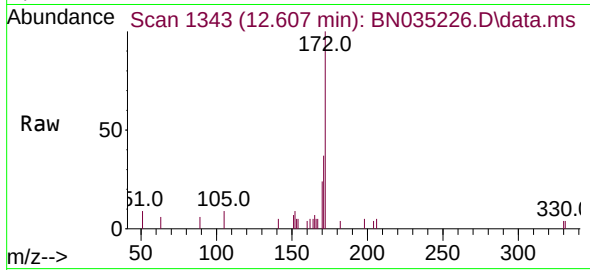
Tgt Ion:330 Resp: 954
Ion Ratio Lower Upper
330 100
332 80.5 76.9 115.3
141 0.0 29.6 44.4#





#15
2-Fluorobiphenyl
Concen: 0.086 ng
RT: 12.607 min Scan# 1443
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

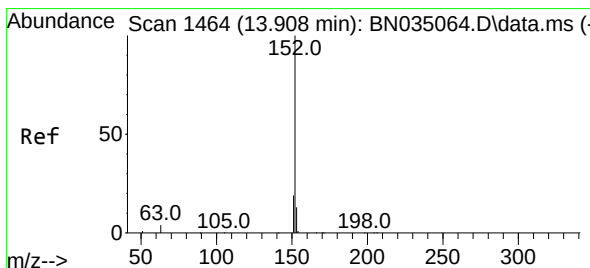
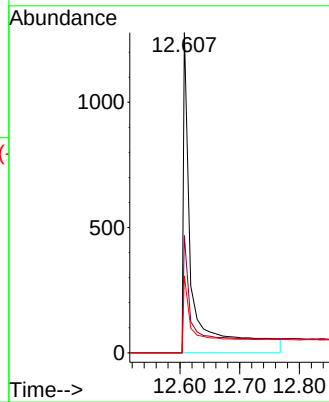
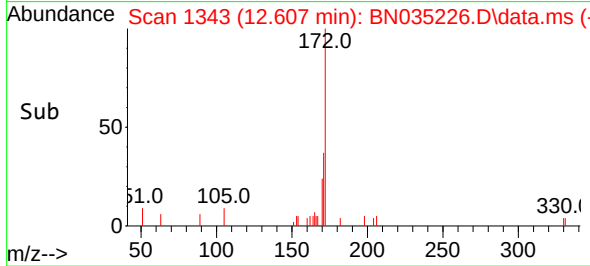
Instrument :
BNA_N
ClientSampleId :
PB165012BS



Tgt Ion:172 Resp: 1490
Ion Ratio Lower Upper
172 100
171 36.6 28.2 42.4
170 24.0 19.0 28.6

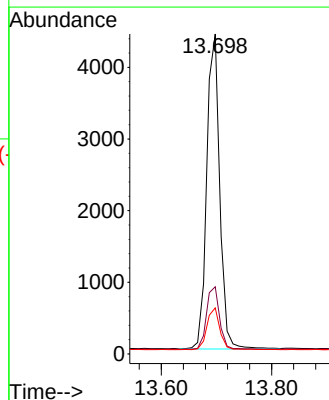
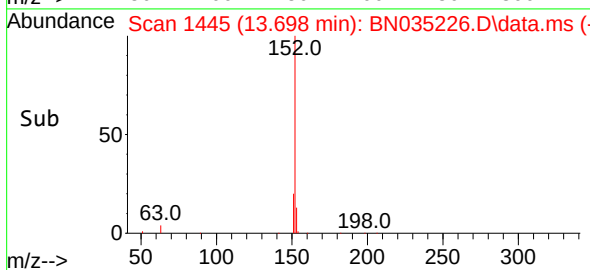
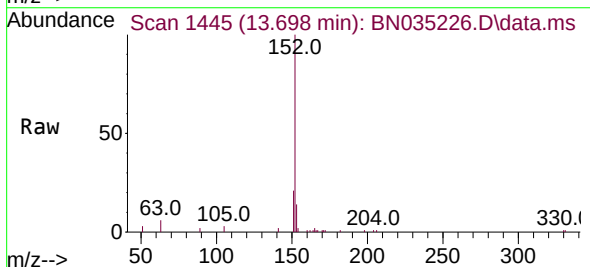
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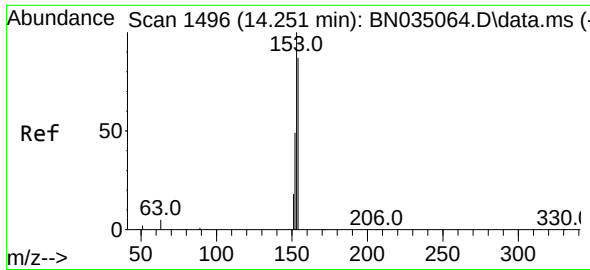
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#16
Acenaphthylene
Concen: 0.395 ng
RT: 13.698 min Scan# 1445
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

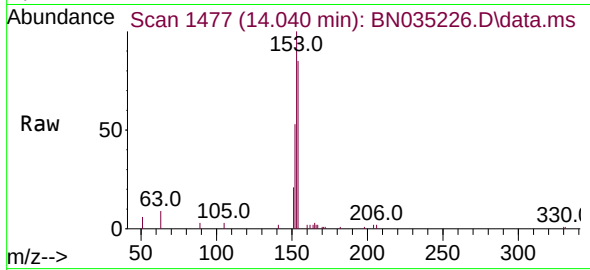
Tgt Ion:152 Resp: 7197
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.8
153 13.3 10.2 15.4





#17
Acenaphthene
Concen: 0.403 ng
RT: 14.040 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

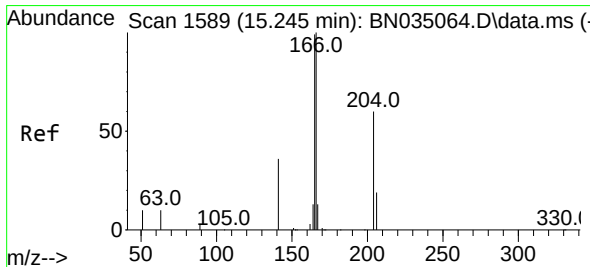
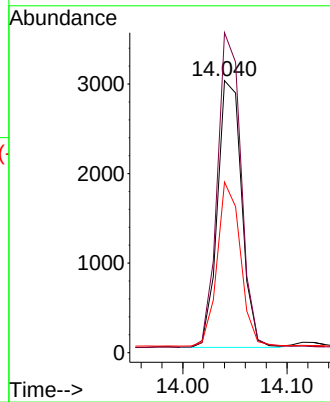
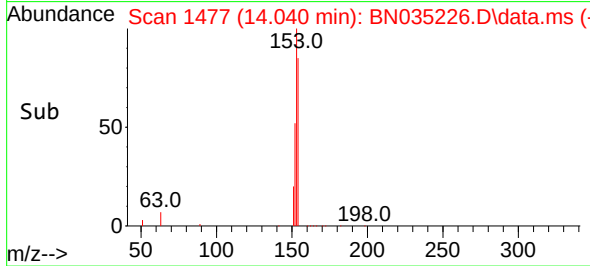
Instrument :
BNA_N
ClientSampleId :
PB165012BS



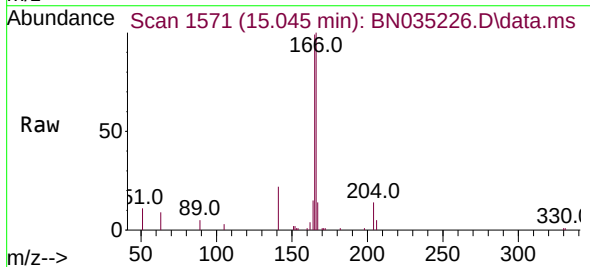
Tgt Ion:154 Resp: 481
Ion Ratio Lower Upper
154 100
153 116.1 91.6 137.4
152 59.3 45.8 68.6

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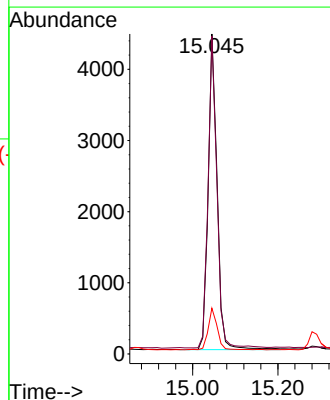
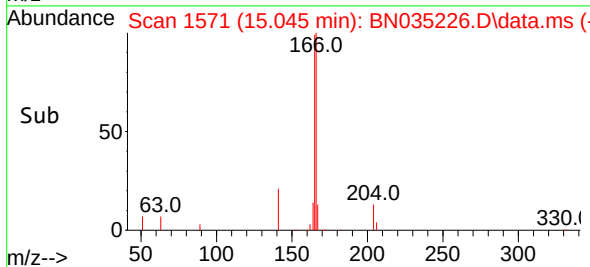
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

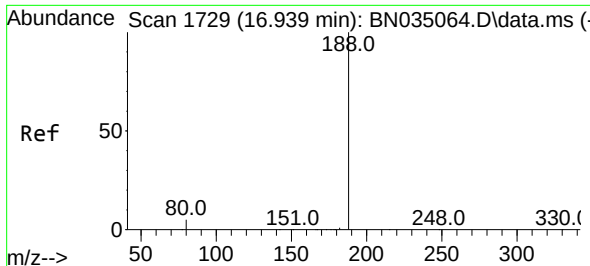


#18
Fluorene
Concen: 0.365 ng
RT: 15.045 min Scan# 1571
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36



Tgt Ion:166 Resp: 6416
Ion Ratio Lower Upper
166 100
165 97.7 79.1 118.7
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.746 min Scan# 11

Delta R.T. -0.001 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

Instrument :

BNA_N

ClientSampleId :

PB165012BS

Tgt Ion:188 Resp: 828

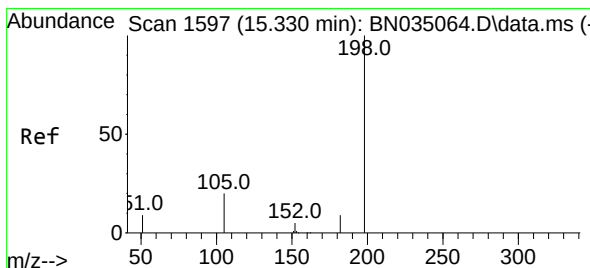
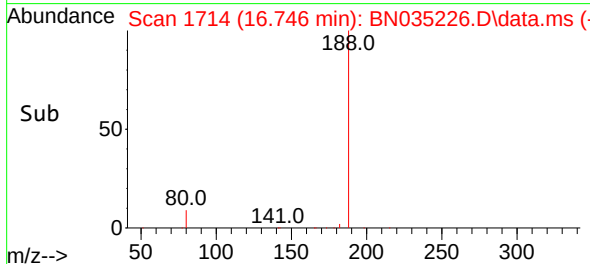
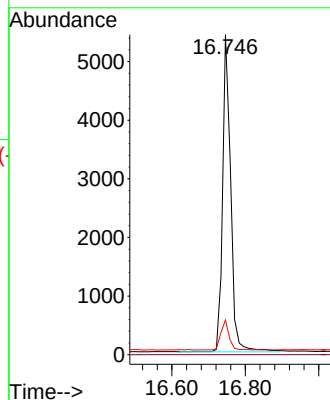
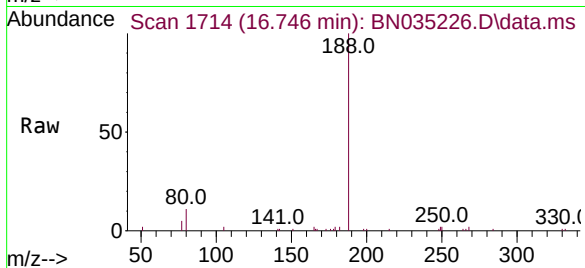
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	4.3	6.5

Manual Integrations

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Supervised By :mohammad ahmed 11/22/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.172 ng

RT: 15.141 min Scan# 1580

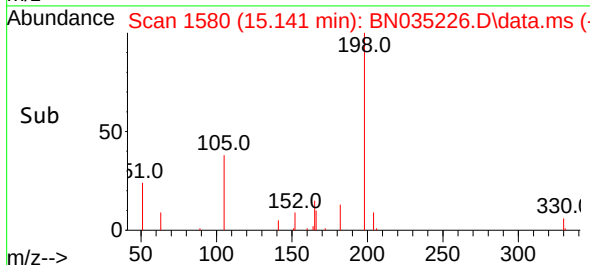
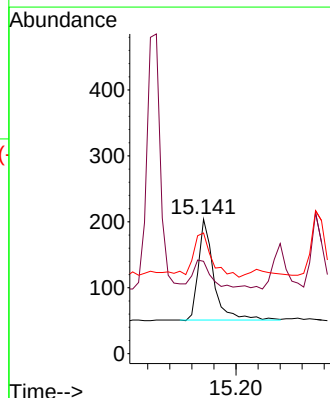
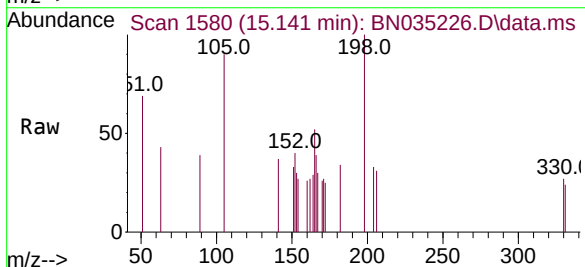
Delta R.T. -0.001 min

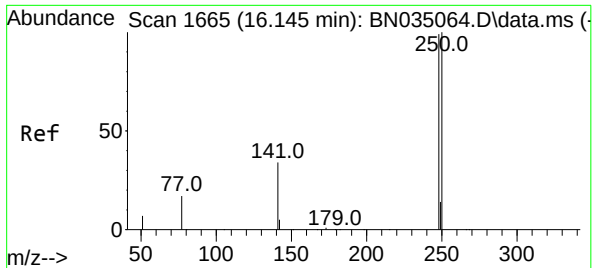
Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

Tgt Ion:198 Resp: 296

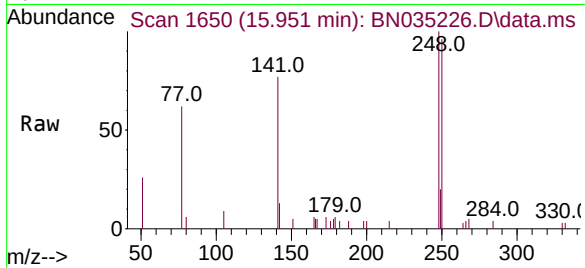
Ion	Ratio	Lower	Upper
198	100		
51	68.6	29.9	44.9#
105	89.7	23.7	35.5#





#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 15.951 min Scan# 1650
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

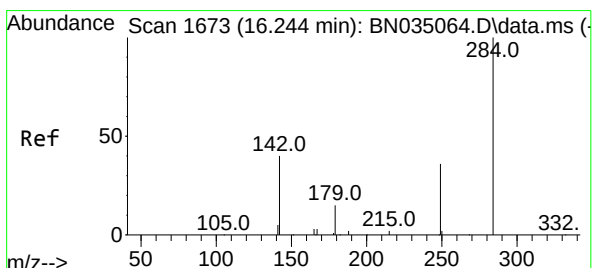
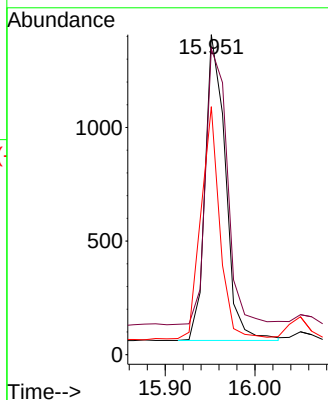
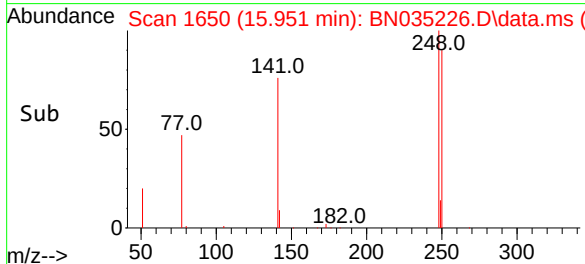
Instrument :
BNA_N
ClientSampleId :
PB165012BS



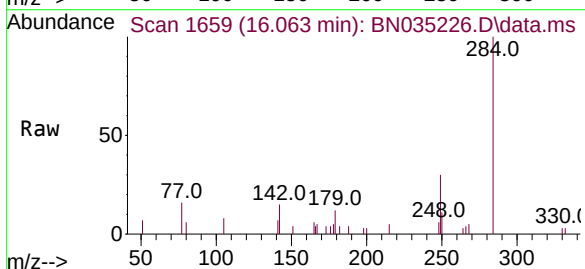
Tgt Ion:248 Resp: 210
Ion Ratio Lower Upper
248 100
250 95.7 81.2 121.8
141 77.5 29.1 43.7

Manual Integrations
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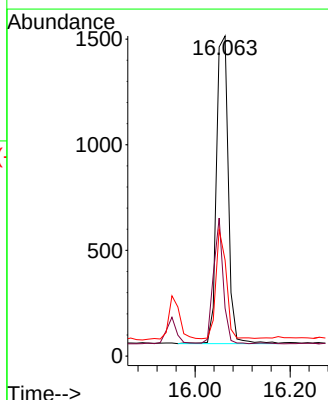
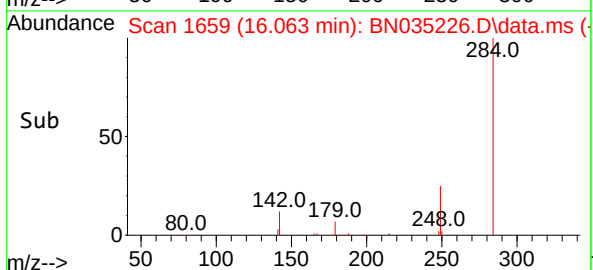
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

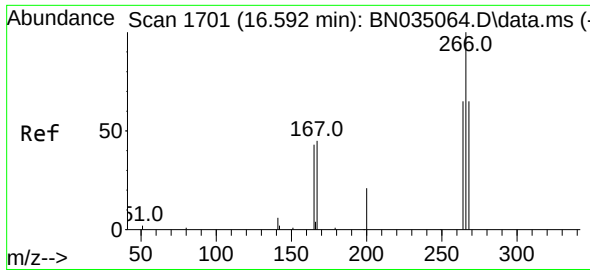


#22
Hexachlorobenzene
Concen: 0.457 ng
RT: 16.063 min Scan# 1659
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36



Tgt Ion:284 Resp: 2505
Ion Ratio Lower Upper
284 100
142 33.7 28.2 42.4
249 31.1 26.2 39.2





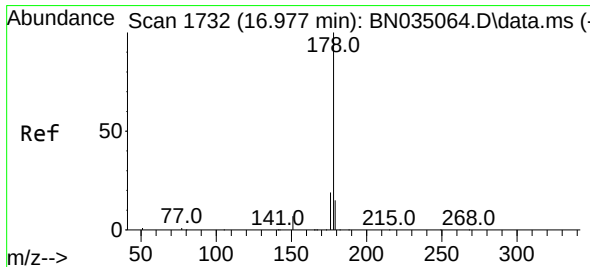
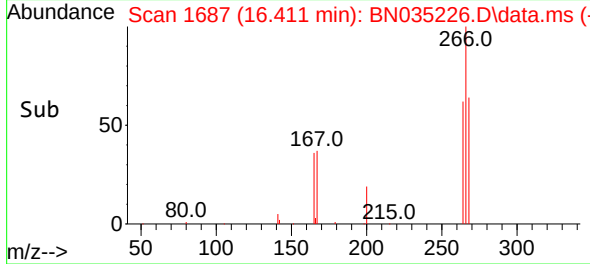
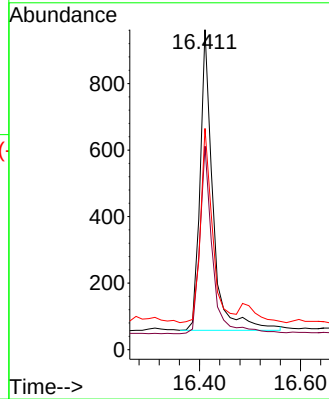
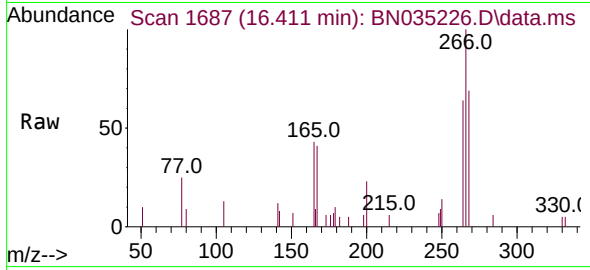
#24
Pentachlorophenol
Concen: 0.627 ng
RT: 16.411 min Scan# 1687
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion:266 Resp: 1600
Ion Ratio Lower Upper
266 100
264 61.3 49.4 74.0
268 60.0 52.6 79.0

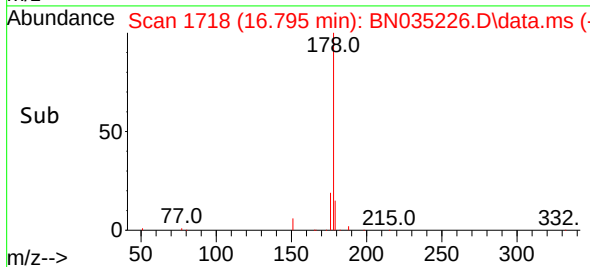
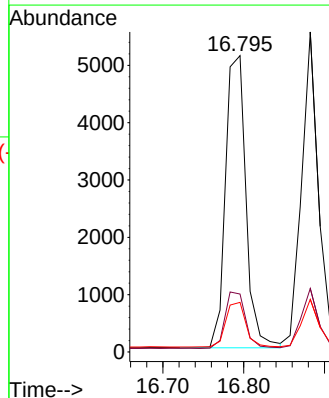
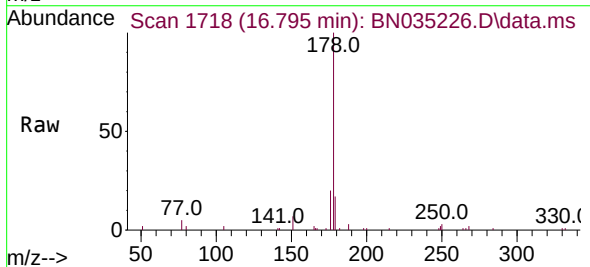
Manual Integrations
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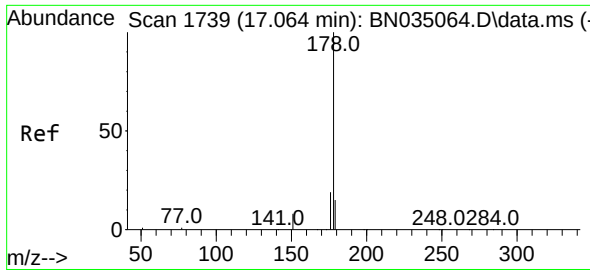
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#25
Phenanthrene
Concen: 0.412 ng
RT: 16.795 min Scan# 1718
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:178 Resp: 8986
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 15.1 12.6 18.8





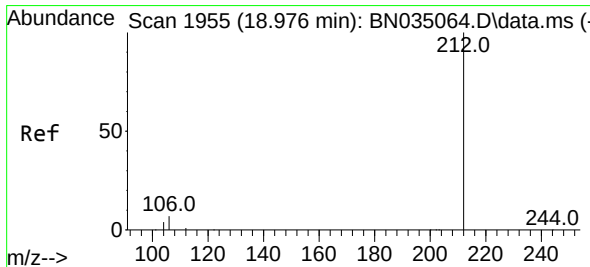
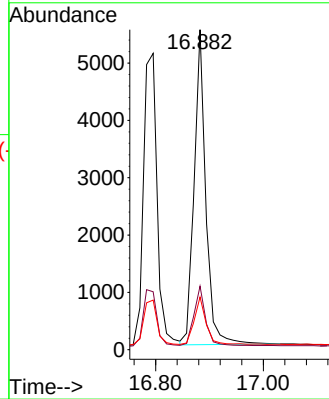
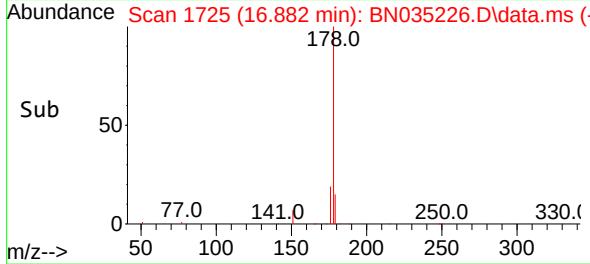
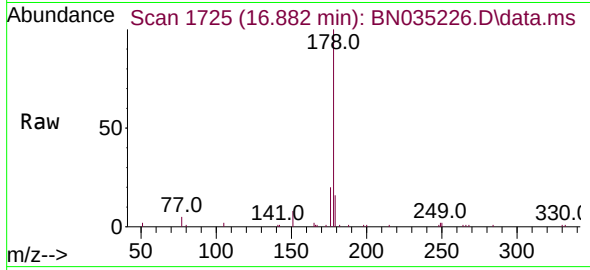
#26
Anthracene
Concen: 0.413 ng
RT: 16.882 min Scan# 11
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion:178 Resp: 828
Ion Ratio Lower Upper
178 100
176 19.1 14.6 22.0
179 15.4 12.2 18.2

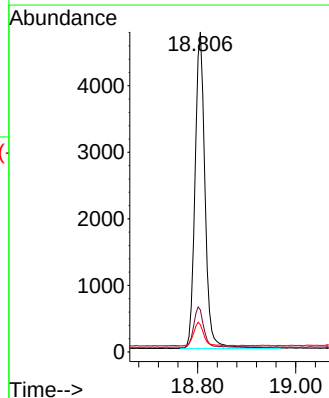
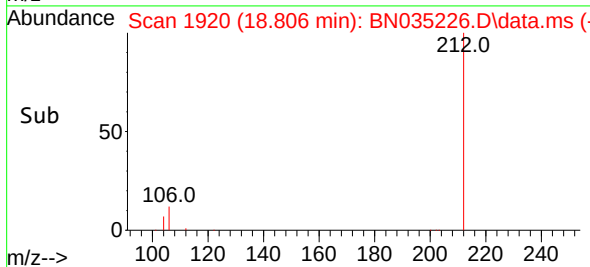
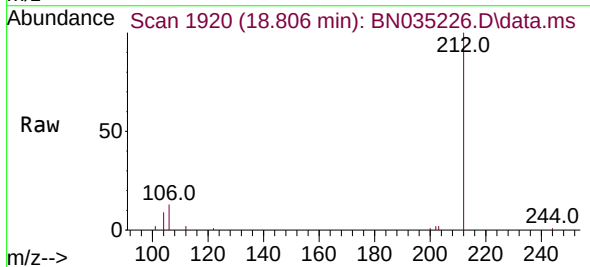
Manual Integrations
APPROVED

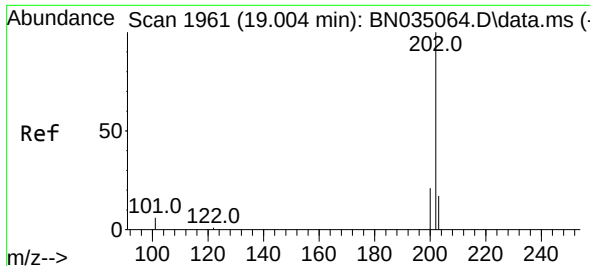
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#27
Fluoranthene-d10
Concen: 0.263 ng
RT: 18.806 min Scan# 1920
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:212 Resp: 6678
Ion Ratio Lower Upper
212 100
106 12.8 6.0 9.0#
104 7.5 3.5 5.3#





#28

Fluoranthene

Concen: 0.283 ng

RT: 18.834 min Scan# 1961

Delta R.T. -0.005 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

Instrument :

BNA_N

ClientSampleId :

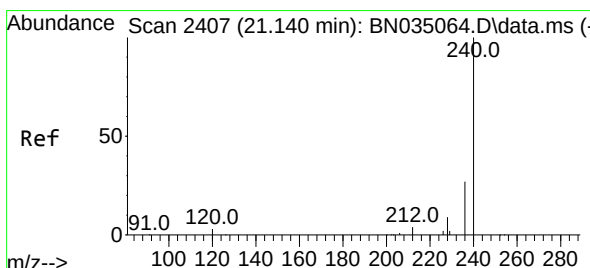
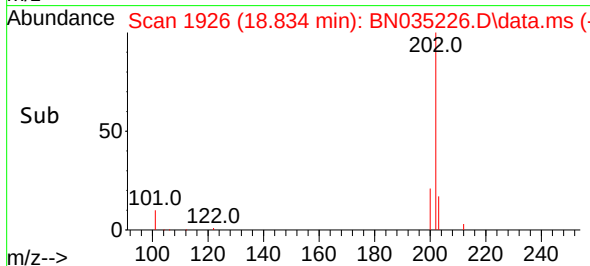
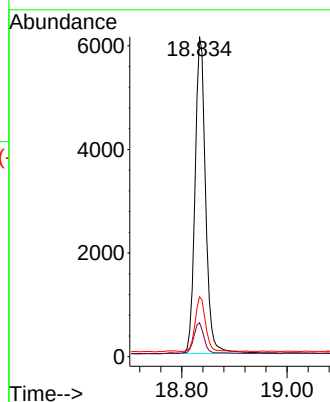
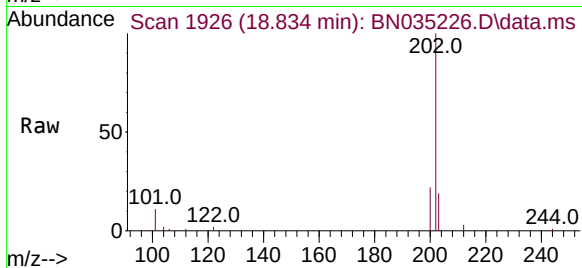
PB165012BS

Tgt Ion:	202	Resp:	8504
Ion Ratio	Lower	Upper	
202	100		
101	9.3	5.2	7.8
203	17.2	13.8	20.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#29

Chrysene-d12

Concen: 0.400 ng

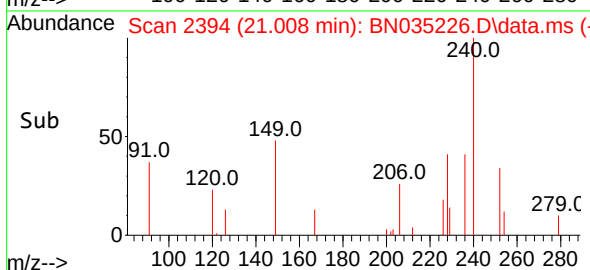
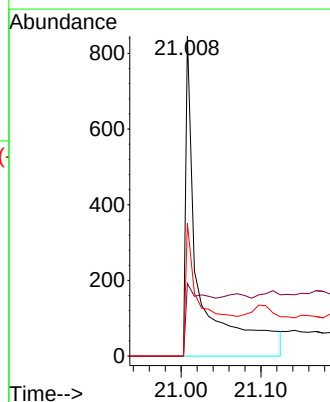
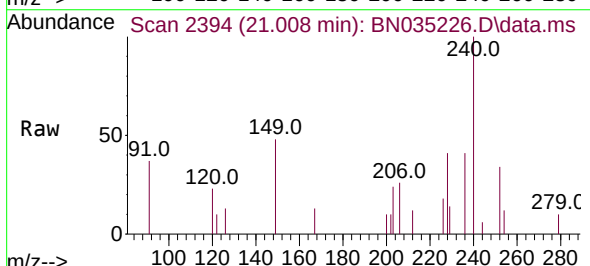
RT: 21.008 min Scan# 2394

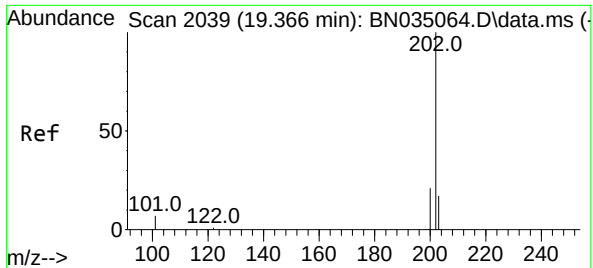
Delta R.T. -0.001 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

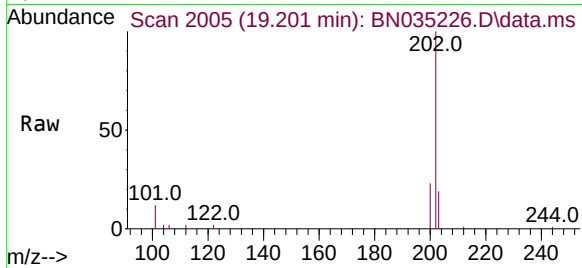
Tgt Ion:	240	Resp:	1030
Ion Ratio	Lower	Upper	
240	100		
120	22.7	3.8	5.6
236	41.5	22.2	33.2





#30
Pyrene
Concen: 2.023 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

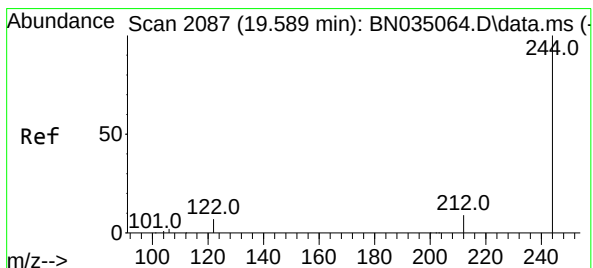
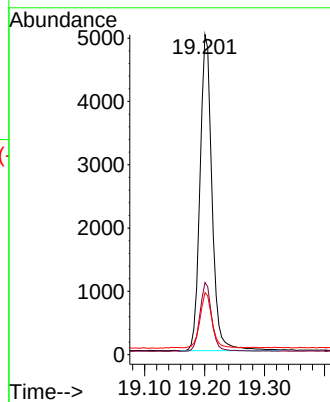
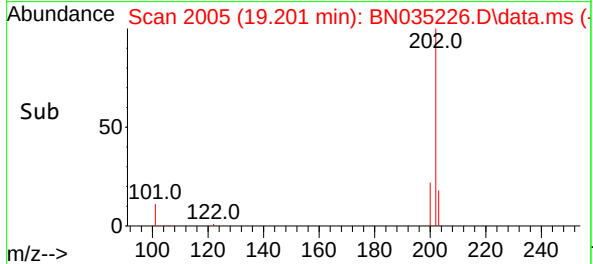
Instrument :
BNA_N
ClientSampleId :
PB165012BS



Tgt Ion:202 Resp: 6940
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 17.3 14.2 21.4

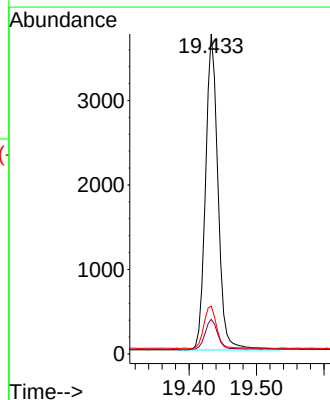
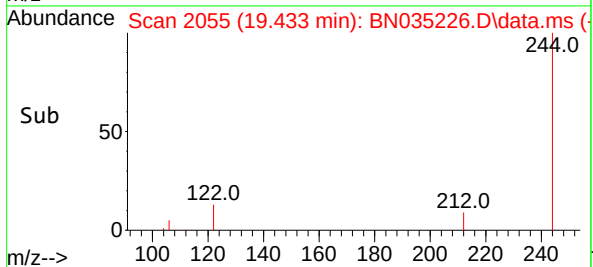
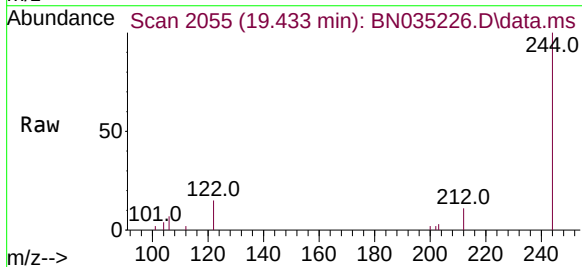
Manual Integrations
APPROVED

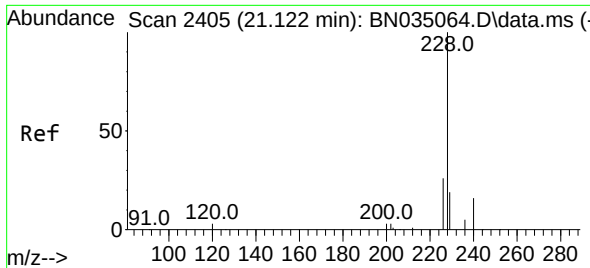
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#31
Terphenyl-d14
Concen: 2.223 ng
RT: 19.433 min Scan# 2055
Delta R.T. -0.005 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

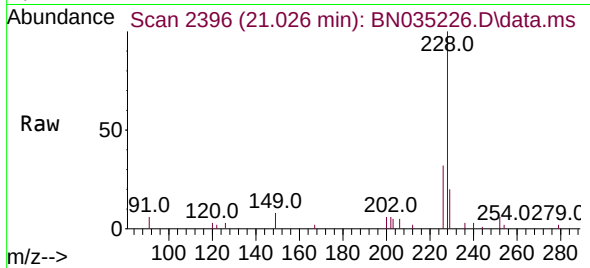
Tgt Ion:244 Resp: 4805
Ion Ratio Lower Upper
244 100
212 10.8 7.6 11.4
122 14.9 6.1 9.1#





#32
Benzo(a)anthracene
Concen: 2.061 ng
RT: 21.026 min Scan# 21
Delta R.T. -0.010 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

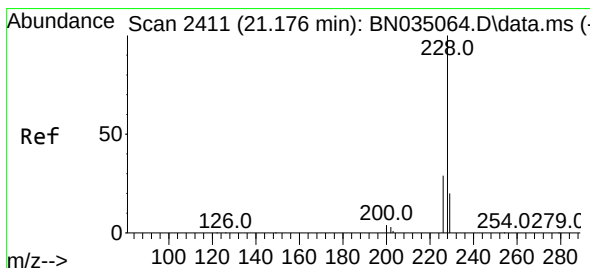
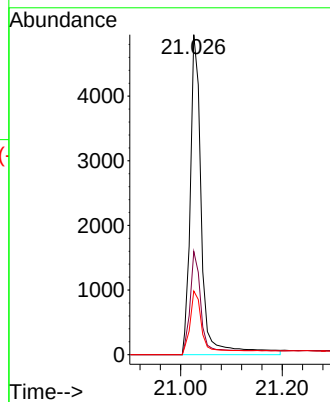
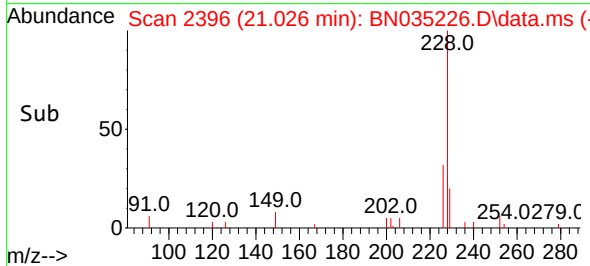
Instrument :
BNA_N
ClientSampleId :
PB165012BS



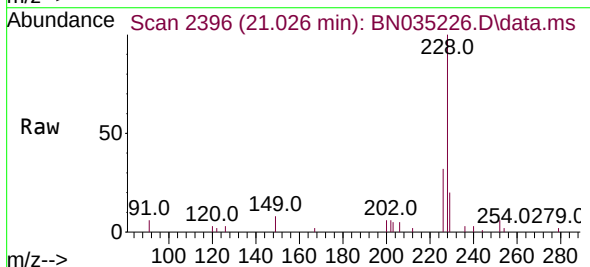
Tgt Ion:228 Resp: 7390
Ion Ratio Lower Upper
228 100
226 32.2 21.4 32.0
229 19.9 15.7 23.5

Manual Integrations
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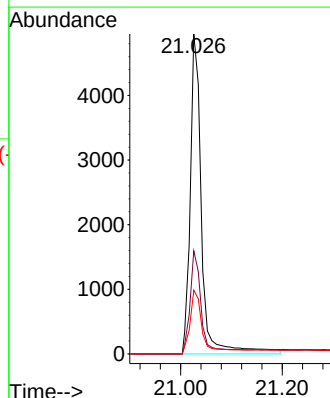
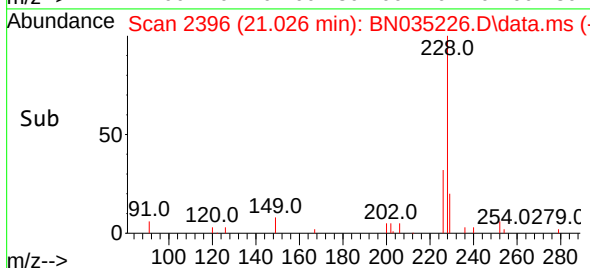
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

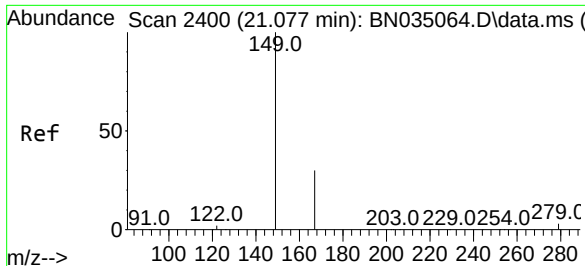


#33
Chrysene
Concen: 2.080 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.010 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36



Tgt Ion:228 Resp: 7390
Ion Ratio Lower Upper
228 100
226 32.2 23.7 35.5
229 19.9 16.2 24.4





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.473 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035226.D

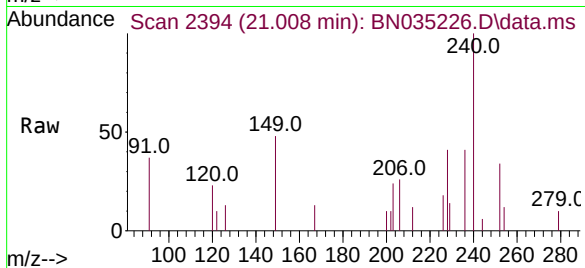
Acq: 21 Nov 2024 17:36

Instrument :

BNA_N

ClientSampleId :

PB165012BS



Tgt Ion:149 Resp: 89

Ion Ratio Lower Upper

149 100

167 20.0 23.2 34.8

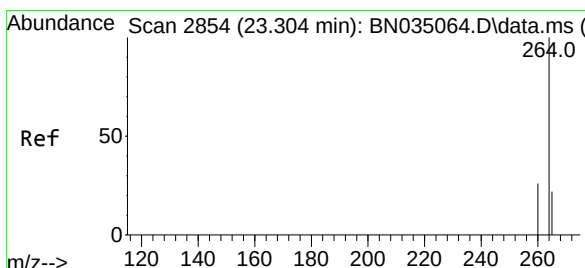
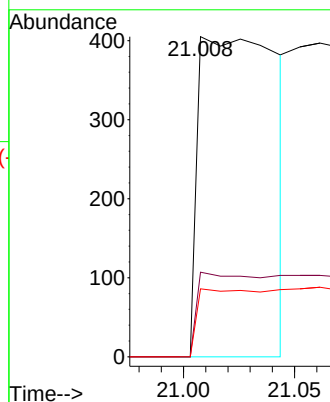
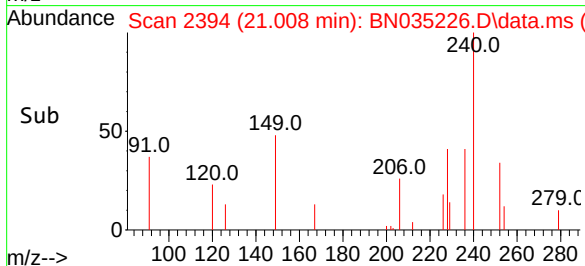
279 16.3 3.2 4.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.101 min Scan# 2788

Delta R.T. -0.003 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

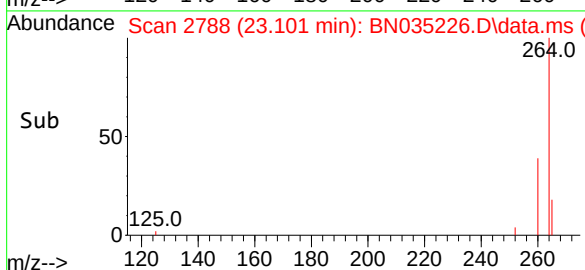
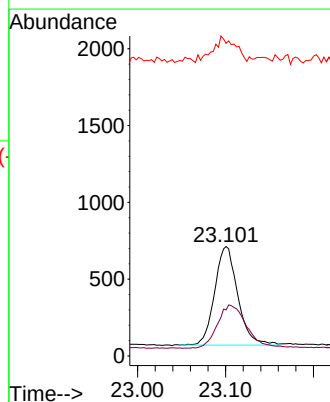
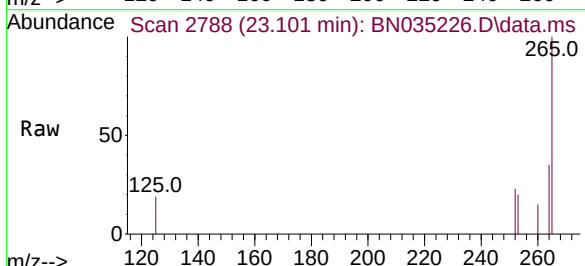
Tgt Ion:264 Resp: 1173

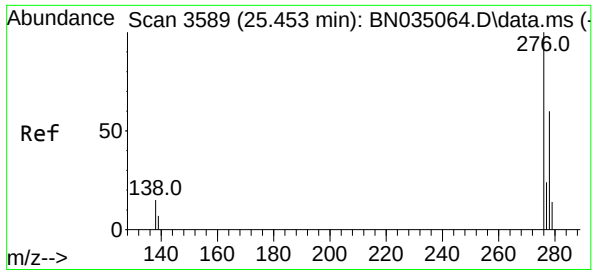
Ion Ratio Lower Upper

264 100

260 42.1 20.9 31.3#

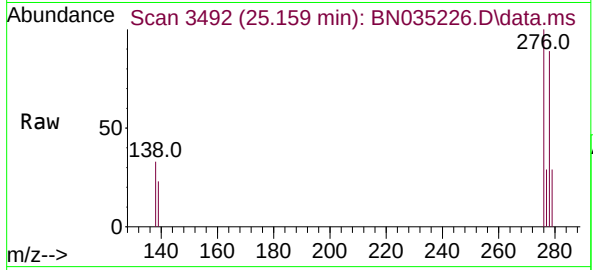
265 285.4 35.4 53.2#





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.951 ng
RT: 25.159 min Scan# 3492
Delta R.T. 0.002 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

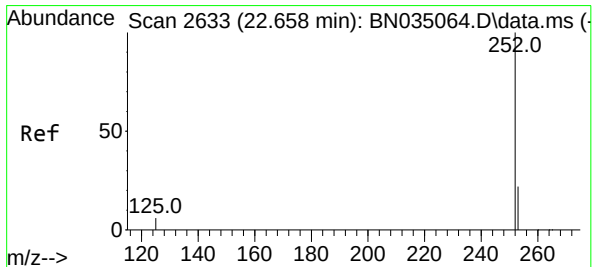
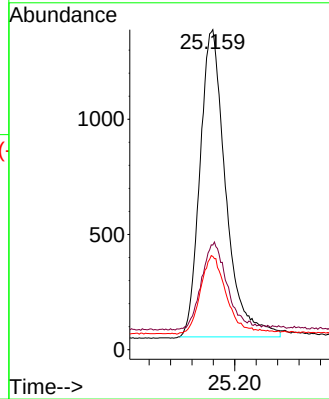
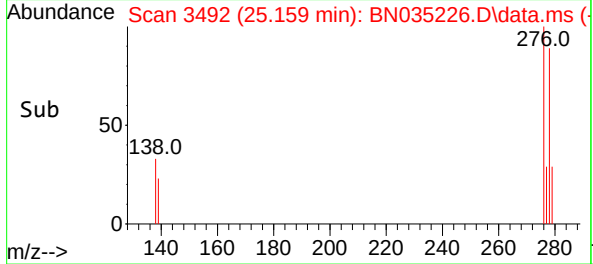
Instrument :
BNA_N
ClientSampleId :
PB165012BS



Tgt Ion:276 Resp: 445
Ion Ratio Lower Upper
276 100
138 26.3 13.0 19.4
277 22.9 19.8 29.6

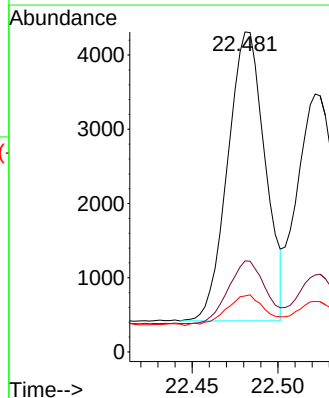
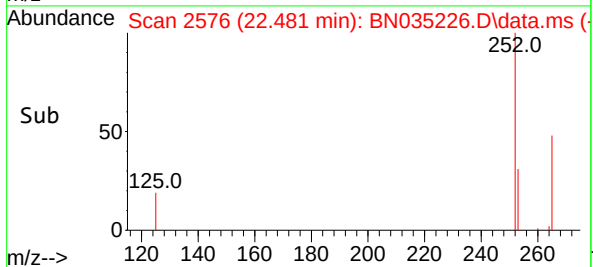
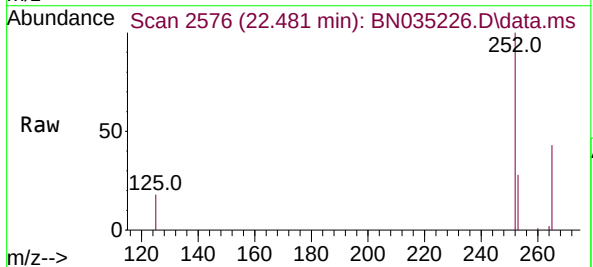
Manual Integrations
APPROVED

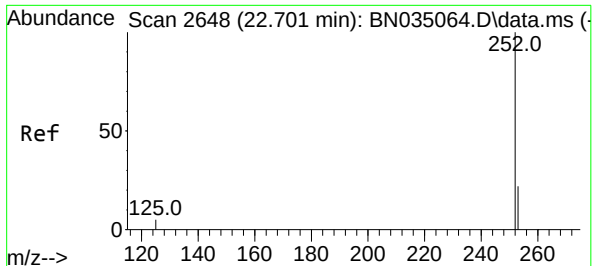
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#37
Benzo(b)fluoranthene
Concen: 1.494 ng
RT: 22.481 min Scan# 2576
Delta R.T. -0.006 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:252 Resp: 5897
Ion Ratio Lower Upper
252 100
253 28.5 19.3 28.9
125 17.5 6.2 9.2#





#38

Benzo(k)fluoranthene

Concen: 1.260 ng

RT: 22.522 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

Instrument :

BNA_N

ClientSampleId :

PB165012BS

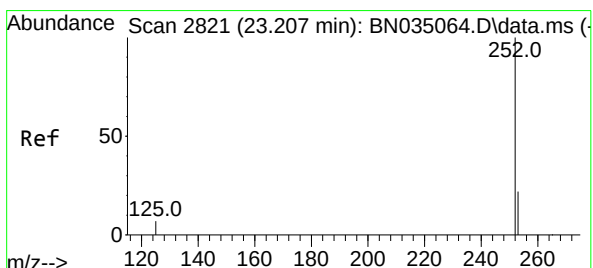
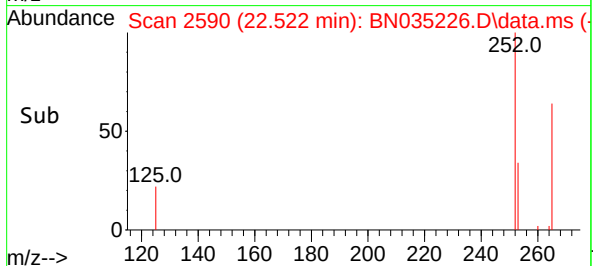
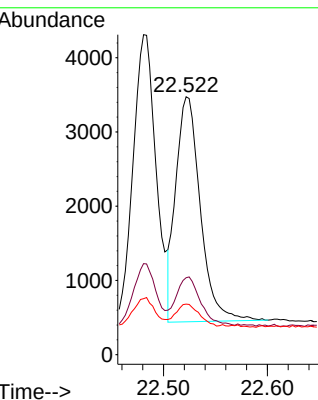
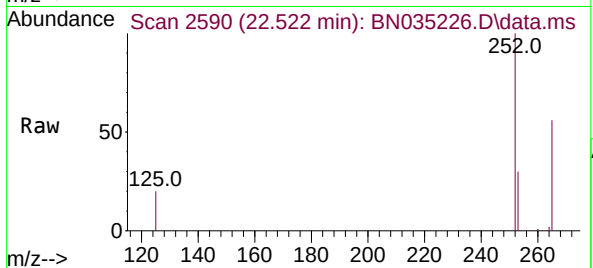
Tgt Ion:	252	Resp:	4970
Ion Ratio	Lower	Upper	
252	100		
253	29.9	19.5	29.3#
125	19.6	6.5	9.7#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#39

Benzo(a)pyrene

Concen: 0.991 ng

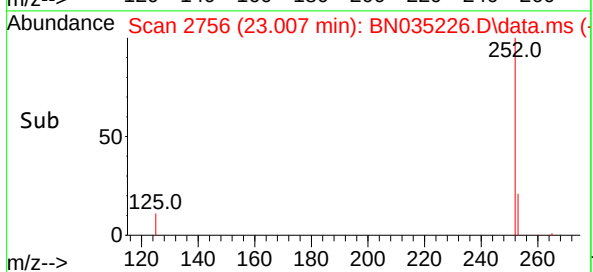
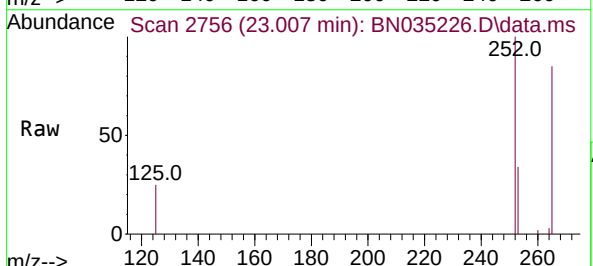
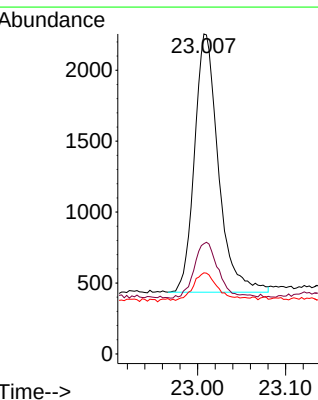
RT: 23.007 min Scan# 2756

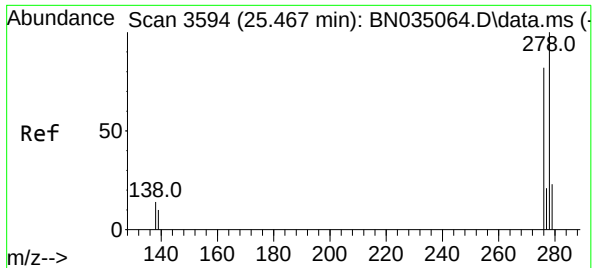
Delta R.T. -0.006 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

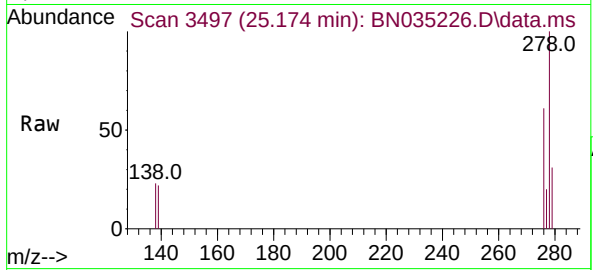
Tgt Ion:	252	Resp:	3441
Ion Ratio	Lower	Upper	
252	100		
253	34.4	20.1	30.1#
125	25.4	7.5	11.3#





#40
Dibenzo(a,h)anthracene
Concen: 1.276 ng
RT: 25.174 min Scan# 34
Delta R.T. -0.003 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

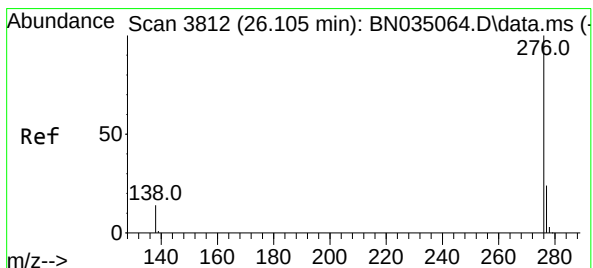
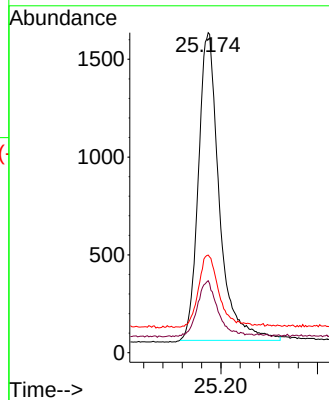
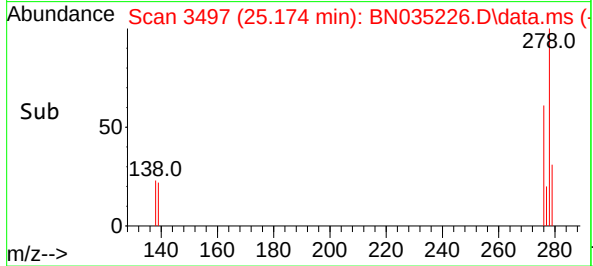
Instrument :
BNA_N
ClientSampleId :
PB165012BS



Tgt Ion:278 Resp: 473
Ion Ratio Lower Upper
278 100
139 22.5 9.3 13.9
279 30.5 19.7 29.5

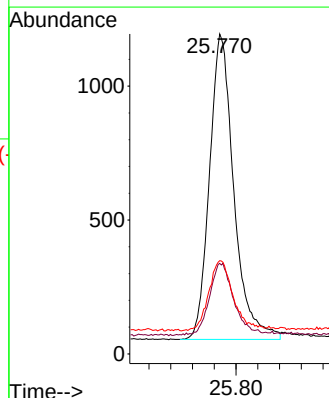
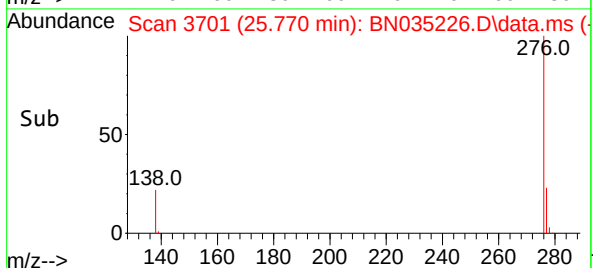
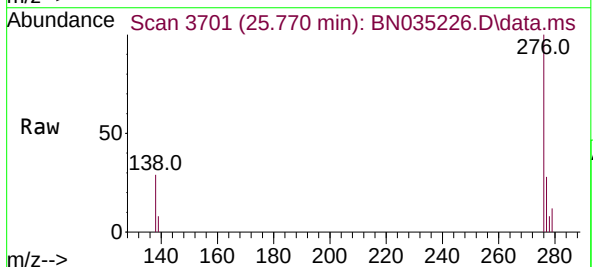
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#41
Benzo(g,h,i)perylene
Concen: 0.899 ng
RT: 25.770 min Scan# 3701
Delta R.T. -0.006 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:276 Resp: 3544
Ion Ratio Lower Upper
276 100
277 28.3 19.9 29.9
138 29.1 11.6 17.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165012BSD	SDG No.:	P4866
Lab Sample ID:	PB165012BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035227.D	1	11/15/24 12:05	11/21/24 18:12	PB165012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.39		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		55 - 111		60%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.075	*	53 - 106		19%	SPK: 0.4
1718-51-0	Terphenyl-d14	2.27	*	58 - 132		567%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3070	7.329				
1146-65-2	Naphthalene-d8	6970	10.073				
15067-26-2	Acenaphthene-d10	4030	13.976				
1517-22-2	Phenanthrene-d10	7680	16.746				
1719-03-5	Chrysene-d12	1000	21.008				
1520-96-3	Perylene-d12	3420	23.098				

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\BN112124\
 Data File : BN035227.D
 Acq On : 21 Nov 2024 18:12
 Operator : RC/JU
 Sample : PB165012BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165012BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 23:04:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3072	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6967	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	4025	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	7680	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1000	0.400	ng	# 0.00
35) Perylene-d12	23.098	264	3421	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	3209	0.411	ng	0.00
5) Phenol-d6	6.528	99	3894	0.398	ng	0.00
8) Nitrobenzene-d5	8.461	82	1441m	0.238	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	4335	0.349	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	895	0.308	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1227	0.075	ng	0.00
27) Fluoranthene-d10	18.802	212	7158	0.304	ng	0.00
31) Terphenyl-d14	19.433	244	4758	2.267	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.018	88	1081	0.387	ng	# 53
3) n-Nitrosodimethylamine	3.307	42	1020	0.392	ng	# 88
6) bis(2-Chloroethyl)ether	6.773	93	3240	0.441	ng	95
9) Naphthalene	10.127	128	7731	0.425	ng	99
10) Hexachlorobutadiene	10.426	225	1723	0.323	ng	# 99
12) 2-Methylnaphthalene	11.754	142	5176	0.386	ng	96
16) Acenaphthylene	13.698	152	7981	0.464	ng	98
17) Acenaphthene	14.040	154	4831	0.429	ng	99
18) Fluorene	15.045	166	6268	0.378	ng	100
20) 4,6-Dinitro-2-methylph...	15.142	198	275	0.172	ng	# 14
21) 4-Bromophenyl-phenylether	15.952	248	2039	0.417	ng	# 80
22) Hexachlorobenzene	16.051	284	2404	0.473	ng	97
24) Pentachlorophenol	16.411	266	1422	0.599	ng	99
25) Phenanthrene	16.784	178	8786	0.435	ng	99
26) Anthracene	16.883	178	8563	0.461	ng	99
28) Fluoranthene	18.834	202	8986	0.323	ng	# 97
30) Pyrene	19.201	202	9061	2.721	ng	99
32) Benzo(a)anthracene	21.026	228	8491	2.439	ng	94
33) Chrysene	21.026	228	8491	2.462	ng	97
34) Bis(2-ethylhexyl)phtha...	21.026	149	1089	0.596	ng	# 73
36) Indeno(1,2,3-cd)pyrene	25.151	276	8532	0.625	ng	# 90
37) Benzo(b)fluoranthene	22.481	252	8039	0.698	ng	# 90
38) Benzo(k)fluoranthene	22.519	252	8091	0.703	ng	# 91
39) Benzo(a)pyrene	23.008	252	6718	0.663	ng	# 87
40) Dibenzo(a,h)anthracene	25.171	278	7121	0.659	ng	# 89
41) Benzo(g,h,i)perylene	25.768	276	6570	0.571	ng	# 88

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035227.D
 Acq On : 21 Nov 2024 18:12
 Operator : RC/JU
 Sample : PB165012BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

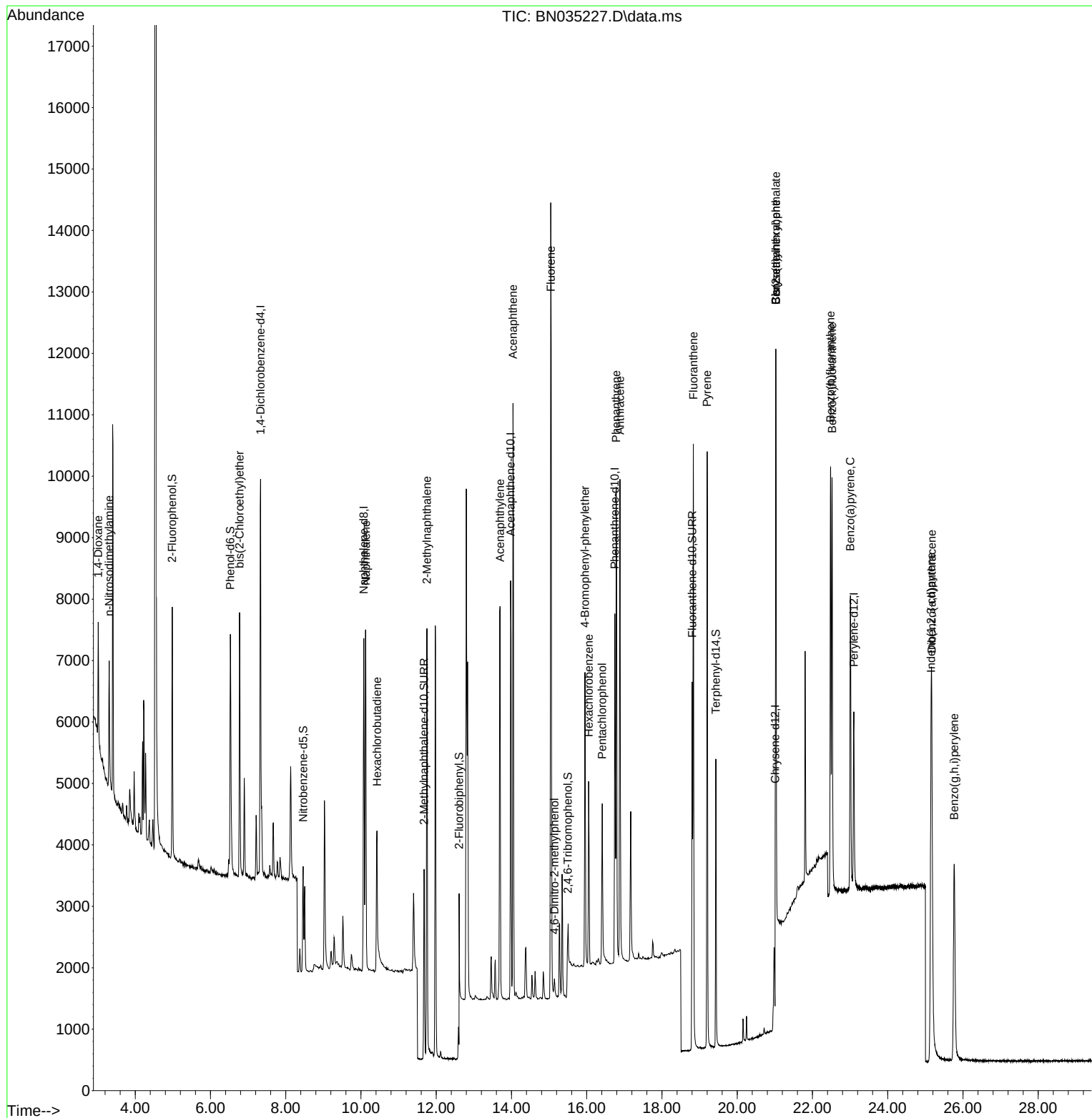
PB165012BSD

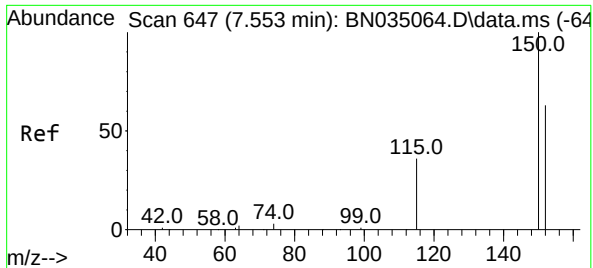
Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024

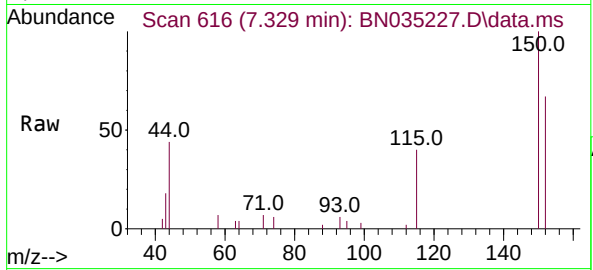
Quant Time: Nov 21 23:04:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

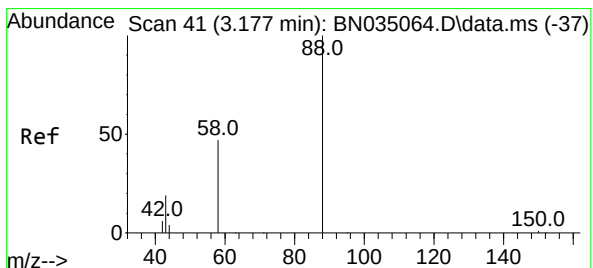
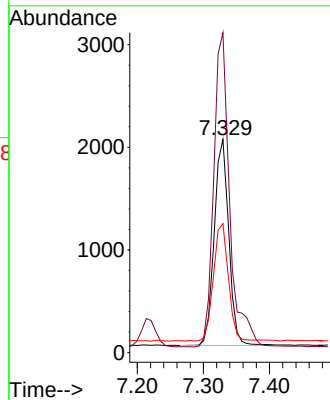
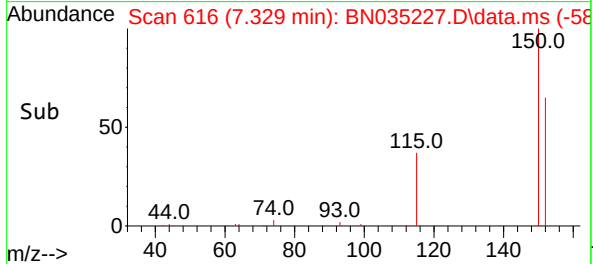
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



Tgt Ion: 152 Resp: 3072
Ion Ratio Lower Upper
152 100
150 150.1 124.5 186.7
115 60.6 47.8 71.6

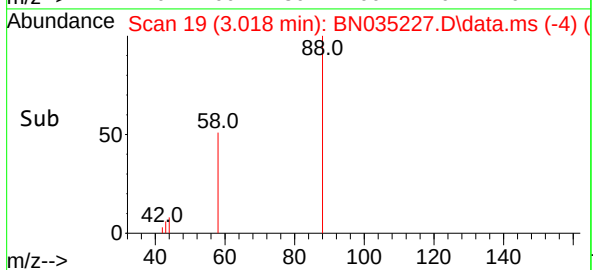
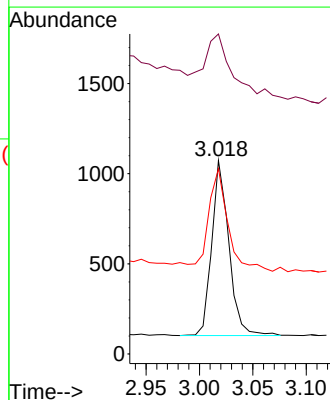
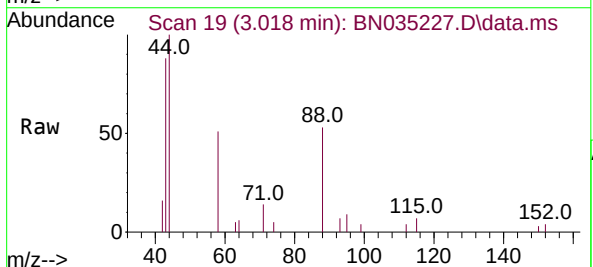
Manual Integrations
APPROVED

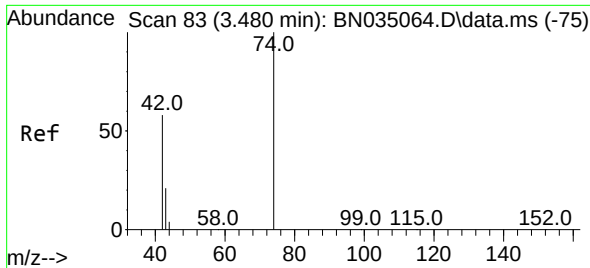
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#2
1,4-Dioxane
Concen: 0.387 ng
RT: 3.018 min Scan# 19
Delta R.T. 0.007 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

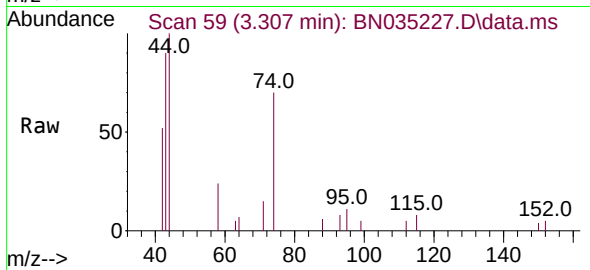
Tgt Ion: 88 Resp: 1081
Ion Ratio Lower Upper
88 100
43 65.0 16.9 25.3#
58 66.7 39.0 58.4#





#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.307 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

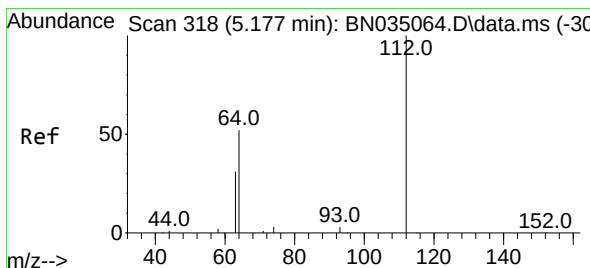
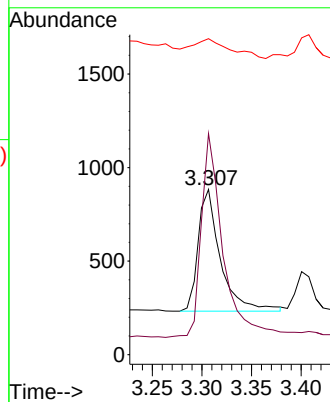
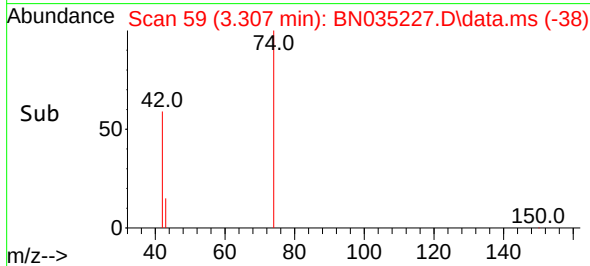
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



Tgt Ion: 42 Resp: 1020
Ion Ratio Lower Upper
42 100
74 165.1 120.8 181.2
44 27.1 2.9 4.3

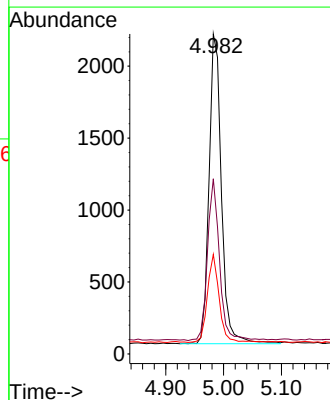
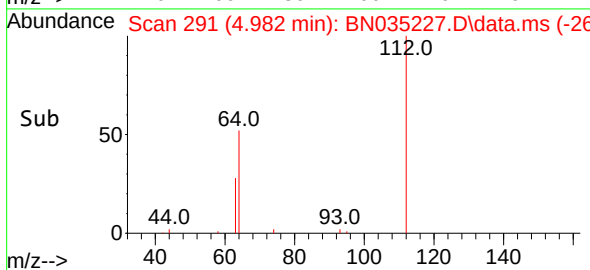
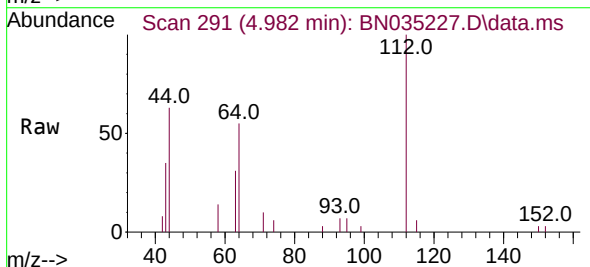
Manual Integrations
APPROVED

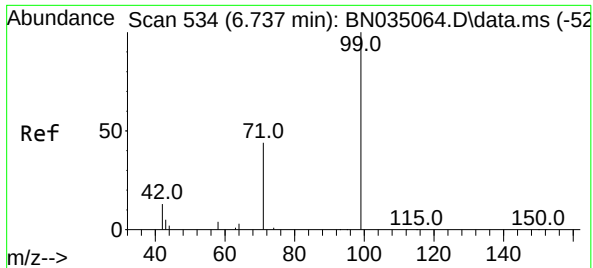
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#4
2-Fluorophenol
Concen: 0.411 ng
RT: 4.982 min Scan# 291
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:112 Resp: 3209
Ion Ratio Lower Upper
112 100
64 50.9 39.7 59.5
63 27.3 23.0 34.4





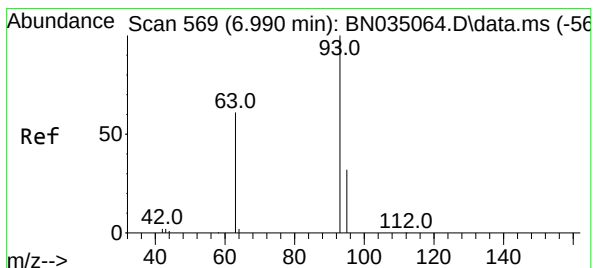
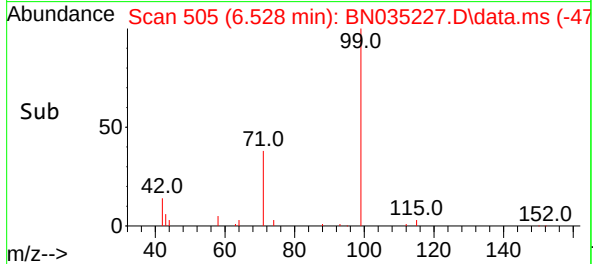
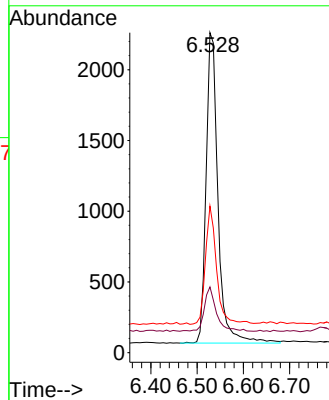
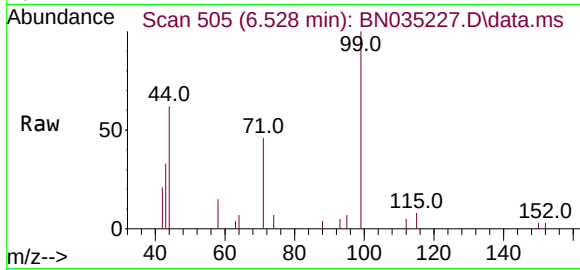
#5
Phenol-d6
Concen: 0.398 ng
RT: 6.528 min Scan# 505
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.8	11.4	17.0
71	35.4	34.6	51.8

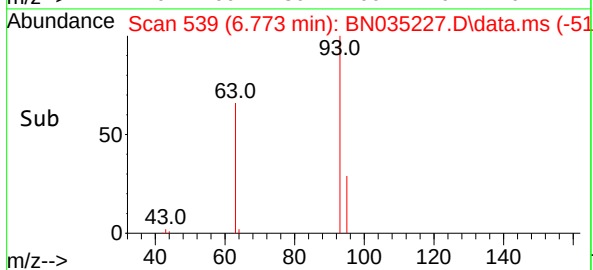
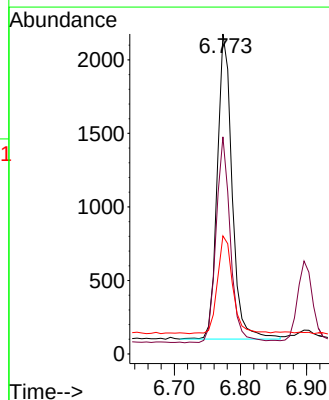
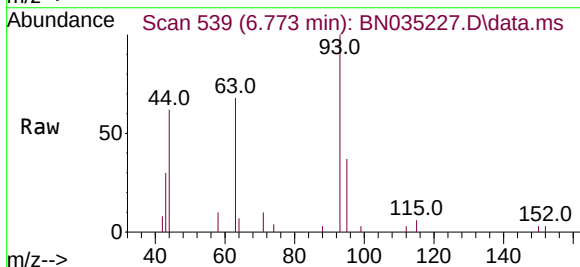
Manual Integrations
APPROVED

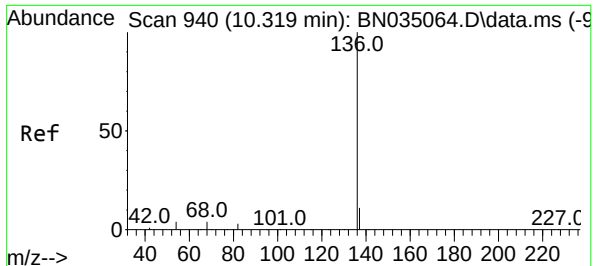
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.441 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion	Ratio	Lower	Upper
93	100		
63	65.1	47.4	71.2
95	32.7	26.2	39.4





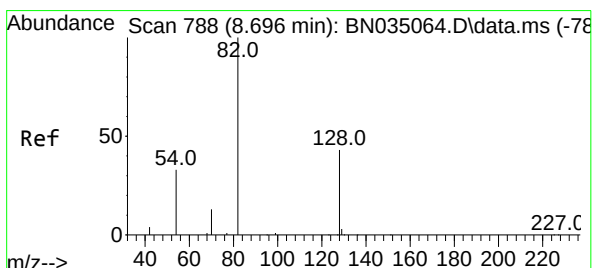
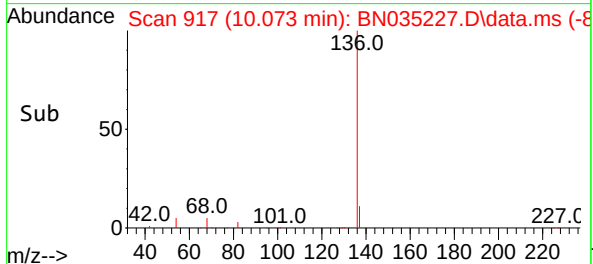
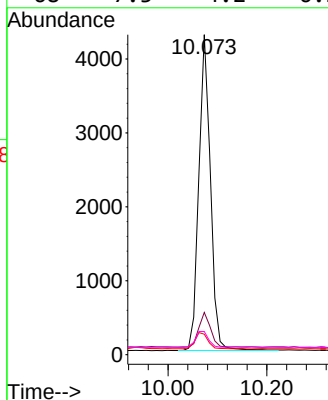
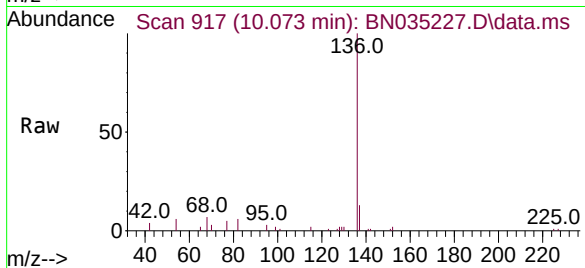
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

Tgt Ion:	136	Resp:	696
Ion	Ratio	Lower	Upper
136	100		
137	13.2	9.8	14.8
54	6.4	4.0	6.0
68	7.3	4.2	6.2

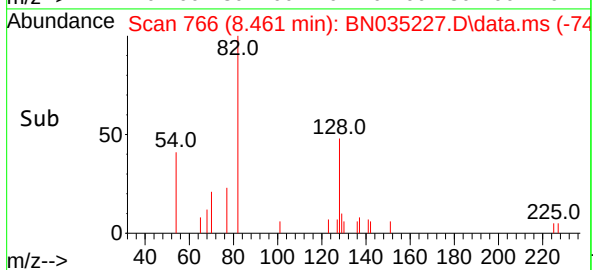
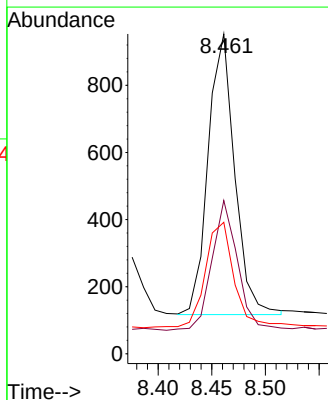
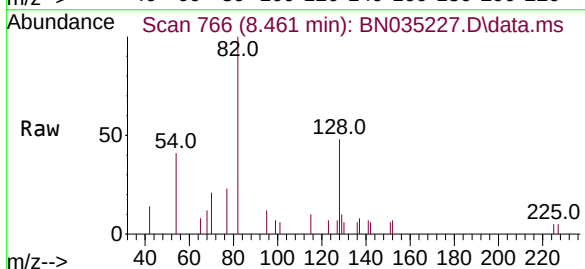
Manual Integrations
APPROVED

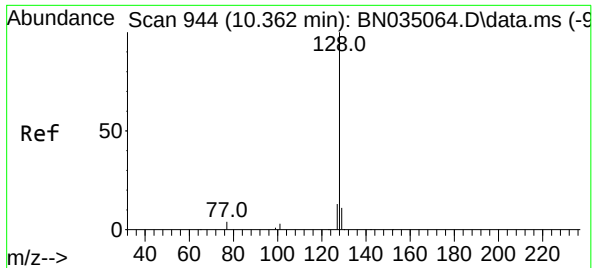
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#8
Nitrobenzene-d5
Concen: 0.238 ng m
RT: 8.461 min Scan# 766
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:	82	Resp:	1441
Ion	Ratio	Lower	Upper
82	100		
128	48.0	36.5	54.7
54	41.1	28.7	43.1





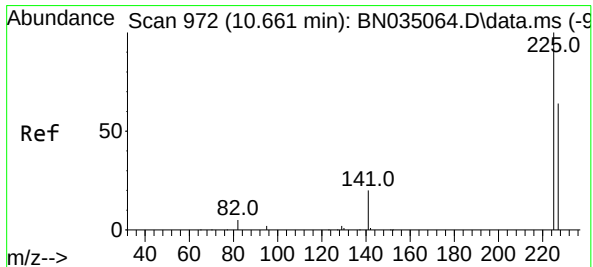
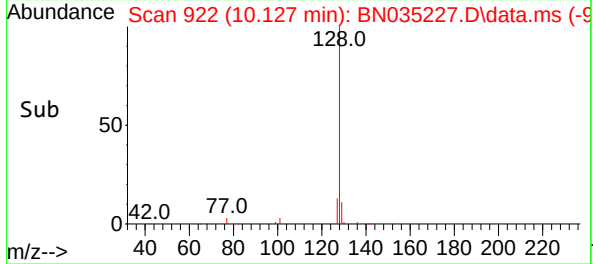
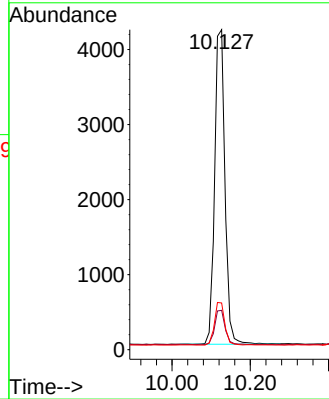
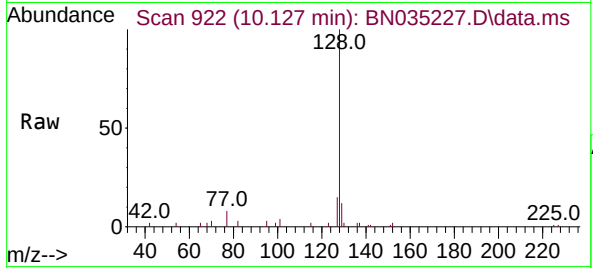
#9
Naphthalene
Concen: 0.425 ng
RT: 10.127 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

Tgt Ion:128 Resp: 773
Ion Ratio Lower Upper
128 100
129 12.3 9.6 14.4
127 14.6 11.6 17.4

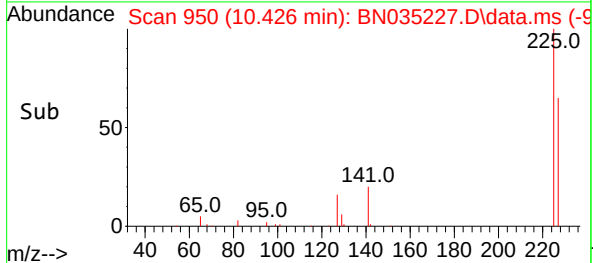
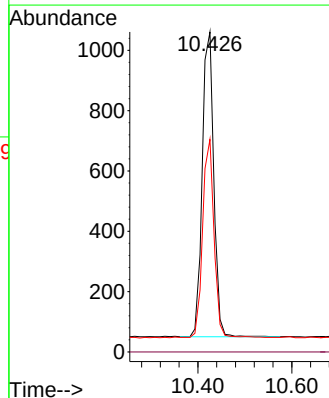
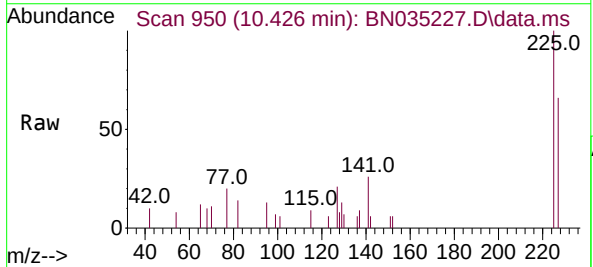
Manual Integrations
APPROVED

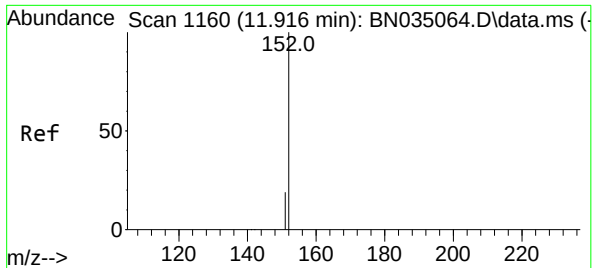
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.426 min Scan# 950
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

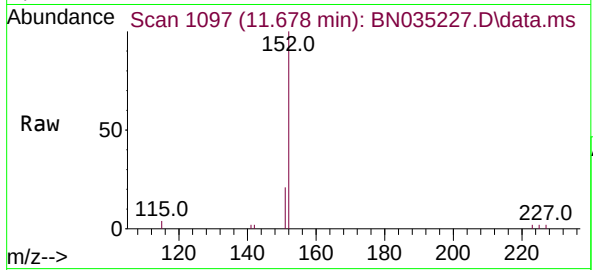
Tgt Ion:225 Resp: 1723
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.5 77.3





#11
2-Methylnaphthalene-d10
Concen: 0.349 ng
RT: 11.678 min Scan# 1107
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

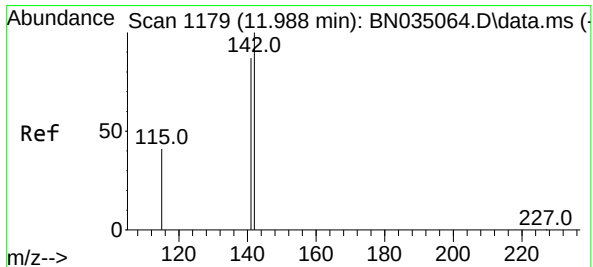
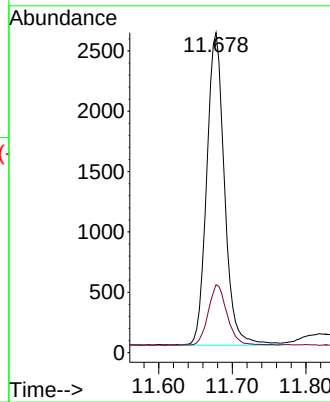
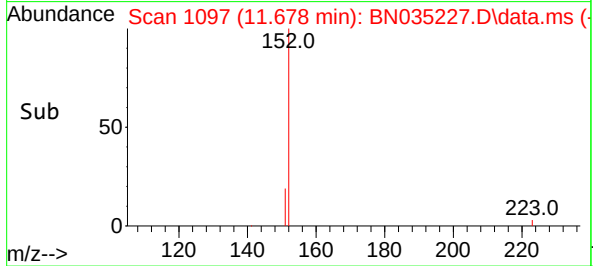
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



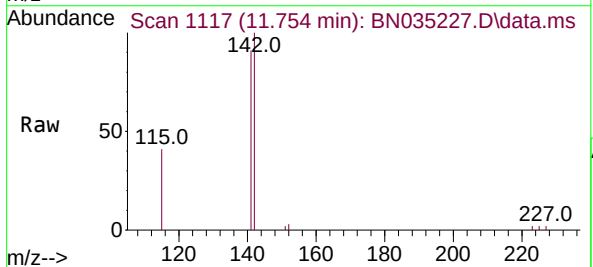
Tgt Ion:152 Resp: 433
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.4

Manual Integrations
APPROVED

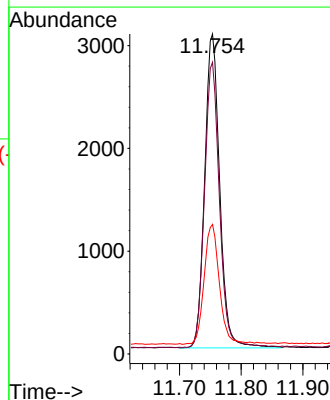
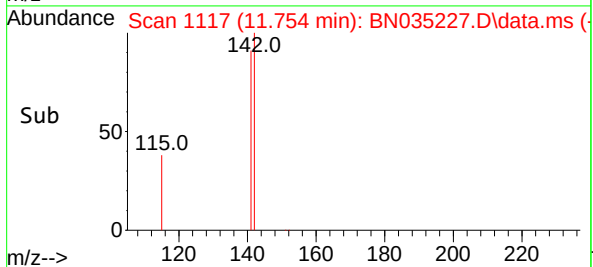
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

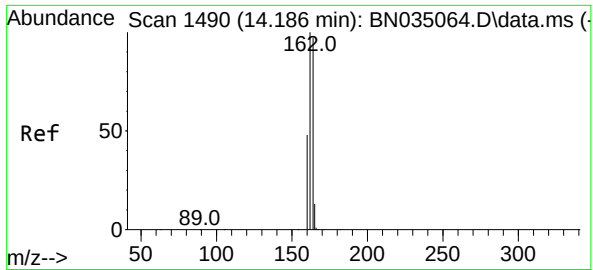


#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 11.754 min Scan# 1117
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12



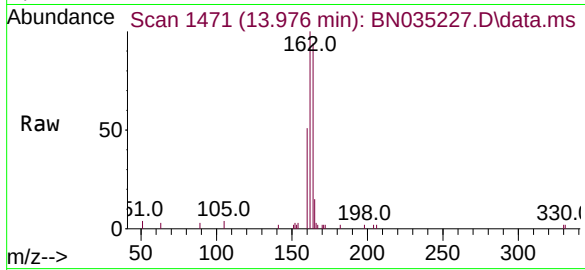
Tgt Ion:142 Resp: 5176
Ion Ratio Lower Upper
142 100
141 91.2 70.1 105.1
115 40.5 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

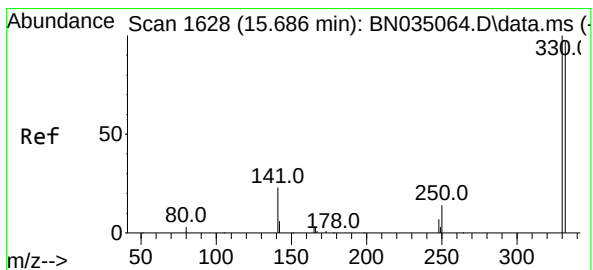
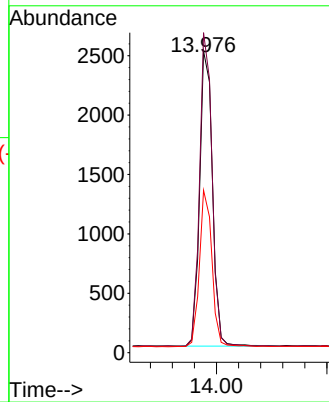
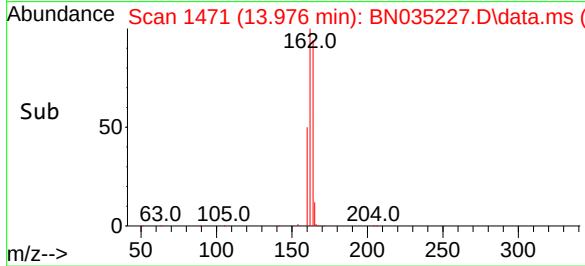
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



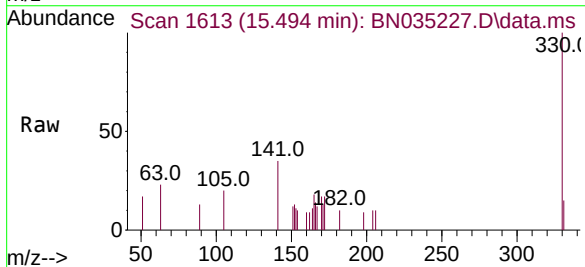
Tgt Ion:164 Resp: 402
Ion Ratio Lower Upper
164 100
162 106.1 82.2 123.2
160 53.8 40.2 60.4

Manual Integrations
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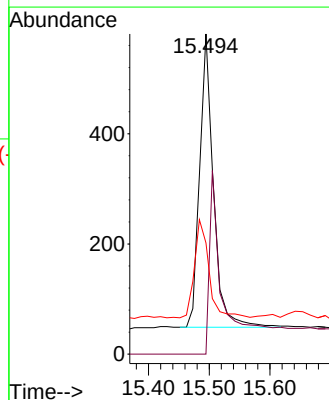
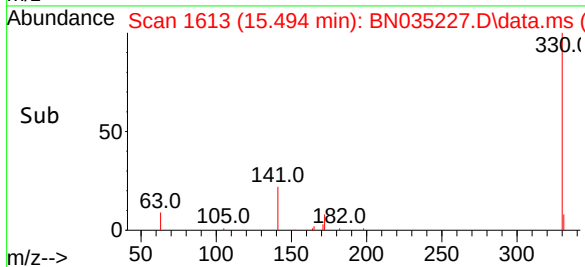
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

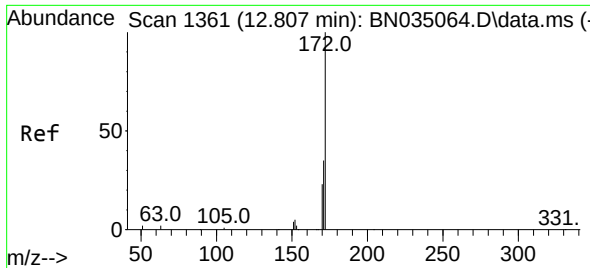


#14
2,4,6-Tribromophenol
Concen: 0.308 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12



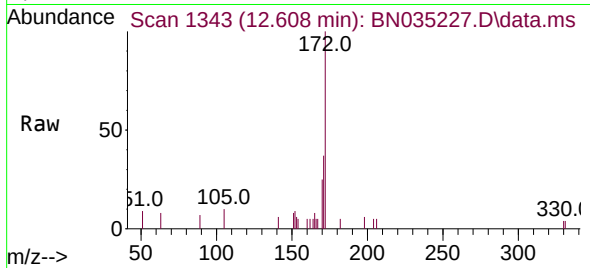
Tgt Ion:330 Resp: 895
Ion Ratio Lower Upper
330 100
332 75.5 76.9 115.3#
141 0.0 29.6 44.4#





#15
2-Fluorobiphenyl
Concen: 0.075 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

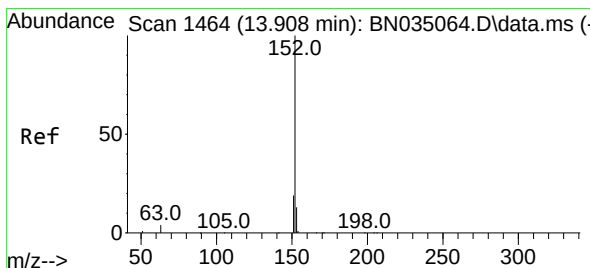
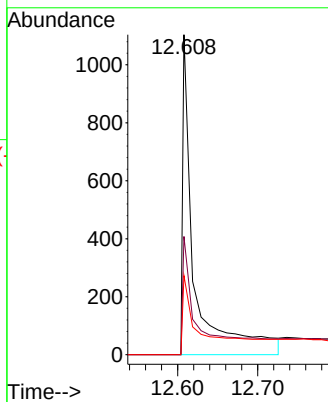
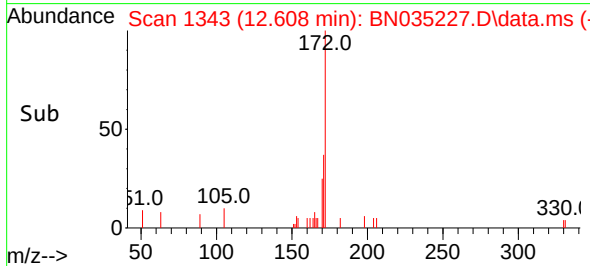
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



Tgt Ion:172 Resp: 122
Ion Ratio Lower Upper
172 100
171 37.0 28.2 42.4
170 24.7 19.0 28.6

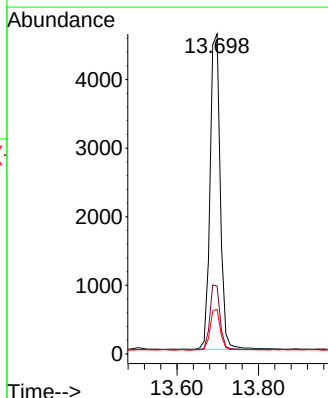
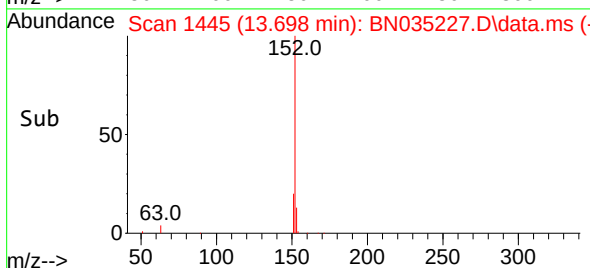
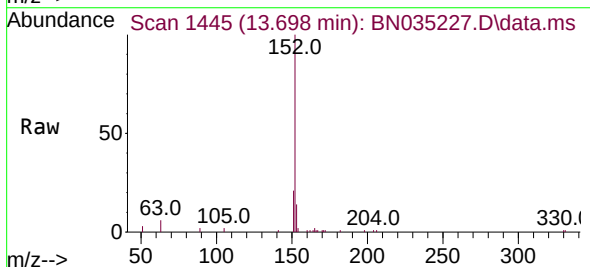
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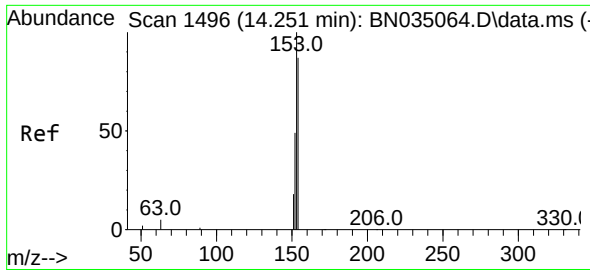
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#16
Acenaphthylene
Concen: 0.464 ng
RT: 13.698 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

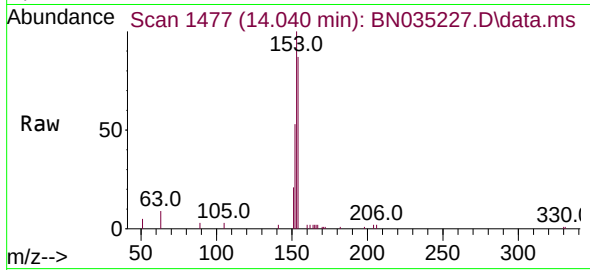
Tgt Ion:152 Resp: 7981
Ion Ratio Lower Upper
152 100
151 20.7 15.8 23.8
153 13.4 10.2 15.4





#17
Acenaphthene
Concen: 0.429 ng
RT: 14.040 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

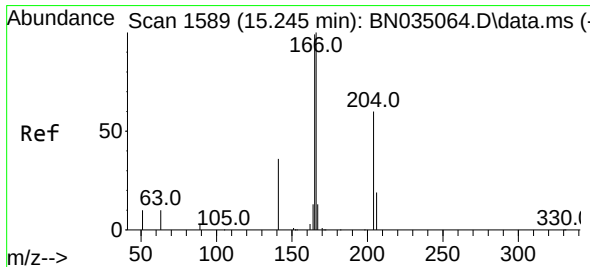
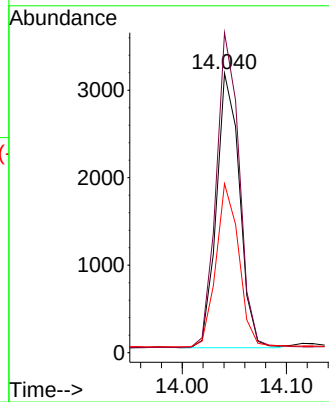
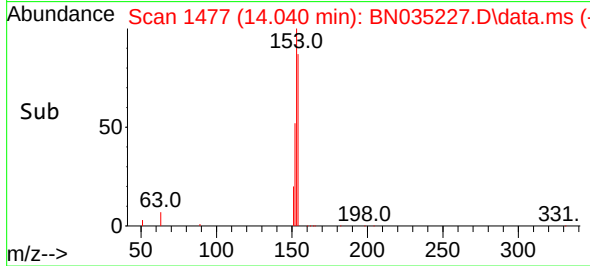
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



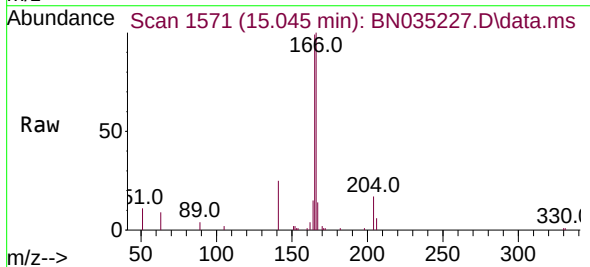
Tgt Ion:154 Resp: 483
Ion Ratio Lower Upper
154 100
153 115.4 91.6 137.4
152 59.0 45.8 68.6

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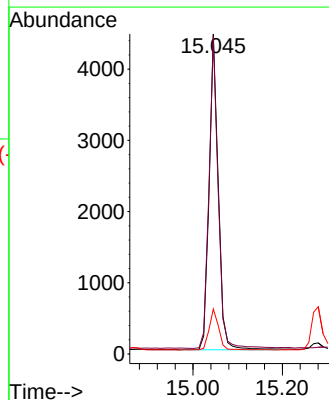
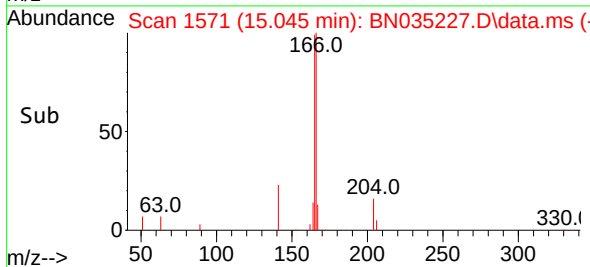
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

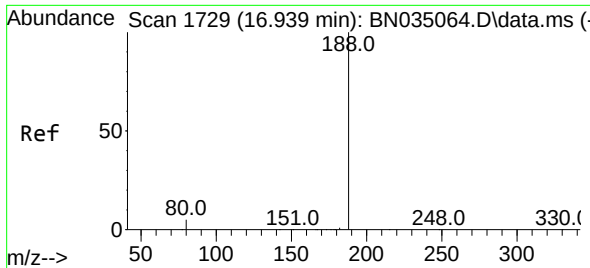


#18
Fluorene
Concen: 0.378 ng
RT: 15.045 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12



Tgt Ion:166 Resp: 6268
Ion Ratio Lower Upper
166 100
165 99.1 79.1 118.7
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.746 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

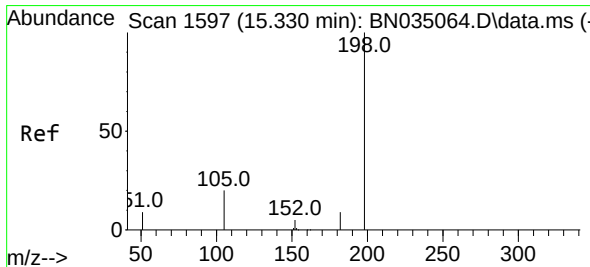
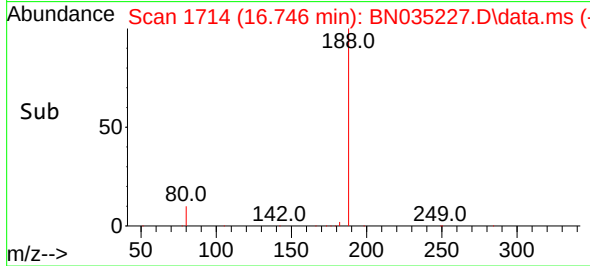
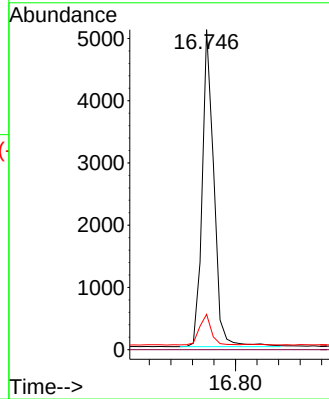
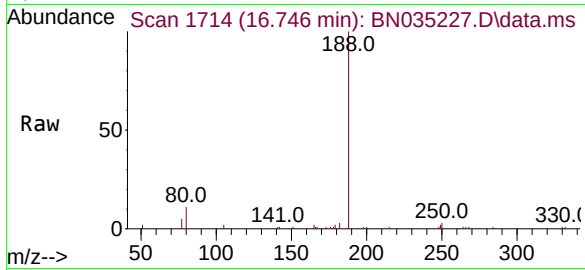
Instrument :

BNA_N

ClientSampleId :

PB165012BSD

Tgt Ion:188	Resp:	7680
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	11.1	4.3

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Supervised By :mohammad ahmed 11/22/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.172 ng

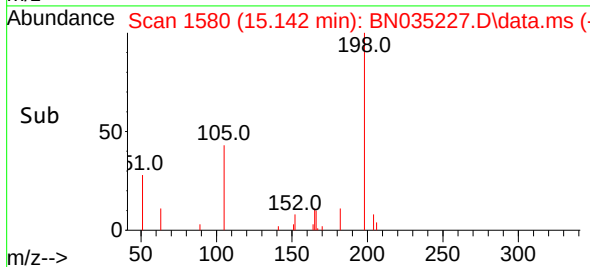
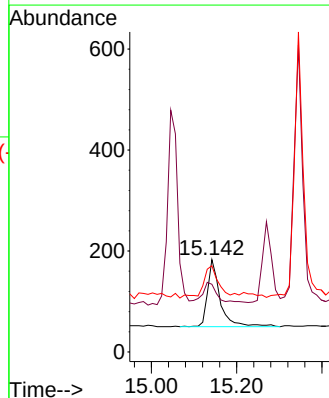
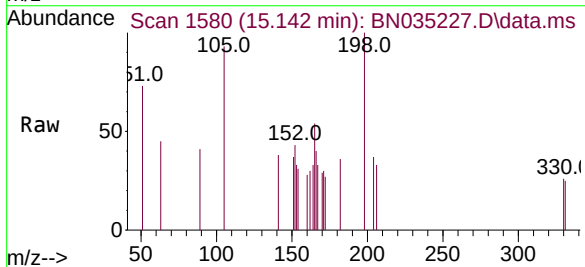
RT: 15.142 min Scan# 1580

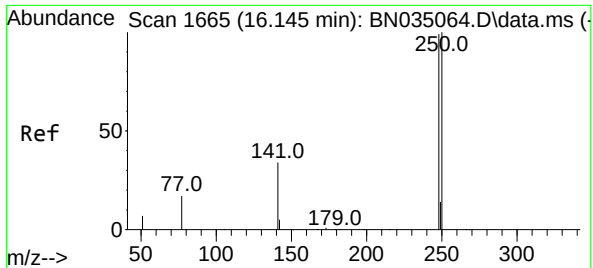
Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

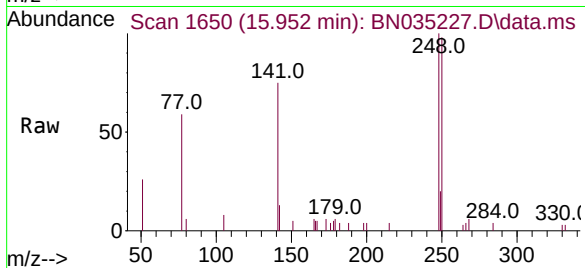
Tgt Ion:198	Resp:	275
Ion Ratio	Lower	Upper
198	100	
51	73.2	29.9
105	93.4	23.7





#21
4-Bromophenyl-phenylether
Concen: 0.417 ng
RT: 15.952 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

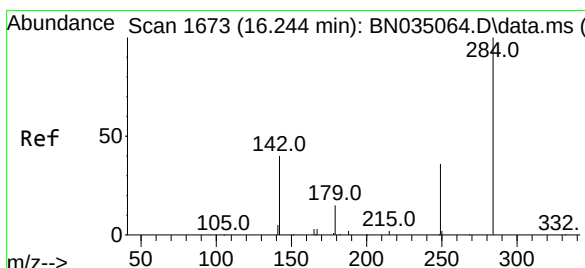
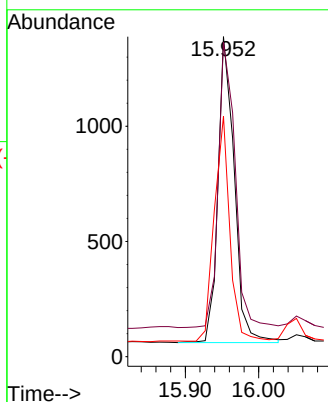
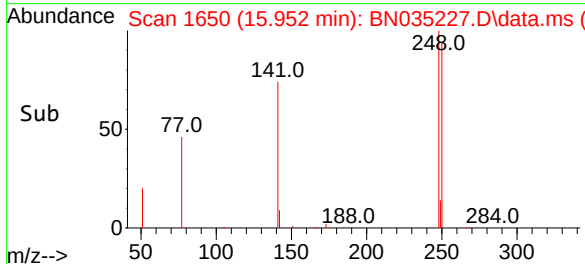
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



Tgt Ion:248 Resp: 2039
Ion Ratio Lower Upper
248 100
250 98.3 81.2 121.8
141 75.2 29.1 43.7

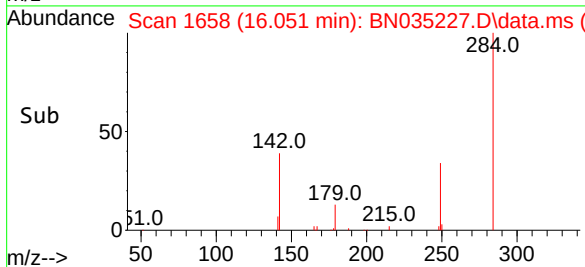
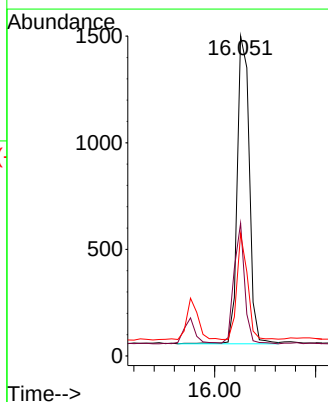
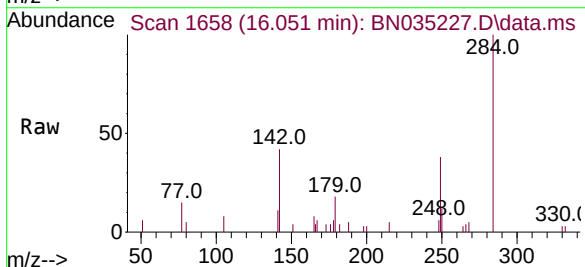
Manual Integrations
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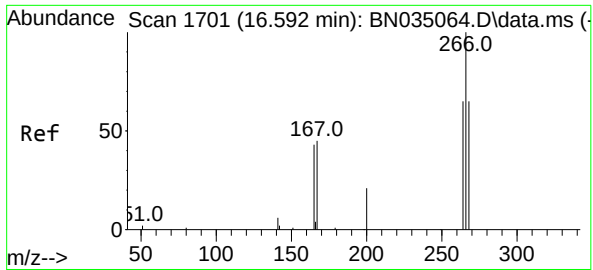
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#22
Hexachlorobenzene
Concen: 0.473 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.012 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:284 Resp: 2404
Ion Ratio Lower Upper
284 100
142 34.7 28.2 42.4
249 30.3 26.2 39.2





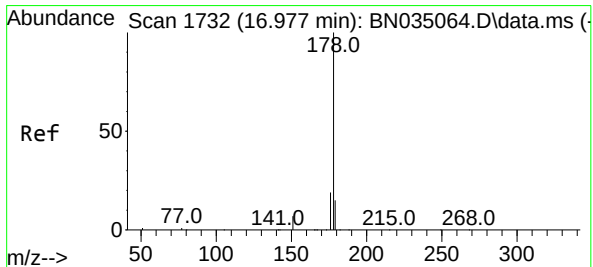
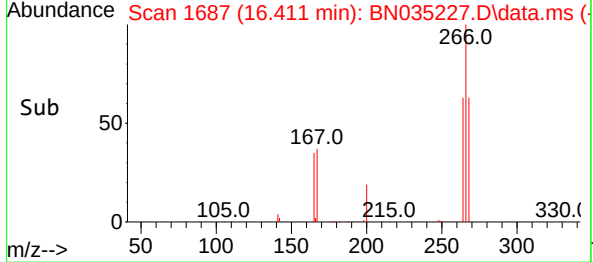
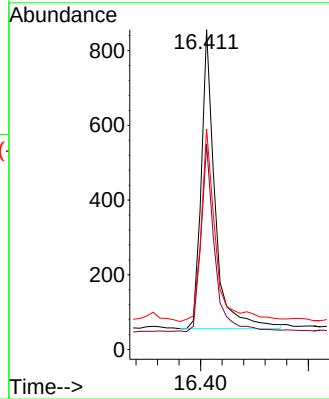
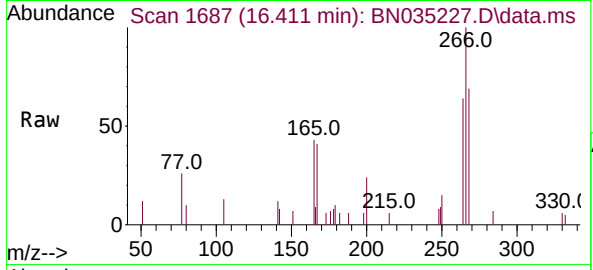
#24
Pentachlorophenol
Concen: 0.599 ng
RT: 16.411 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

Tgt Ion:266 Resp: 142
Ion Ratio Lower Upper
266 100
264 61.3 49.4 74.0
268 67.3 52.6 79.0

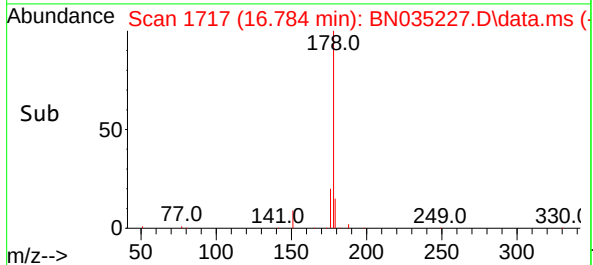
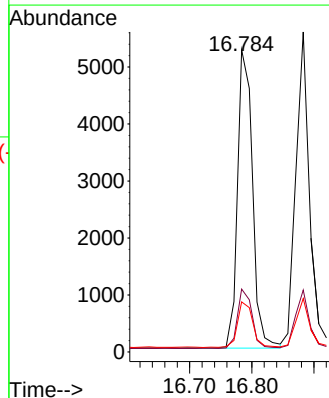
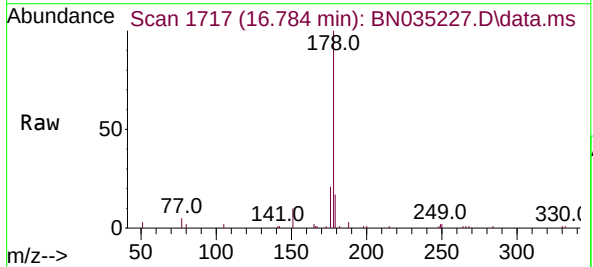
Manual Integrations
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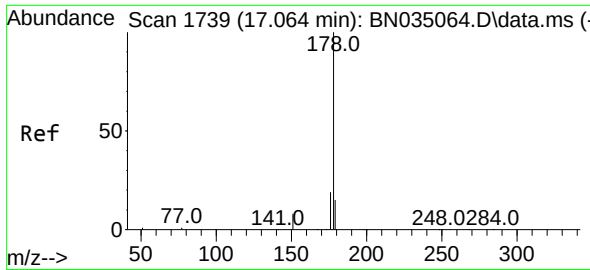
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#25
Phenanthrene
Concen: 0.435 ng
RT: 16.784 min Scan# 1717
Delta R.T. -0.012 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:178 Resp: 8786
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.6 12.6 18.8





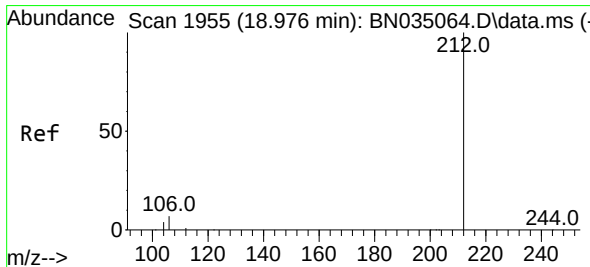
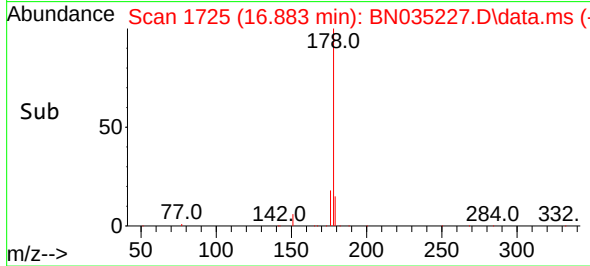
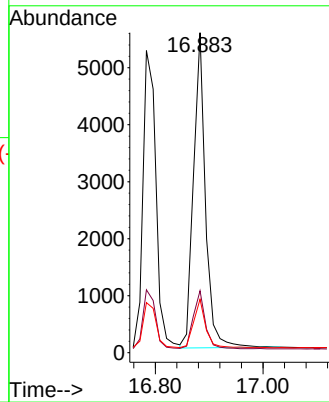
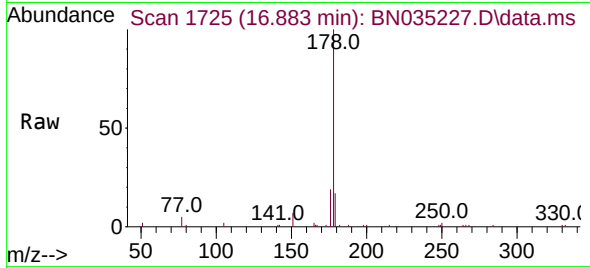
#26
Anthracene
Concen: 0.461 ng
RT: 16.883 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

Tgt Ion:178 Resp: 856
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.6 12.2 18.2

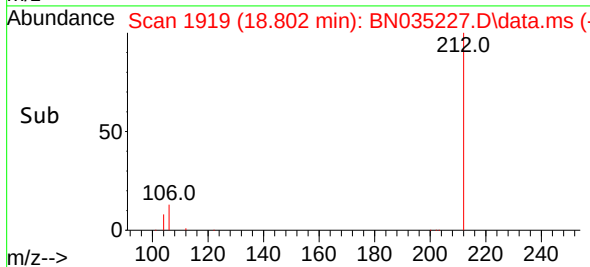
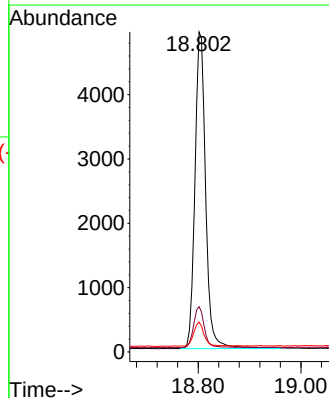
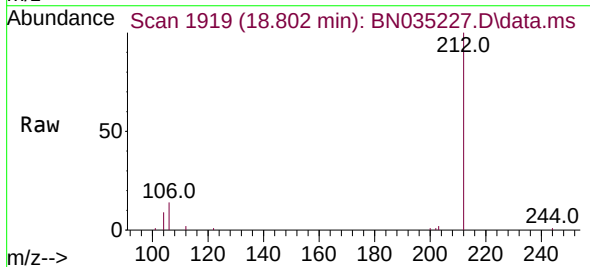
Manual Integrations
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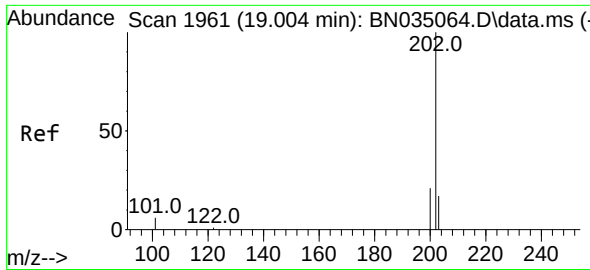
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#27
Fluoranthene-d10
Concen: 0.304 ng
RT: 18.802 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:212 Resp: 7158
Ion Ratio Lower Upper
212 100
106 12.5 6.0 9.0#
104 7.2 3.5 5.3#





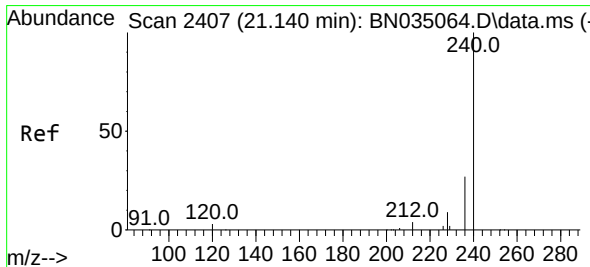
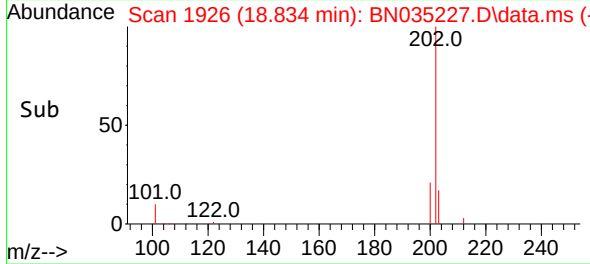
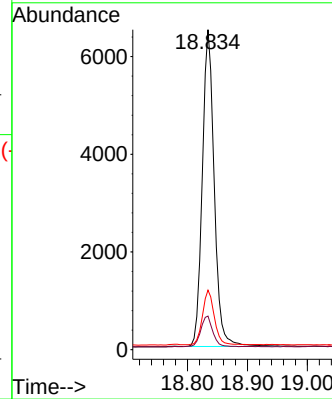
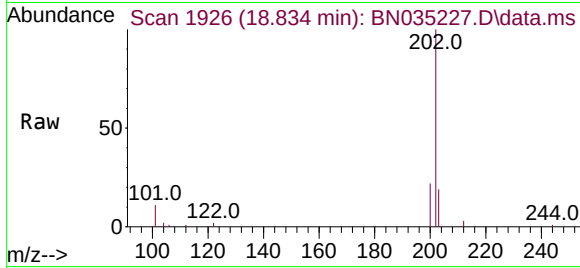
#28
Fluoranthene
Concen: 0.323 ng
RT: 18.834 min Scan# 1961
Delta R.T. -0.005 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

Tgt Ion:202 Resp: 8980
Ion Ratio Lower Upper
202 100
101 9.6 5.2 7.8#
203 16.9 13.8 20.8#

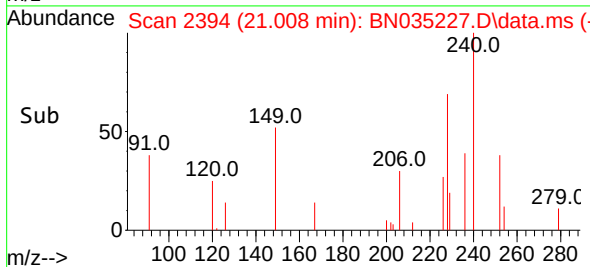
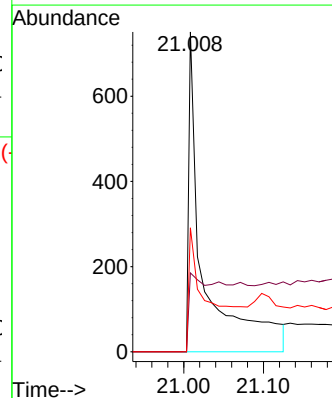
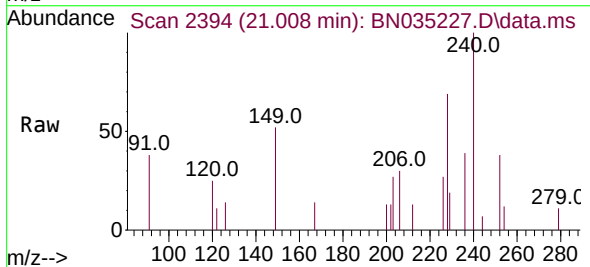
Manual Integrations
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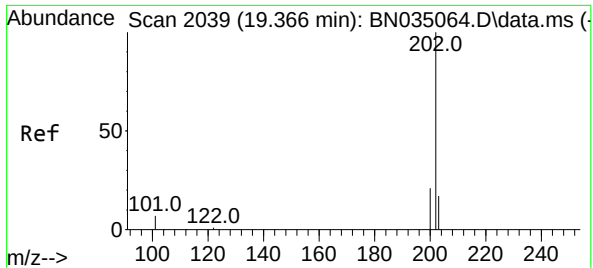
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:240 Resp: 1000
Ion Ratio Lower Upper
240 100
120 24.6 3.8 5.6#
236 38.7 22.2 33.2#





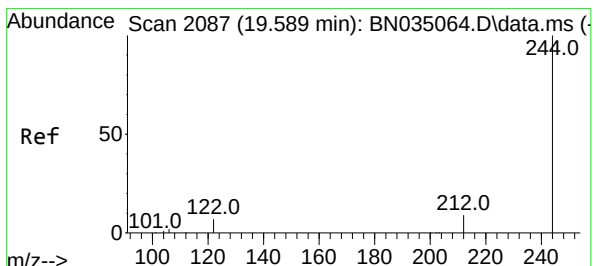
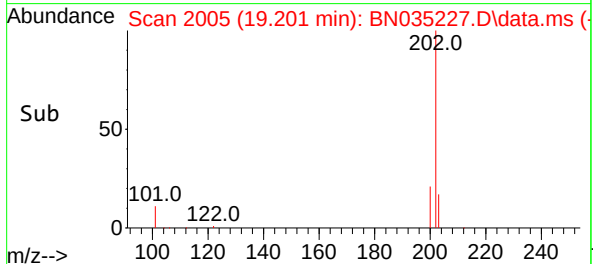
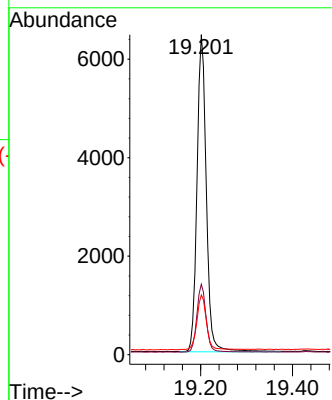
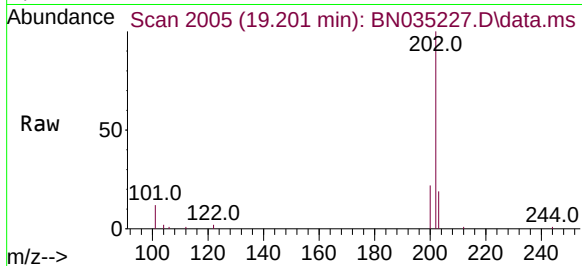
#30
Pyrene
Concen: 2.721 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

Tgt Ion:202 Resp: 906
Ion Ratio Lower Upper
202 100
200 21.3 16.7 25.1
203 17.5 14.2 21.4

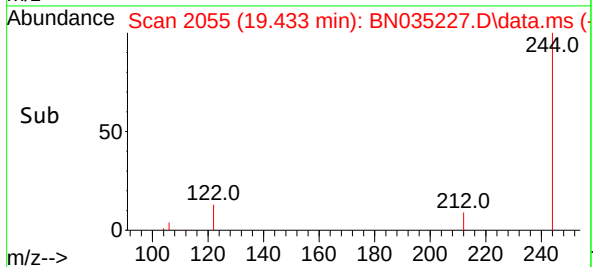
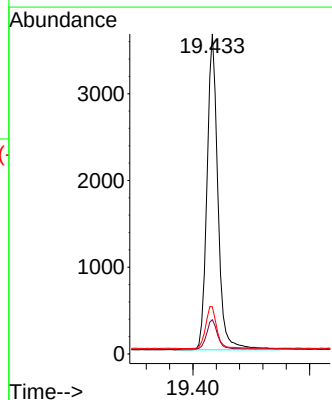
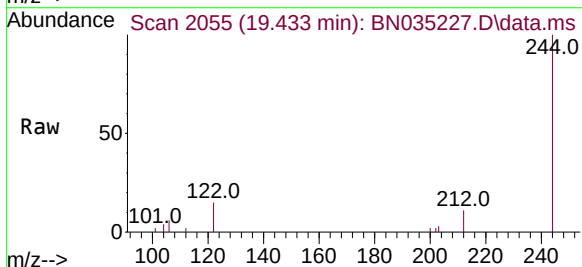
Manual Integrations
APPROVED

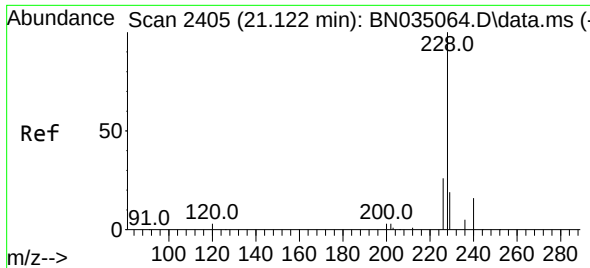
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#31
Terphenyl-d14
Concen: 2.267 ng
RT: 19.433 min Scan# 2055
Delta R.T. -0.005 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

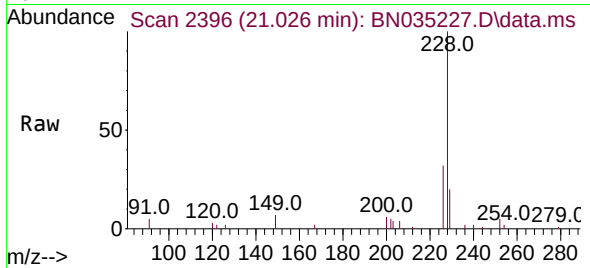
Tgt Ion:244 Resp: 4758
Ion Ratio Lower Upper
244 100
212 10.7 7.6 11.4
122 14.7 6.1 9.1#





#32
Benzo(a)anthracene
Concen: 2.439 ng
RT: 21.026 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

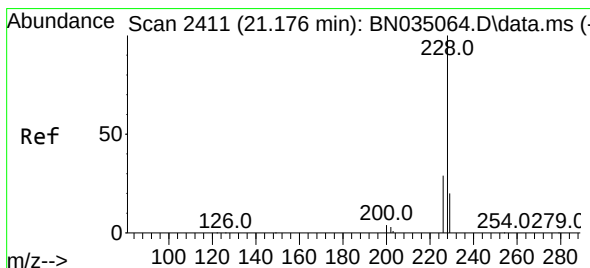
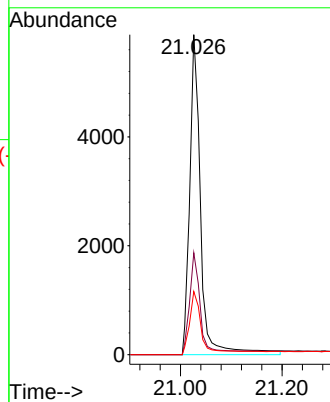
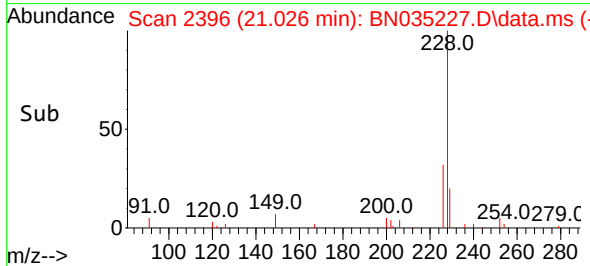
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



Tgt Ion:228 Resp: 8491
Ion Ratio Lower Upper
228 100
226 31.9 21.4 32.0
229 19.8 15.7 23.5

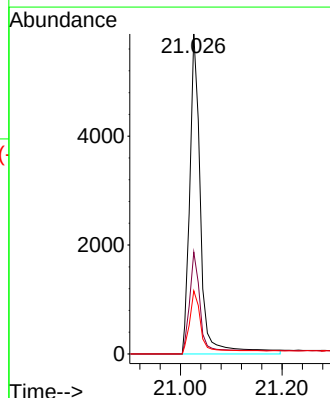
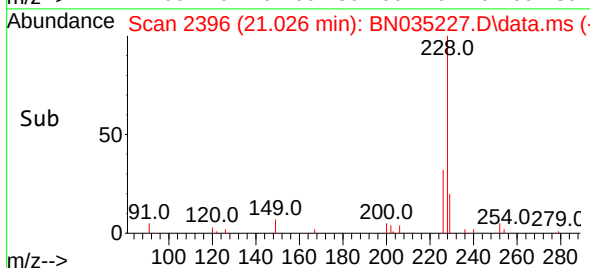
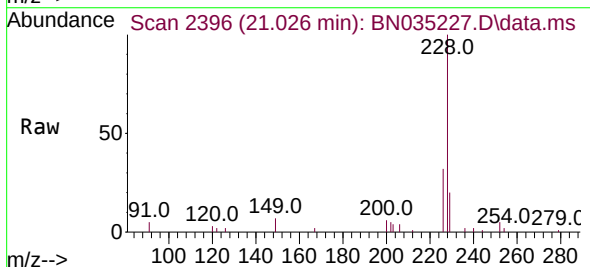
Manual Integrations
APPROVED

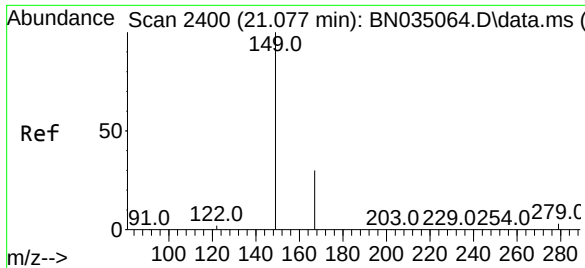
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#33
Chrysene
Concen: 2.462 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.009 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

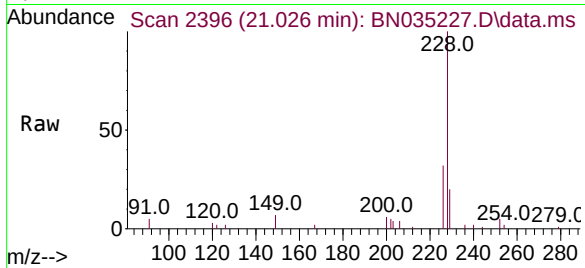
Tgt Ion:228 Resp: 8491
Ion Ratio Lower Upper
228 100
226 31.9 23.7 35.5
229 19.8 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.596 ng
RT: 21.026 min Scan# 2108
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

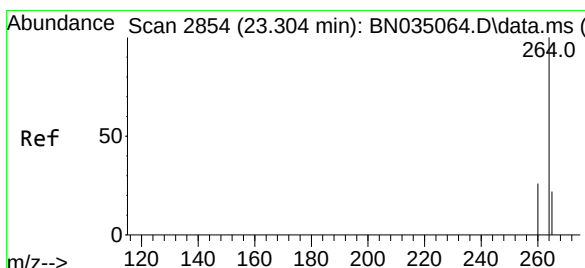
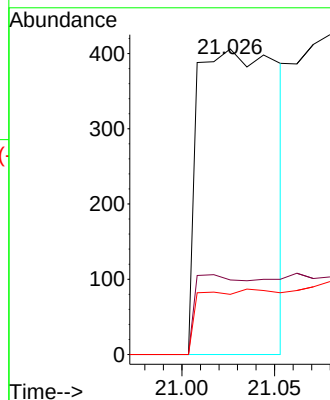
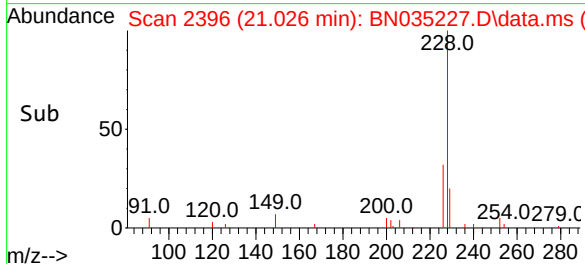
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



Tgt Ion:149 Resp: 1089
Ion Ratio Lower Upper
149 100
167 16.3 23.2 34.8#
279 21.2 3.2 4.8#

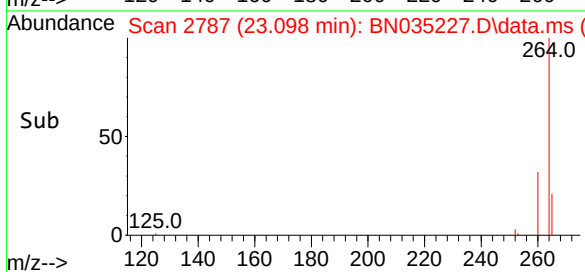
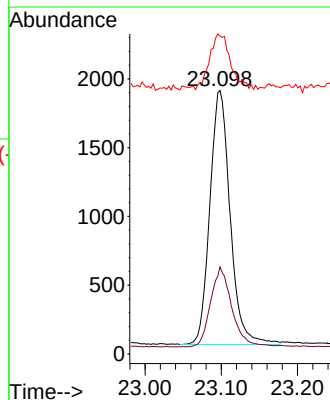
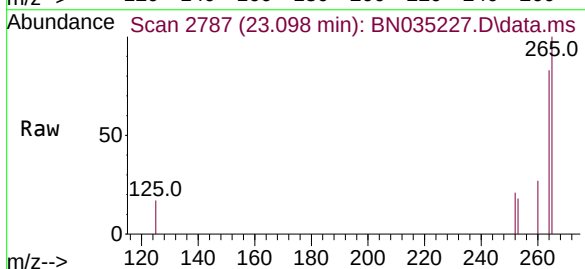
Manual Integrations
APPROVED

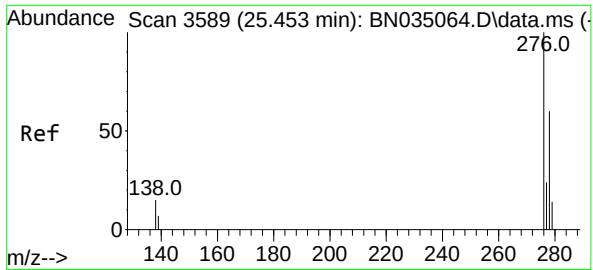
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.098 min Scan# 2787
Delta R.T. -0.006 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:264 Resp: 3421
Ion Ratio Lower Upper
264 100
260 33.0 20.9 31.3#
265 120.7 35.4 53.2#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.625 ng

RT: 25.151 min Scan# 34

Delta R.T. -0.006 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

Instrument :

BNA_N

ClientSampleId :

PB165012BSD

Tgt Ion:276 Resp: 853

Ion Ratio Lower Upper

276 100

138 24.5 13.0 19.4

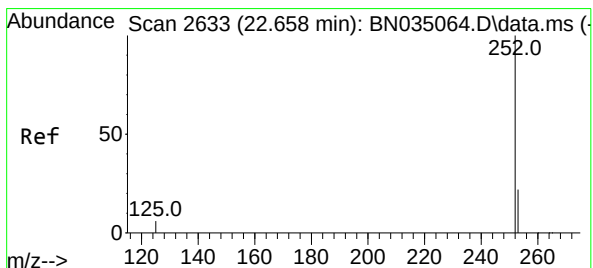
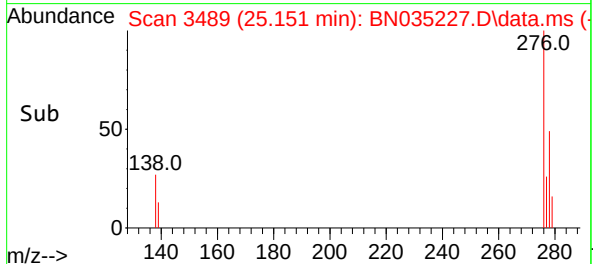
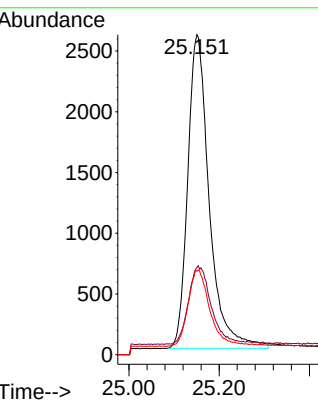
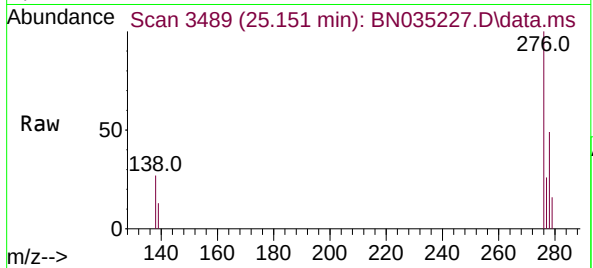
277 22.9 19.8 29.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#37

Benzo(b)fluoranthene

Concen: 0.698 ng

RT: 22.481 min Scan# 2576

Delta R.T. -0.006 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

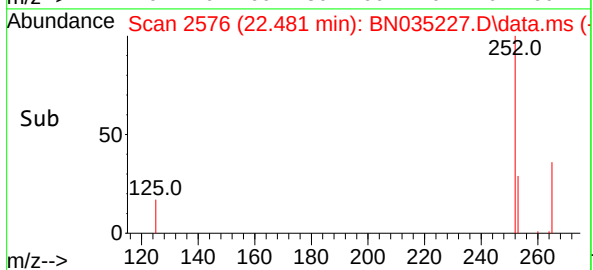
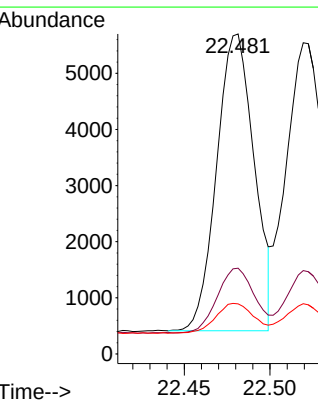
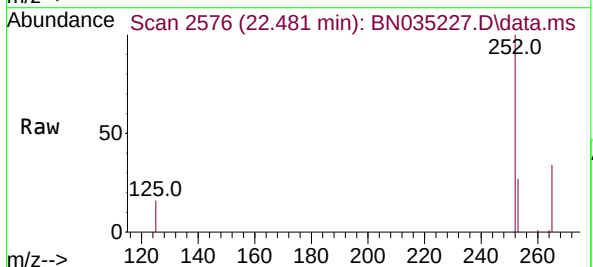
Tgt Ion:252 Resp: 8039

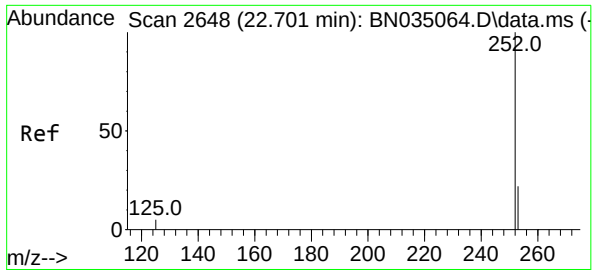
Ion Ratio Lower Upper

252 100

253 26.8 19.3 28.9

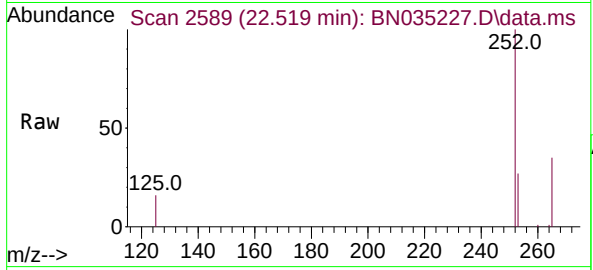
125 15.6 6.2 9.2





#38
Benzo(k)fluoranthene
Concen: 0.703 ng
RT: 22.519 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

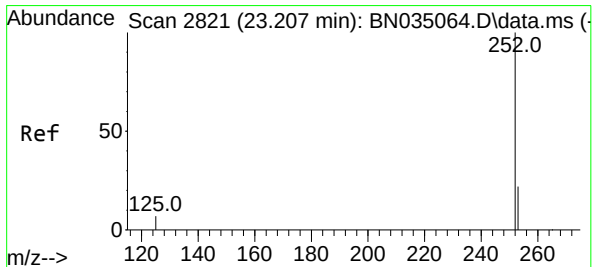
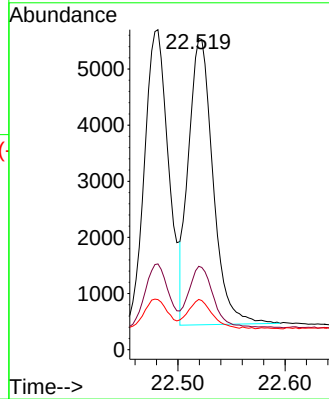
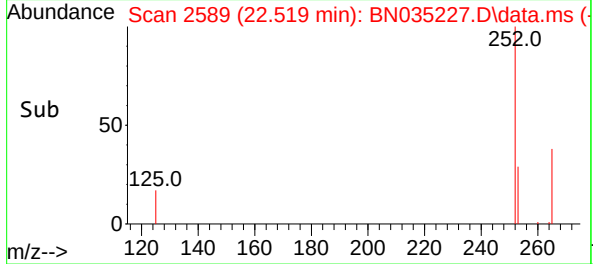
Instrument :
BNA_N
ClientSampleId :
PB165012BSD



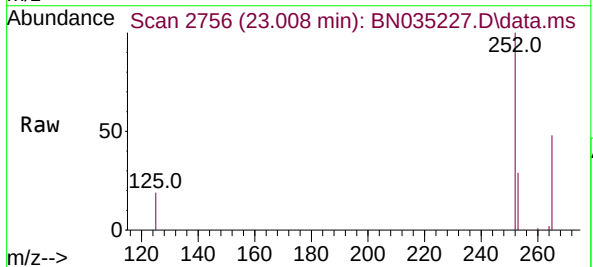
Tgt Ion:252 Resp: 809
Ion Ratio Lower Upper
252 100
253 26.8 19.5 29.3
125 16.1 6.5 9.7

Manual Integrations
APPROVED

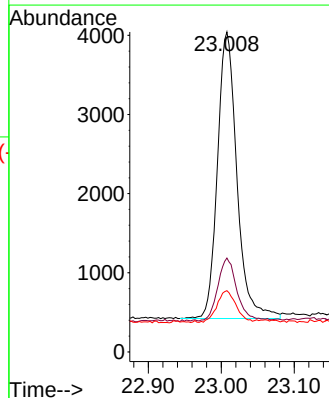
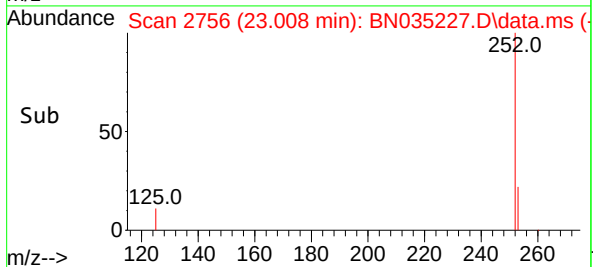
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

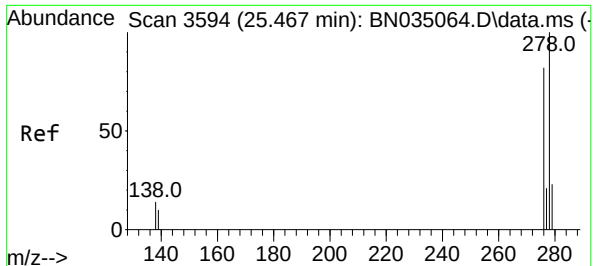


#39
Benzo(a)pyrene
Concen: 0.663 ng
RT: 23.008 min Scan# 2756
Delta R.T. -0.006 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12



Tgt Ion:252 Resp: 6718
Ion Ratio Lower Upper
252 100
253 29.3 20.1 30.1
125 19.2 7.5 11.3





#40

Dibenzo(a,h)anthracene

Concen: 0.659 ng

RT: 25.171 min Scan# 34

Delta R.T. -0.006 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

Instrument :

BNA_N

ClientSampleId :

PB165012BSD

Tgt Ion:278 Resp: 712

Ion Ratio Lower Upper

278 100

139 19.8 9.3 13.9

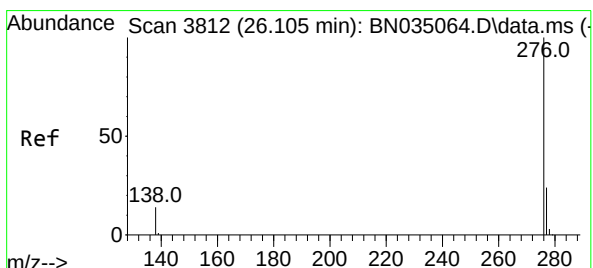
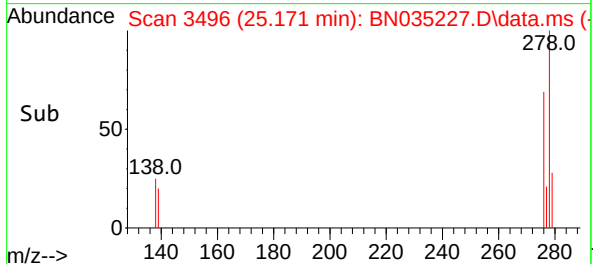
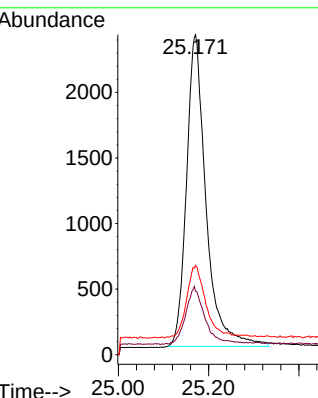
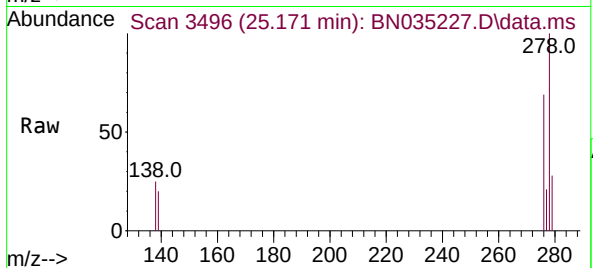
279 27.9 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/22/2024



#41

Benzo(g,h,i)perylene

Concen: 0.571 ng

RT: 25.768 min Scan# 3700

Delta R.T. -0.009 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

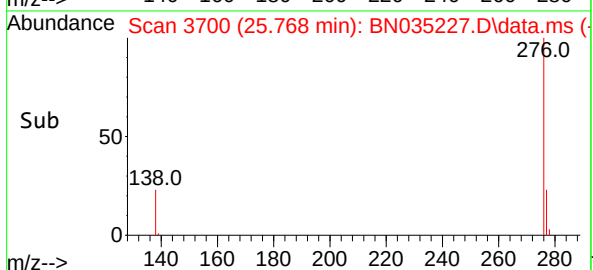
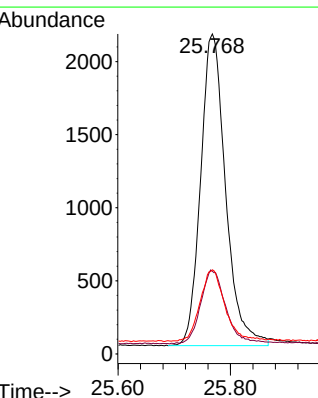
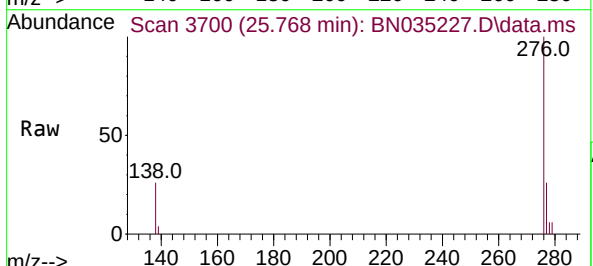
Tgt Ion:276 Resp: 6570

Ion Ratio Lower Upper

276 100

277 25.9 19.9 29.9

138 26.3 11.6 17.4



Manual Integration Report

Sequence:

BN111324

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC1.6	BN035066.D	Benzo(b)fluoranthene	yogesh	11/14/2024 3:07:07 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software
SSTDICC3.2	BN035067.D	Benzo(b)fluoranthene	yogesh	11/14/2024 3:07:16 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software
SSTDICV0.4	BN035069.D	4,6-Dinitro-2-methylphenol	yogesh	11/14/2024 3:07:24 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN112124	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035219.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:28 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
PB165012BL	BN035220.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:29 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
P4866-01	BN035223.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:34 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
P4866-02	BN035225.D	Anthracene	yogesh	11/22/2024 3:54:37 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
P4866-02	BN035225.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:37 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
PB165012BS	BN035226.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:38 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
PB165012BSD	BN035227.D	Nitrobenzene-d5	yogesh	11/22/2024 3:54:40 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software
SSTDCCC0.4	BN035235.D	Nitrobenzene-d5	yogesh	11/22/2024 3:55:00 AM	mohammad	11/22/2024 4:01:18 AM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035061.D	13 Nov 2024 12:01	RC/JU	Ok
2	SSTDIC0.1	BN035062.D	13 Nov 2024 12:40	RC/JU	Ok
3	SSTDIC0.2	BN035063.D	13 Nov 2024 13:16	RC/JU	Ok
4	SSTDIC0.4	BN035064.D	13 Nov 2024 13:52	RC/JU	Ok
5	SSTDIC0.8	BN035065.D	13 Nov 2024 14:28	RC/JU	Ok
6	SSTDIC1.6	BN035066.D	13 Nov 2024 15:04	RC/JU	Ok,M
7	SSTDIC3.2	BN035067.D	13 Nov 2024 15:39	RC/JU	Ok,M
8	SSTDIC5.0	BN035068.D	13 Nov 2024 16:15	RC/JU	Ok
9	SSTDICV0.4	BN035069.D	13 Nov 2024 16:51	RC/JU	Ok,M
10	PB164785BL	BN035070.D	13 Nov 2024 17:27	RC/JU	Ok
11	PB164785BS	BN035071.D	13 Nov 2024 18:03	RC/JU	Ok
12	PB164785BSD	BN035072.D	13 Nov 2024 18:38	RC/JU	Ok
13	P4765-02	BN035073.D	13 Nov 2024 19:14	RC/JU	Ok
14	P4765-06	BN035074.D	13 Nov 2024 19:50	RC/JU	Ok
15	P4767-02	BN035075.D	13 Nov 2024 20:26	RC/JU	Ok,M
16	P4773-01	BN035076.D	13 Nov 2024 21:01	RC/JU	Dilution
17	P4773-02	BN035077.D	13 Nov 2024 21:37	RC/JU	Ok
18	P4774-06	BN035078.D	13 Nov 2024 22:13	RC/JU	Ok
19	P4774-02	BN035079.D	13 Nov 2024 22:49	RC/JU	ReRun
20	SSTDIC0.4	BN035080.D	13 Nov 2024 23:24	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112124

Review By	yogesh	Review On	11/22/2024 3:55:12 AM
Supervise By	mohammad	Supervise On	11/22/2024 4:01:18 AM
SubDirectory	BN112124	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035218.D	21 Nov 2024 12:43	RC/JU	Ok
2	SSTDCCC0.4	BN035219.D	21 Nov 2024 13:22	RC/JU	Ok,M
3	PB165012BL	BN035220.D	21 Nov 2024 13:58	RC/JU	Ok,M
4	P4868-02	BN035221.D	21 Nov 2024 14:35	RC/JU	Ok,M
5	P4868-01	BN035222.D	21 Nov 2024 15:12	RC/JU	Ok
6	P4866-01	BN035223.D	21 Nov 2024 15:48	RC/JU	Ok,M
7	P4868-03	BN035224.D	21 Nov 2024 16:24	RC/JU	Ok,M
8	P4866-02	BN035225.D	21 Nov 2024 17:00	RC/JU	Ok,M
9	PB165012BS	BN035226.D	21 Nov 2024 17:36	RC/JU	Ok,M
10	PB165012BSD	BN035227.D	21 Nov 2024 18:12	RC/JU	Ok,M
11	P4934-03	BN035228.D	21 Nov 2024 18:48	RC/JU	Ok,M
12	P4934-04	BN035229.D	21 Nov 2024 19:24	RC/JU	Ok,M
13	P4934-08	BN035230.D	21 Nov 2024 20:00	RC/JU	Ok
14	P4934-09	BN035231.D	21 Nov 2024 20:36	RC/JU	Ok
15	P4934-11	BN035232.D	21 Nov 2024 21:12	RC/JU	Ok,M
16	P4934-10	BN035233.D	21 Nov 2024 21:49	RC/JU	Ok,M
17	P4934-12	BN035234.D	21 Nov 2024 22:25	RC/JU	Ok,M
18	SSTDCCC0.4	BN035235.D	21 Nov 2024 23:01	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035061.D	13 Nov 2024 12:01		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035062.D	13 Nov 2024 12:40		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN035063.D	13 Nov 2024 13:16		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN035064.D	13 Nov 2024 13:52		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN035065.D	13 Nov 2024 14:28		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035066.D	13 Nov 2024 15:04		RC/JU	Ok,M
7	SSTDICC3.2	SSTDICC3.2	BN035067.D	13 Nov 2024 15:39		RC/JU	Ok,M
8	SSTDICC5.0	SSTDICC5.0	BN035068.D	13 Nov 2024 16:15		RC/JU	Ok
9	SSTDICV0.4	ICVBN111324	BN035069.D	13 Nov 2024 16:51		RC/JU	Ok,M
10	PB164785BL	PB164785BL	BN035070.D	13 Nov 2024 17:27		RC/JU	Ok
11	PB164785BS	PB164785BS	BN035071.D	13 Nov 2024 18:03		RC/JU	Ok
12	PB164785BSD	PB164785BSD	BN035072.D	13 Nov 2024 18:38		RC/JU	Ok
13	P4765-02	DSN002	BN035073.D	13 Nov 2024 19:14		RC/JU	Ok
14	P4765-06	DSN003	BN035074.D	13 Nov 2024 19:50		RC/JU	Ok
15	P4767-02	TOWER-2	BN035075.D	13 Nov 2024 20:26		RC/JU	Ok,M
16	P4773-01	RW7-SP100-20241107	BN035076.D	13 Nov 2024 21:01	Need 2X Dilution	RC/JU	Dilution
17	P4773-02	RW7-SP201-20241107	BN035077.D	13 Nov 2024 21:37		RC/JU	Ok
18	P4774-06	BP-VPB-190-GW-638-6	BN035078.D	13 Nov 2024 22:13		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4774-02	VPB190-HYD-2024110	BN035079.D	13 Nov 2024 22:49	Surrogate Fail	RC/JU	ReRun
20	SSTDCCC0.4	SSTDCCC0.4EC	BN035080.D	13 Nov 2024 23:24		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112124

Review By	yogesh	Review On	11/22/2024 3:55:12 AM
Supervise By	mohammad	Supervise On	11/22/2024 4:01:18 AM
SubDirectory	BN112124	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035218.D	21 Nov 2024 12:43		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035219.D	21 Nov 2024 13:22		RC/JU	Ok,M
3	PB165012BL	PB165012BL	BN035220.D	21 Nov 2024 13:58		RC/JU	Ok,M
4	P4868-02	RW5-SP201-20241114	BN035221.D	21 Nov 2024 14:35		RC/JU	Ok,M
5	P4868-01	RW5-SP100-20241114	BN035222.D	21 Nov 2024 15:12		RC/JU	Ok
6	P4866-01	RW7-SP200-20241114	BN035223.D	21 Nov 2024 15:48		RC/JU	Ok,M
7	P4868-03	RW5-SP303-20241114	BN035224.D	21 Nov 2024 16:24		RC/JU	Ok,M
8	P4866-02	RW7-SP201-20241114	BN035225.D	21 Nov 2024 17:00		RC/JU	Ok,M
9	PB165012BS	PB165012BS	BN035226.D	21 Nov 2024 17:36		RC/JU	Ok,M
10	PB165012BSD	PB165012BSD	BN035227.D	21 Nov 2024 18:12		RC/JU	Ok,M
11	P4934-03	BPOW6-7-20241118	BN035228.D	21 Nov 2024 18:48		RC/JU	Ok,M
12	P4934-04	DUP-01-20241118	BN035229.D	21 Nov 2024 19:24		RC/JU	Ok,M
13	P4934-08	BPOW6-9-20241118	BN035230.D	21 Nov 2024 20:00		RC/JU	Ok
14	P4934-09	FB-01-20241119	BN035231.D	21 Nov 2024 20:36		RC/JU	Ok
15	P4934-11	RB-01-20241119	BN035232.D	21 Nov 2024 21:12		RC/JU	Ok,M
16	P4934-10	BPOW6-8-20241118	BN035233.D	21 Nov 2024 21:49		RC/JU	Ok,M
17	P4934-12	DUP-02-20241119	BN035234.D	21 Nov 2024 22:25		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN035235.D	21 Nov 2024 23:01		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112124

Review By	yogesh	Review On	11/22/2024 3:55:12 AM
Supervise By	mohammad	Supervise On	11/22/2024 4:01:18 AM
SubDirectory	BN112124	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527,1ul/100ul sample		
ICV/I.BLK	SP6548		
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

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 11/15/2024

Extraction Start Time : 12:05

Extraction End Date : 11/15/2024

Extraction End Time : 17:00

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
Surrogate	1.0ML	0.4 PPM	SP6636
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	E3828
Baked Na2SO4	N/A	EP2562
10N NaOH	N/A	EP2559
H2SO4 1:1	N/A	EP2548
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

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/15/24	RP (Ext 206)	Rc/gvpc
17:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 11/15/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165012BL	SBLK012	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB165012BS	SLCS012	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB165012BS D	SLCSD012	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
P4866-01	RW7-SP200-20241114	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			4
P4866-02	RW7-SP201-20241114	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			5
P4868-01	RW5-SP100-20241114	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	c		6
P4868-02	RW5-SP201-20241114	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1			7
P4868-03	RW5-SP303-20241114	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	c		8

* Extracts relinquished on the same date as received.

P4866-SVOC-SIMGroup1



367 of 646

11/15/24 12:03 PM

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4866 WorkList ID : 185484 Department : Extraction Date : 11-15-2024 12:00:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4866-01	RW7-SP200-20241114	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	11/14/2024	8270-Modified
P4866-02	RW7-SP201-20241114	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	11/14/2024	8270-Modified
P4868-01	RW5-SP100-20241114	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	11/14/2024	8270-Modified
P4868-02	RW5-SP201-20241114	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	11/14/2024	8270-Modified
P4868-03	RW5-SP303-20241114	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	11/14/2024	8270-Modified

Date/Time 11/15/24 12:03
Raw Sample Received by: RS (Ext 14)
Raw Sample Relinquished by: CP

Date/Time 11/15/24 12:30
Raw Sample Received by: CP
Raw Sample Relinquished by: RS (Ext 14)

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Prep Standard - Chemical Standard Summary

Order ID : P4866
Test : SVOC-SIMGroup1
Prepbatch ID : PB165012,
Sequence ID/Qc Batch ID: BN112124,

Standard ID :
EP2548,EP2559,EP2562,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6636,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3746,E3759,E3768,E3786,E3788,E3828,M5178,S10103,S10247,S10782,S10977,S 11003,S11011,S11097,S11494,S11566,S11766,S11771,S12029,S12077,S12096,S12105,S12112,S12113,S12117,S12126,S12453,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>
314	1.1 H2SO4 SOLN	EP2548	10/16/2024	04/16/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 10/16/2024

FROM 1000.00000ml of W3112 + 4000.00000ml of M5178 = Final Quantity: 2000.000 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>
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

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	EP2562	11/14/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
SOURCE FROM 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
SOURCE FROM 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = 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>
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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 + 0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = 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	SP6597	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6596 = 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	SP6598	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.68000ml of E3786 + 0.01000ml of SP6527 + 0.32000ml of SP6596 = 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	SP6599	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.84000ml of E3786 + 0.01000ml of SP6527 + 0.16000ml of SP6596 = 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	SP6600	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.92000ml of E3786 + 0.01000ml of SP6527 + 0.08000ml of SP6596 = 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	SP6601	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.96000ml of E3786 + 0.01000ml of SP6527 + 0.04000ml of SP6596 = 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	SP6602	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6601 = 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	SP6603	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.75000ml of E3786 + 0.01000ml of SP6527 + 0.25000ml of SP6601 = 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>
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed
								08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6636	10/04/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024
FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3788 = Final Quantity: 100.000 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	01/03/2025	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)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	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)	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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	03/29/2026	05/25/2022 / william	04/05/2022 / william	M5178

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

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	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

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	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

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 #
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	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

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	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

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 #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[CS 4978-2]

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]

CHEMICAL RECEIPT LOG BOOK

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	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

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	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 #
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	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: Erica Castiglione
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

Sheet 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

Brianna Smith

Certified By: _____

Brianna Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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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)

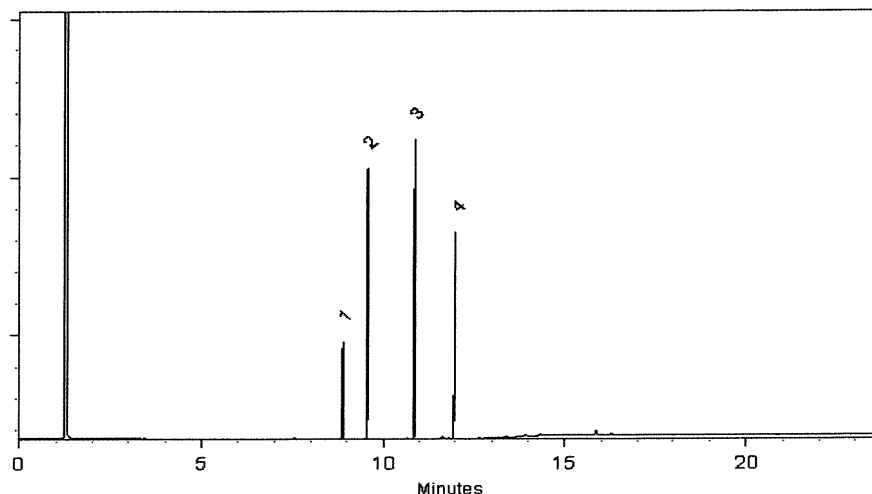
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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Received on
09/07/22
by
CG
S10778
to
S10782

Catalog No. : 33913 **Lot No.:** A0186160

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 : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylnaphthalene-d10 CAS # 7297-45-2 (Lot EF-135) Purity 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL Gravimetric +/- 90.7728 µg/mL Unstressed +/- 100.7207 µg/mL Stressed
2	Fluoranthene-d10 CAS # 93951-69-0 (Lot PR-20668) Purity 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL Gravimetric +/- 90.4107 µg/mL Unstressed +/- 100.3188 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:

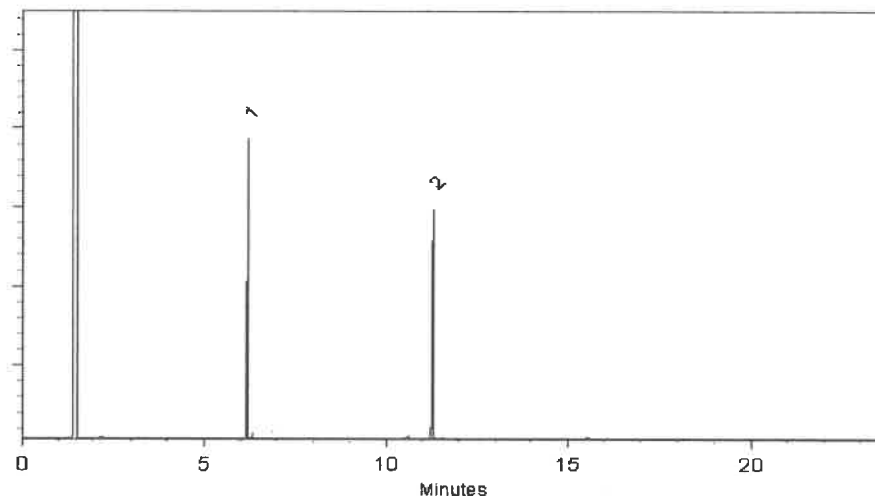
250°C

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.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

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Received by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

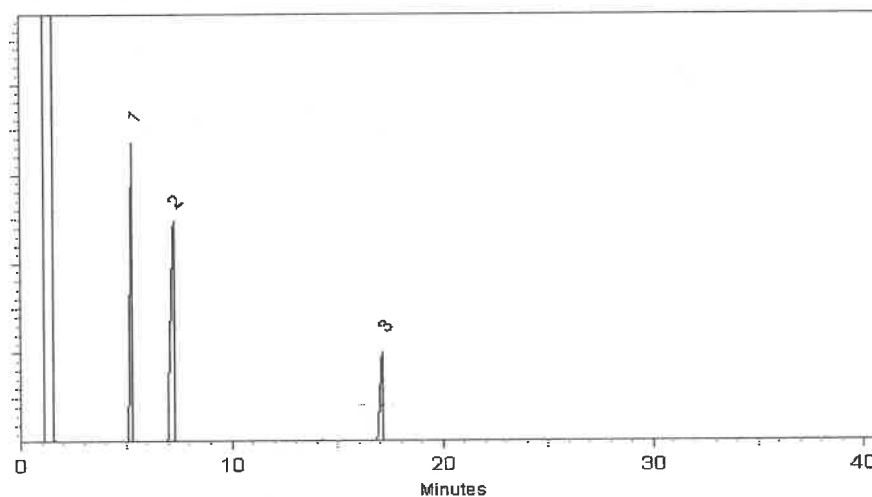
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015
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Received by
CG on
12/28/22
\$10981
to
\$11010

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

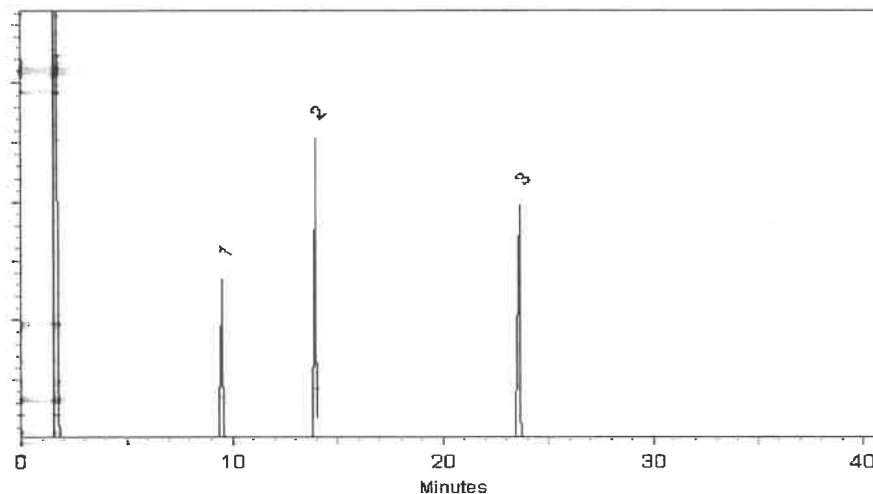
250°C

Det. Temp:

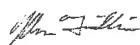
330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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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. : 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.

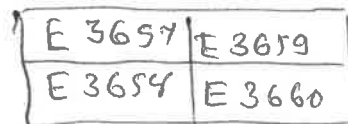
This document has been electronically produced and is valid without a signature.

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.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
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	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 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: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
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	7
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	0.1 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

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.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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



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

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.: A0201940

Description:

Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size:

2 mL

Expiration Date:

September 30, 2025

Handling:

This product is photosensitive.

Pkg Amt: > 1 mL

Storage: 10°C or colder

Ship: Ambient

511539
↓
51568

7.6
0911

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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent:

Methylene chloride

CAS # 75-09-2

Purity 99%

REVIEWED

By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023

Balance: B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

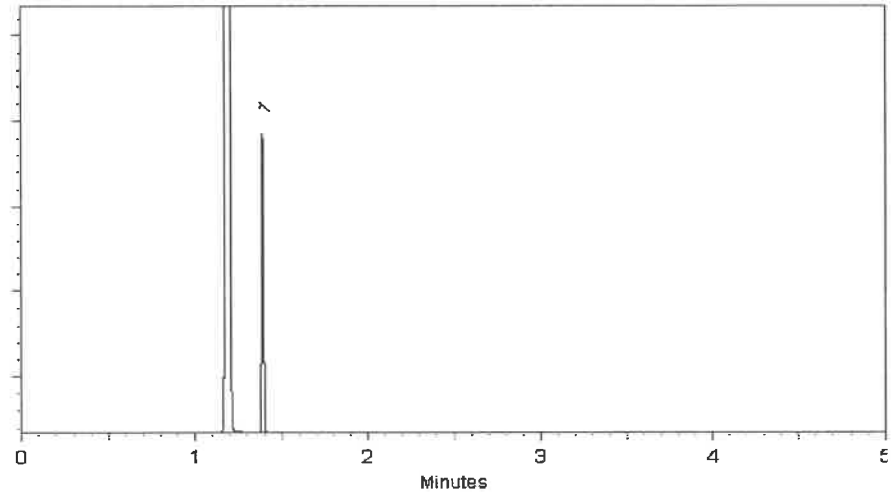
FID

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

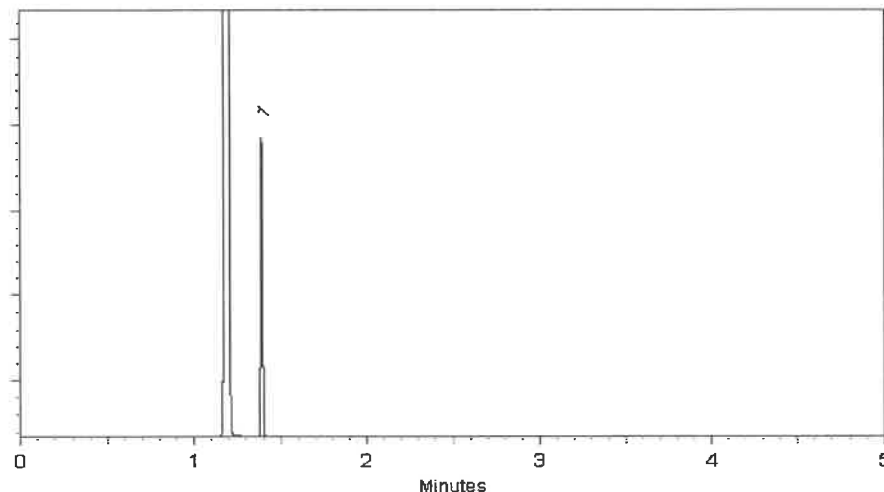
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

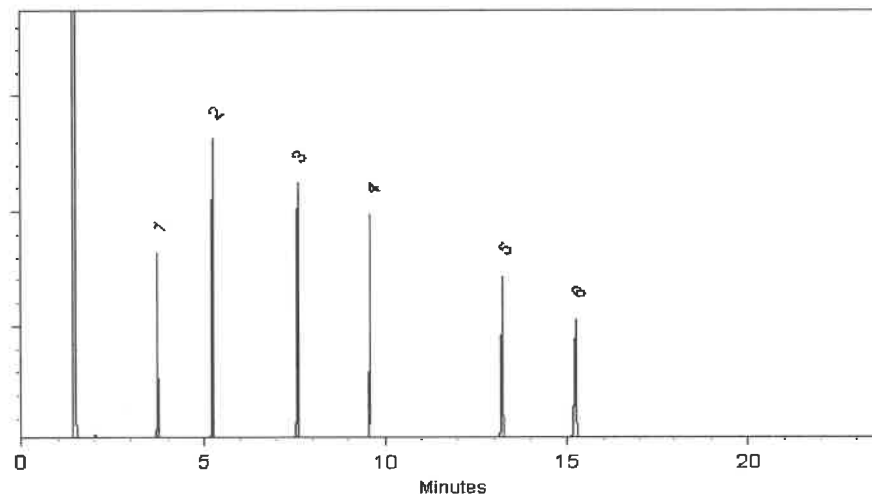
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
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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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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



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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. : 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



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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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

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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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. : 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	19
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	1
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	2
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	3
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	4
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	5
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	6
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	7
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	8
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	9
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	10
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	11
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	12
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	13
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	14
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	15
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	16
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	17
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	18
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	19
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112024\
Data File : BN035212.D
Acq On : 21 Nov 2024 00:49
Operator : RC/JU
Sample : P4866-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

Quant Time: Nov 21 01:27:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 20 23:40:20 2024
Response via : Initial Calibration

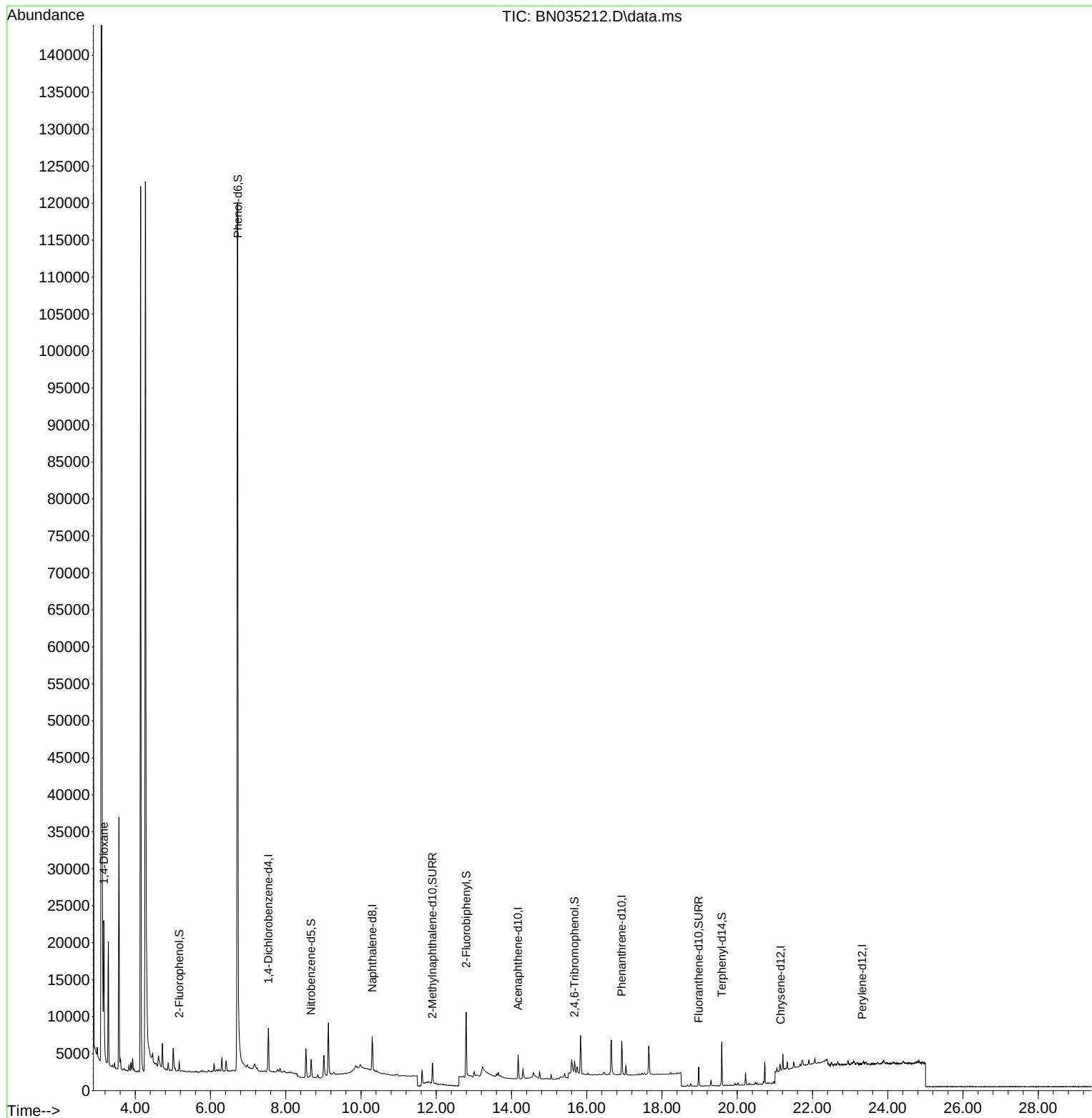
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.539	152	2761	0.400	ng	# 0.00
7) Naphthalene-d8	10.298	136	6281	0.400	ng	# 0.00
13) Acenaphthene-d10	14.176	164	1720	0.400	ng	0.00
19) Phenanthrene-d10	16.927	188	6689	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	149m	0.400	ng	0.00
35) Perylene-d12	23.318	264	86	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	992	0.142	ng	0.00
5) Phenol-d6	6.723	99	2150	0.245	ng	0.00
8) Nitrobenzene-d5	8.675	82	2111	0.386	ng	0.00
11) 2-Methylnaphthalene-d10	11.897	152	3673	0.328	ng	0.00
14) 2,4,6-Tribromophenol	15.673	330	926	0.746	ng	0.00
15) 2-Fluorobiphenyl	12.797	172	8128	1.164	ng	0.00
27) Fluoranthene-d10	18.976	212	2948	0.144	ng	0.00
31) Terphenyl-d14	19.589	244	5819	18.612	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.170	88	13220	5.271	ng	Qvalue 98

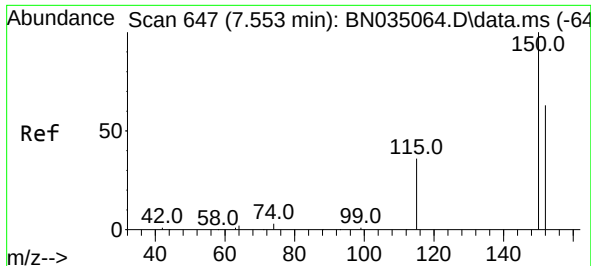
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112024\
Data File : BN035212.D
Acq On : 21 Nov 2024 00:49
Operator : RC/JU
Sample : P4866-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

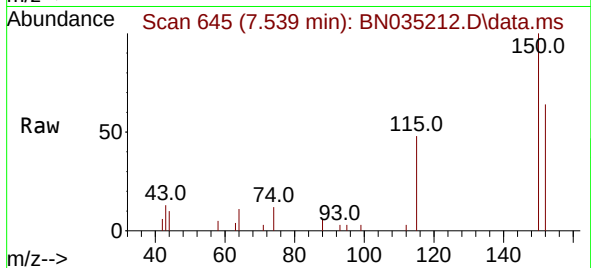
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 20 23:40:20 2024
Response via : Initial Calibration



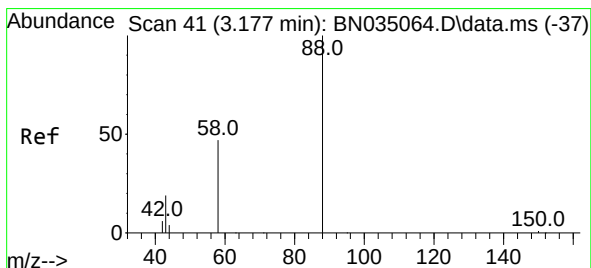
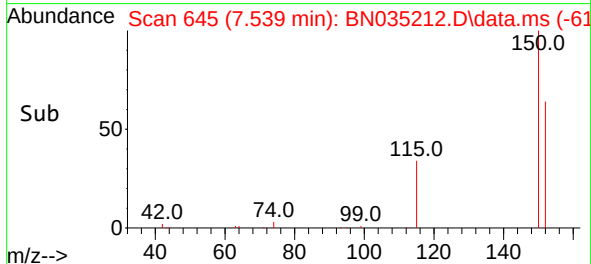
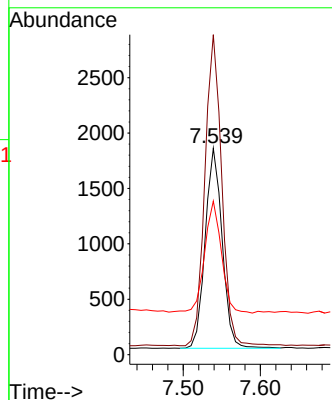


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.539 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN035212.D
 Acq: 21 Nov 2024 00:49

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP200-20241114

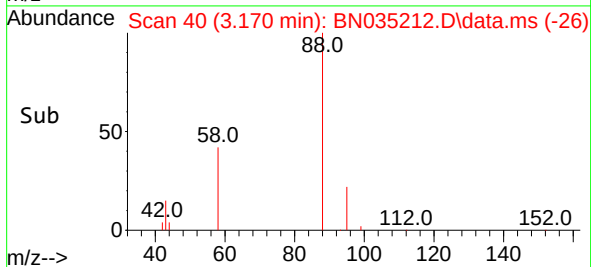
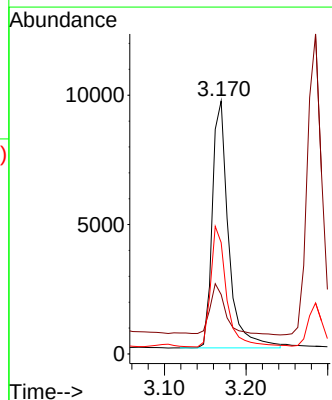
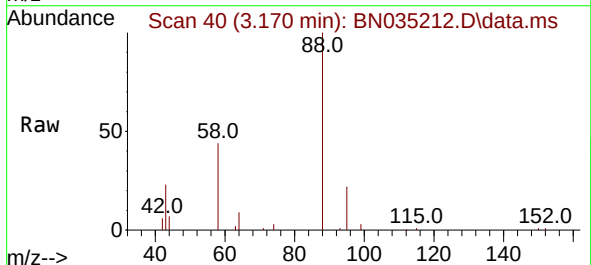


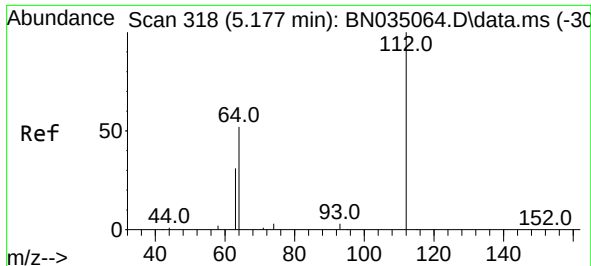
Tgt Ion:152 Resp: 2761
 Ion Ratio Lower Upper
 152 100
 150 155.1 124.5 186.7
 115 74.4 47.8 71.6#



#2
 1,4-Dioxane
 Concen: 5.271 ng
 RT: 3.170 min Scan# 40
 Delta R.T. 0.000 min
 Lab File: BN035212.D
 Acq: 21 Nov 2024 00:49

Tgt Ion: 88 Resp: 13220
 Ion Ratio Lower Upper
 88 100
 43 19.8 16.9 25.3
 58 47.6 39.0 58.4

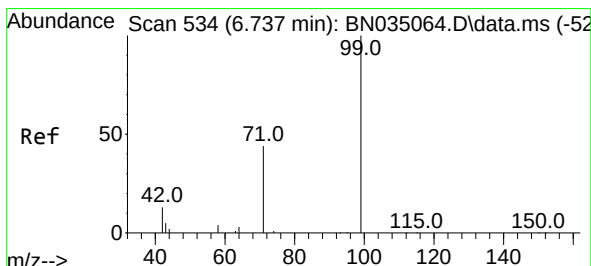
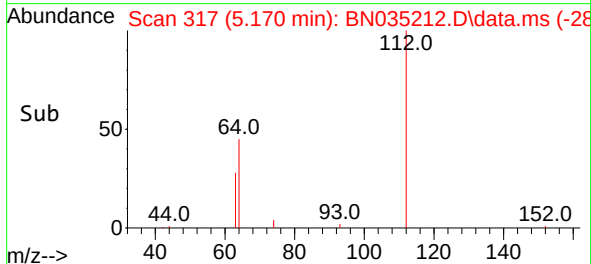
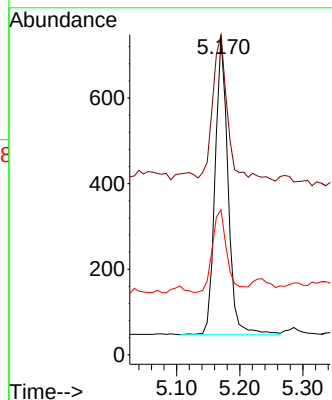
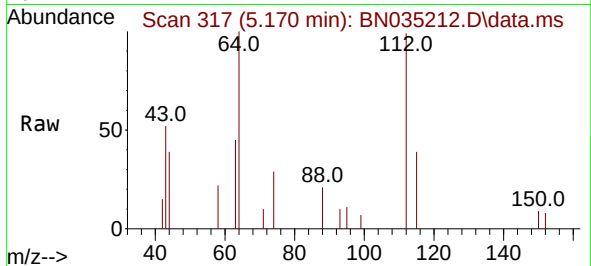




#4
2-Fluorophenol
Concen: 0.142 ng
RT: 5.170 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

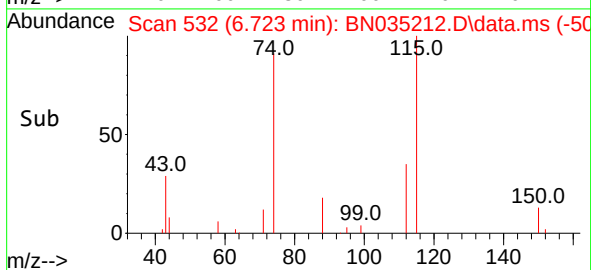
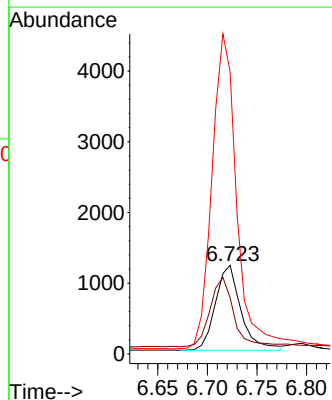
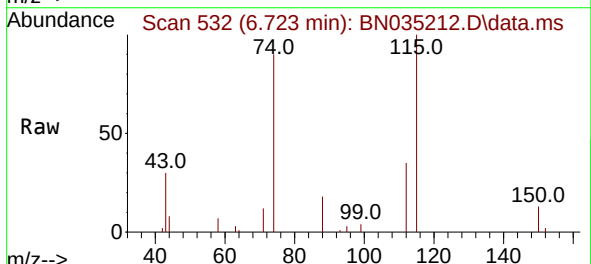
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

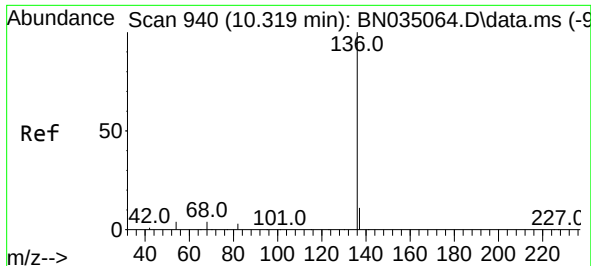
Tgt Ion:112 Resp: 992
Ion Ratio Lower Upper
112 100
64 60.6 39.7 59.5#
63 30.9 23.0 34.4



#5
Phenol-d6
Concen: 0.245 ng
RT: 6.723 min Scan# 532
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

Tgt Ion: 99 Resp: 2150
Ion Ratio Lower Upper
99 100
42 79.3 11.4 17.0#
71 373.1 34.6 51.8#

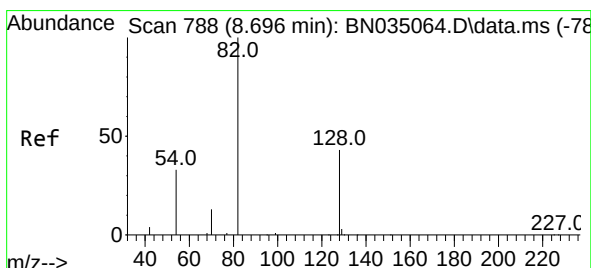
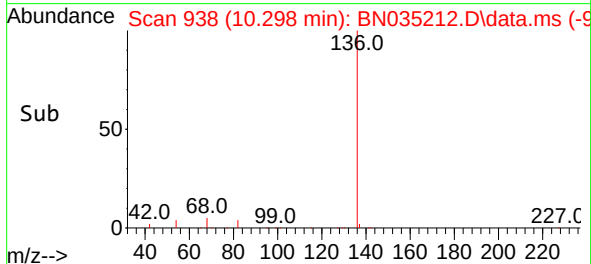
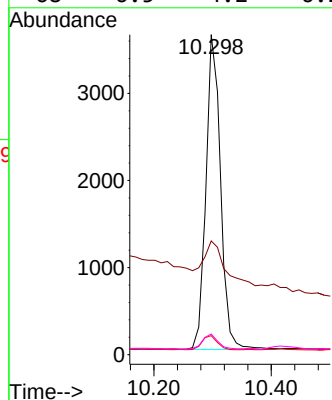
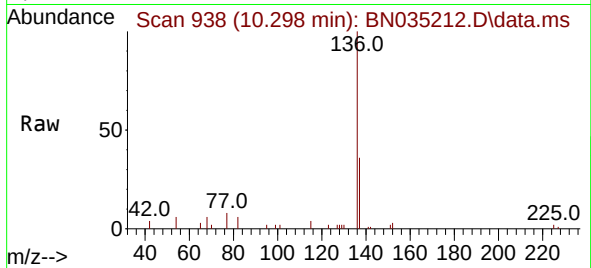




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.298 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

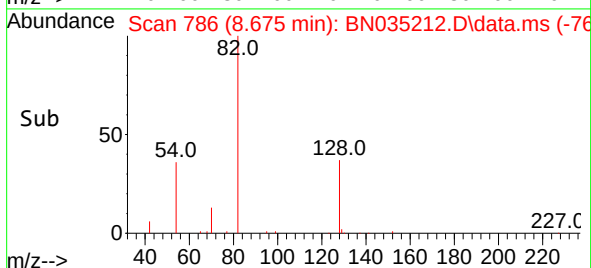
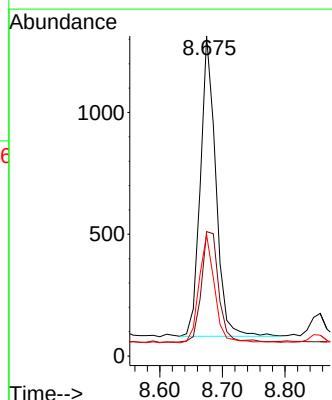
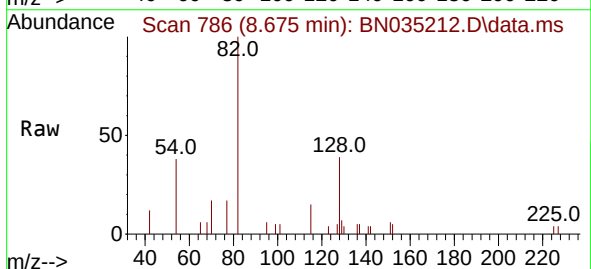
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

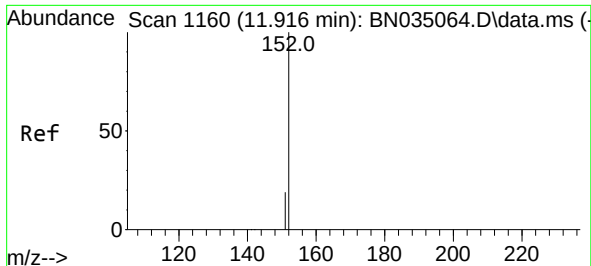
Tgt Ion:	136	Resp:	6281
Ion Ratio	Lower	Upper	
136	100		
137	35.6	9.8	14.8#
54	6.0	4.0	6.0
68	6.5	4.2	6.2#



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.675 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

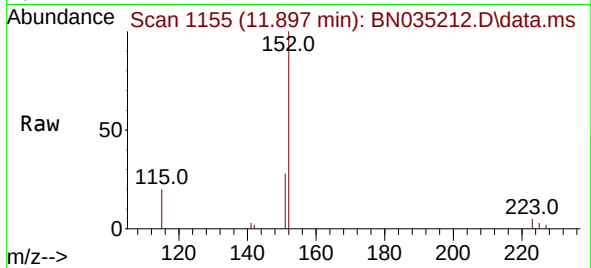
Tgt Ion:	82	Resp:	2111
Ion Ratio	Lower	Upper	
82	100		
128	38.9	36.5	54.7
54	37.9	28.7	43.1



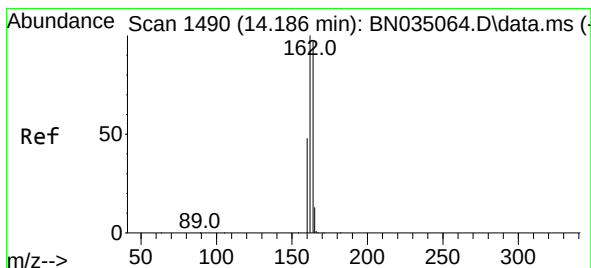
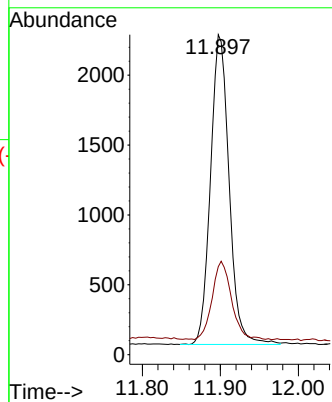
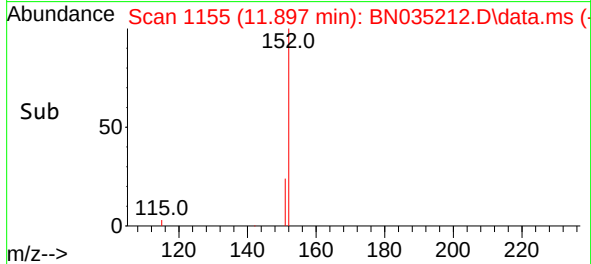


#11
2-Methylnaphthalene-d10
Concen: 0.328 ng
RT: 11.897 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

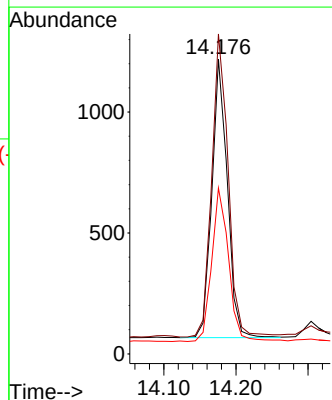
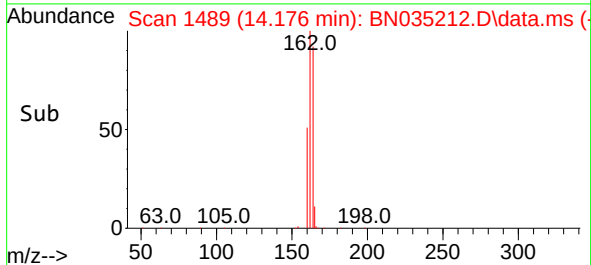
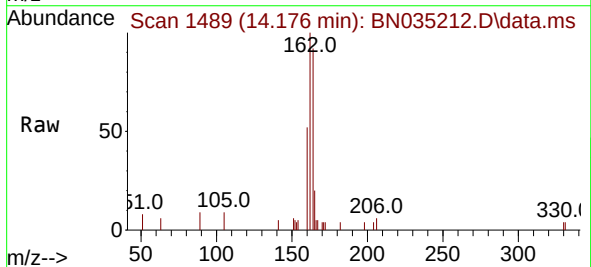


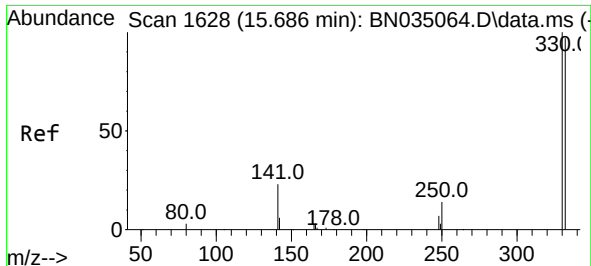
Tgt Ion:152 Resp: 3673
Ion Ratio Lower Upper
152 100
151 26.4 16.2 24.4#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.176 min Scan# 1489
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

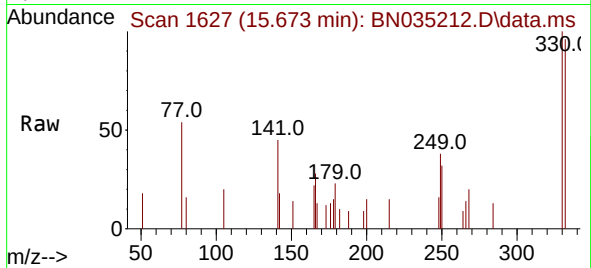
Tgt Ion:164 Resp: 1720
Ion Ratio Lower Upper
164 100
162 108.5 82.2 123.2
160 56.3 40.2 60.4



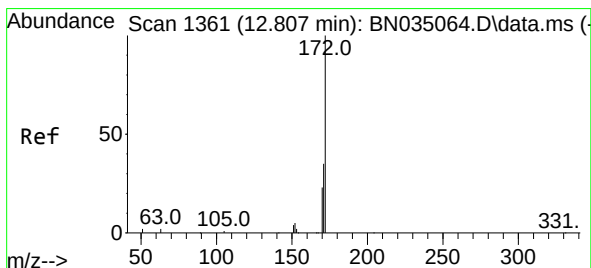
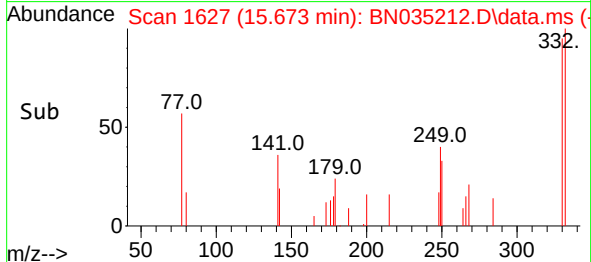
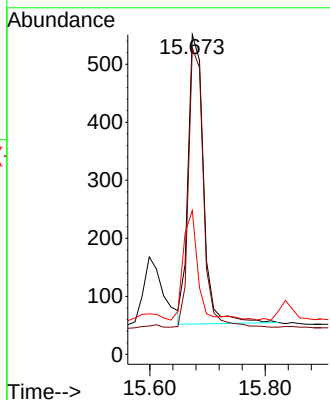


#14
2,4,6-Tribromophenol
Concen: 0.746 ng
RT: 15.673 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

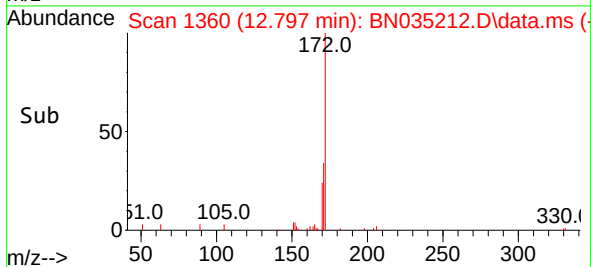
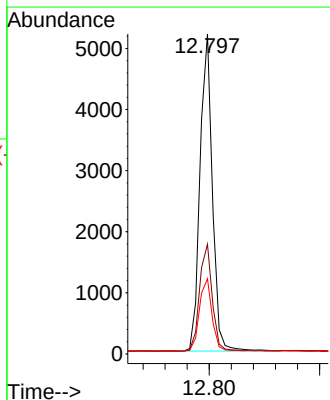
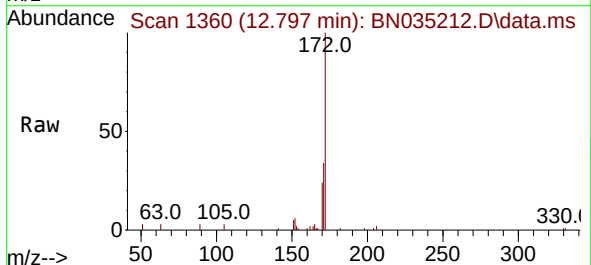


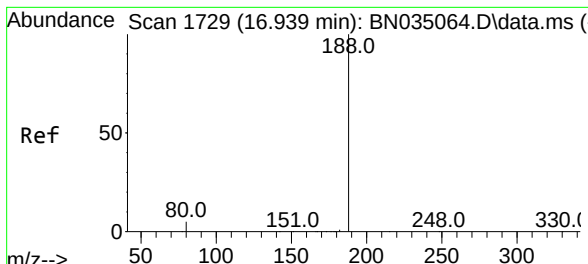
Tgt Ion:330 Resp: 926
Ion Ratio Lower Upper
330 100
332 93.3 76.9 115.3
141 36.7 29.6 44.4



#15
2-Fluorobiphenyl
Concen: 1.164 ng
RT: 12.797 min Scan# 1360
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

Tgt Ion:172 Resp: 8128
Ion Ratio Lower Upper
172 100
171 34.3 28.2 42.4
170 23.5 19.0 28.6

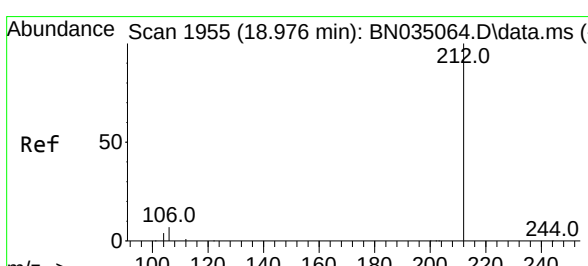
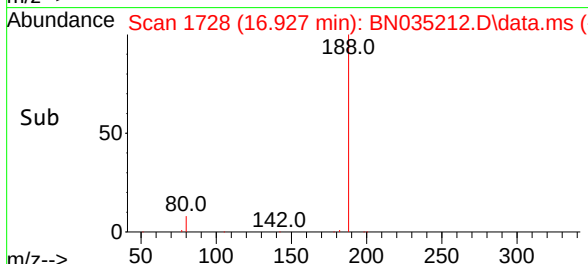
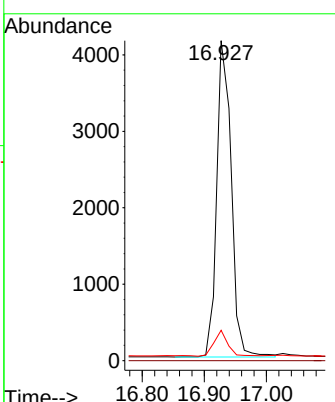
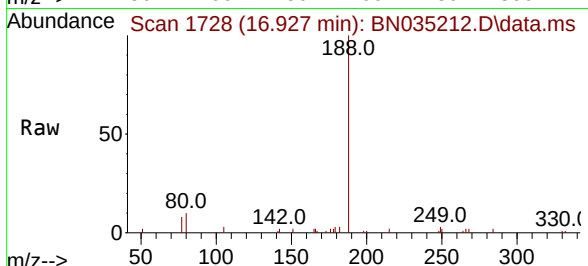




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.927 min Scan# 1728
 Delta R.T. 0.000 min
 Lab File: BN035212.D
 Acq: 21 Nov 2024 00:49

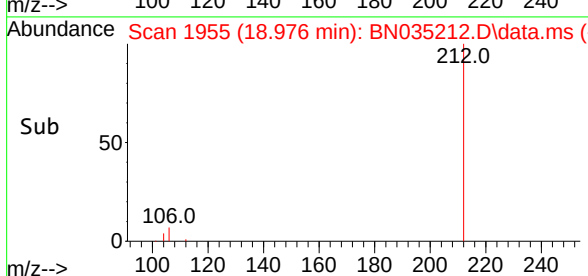
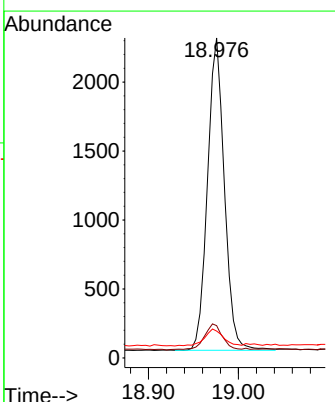
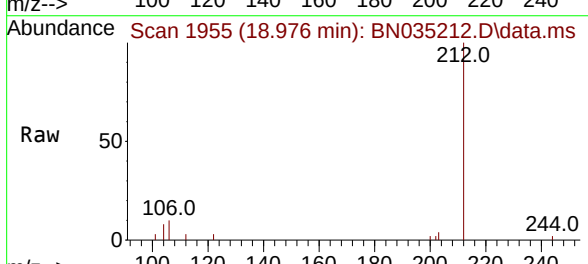
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP200-20241114

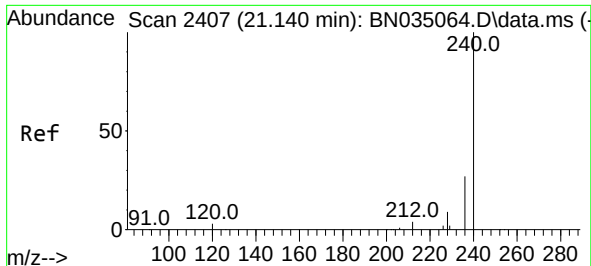
Tgt Ion:	188	Resp:	6689
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.5	4.3	6.5#



#27
 Fluoranthene-d10
 Concen: 0.144 ng
 RT: 18.976 min Scan# 1955
 Delta R.T. 0.000 min
 Lab File: BN035212.D
 Acq: 21 Nov 2024 00:49

Tgt Ion:	212	Resp:	2948
Ion Ratio	Lower	Upper	
212	100		
106	9.0	6.0	9.0#
104	5.9	3.5	5.3#

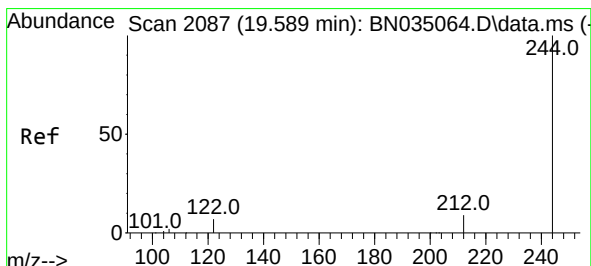
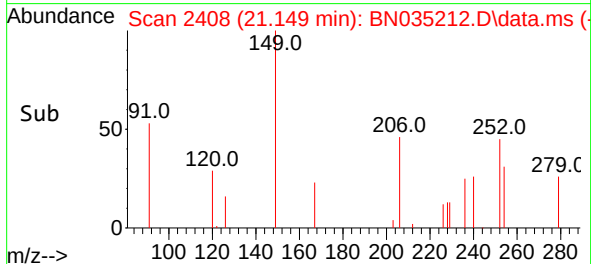
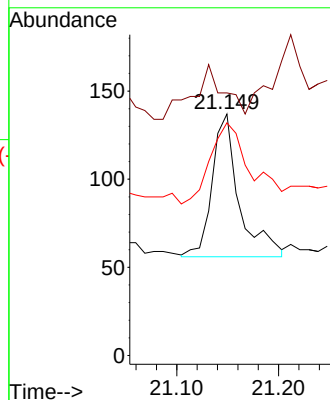
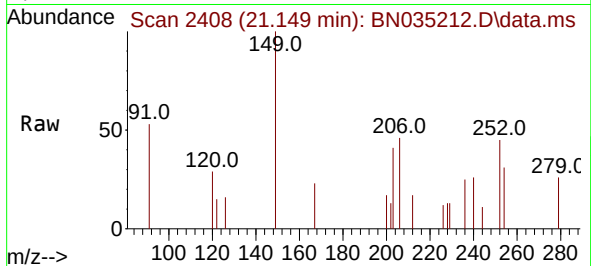




#29
Chrysene-d12
Concen: 0.400 ng m
RT: 21.149 min Scan# 2408
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

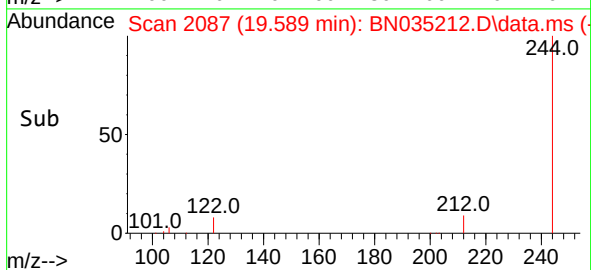
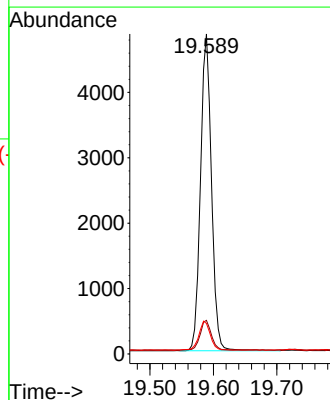
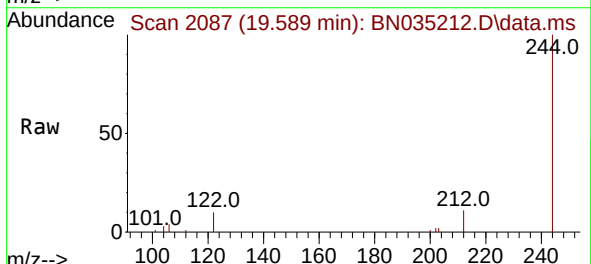
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

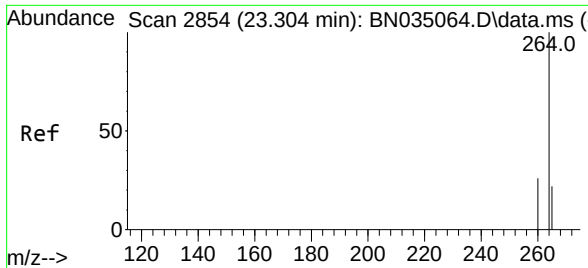
Tgt Ion:240 Resp: 149
Ion Ratio Lower Upper
240 100
120 108.8 3.8 5.6#
236 96.4 22.2 33.2#



#31
Terphenyl-d14
Concen: 18.612 ng
RT: 19.589 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

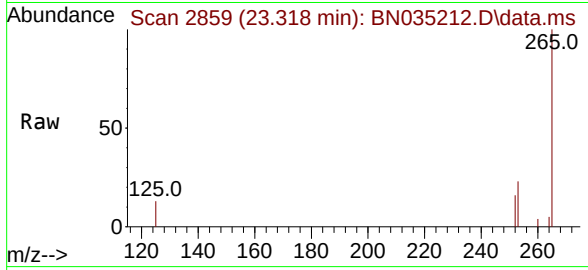
Tgt Ion:244 Resp: 5819
Ion Ratio Lower Upper
244 100
212 10.5 7.6 11.4
122 9.6 6.1 9.1#



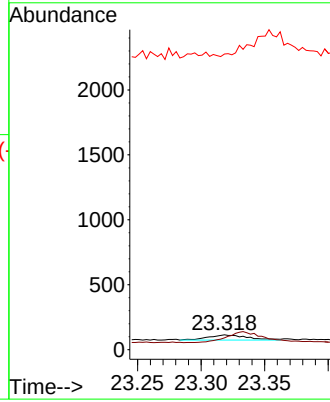
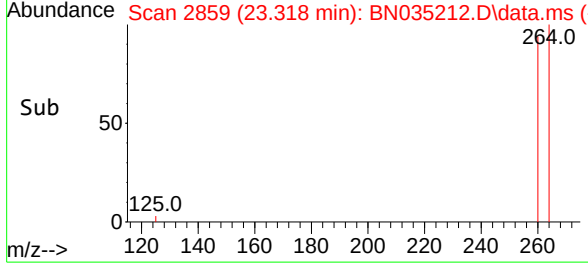


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.318 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN035212.D
Acq: 21 Nov 2024 00:49

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114



Tgt Ion:264 Resp: 86
Ion Ratio Lower Upper
264 100
260 79.1 20.9 31.3#
265 1980.0 35.4 53.2#





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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035066.D
 Acq On : 13 Nov 2024 15:04
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Nov 13 16:44:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

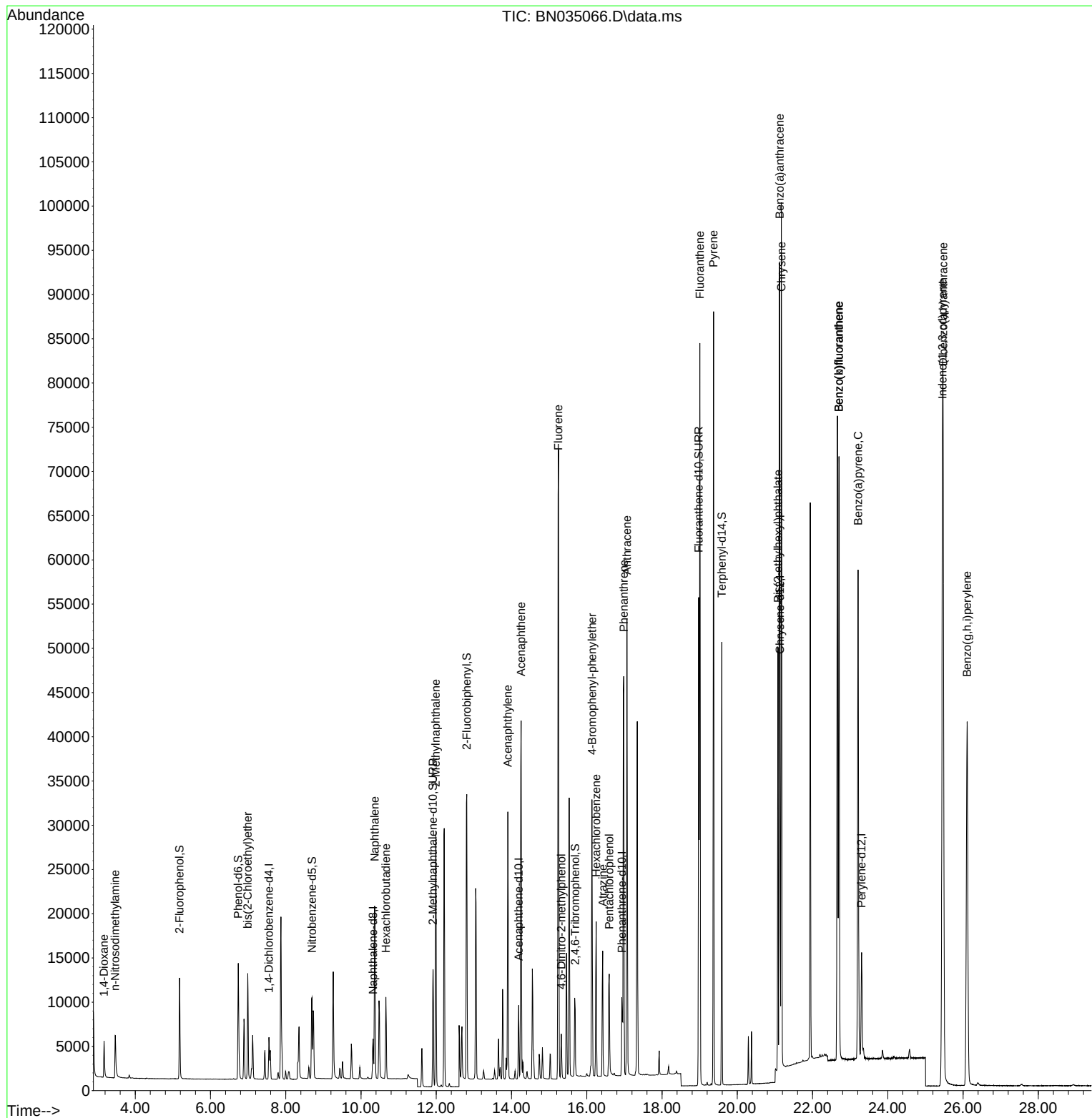
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2280	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5826	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4517	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12068	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	13823	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	15060	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	9427	1.629	ng	0.00
5) Phenol-d6	6.737	99	12023	1.657	ng	0.00
8) Nitrobenzene-d5	8.696	82	8306	1.643	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	17545	1.690	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	5402	1.659	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	30472	1.661	ng	0.00
27) Fluoranthene-d10	18.973	212	61972	1.676	ng	0.00
31) Terphenyl-d14	19.587	244	47914	1.652	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	3351	1.618	ng	98
3) n-Nitrosodimethylamine	3.465	42	3168	1.647	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	9071	1.665	ng	99
9) Naphthalene	10.362	128	25283	1.662	ng	98
10) Hexachlorobutadiene	10.660	225	7338	1.646	ng	# 99
12) 2-Methylnaphthalene	11.988	142	18997	1.693	ng	99
16) Acenaphthylene	13.901	152	32064	1.661	ng	99
17) Acenaphthene	14.254	154	20910	1.653	ng	99
18) Fluorene	15.238	166	30868	1.659	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	4259	1.695	ng	# 84
21) 4-Bromophenyl-phenylether	16.138	248	12888	1.676	ng	# 86
22) Hexachlorobenzene	16.250	284	13172	1.651	ng	99
23) Atrazine	16.424	200	11471	1.663	ng	# 93
24) Pentachlorophenol	16.597	266	6275	1.683	ng	98
25) Phenanthrene	16.982	178	52915	1.666	ng	99
26) Anthracene	17.069	178	49046	1.681	ng	100
28) Fluoranthene	19.006	202	73694	1.687	ng	100
30) Pyrene	19.368	202	75558	1.641	ng	100
32) Benzo(a)anthracene	21.125	228	78298	1.627	ng	100
33) Chrysene	21.169	228	78533	1.647	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	38807	1.549	ng	99
36) Indeno(1,2,3-cd)pyrene	25.452	276	99936	1.663	ng	100
37) Benzo(b)fluoranthene	22.701	252	84960	1.677	ng	96
38) Benzo(k)fluoranthene	22.701	252	84960	1.676	ng	# 95
39) Benzo(a)pyrene	23.209	252	74668	1.675	ng	# 94
40) Dibenzo(a,h)anthracene	25.469	278	79628	1.673	ng	98
41) Benzo(g,h,i)perylene	26.107	276	83498	1.649	ng	98

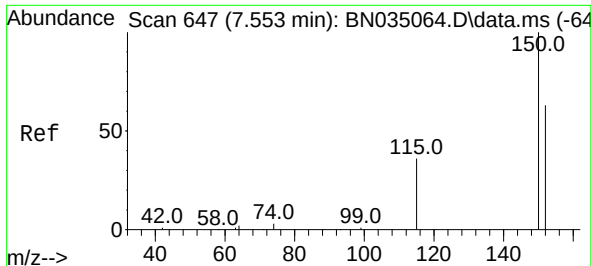
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035066.D
Acq On : 13 Nov 2024 15:04
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

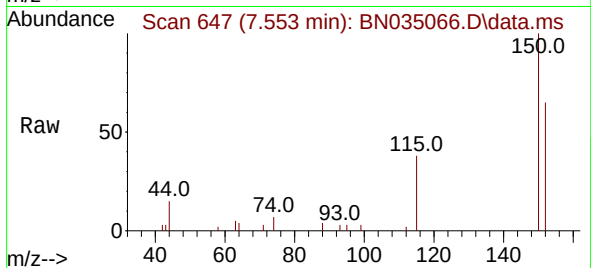
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



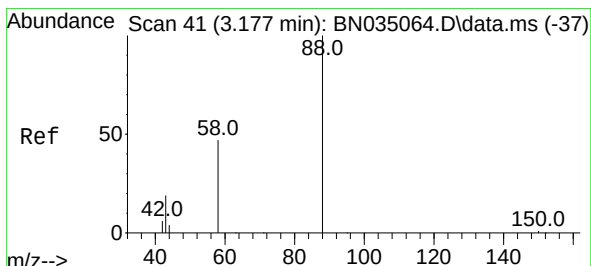
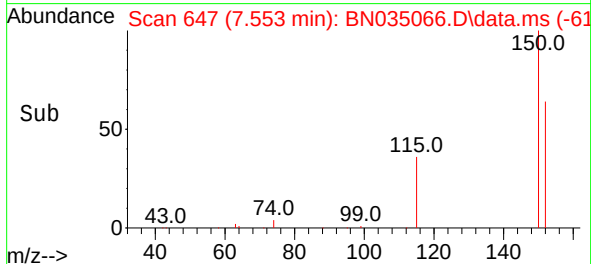
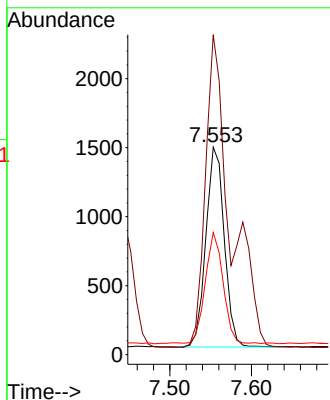


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

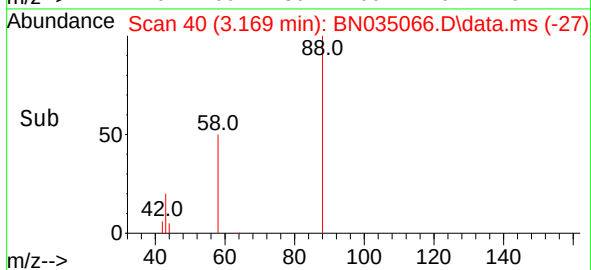
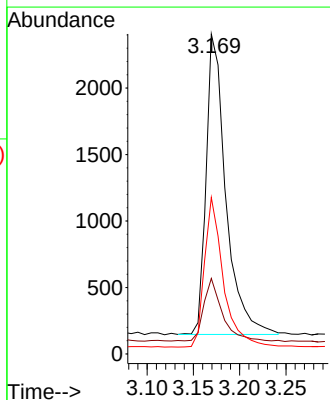
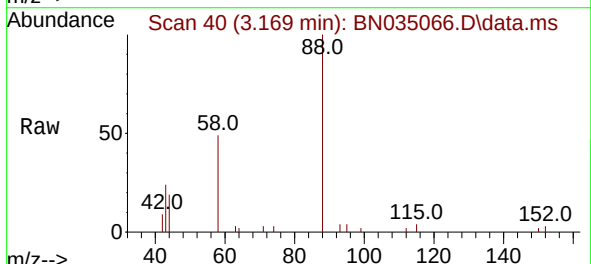


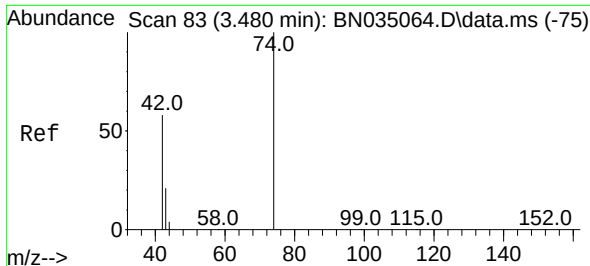
Tgt Ion:152 Resp: 2280
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 58.9 47.8 71.6



#2
1,4-Dioxane
Concen: 1.618 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 88 Resp: 3351
Ion Ratio Lower Upper
88 100
43 20.3 16.9 25.3
58 47.7 39.0 58.4

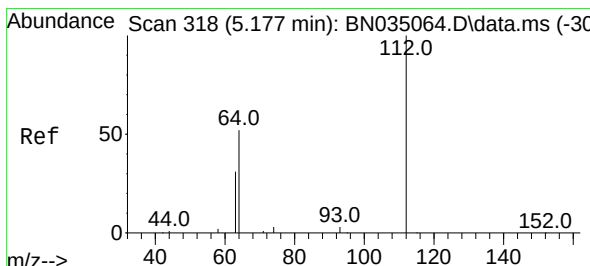
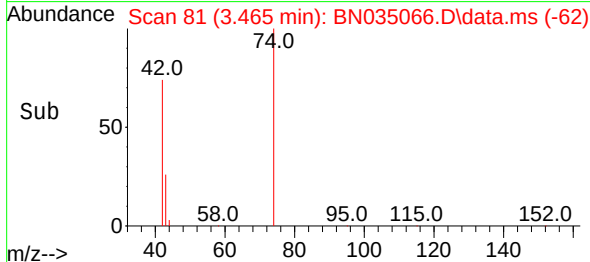
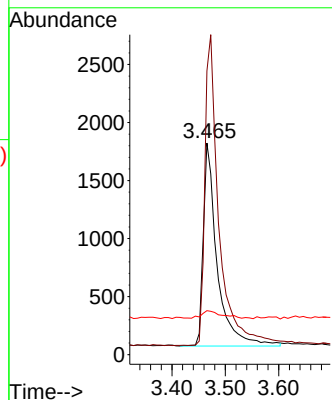
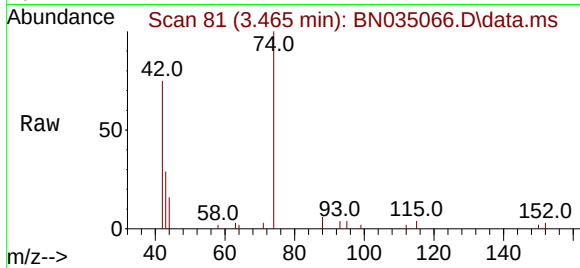




#3
 n-Nitrosodimethylamine
 Concen: 1.647 ng
 RT: 3.465 min Scan# 81
 Delta R.T. -0.015 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

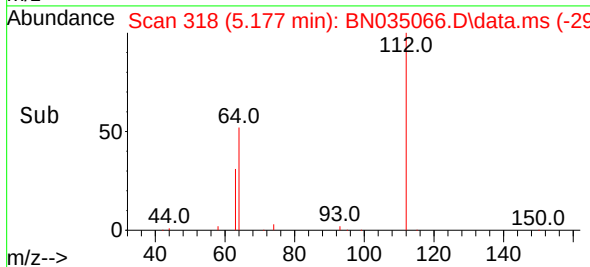
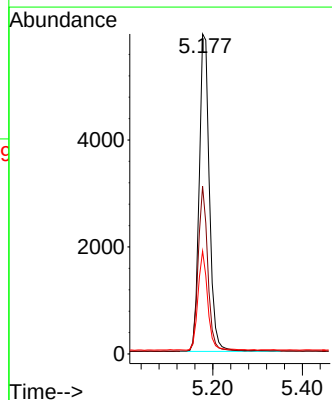
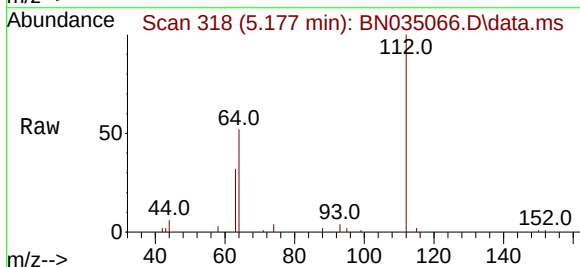
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

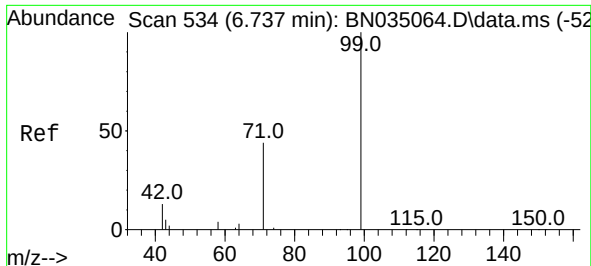
Tgt Ion: 42 Resp: 3168
 Ion Ratio Lower Upper
 42 100
 74 155.0 120.8 181.2
 44 6.3 2.9 4.3#



#4
 2-Fluorophenol
 Concen: 1.629 ng
 RT: 5.177 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Tgt Ion: 112 Resp: 9427
 Ion Ratio Lower Upper
 112 100
 64 48.8 39.7 59.5
 63 29.4 23.0 34.4

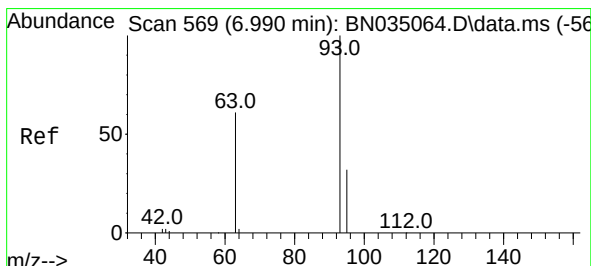
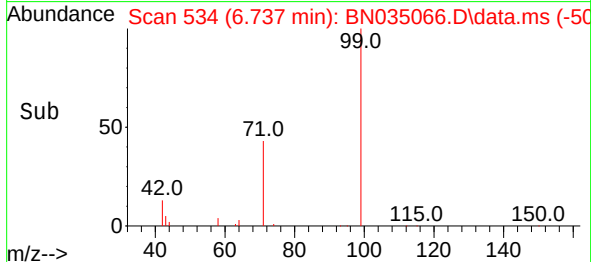
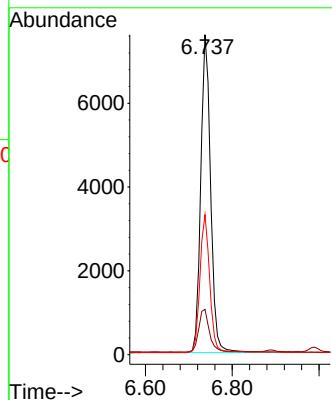
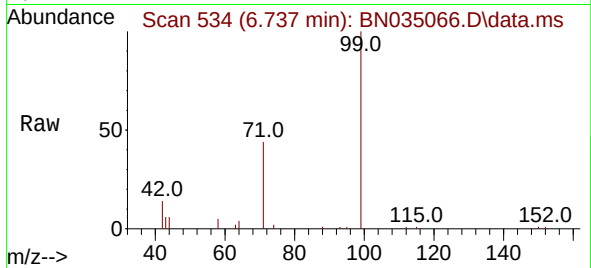




#5
Phenol-d6
Concen: 1.657 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

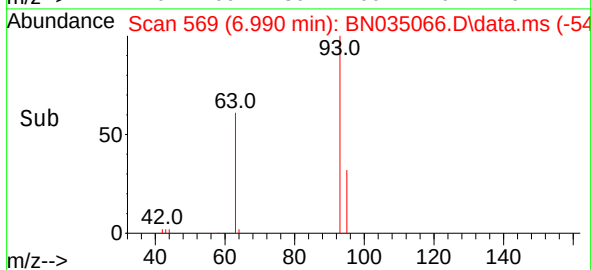
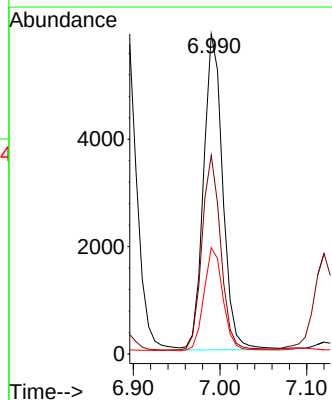
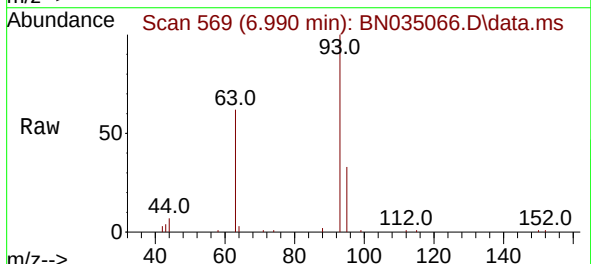
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

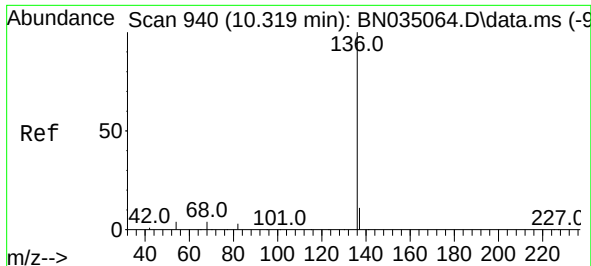
Tgt Ion: 99 Resp: 12023
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 42.9 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 1.665 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 93 Resp: 9071
Ion Ratio Lower Upper
93 100
63 60.3 47.4 71.2
95 32.3 26.2 39.4

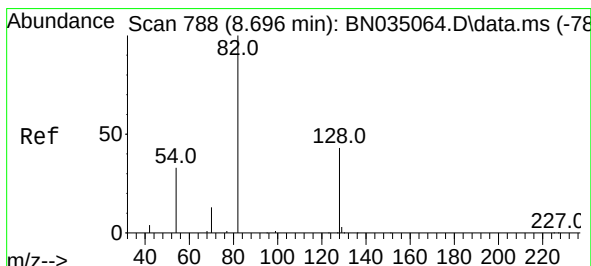
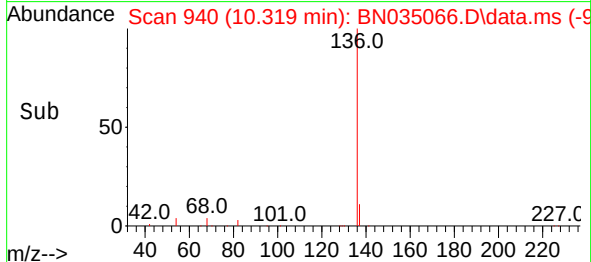
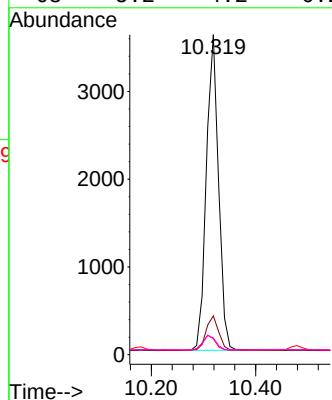
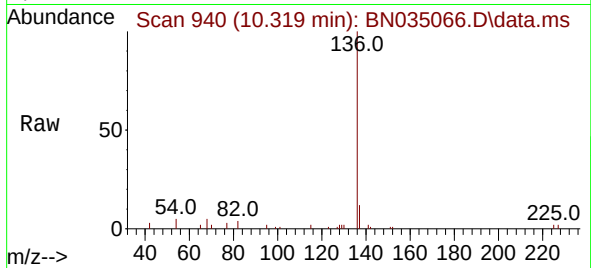




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

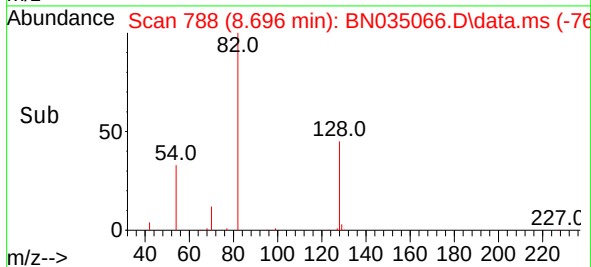
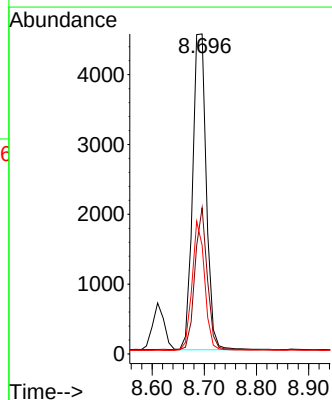
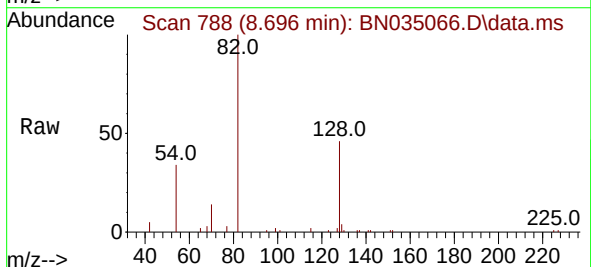
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

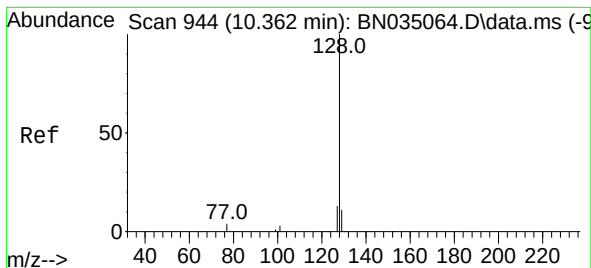
Tgt Ion:	136	Resp:	5826
Ion Ratio	Lower	Upper	
136	100		
137	12.2	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2



#8
Nitrobenzene-d5
Concen: 1.643 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:	82	Resp:	8306
Ion Ratio	Lower	Upper	
82	100		
128	45.7	36.5	54.7
54	34.0	28.7	43.1





#9

Naphthalene

Concen: 1.662 ng

RT: 10.362 min Scan# 944

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

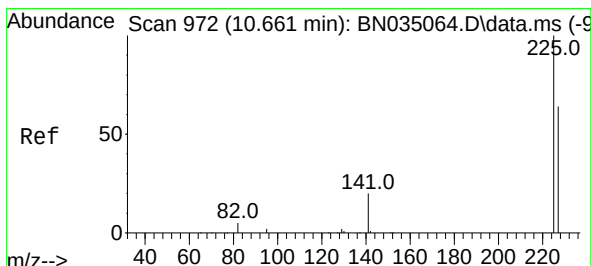
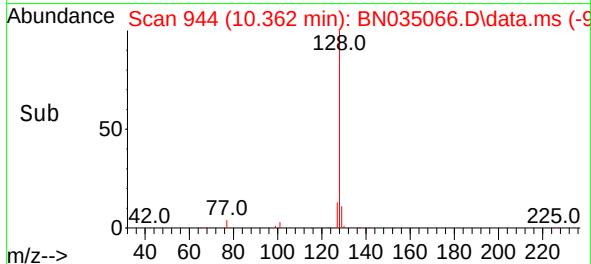
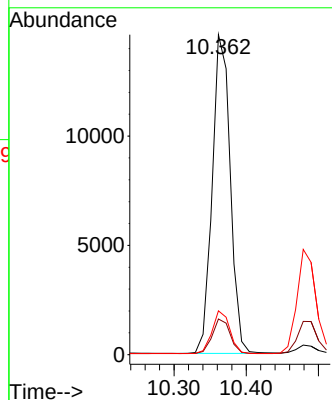
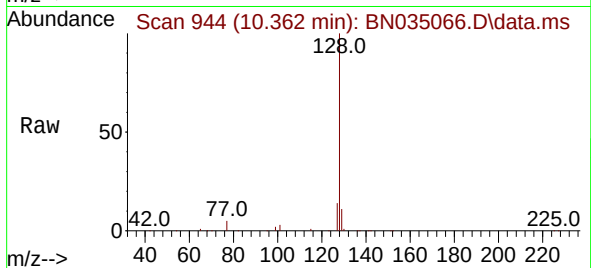
Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:	128	Resp:	25283
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.6	14.4
127	13.7	11.6	17.4



#10

Hexachlorobutadiene

Concen: 1.646 ng

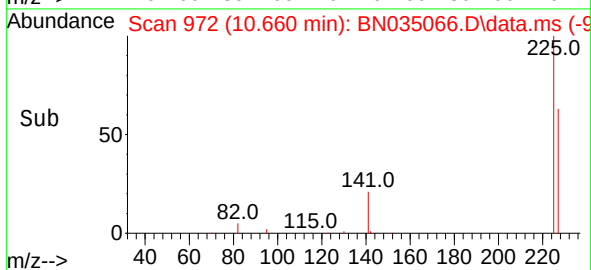
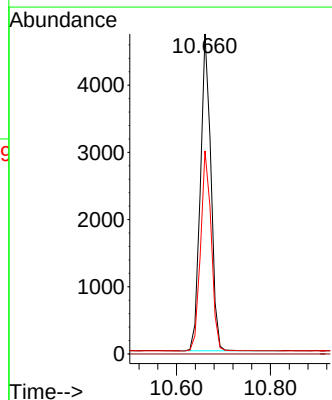
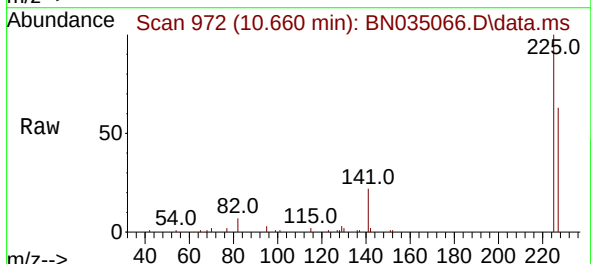
RT: 10.660 min Scan# 972

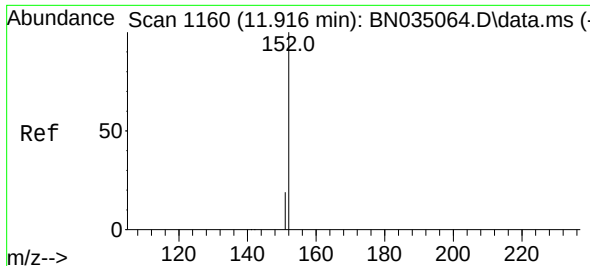
Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:	225	Resp:	7338
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.0	51.5	77.3

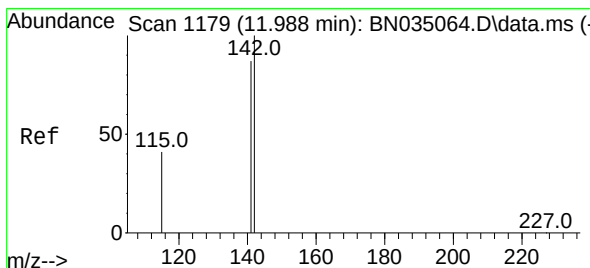
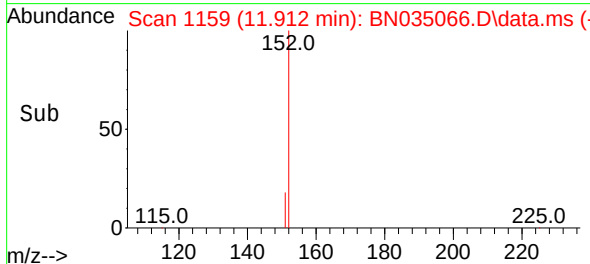
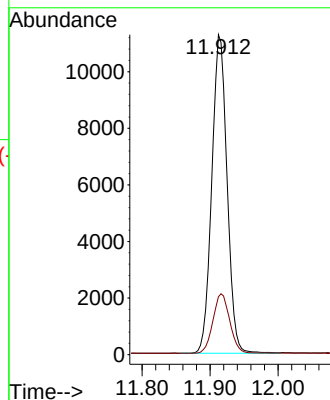
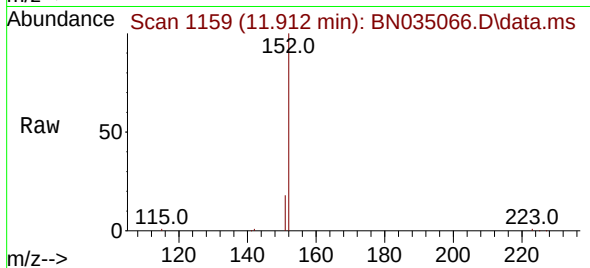




#11
2-Methylnaphthalene-d10
Concen: 1.690 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

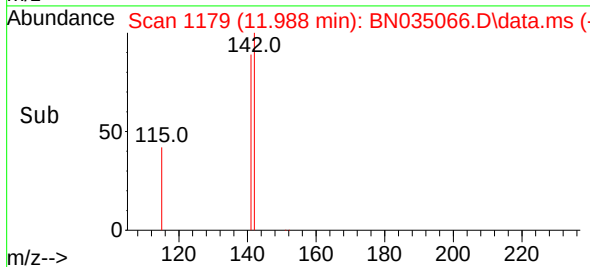
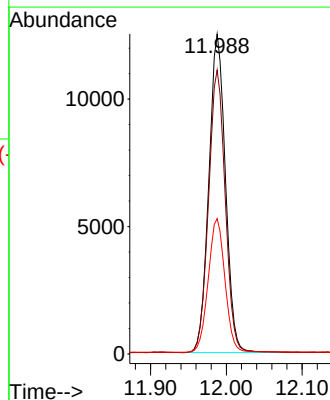
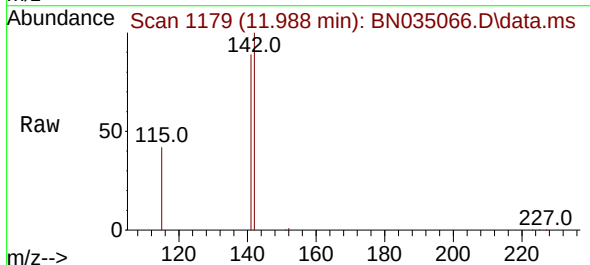
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

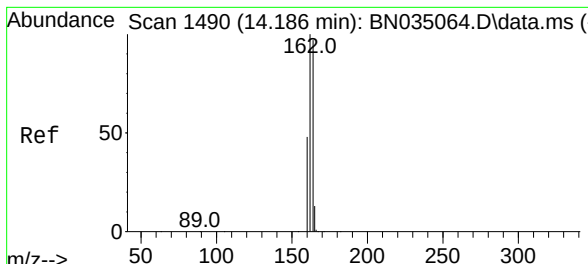
Tgt Ion:152 Resp: 17545
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4



#12
2-Methylnaphthalene
Concen: 1.693 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:142 Resp: 18997
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 42.3 34.4 51.6

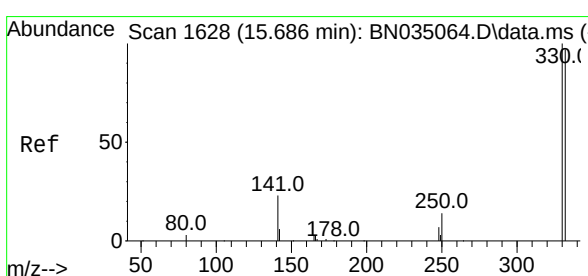
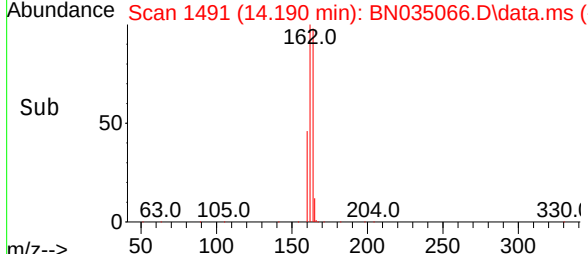
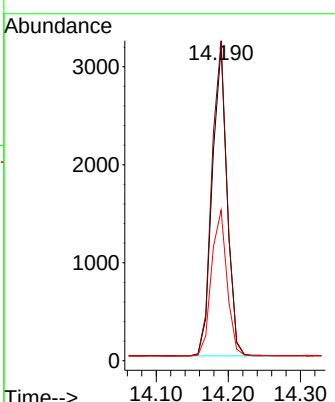
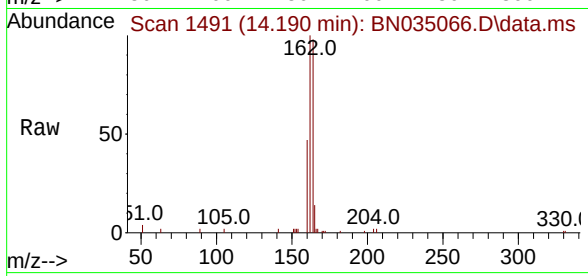




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.190 min Scan# 14
 Delta R.T. 0.004 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

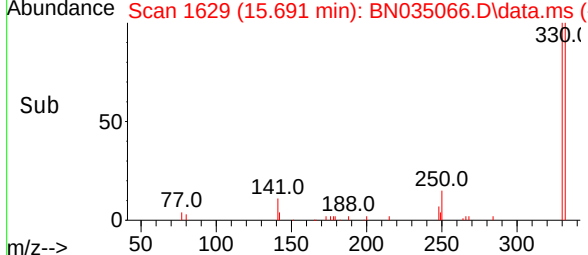
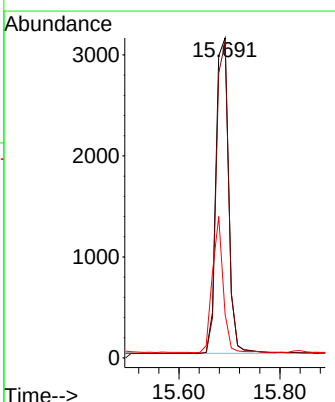
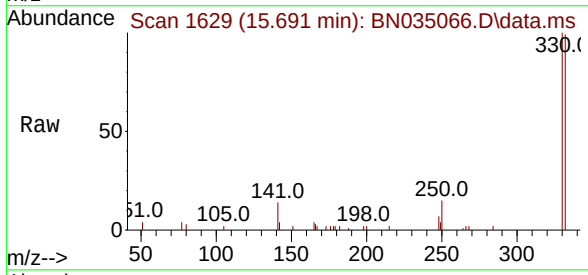
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

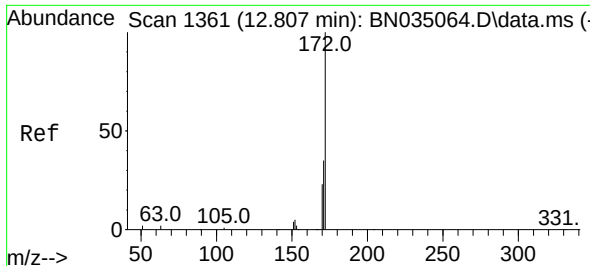
Tgt Ion:	164	Resp:	4517
Ion Ratio	Lower	Upper	
164	100		
162	101.8	82.2	123.2
160	47.9	40.2	60.4



#14
 2,4,6-Tribromophenol
 Concen: 1.659 ng
 RT: 15.691 min Scan# 1629
 Delta R.T. 0.005 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Tgt Ion:	330	Resp:	5402
Ion Ratio	Lower	Upper	
330	100		
332	96.8	76.9	115.3
141	37.2	29.6	44.4





#15

2-Fluorobiphenyl

Concen: 1.661 ng

RT: 12.811 min Scan# 1362

Delta R.T. 0.004 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

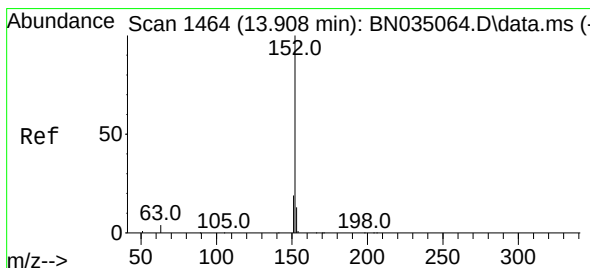
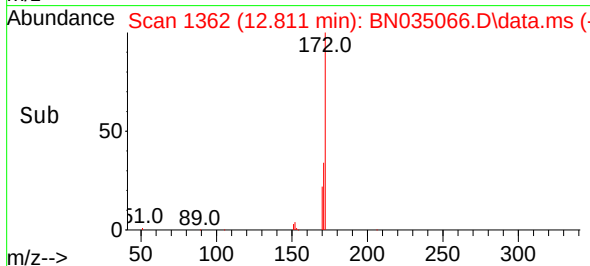
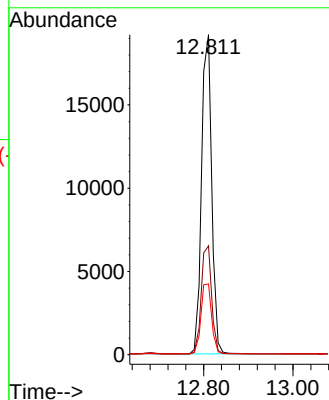
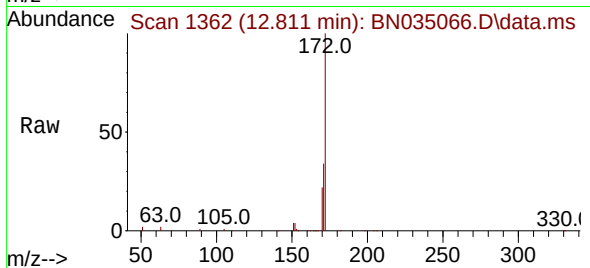
Tgt Ion:172 Resp: 30472

Ion Ratio Lower Upper

172 100

171 34.0 28.2 42.4

170 22.1 19.0 28.6



#16

Acenaphthylene

Concen: 1.661 ng

RT: 13.901 min Scan# 1464

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

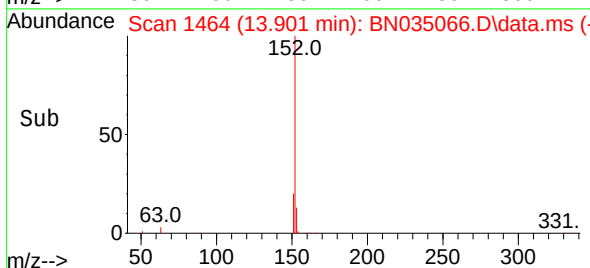
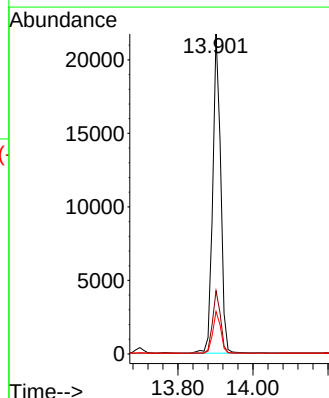
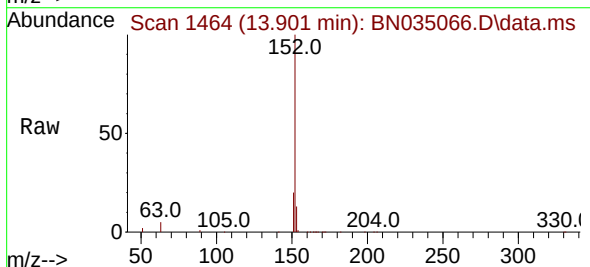
Tgt Ion:152 Resp: 32064

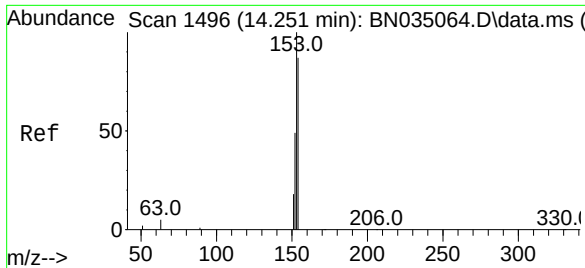
Ion Ratio Lower Upper

152 100

151 19.5 15.8 23.8

153 13.1 10.2 15.4

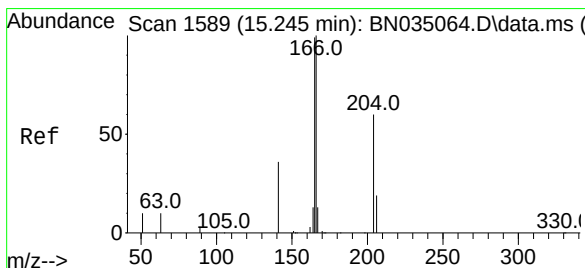
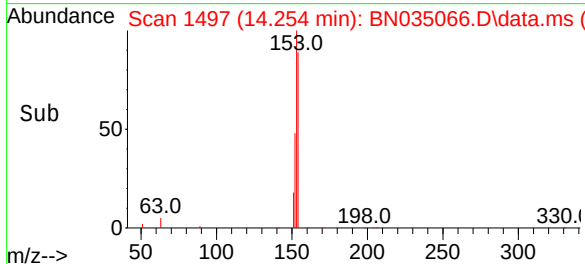
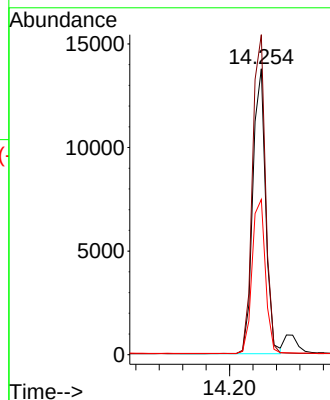
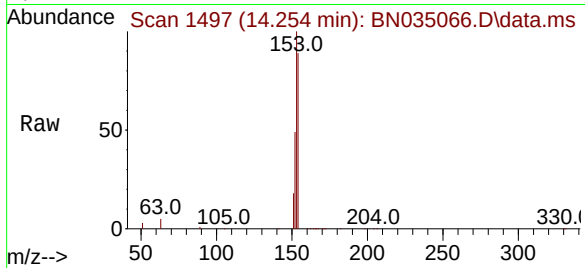




#17
Acenaphthene
Concen: 1.653 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

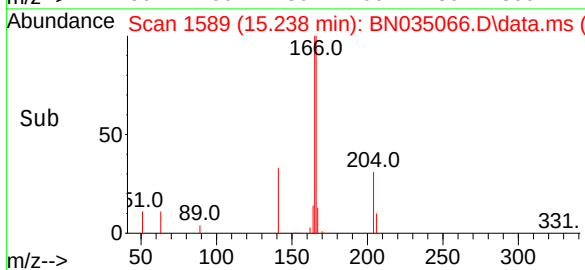
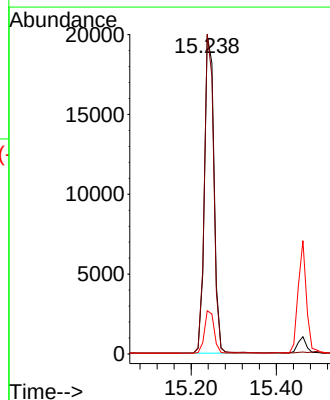
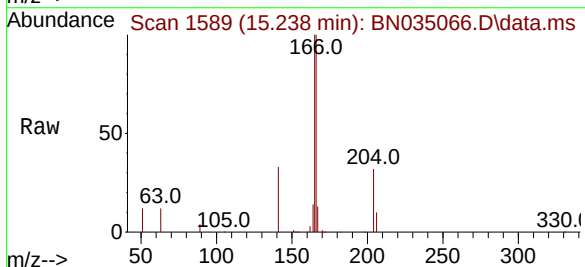
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

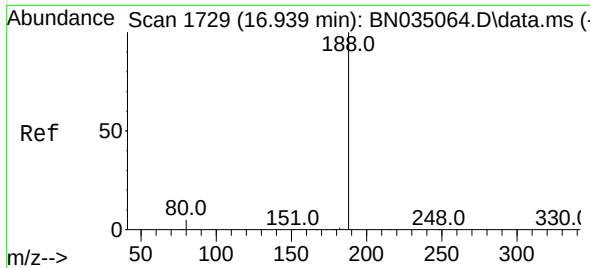
Tgt Ion:154 Resp: 20910
Ion Ratio Lower Upper
154 100
153 113.4 91.6 137.4
152 56.5 45.8 68.6



#18
Fluorene
Concen: 1.659 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:166 Resp: 30868
Ion Ratio Lower Upper
166 100
165 98.0 79.1 118.7
167 13.4 10.6 16.0

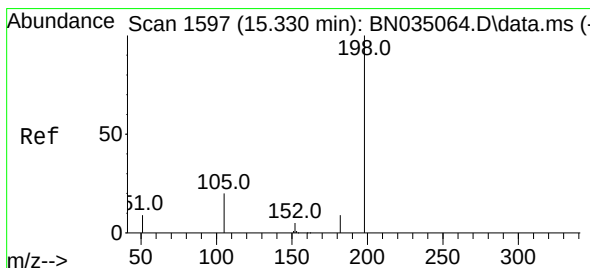
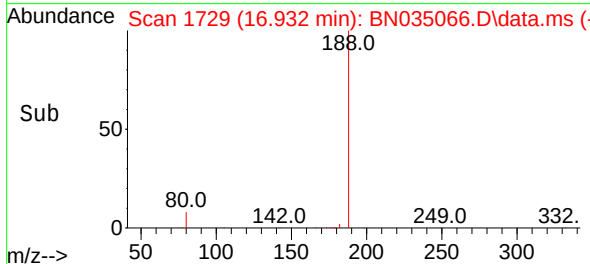
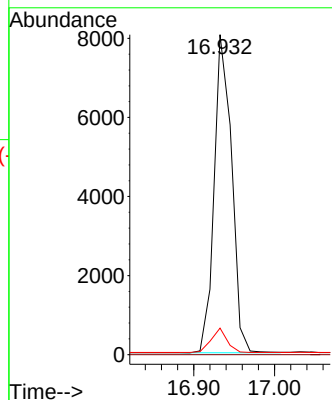
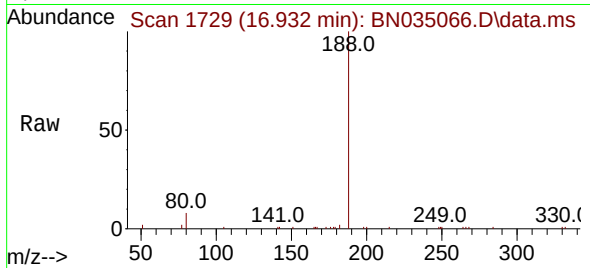




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

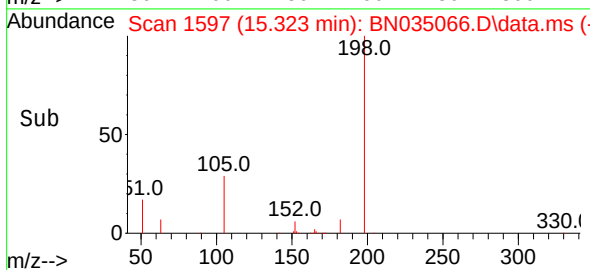
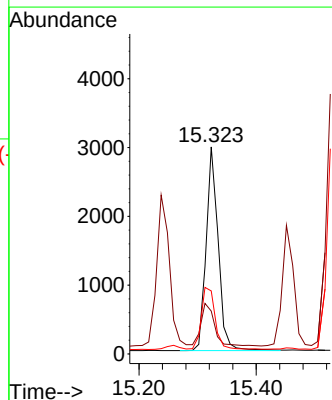
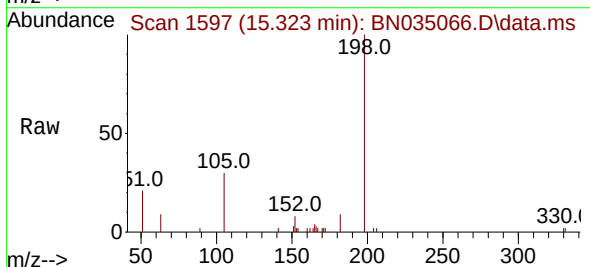
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

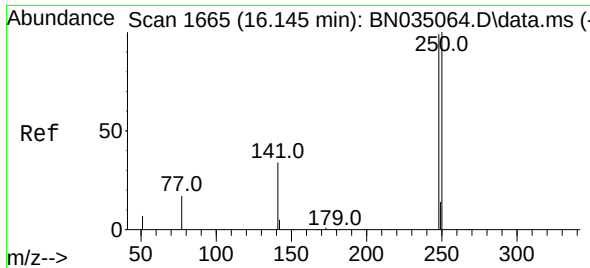
Tgt Ion:188 Resp: 12068
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.3 6.5#



#20
4,6-Dinitro-2-methylphenol
Concen: 1.695 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:198 Resp: 4259
Ion Ratio Lower Upper
198 100
51 20.7 29.9 44.9#
105 30.5 23.7 35.5

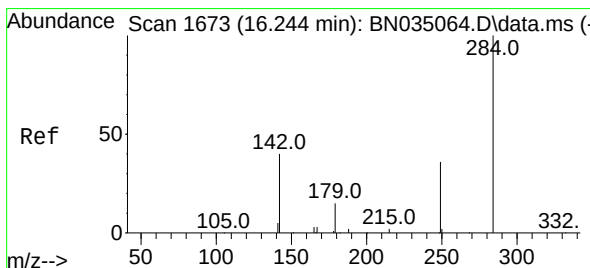
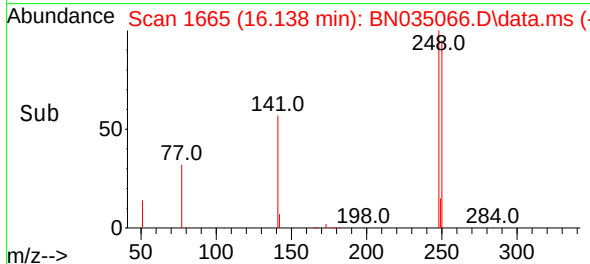
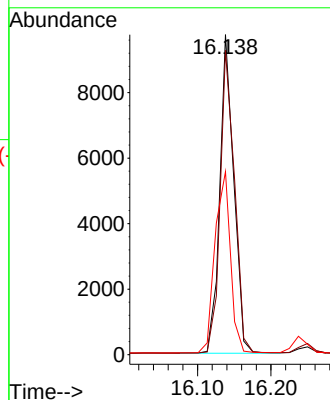
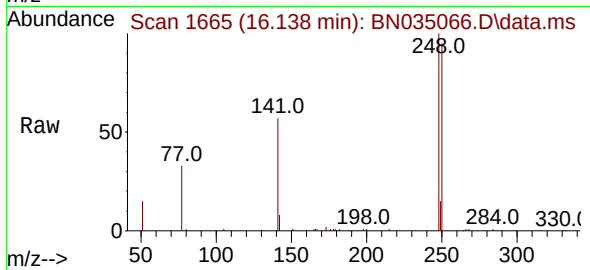




#21
4-Bromophenyl-phenylether
Concen: 1.676 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

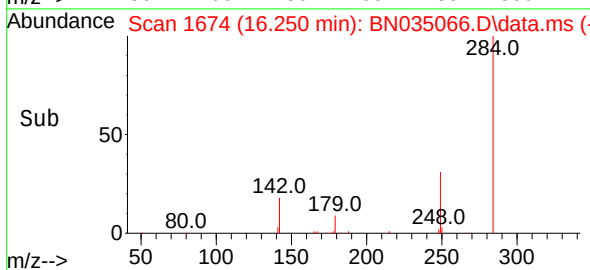
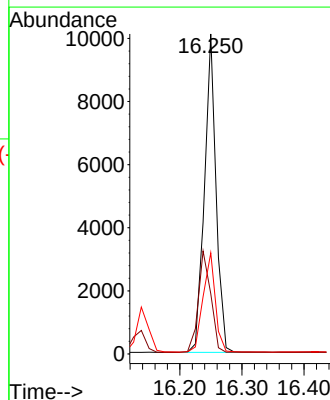
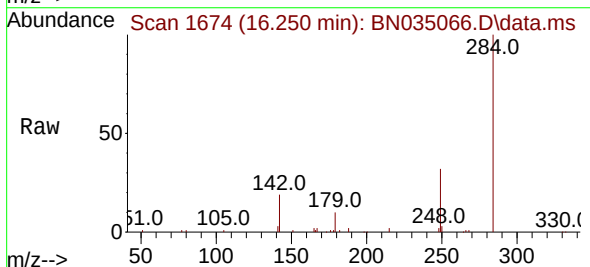
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

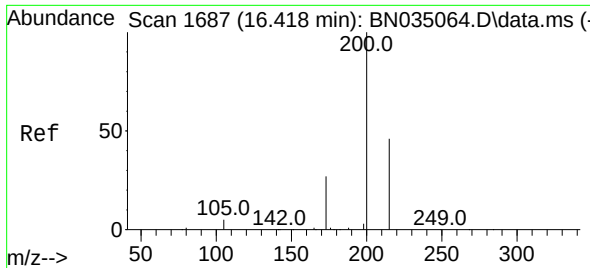
Tgt Ion:248 Resp: 12888
Ion Ratio Lower Upper
248 100
250 95.0 81.2 121.8
141 57.2 29.1 43.7#



#22
Hexachlorobenzene
Concen: 1.651 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:284 Resp: 13172
Ion Ratio Lower Upper
284 100
142 34.0 28.2 42.4
249 32.5 26.2 39.2

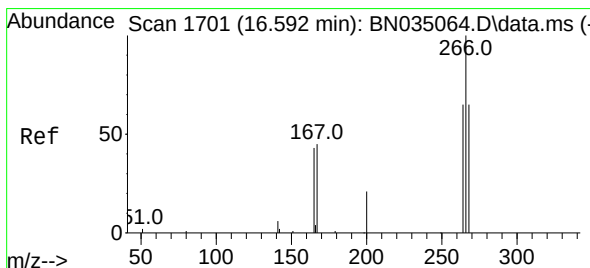
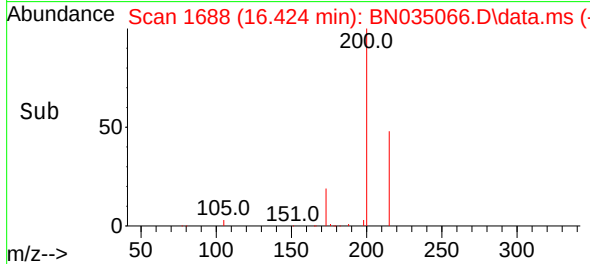
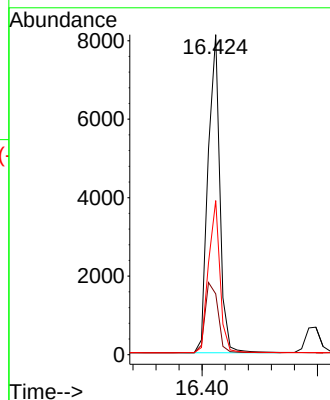
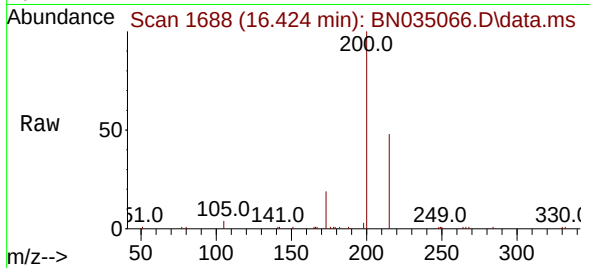




#23
Atrazine
Concen: 1.663 ng
RT: 16.424 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

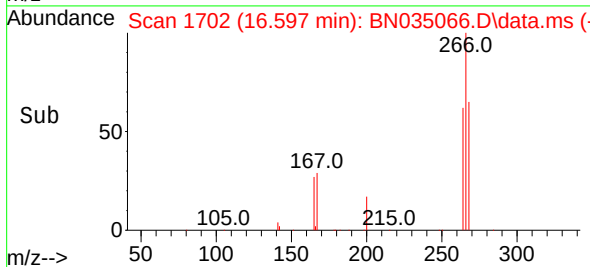
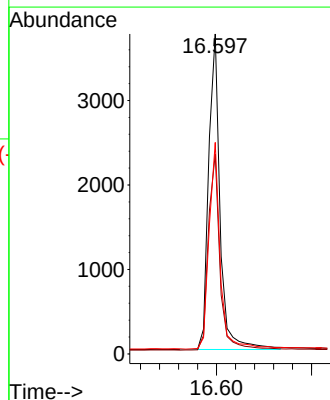
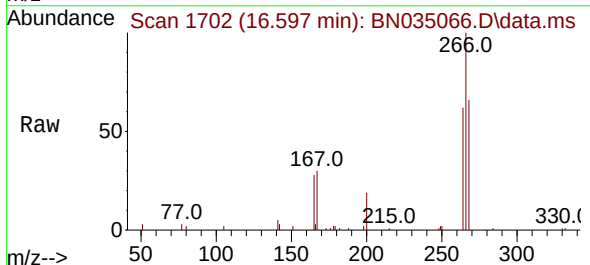
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

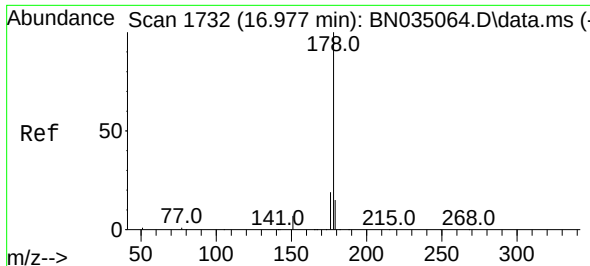
Tgt Ion:200 Resp: 11471
Ion Ratio Lower Upper
200 100
173 19.0 22.6 33.8#
215 48.2 37.8 56.6



#24
Pentachlorophenol
Concen: 1.683 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:266 Resp: 6275
Ion Ratio Lower Upper
266 100
264 63.2 49.4 74.0
268 63.7 52.6 79.0

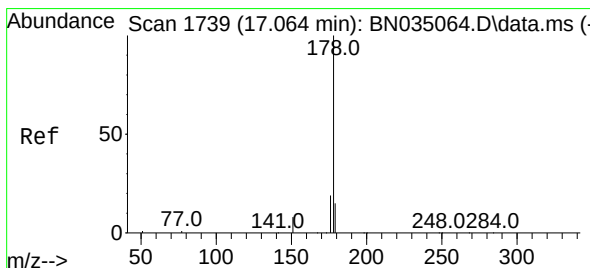
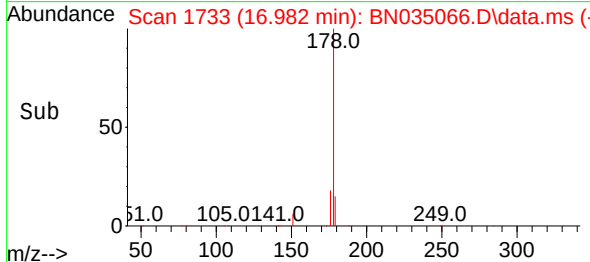
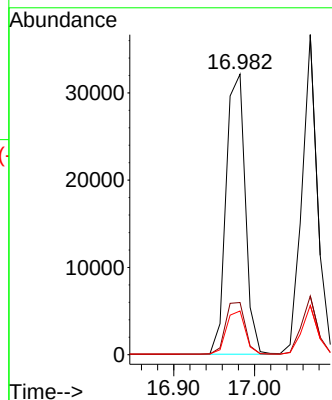
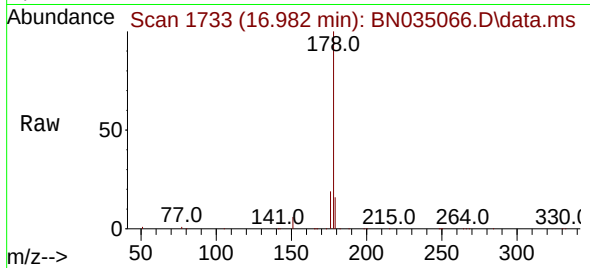




#25
Phenanthrene
Concen: 1.666 ng
RT: 16.982 min Scan# 1733
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

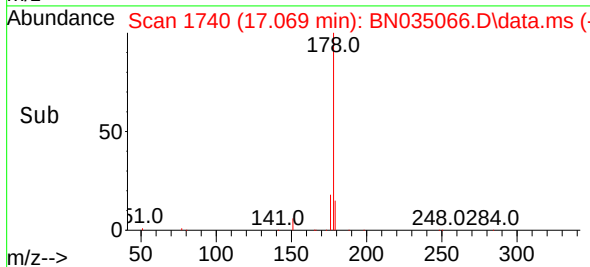
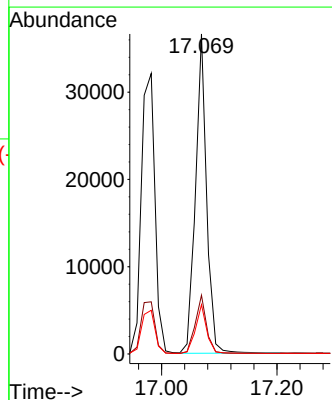
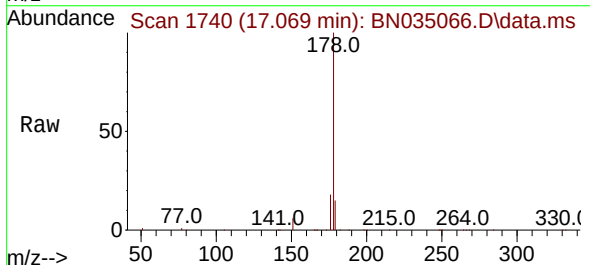
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

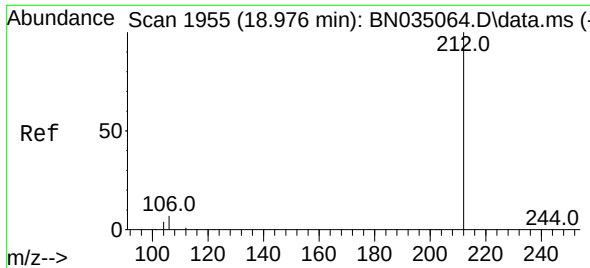
Tgt Ion:178 Resp: 52915
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.3 12.6 18.8



#26
Anthracene
Concen: 1.681 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:178 Resp: 49046
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.3 12.2 18.2

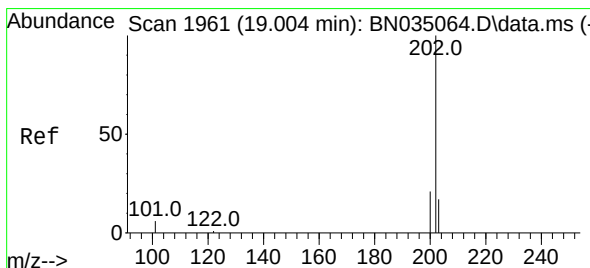
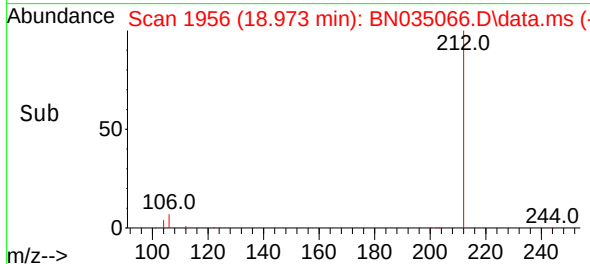
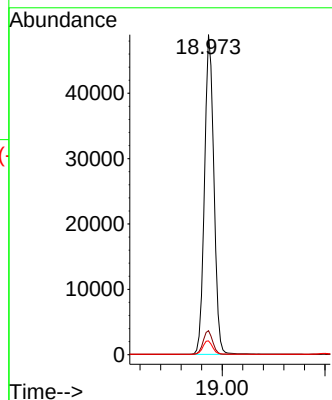
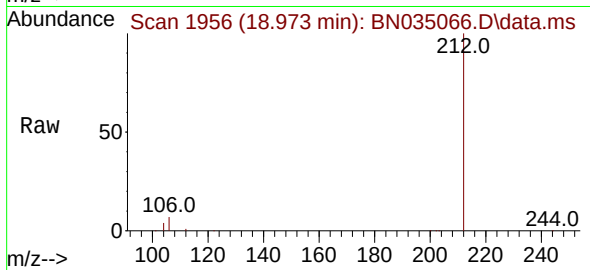




#27
Fluoranthene-d10
Concen: 1.676 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

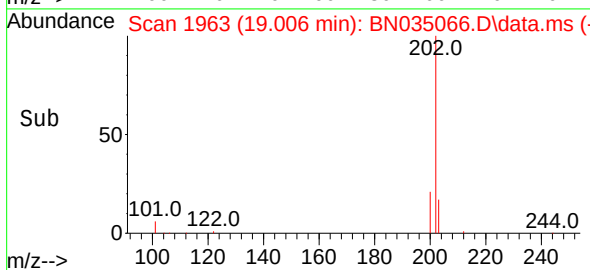
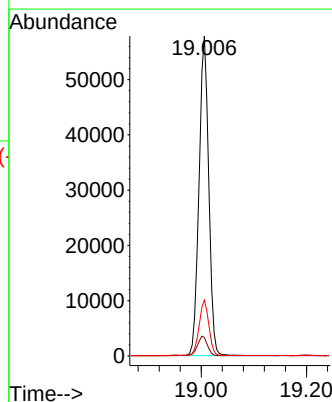
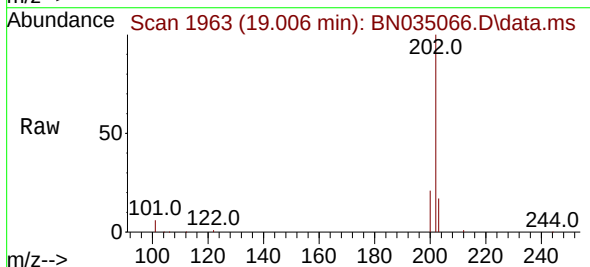
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

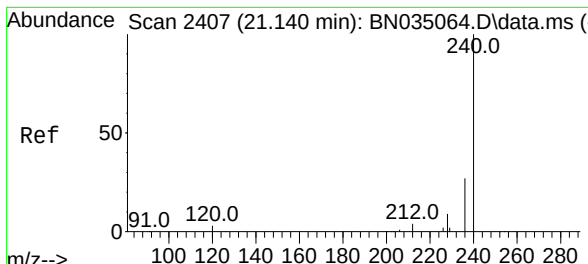
Tgt Ion:212 Resp: 61972
Ion Ratio Lower Upper
212 100
106 7.5 6.0 9.0
104 4.3 3.5 5.3



#28
Fluoranthene
Concen: 1.687 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 73694
Ion Ratio Lower Upper
202 100
101 6.3 5.2 7.8
203 17.4 13.8 20.8



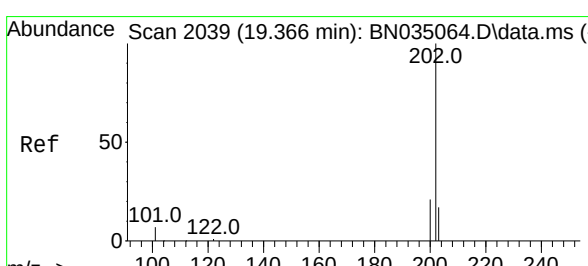
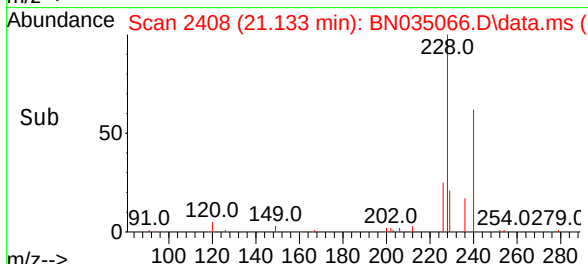
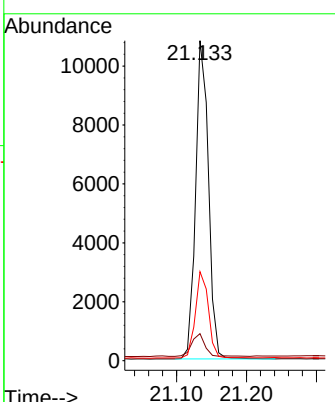
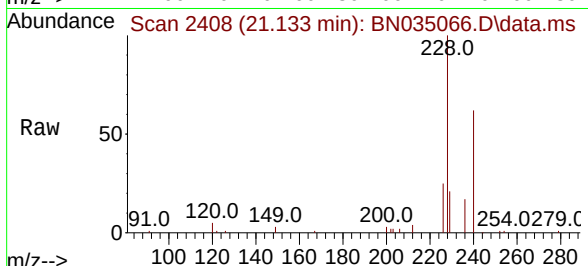


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.133 min Scan# 2408
 Delta R.T. -0.007 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

Tgt Ion: 240 Resp: 13823

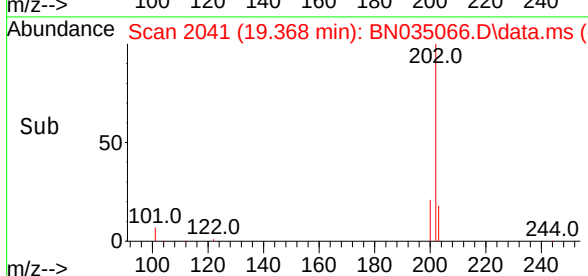
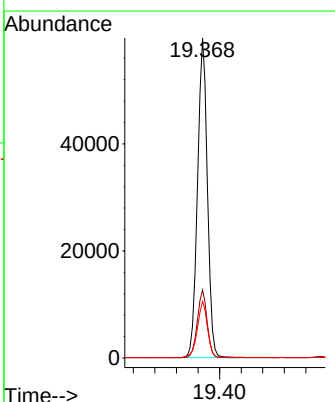
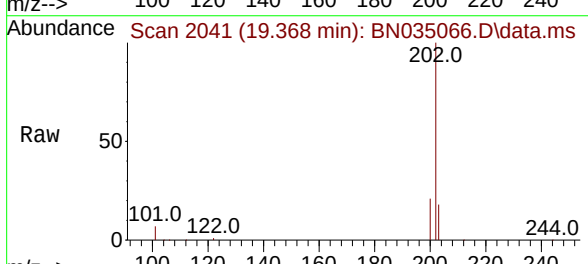
Ion	Ratio	Lower	Upper
240	100		
120	8.5	3.8	5.6#
236	27.8	22.2	33.2

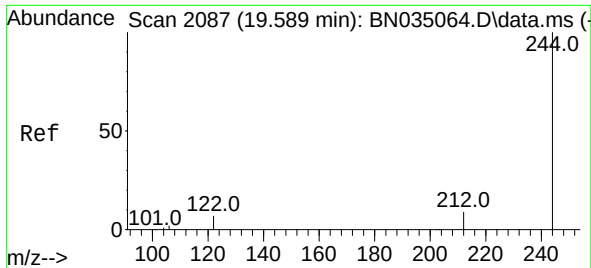


#30
 Pyrene
 Concen: 1.641 ng
 RT: 19.368 min Scan# 2041
 Delta R.T. 0.002 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Tgt Ion: 202 Resp: 75558

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4

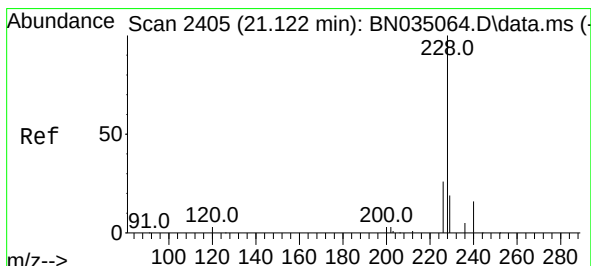
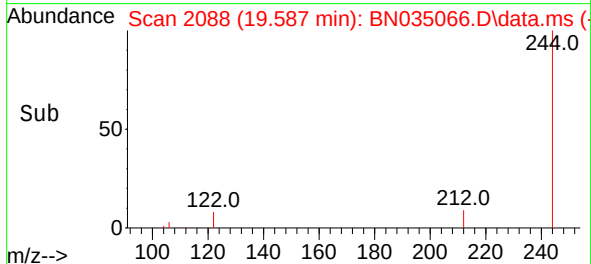
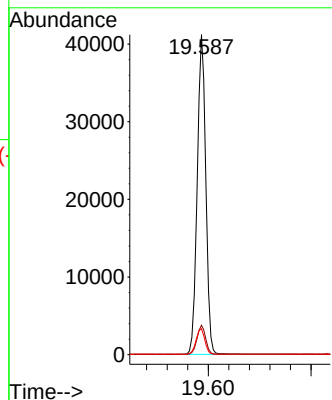
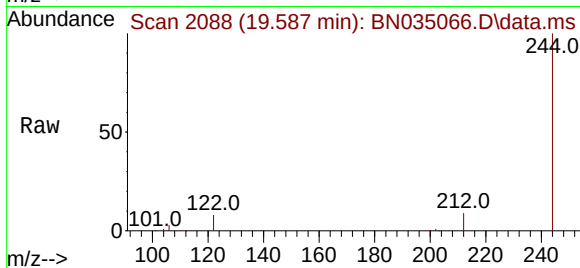




#31
Terphenyl-d14
Concen: 1.652 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

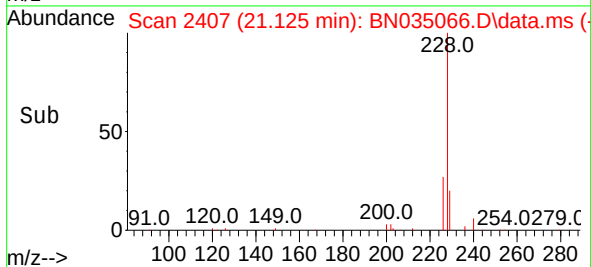
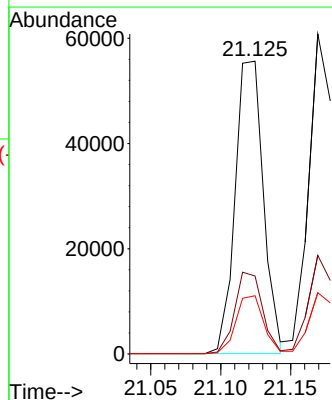
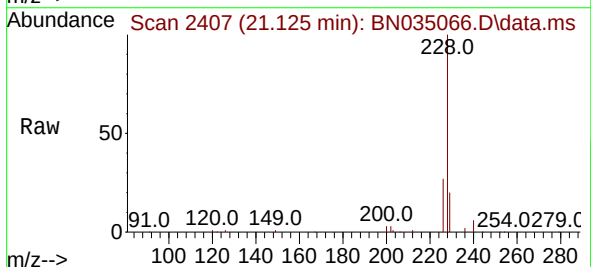
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

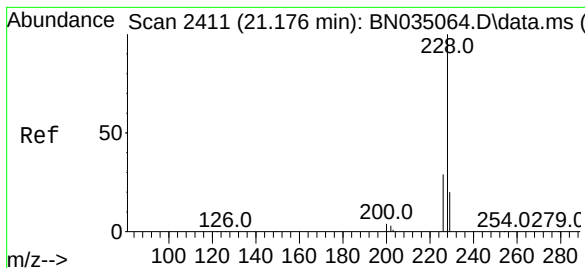
Tgt Ion:244 Resp: 47914
Ion Ratio Lower Upper
244 100
212 9.2 7.6 11.4
122 8.1 6.1 9.1



#32
Benzo(a)anthracene
Concen: 1.627 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:228 Resp: 78298
Ion Ratio Lower Upper
228 100
226 26.6 21.4 32.0
229 19.9 15.7 23.5





#33

Chrysene

Concen: 1.647 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

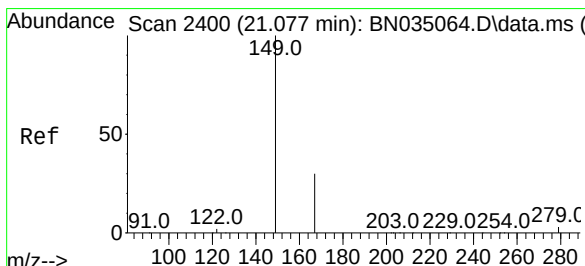
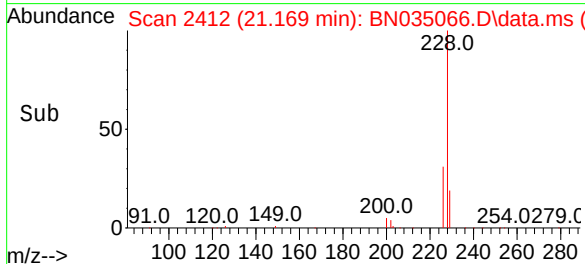
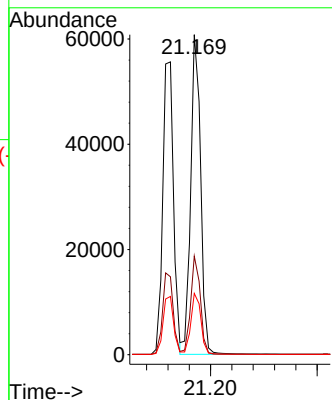
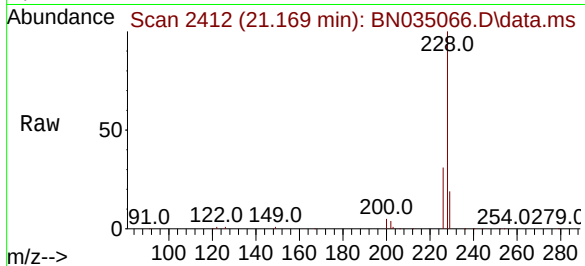
Tgt Ion:228 Resp: 78533

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

229 19.2 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.549 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

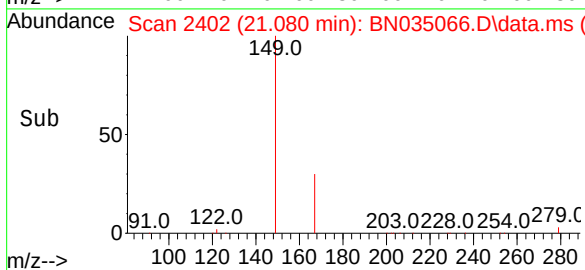
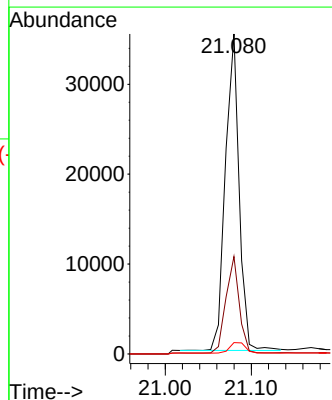
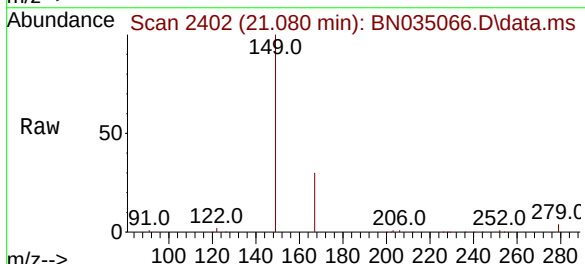
Tgt Ion:149 Resp: 38807

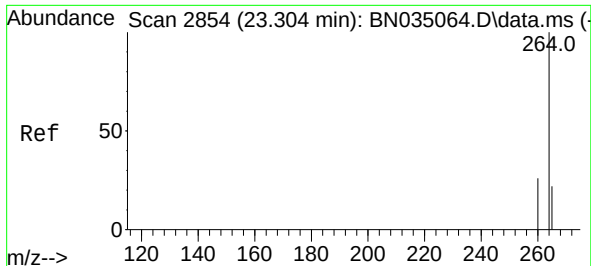
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035066.D

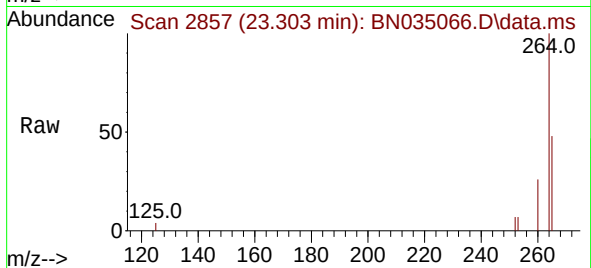
Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



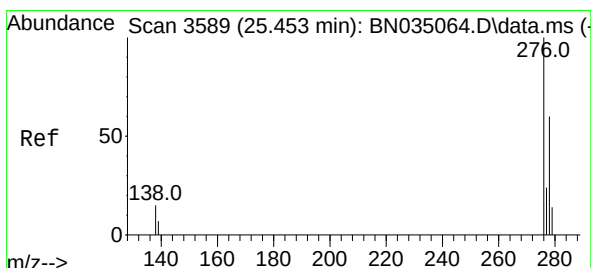
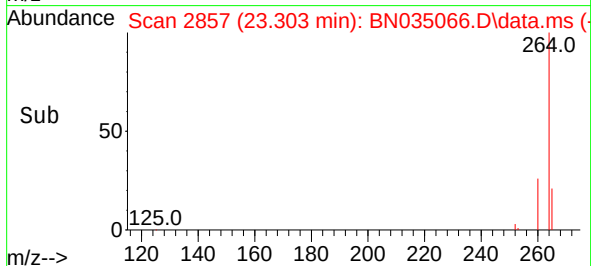
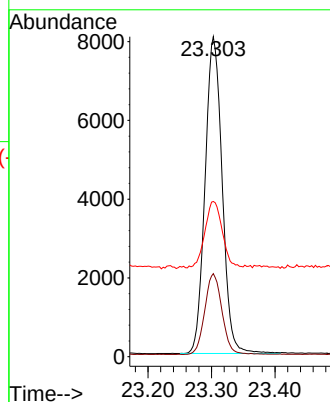
Tgt Ion:264 Resp: 15060

Ion Ratio Lower Upper

264 100

260 26.0 20.9 31.3

265 48.5 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.663 ng

RT: 25.452 min Scan# 3592

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

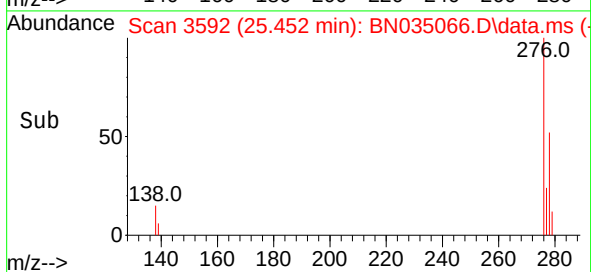
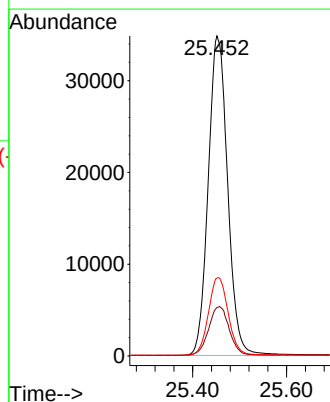
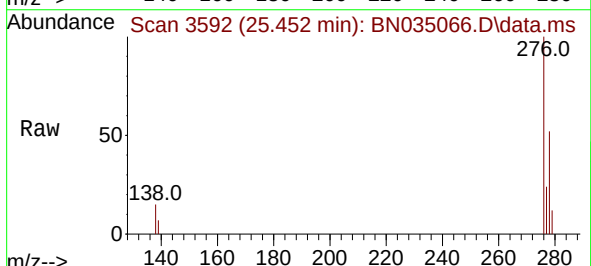
Tgt Ion:276 Resp: 99936

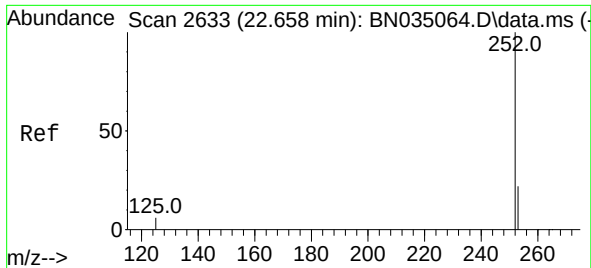
Ion Ratio Lower Upper

276 100

138 16.1 13.0 19.4

277 24.8 19.8 29.6

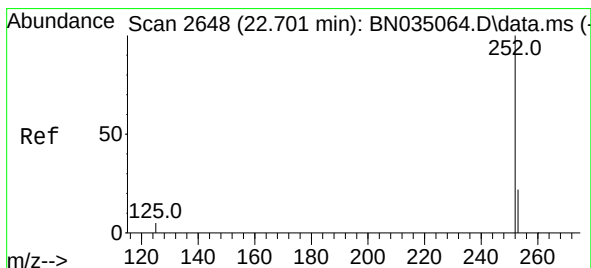
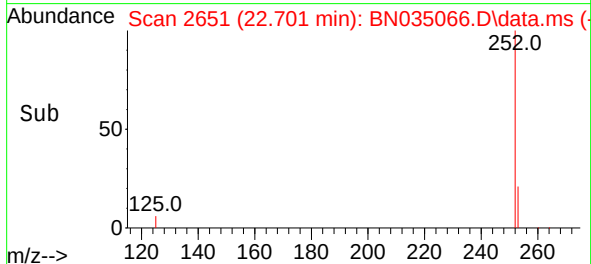
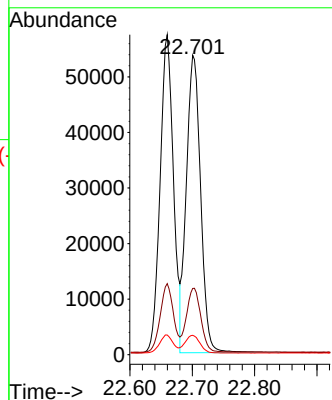
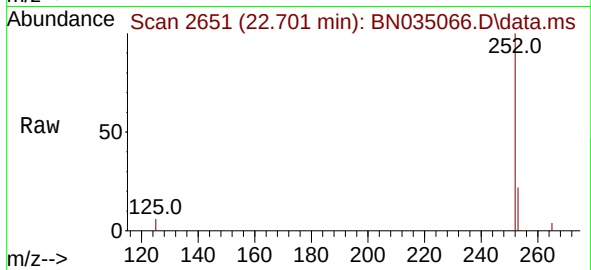




#37
Benzo(b)fluoranthene
Concen: 1.677 ng
RT: 22.701 min Scan# 2651
Delta R.T. 0.043 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

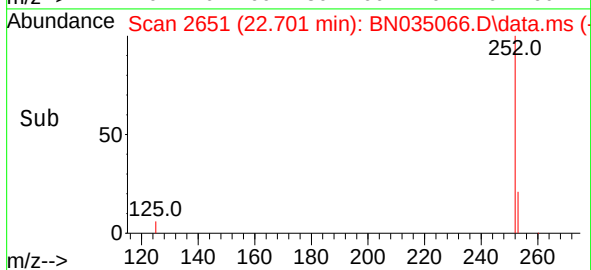
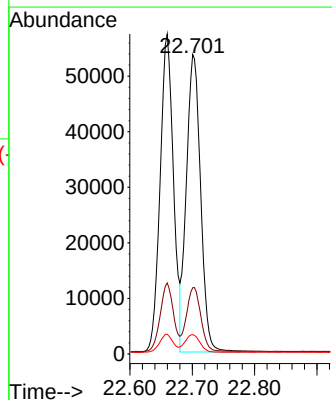
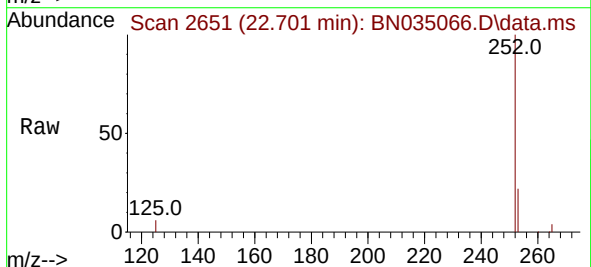
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

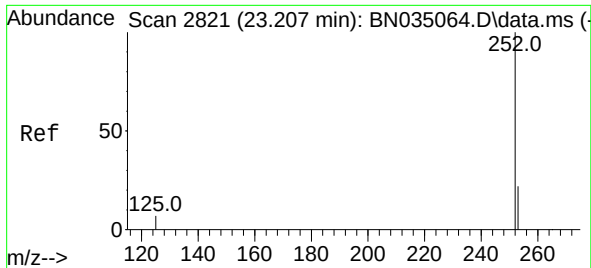
Tgt Ion:252 Resp: 84960
Ion Ratio Lower Upper
252 100
253 22.1 19.3 28.9
125 6.5 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 1.676 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

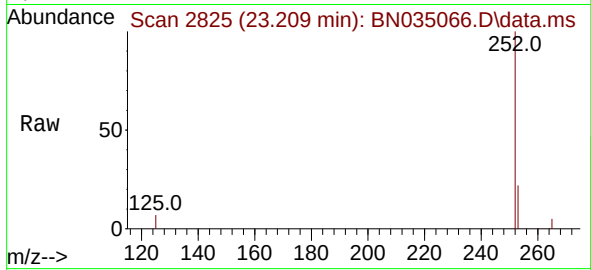
Tgt Ion:252 Resp: 84960
Ion Ratio Lower Upper
252 100
253 22.1 19.5 29.3
125 6.5 6.5 9.7#



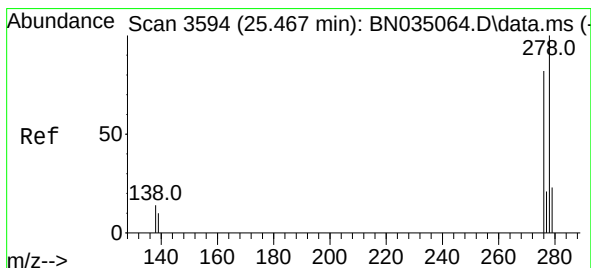
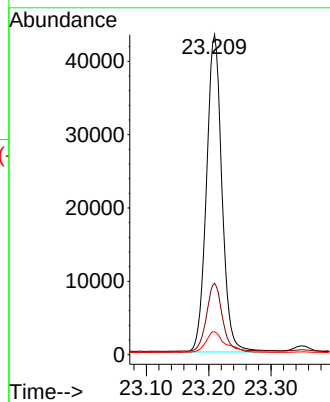
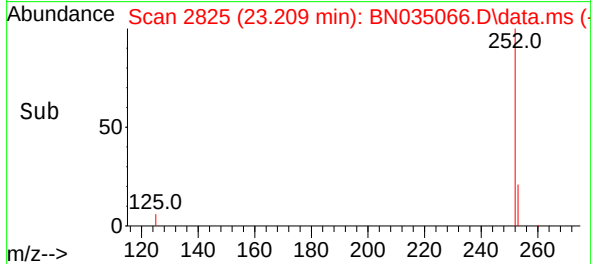


#39
Benzo(a)pyrene
Concen: 1.675 ng
RT: 23.209 min Scan# 21
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

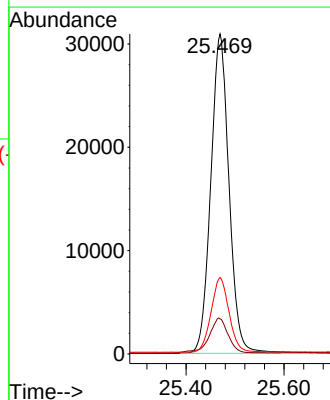
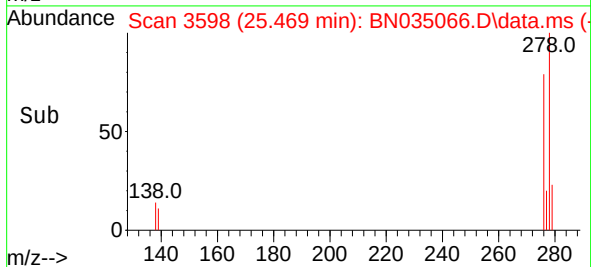
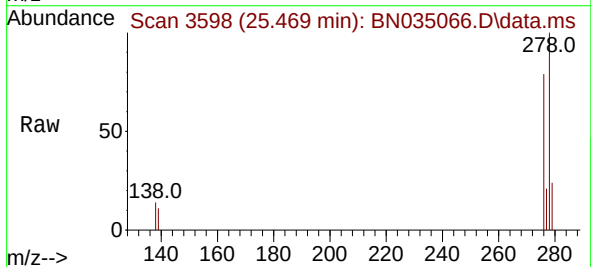


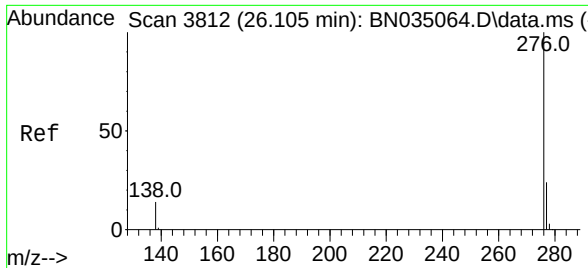
Tgt Ion:252 Resp: 74668
Ion Ratio Lower Upper
252 100
253 22.3 20.1 30.1
125 7.1 7.5 11.3#



#40
Dibenzo(a,h)anthracene
Concen: 1.673 ng
RT: 25.469 min Scan# 3598
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:278 Resp: 79628
Ion Ratio Lower Upper
278 100
139 10.9 9.3 13.9
279 23.9 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 1.649 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035066.D

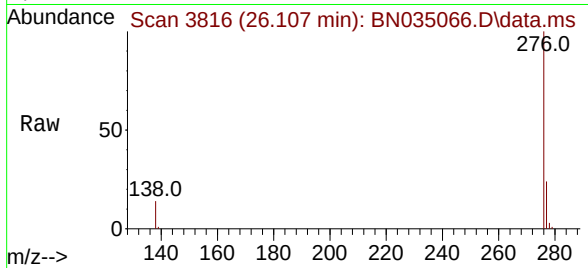
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Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



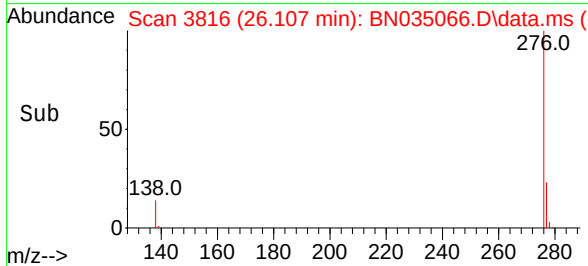
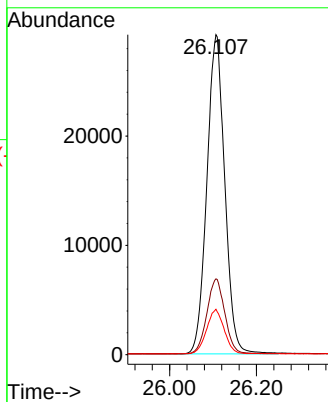
Tgt Ion:276 Resp: 83498

Ion Ratio Lower Upper

276 100

277 23.7 19.9 29.9

138 14.2 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035067.D
 Acq On : 13 Nov 2024 15:39
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Nov 13 16:45:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

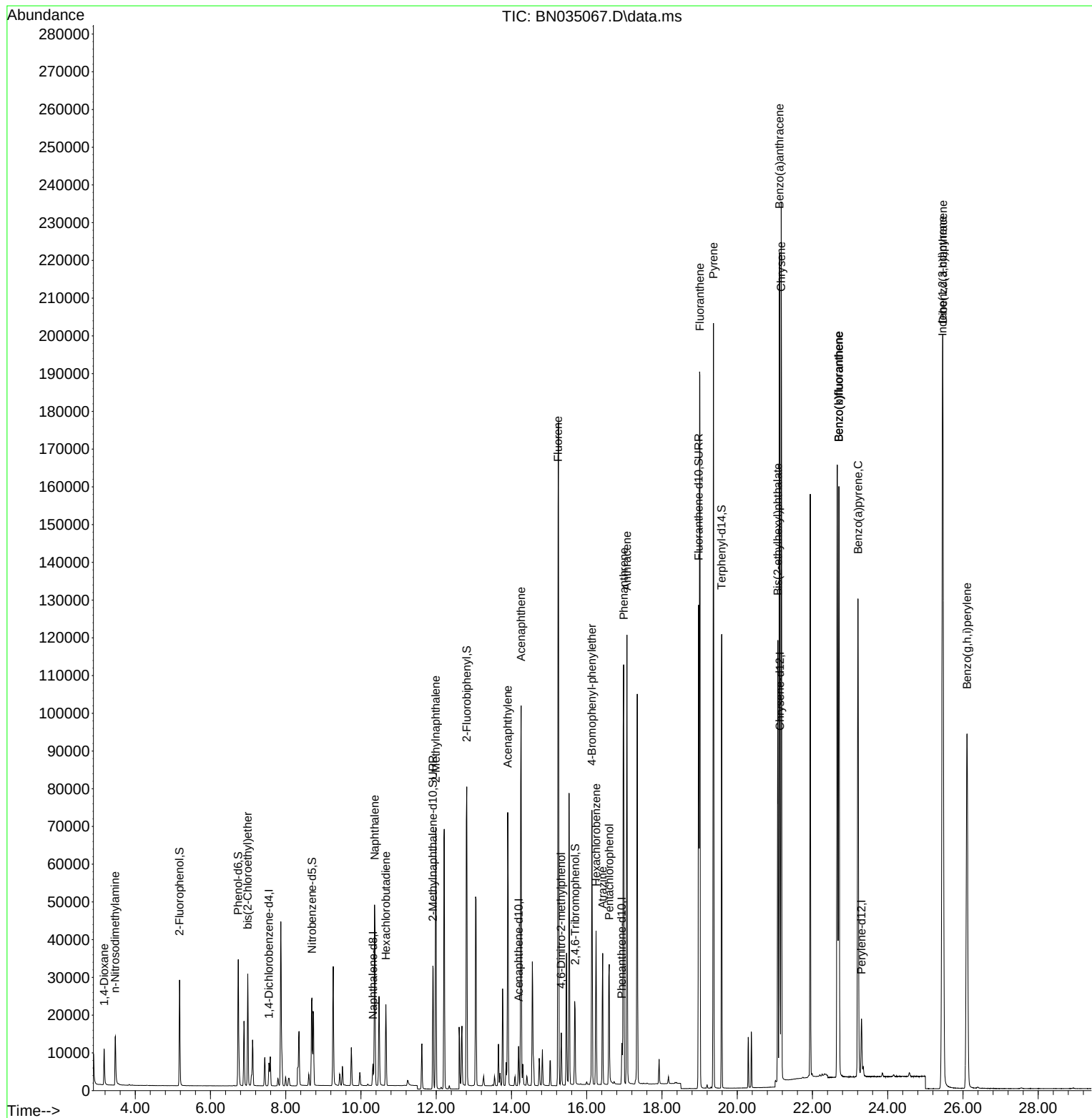
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2920	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	7487	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5593	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	14864	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	17096	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	18582	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	22571	3.045	ng	0.00
5) Phenol-d6	6.737	99	29328	3.155	ng	0.00
8) Nitrobenzene-d5	8.696	82	20578	3.167	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	42128	3.157	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	13778	3.417	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	71543	3.150	ng	0.00
27) Fluoranthene-d10	18.973	212	145321	3.191	ng	0.00
31) Terphenyl-d14	19.587	244	111732	3.115	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	8131	3.066	ng	99
3) n-Nitrosodimethylamine	3.465	42	7509	3.049	ng	# 93
6) bis(2-Chloroethyl)ether	6.990	93	21619	3.099	ng	99
9) Naphthalene	10.362	128	60468	3.093	ng	98
10) Hexachlorobutadiene	10.660	225	17300	3.019	ng	# 99
12) 2-Methylnaphthalene	11.988	142	45806	3.176	ng	98
16) Acenaphthylene	13.901	152	78553	3.286	ng	99
17) Acenaphthene	14.254	154	50542	3.227	ng	98
18) Fluorene	15.238	166	74092	3.215	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	11328	3.661	ng	# 83
21) 4-Bromophenyl-phenylether	16.138	248	30013	3.169	ng	# 85
22) Hexachlorobenzene	16.250	284	30635	3.117	ng	99
23) Atrazine	16.424	200	26567	3.127	ng	# 93
24) Pentachlorophenol	16.597	266	16789	3.656	ng	98
25) Phenanthrene	16.982	178	123000	3.144	ng	99
26) Anthracene	17.069	178	117301	3.265	ng	100
28) Fluoranthene	19.006	202	172759	3.212	ng	100
30) Pyrene	19.368	202	177937	3.125	ng	100
32) Benzo(a)anthracene	21.125	228	185345	3.114	ng	99
33) Chrysene	21.169	228	182053	3.087	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	94826	3.061	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	230419	3.108	ng	100
37) Benzo(b)fluoranthene	22.701	252	196686	3.146	ng	95
38) Benzo(k)fluoranthene	22.701	252	196686	3.144	ng	# 95
39) Benzo(a)pyrene	23.209	252	173547	3.155	ng	# 93
40) Dibenzo(a,h)anthracene	25.466	278	183641	3.127	ng	98
41) Benzo(g,h,i)perylene	26.107	276	192341	3.079	ng	98

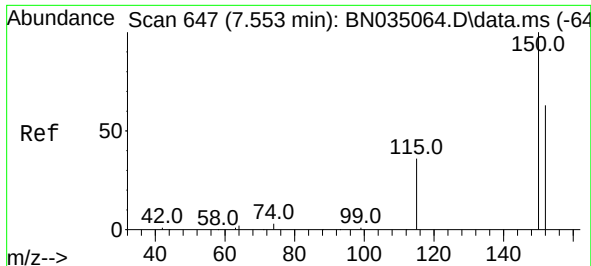
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035067.D
Acq On : 13 Nov 2024 15:39
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

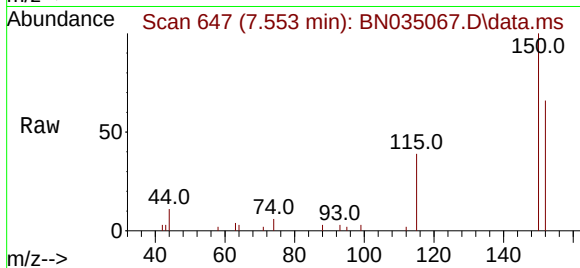
Quant Time: Nov 13 16:45:11 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



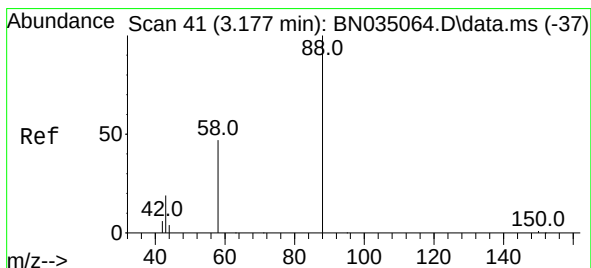
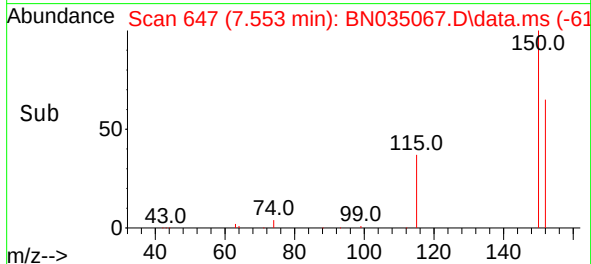
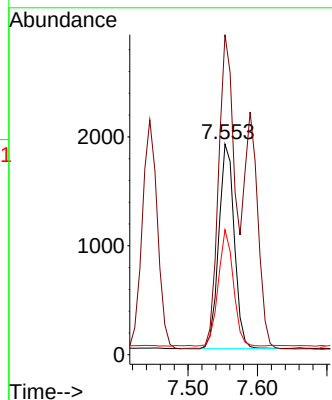


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

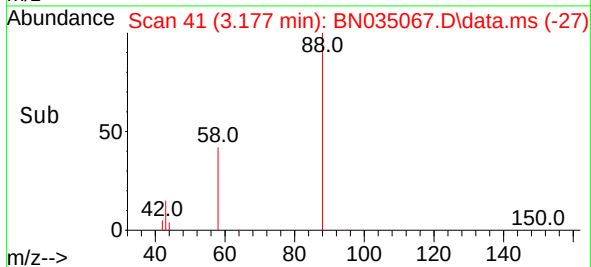
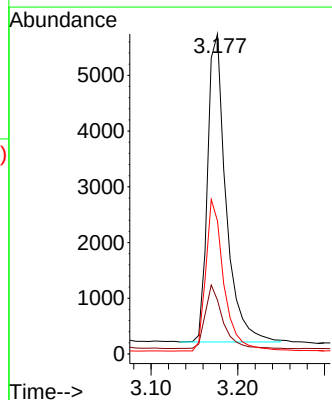
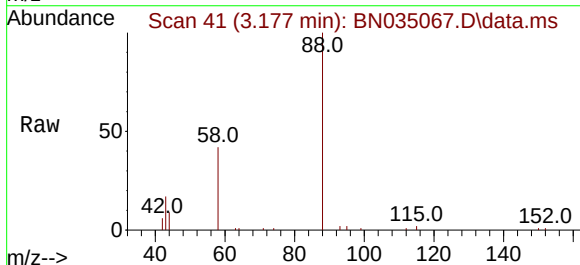


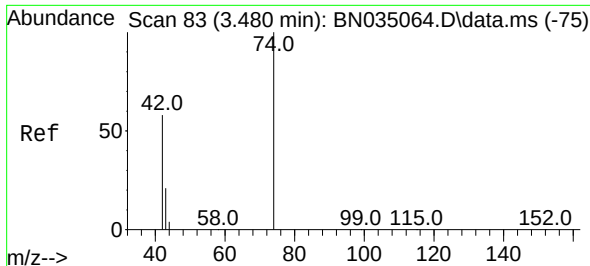
Tgt Ion:152 Resp: 2920
Ion Ratio Lower Upper
152 100
150 152.0 124.5 186.7
115 59.4 47.8 71.6



#2
1,4-Dioxane
Concen: 3.066 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 88 Resp: 8131
Ion Ratio Lower Upper
88 100
43 19.5 16.9 25.3
58 48.4 39.0 58.4

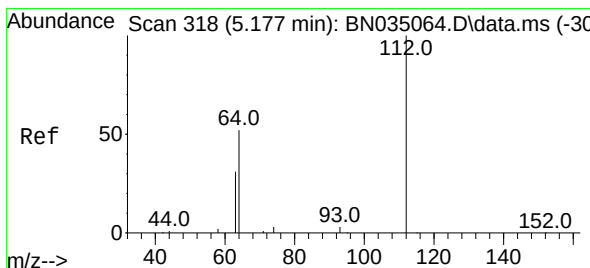
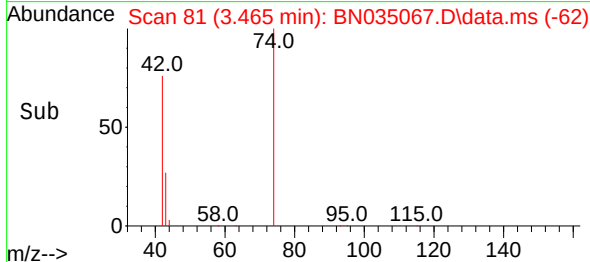
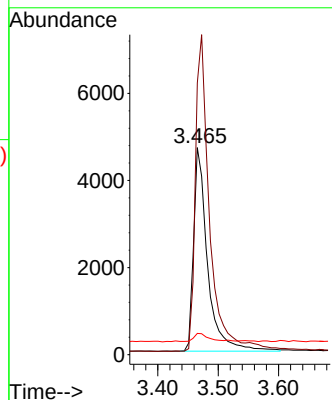
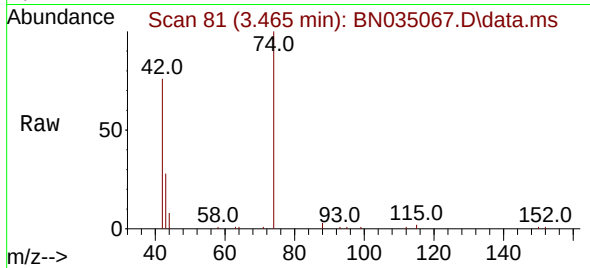




#3
 n-Nitrosodimethylamine
 Concen: 3.049 ng
 RT: 3.465 min Scan# 81
 Delta R.T. -0.015 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

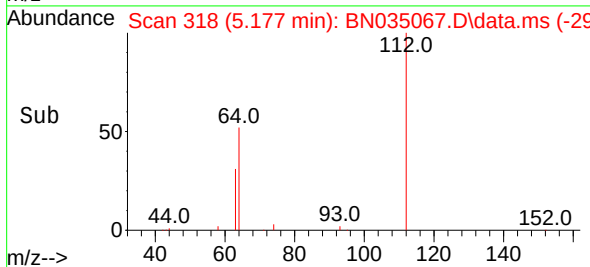
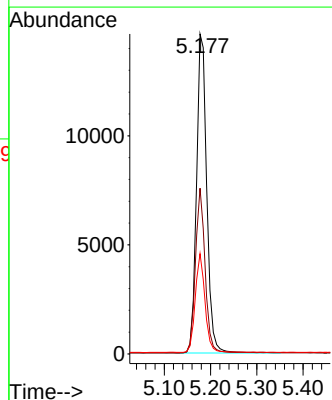
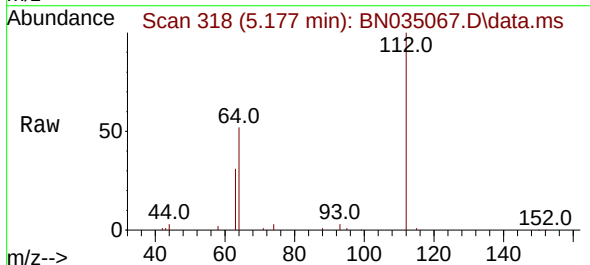
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

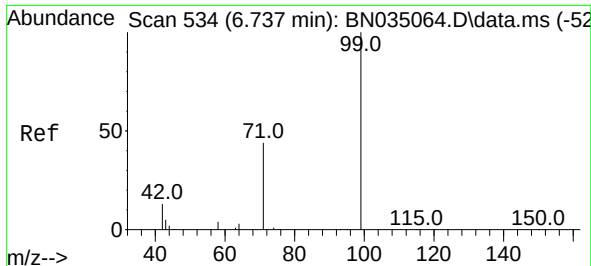
Tgt Ion: 42 Resp: 7509
 Ion Ratio Lower Upper
 42 100
 74 159.4 120.8 181.2
 44 4.7 2.9 4.3#



#4
 2-Fluorophenol
 Concen: 3.045 ng
 RT: 5.177 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion: 112 Resp: 22571
 Ion Ratio Lower Upper
 112 100
 64 48.8 39.7 59.5
 63 29.4 23.0 34.4

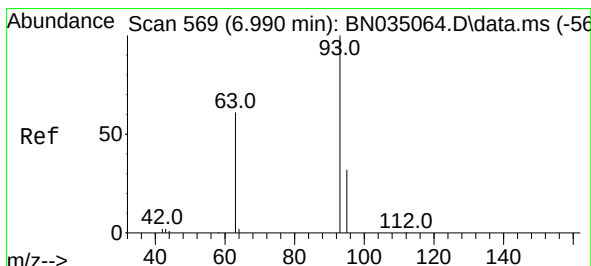
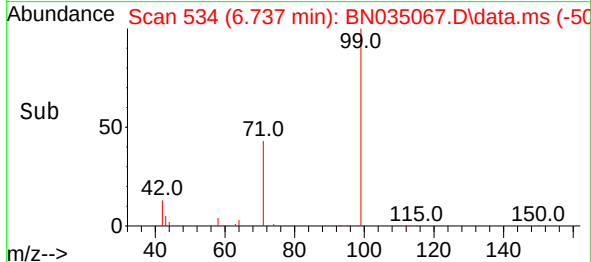
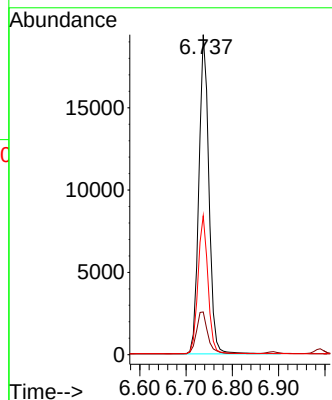
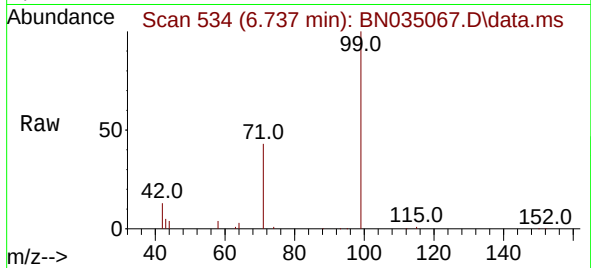




#5
Phenol-d6
Concen: 3.155 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

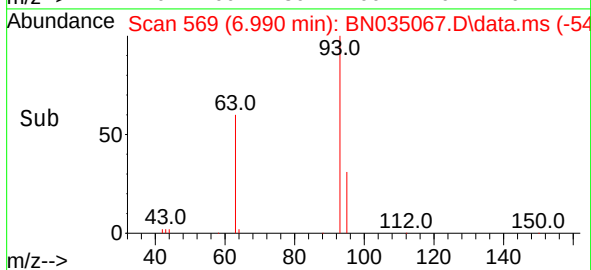
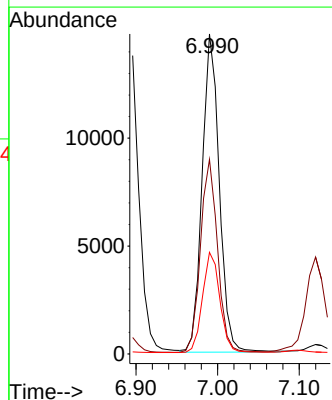
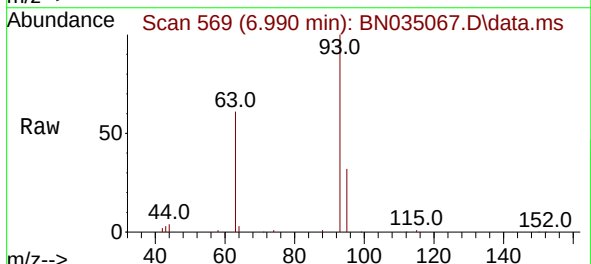
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

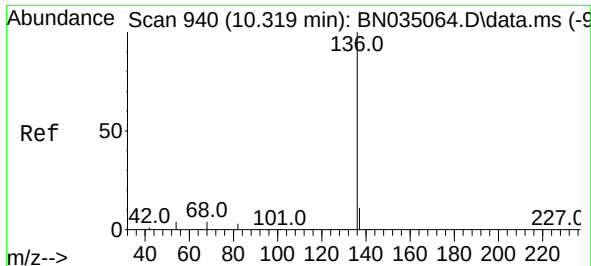
Tgt Ion: 99 Resp: 29328
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 43.0 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 3.099 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 93 Resp: 21619
Ion Ratio Lower Upper
93 100
63 60.2 47.4 71.2
95 31.9 26.2 39.4

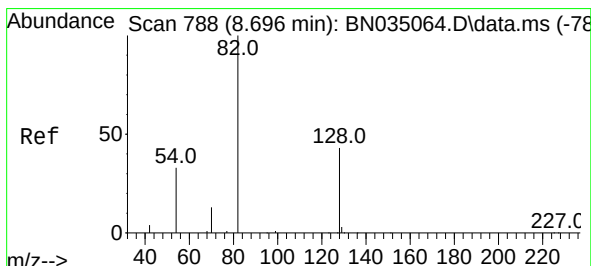
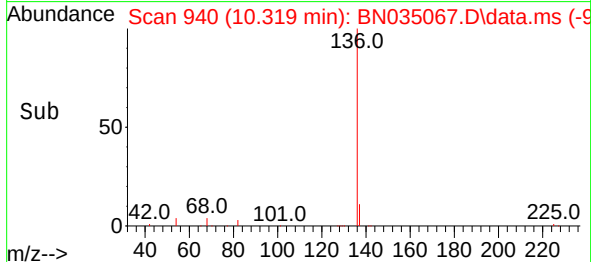
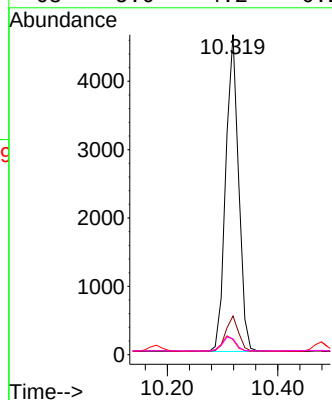
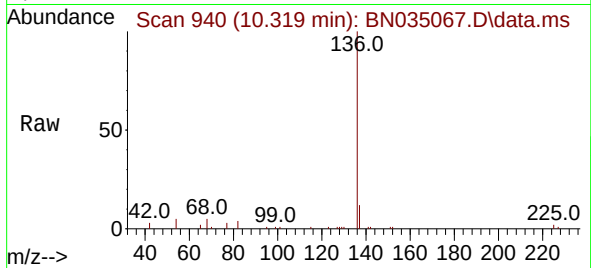




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

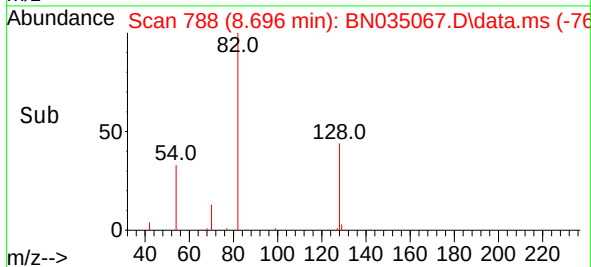
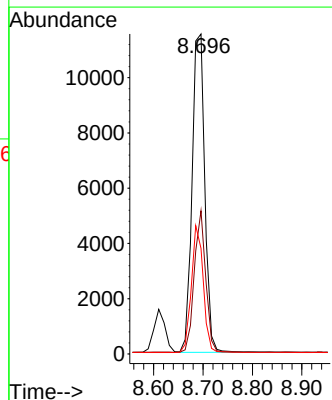
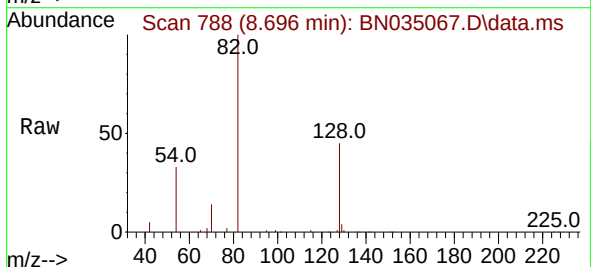
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

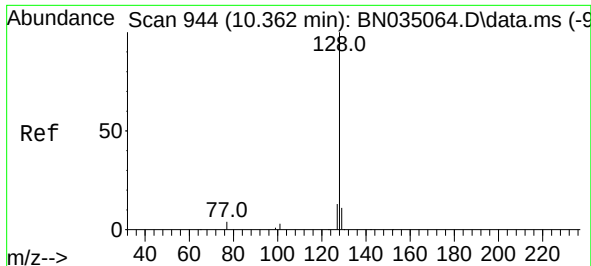
Tgt Ion:136	Resp:	7487
Ion	Ratio	Lower Upper
136	100	
137	12.1	9.8 14.8
54	4.7	4.0 6.0
68	5.0	4.2 6.2



#8
Nitrobenzene-d5
Concen: 3.167 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 82	Resp:	20578
Ion	Ratio	Lower Upper
82	100	
128	44.7	36.5 54.7
54	33.0	28.7 43.1

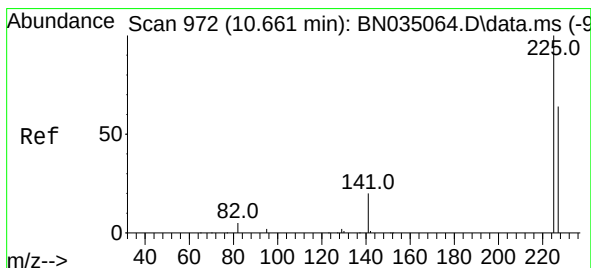
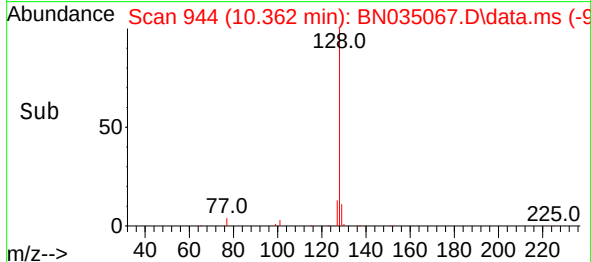
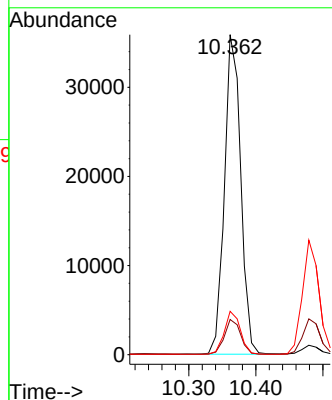
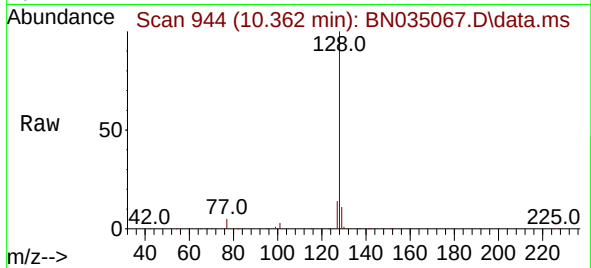




#9
Naphthalene
Concen: 3.093 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

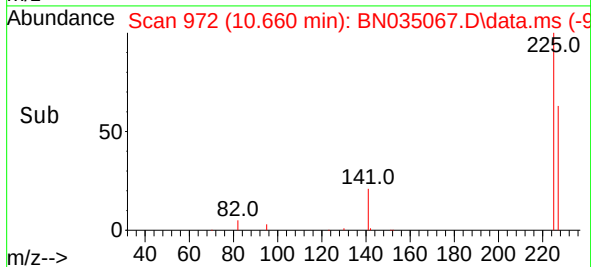
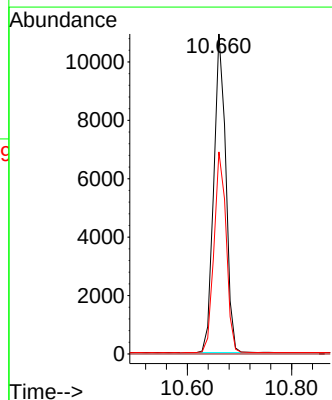
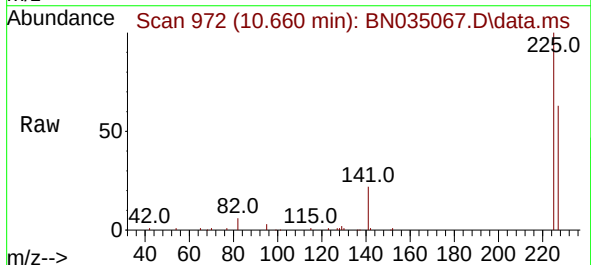
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

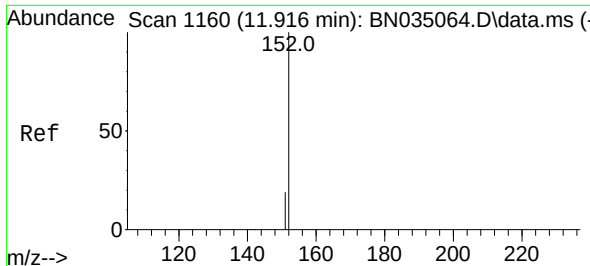
Tgt Ion:128 Resp: 60468
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.6 11.6 17.4



#10
Hexachlorobutadiene
Concen: 3.019 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:225 Resp: 17300
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.5 77.3





#11

2-Methylnaphthalene-d10

Concen: 3.157 ng

RT: 11.912 min Scan# 1159

Delta R.T. -0.004 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

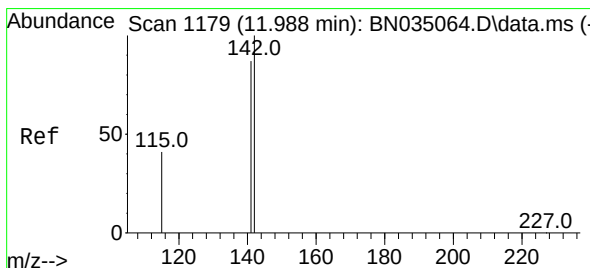
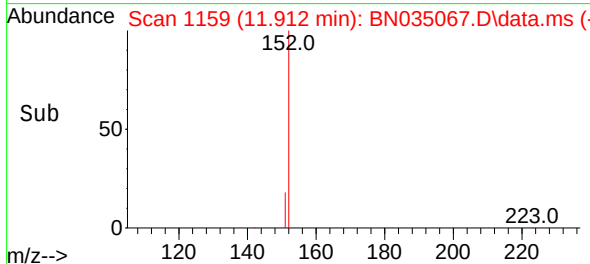
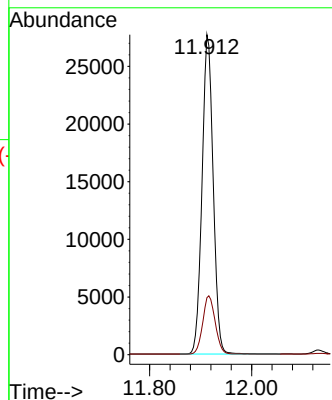
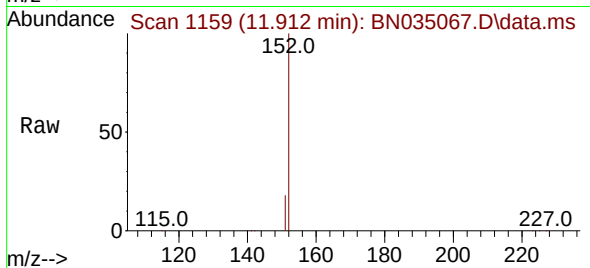
SSTDICC3.2

Tgt Ion:152 Resp: 42128

Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.4



#12

2-Methylnaphthalene

Concen: 3.176 ng

RT: 11.988 min Scan# 1179

Delta R.T. -0.000 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

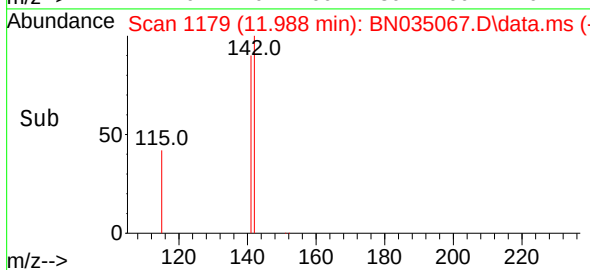
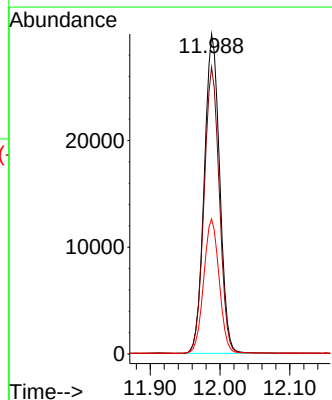
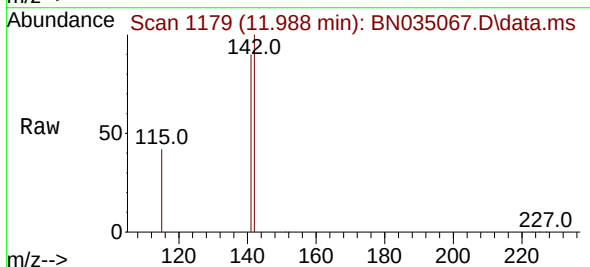
Tgt Ion:142 Resp: 45806

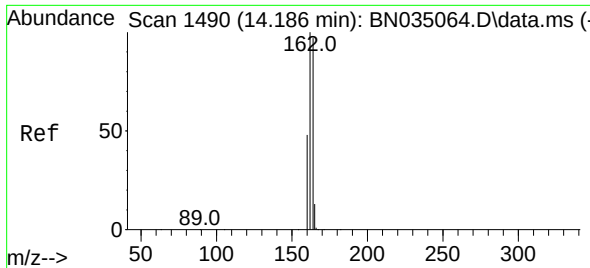
Ion Ratio Lower Upper

142 100

141 89.6 70.1 105.1

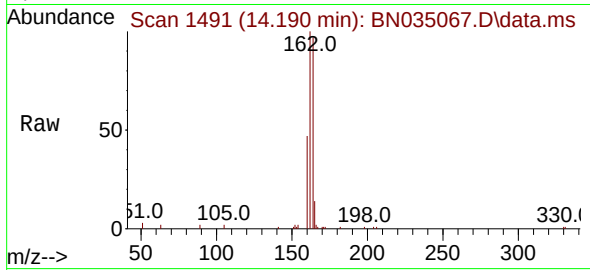
115 42.2 34.4 51.6



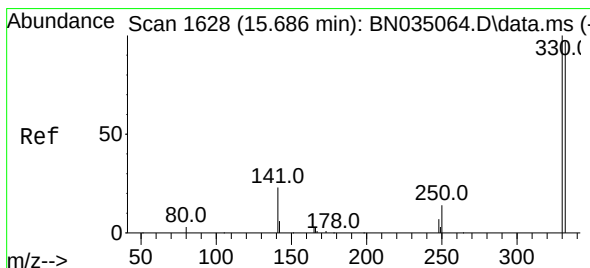
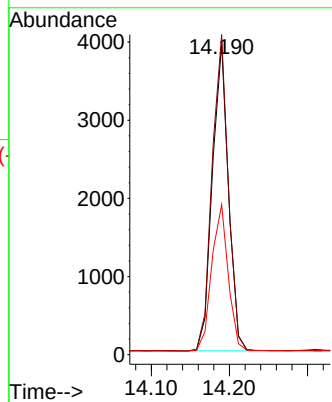
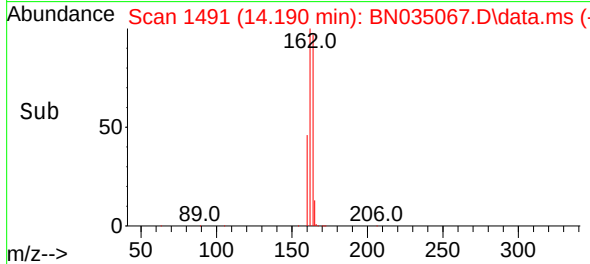


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

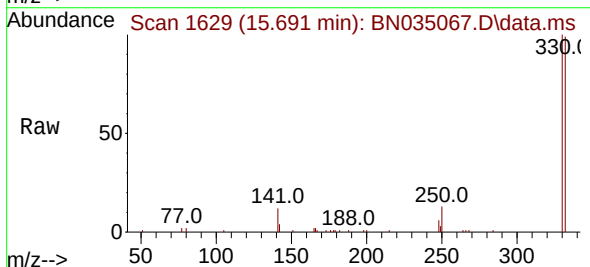
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



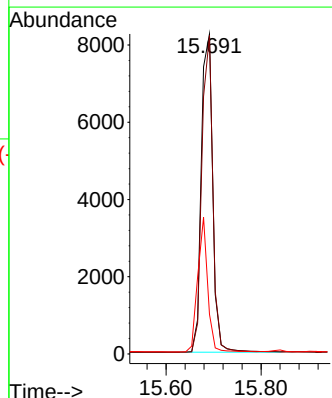
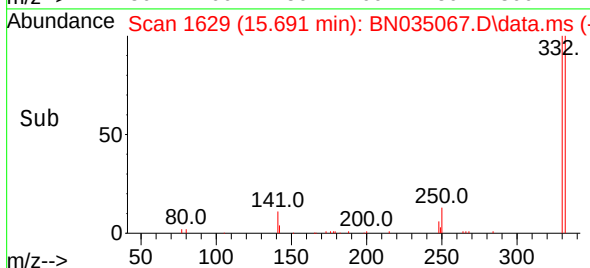
Tgt Ion:164 Resp: 5593
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.2 40.2 60.4

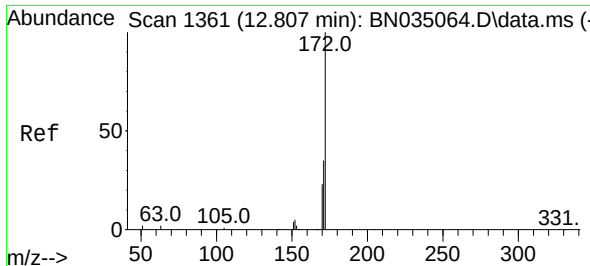


#14
2,4,6-Tribromophenol
Concen: 3.417 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39



Tgt Ion:330 Resp: 13778
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 36.6 29.6 44.4





#15

2-Fluorobiphenyl

Concen: 3.150 ng

RT: 12.811 min Scan# 1362

Delta R.T. 0.004 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

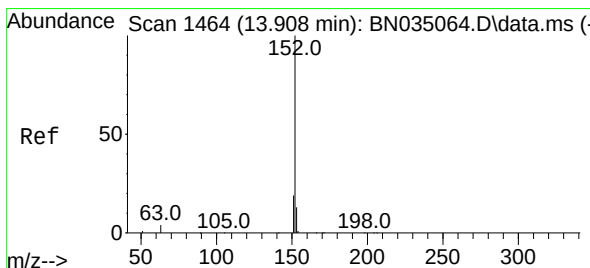
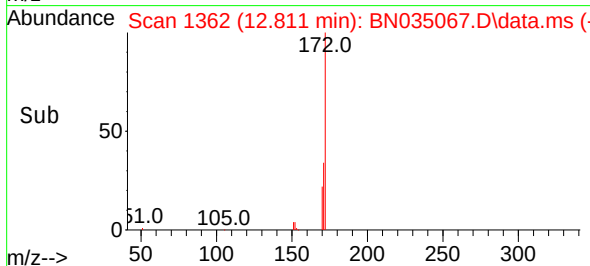
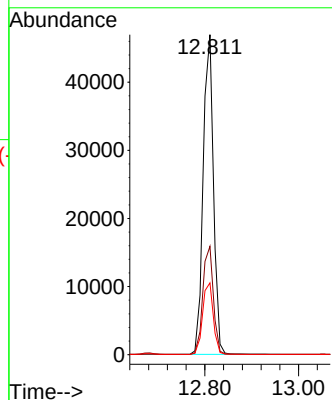
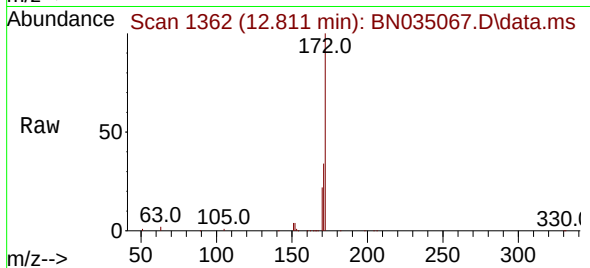
Tgt Ion:172 Resp: 71543

Ion Ratio Lower Upper

172 100

171 33.9 28.2 42.4

170 22.5 19.0 28.6



#16

Acenaphthylene

Concen: 3.286 ng

RT: 13.901 min Scan# 1464

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

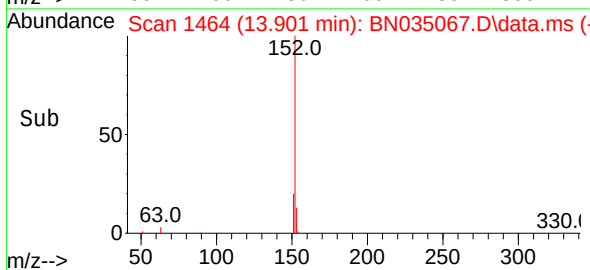
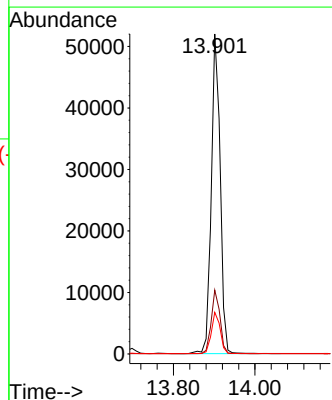
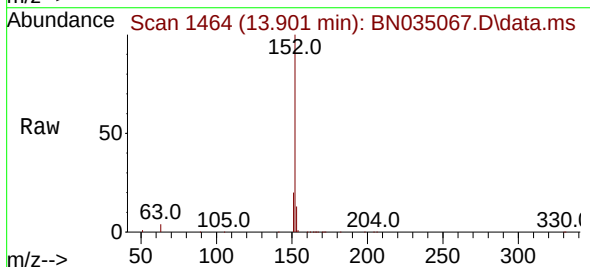
Tgt Ion:152 Resp: 78553

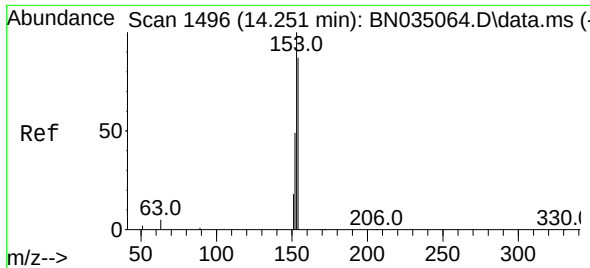
Ion Ratio Lower Upper

152 100

151 19.5 15.8 23.8

153 13.0 10.2 15.4

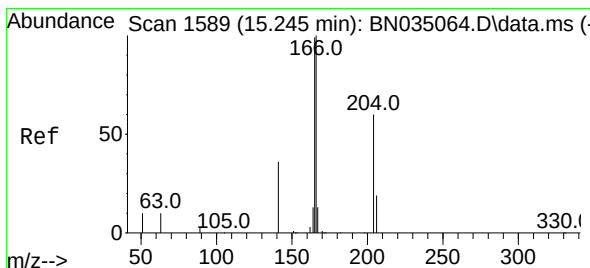
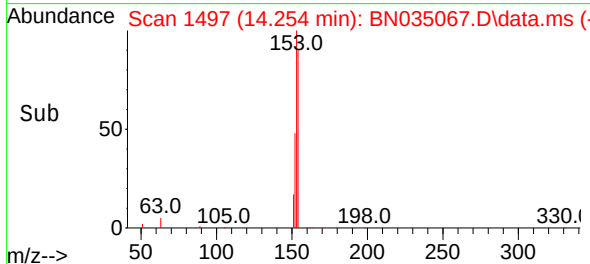
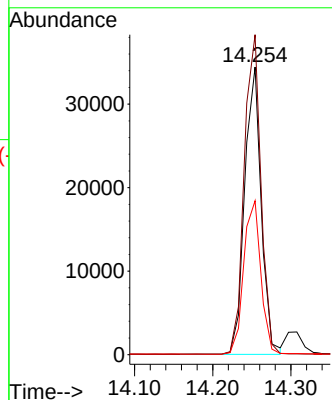
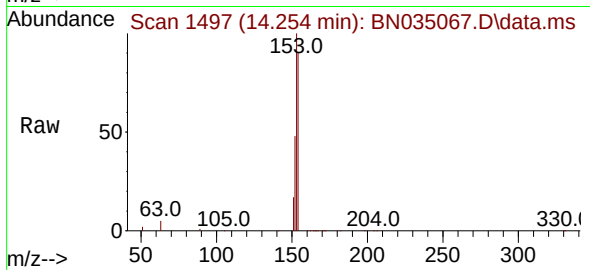




#17
Acenaphthene
Concen: 3.227 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

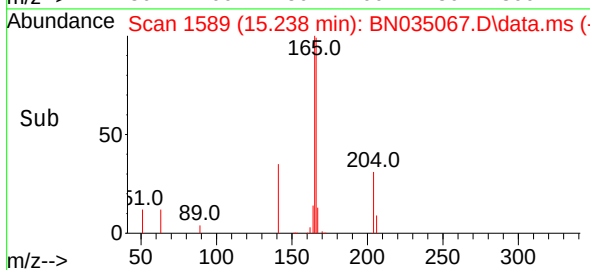
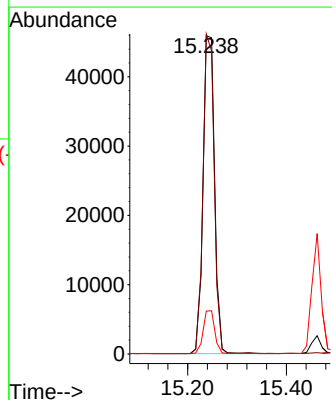
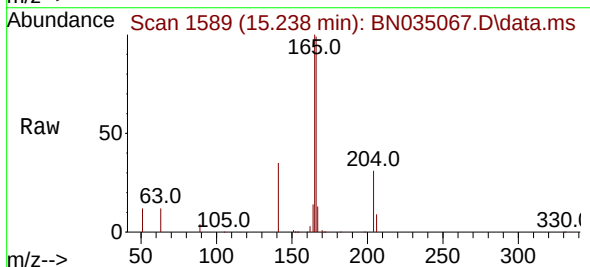
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

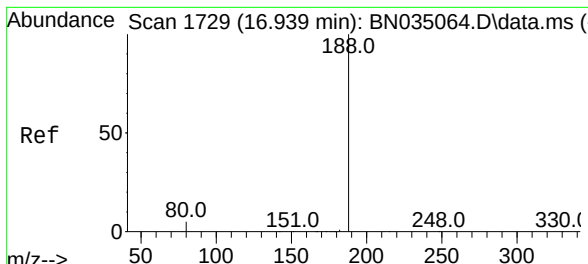
Tgt Ion:154 Resp: 50542
Ion Ratio Lower Upper
154 100
153 112.9 91.6 137.4
152 55.6 45.8 68.6



#18
Fluorene
Concen: 3.215 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:166 Resp: 74092
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 13.5 10.6 16.0

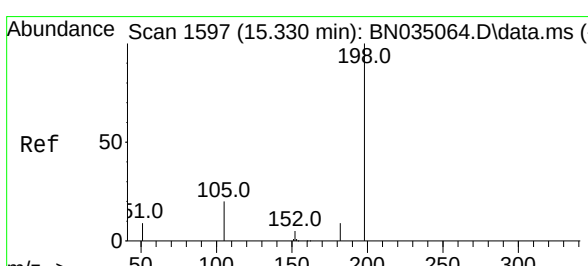
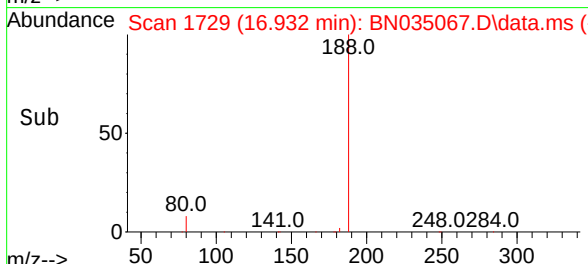
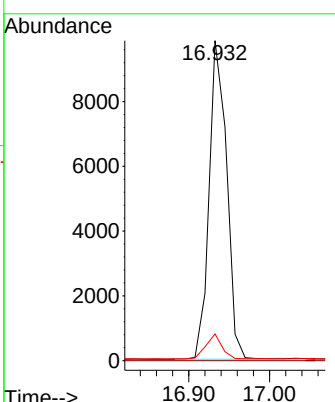
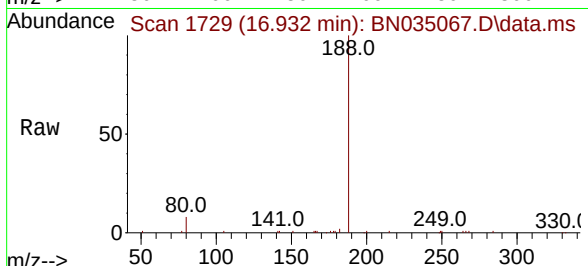




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.932 min Scan# 11
 Delta R.T. -0.007 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

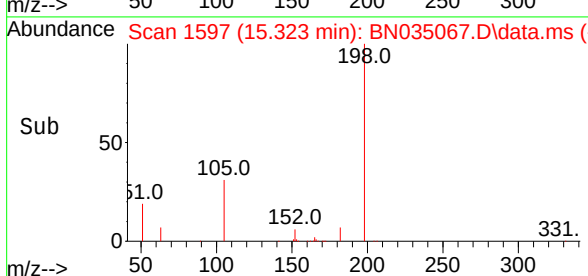
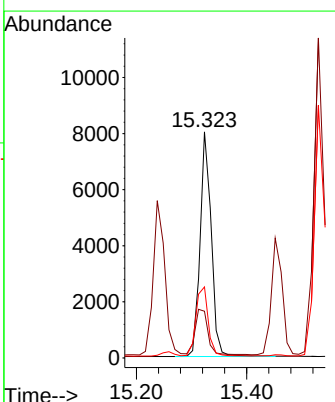
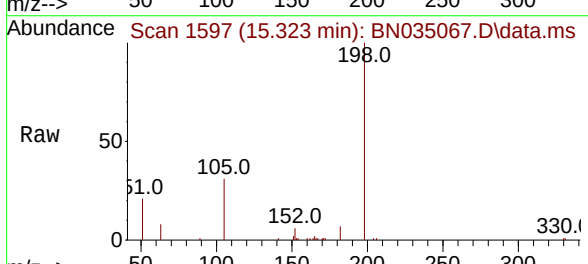
Instrument : BNA_N
 ClientSampleId : SSTDICC3.2

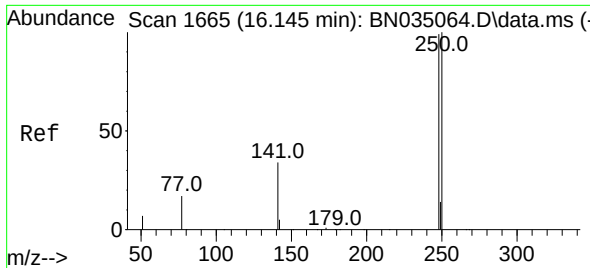
Tgt Ion:188	Resp:	14864
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.3	6.5



#20
 4,6-Dinitro-2-methylphenol
 Concen: 3.661 ng
 RT: 15.323 min Scan# 1597
 Delta R.T. -0.007 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:198	Resp:	11328
Ion Ratio	Lower	Upper
198	100	
51	20.6	29.9
105	31.4	44.9

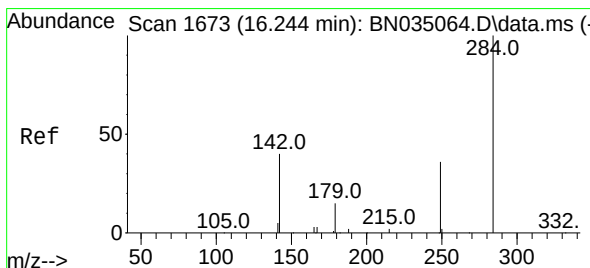
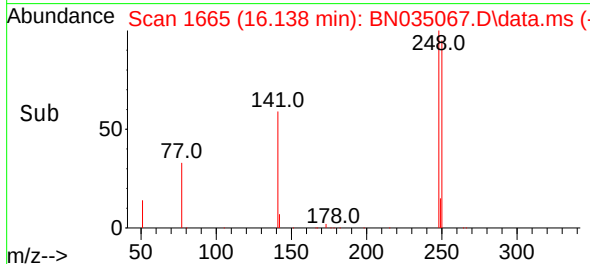
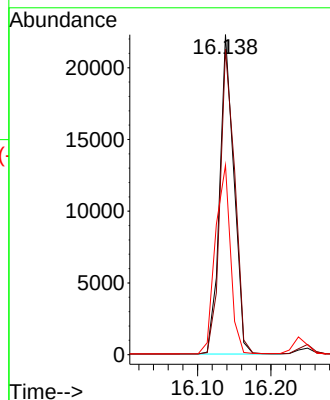
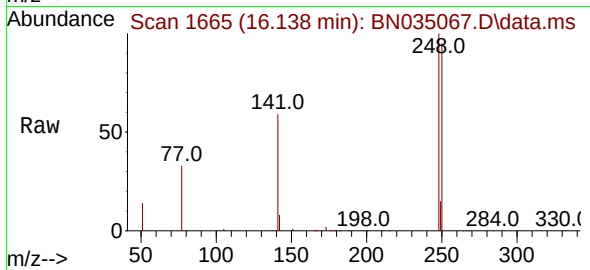




#21
4-Bromophenyl-phenylether
Concen: 3.169 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

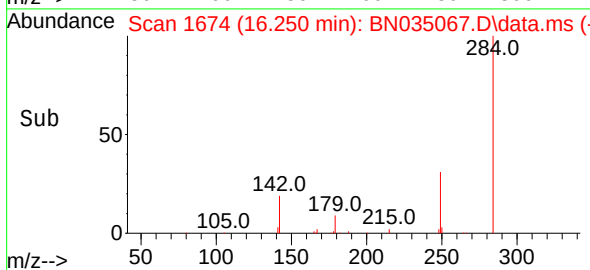
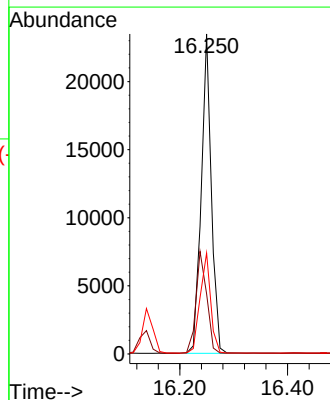
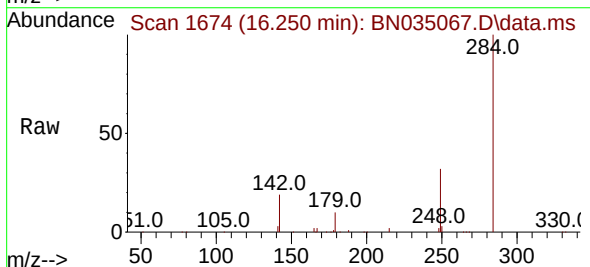
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

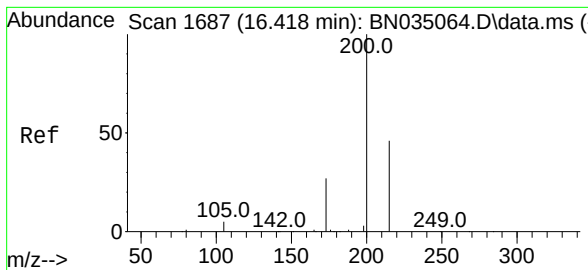
Tgt Ion:248 Resp: 30013
Ion Ratio Lower Upper
248 100
250 95.4 81.2 121.8
141 59.2 29.1 43.7#



#22
Hexachlorobenzene
Concen: 3.117 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:284 Resp: 30635
Ion Ratio Lower Upper
284 100
142 33.9 28.2 42.4
249 32.8 26.2 39.2

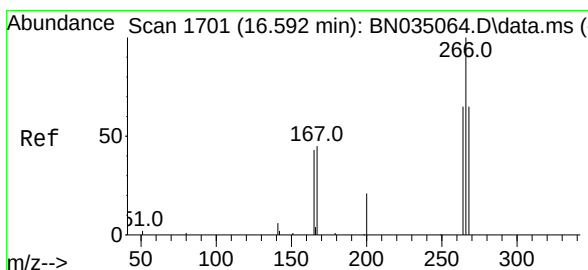
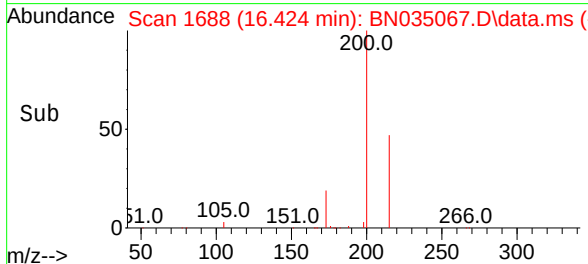
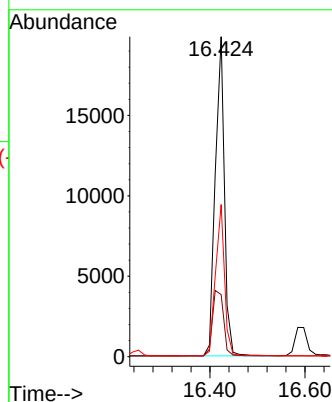
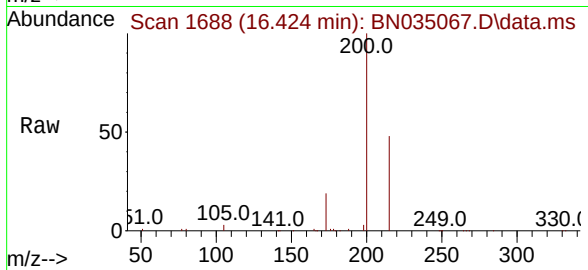




#23
 Atrazine
 Concen: 3.127 ng
 RT: 16.424 min Scan# 1688
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

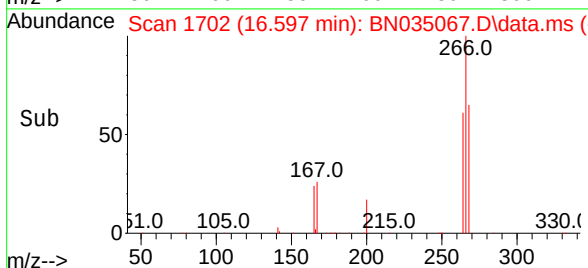
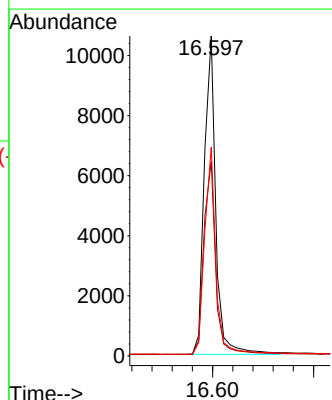
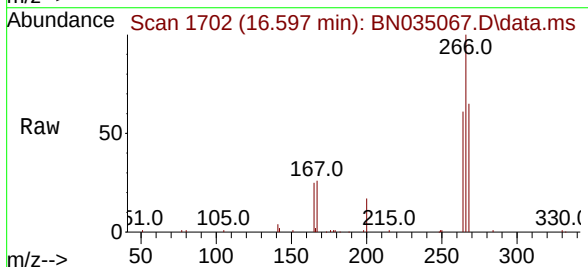
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

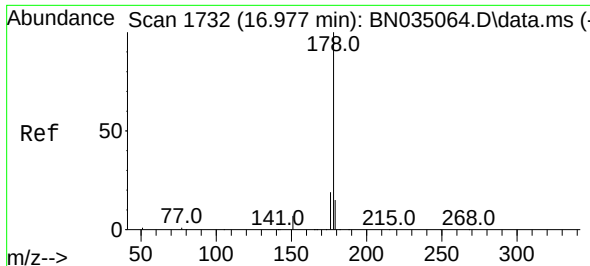
Tgt Ion:	200	Resp:	26567
Ion Ratio	Lower	Upper	
200	100		
173	19.4	22.6	33.8#
215	47.5	37.8	56.6



#24
 Pentachlorophenol
 Concen: 3.656 ng
 RT: 16.597 min Scan# 1702
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:	266	Resp:	16789
Ion Ratio	Lower	Upper	
266	100		
264	62.8	49.4	74.0
268	64.0	52.6	79.0





#25

Phenanthrene

Concen: 3.144 ng

RT: 16.982 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

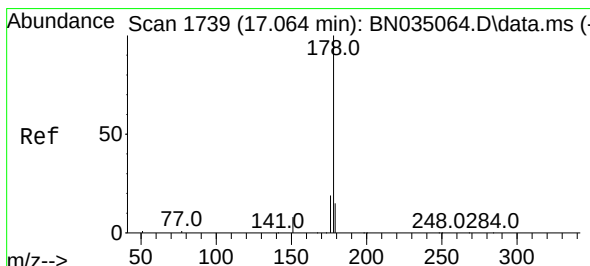
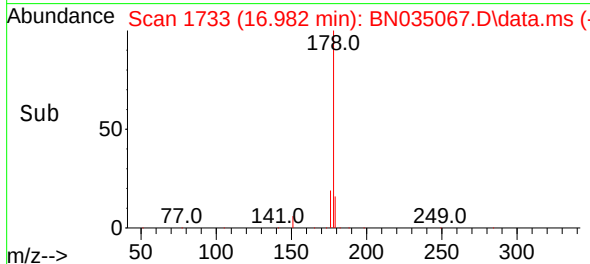
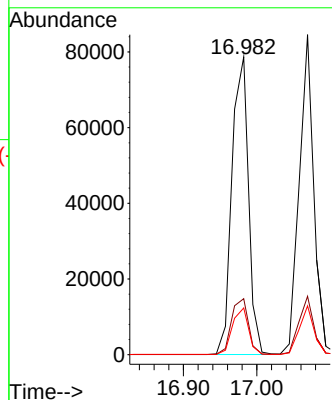
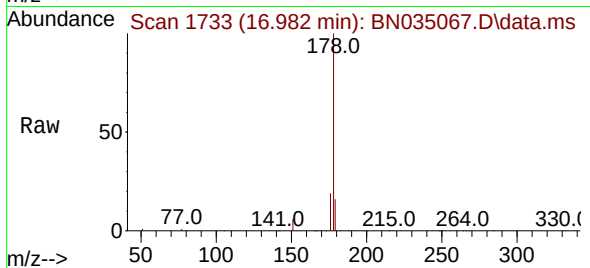
Tgt Ion:178 Resp: 123000

Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 15.3 12.6 18.8



#26

Anthracene

Concen: 3.265 ng

RT: 17.069 min Scan# 1740

Delta R.T. 0.005 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

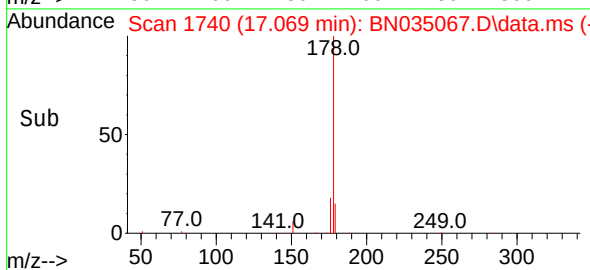
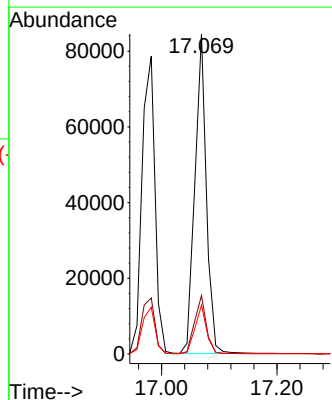
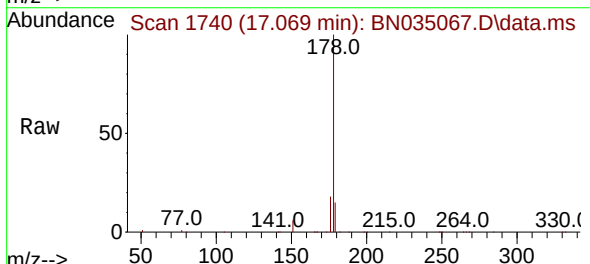
Tgt Ion:178 Resp: 117301

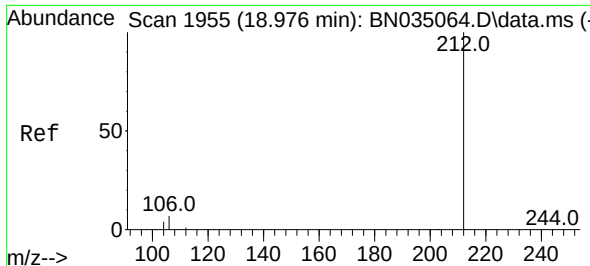
Ion Ratio Lower Upper

178 100

176 18.5 14.6 22.0

179 15.2 12.2 18.2

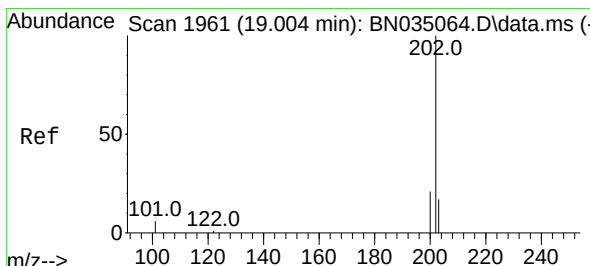
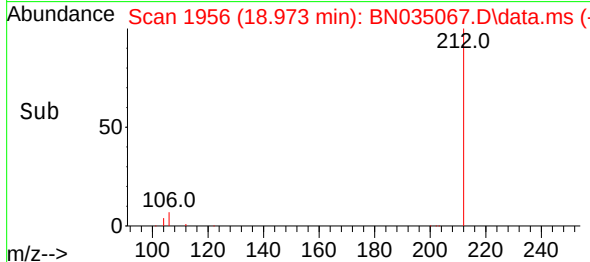
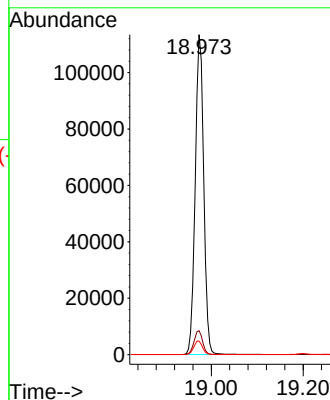
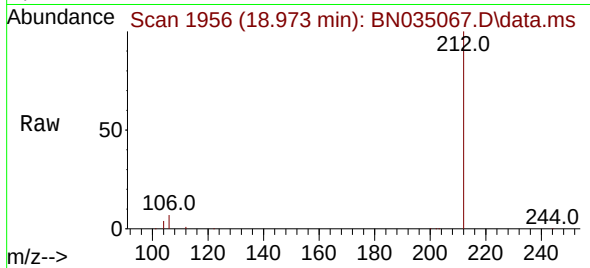




#27
Fluoranthene-d10
Concen: 3.191 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

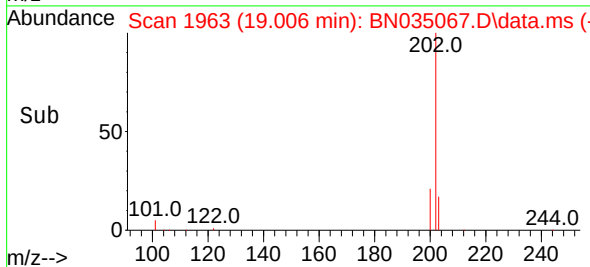
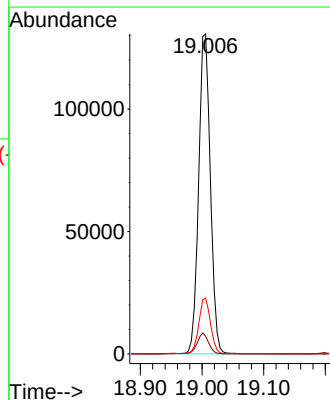
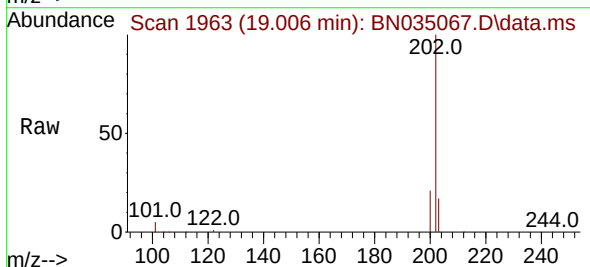
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

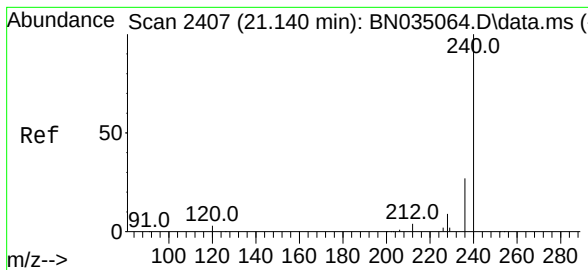
Tgt Ion:212 Resp: 145321
Ion Ratio Lower Upper
212 100
106 7.5 6.0 9.0
104 4.3 3.5 5.3



#28
Fluoranthene
Concen: 3.212 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 172759
Ion Ratio Lower Upper
202 100
101 6.4 5.2 7.8
203 17.3 13.8 20.8

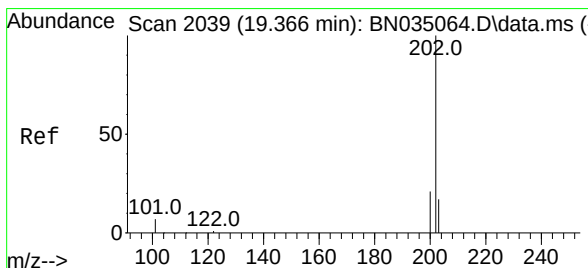
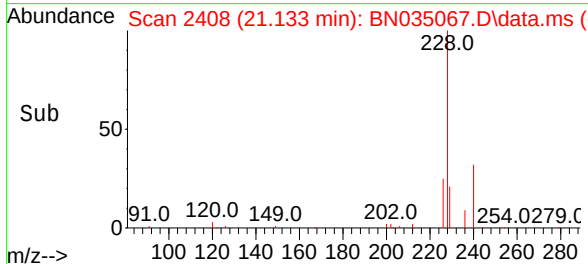
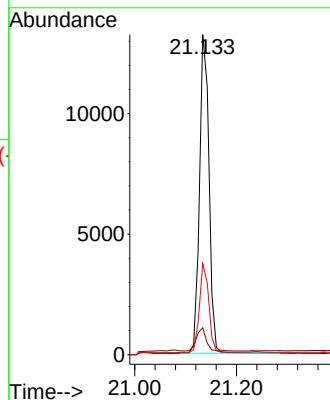
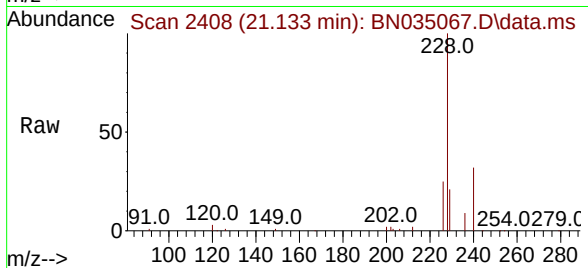




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

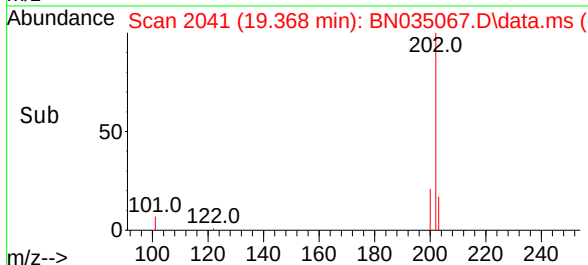
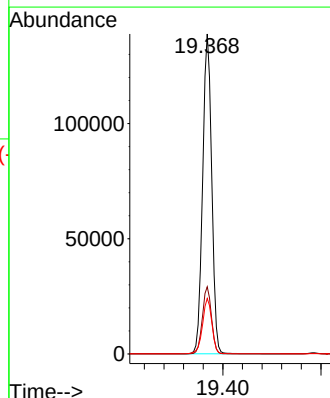
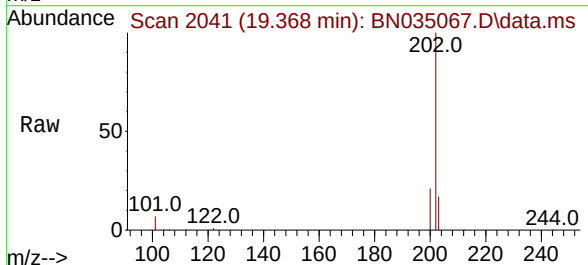
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

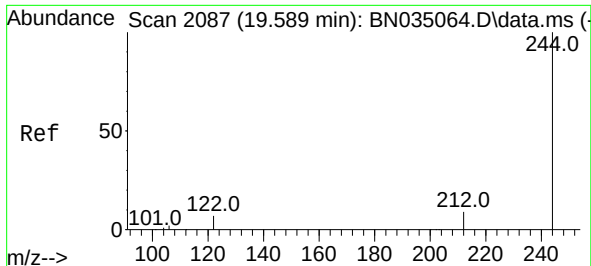
Tgt Ion:	240	Resp:	17096
Ion Ratio	Lower	Upper	
240	100		
120	8.4	3.8	5.6#
236	28.5	22.2	33.2



#30
Pyrene
Concen: 3.125 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:	202	Resp:	177937
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4

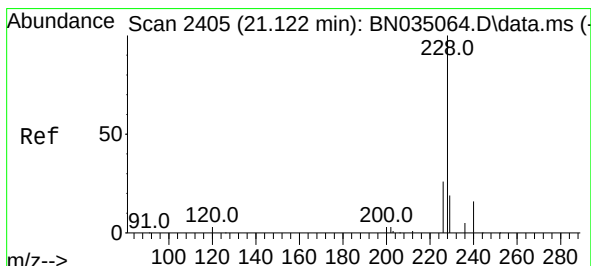
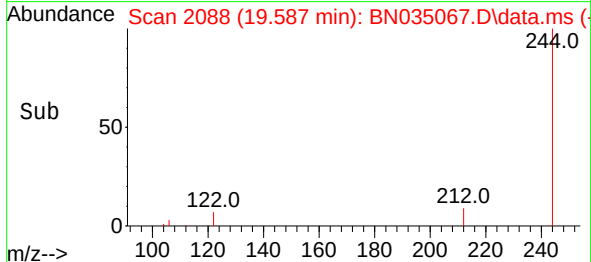
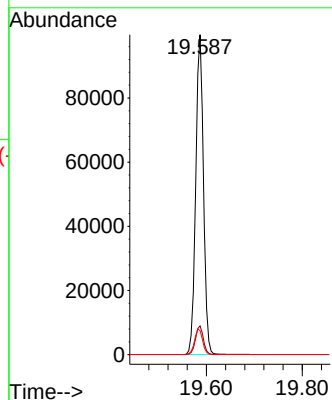
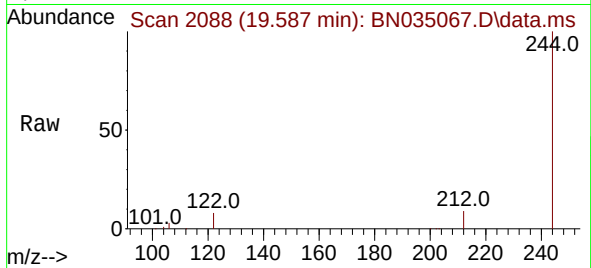




#31
Terphenyl-d14
Concen: 3.115 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

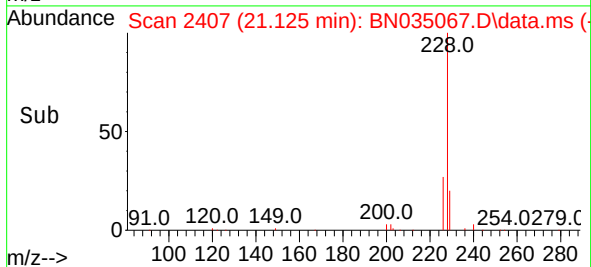
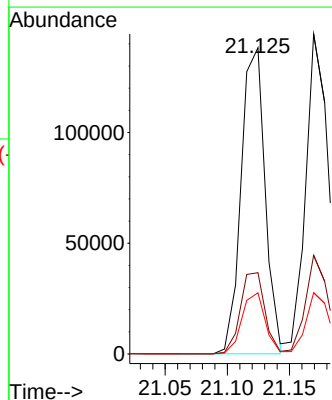
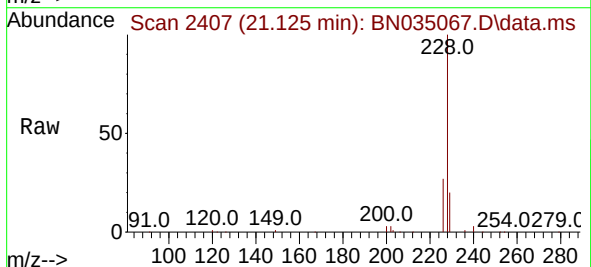
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

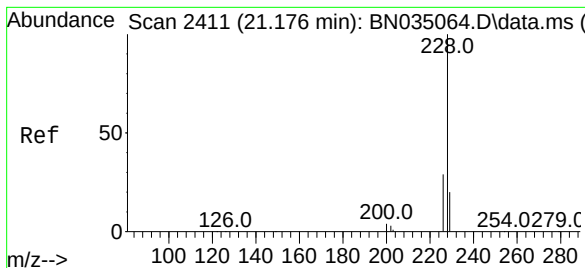
Tgt Ion:244 Resp: 111732
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.6 6.1 9.1



#32
Benzo(a)anthracene
Concen: 3.114 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:228 Resp: 185345
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 20.0 15.7 23.5





#33

Chrysene

Concen: 3.087 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

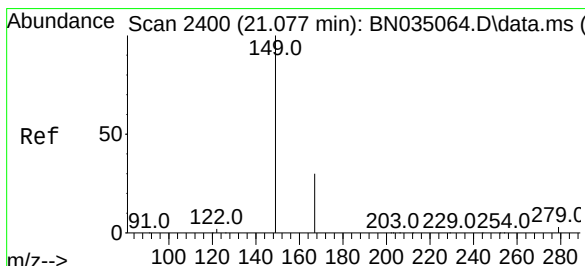
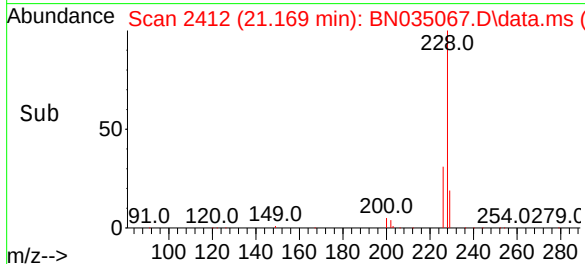
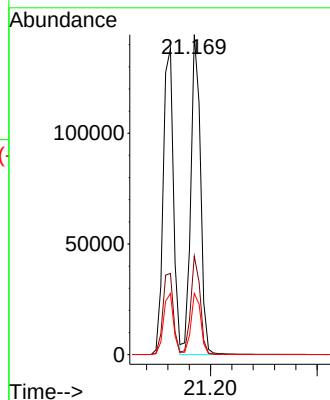
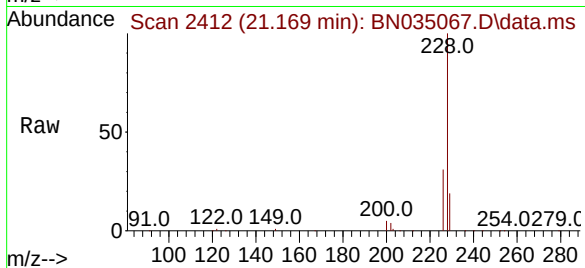
Tgt Ion:228 Resp: 182053

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.061 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

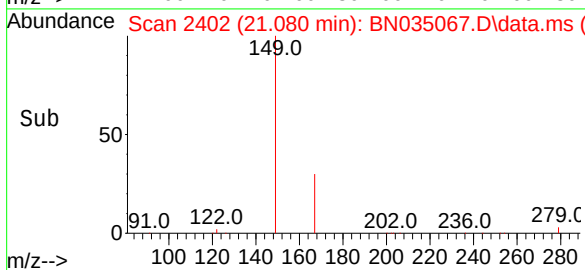
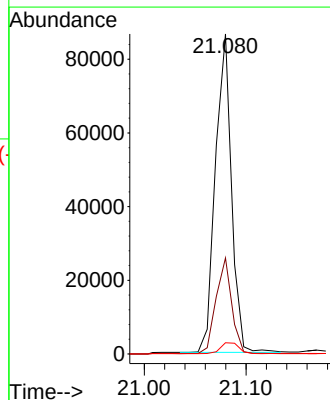
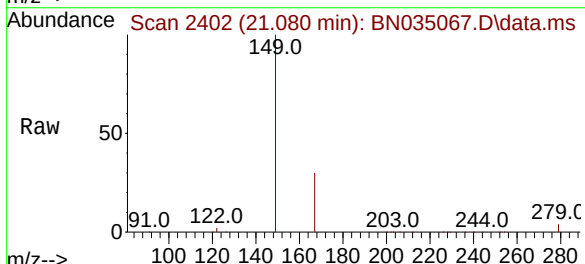
Tgt Ion:149 Resp: 94826

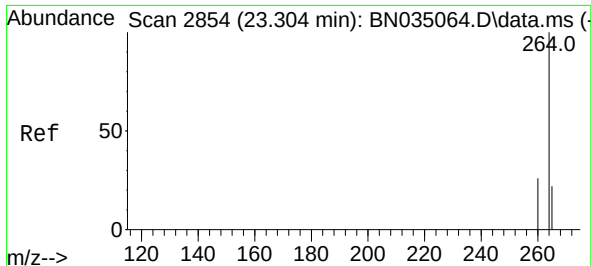
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

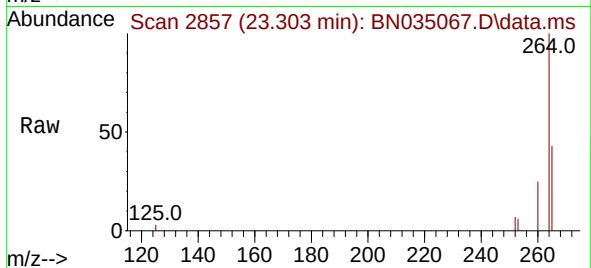
279 3.9 3.2 4.8



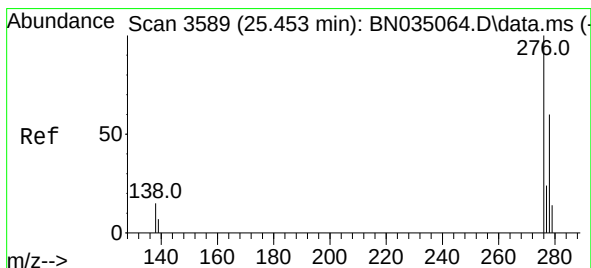
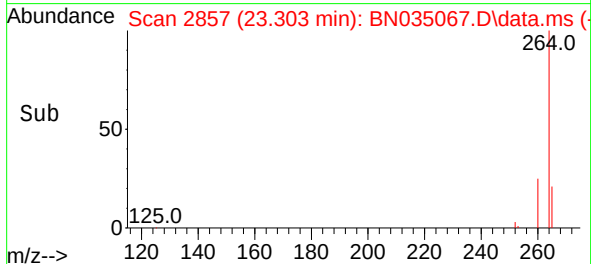
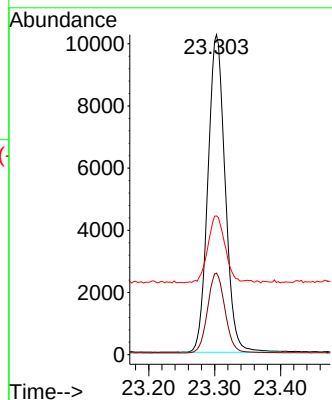


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

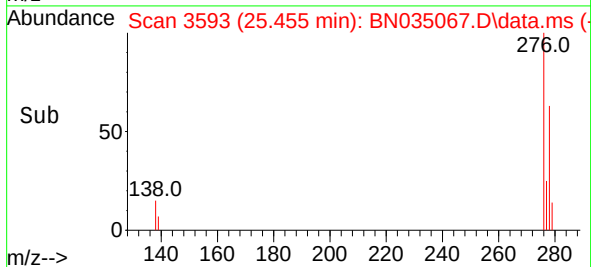
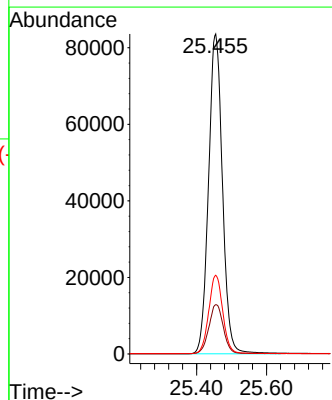
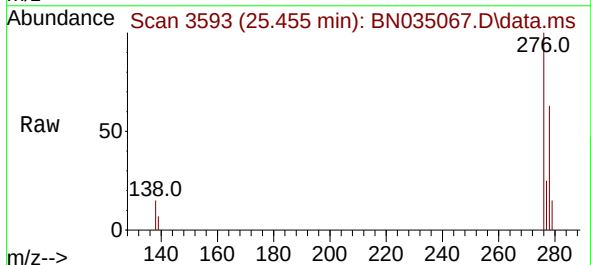


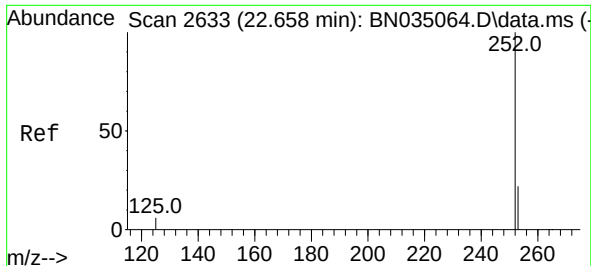
Tgt Ion:264 Resp: 18582
Ion Ratio Lower Upper
264 100
260 25.5 20.9 31.3
265 43.4 35.4 53.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 3.108 ng
RT: 25.455 min Scan# 3593
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:276 Resp: 230419
Ion Ratio Lower Upper
276 100
138 16.0 13.0 19.4
277 24.8 19.8 29.6

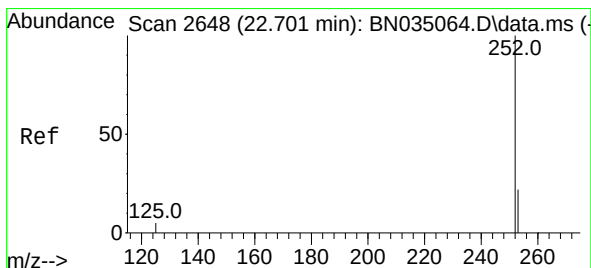
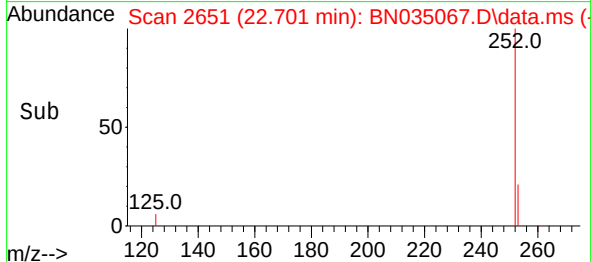
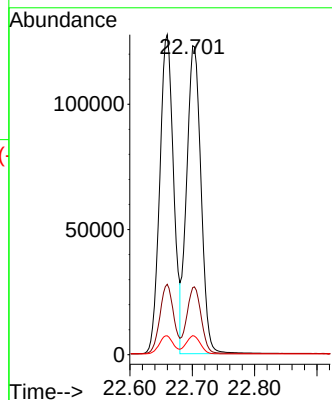
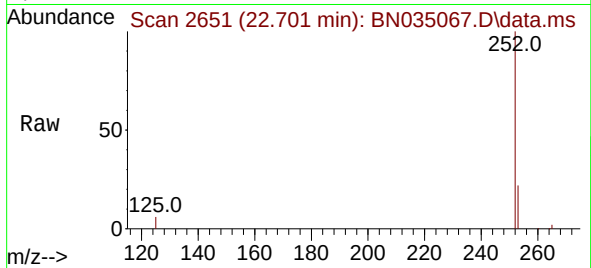




#37
Benzo(b)fluoranthene
Concen: 3.146 ng
RT: 22.701 min Scan# 2651
Delta R.T. 0.043 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

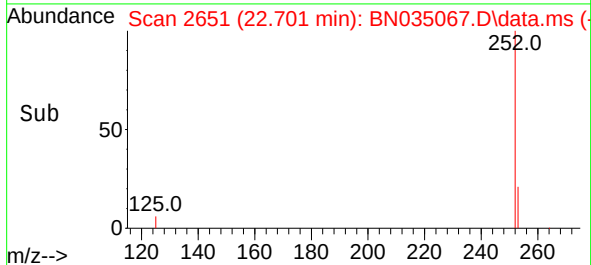
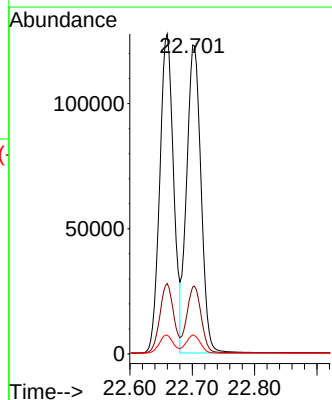
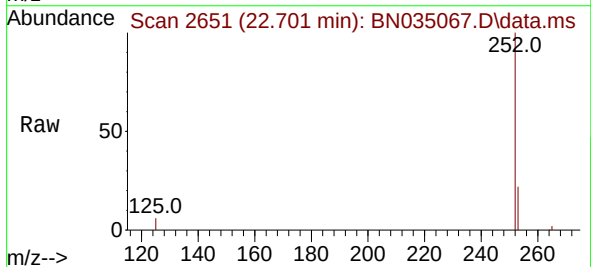
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

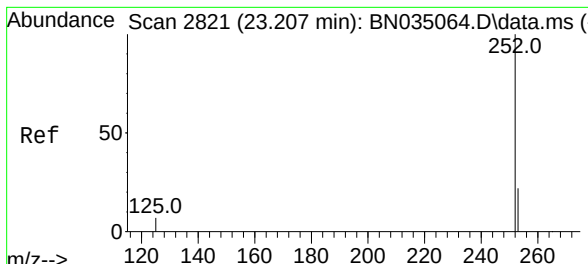
Tgt Ion:252 Resp: 196686
Ion Ratio Lower Upper
252 100
253 21.7 19.3 28.9
125 6.2 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 3.144 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:252 Resp: 196686
Ion Ratio Lower Upper
252 100
253 21.7 19.5 29.3
125 6.2 6.5 9.7#



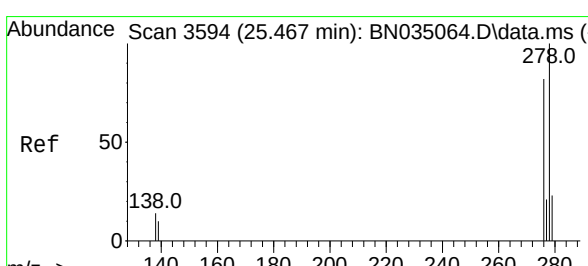
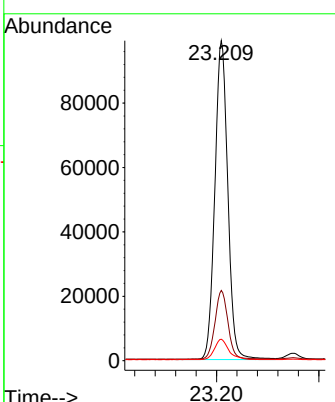
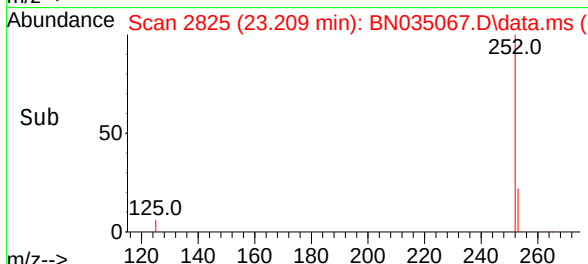
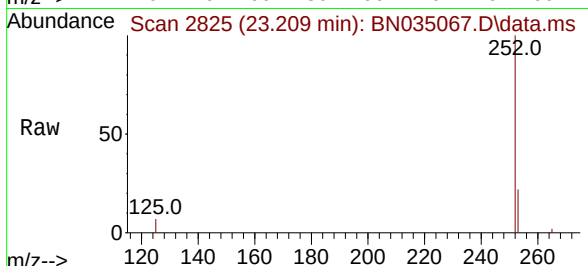


#39
 Benzo(a)pyrene
 Concen: 3.155 ng
 RT: 23.209 min Scan# 21
 Delta R.T. 0.002 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion:252 Resp: 173547

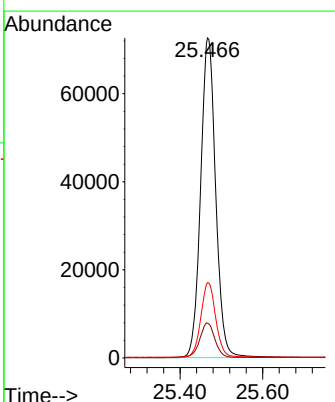
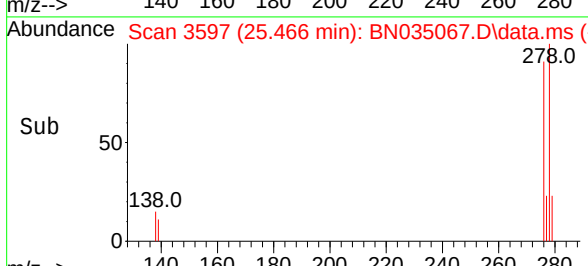
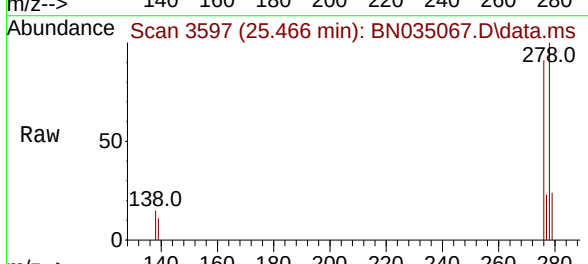
Ion	Ratio	Lower	Upper
252	100		
253	22.0	20.1	30.1
125	6.7	7.5	11.3

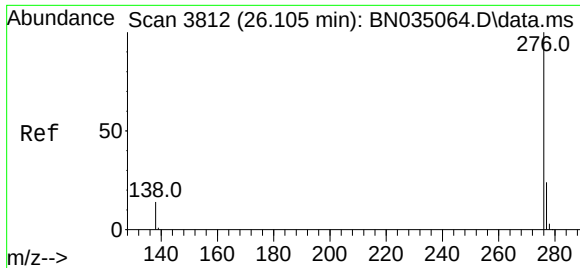


#40
 Dibenzo(a,h)anthracene
 Concen: 3.127 ng
 RT: 25.466 min Scan# 3597
 Delta R.T. -0.001 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:278 Resp: 183641

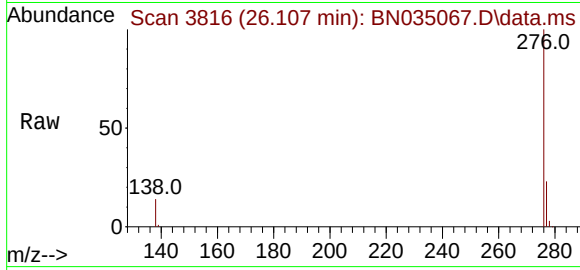
Ion	Ratio	Lower	Upper
278	100		
139	10.9	9.3	13.9
279	23.6	19.7	29.5



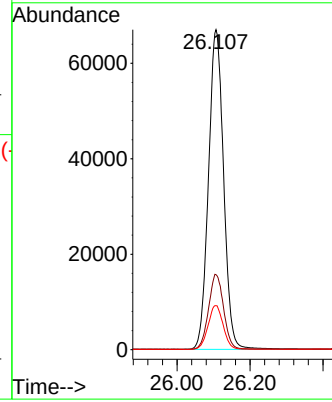
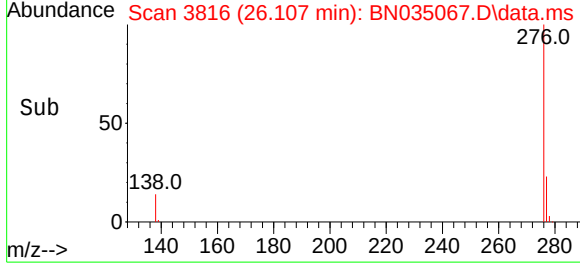


#41
Benzo(g,h,i)perylene
Concen: 3.079 ng
RT: 26.107 min Scan# 3812
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:276 Resp: 192341
Ion Ratio Lower Upper
276 100
277 23.4 19.9 29.9
138 13.8 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035069.D
 Acq On : 13 Nov 2024 16:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

Quant Time: Nov 13 17:18:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

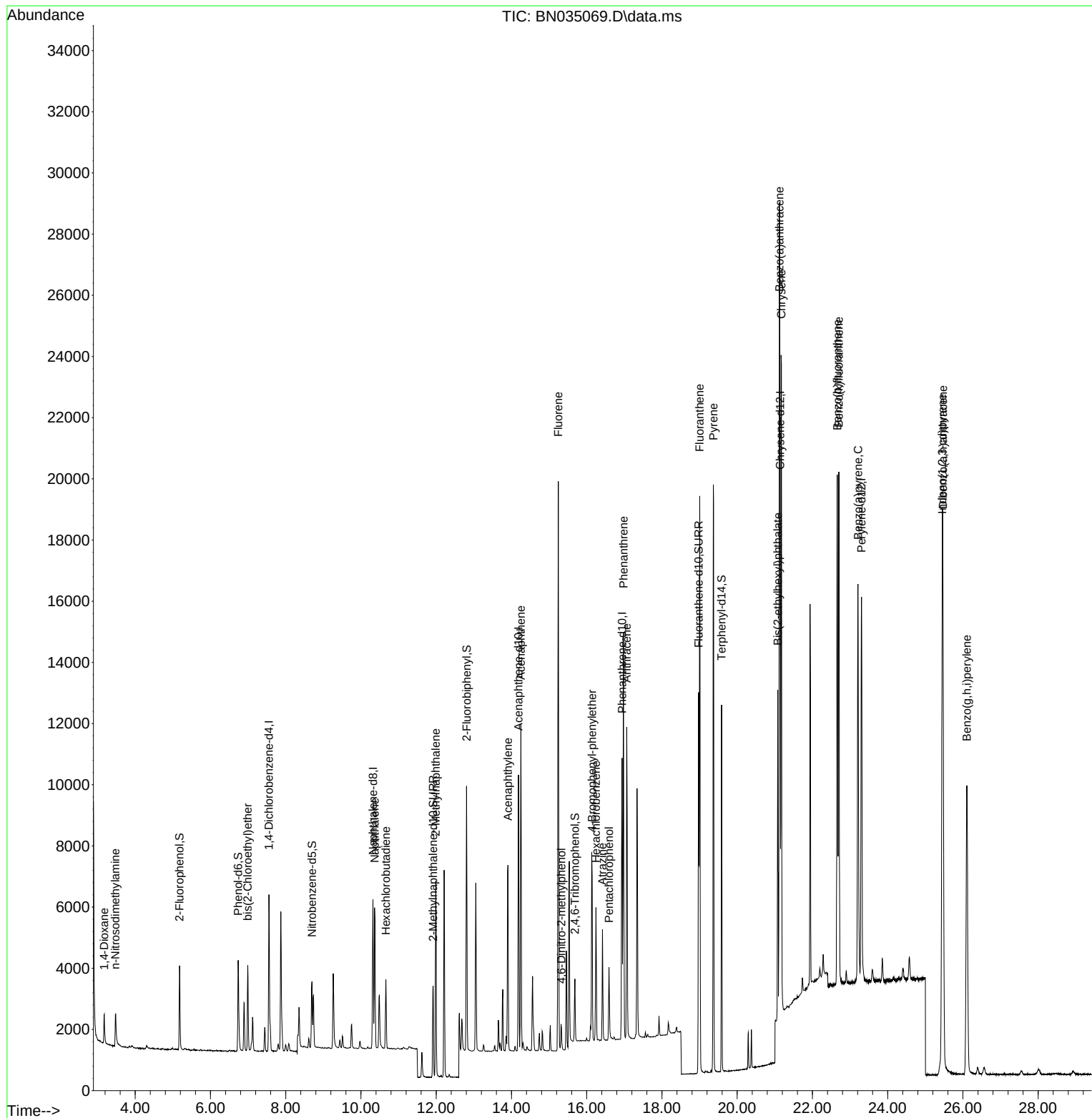
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2509	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6367	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4967	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	12682	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14055	0.400	ng	0.00
35) Perylene-d12	23.304	264	15724	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2342	0.368	ng	0.00
5) Phenol-d6	6.737	99	2867	0.359	ng	0.00
8) Nitrobenzene-d5	8.696	82	1983	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4166	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1154	0.322	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7205	0.357	ng	0.00
27) Fluoranthene-d10	18.976	212	14530	0.374	ng	0.00
31) Terphenyl-d14	19.584	244	11240	0.381	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	845	0.371	ng	99
3) n-Nitrosodimethylamine	3.473	42	781	0.368	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	2218	0.370	ng	98
9) Naphthalene	10.362	128	6092	0.366	ng	100
10) Hexachlorobutadiene	10.661	225	1817	0.373	ng	# 98
12) 2-Methylnaphthalene	11.988	142	4513	0.368	ng	99
16) Acenaphthylene	13.908	152	7387	0.348	ng	100
17) Acenaphthene	14.250	154	4995	0.359	ng	99
18) Fluorene	15.245	166	7206	0.352	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	830	0.314	ng	# 90
21) 4-Bromophenyl-phenylether	16.145	248	3001	0.371	ng	98
22) Hexachlorobenzene	16.244	284	3175	0.379	ng	99
23) Atrazine	16.418	200	2682	0.370	ng	98
24) Pentachlorophenol	16.592	266	1269	0.324	ng	98
25) Phenanthrene	16.977	178	12517	0.375	ng	99
26) Anthracene	17.063	178	11219	0.366	ng	100
28) Fluoranthene	19.004	202	17084	0.372	ng	100
30) Pyrene	19.366	202	17580	0.376	ng	100
32) Benzo(a)anthracene	21.122	228	18406	0.376	ng	99
33) Chrysene	21.176	228	18693	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	8691	0.338	ng	100
36) Indeno(1,2,3-cd)pyrene	25.450	276	23546	0.375	ng	99
37) Benzo(b)fluoranthene	22.660	252	20039	0.379	ng	99
38) Benzo(k)fluoranthene	22.701	252	20114	0.380	ng	98
39) Benzo(a)pyrene	23.210	252	17596	0.378	ng	99
40) Dibenzo(a,h)anthracene	25.467	278	18547	0.373	ng	98
41) Benzo(g,h,i)perylene	26.104	276	19649	0.372	ng	99

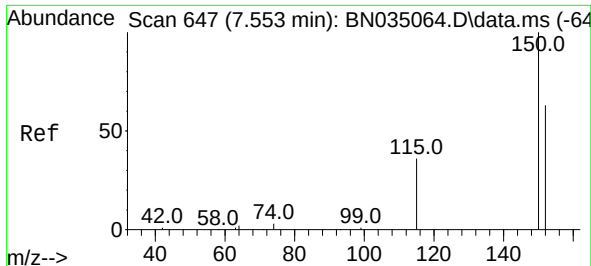
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Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

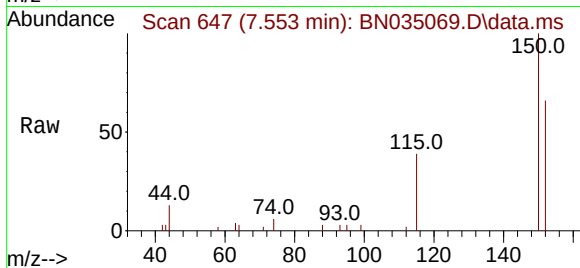
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration





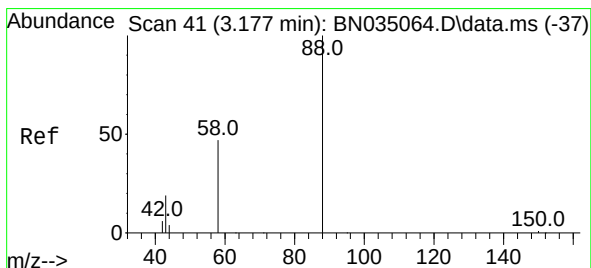
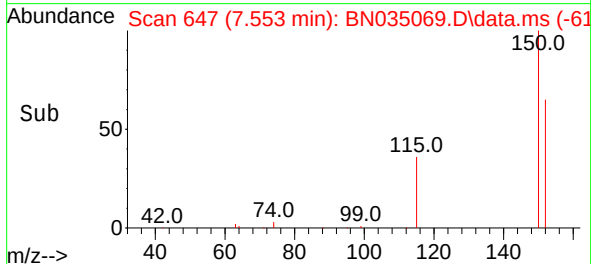
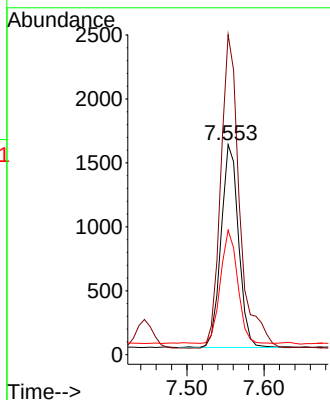
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.553 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324



Tgt Ion:152 Resp: 2509

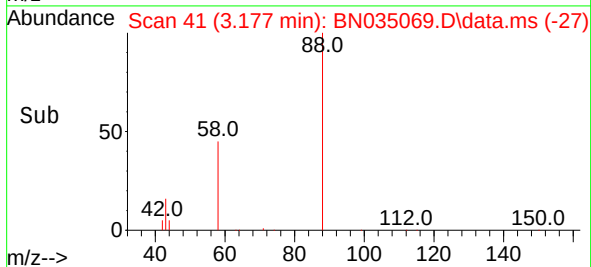
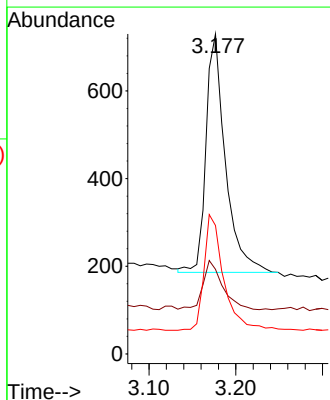
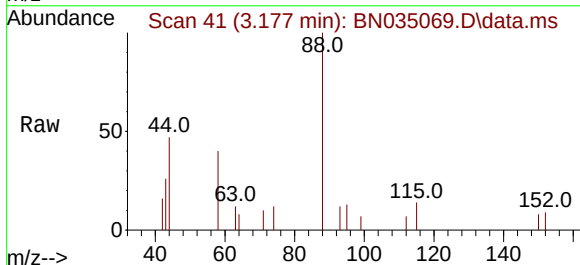
Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.5	186.7
115	59.3	47.8	71.6

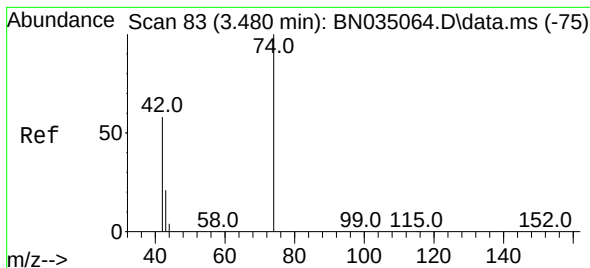


#2
 1,4-Dioxane
 Concen: 0.371 ng
 RT: 3.177 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

Tgt Ion: 88 Resp: 845

Ion	Ratio	Lower	Upper
88	100		
43	20.8	16.9	25.3
58	49.1	39.0	58.4





#3

n-Nitrosodimethylamine

Concen: 0.368 ng

RT: 3.473 min Scan# 81

Delta R.T. -0.007 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

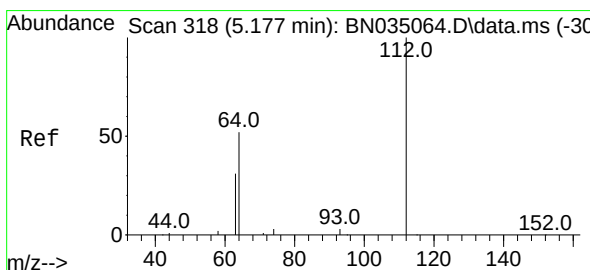
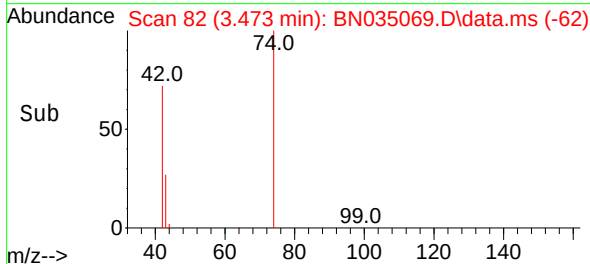
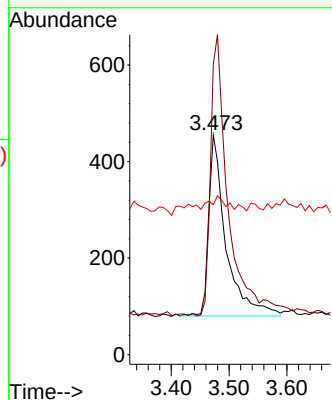
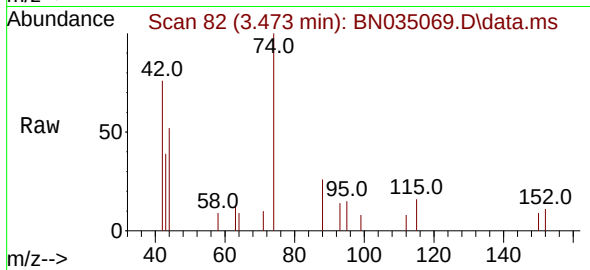
Tgt Ion: 42 Resp: 781

Ion Ratio Lower Upper

42 100

74 158.6 120.8 181.2

44 8.7 2.9 4.3#



#4

2-Fluorophenol

Concen: 0.368 ng

RT: 5.177 min Scan# 318

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

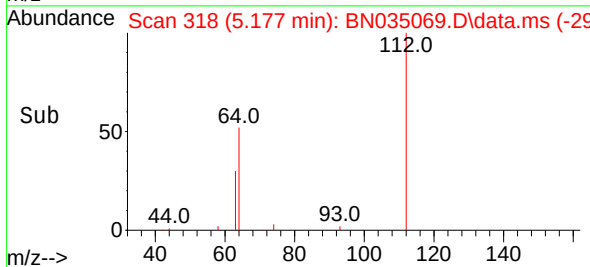
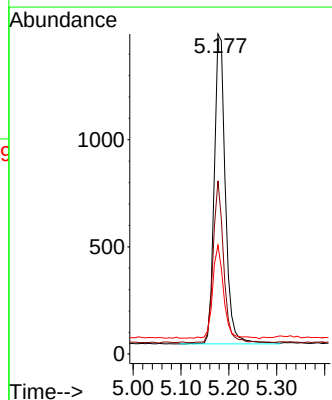
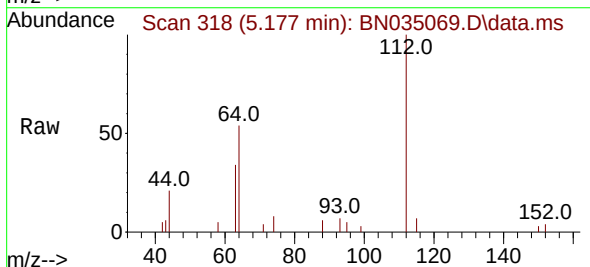
Tgt Ion: 112 Resp: 2342

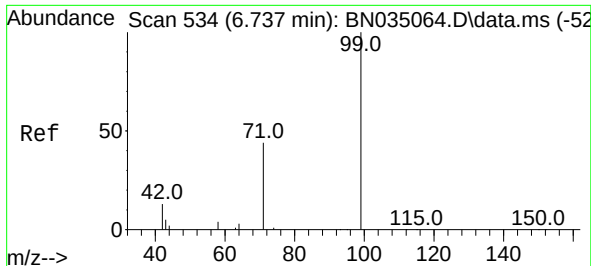
Ion Ratio Lower Upper

112 100

64 48.8 39.7 59.5

63 30.1 23.0 34.4

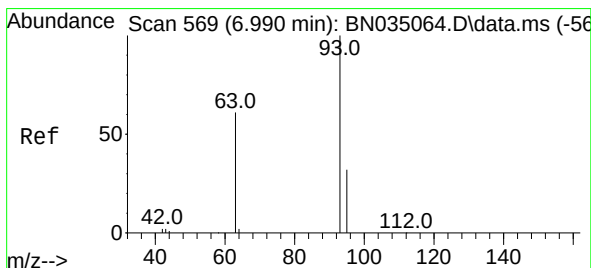
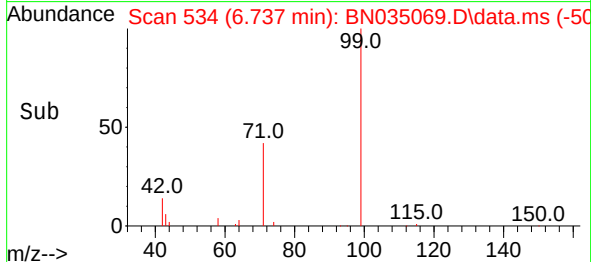
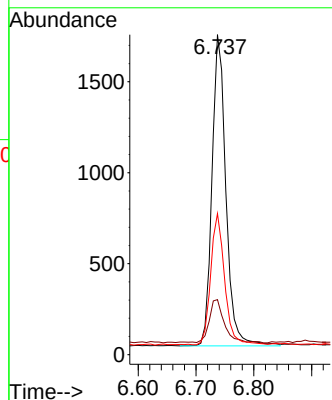
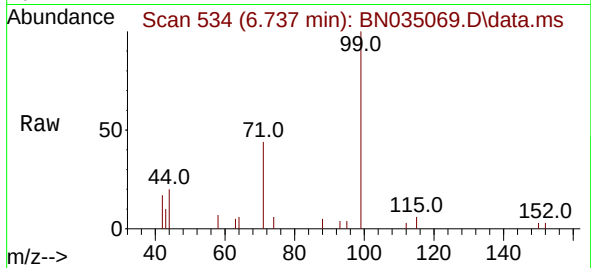




#5
Phenol-d6
Concen: 0.359 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

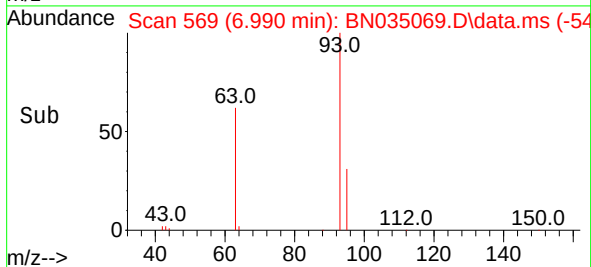
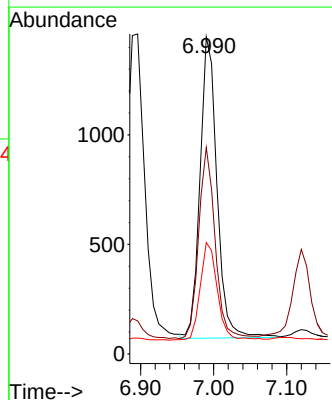
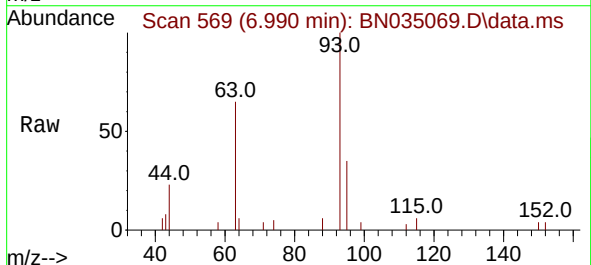
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

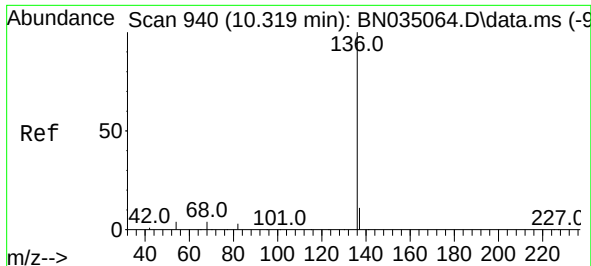
Tgt Ion: 99 Resp: 2867
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.0
71 42.1 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 93 Resp: 2218
Ion Ratio Lower Upper
93 100
63 61.3 47.4 71.2
95 33.0 26.2 39.4

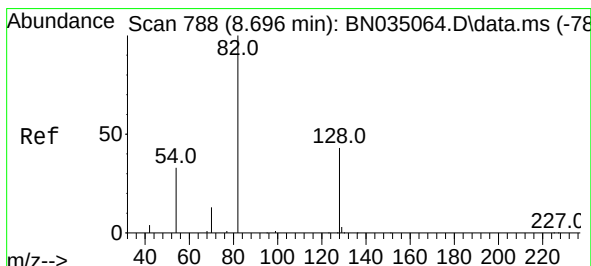
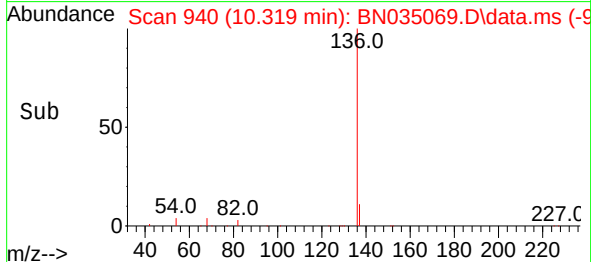
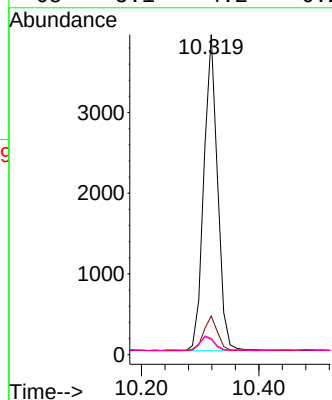
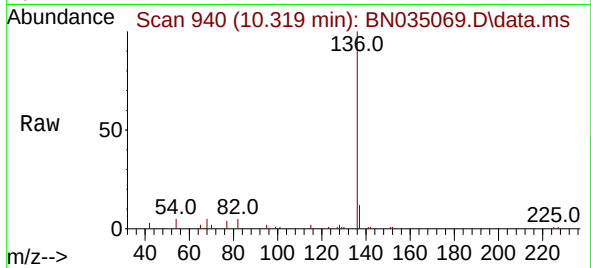




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

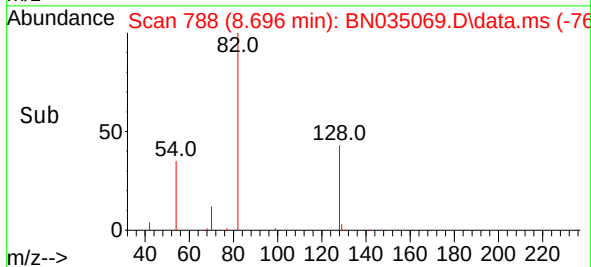
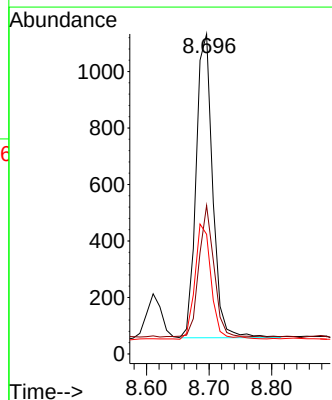
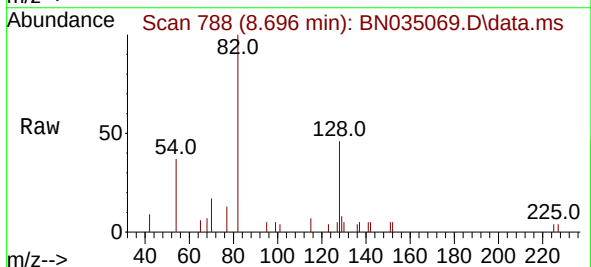
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

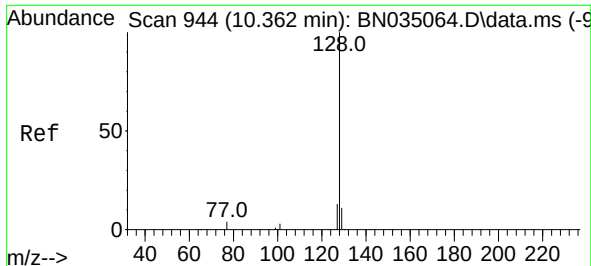
Tgt Ion:	136	Resp:	6367
Ion Ratio	Lower	Upper	
136	100		
137	12.1	9.8	14.8
54	4.8	4.0	6.0
68	5.1	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	82	Resp:	1983
Ion Ratio	Lower	Upper	
82	100		
128	46.4	36.5	54.7
54	37.4	28.7	43.1

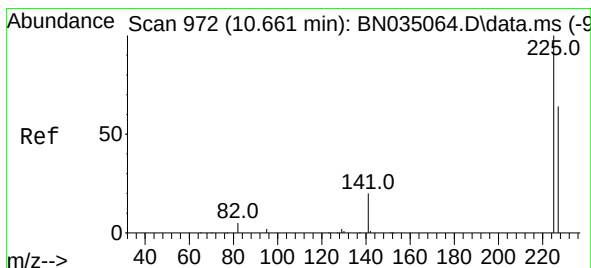
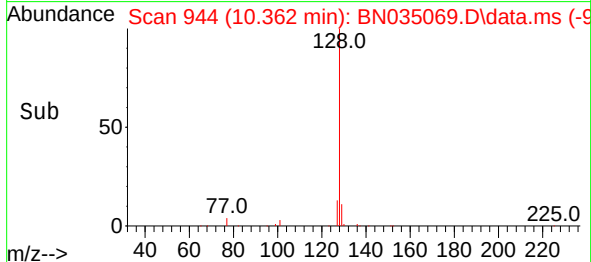
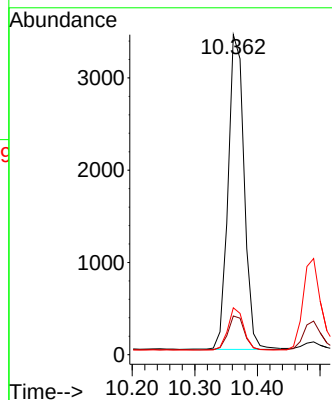
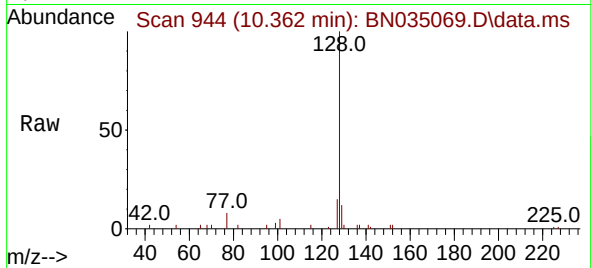




#9
Naphthalene
Concen: 0.366 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

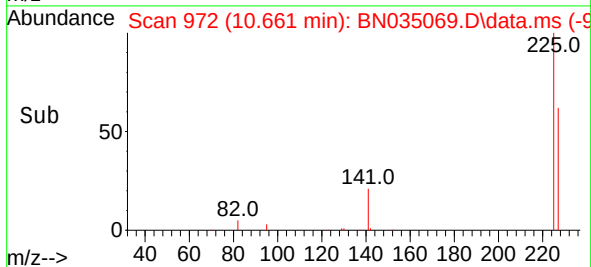
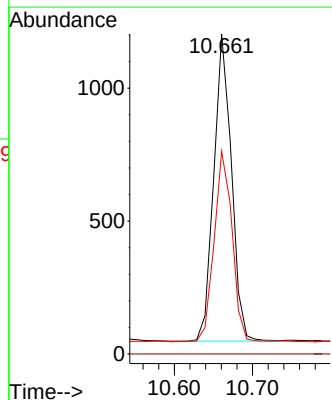
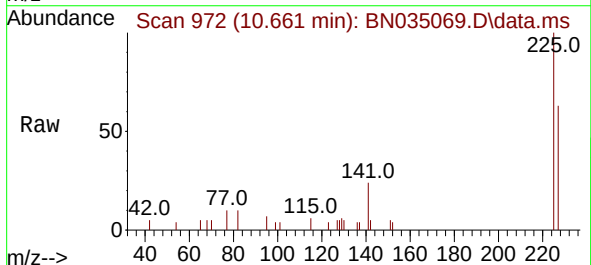
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

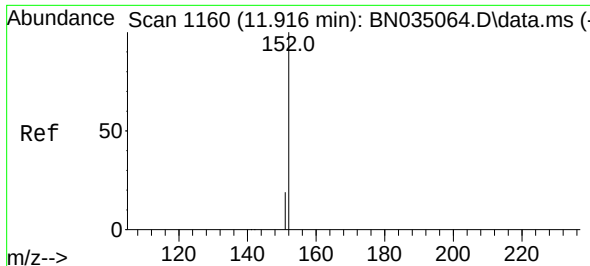
Tgt Ion:128 Resp: 6092
Ion Ratio Lower Upper
128 100
129 12.1 9.6 14.4
127 14.7 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:225 Resp: 1817
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 51.5 77.3





#11

2-Methylnaphthalene-d10

Concen: 0.367 ng

RT: 11.916 min Scan# 1160

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

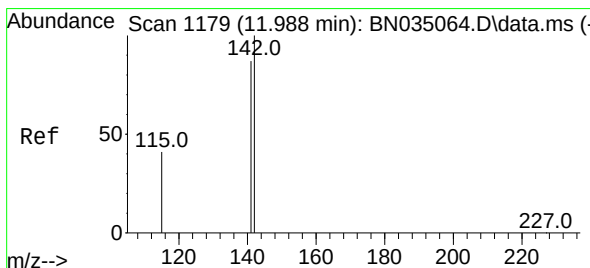
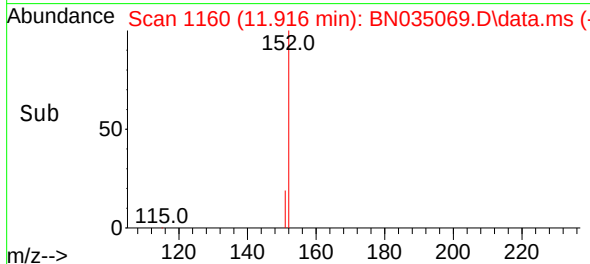
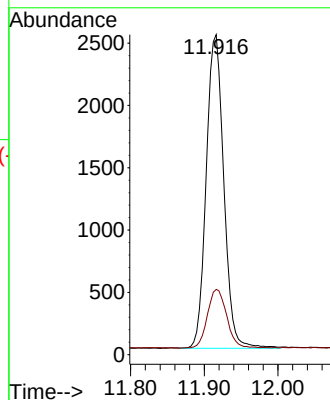
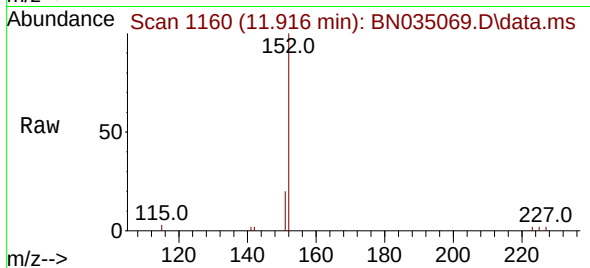
ICVBN111324

Tgt Ion:152 Resp: 4166

Ion Ratio Lower Upper

152 100

151 20.6 16.2 24.4



#12

2-Methylnaphthalene

Concen: 0.368 ng

RT: 11.988 min Scan# 1179

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

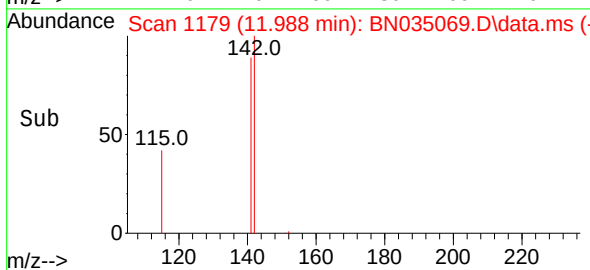
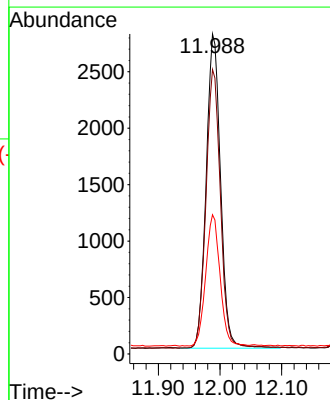
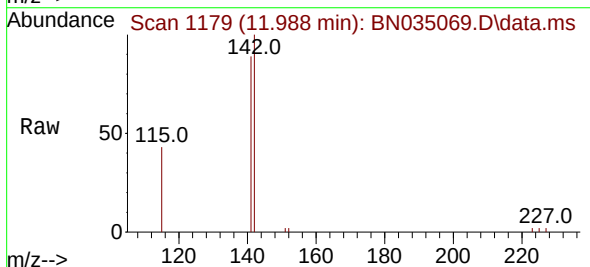
Tgt Ion:142 Resp: 4513

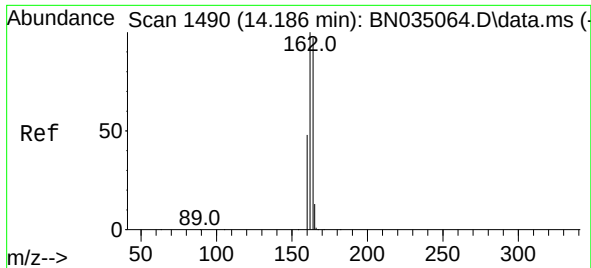
Ion Ratio Lower Upper

142 100

141 88.9 70.1 105.1

115 43.5 34.4 51.6

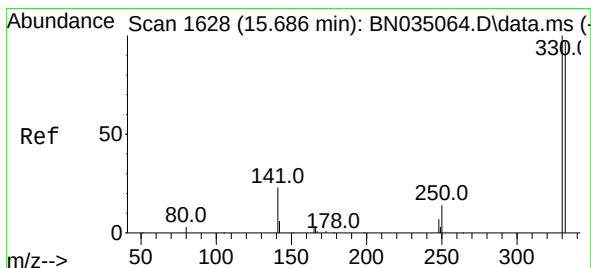
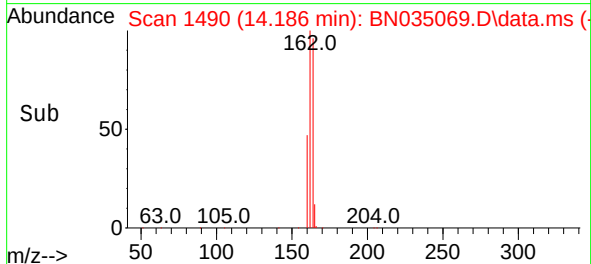
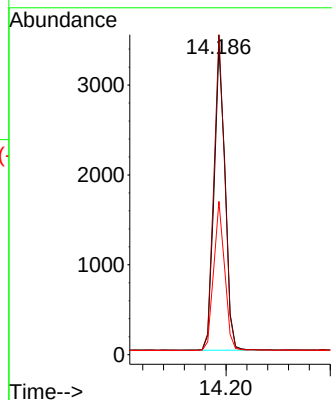
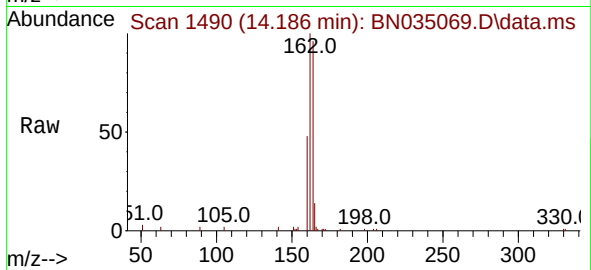




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

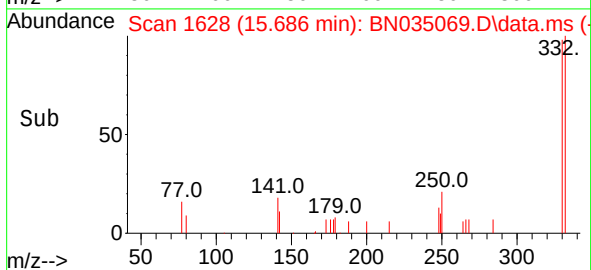
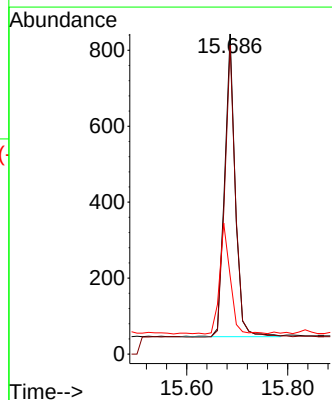
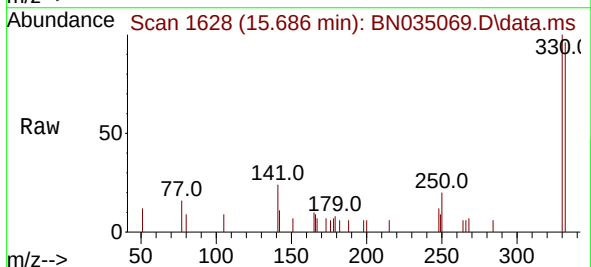
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

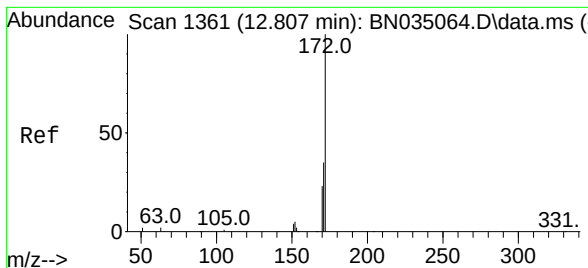
Tgt Ion:164 Resp: 4967
Ion Ratio Lower Upper
164 100
162 104.1 82.2 123.2
160 49.8 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.322 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:330 Resp: 1154
Ion Ratio Lower Upper
330 100
332 97.3 76.9 115.3
141 36.7 29.6 44.4

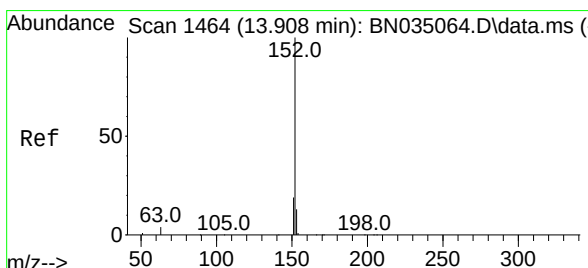
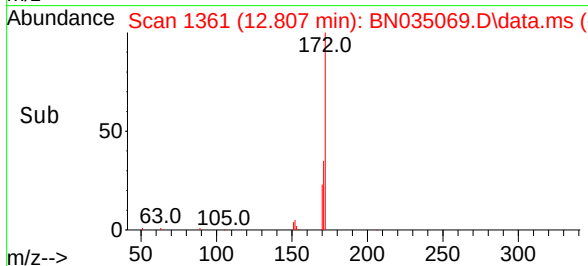
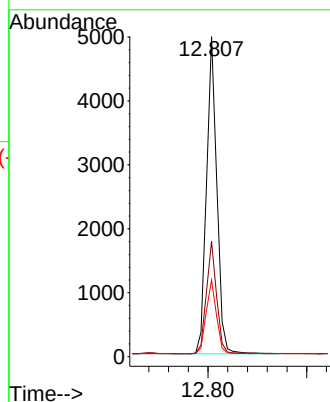
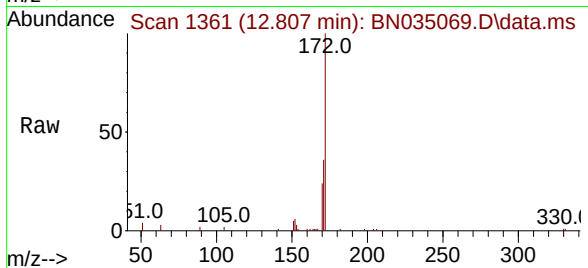




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

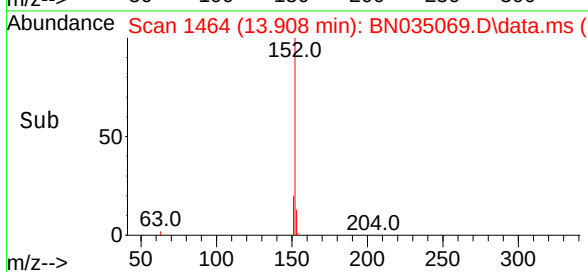
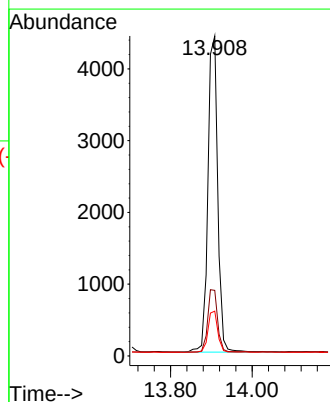
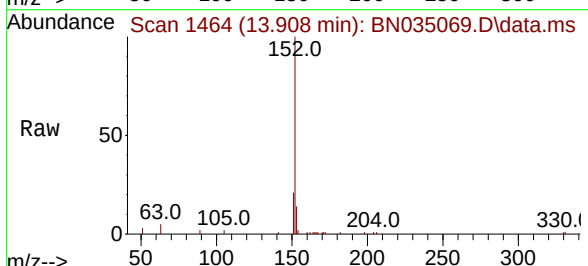
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

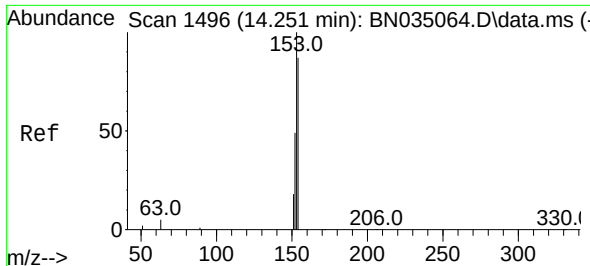
Tgt Ion:	172	Resp:	7205
Ion Ratio	Lower	Upper	
172	100		
171	36.1	28.2	42.4
170	23.9	19.0	28.6



#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	152	Resp:	7387
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.8	23.8
153	13.0	10.2	15.4

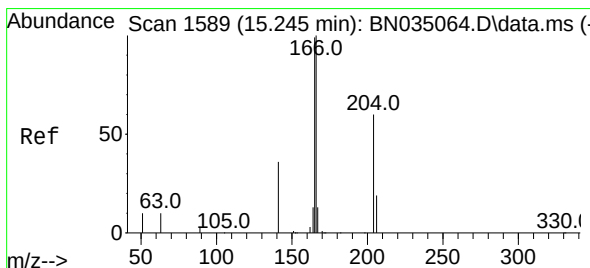
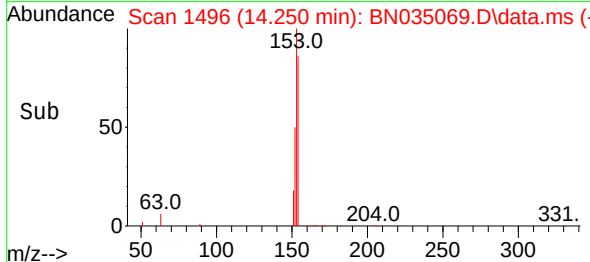
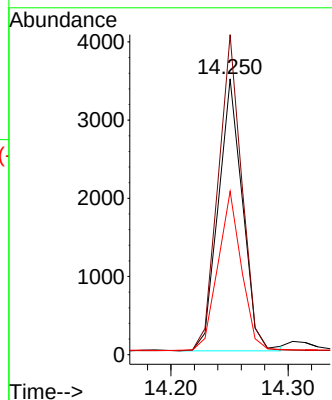
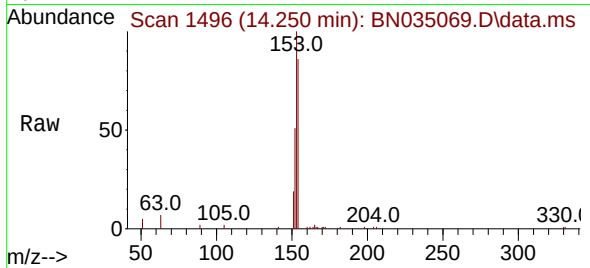




#17
Acenaphthene
Concen: 0.359 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

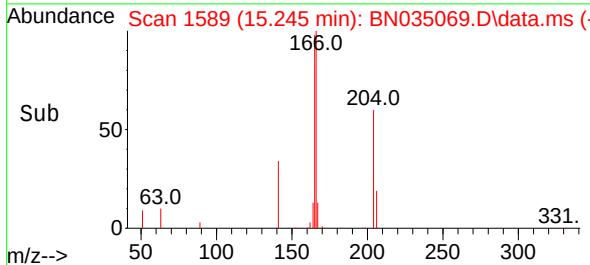
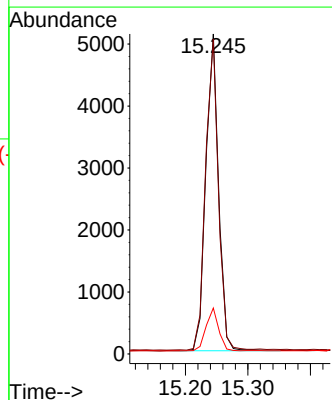
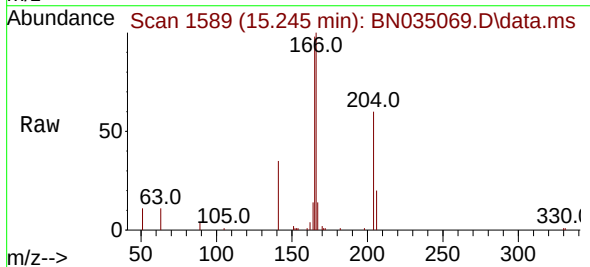
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

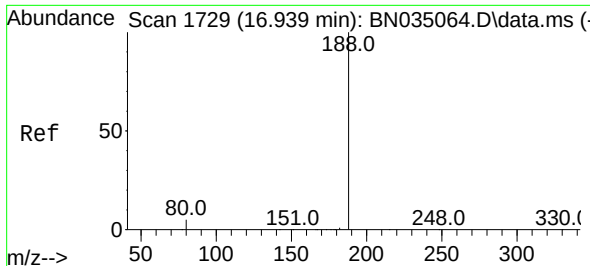
Tgt Ion:154 Resp: 4995
Ion Ratio Lower Upper
154 100
153 113.2 91.6 137.4
152 57.7 45.8 68.6



#18
Fluorene
Concen: 0.352 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:166 Resp: 7206
Ion Ratio Lower Upper
166 100
165 99.0 79.1 118.7
167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

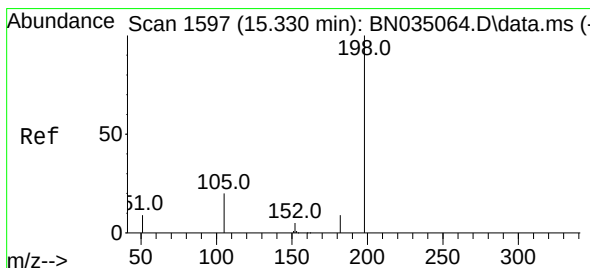
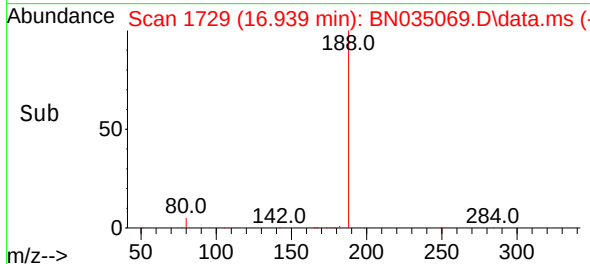
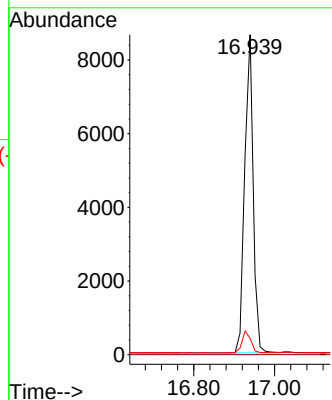
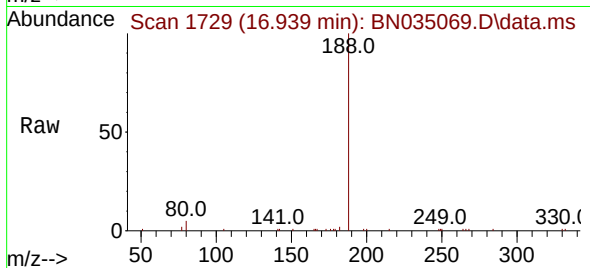
Tgt Ion:188 Resp: 12682

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.1 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.314 ng

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

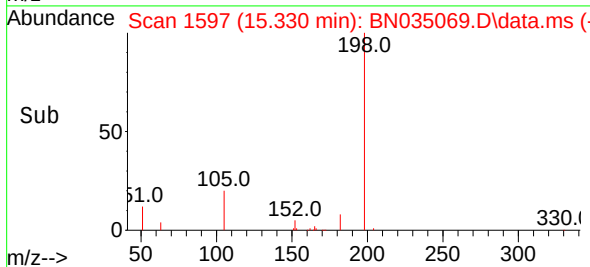
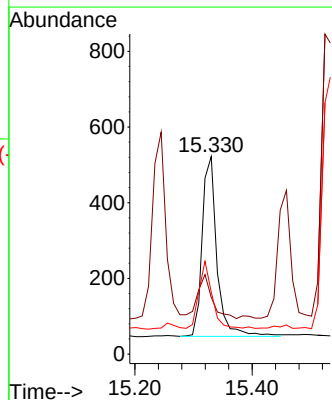
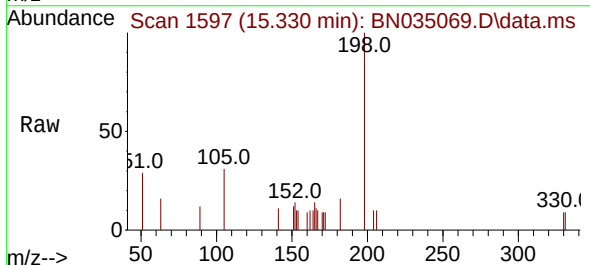
Tgt Ion:198 Resp: 830

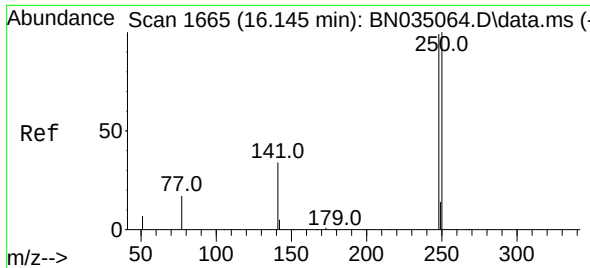
Ion Ratio Lower Upper

198 100

51 28.7 29.9 44.9

105 31.4 23.7 35.5

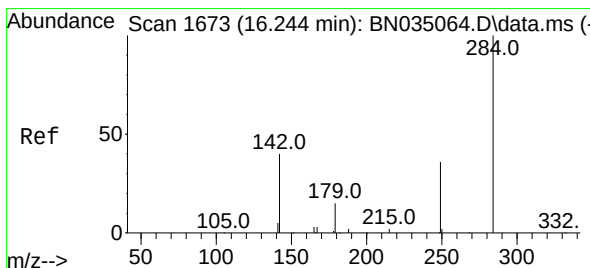
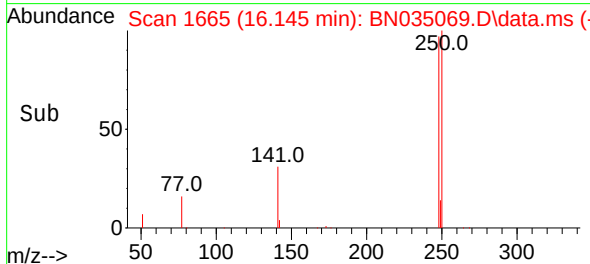
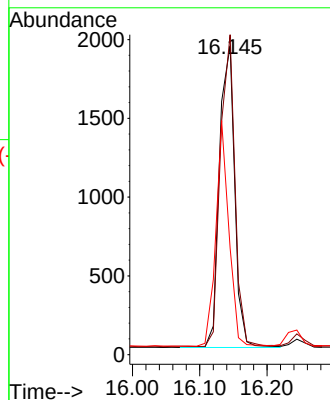
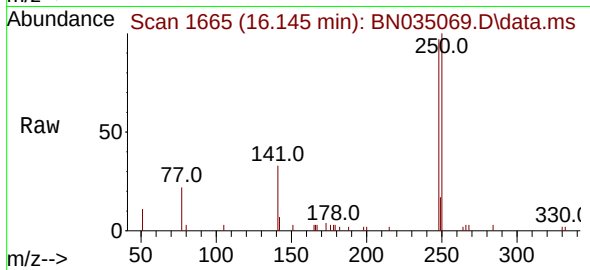




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

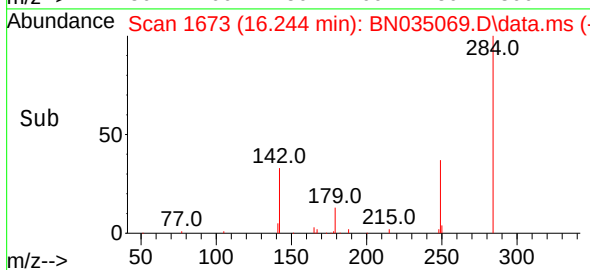
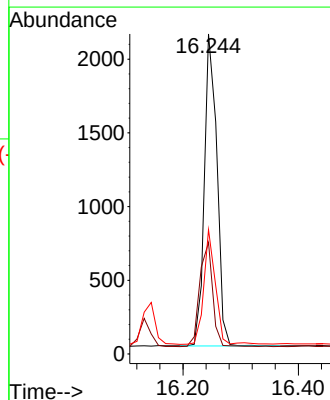
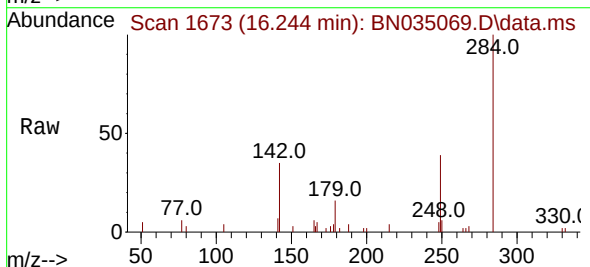
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

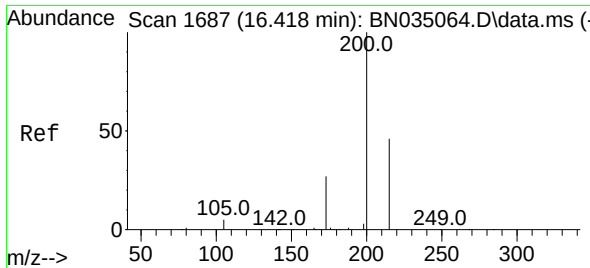
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.6	81.2	121.8
141	34.5	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.379 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	33.7	26.2	39.2

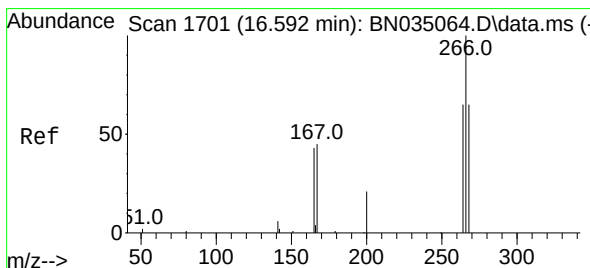
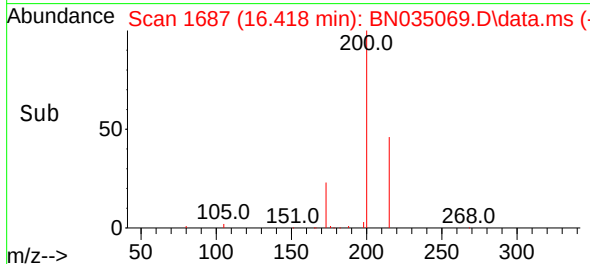
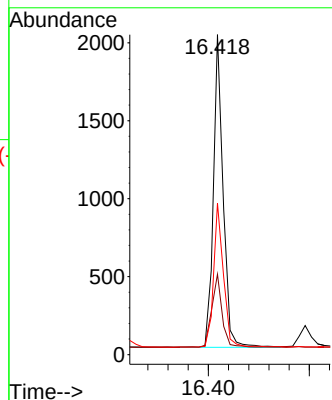
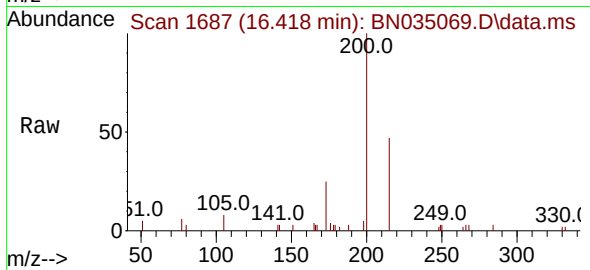




#23
Atrazine
Concen: 0.370 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

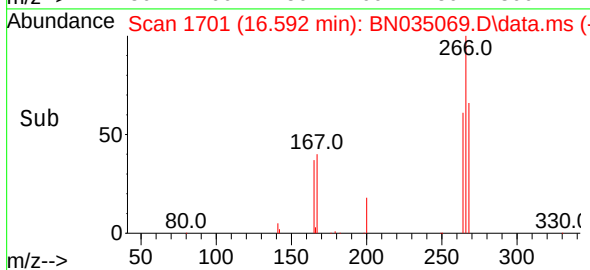
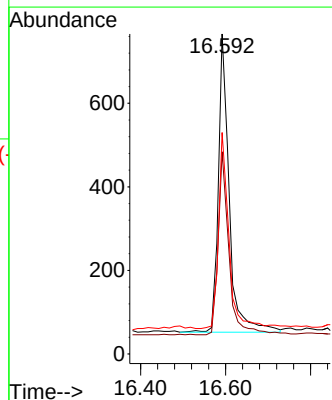
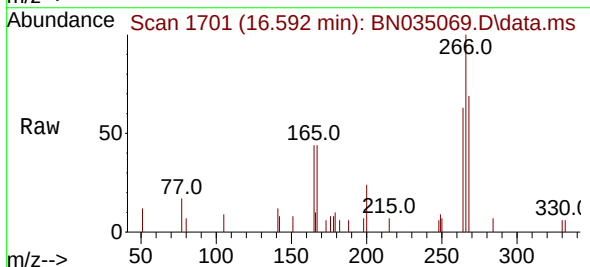
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

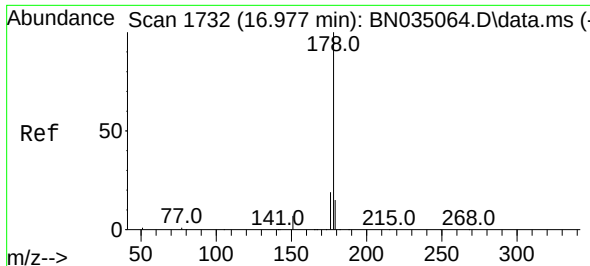
Tgt Ion:200 Resp: 2682
Ion Ratio Lower Upper
200 100
173 25.1 22.6 33.8
215 47.3 37.8 56.6



#24
Pentachlorophenol
Concen: 0.324 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:266 Resp: 1269
Ion Ratio Lower Upper
266 100
264 60.5 49.4 74.0
268 63.4 52.6 79.0

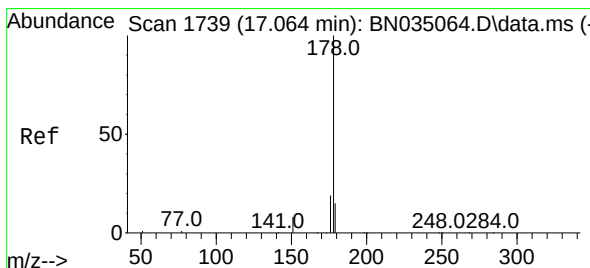
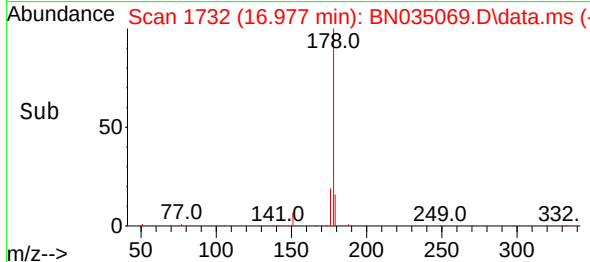
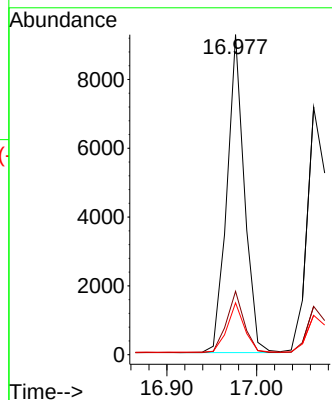
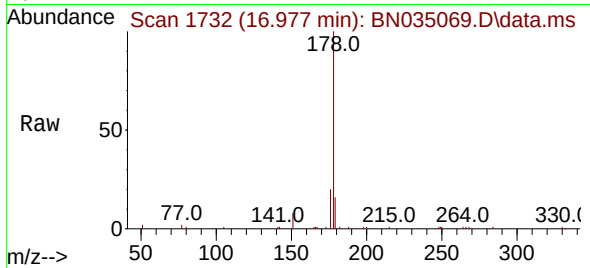




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

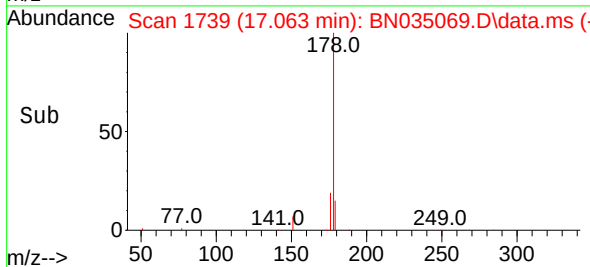
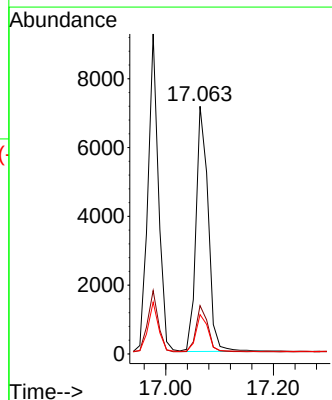
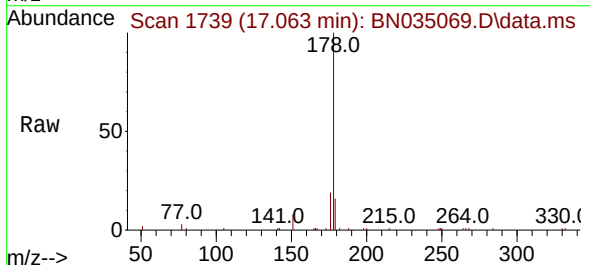
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

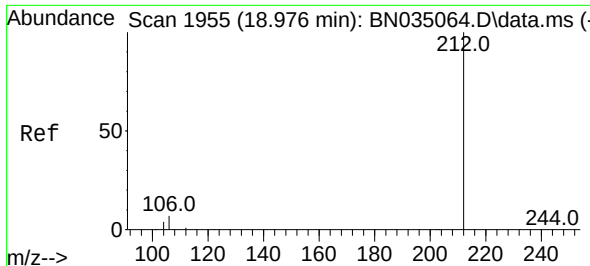
Tgt Ion:178 Resp: 12517
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.6 12.6 18.8



#26
Anthracene
Concen: 0.366 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:178 Resp: 11219
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

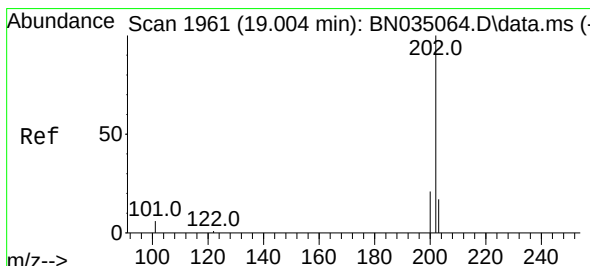
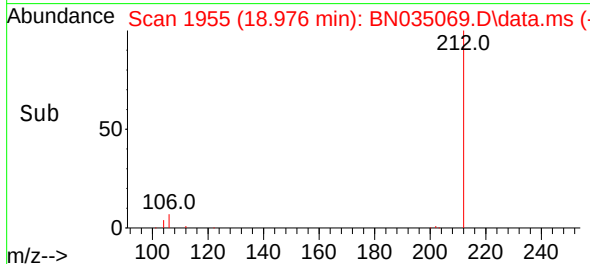
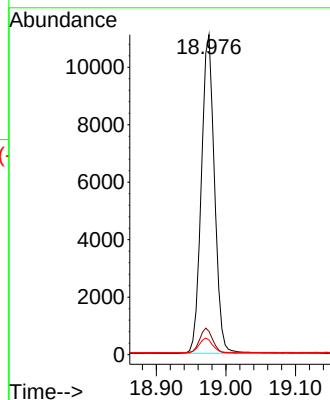
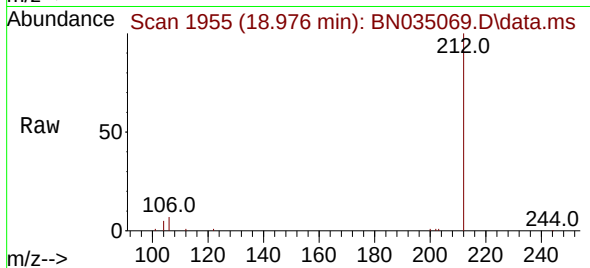
Tgt Ion:212 Resp: 14530

Ion Ratio Lower Upper

212 100

106 7.8 6.0 9.0

104 4.5 3.5 5.3



#28

Fluoranthene

Concen: 0.372 ng

RT: 19.004 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

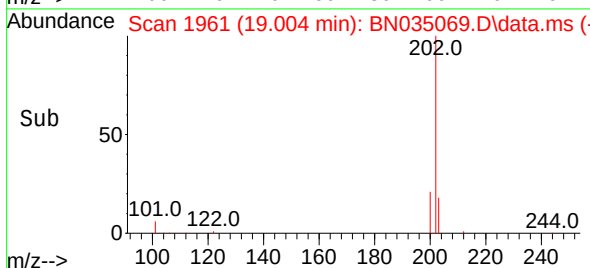
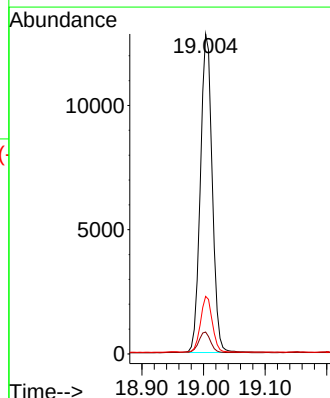
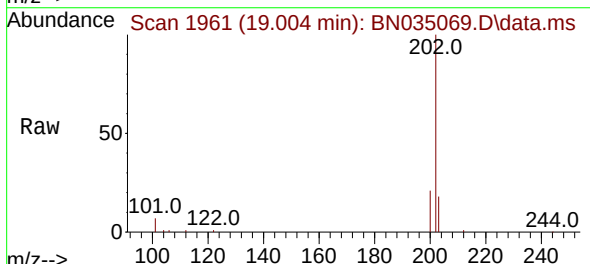
Tgt Ion:202 Resp: 17084

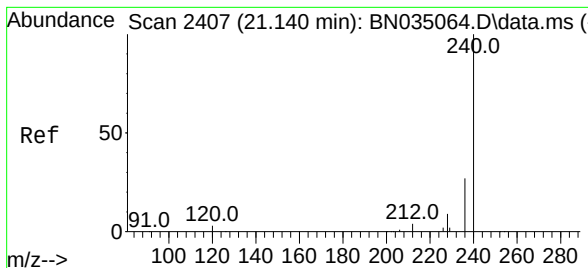
Ion Ratio Lower Upper

202 100

101 6.6 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

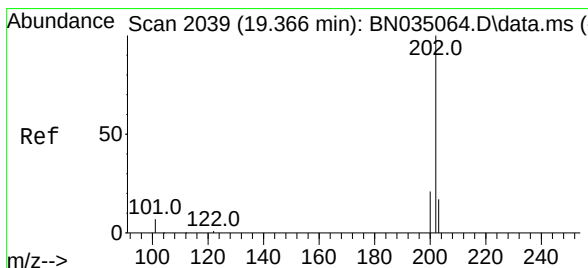
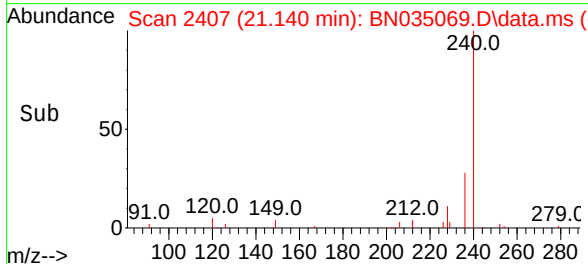
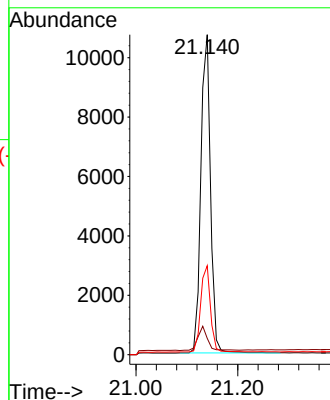
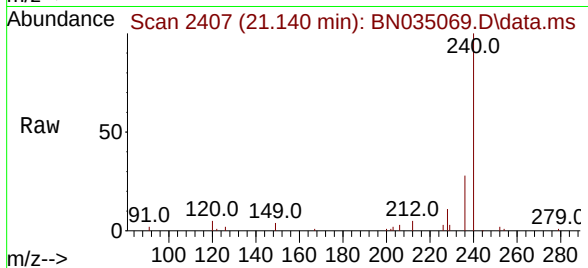
Tgt Ion:240 Resp: 14055

Ion Ratio Lower Upper

240 100

120 5.1 3.8 5.6

236 27.8 22.2 33.2



#30

Pyrene

Concen: 0.376 ng

RT: 19.366 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

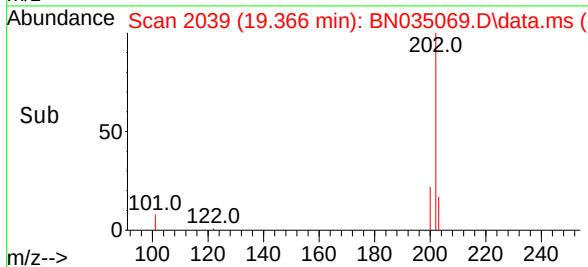
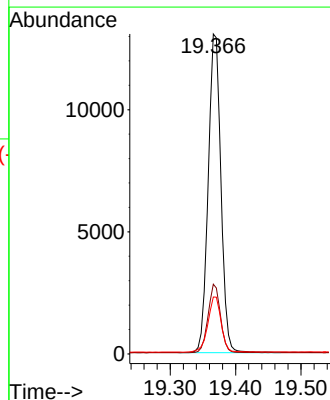
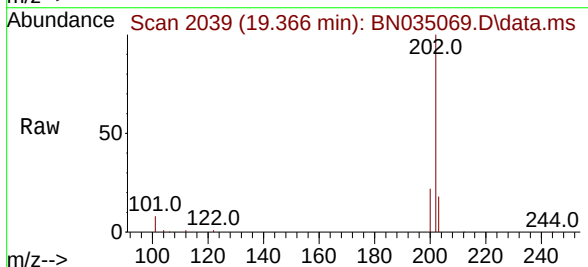
Tgt Ion:202 Resp: 17580

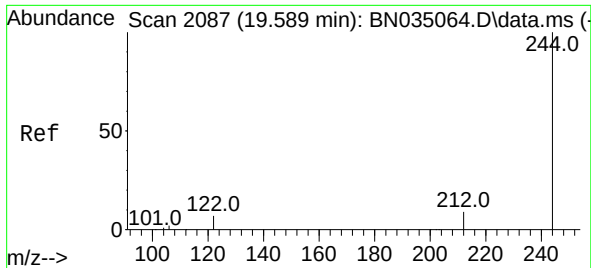
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 18.1 14.2 21.4

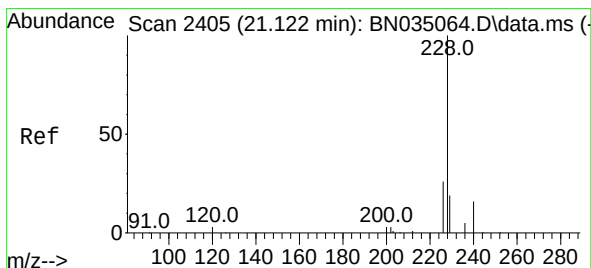
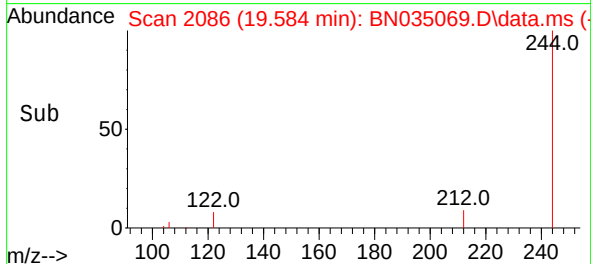
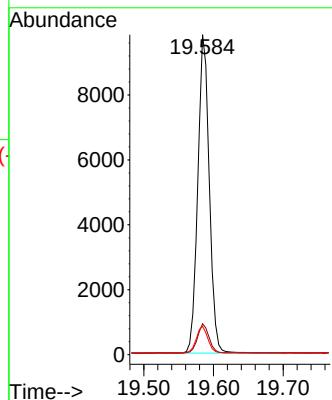
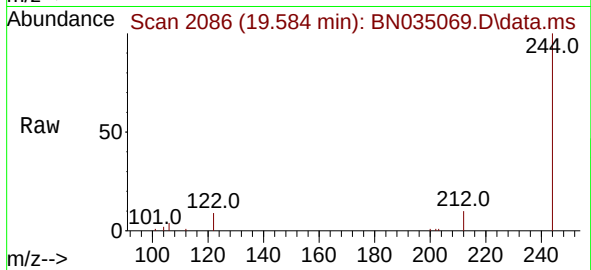




#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

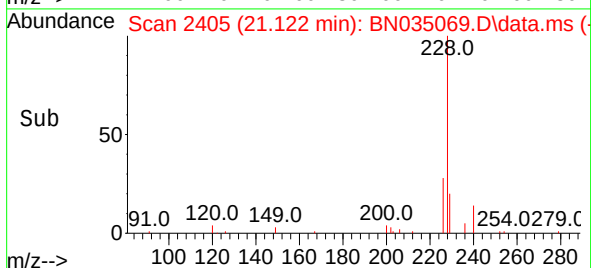
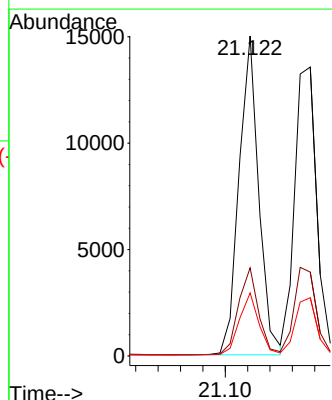
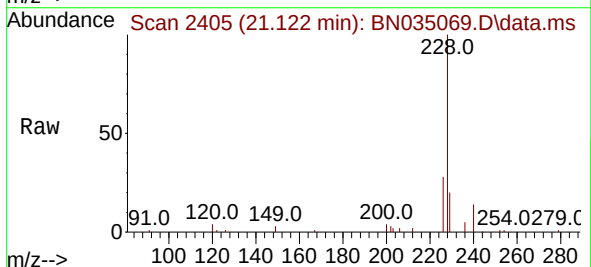
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

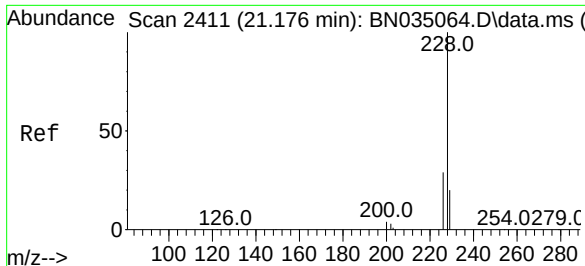
Tgt Ion:244 Resp: 11240
Ion Ratio Lower Upper
244 100
212 9.6 7.6 11.4
122 8.9 6.1 9.1



#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:228 Resp: 18406
Ion Ratio Lower Upper
228 100
226 27.6 21.4 32.0
229 19.7 15.7 23.5

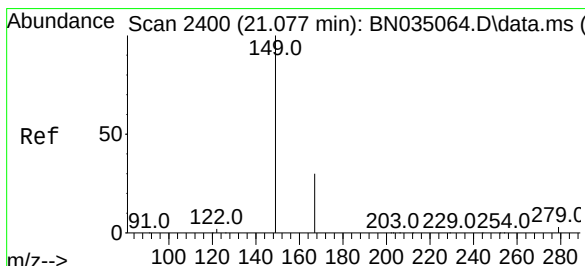
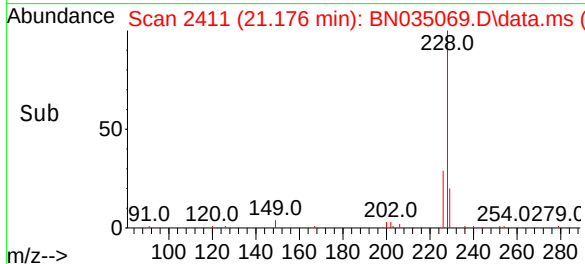
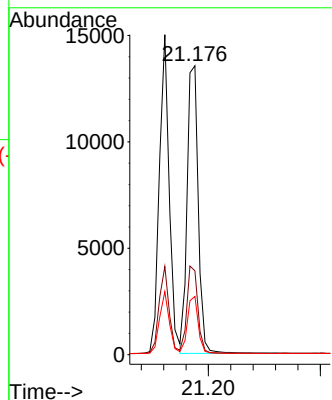
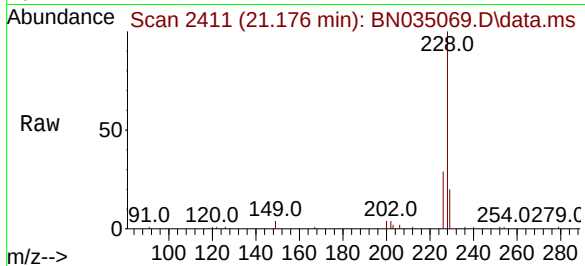




#33
Chrysene
Concen: 0.386 ng
RT: 21.176 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

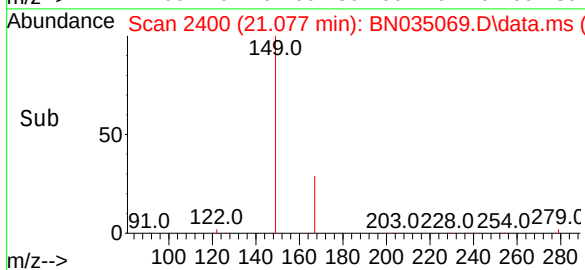
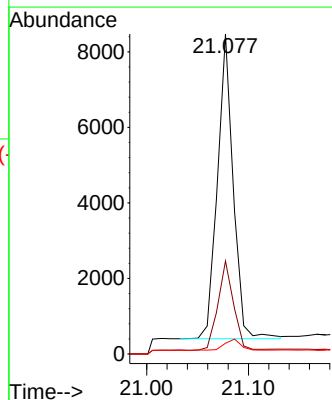
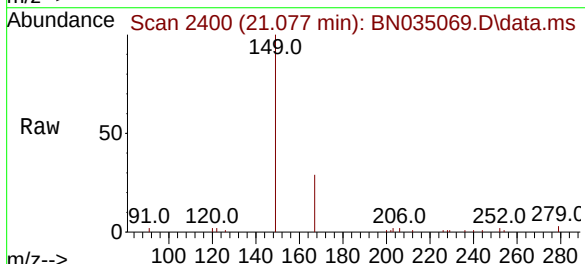
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

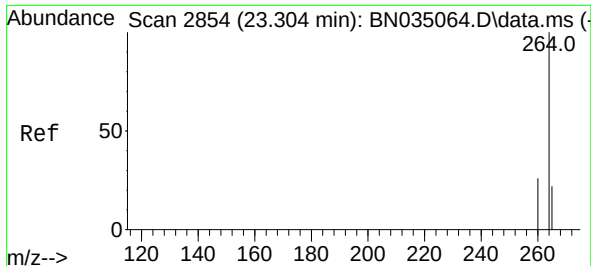
Tgt Ion:228 Resp: 18693
Ion Ratio Lower Upper
228 100
226 29.0 23.7 35.5
229 20.2 16.2 24.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.338 ng
RT: 21.077 min Scan# 2400
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:149 Resp: 8691
Ion Ratio Lower Upper
149 100
167 29.0 23.2 34.8
279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

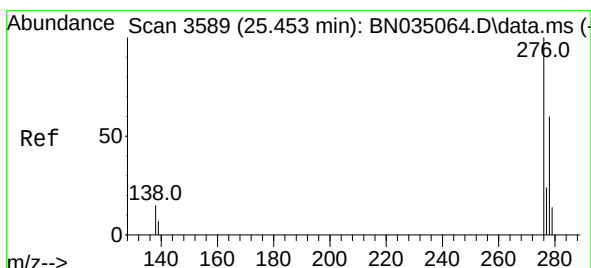
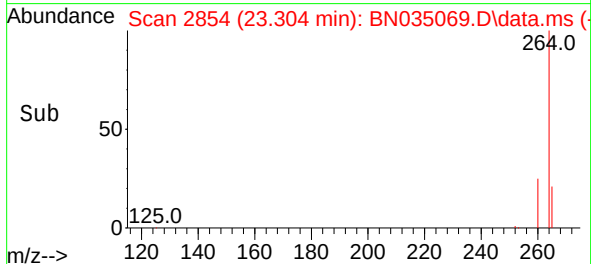
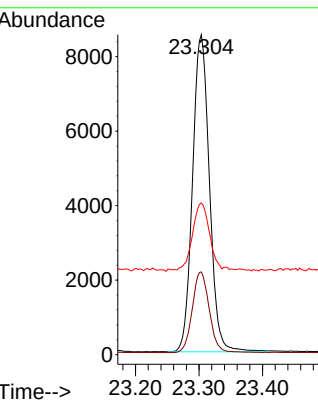
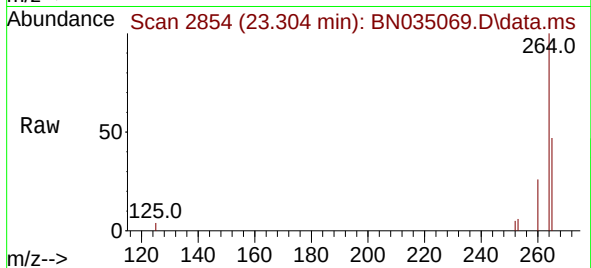
Tgt Ion:264 Resp: 15724

Ion Ratio Lower Upper

264 100

260 25.8 20.9 31.3

265 47.4 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.375 ng

RT: 25.450 min Scan# 3588

Delta R.T. -0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

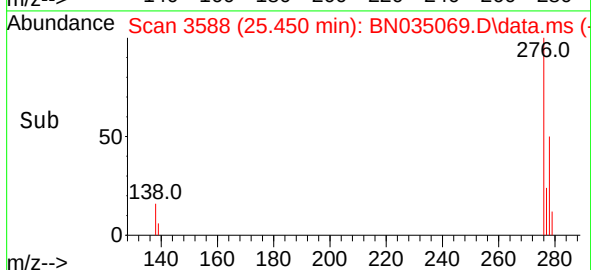
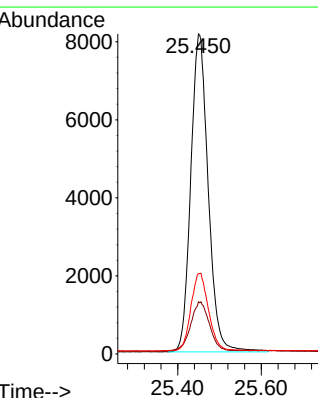
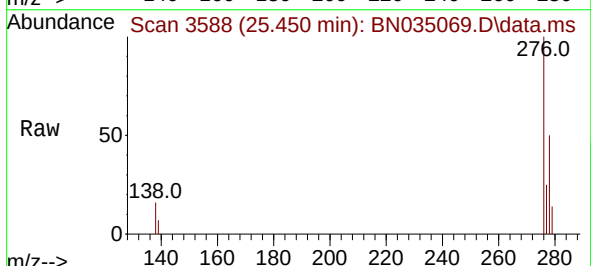
Tgt Ion:276 Resp: 23546

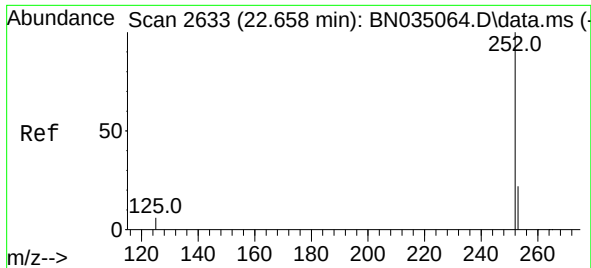
Ion Ratio Lower Upper

276 100

138 16.9 13.0 19.4

277 24.2 19.8 29.6

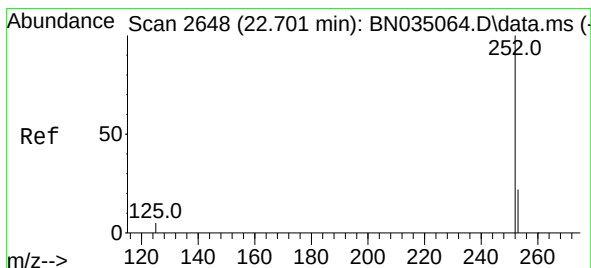
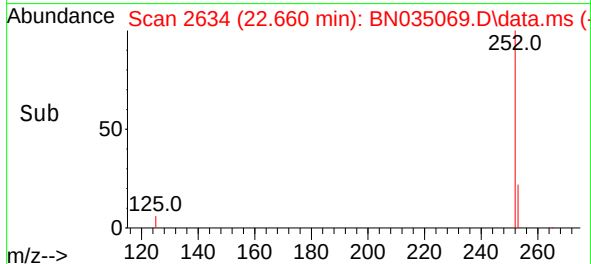
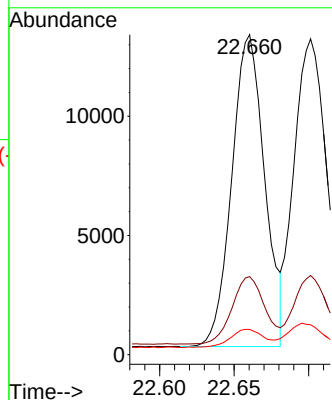
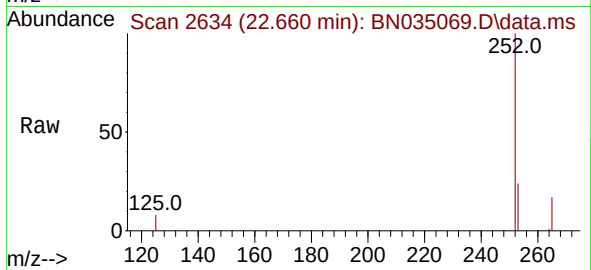




#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.660 min Scan# 2633
Delta R.T. 0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

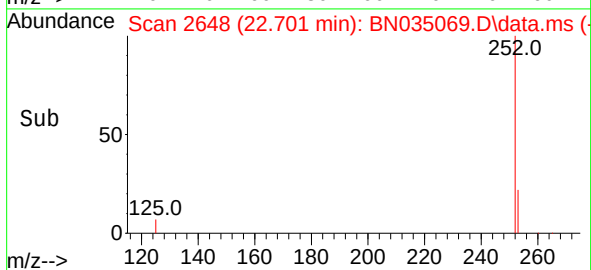
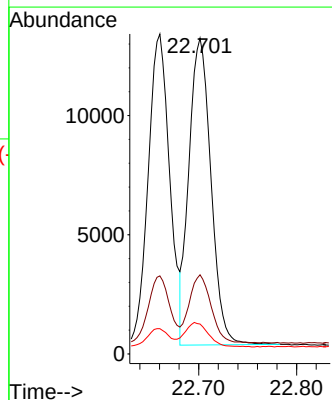
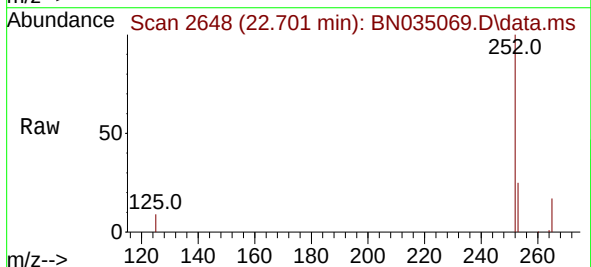
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

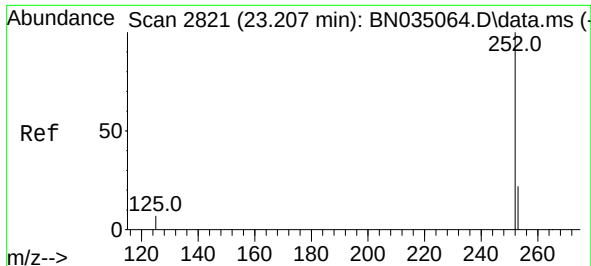
Tgt Ion:252 Resp: 20039
Ion Ratio Lower Upper
252 100
253 24.4 19.3 28.9
125 7.9 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 22.701 min Scan# 2648
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:252 Resp: 20114
Ion Ratio Lower Upper
252 100
253 25.1 19.5 29.3
125 9.5 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.210 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

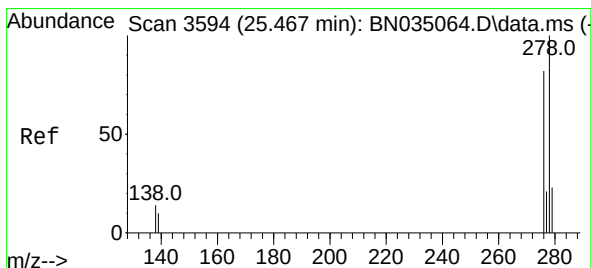
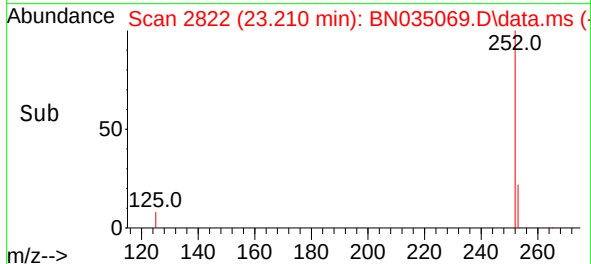
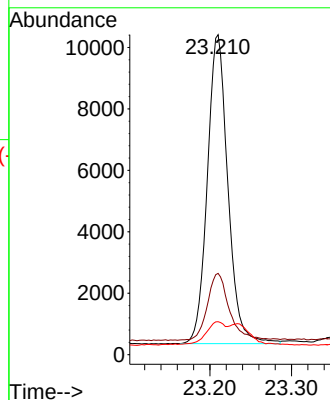
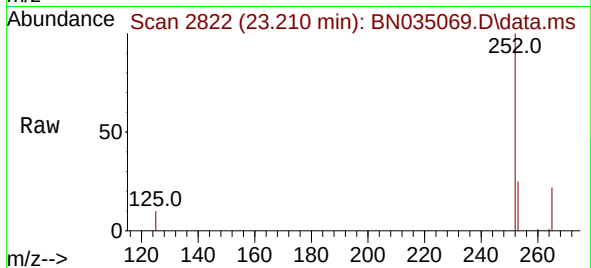
Tgt Ion:252 Resp: 17596

Ion Ratio Lower Upper

252 100

253 25.4 20.1 30.1

125 10.3 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 25.467 min Scan# 3594

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

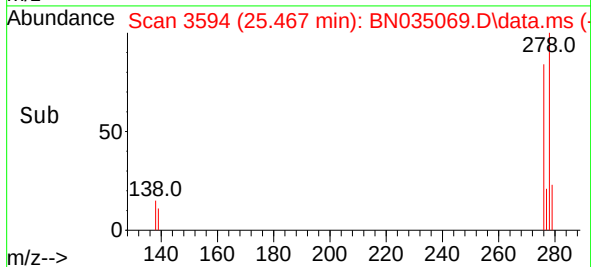
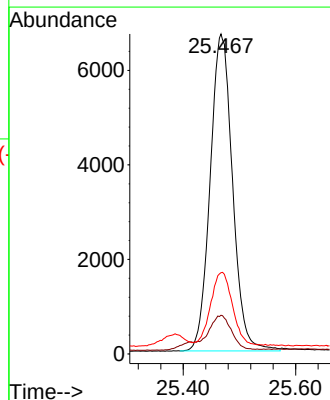
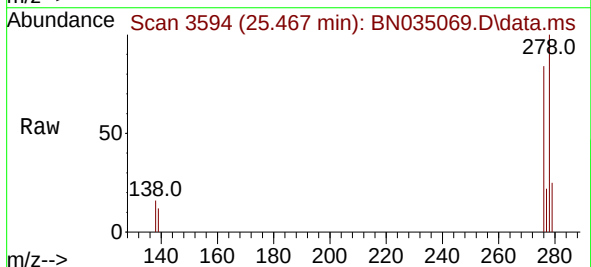
Tgt Ion:278 Resp: 18547

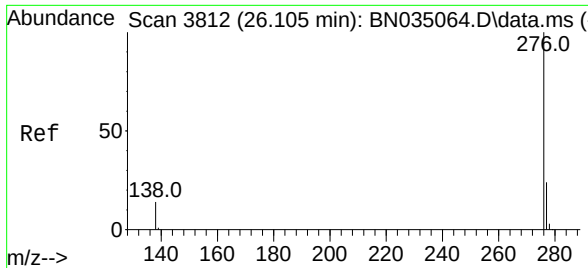
Ion Ratio Lower Upper

278 100

139 12.1 9.3 13.9

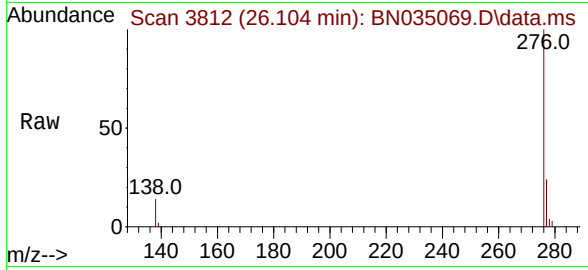
279 25.4 19.7 29.5



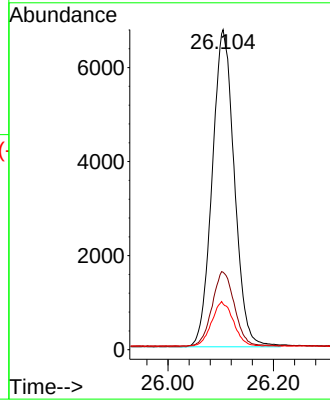
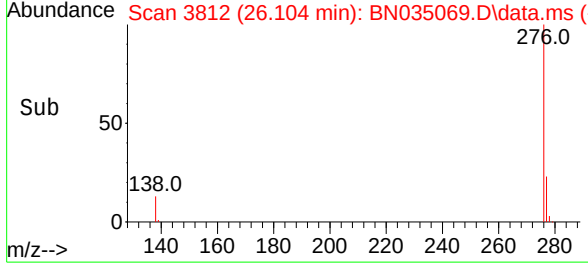


#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 26.104 min Scan# 3812
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:	276	Resp:	19649
Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.9	29.9
138	14.3	11.6	17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035219.D
 Acq On : 21 Nov 2024 13:22
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 21 14:33:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

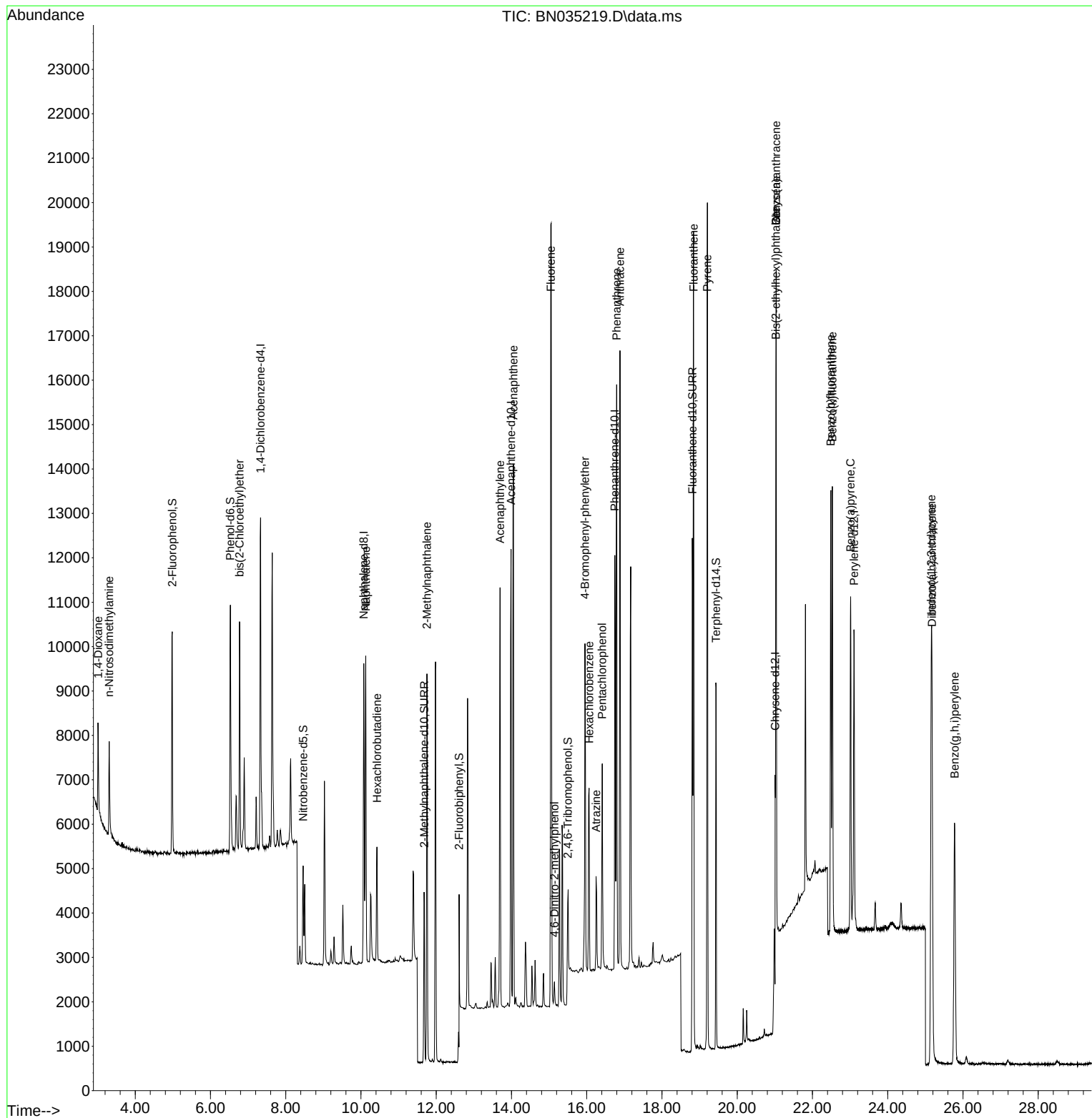
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3553	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	8594	0.400	ng	# 0.00
13) Acenaphthene-d10	13.987	164	5839	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	13132	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	2179	0.400	ng	# 0.00
35) Perylene-d12	23.104	264	7936	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	4170	0.462	ng	0.00
5) Phenol-d6	6.528	99	5231	0.463	ng	0.00
8) Nitrobenzene-d5	8.461	82	2473	0.331	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	5187	0.339	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	1931	0.458	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1744	0.074	ng	0.00
27) Fluoranthene-d10	18.806	212	12553	0.312	ng	0.00
31) Terphenyl-d14	19.438	244	7908	1.730	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.011	88	1431	0.443	ng	# 85
3) n-Nitrosodimethylamine	3.307	42	1242	0.413	ng	# 97
6) bis(2-Chloroethyl)ether	6.773	93	3817	0.450	ng	95
9) Naphthalene	10.127	128	8813	0.393	ng	99
10) Hexachlorobutadiene	10.426	225	2134	0.324	ng	# 100
12) 2-Methylnaphthalene	11.754	142	6233	0.377	ng	97
16) Acenaphthylene	13.698	152	10404	0.417	ng	99
17) Acenaphthene	14.051	154	6430	0.393	ng	99
18) Fluorene	15.045	166	8973	0.373	ng	99
20) 4,6-Dinitro-2-methylph...	15.142	198	427	0.156	ng	# 31
21) 4-Bromophenyl-phenylether	15.952	248	3185	0.381	ng	# 73
22) Hexachlorobenzene	16.064	284	3749	0.432	ng	96
23) Atrazine	16.250	200	1902	0.253	ng	# 94
24) Pentachlorophenol	16.411	266	2236	0.551	ng	98
25) Phenanthrene	16.796	178	13999	0.405	ng	99
26) Anthracene	16.883	178	13479	0.425	ng	99
28) Fluoranthene	18.839	202	16410	0.345	ng	# 97
30) Pyrene	19.206	202	16732	2.306	ng	100
32) Benzo(a)anthracene	21.035	228	12666	1.669	ng	95
33) Chrysene	21.035	228	12666	1.685	ng	98
34) Bis(2-ethylhexyl)phtha...	21.026	149	1204	0.302	ng	# 93
36) Indeno(1,2,3-cd)pyrene	25.157	276	12159	0.384	ng	# 90
37) Benzo(b)fluoranthene	22.487	252	11451	0.429	ng	# 95
38) Benzo(k)fluoranthene	22.528	252	11422	0.428	ng	# 95
39) Benzo(a)pyrene	23.014	252	9865	0.420	ng	# 94
40) Dibenzo(a,h)anthracene	25.177	278	9332	0.372	ng	# 89
41) Benzo(g,h,i)perylene	25.776	276	10046	0.377	ng	# 89

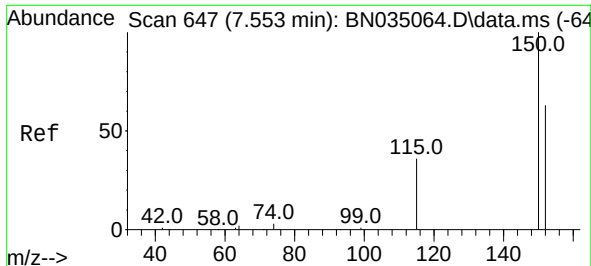
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035219.D
Acq On : 21 Nov 2024 13:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

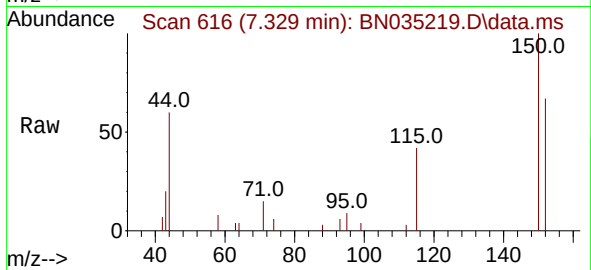
Quant Time: Nov 21 14:33:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



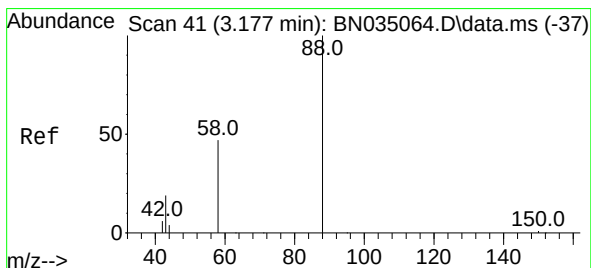
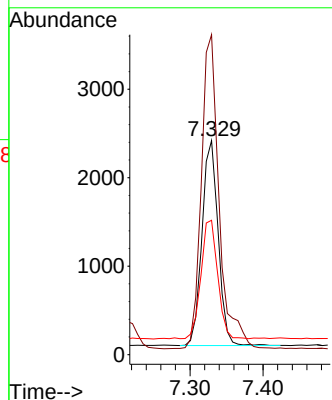
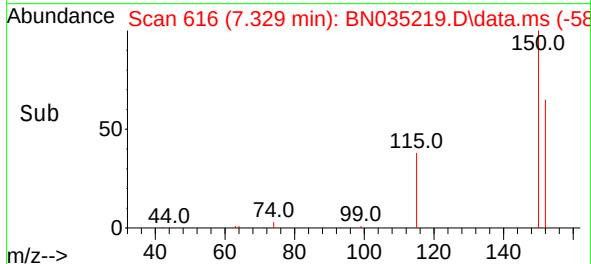


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

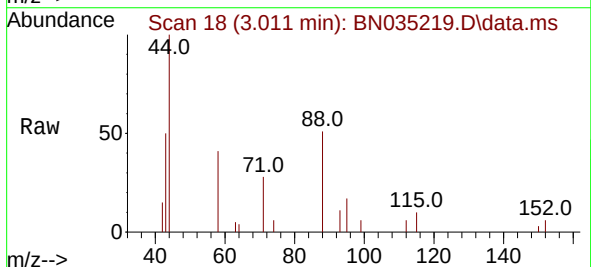
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



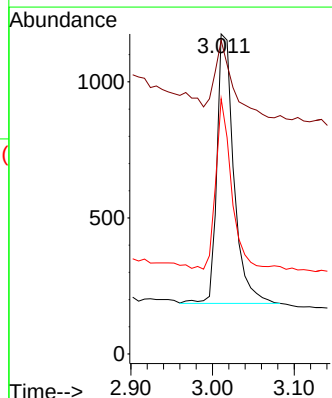
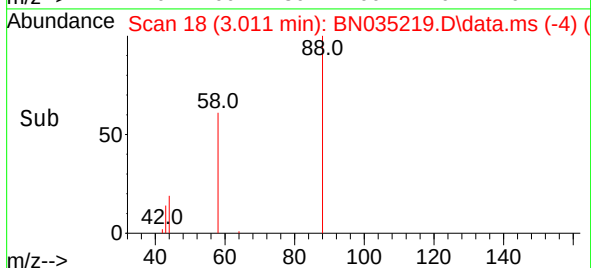
Tgt Ion:152 Resp: 3553
Ion Ratio Lower Upper
152 100
150 149.5 124.5 186.7
115 62.8 47.8 71.6

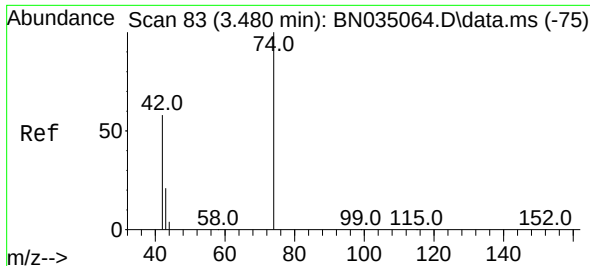


#2
1,4-Dioxane
Concen: 0.443 ng
RT: 3.011 min Scan# 18
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22



Tgt Ion: 88 Resp: 1431
Ion Ratio Lower Upper
88 100
43 30.7 16.9 25.3#
58 57.5 39.0 58.4

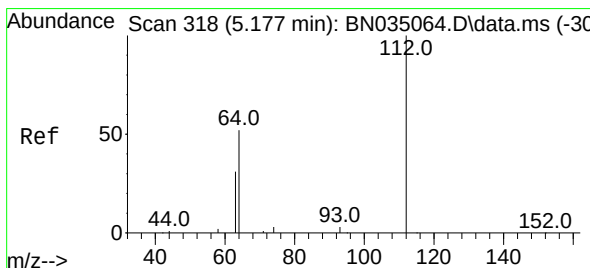
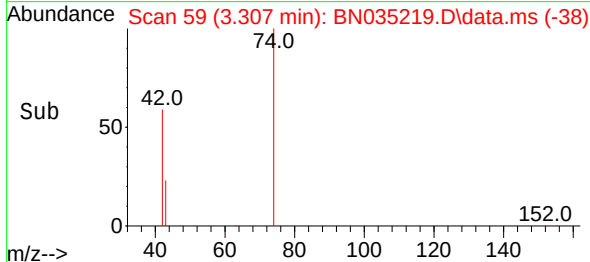
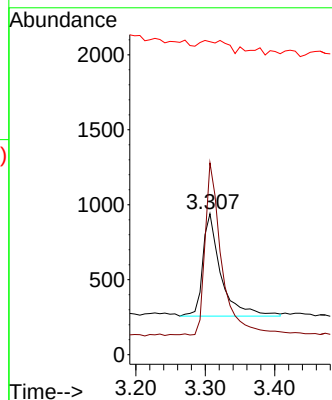
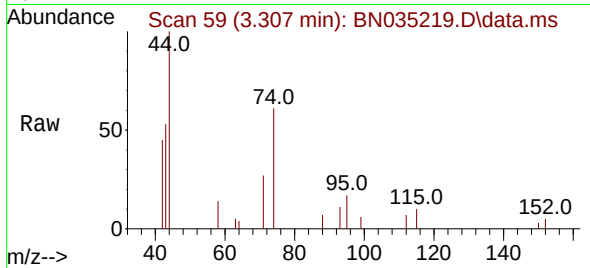




#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.307 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

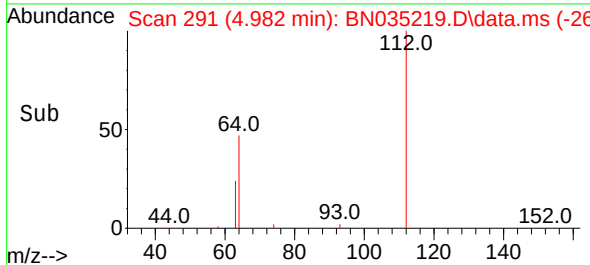
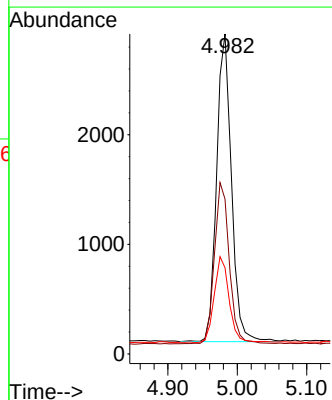
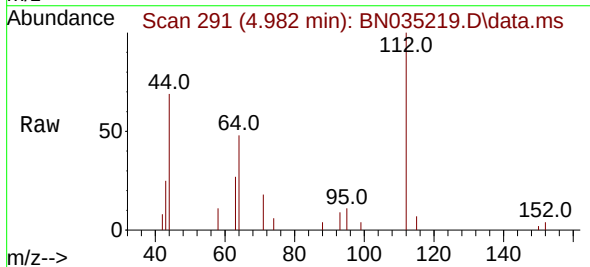
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

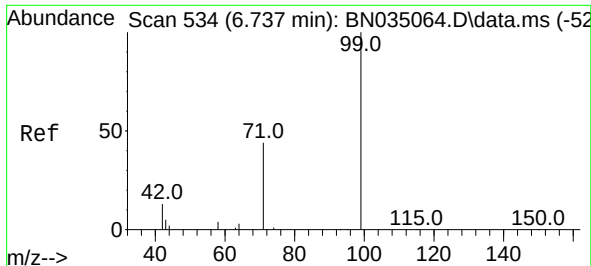
Tgt Ion: 42 Resp: 1242
Ion Ratio Lower Upper
42 100
74 153.3 120.8 181.2
44 18.3 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.462 ng
RT: 4.982 min Scan# 291
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion: 112 Resp: 4170
Ion Ratio Lower Upper
112 100
64 52.4 39.7 59.5
63 27.9 23.0 34.4

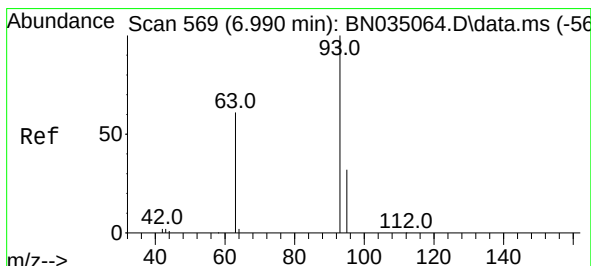
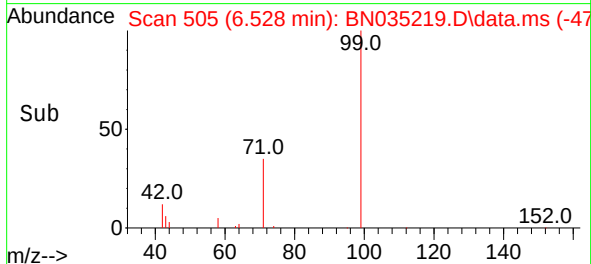
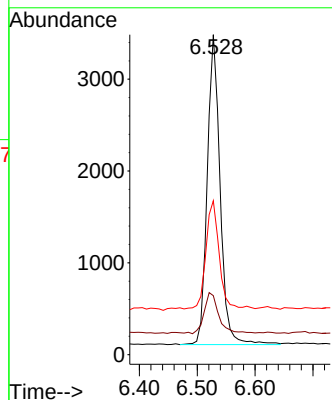
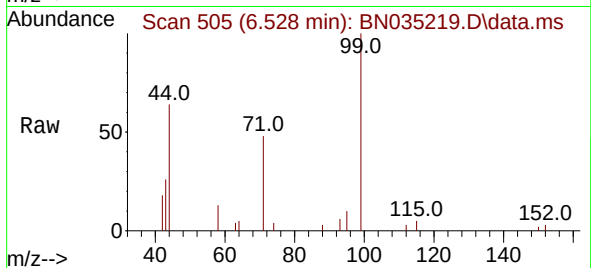




#5
Phenol-d6
Concen: 0.463 ng
RT: 6.528 min Scan# 505
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

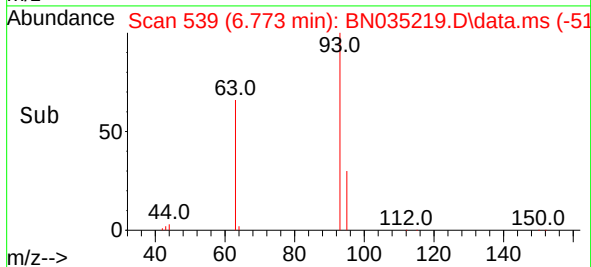
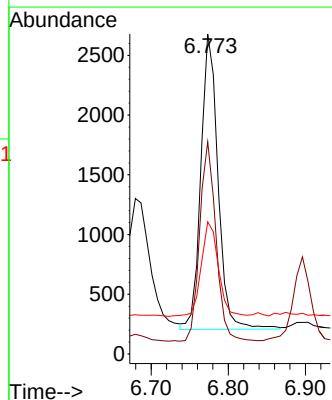
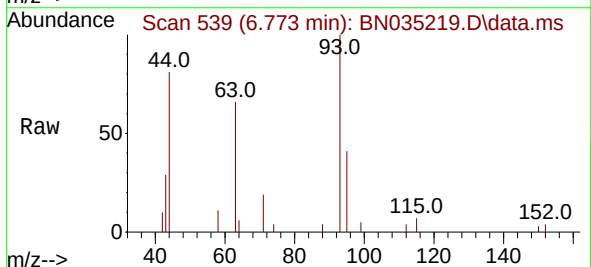
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

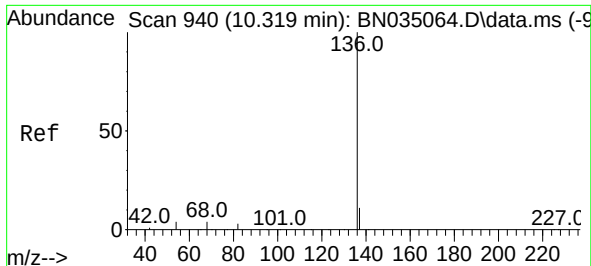
Tgt Ion: 99 Resp: 5231
Ion Ratio Lower Upper
99 100
42 14.2 11.4 17.0
71 37.0 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.450 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion: 93 Resp: 3817
Ion Ratio Lower Upper
93 100
63 63.9 47.4 71.2
95 31.9 26.2 39.4

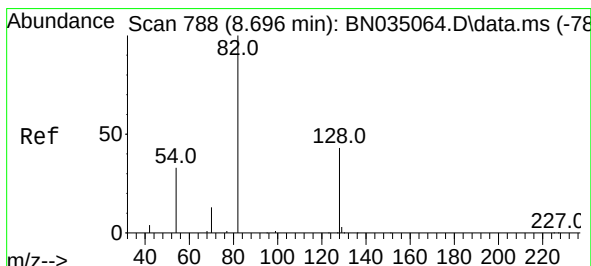
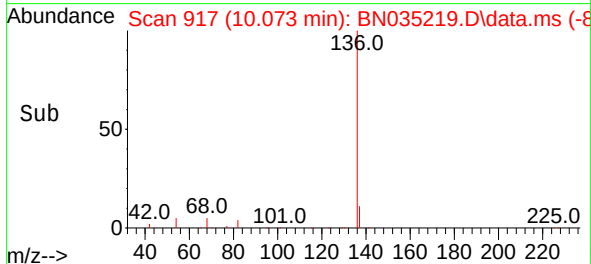
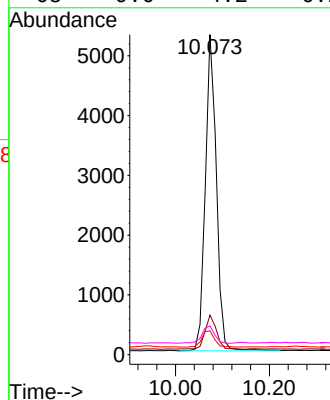
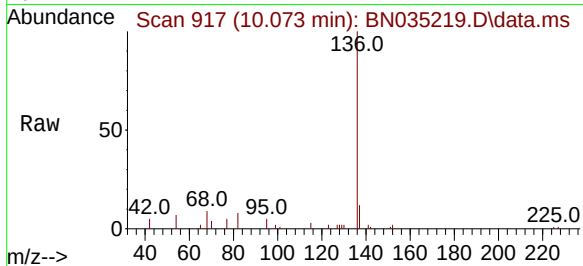




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

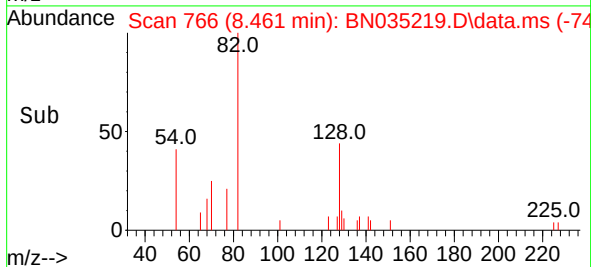
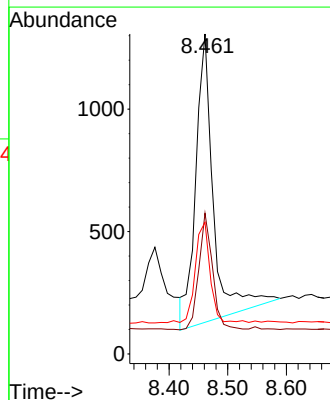
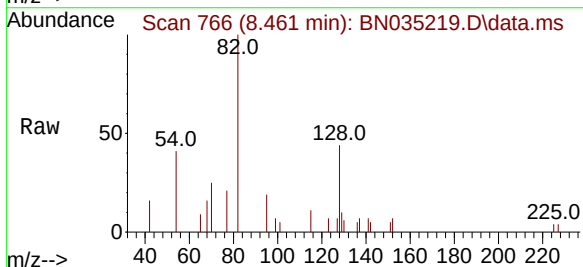
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

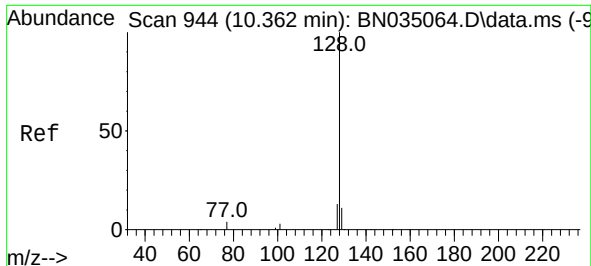
Tgt Ion:136	Resp:	8594
Ion Ratio	Lower	Upper
136	100	
137	12.3	9.8 14.8
54	7.4	4.0 6.0#
68	9.0	4.2 6.2#



#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.461 min Scan# 766
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion: 82	Resp:	2473
Ion Ratio	Lower	Upper
82	100	
128	44.0	36.5 54.7
54	41.2	28.7 43.1

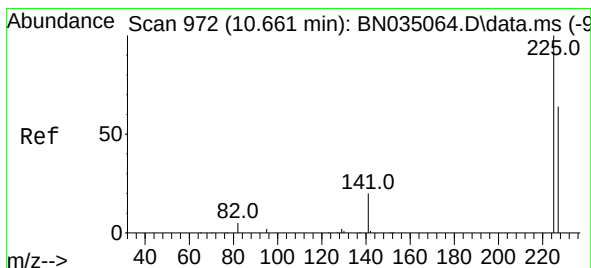
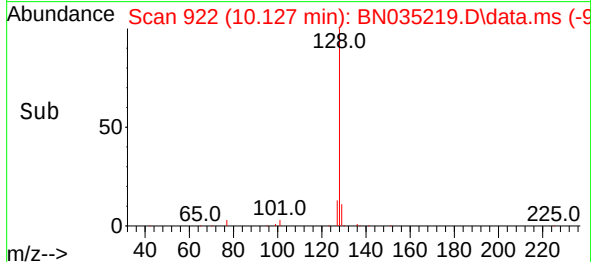
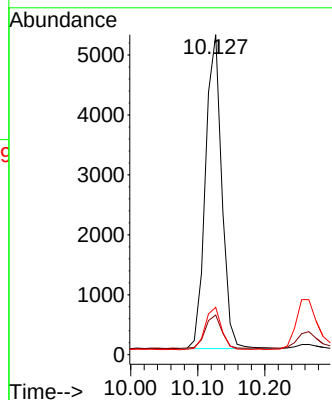
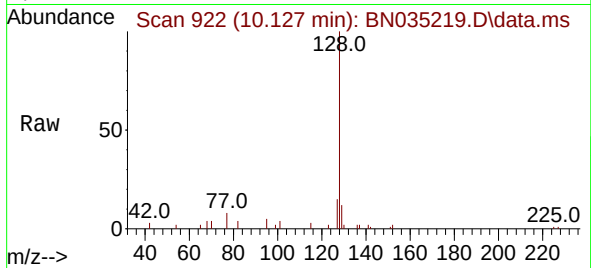




#9
Naphthalene
Concen: 0.393 ng
RT: 10.127 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

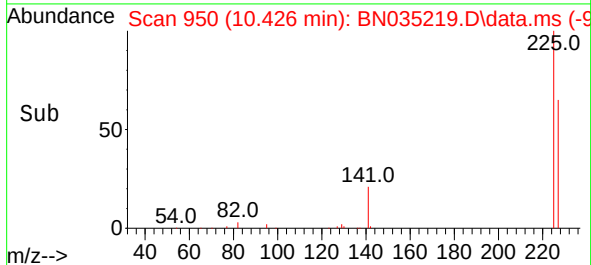
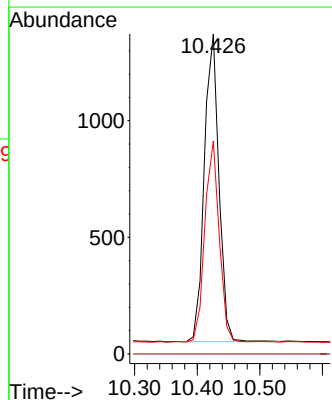
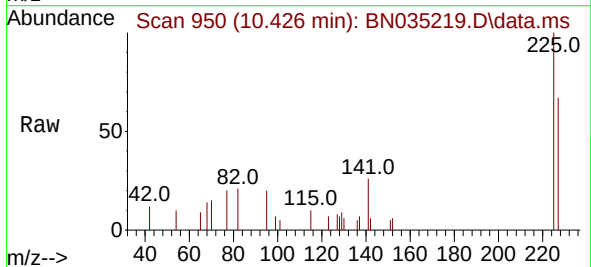
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

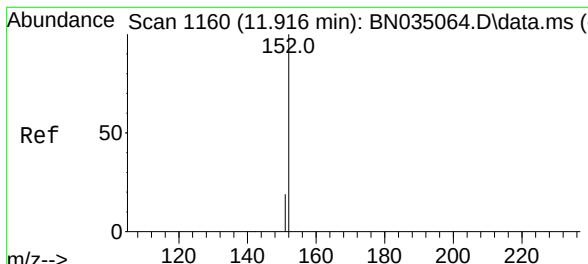
Tgt Ion:128 Resp: 8813
Ion Ratio Lower Upper
128 100
129 12.4 9.6 14.4
127 14.8 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.324 ng
RT: 10.426 min Scan# 950
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:225 Resp: 2134
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.5 77.3



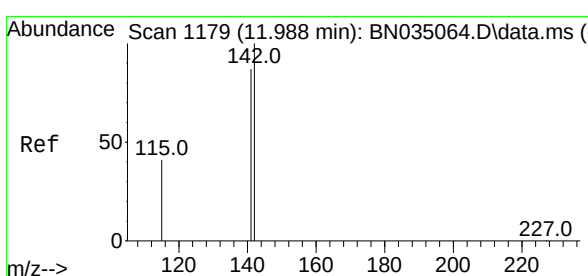
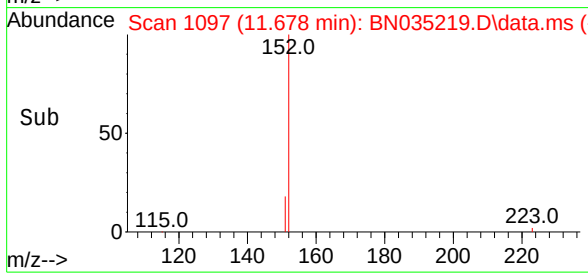
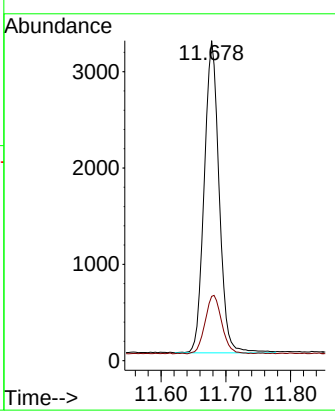
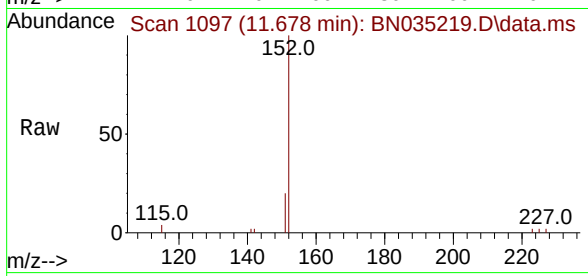


#11
 2-Methylnaphthalene-d10
 Concen: 0.339 ng
 RT: 11.678 min Scan# 1109
 Delta R.T. 0.000 min
 Lab File: BN035219.D
 Acq: 21 Nov 2024 13:22

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion:152 Resp: 5187

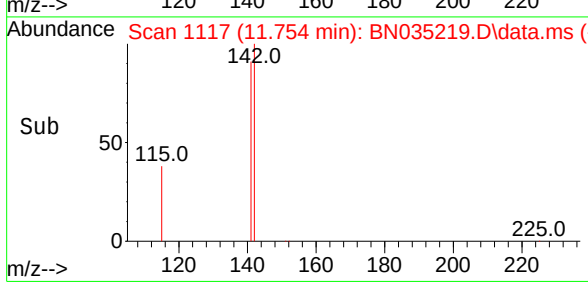
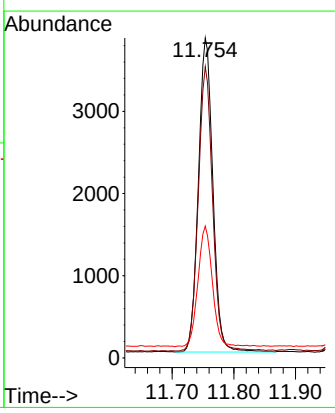
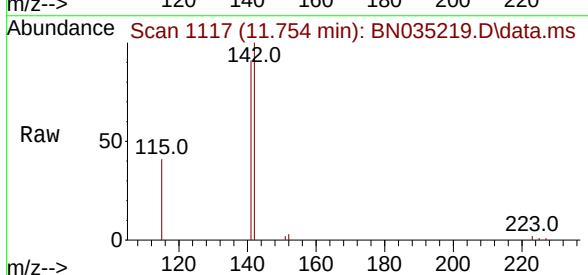
Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.2	24.4

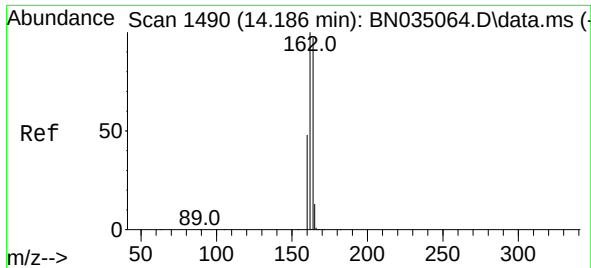


#12
 2-Methylnaphthalene
 Concen: 0.377 ng
 RT: 11.754 min Scan# 1117
 Delta R.T. 0.000 min
 Lab File: BN035219.D
 Acq: 21 Nov 2024 13:22

Tgt Ion:142 Resp: 6233

Ion	Ratio	Lower	Upper
142	100		
141	91.0	70.1	105.1
115	41.2	34.4	51.6

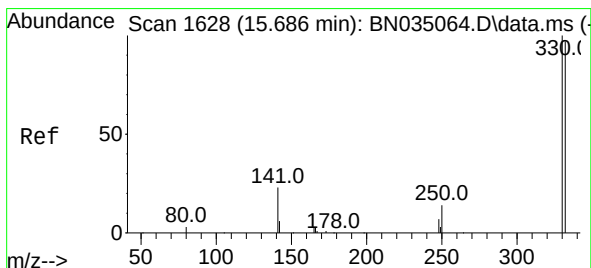
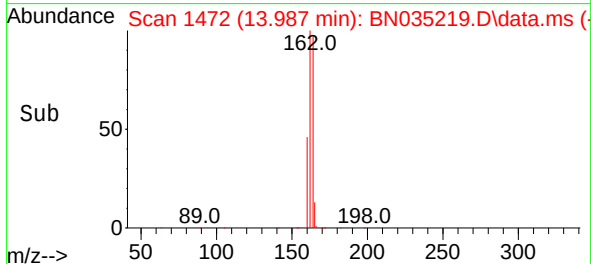
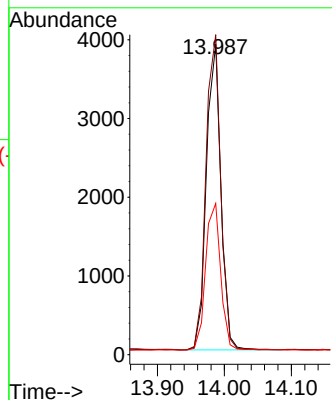
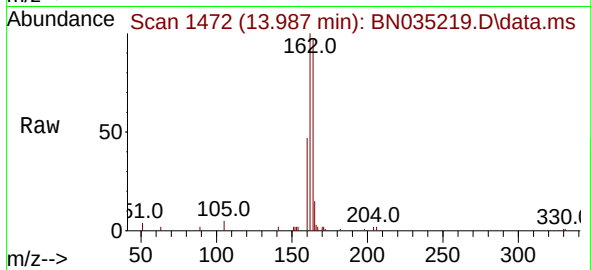




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.987 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

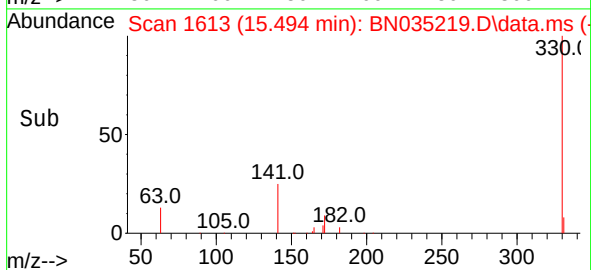
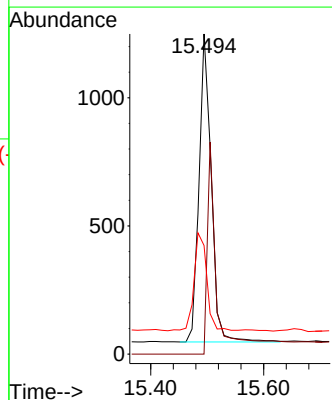
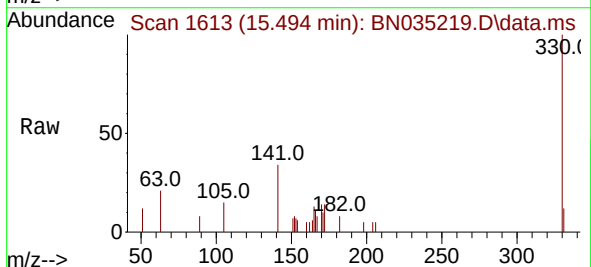
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

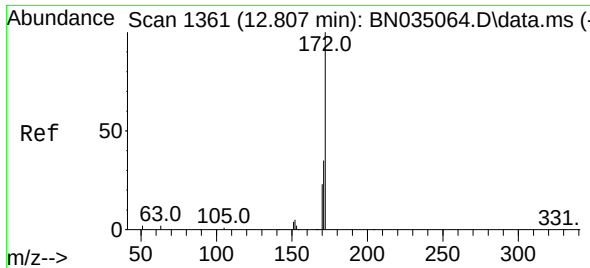
Tgt Ion:164 Resp: 5839
Ion Ratio Lower Upper
164 100
162 103.1 82.2 123.2
160 48.7 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.458 ng
RT: 15.494 min Scan# 1613
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:330 Resp: 1931
Ion Ratio Lower Upper
330 100
332 57.9 76.9 115.3#
141 0.0 29.6 44.4#

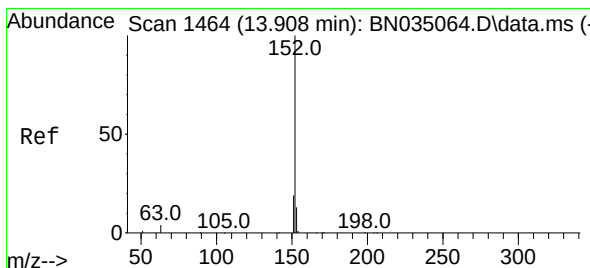
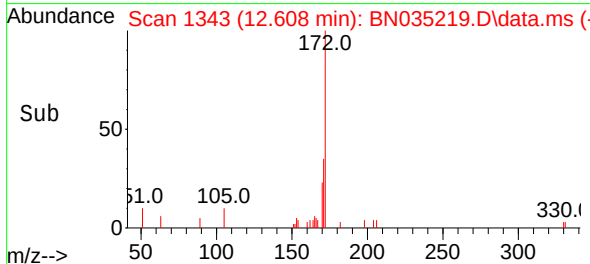
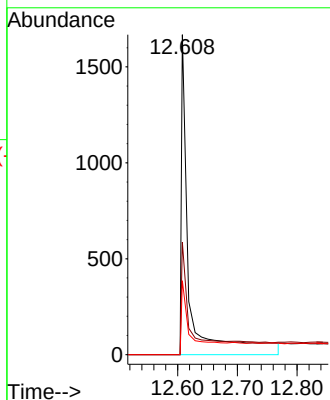
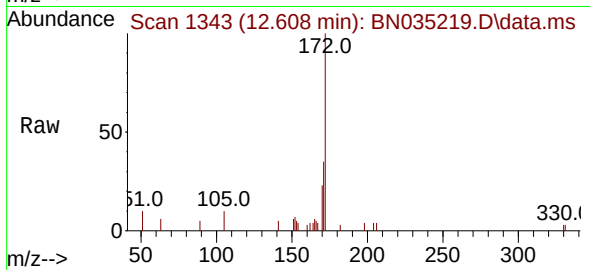




#15
2-Fluorobiphenyl
Concen: 0.074 ng
RT: 12.608 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

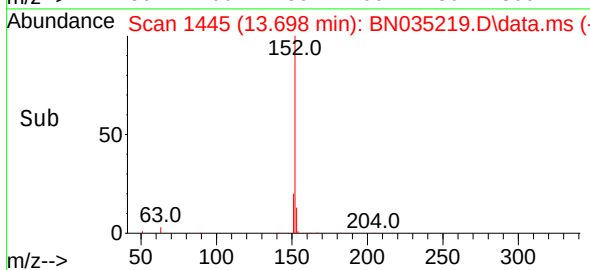
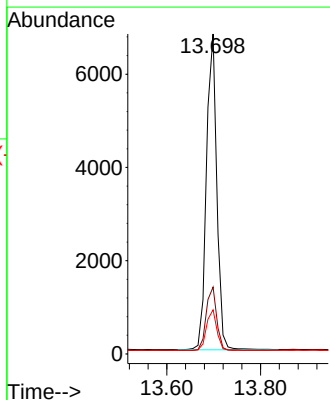
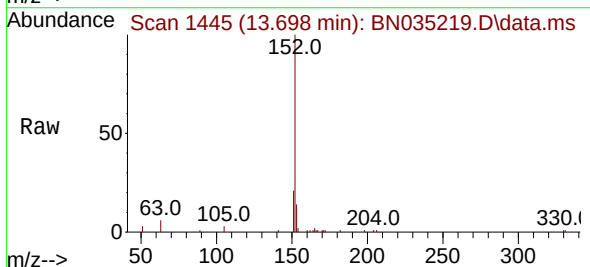
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

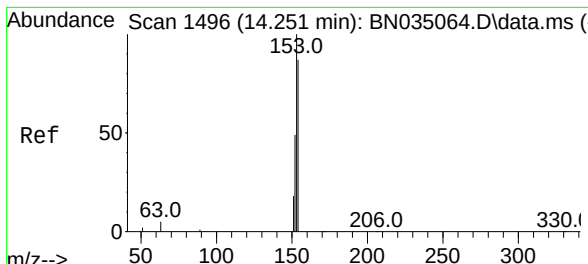
Tgt Ion:	172	Resp:	1744
Ion Ratio	Lower	Upper	
172	100		
171	35.1	28.2	42.4
170	23.1	19.0	28.6



#16
Acenaphthylene
Concen: 0.417 ng
RT: 13.698 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:	152	Resp:	10404
Ion Ratio	Lower	Upper	
152	100		
151	20.4	15.8	23.8
153	12.8	10.2	15.4



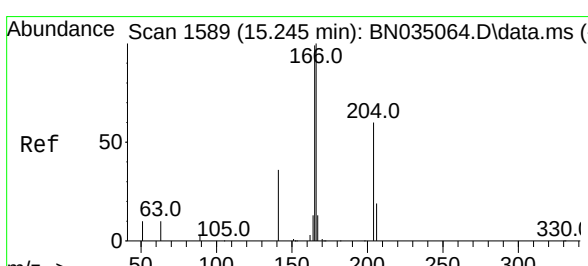
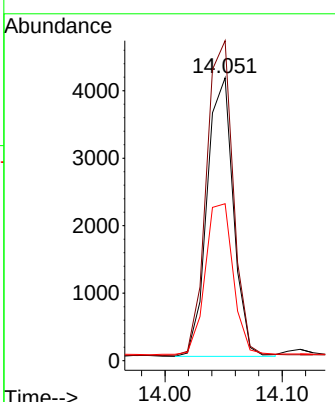
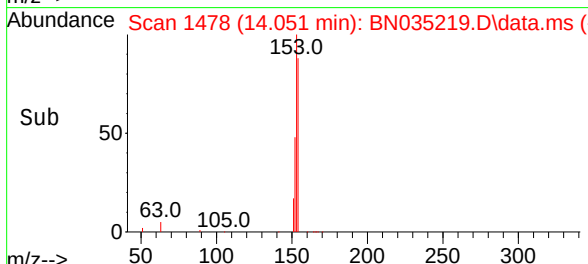
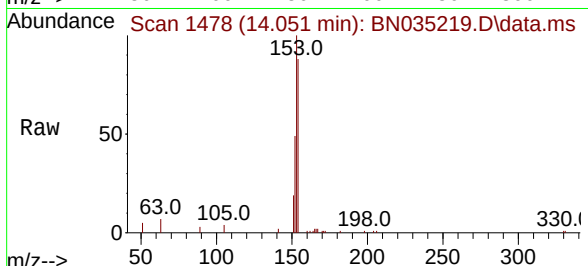


#17
 Acenaphthene
 Concen: 0.393 ng
 RT: 14.051 min Scan# 1496
 Delta R.T. 0.000 min
 Lab File: BN035219.D
 Acq: 21 Nov 2024 13:22

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

Tgt Ion:154 Resp: 6430

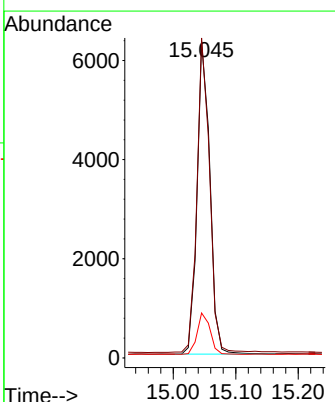
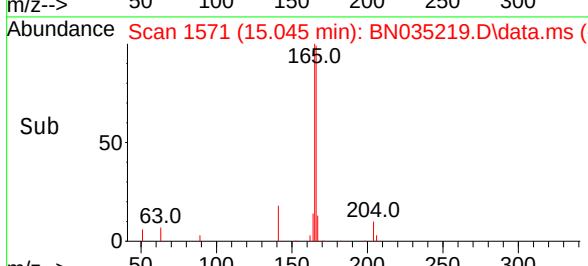
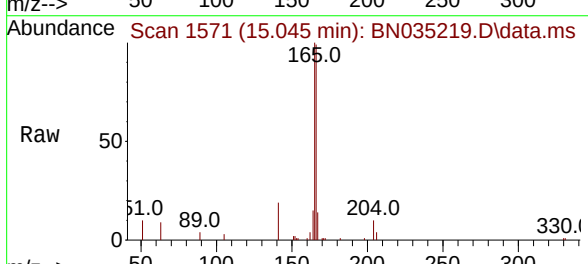
Ion	Ratio	Lower	Upper
154	100		
153	115.4	91.6	137.4
152	58.0	45.8	68.6

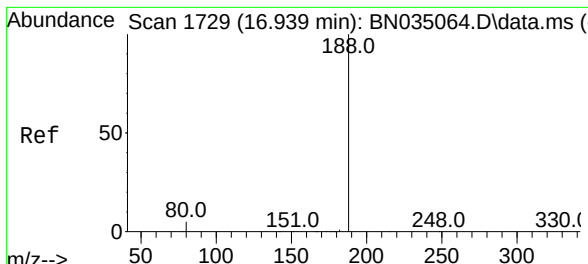


#18
 Fluorene
 Concen: 0.373 ng
 RT: 15.045 min Scan# 1571
 Delta R.T. 0.000 min
 Lab File: BN035219.D
 Acq: 21 Nov 2024 13:22

Tgt Ion:166 Resp: 8973

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.1	118.7
167	13.4	10.6	16.0

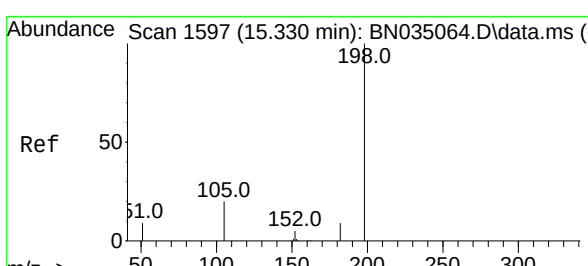
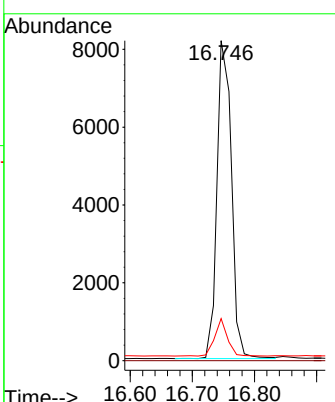
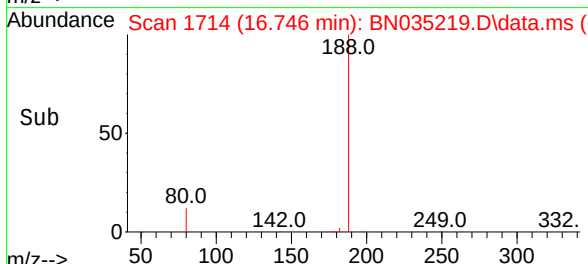
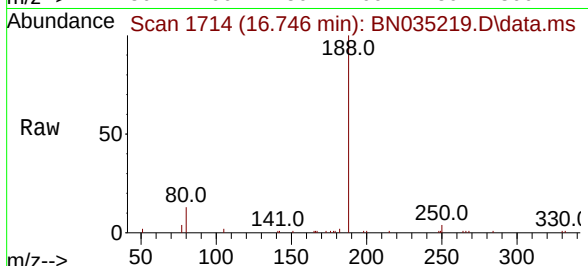




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.746 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN035219.D
 Acq: 21 Nov 2024 13:22

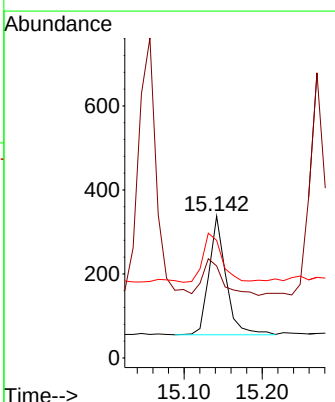
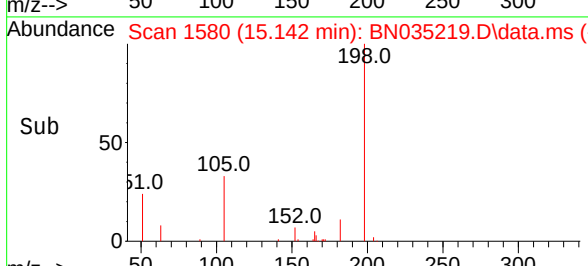
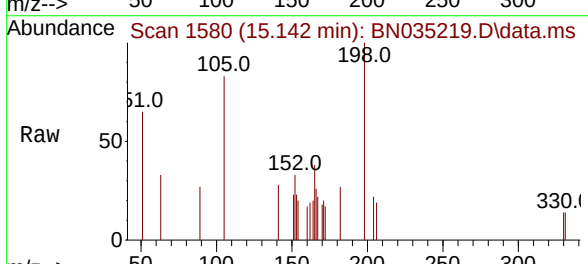
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

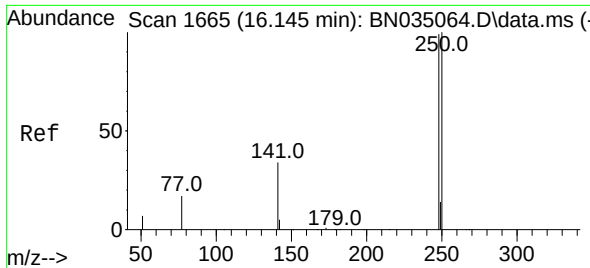
Tgt Ion:188	Resp:	13132
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	13.2	4.3



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.156 ng
 RT: 15.142 min Scan# 1580
 Delta R.T. 0.000 min
 Lab File: BN035219.D
 Acq: 21 Nov 2024 13:22

Tgt Ion:198	Resp:	427
Ion Ratio	Lower	Upper
198	100	
51	64.8	29.9
105	82.8	23.7

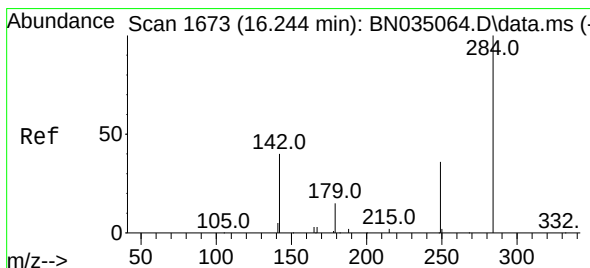
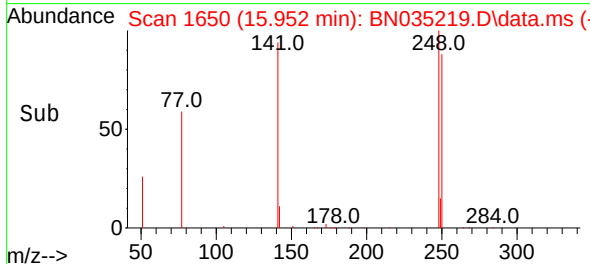
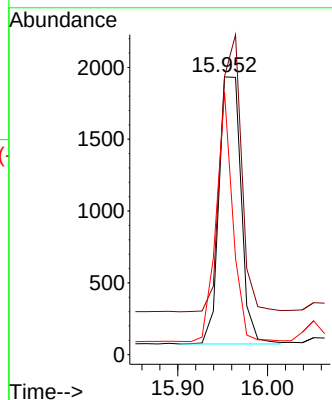
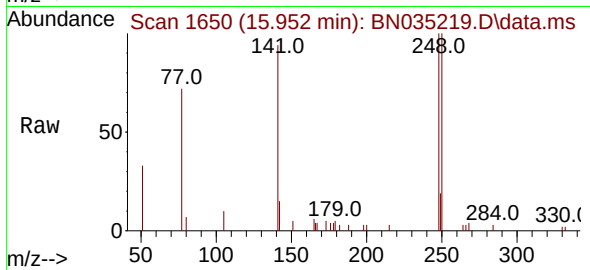




#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 15.952 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

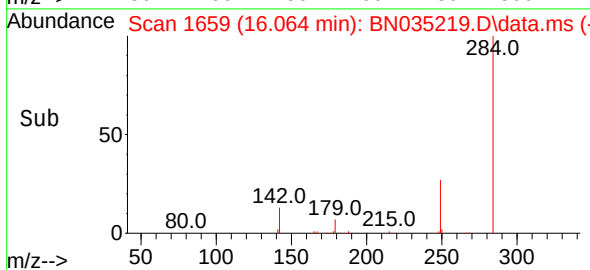
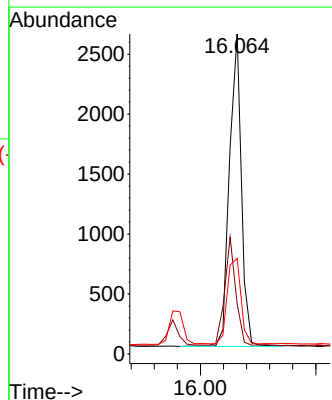
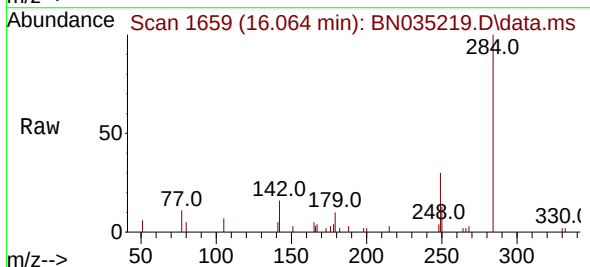
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

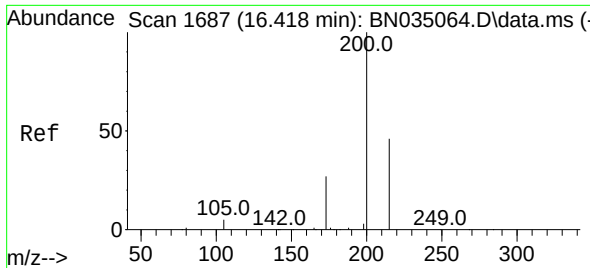
Tgt Ion:248 Resp: 3185
Ion Ratio Lower Upper
248 100
250 100.2 81.2 121.8
141 94.6 29.1 43.7#



#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 16.064 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:284 Resp: 3749
Ion Ratio Lower Upper
284 100
142 32.4 28.2 42.4
249 31.3 26.2 39.2

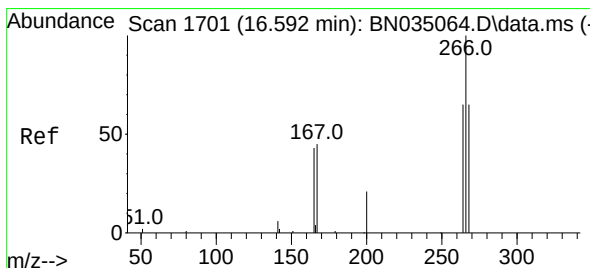
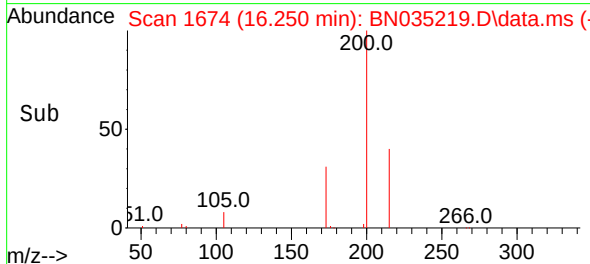
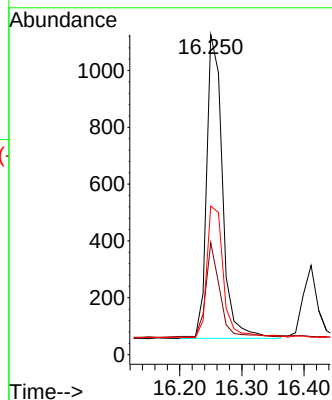
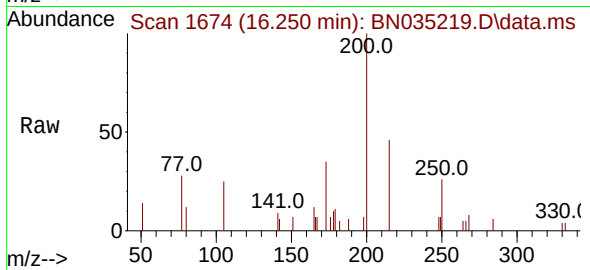




#23
Atrazine
Concen: 0.253 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

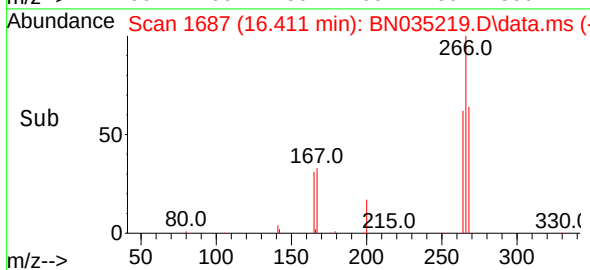
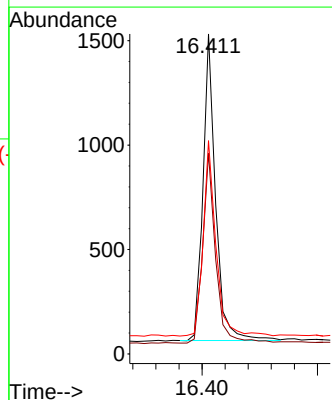
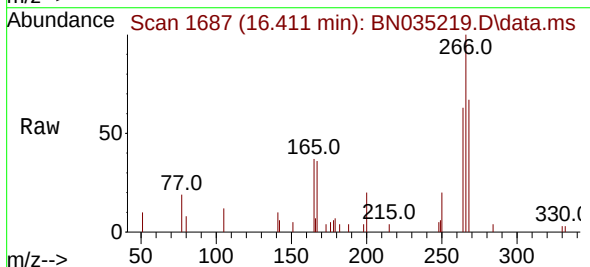
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

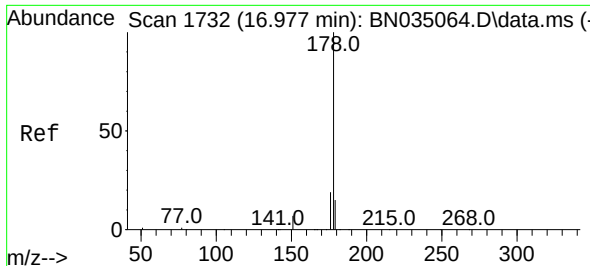
Tgt Ion:200 Resp: 1902
Ion Ratio Lower Upper
200 100
173 35.0 22.6 33.8#
215 46.4 37.8 56.6



#24
Pentachlorophenol
Concen: 0.551 ng
RT: 16.411 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:266 Resp: 2236
Ion Ratio Lower Upper
266 100
264 63.4 49.4 74.0
268 64.6 52.6 79.0





#25

Phenanthrene

Concen: 0.405 ng

RT: 16.796 min Scan# 1718

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

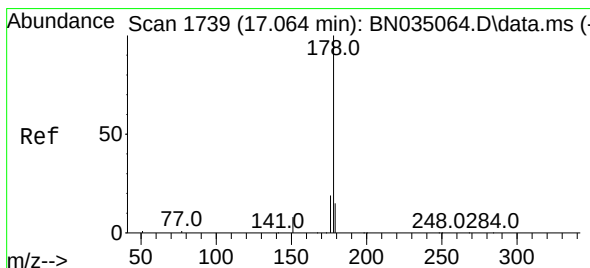
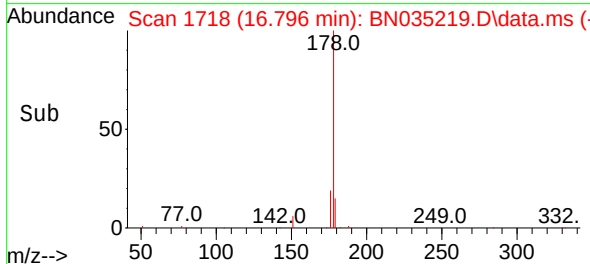
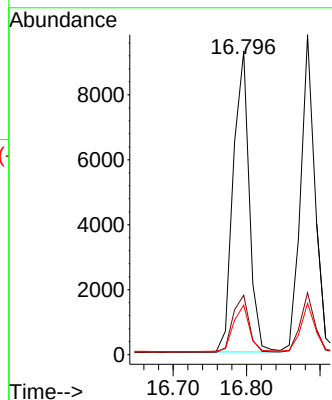
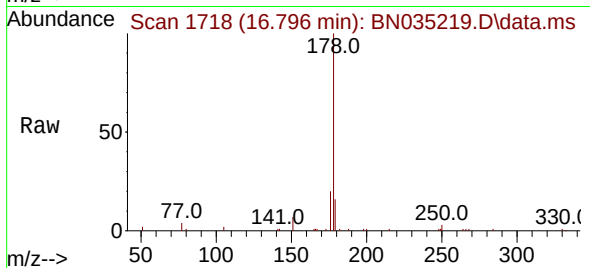
Tgt Ion:178 Resp: 13999

Ion Ratio Lower Upper

178 100

176 19.4 15.2 22.8

179 15.5 12.6 18.8



#26

Anthracene

Concen: 0.425 ng

RT: 16.883 min Scan# 1725

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

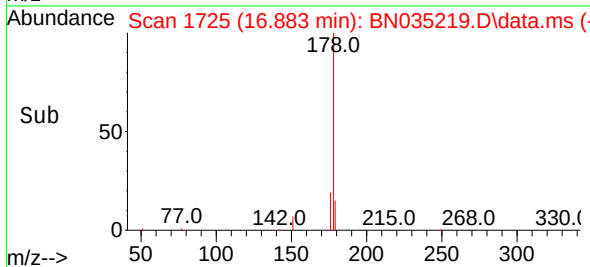
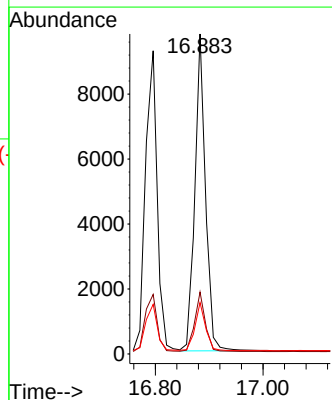
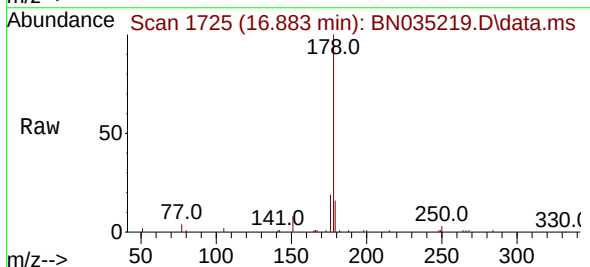
Tgt Ion:178 Resp: 13479

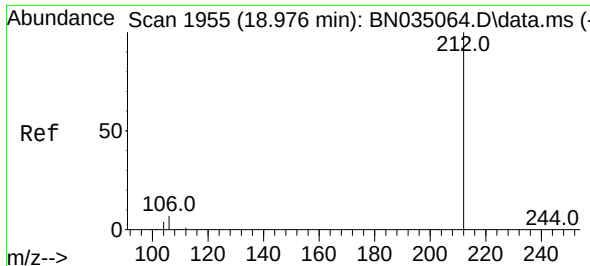
Ion Ratio Lower Upper

178 100

176 18.8 14.6 22.0

179 15.2 12.2 18.2

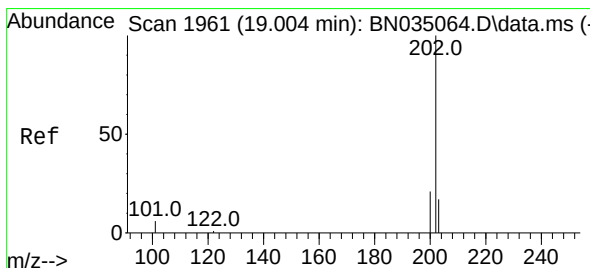
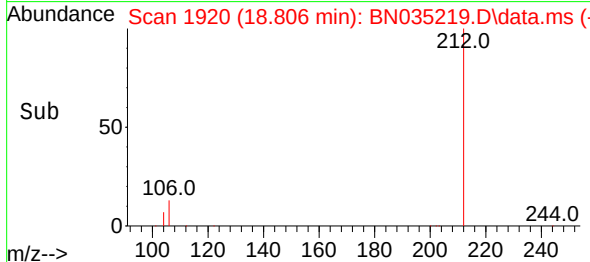
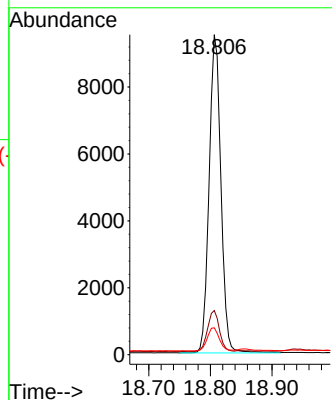
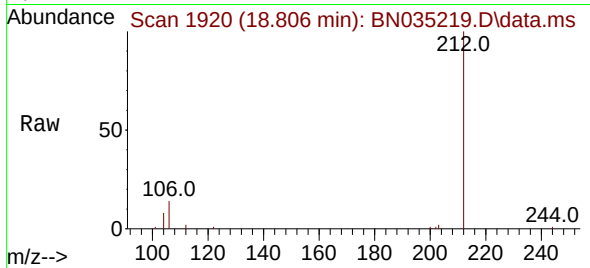




#27
Fluoranthene-d10
Concen: 0.312 ng
RT: 18.806 min Scan# 1920
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

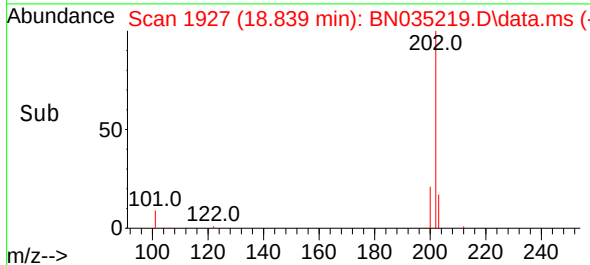
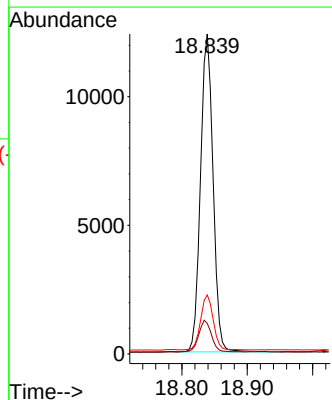
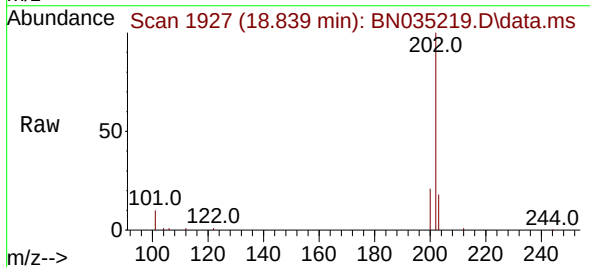
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

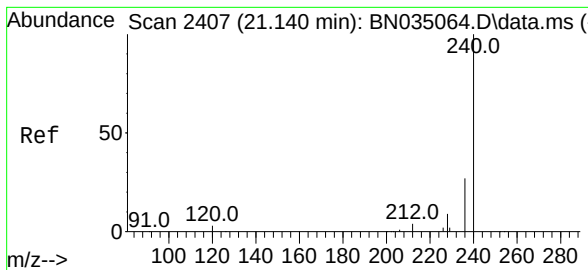
Tgt Ion:212 Resp: 12553
Ion Ratio Lower Upper
212 100
106 13.0 6.0 9.0#
104 7.5 3.5 5.3#



#28
Fluoranthene
Concen: 0.345 ng
RT: 18.839 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:202 Resp: 16410
Ion Ratio Lower Upper
202 100
101 10.1 5.2 7.8#
203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

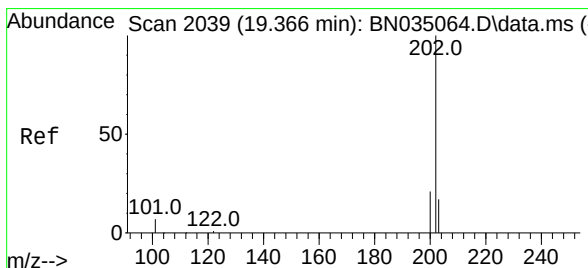
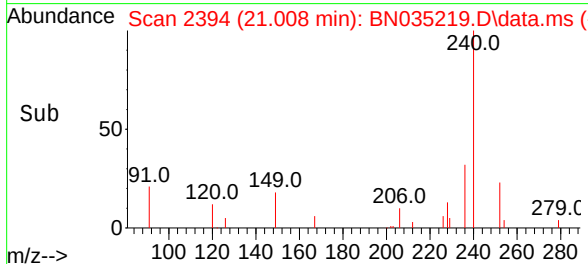
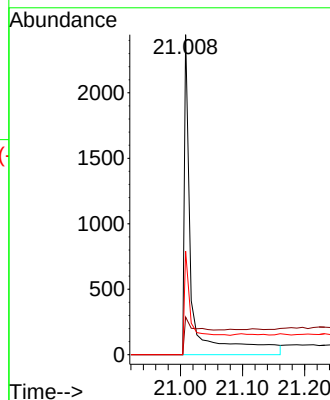
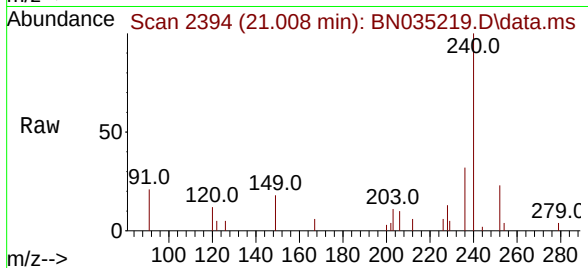
Tgt Ion:240 Resp: 2179

Ion Ratio Lower Upper

240 100

120 11.7 3.8 5.6#

236 32.4 22.2 33.2



#30

Pyrene

Concen: 2.306 ng

RT: 19.206 min Scan# 2006

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

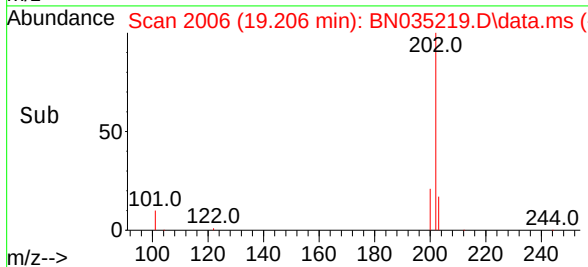
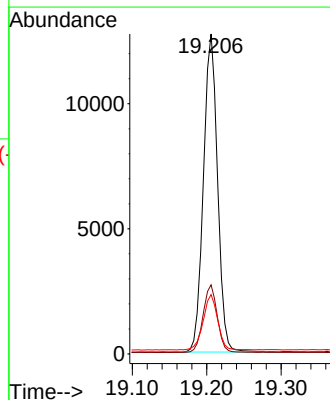
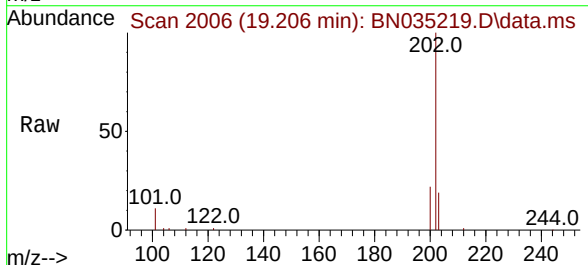
Tgt Ion:202 Resp: 16732

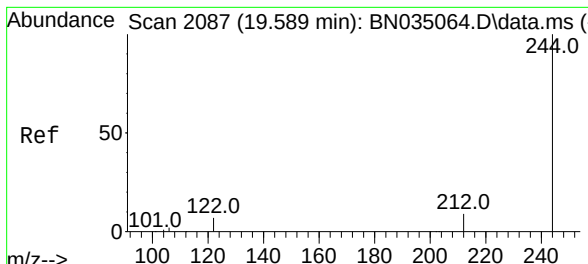
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 17.8 14.2 21.4

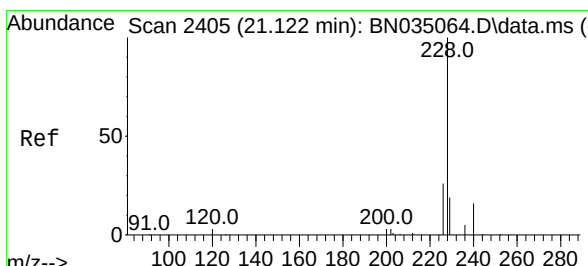
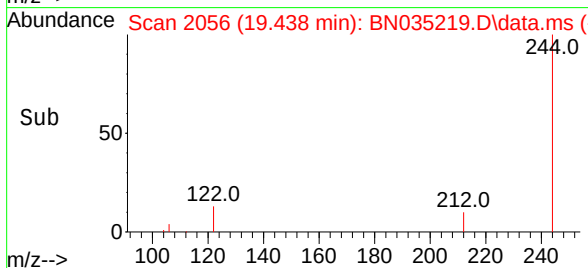
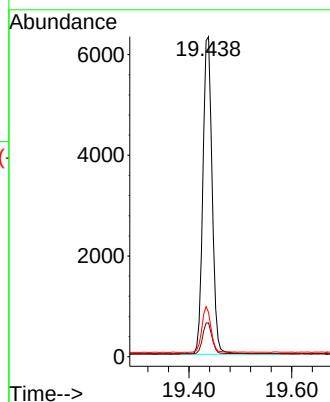
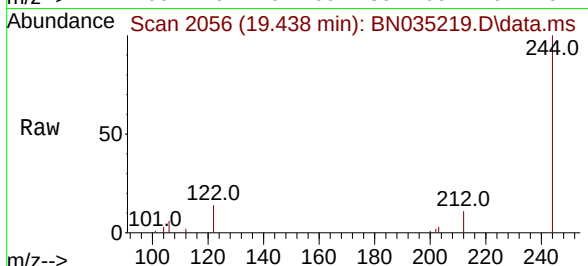




#31
Terphenyl-d14
Concen: 1.730 ng
RT: 19.438 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

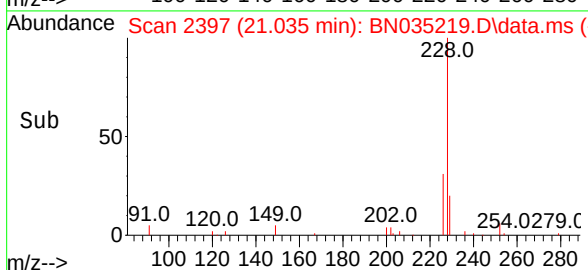
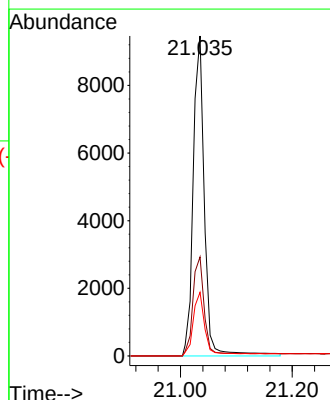
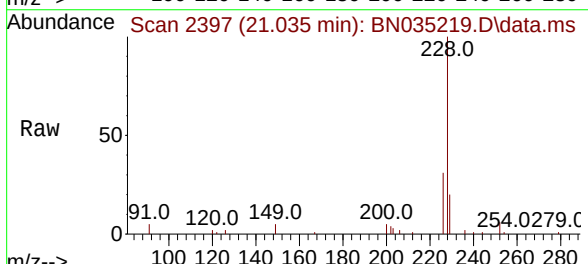
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

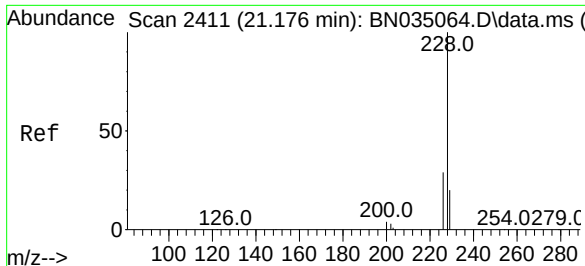
Tgt Ion:244 Resp: 7908
Ion Ratio Lower Upper
244 100
212 10.5 7.6 11.4
122 13.8 6.1 9.1#



#32
Benzo(a)anthracene
Concen: 1.669 ng
RT: 21.035 min Scan# 2397
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:228 Resp: 12666
Ion Ratio Lower Upper
228 100
226 30.9 21.4 32.0
229 19.9 15.7 23.5





#33

Chrysene

Concen: 1.685 ng

RT: 21.035 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

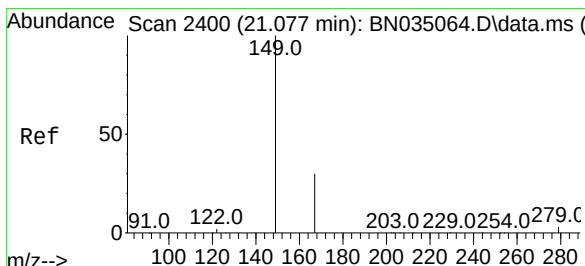
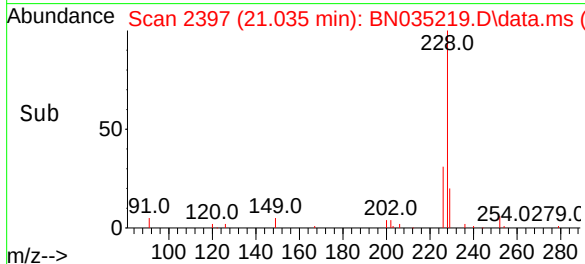
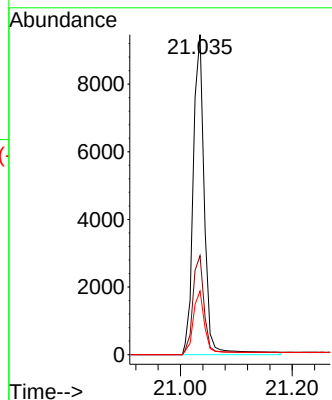
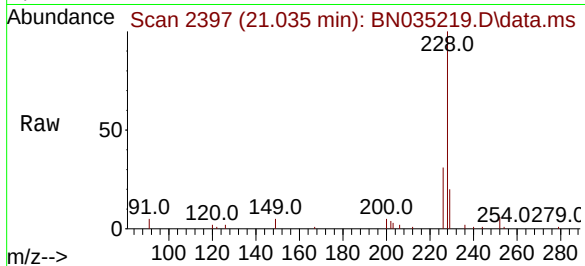
Tgt Ion:228 Resp: 12666

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

229 19.9 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.302 ng

RT: 21.026 min Scan# 2396

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

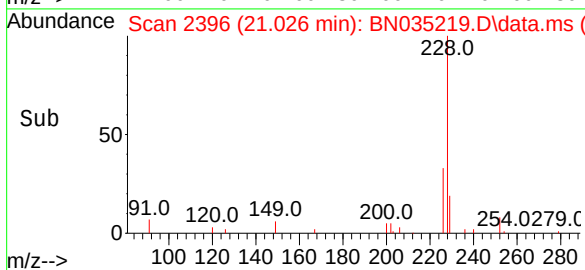
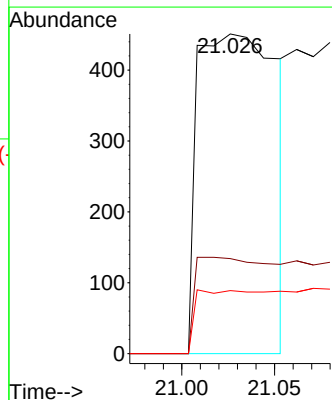
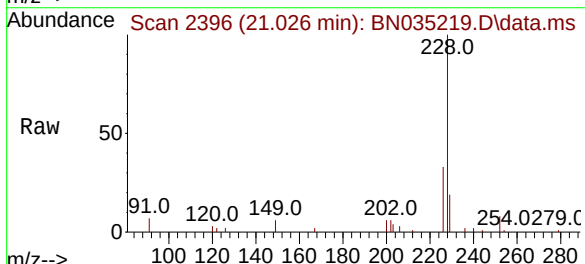
Tgt Ion:149 Resp: 1204

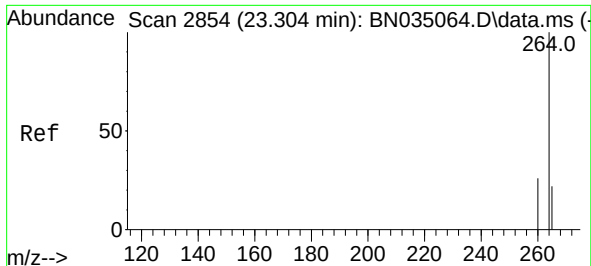
Ion Ratio Lower Upper

149 100

167 30.3 23.2 34.8

279 16.4 3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.104 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

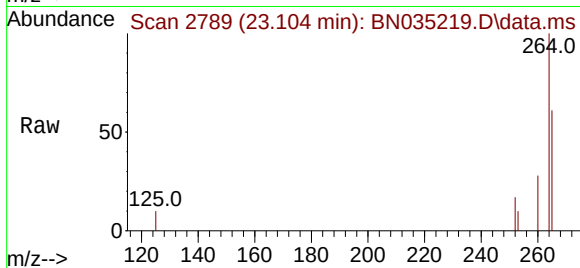
Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



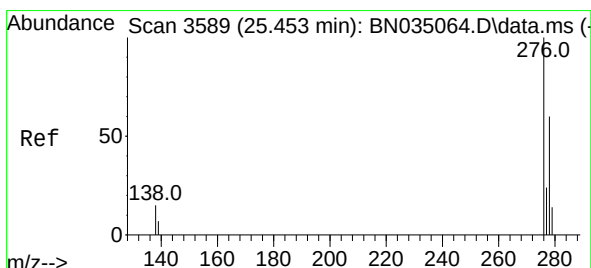
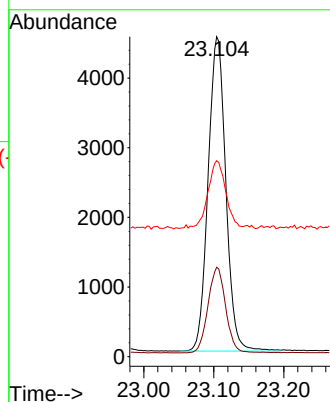
Tgt Ion:264 Resp: 7936

Ion Ratio Lower Upper

264 100

260 27.9 20.9 31.3

265 61.2 35.4 53.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.384 ng

RT: 25.157 min Scan# 3491

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

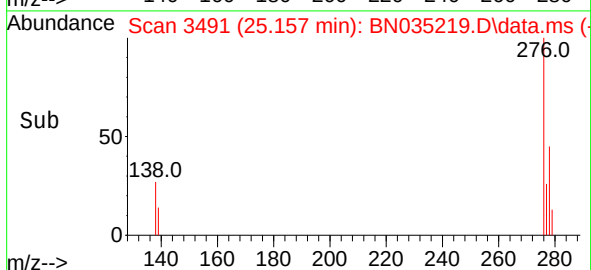
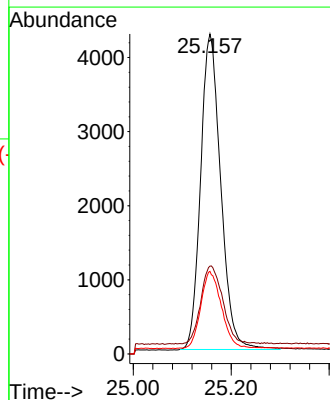
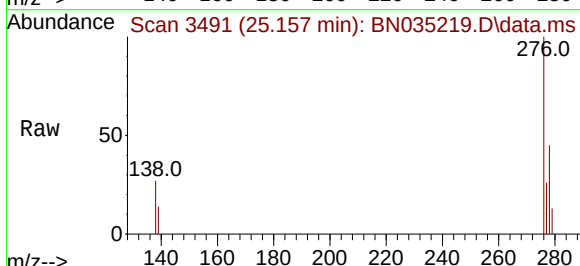
Tgt Ion:276 Resp: 12159

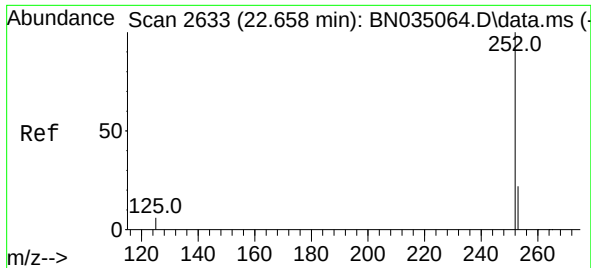
Ion Ratio Lower Upper

276 100

138 25.9 13.0 19.4#

277 24.1 19.8 29.6

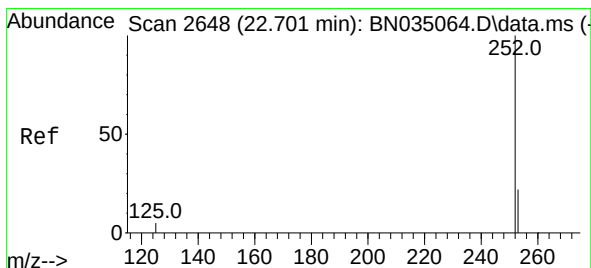
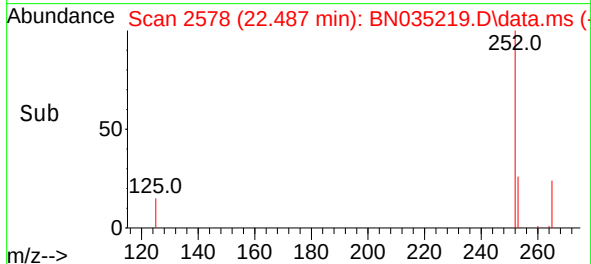
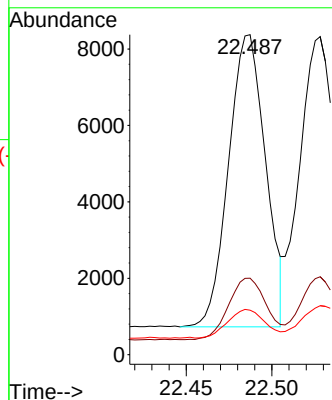
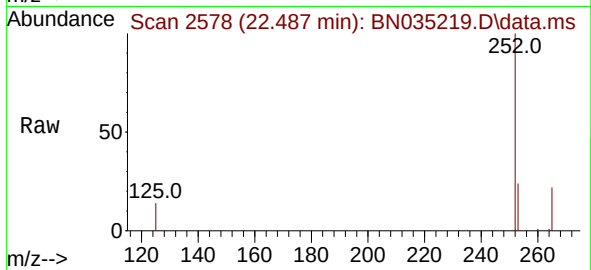




#37
Benzo(b)fluoranthene
Concen: 0.429 ng
RT: 22.487 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

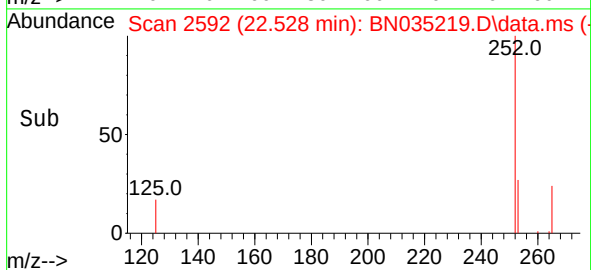
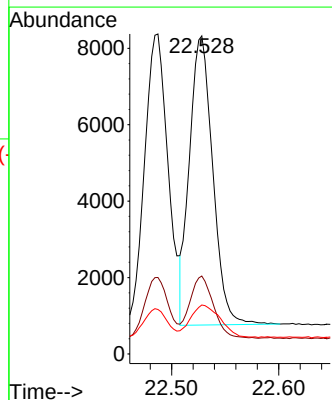
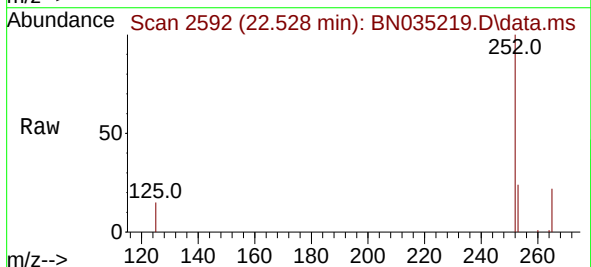
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

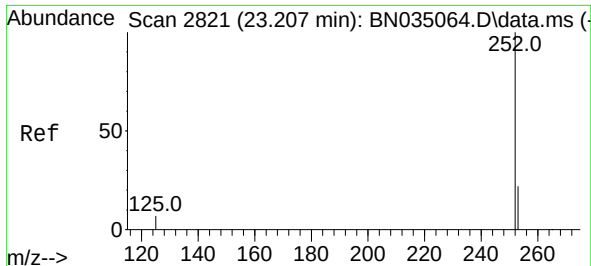
Tgt Ion:252 Resp: 11451
Ion Ratio Lower Upper
252 100
253 23.9 19.3 28.9
125 13.9 6.2 9.2#



#38
Benzo(k)fluoranthene
Concen: 0.428 ng
RT: 22.528 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Tgt Ion:252 Resp: 11422
Ion Ratio Lower Upper
252 100
253 24.5 19.5 29.3
125 15.4 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.014 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

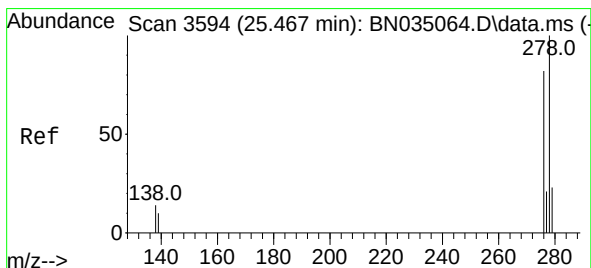
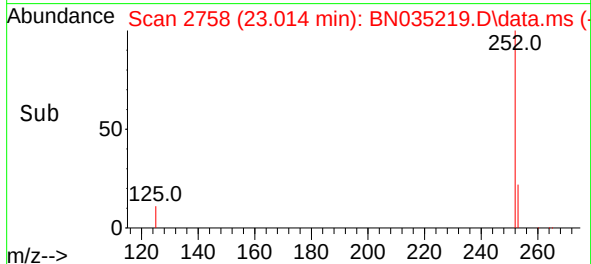
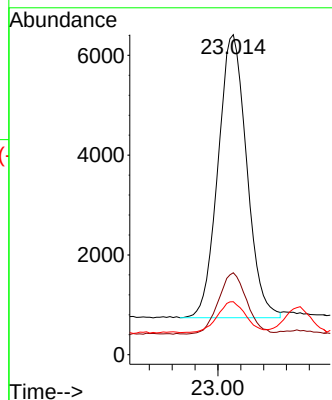
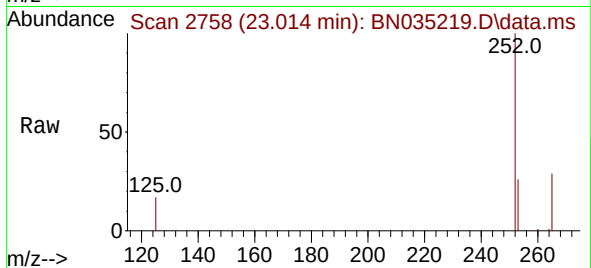
Tgt Ion:252 Resp: 9865

Ion Ratio Lower Upper

252 100

253 25.6 20.1 30.1

125 16.6 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

RT: 25.177 min Scan# 3498

Delta R.T. 0.000 min

Lab File: BN035219.D

Acq: 21 Nov 2024 13:22

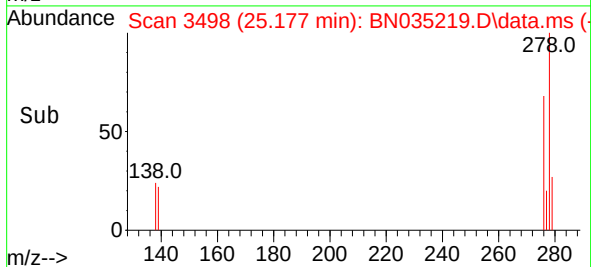
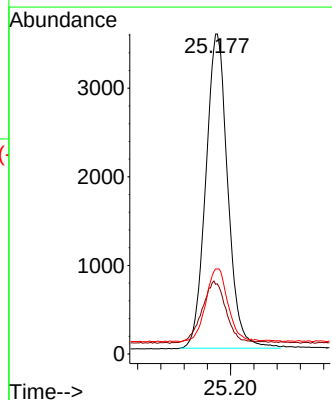
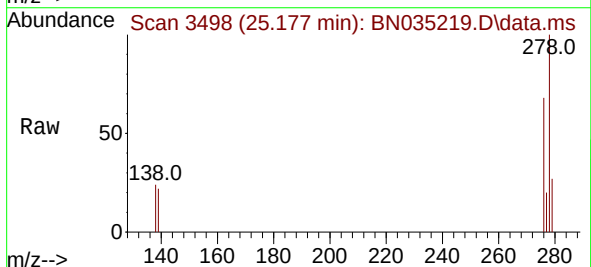
Tgt Ion:278 Resp: 9332

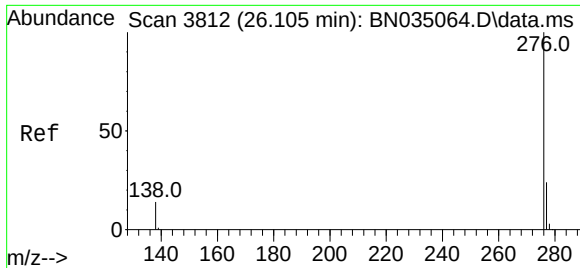
Ion Ratio Lower Upper

278 100

139 21.9 9.3 13.9#

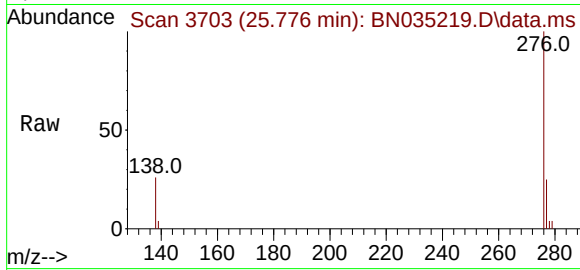
279 26.5 19.7 29.5



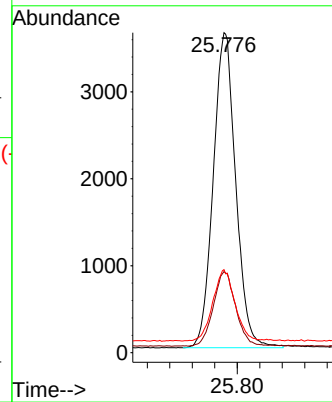
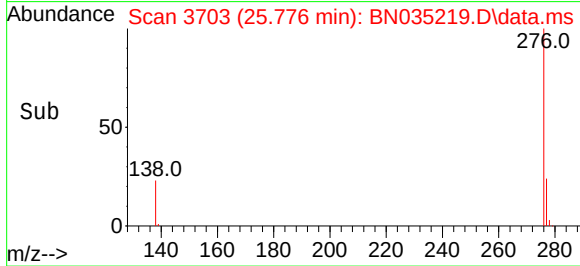


#41
Benzo(g,h,i)perylene
Concen: 0.377 ng
RT: 25.776 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN035219.D
Acq: 21 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:276 Resp: 10046
Ion Ratio Lower Upper
276 100
277 25.4 19.9 29.9
138 26.0 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035220.D
 Acq On : 21 Nov 2024 13:58
 Operator : RC/JU
 Sample : PB165012BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165012BL

Quant Time: Nov 21 14:34:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

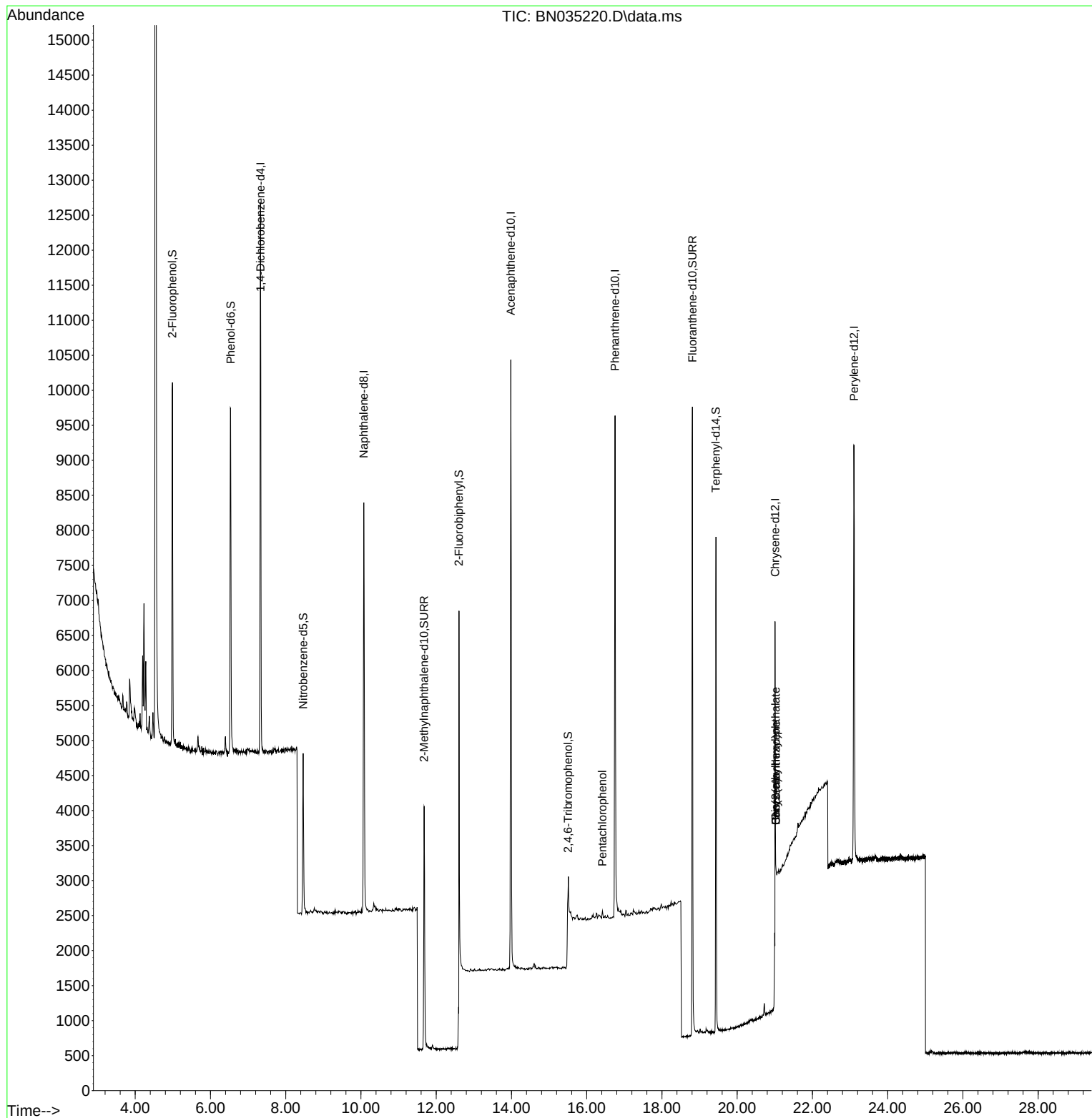
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3644	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	8156	0.400	ng	# 0.00
13) Acenaphthene-d10	13.983	164	4996	0.400	ng	0.00
19) Phenanthrene-d10	16.753	188	10325	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	2547	0.400	ng	# 0.00
35) Perylene-d12	23.105	264	7086	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.989	112	4122	0.446	ng	0.00
5) Phenol-d6	6.535	99	5198	0.448	ng	0.00
8) Nitrobenzene-d5	8.461	82	2515	0.354	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	5204	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.501	330	1065	0.295	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	3386	0.167	ng	0.00
27) Fluoranthene-d10	18.808	212	10530	0.333	ng	0.00
31) Terphenyl-d14	19.435	244	6913	1.293	ng	0.00
Target Compounds						
24) Pentachlorophenol	16.418	266	69	0.022	ng	Qvalue 95
32) Benzo(a)anthracene	21.033	228	253	0.029	ng	# 1
33) Chrysene	21.033	228	253	0.029	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.024	149	855	0.184	ng	# 97

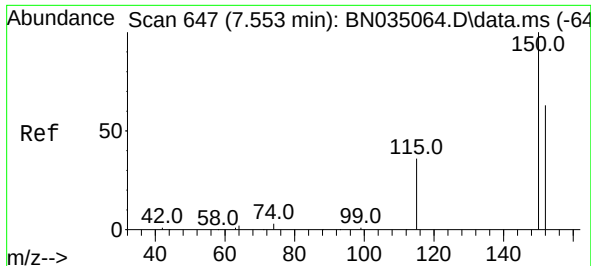
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035220.D
Acq On : 21 Nov 2024 13:58
Operator : RC/JU
Sample : PB165012BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165012BL

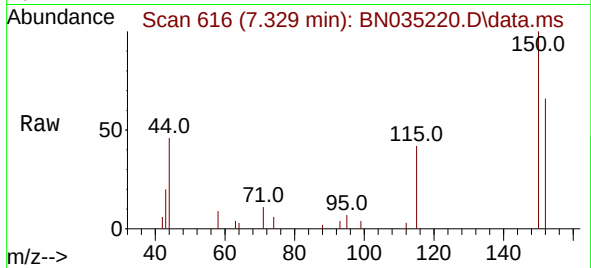
Quant Time: Nov 21 14:34:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



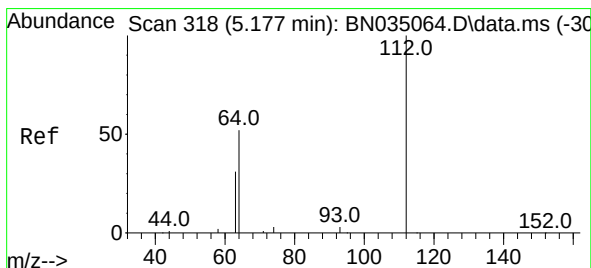
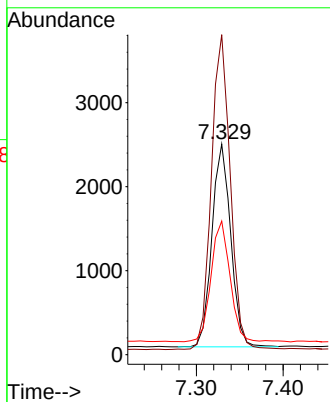
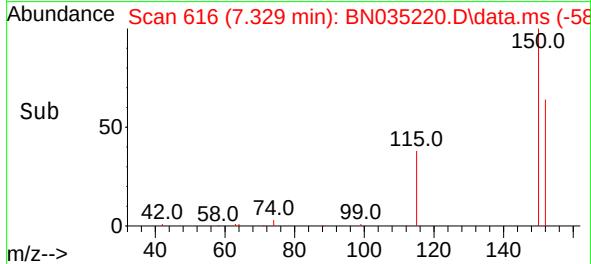


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

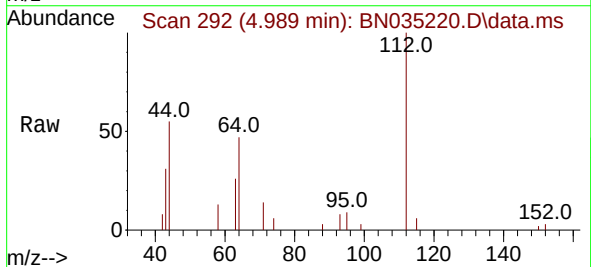
Instrument :
BNA_N
ClientSampleId :
PB165012BL



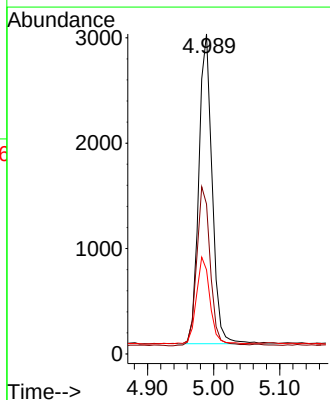
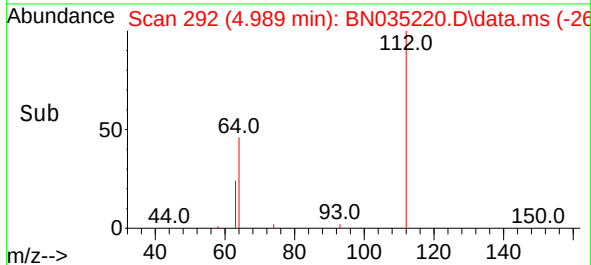
Tgt Ion:152 Resp: 3644
Ion Ratio Lower Upper
152 100
150 151.9 124.5 186.7
115 63.5 47.8 71.6

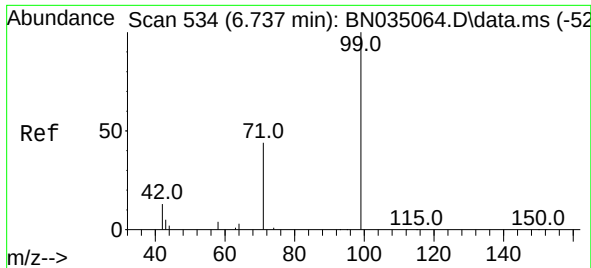


#4
2-Fluorophenol
Concen: 0.446 ng
RT: 4.989 min Scan# 292
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58



Tgt Ion:112 Resp: 4122
Ion Ratio Lower Upper
112 100
64 52.5 39.7 59.5
63 28.9 23.0 34.4

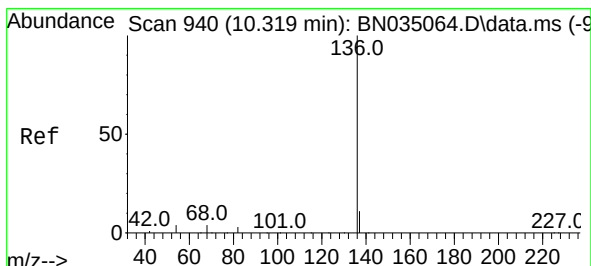
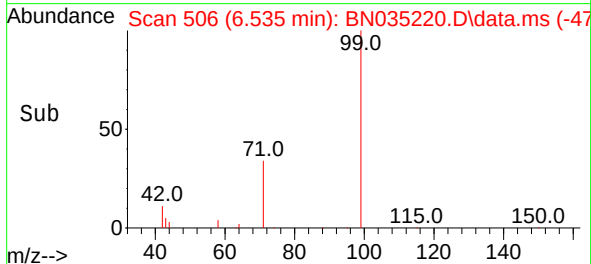
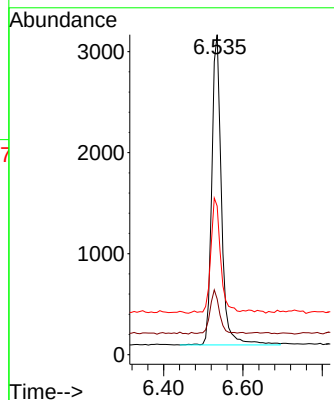
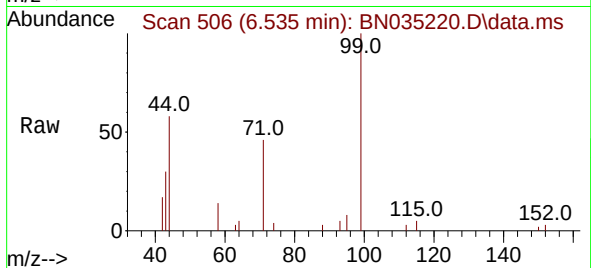




#5
Phenol-d6
Concen: 0.448 ng
RT: 6.535 min Scan# 50
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

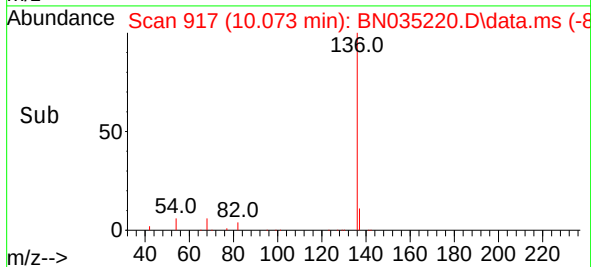
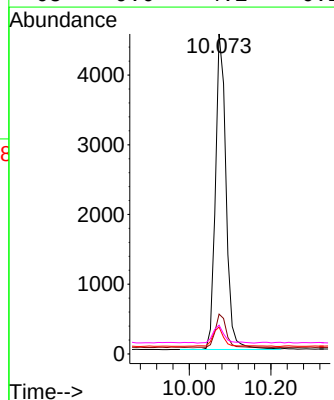
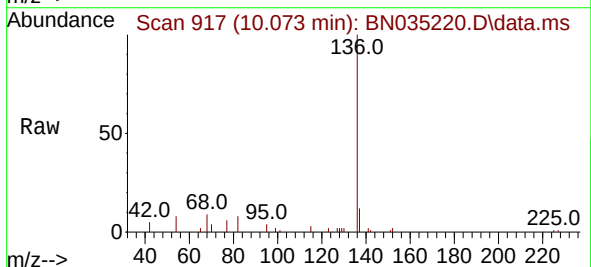
Instrument :
BNA_N
ClientSampleId :
PB165012BL

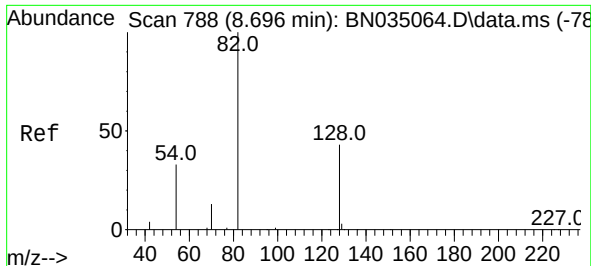
Tgt Ion: 99 Resp: 5198
Ion Ratio Lower Upper
99 100
42 13.4 11.4 17.0
71 36.1 34.6 51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Tgt Ion: 136 Resp: 8156
Ion Ratio Lower Upper
136 100
137 12.5 9.8 14.8
54 8.4 4.0 6.0#
68 9.0 4.2 6.2#

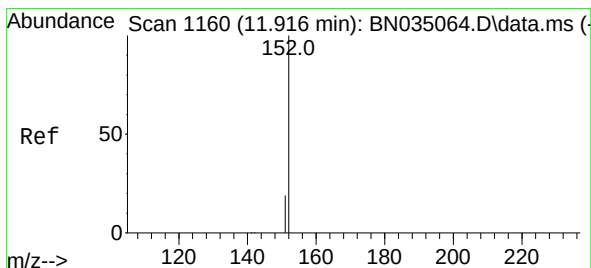
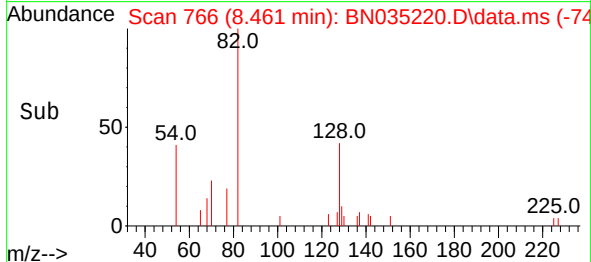
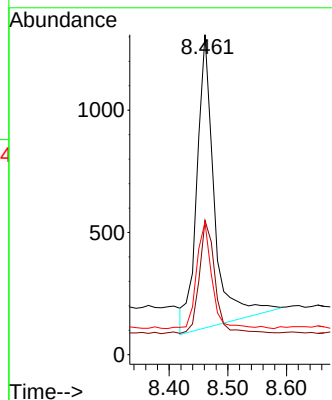
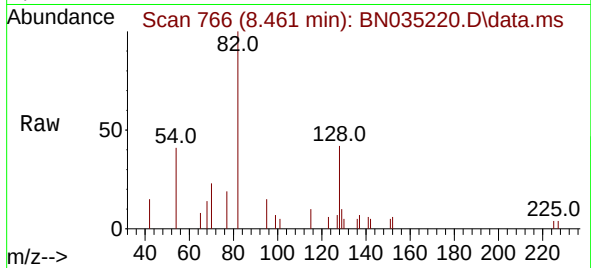




#8
Nitrobenzene-d5
Concen: 0.354 ng
RT: 8.461 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

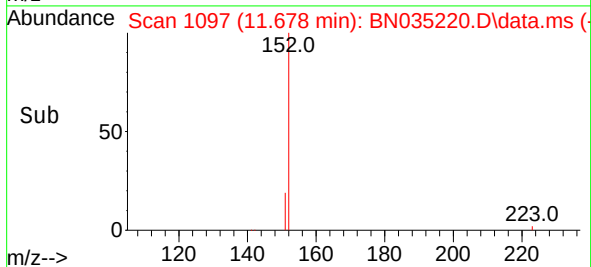
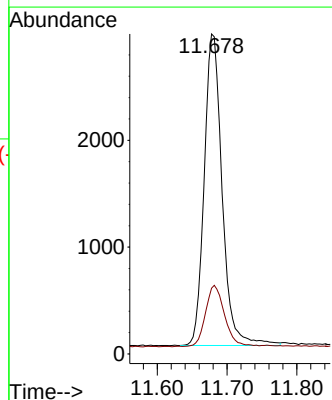
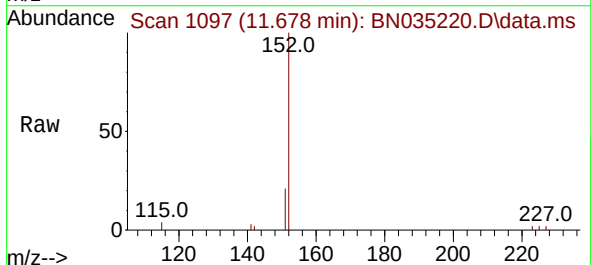
Instrument :
BNA_N
ClientSampleId :
PB165012BL

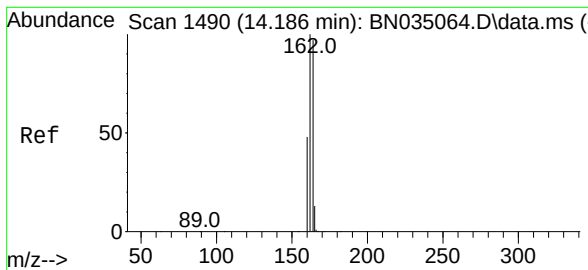
Tgt Ion:	82	Resp:	2515
Ion Ratio	Lower	Upper	
82	100		
128	41.9	36.5	54.7
54	41.4	28.7	43.1



#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 11.678 min Scan# 1097
Delta R.T. -0.000 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Tgt Ion:	152	Resp:	5204
Ion Ratio	Lower	Upper	
152	100		
151	20.7	16.2	24.4

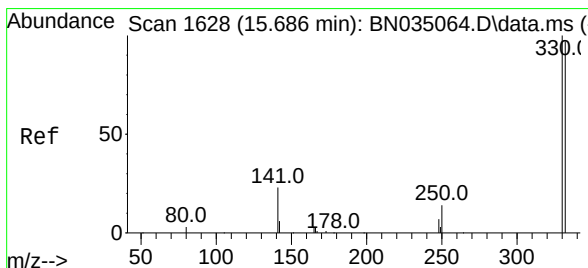
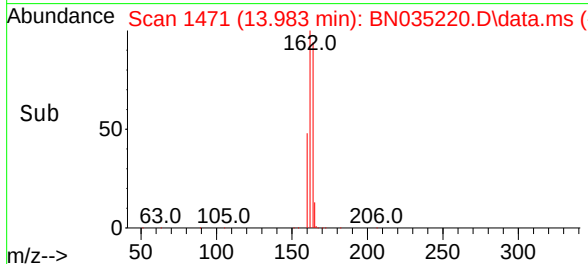
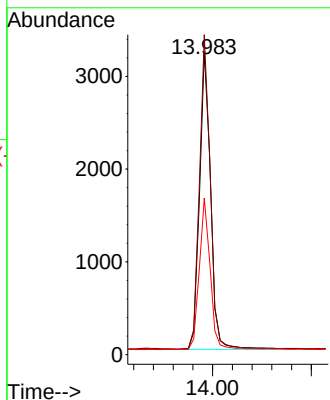
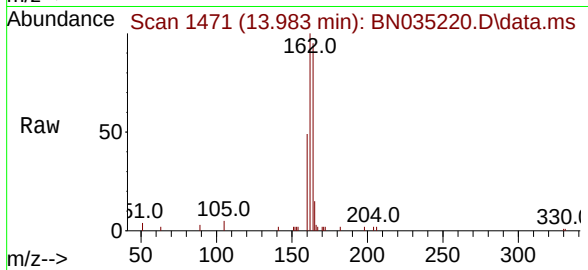




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.983 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

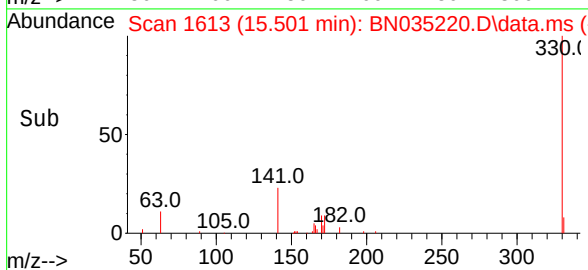
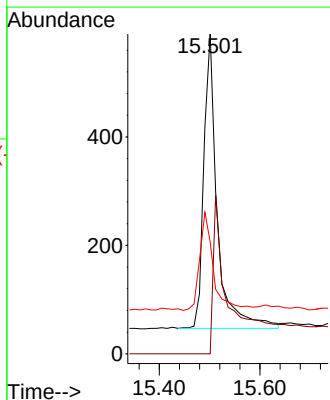
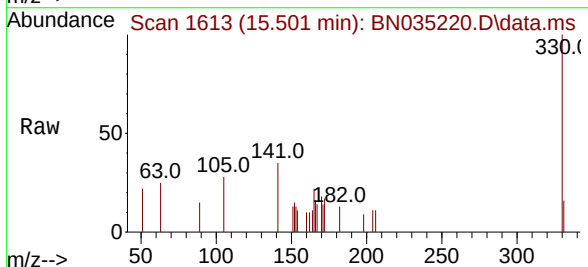
Instrument :
BNA_N
ClientSampleId :
PB165012BL

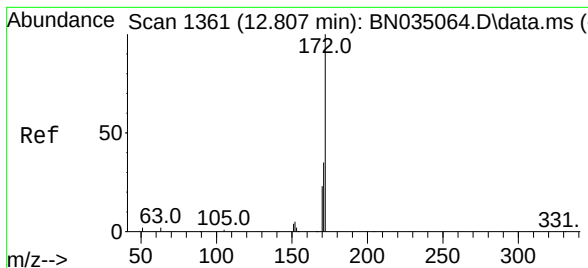
Tgt Ion:	164	Resp:	4996
Ion Ratio	Lower	Upper	
164	100		
162	105.7	82.2	123.2
160	51.7	40.2	60.4



#14
2,4,6-Tribromophenol
Concen: 0.295 ng
RT: 15.501 min Scan# 1613
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Tgt Ion:	330	Resp:	1065
Ion Ratio	Lower	Upper	
330	100		
332	68.8	76.9	115.3#
141	0.0	29.6	44.4#

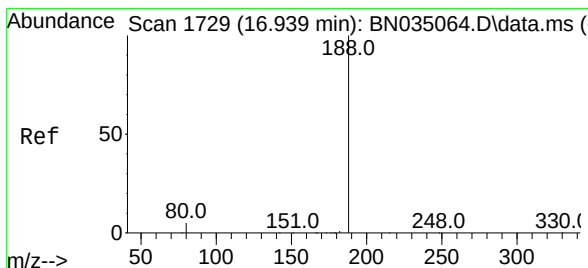
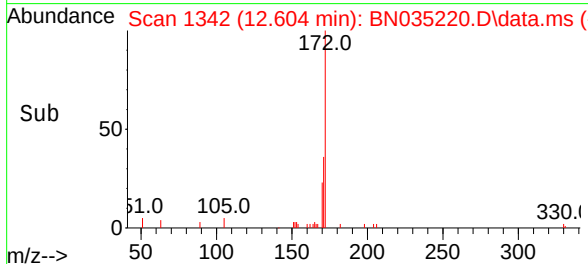
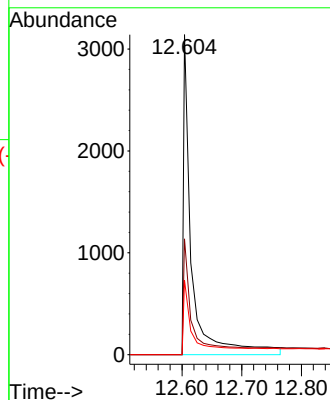
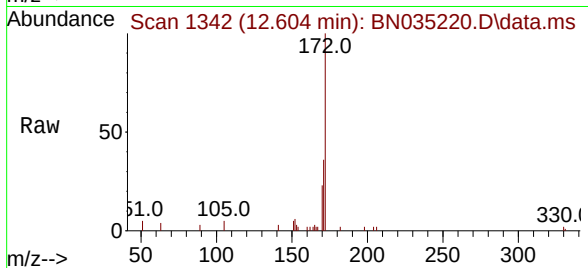




#15
2-Fluorobiphenyl
Concen: 0.167 ng
RT: 12.604 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

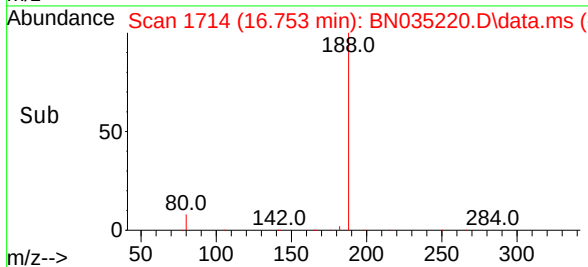
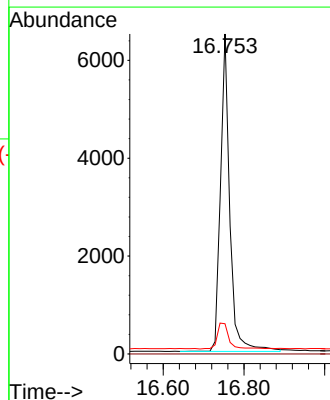
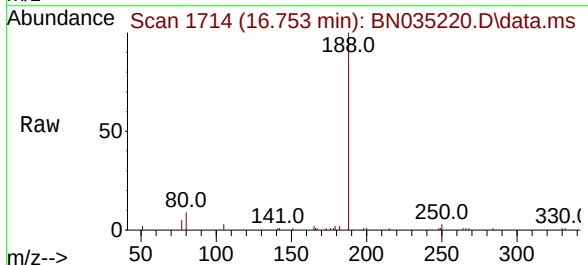
Instrument :
BNA_N
ClientSampleId :
PB165012BL

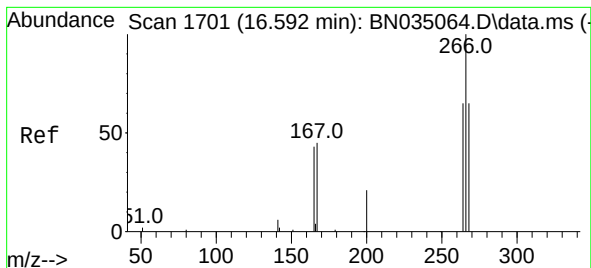
Tgt Ion:	172	Resp:	3386
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.2	42.4
170	23.2	19.0	28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.753 min Scan# 1714
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Tgt Ion:	188	Resp:	10325
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.5	4.3	6.5

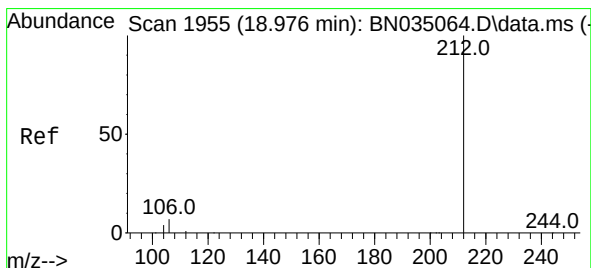
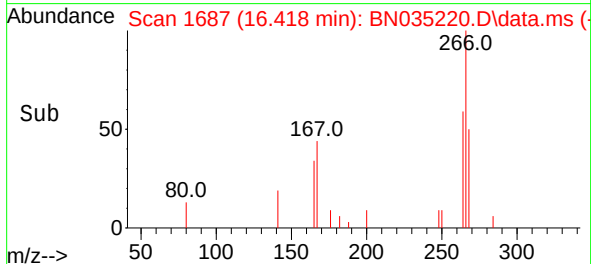
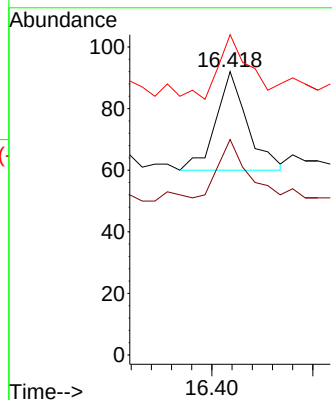
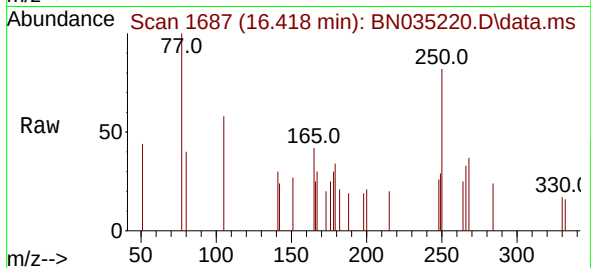




#24
Pentachlorophenol
Concen: 0.022 ng
RT: 16.418 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

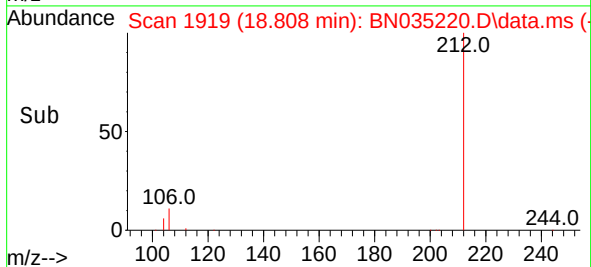
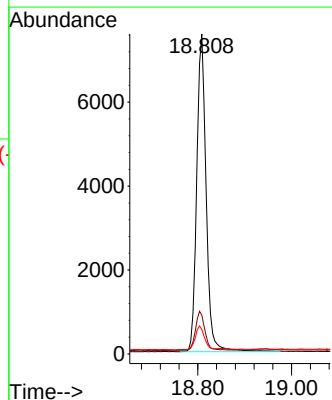
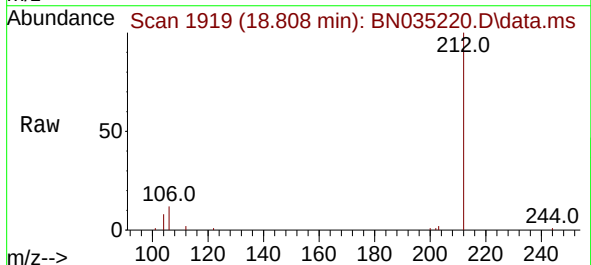
Instrument :
BNA_N
ClientSampleId :
PB165012BL

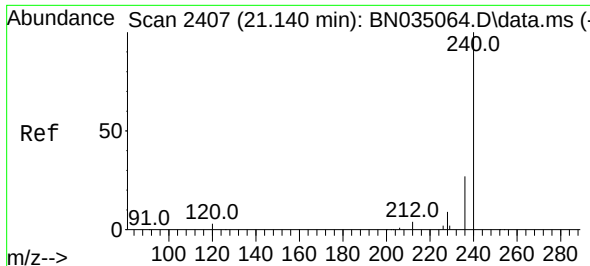
Tgt Ion:266 Resp: 69
Ion Ratio Lower Upper
266 100
264 69.6 49.4 74.0
268 65.2 52.6 79.0



#27
Fluoranthene-d10
Concen: 0.333 ng
RT: 18.808 min Scan# 1919
Delta R.T. 0.002 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Tgt Ion:212 Resp: 10530
Ion Ratio Lower Upper
212 100
106 12.3 6.0 9.0#
104 7.3 3.5 5.3#





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 2407

Delta R.T. -0.003 min

Lab File: BN035220.D

Acq: 21 Nov 2024 13:58

Instrument :

BNA_N

ClientSampleId :

PB165012BL

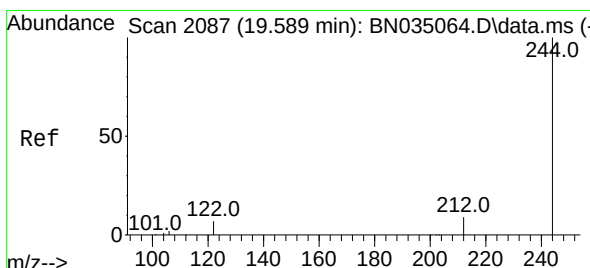
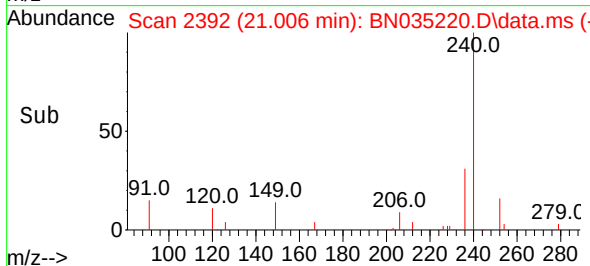
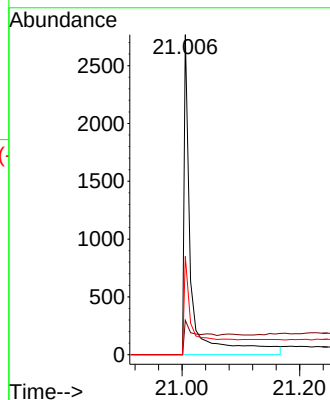
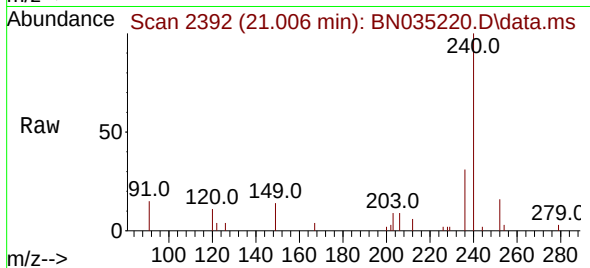
Tgt Ion:240 Resp: 2547

Ion Ratio Lower Upper

240 100

120 10.8 3.8 5.6#

236 30.7 22.2 33.2



#31

Terphenyl-d14

Concen: 1.293 ng

RT: 19.435 min Scan# 2054

Delta R.T. -0.003 min

Lab File: BN035220.D

Acq: 21 Nov 2024 13:58

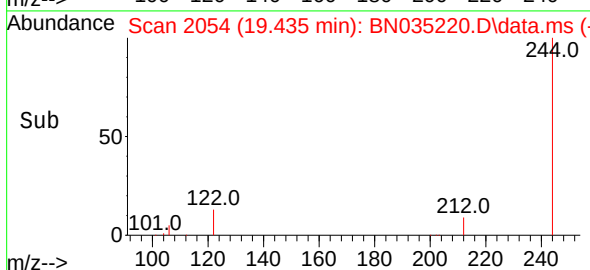
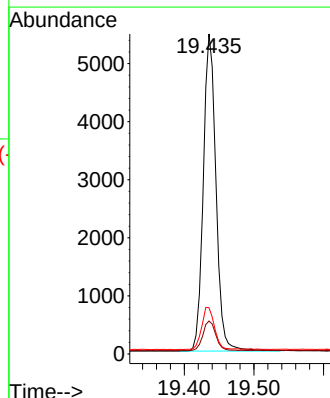
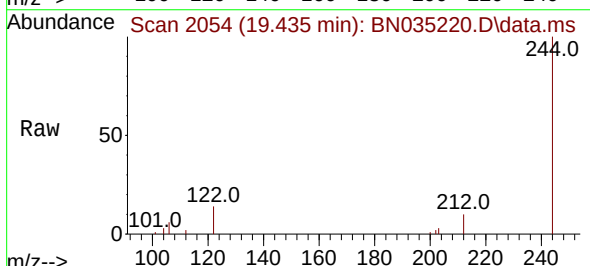
Tgt Ion:244 Resp: 6913

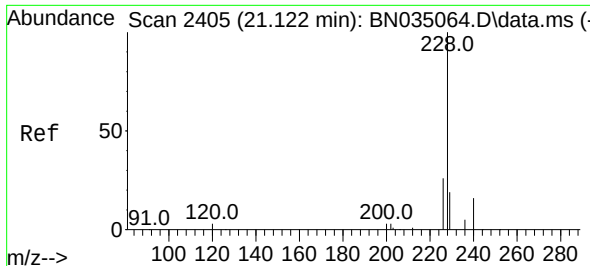
Ion Ratio Lower Upper

244 100

212 10.3 7.6 11.4

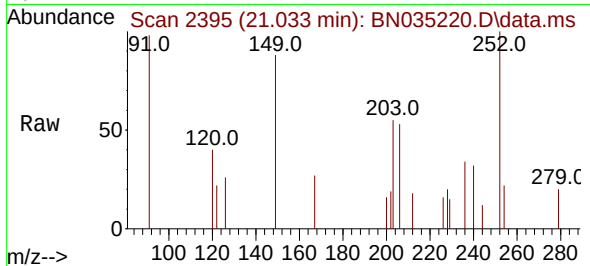
122 14.4 6.1 9.1#



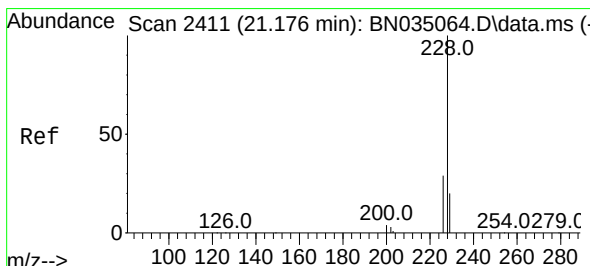
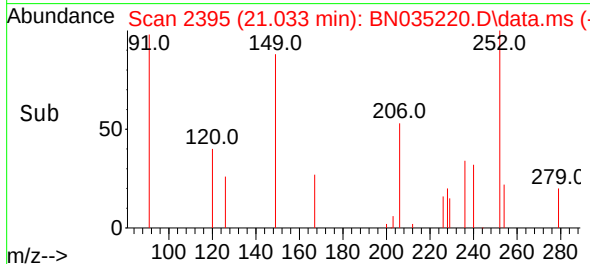
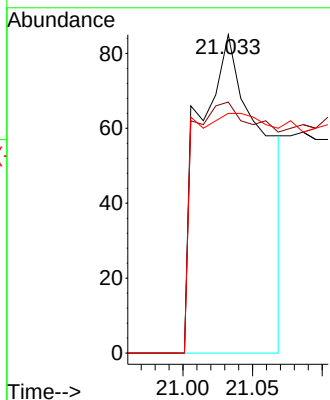


#32
Benzo(a)anthracene
Concen: 0.029 ng
RT: 21.033 min Scan# 2405
Delta R.T. -0.003 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Instrument :
BNA_N
ClientSampleId :
PB165012BL

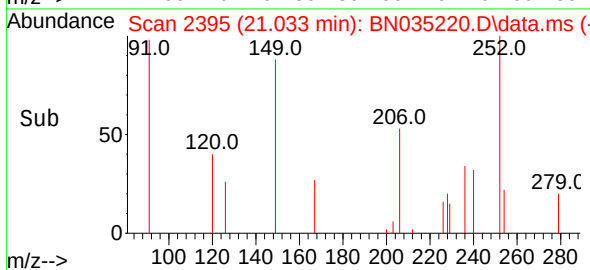
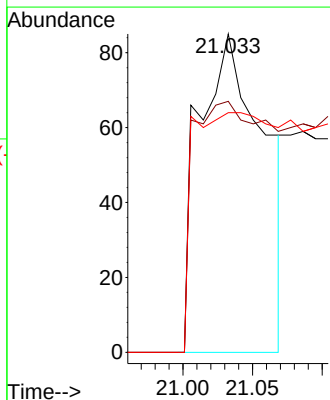
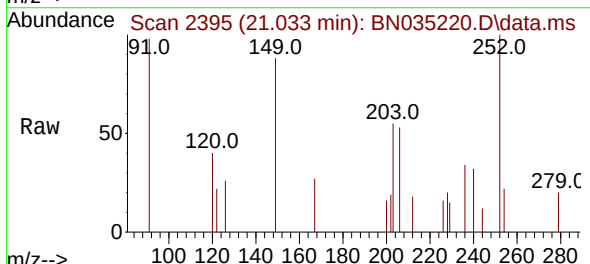


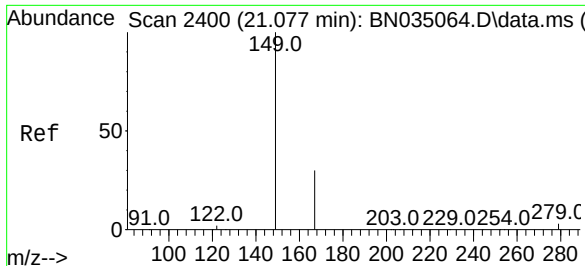
Tgt Ion:228 Resp: 253
Ion Ratio Lower Upper
228 100
226 78.8 21.4 32.0#
229 75.3 15.7 23.5#



#33
Chrysene
Concen: 0.029 ng
RT: 21.033 min Scan# 2395
Delta R.T. -0.003 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

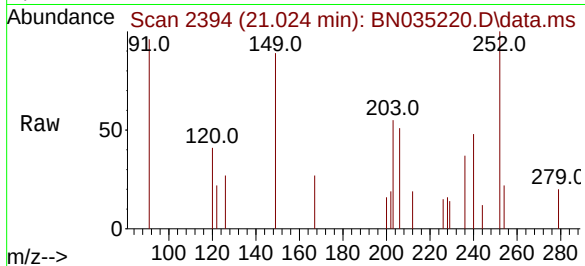
Tgt Ion:228 Resp: 253
Ion Ratio Lower Upper
228 100
226 78.8 23.7 35.5#
229 75.3 16.2 24.4#



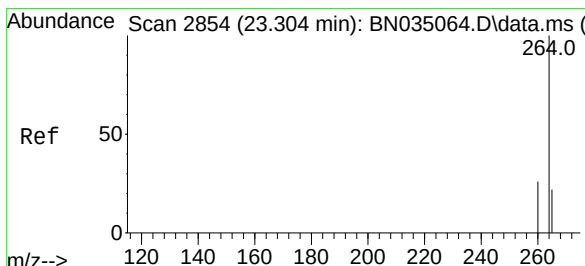
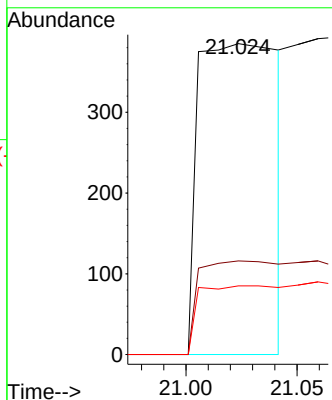
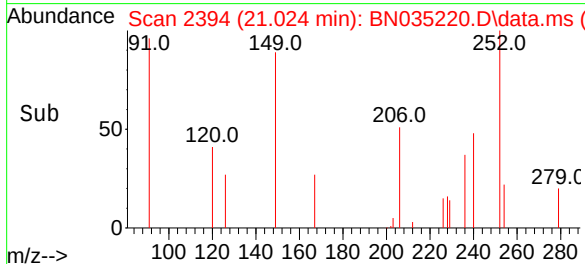


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.184 ng
RT: 21.024 min Scan# 2104
Delta R.T. -0.003 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Instrument :
BNA_N
ClientSampleId :
PB165012BL

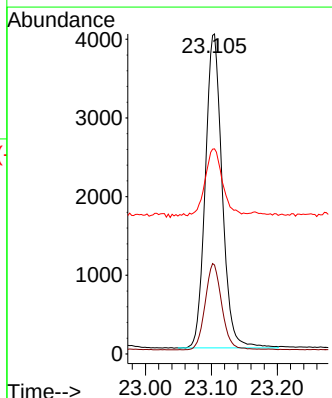
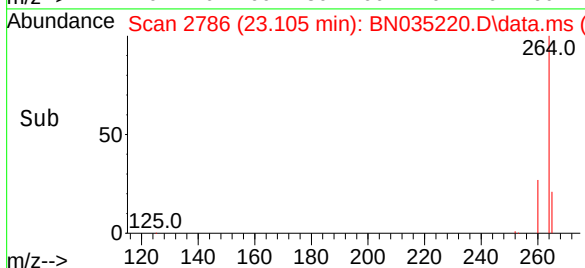
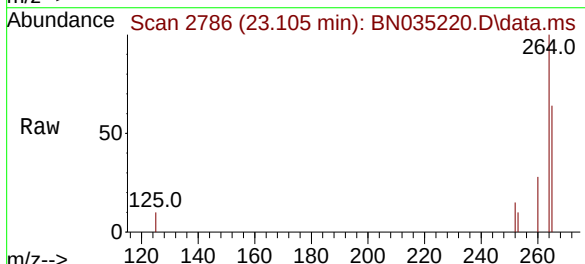


Tgt Ion:149 Resp: 855
Ion Ratio Lower Upper
149 100
167 29.7 23.2 34.8
279 0.0 3.2 4.8#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.105 min Scan# 2786
Delta R.T. 0.001 min
Lab File: BN035220.D
Acq: 21 Nov 2024 13:58

Tgt Ion:264 Resp: 7086
Ion Ratio Lower Upper
264 100
260 27.8 20.9 31.3
265 64.1 35.4 53.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035223.D
Acq On : 21 Nov 2024 15:48
Operator : RC/JU
Sample : P4866-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

Quant Time: Nov 21 16:50:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

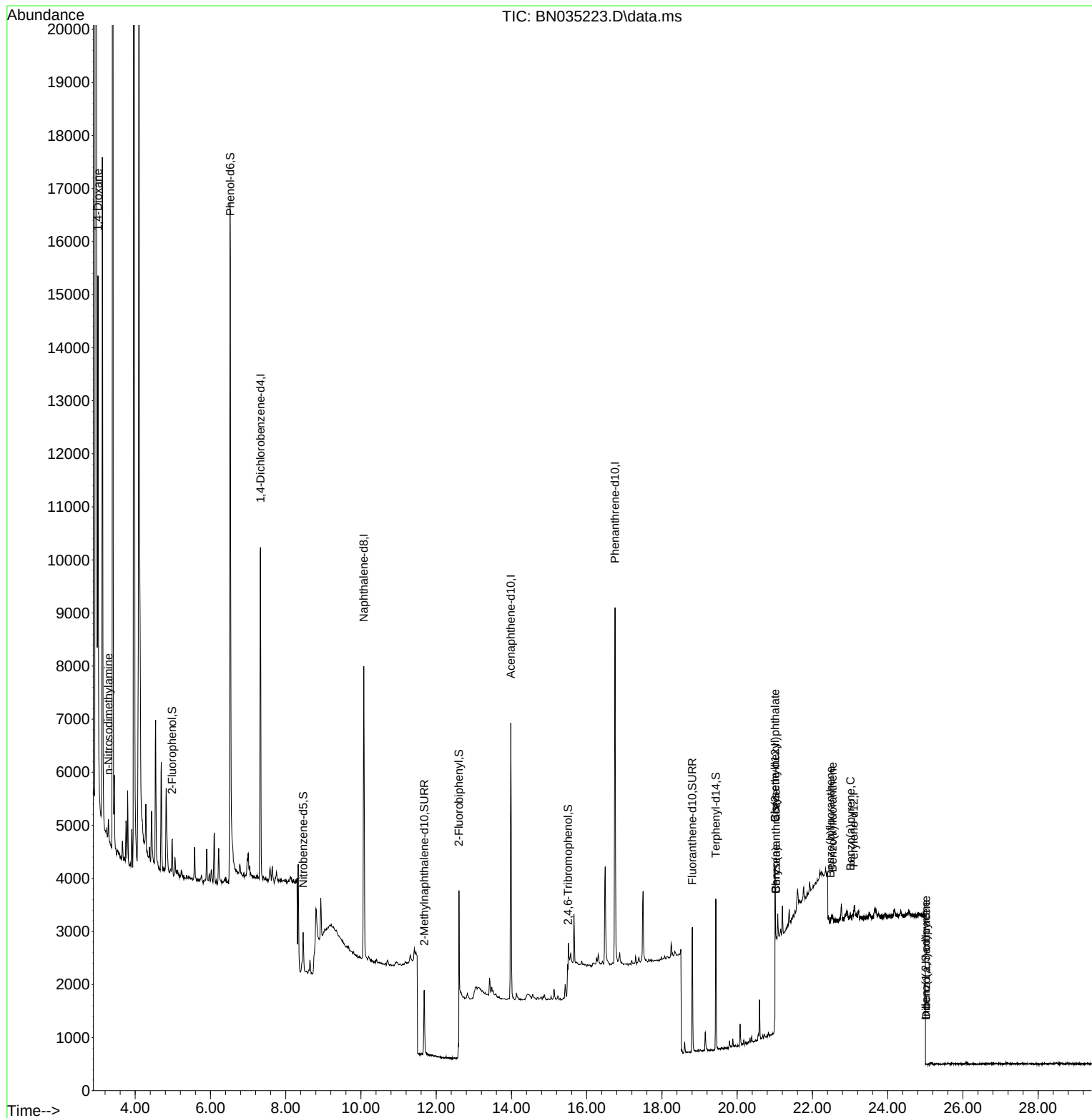
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3104	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7479	0.400	ng	# 0.00
13) Acenaphthene-d10	13.983	164	2812	0.400	ng	0.00
19) Phenanthrene-d10	16.753	188	9268	0.400	ng	# 0.00
29) Chrysene-d12	21.006	240	1000	0.400	ng	# 0.00
35) Perylene-d12	23.102	264	155	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	545	0.069	ng	0.00
5) Phenol-d6	6.528	99	485	0.049	ng	0.00
8) Nitrobenzene-d5	8.461	82	1112	0.171	ng	0.00
11) 2-Methylnaphthalene-d10	11.682	152	1734	0.130	ng	0.00
14) 2,4,6-Tribromophenol	15.501	330	642	0.316	ng	0.00
15) 2-Fluorobiphenyl	12.604	172	1472	0.129	ng	0.00
27) Fluoranthene-d10	18.804	212	2648	0.093	ng	0.00
31) Terphenyl-d14	19.436	244	2773	1.322	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.011	88	6115	2.169	ng	Qvalue 91
3) n-Nitrosodimethylamine	3.285	42	55	0.021	ng	# 1
32) Benzo(a)anthracene	21.033	228	361	0.104	ng	# 1
33) Chrysene	21.033	228	361	0.105	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.006	149	753	0.412	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.011	276	35	0.057	ng	# 1
37) Benzo(b)fluoranthene	22.479	252	31	0.059	ng	# 1
38) Benzo(k)fluoranthene	22.532	252	50	0.096	ng	# 1
39) Benzo(a)pyrene	23.011	252	13	0.028	ng	# 1
40) Dibenzo(a,h)anthracene	25.017	278	69	0.141	ng	# 1

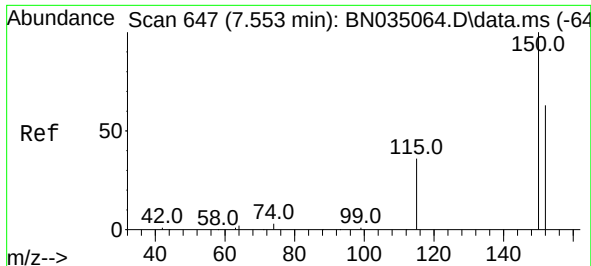
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035223.D
Acq On : 21 Nov 2024 15:48
Operator : RC/JU
Sample : P4866-01 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

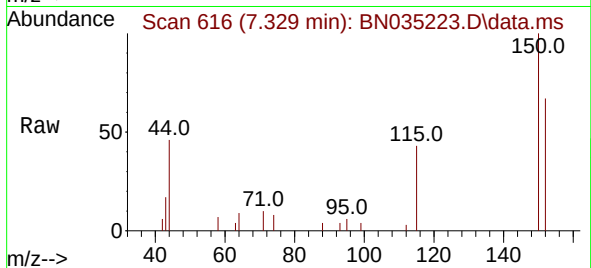
Quant Time: Nov 21 16:50:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



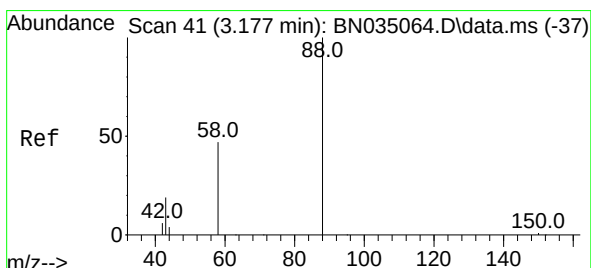
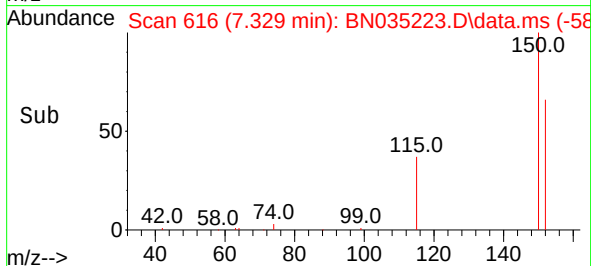
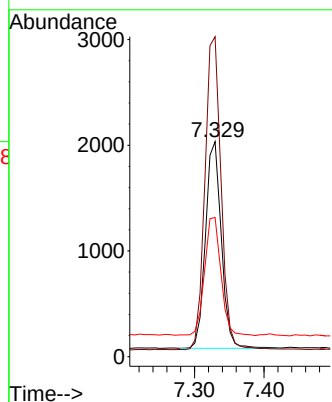


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

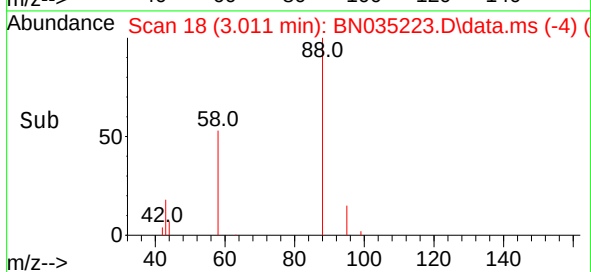
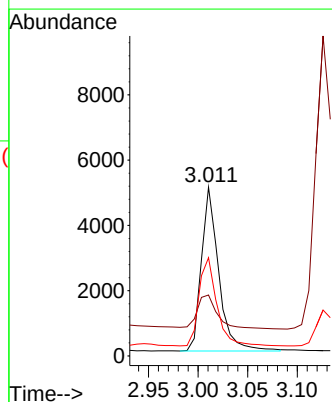
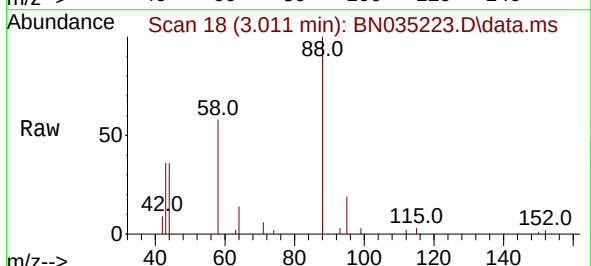


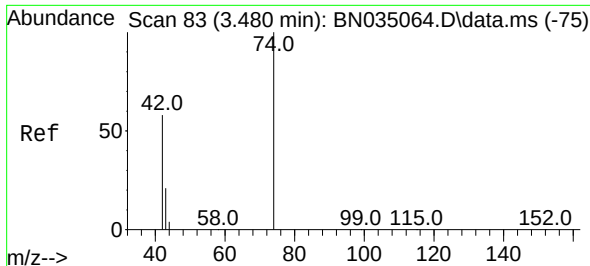
Tgt Ion:152 Resp: 3104
Ion Ratio Lower Upper
152 100
150 148.8 124.5 186.7
115 64.7 47.8 71.6



#2
1,4-Dioxane
Concen: 2.169 ng
RT: 3.011 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion: 88 Resp: 6115
Ion Ratio Lower Upper
88 100
43 24.3 16.9 25.3
58 55.6 39.0 58.4

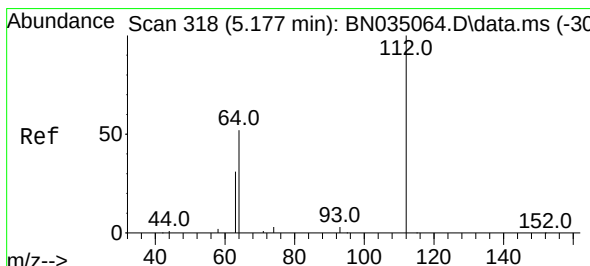
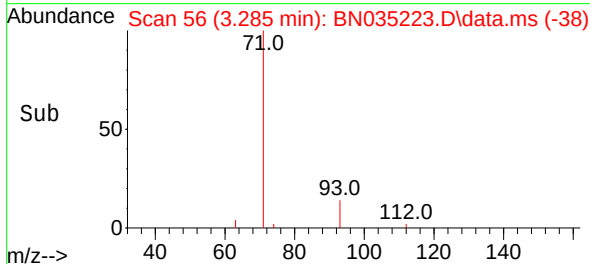
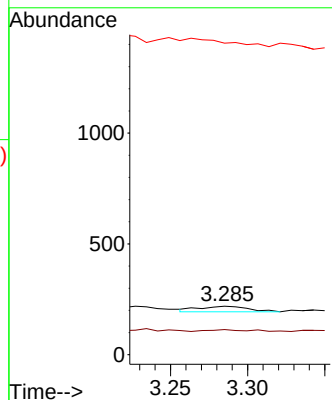
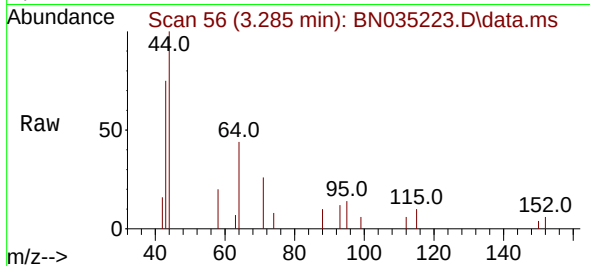




#3
n-Nitrosodimethylamine
Concen: 0.021 ng
RT: 3.285 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

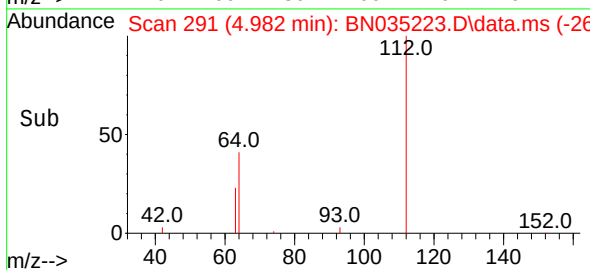
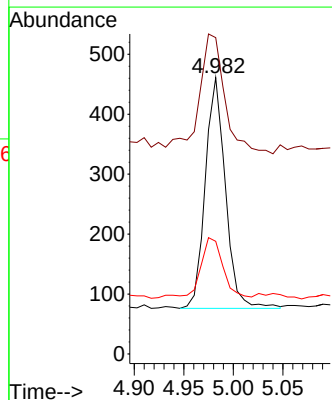
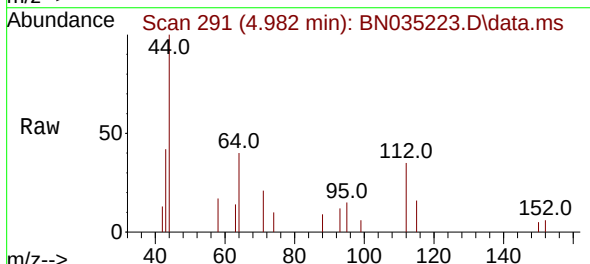
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

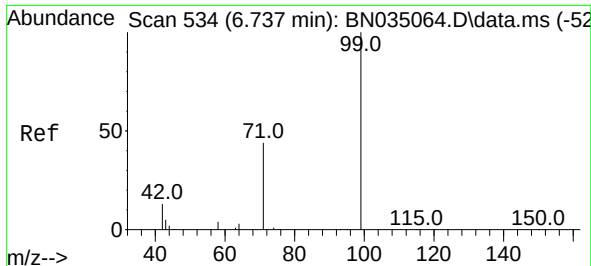
Tgt Ion: 42 Resp: 55
Ion Ratio Lower Upper
42 100
74 20.0 120.8 181.2#
44 0.0 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.069 ng
RT: 4.982 min Scan# 291
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion: 112 Resp: 545
Ion Ratio Lower Upper
112 100
64 67.0 39.7 59.5#
63 29.5 23.0 34.4

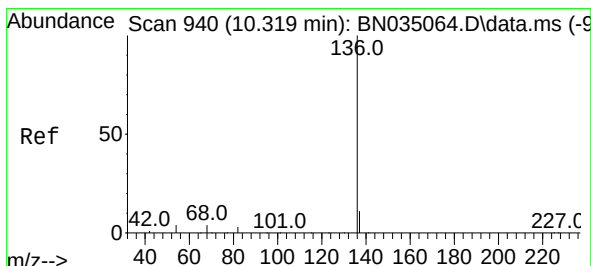
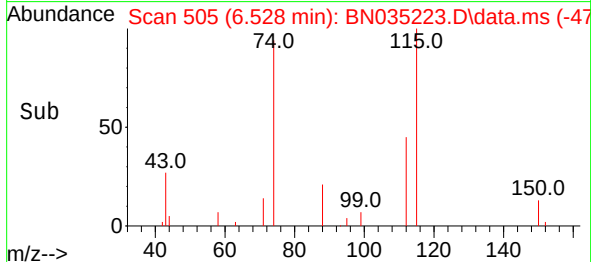
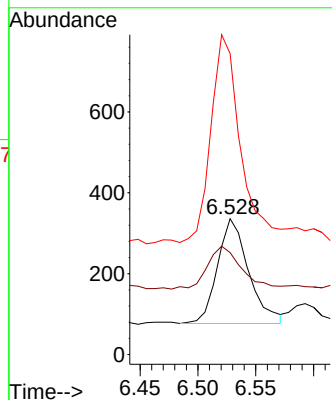
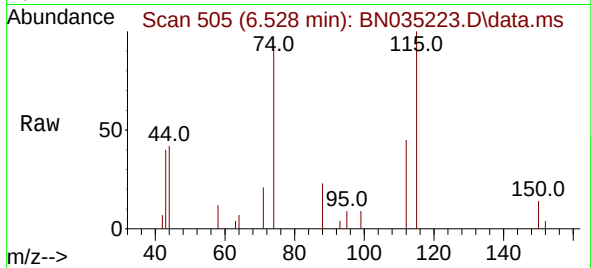




#5
Phenol-d6
Concen: 0.049 ng
RT: 6.528 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

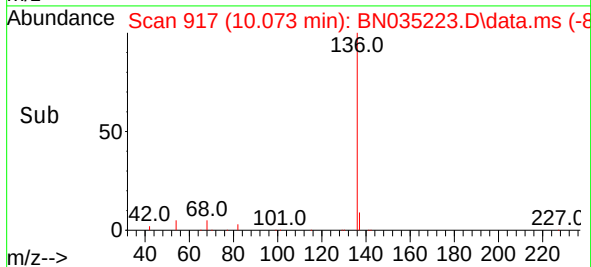
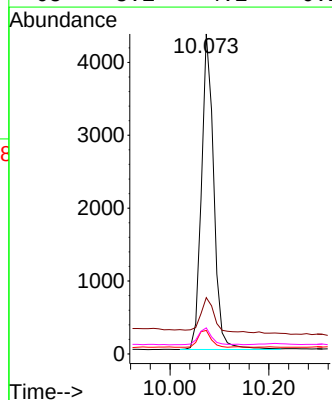
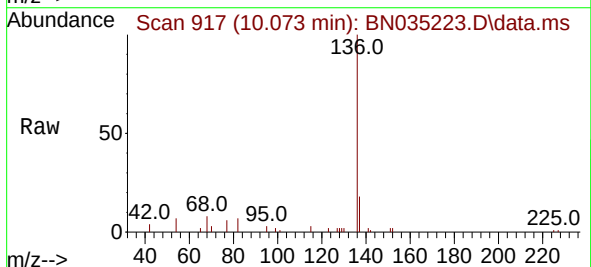
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

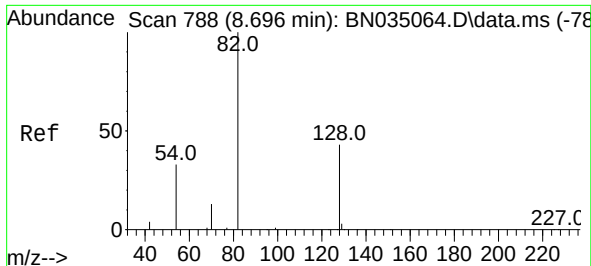
Tgt Ion: 99 Resp: 485
Ion Ratio Lower Upper
99 100
42 43.1 11.4 17.0#
71 212.8 34.6 51.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion: 136 Resp: 7479
Ion Ratio Lower Upper
136 100
137 17.6 9.8 14.8#
54 7.3 4.0 6.0#
68 8.1 4.2 6.2#

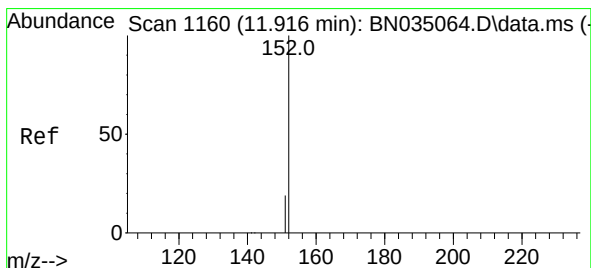
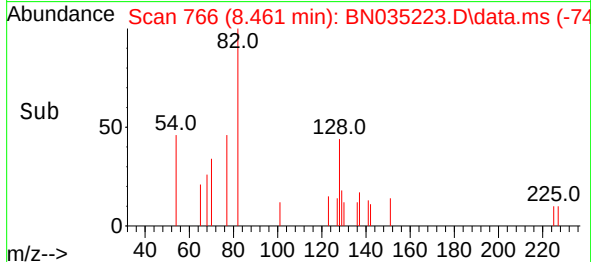
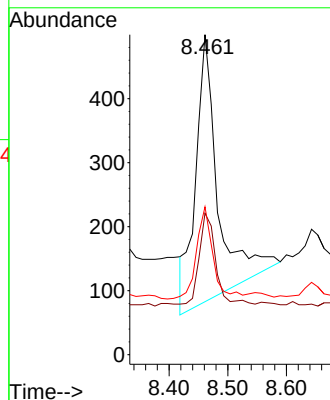
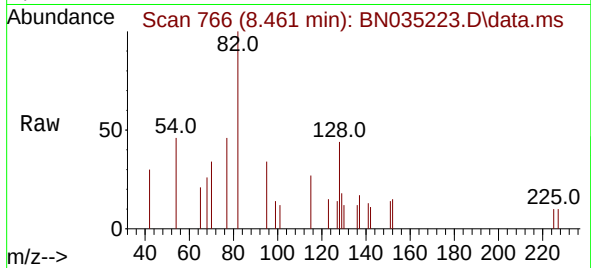




#8
Nitrobenzene-d5
Concen: 0.171 ng
RT: 8.461 min Scan# 70
Delta R.T. -0.000 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

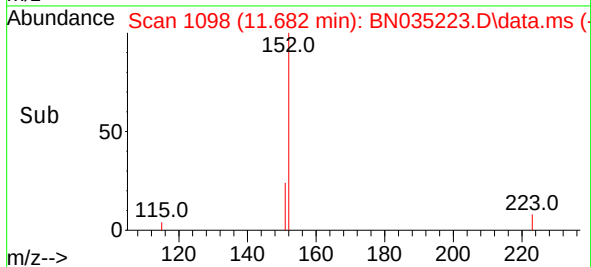
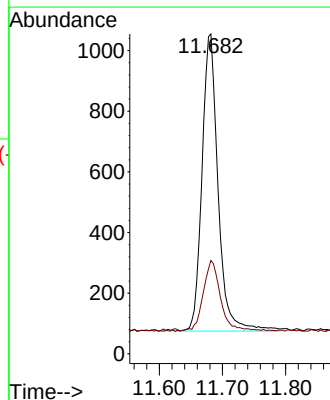
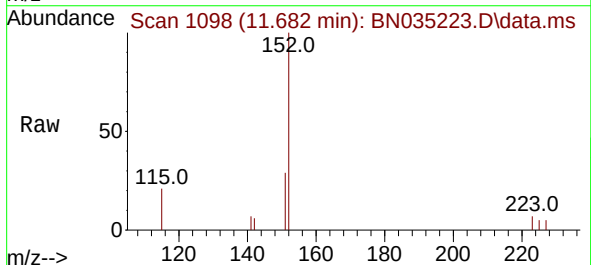
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

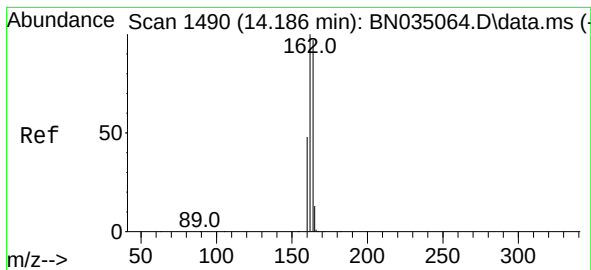
Tgt Ion: 82 Resp: 1112
Ion Ratio Lower Upper
82 100
128 44.2 36.5 54.7
54 46.2 28.7 43.1#



#11
2-Methylnaphthalene-d10
Concen: 0.130 ng
RT: 11.682 min Scan# 1098
Delta R.T. 0.004 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion:152 Resp: 1734
Ion Ratio Lower Upper
152 100
151 25.0 16.2 24.4#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.983 min Scan# 14

Delta R.T. -0.004 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

Instrument :

BNA_N

ClientSampleId :

RW7-SP200-20241114

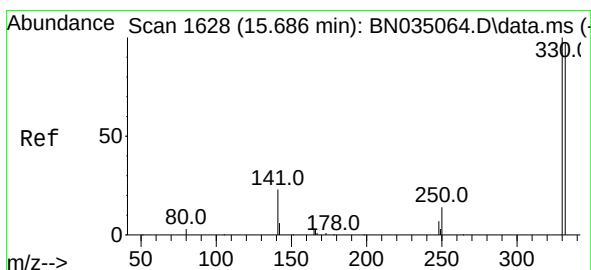
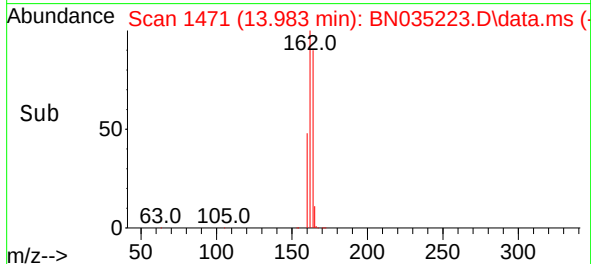
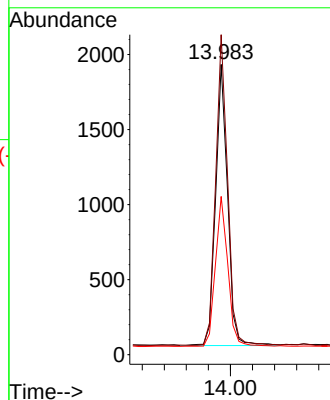
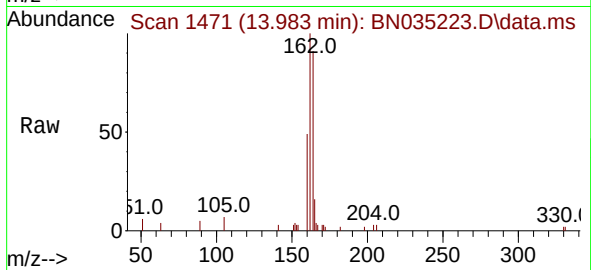
Tgt Ion:164 Resp: 2812

Ion Ratio Lower Upper

164 100

162 110.2 82.2 123.2

160 54.5 40.2 60.4



#14

2,4,6-Tribromophenol

Concen: 0.316 ng

RT: 15.501 min Scan# 1613

Delta R.T. 0.007 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

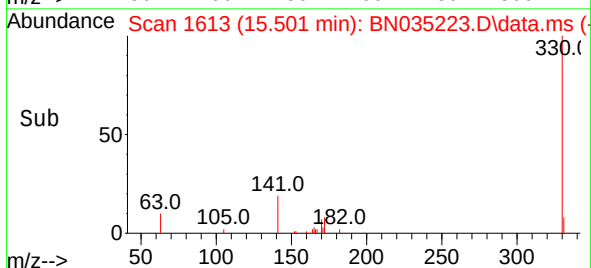
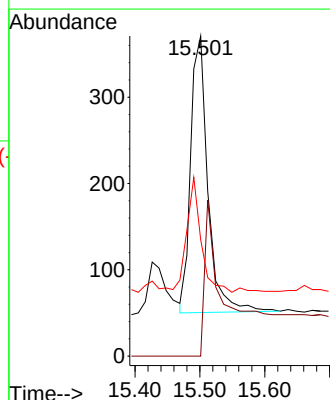
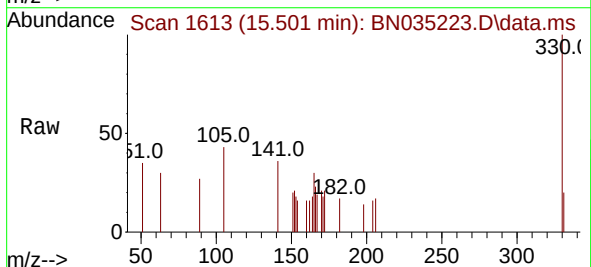
Tgt Ion:330 Resp: 642

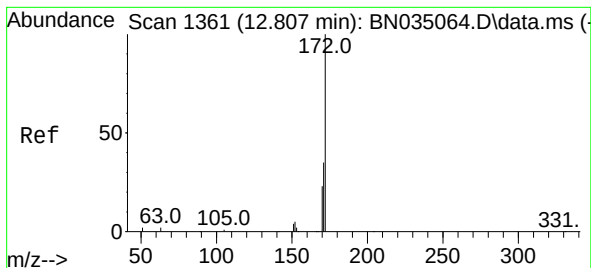
Ion Ratio Lower Upper

330 100

332 76.6 76.9 115.3#

141 0.0 29.6 44.4#

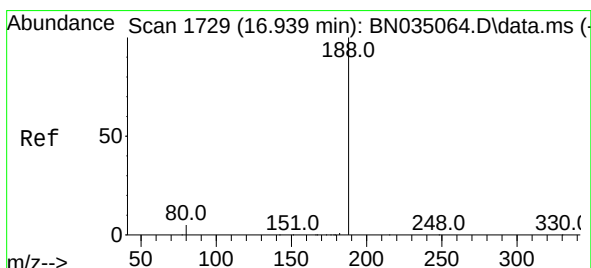
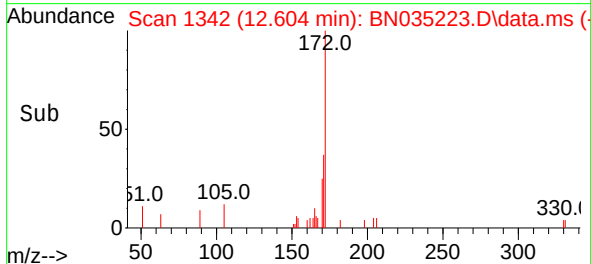
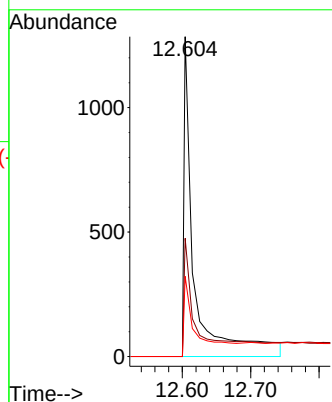
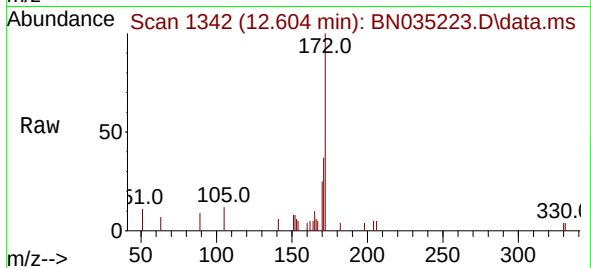




#15
2-Fluorobiphenyl
Concen: 0.129 ng
RT: 12.604 min Scan# 1472
Delta R.T. -0.004 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

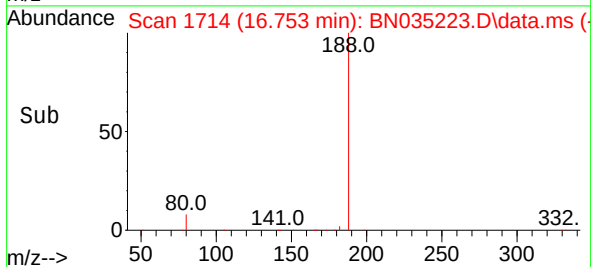
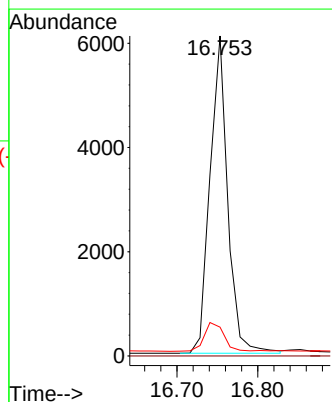
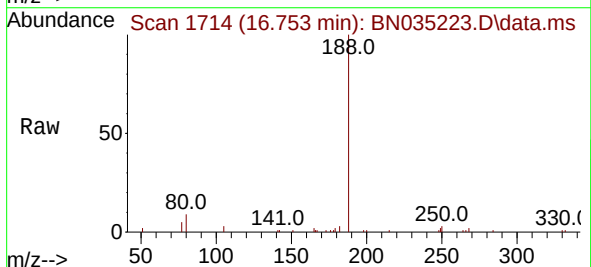
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

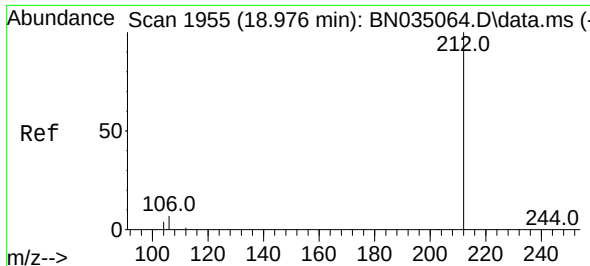
Tgt Ion:	172	Resp:	1472
Ion	Ratio	Lower	Upper
172	100		
171	37.0	28.2	42.4
170	25.1	19.0	28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.753 min Scan# 1714
Delta R.T. 0.007 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

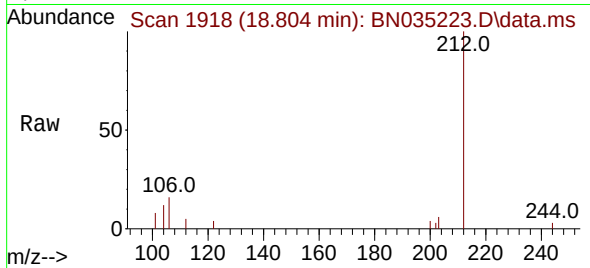
Tgt Ion:	188	Resp:	9268
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.0	4.3	6.5#



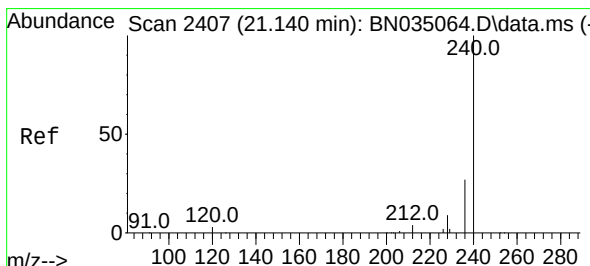
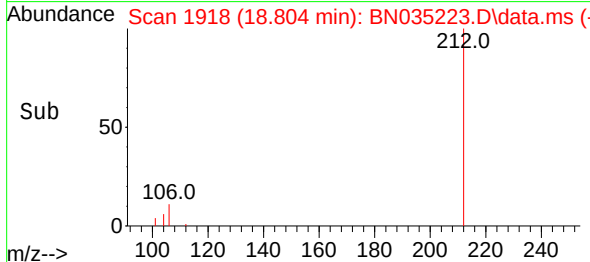
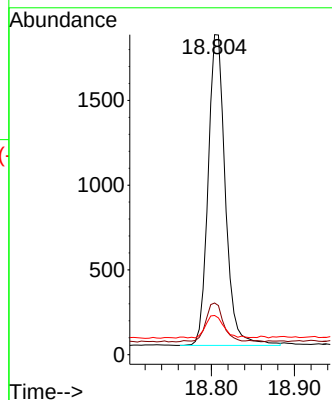


#27
Fluoranthene-d10
Concen: 0.093 ng
RT: 18.804 min Scan# 1918
Delta R.T. -0.002 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Instrument : BNA_N
ClientSampleId : RW7-SP200-20241114

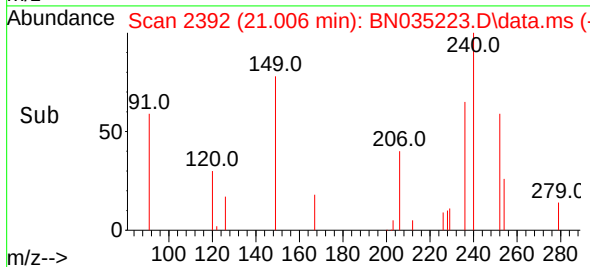
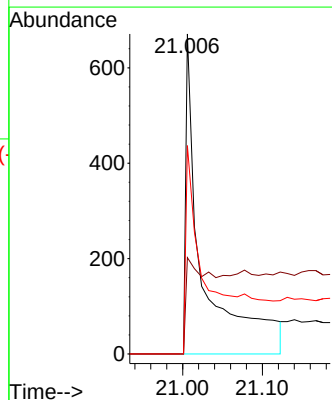
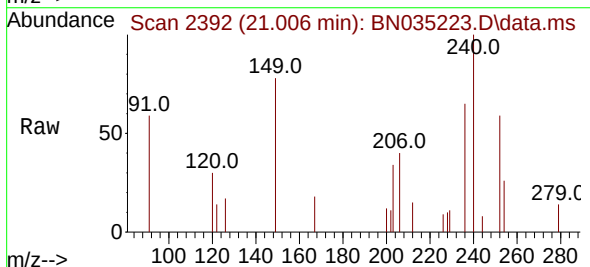


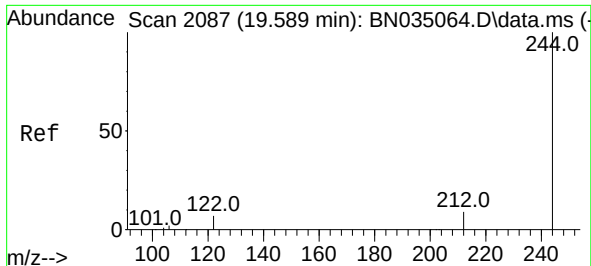
Tgt Ion:212 Resp: 2648
Ion Ratio Lower Upper
212 100
106 12.9 6.0 9.0#
104 7.5 3.5 5.3#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.002 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

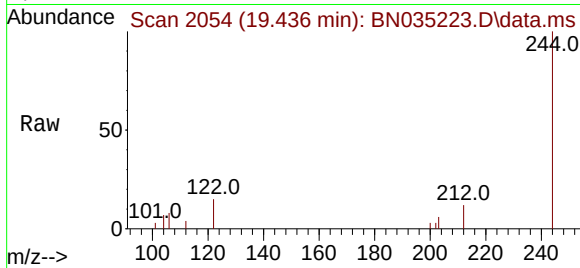
Tgt Ion:240 Resp: 1000
Ion Ratio Lower Upper
240 100
120 30.1 3.8 5.6#
236 65.1 22.2 33.2#



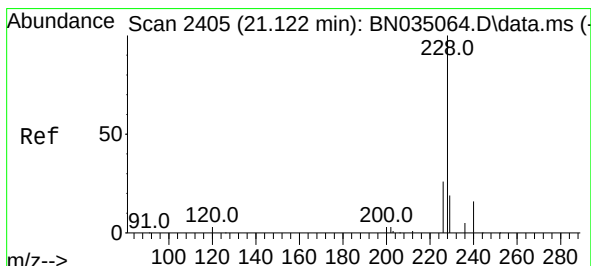
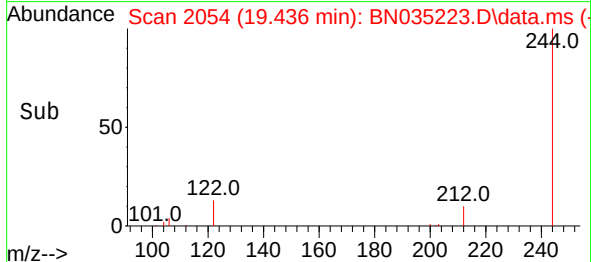
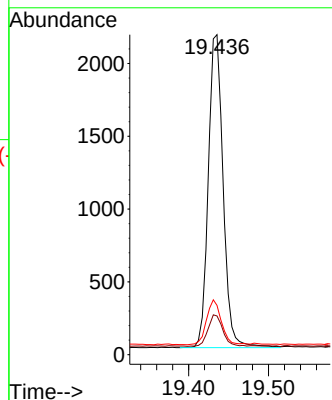


#31
 Terphenyl-d14
 Concen: 1.322 ng
 RT: 19.436 min Scan# 2087
 Delta R.T. -0.002 min
 Lab File: BN035223.D
 Acq: 21 Nov 2024 15:48

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP200-20241114

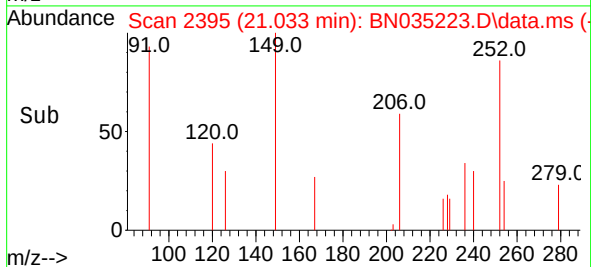
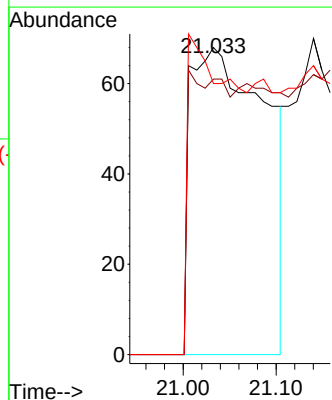
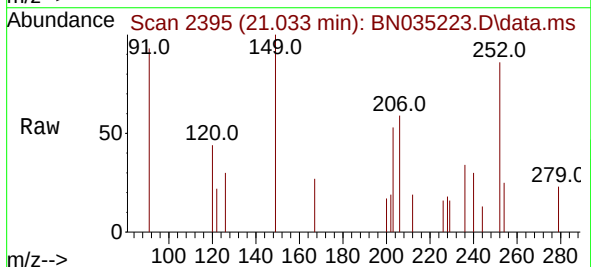


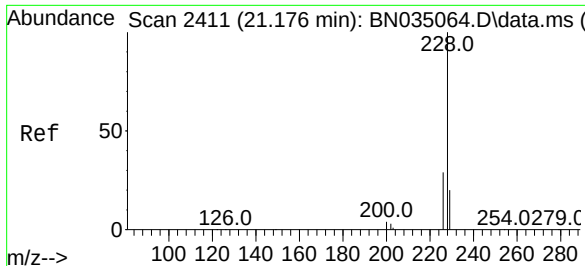
Tgt Ion:244 Resp: 2773
 Ion Ratio Lower Upper
 244 100
 212 12.1 7.6 11.4#
 122 15.4 6.1 9.1#



#32
 Benzo(a)anthracene
 Concen: 0.104 ng
 RT: 21.033 min Scan# 2395
 Delta R.T. -0.002 min
 Lab File: BN035223.D
 Acq: 21 Nov 2024 15:48

Tgt Ion:228 Resp: 361
 Ion Ratio Lower Upper
 228 100
 226 89.7 21.4 32.0#
 229 88.2 15.7 23.5#

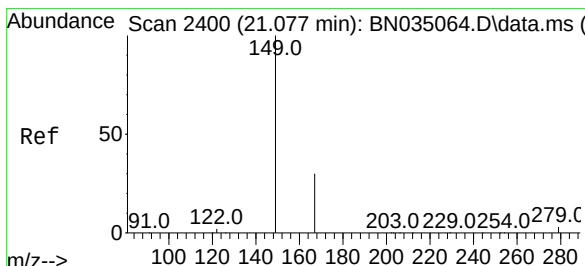
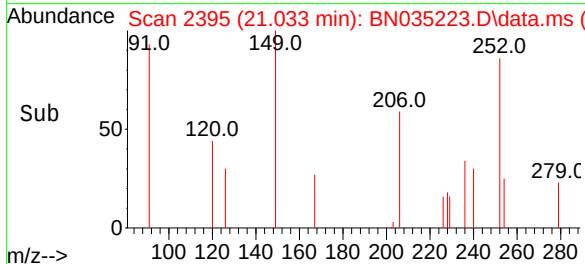
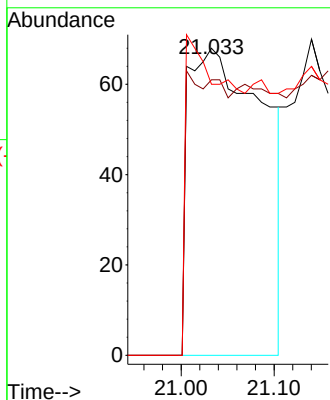
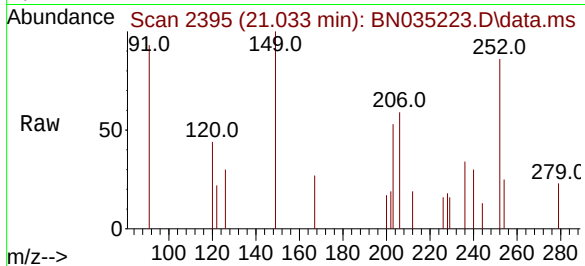




#33
Chrysene
Concen: 0.105 ng
RT: 21.033 min Scan# 2411
Delta R.T. -0.002 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

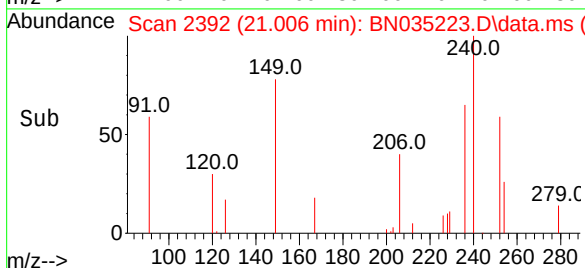
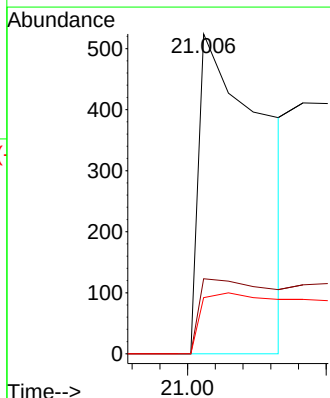
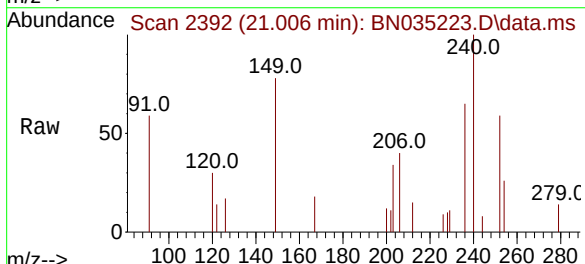
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241114

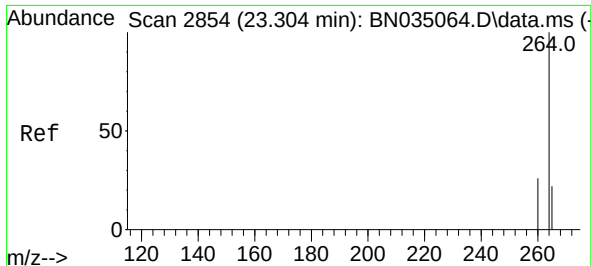
Tgt Ion:228	Resp:	361
Ion Ratio	Lower	Upper
228	100	
226	89.7	23.7 35.5#
229	88.2	16.2 24.4#



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.412 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.020 min
Lab File: BN035223.D
Acq: 21 Nov 2024 15:48

Tgt Ion:149	Resp:	753
Ion Ratio	Lower	Upper
149	100	
167	26.3	23.2 34.8
279	33.7	3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.102 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035223.D

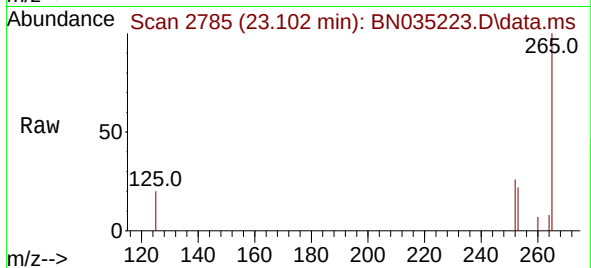
Acq: 21 Nov 2024 15:48

Instrument :

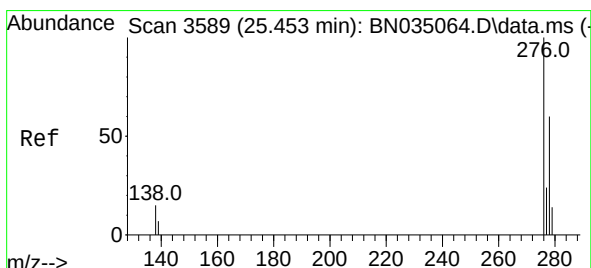
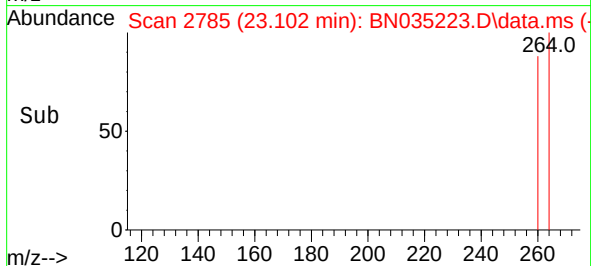
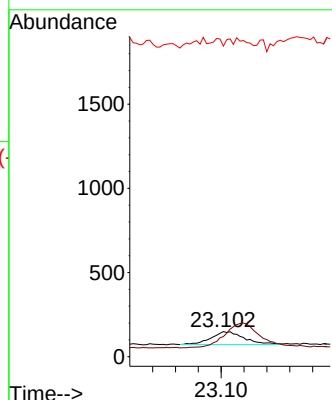
BNA_N

ClientSampleId :

RW7-SP200-20241114



Tgt Ion:	264	Resp:	155
Ion Ratio	Lower	Upper	
264	100		
260	80.5	20.9	31.3#
265	1238.3	35.4	53.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.057 ng

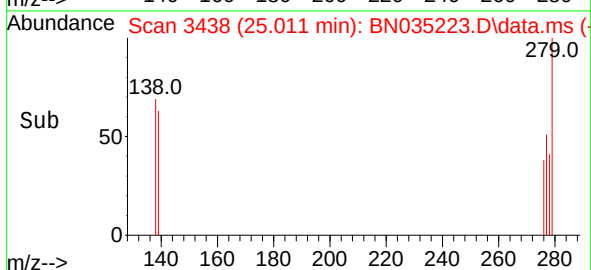
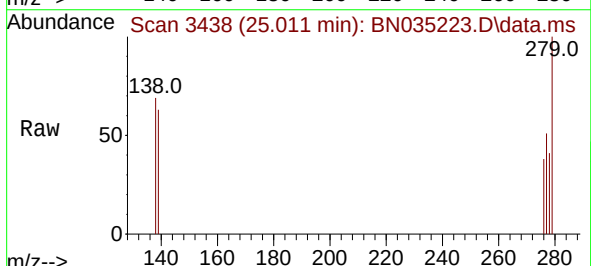
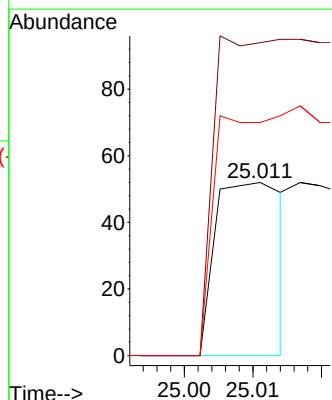
RT: 25.011 min Scan# 3438

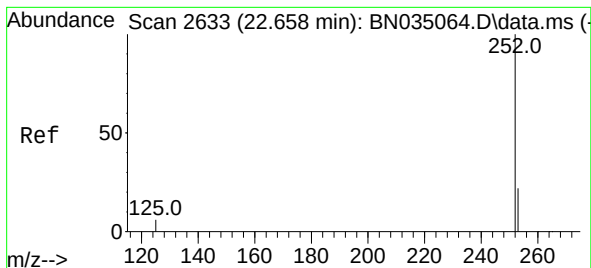
Delta R.T. -0.146 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

Tgt Ion:	276	Resp:	35
Ion Ratio	Lower	Upper	
276	100		
138	282.9	13.0	19.4#
277	251.4	19.8	29.6#





#37

Benzo(b)fluoranthene

Concen: 0.059 ng

RT: 22.479 min Scan# 2590

Delta R.T. -0.008 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

Instrument :

BNA_N

ClientSampleId :

RW7-SP200-20241114

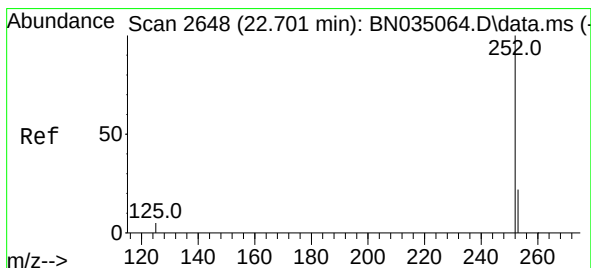
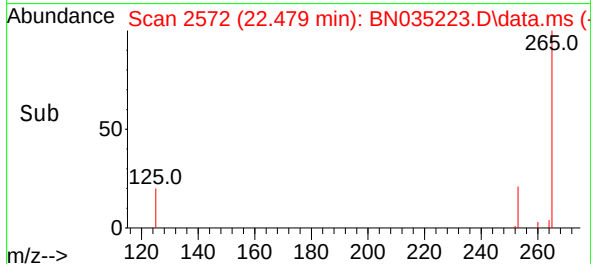
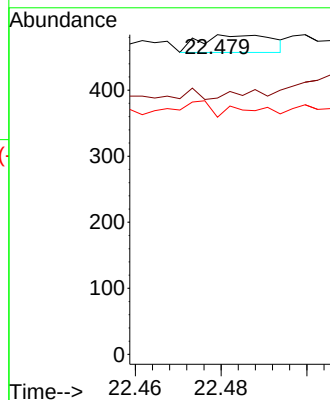
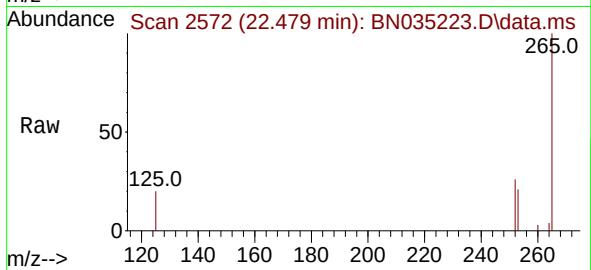
Tgt Ion:252 Resp: 31

Ion Ratio Lower Upper

252 100

253 80.2 19.3 28.9#

125 74.2 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 0.096 ng

RT: 22.532 min Scan# 2590

Delta R.T. 0.004 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

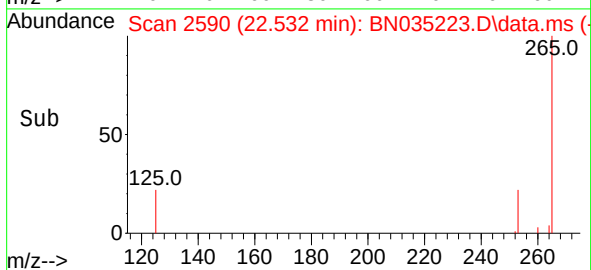
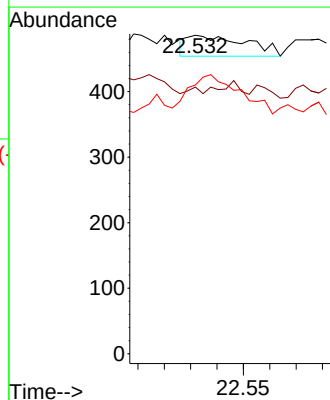
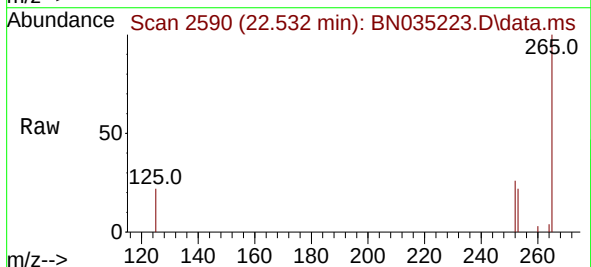
Tgt Ion:252 Resp: 50

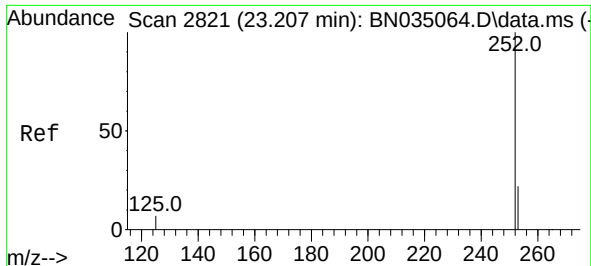
Ion Ratio Lower Upper

252 100

253 83.7 19.5 29.3#

125 84.4 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.028 ng

RT: 23.011 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

Instrument :

BNA_N

ClientSampleId :

RW7-SP200-20241114

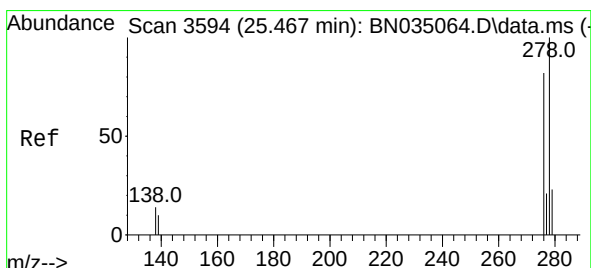
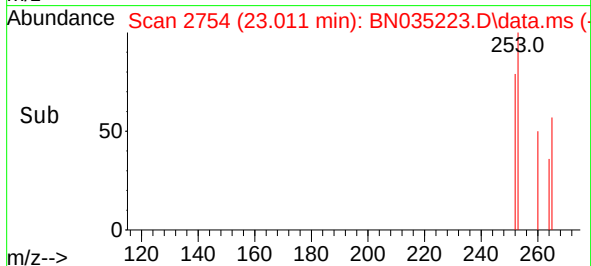
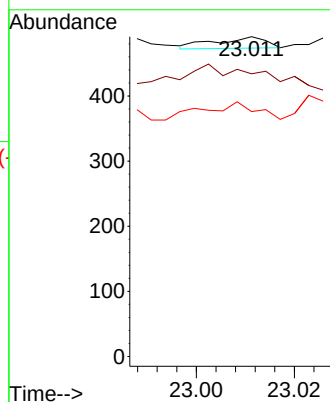
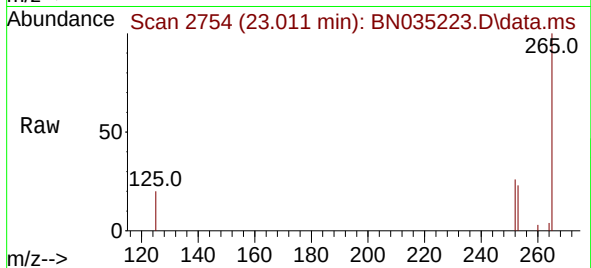
Tgt Ion:252 Resp: 13

Ion Ratio Lower Upper

252 100

253 88.4 20.1 30.1#

125 76.6 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.141 ng

RT: 25.017 min Scan# 3440

Delta R.T. -0.160 min

Lab File: BN035223.D

Acq: 21 Nov 2024 15:48

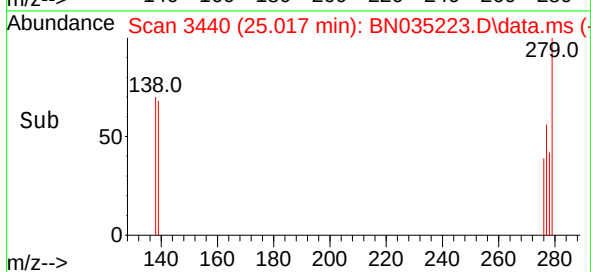
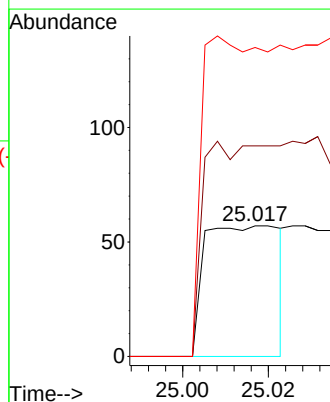
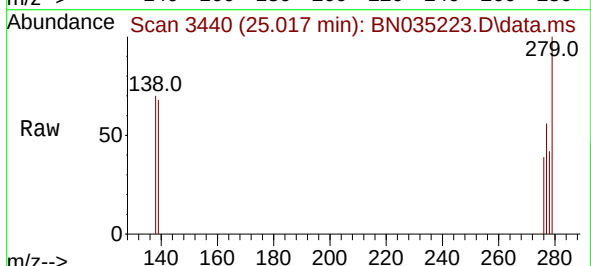
Tgt Ion:278 Resp: 69

Ion Ratio Lower Upper

278 100

139 161.4 9.3 13.9#

279 236.8 19.7 29.5#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035225.D
Acq On : 21 Nov 2024 17:00
Operator : RC/JU
Sample : P4866-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

Quant Time: Nov 21 17:25:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration

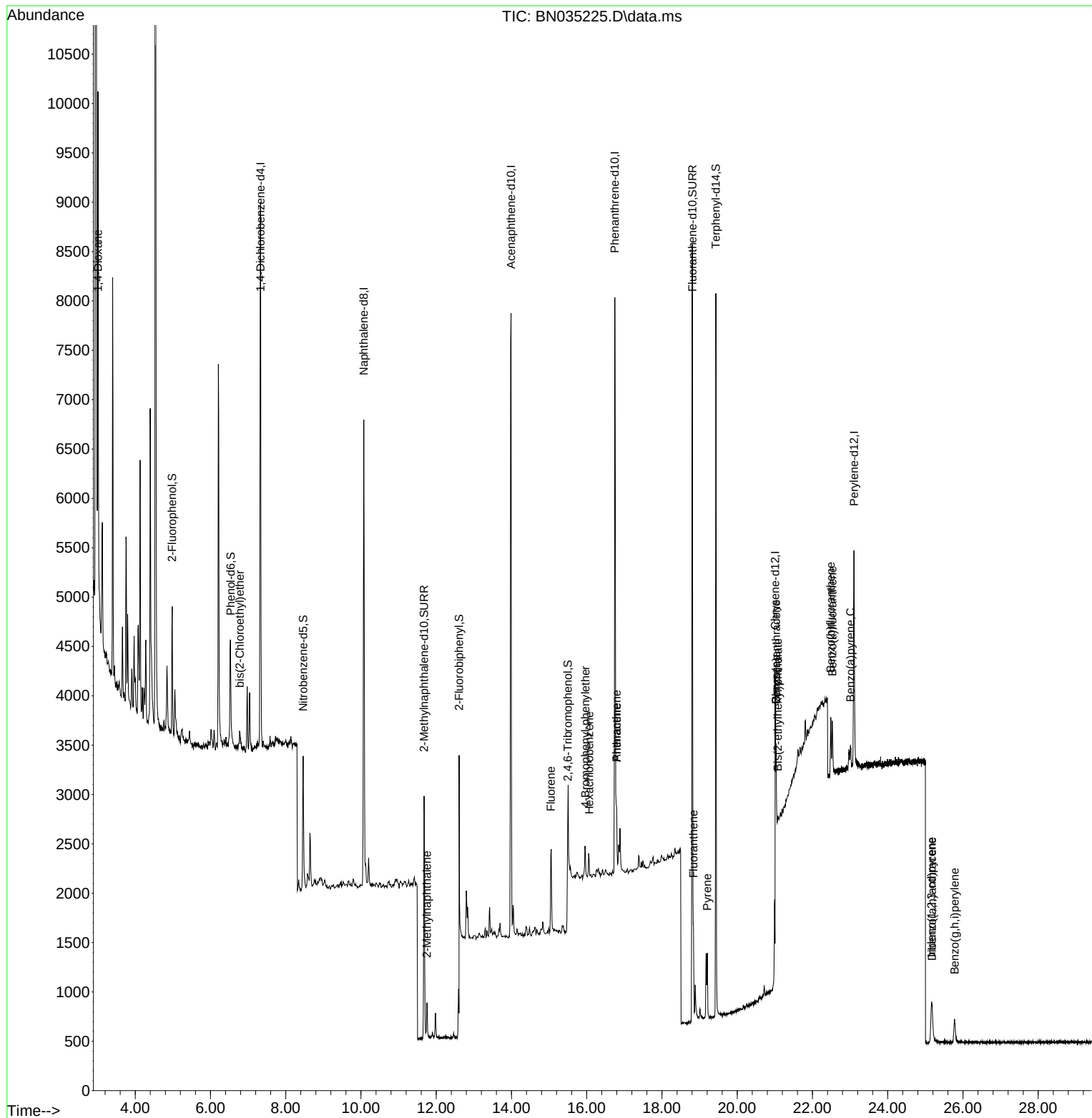
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	2730	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6373	0.400	ng	# 0.00
13) Acenaphthene-d10	13.987	164	3921	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	8423	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1472	0.400	ng	# 0.00
35) Perylene-d12	23.104	264	2672	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	1046	0.151	ng	0.00
5) Phenol-d6	6.535	99	777	0.089	ng	0.00
8) Nitrobenzene-d5	8.461	82	1697	0.306	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	3504	0.309	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	989	0.350	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1511	0.095	ng	0.00
27) Fluoranthene-d10	18.806	212	9431	0.365	ng	0.00
31) Terphenyl-d14	19.433	244	7079	2.292	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.011	88	3185	1.284	ng	# 85
6) bis(2-Chloroethyl)ether	6.781	93	137	0.021	ng	# 78
12) 2-Methylnaphthalene	11.754	142	248	0.020	ng	# 72
18) Fluorene	15.045	166	432	0.027	ng	100
21) 4-Bromophenyl-phenylether	15.964	248	173	0.032	ng	# 44
22) Hexachlorobenzene	16.064	284	204	0.037	ng	# 87
25) Phenanthrene	16.796	178	719	0.032	ng	97
26) Anthracene	16.796	178	719	0.035	ng	98
28) Fluoranthene	18.834	202	734	0.024	ng	# 95
30) Pyrene	19.206	202	585	0.119	ng	97
32) Benzo(a)anthracene	21.035	228	1103	0.215	ng	# 83
33) Chrysene	21.035	228	1103	0.217	ng	# 87
34) Bis(2-ethylhexyl)phtha...	21.080	149	1928	0.717	ng	# 51
36) Indeno(1,2,3-cd)pyrene	25.165	276	515	0.048	ng	# 55
37) Benzo(b)fluoranthene	22.484	252	728	0.081	ng	# 26
38) Benzo(k)fluoranthene	22.525	252	680	0.076	ng	# 19
39) Benzo(a)pyrene	23.014	252	345	0.044	ng	# 1
40) Dibenzo(a,h)anthracene	25.177	278	384	0.045	ng	# 1
41) Benzo(g,h,i)perylene	25.776	276	465	0.052	ng	# 23

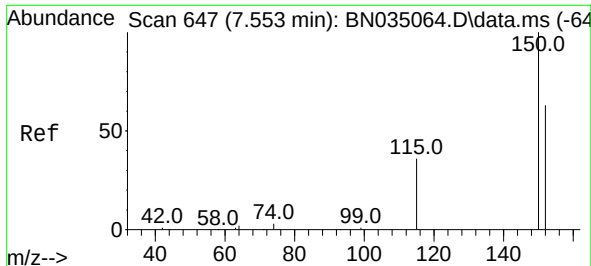
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035225.D
Acq On : 21 Nov 2024 17:00
Operator : RC/JU
Sample : P4866-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

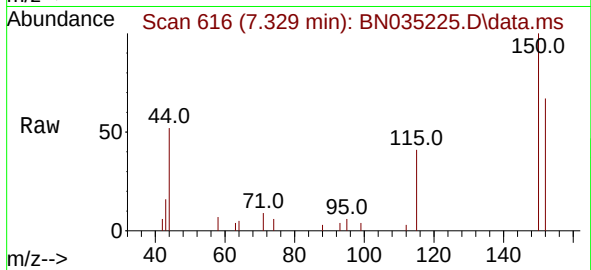
Quant Time: Nov 21 17:25:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



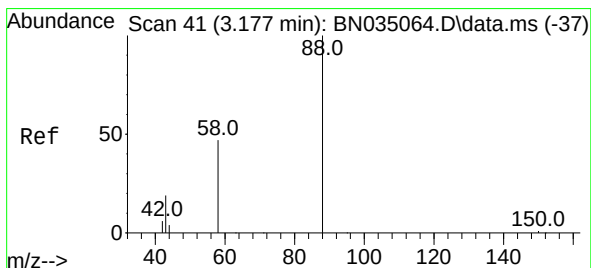
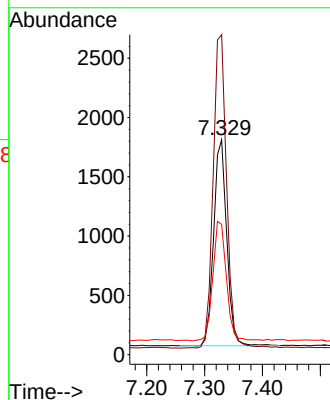
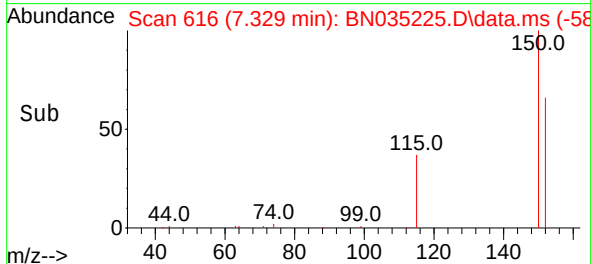


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

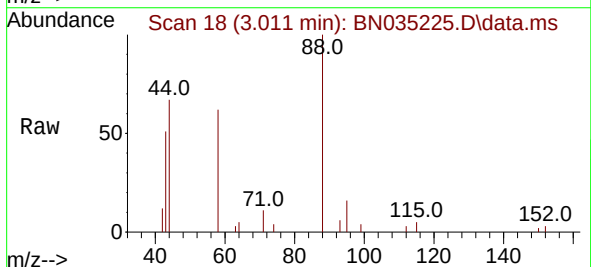
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114



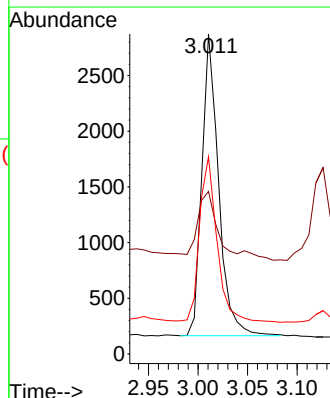
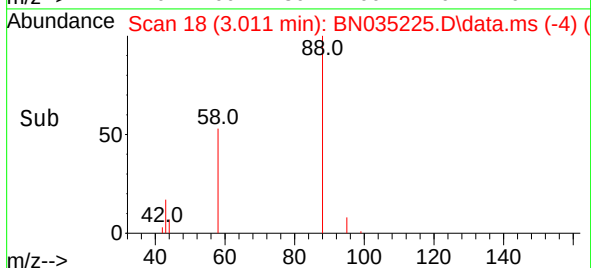
Tgt Ion:152 Resp: 2730
Ion Ratio Lower Upper
152 100
150 149.0 124.5 186.7
115 60.6 47.8 71.6

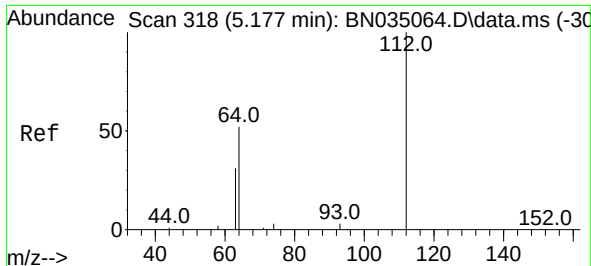


#2
1,4-Dioxane
Concen: 1.284 ng
RT: 3.011 min Scan# 18
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00



Tgt Ion: 88 Resp: 3185
Ion Ratio Lower Upper
88 100
43 29.7 16.9 25.3#
58 57.5 39.0 58.4

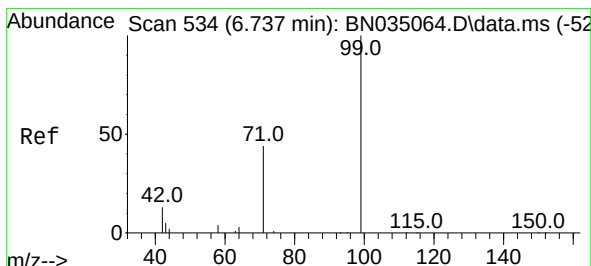
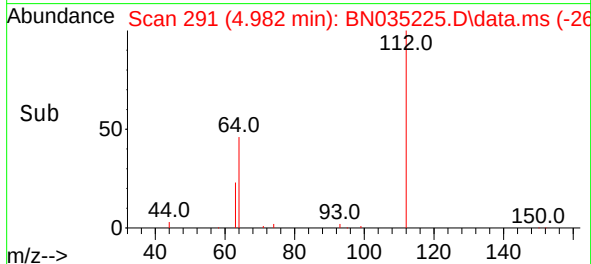
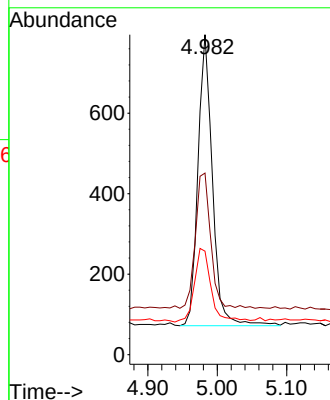
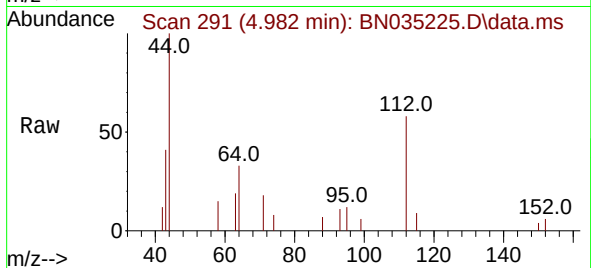




#4
2-Fluorophenol
Concen: 0.151 ng
RT: 4.982 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

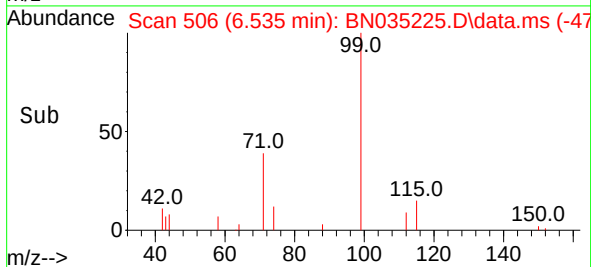
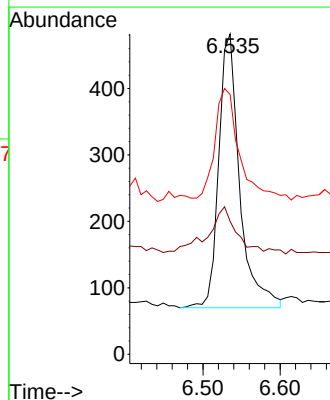
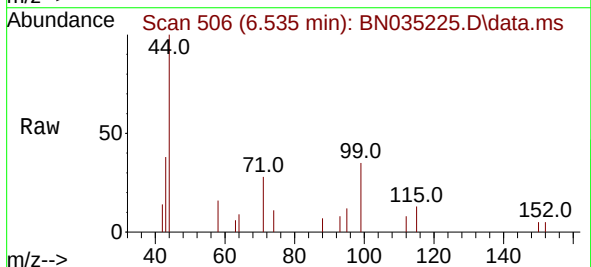
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

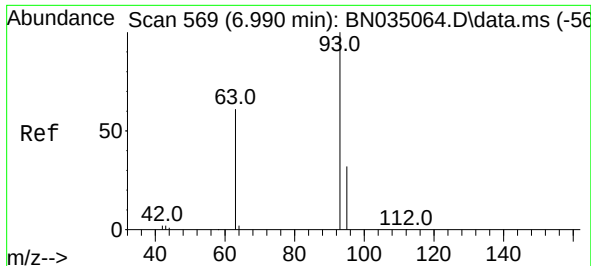
Tgt Ion:112	Resp:	1046
Ion Ratio	Lower	Upper
112	100	
64	48.2	39.7 59.5
63	29.3	23.0 34.4



#5
Phenol-d6
Concen: 0.089 ng
RT: 6.535 min Scan# 506
Delta R.T. 0.007 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion: 99	Resp:	777
Ion Ratio	Lower	Upper
99	100	
42	25.0	11.4 17.0#
71	47.9	34.6 51.8

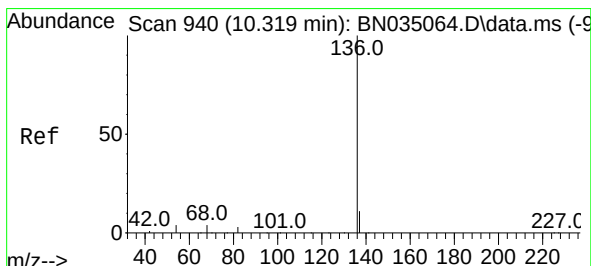
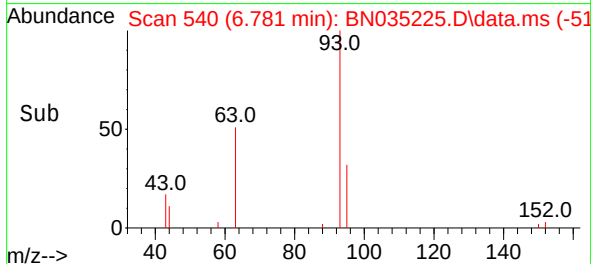
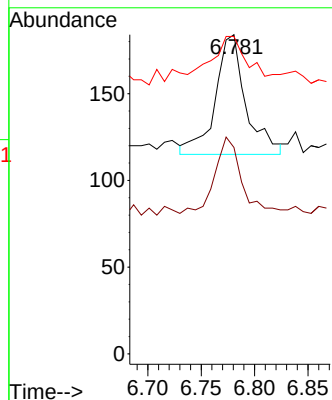
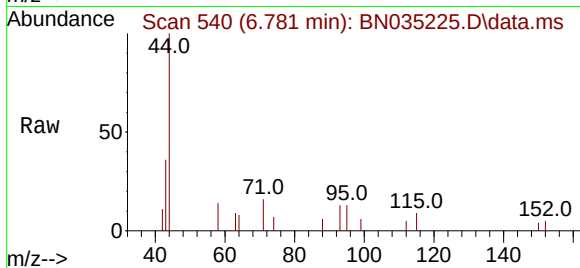




#6
bis(2-Chloroethyl)ether
Concen: 0.021 ng
RT: 6.781 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

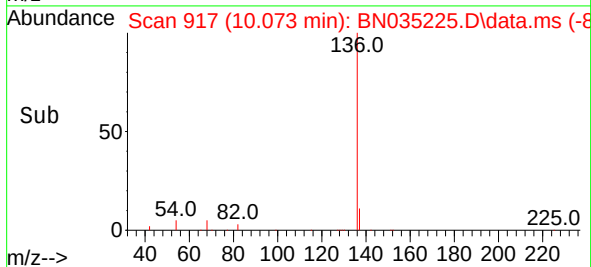
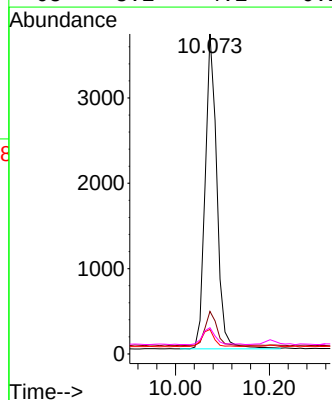
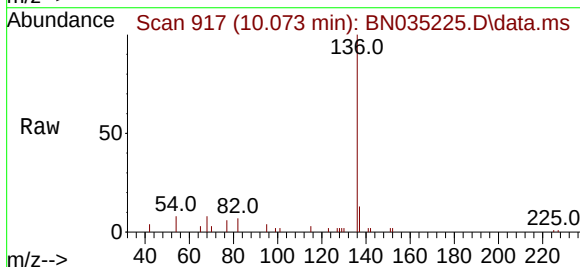
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

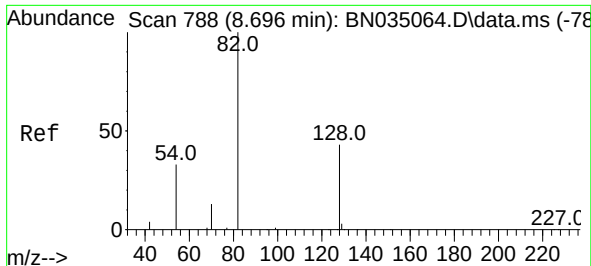
Tgt Ion:	93	Resp:	137
Ion	Ratio	Lower	Upper
93	100		
63	63.5	47.4	71.2
95	61.3	26.2	39.4



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 917
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:	136	Resp:	6373
Ion	Ratio	Lower	Upper
136	100		
137	13.3	9.8	14.8
54	7.6	4.0	6.0
68	8.2	4.2	6.2

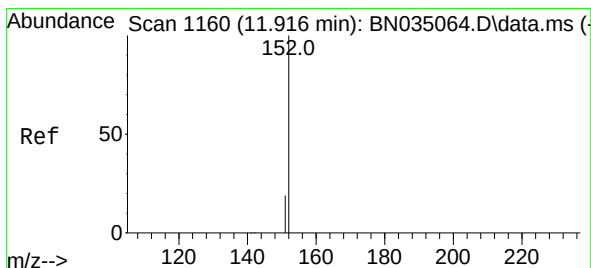
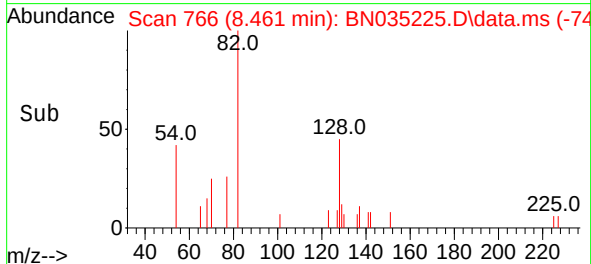
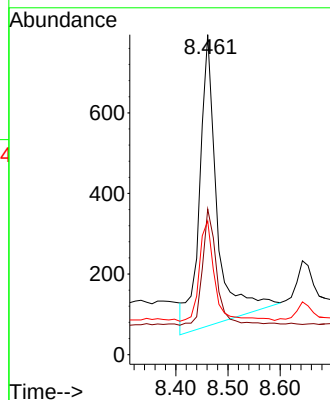
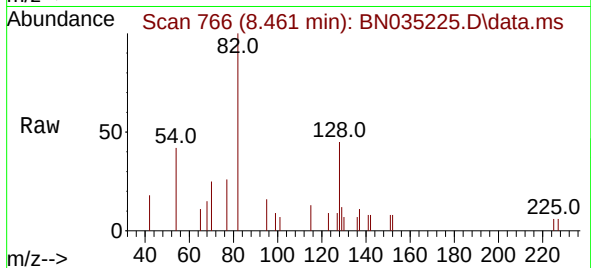




#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.461 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

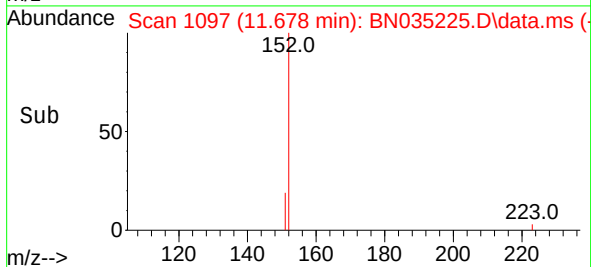
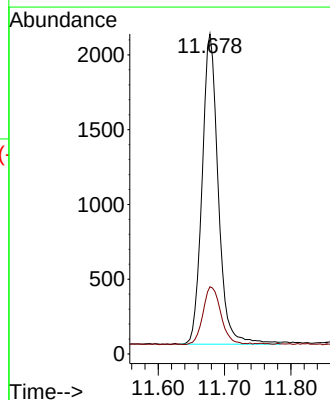
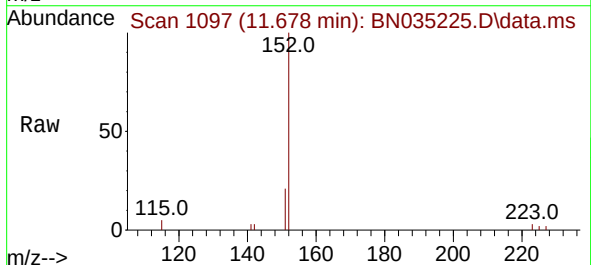
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

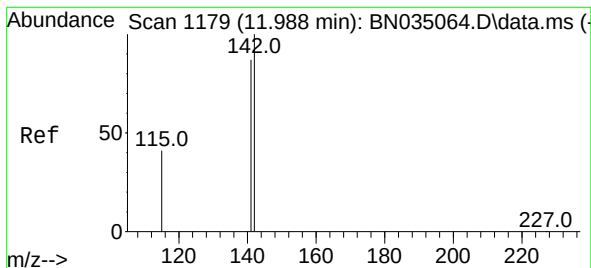
Tgt Ion: 82 Resp: 1697
Ion Ratio Lower Upper
82 100
128 45.5 36.5 54.7
54 41.8 28.7 43.1



#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 11.678 min Scan# 1097
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:152 Resp: 3504
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.4





#12

2-Methylnaphthalene

Concen: 0.020 ng

RT: 11.754 min Scan# 1117

Delta R.T. 0.000 min

Lab File: BN035225.D

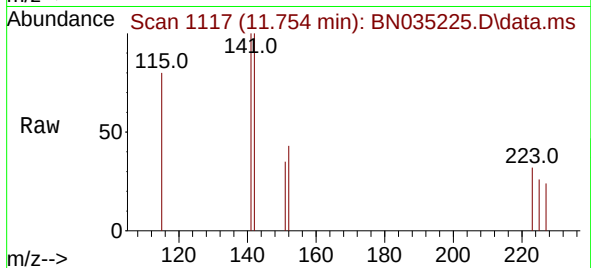
Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241114



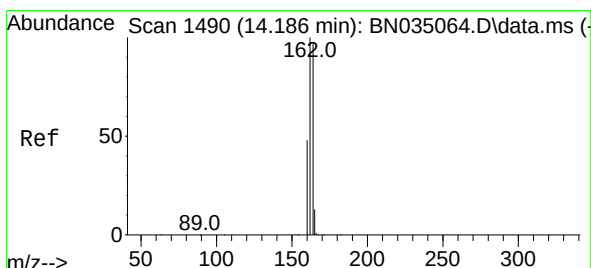
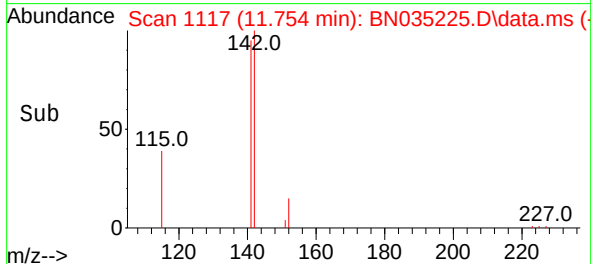
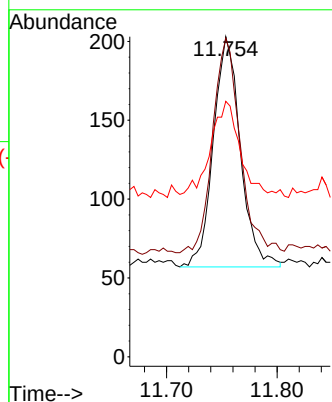
Tgt Ion:142 Resp: 248

Ion Ratio Lower Upper

142 100

141 99.5 70.1 105.1

115 79.8 34.4 51.6#



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.987 min Scan# 1472

Delta R.T. 0.000 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

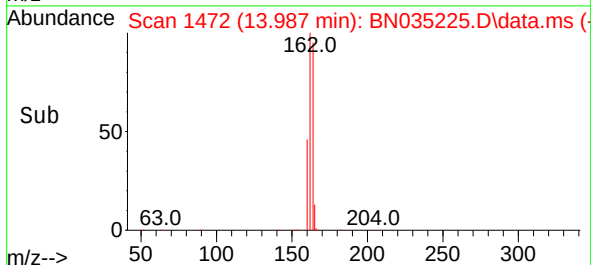
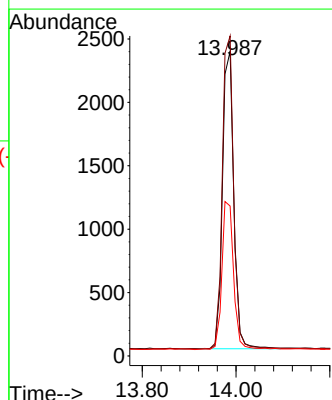
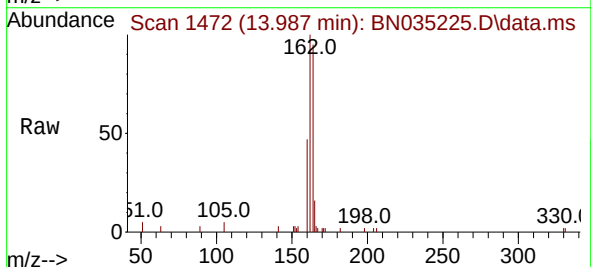
Tgt Ion:164 Resp: 3921

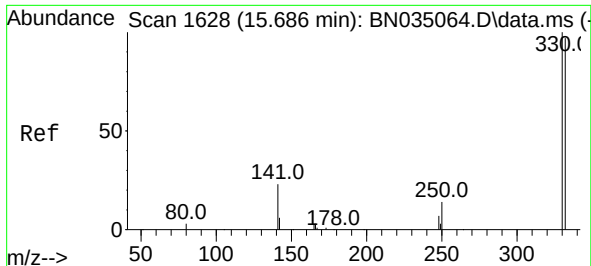
Ion Ratio Lower Upper

164 100

162 105.0 82.2 123.2

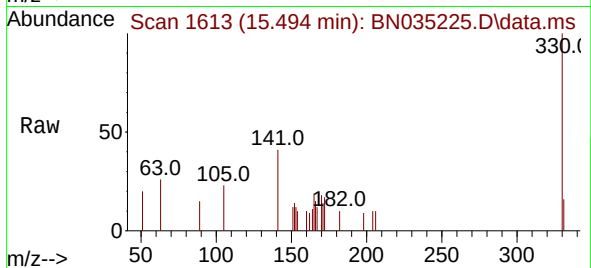
160 49.2 40.2 60.4



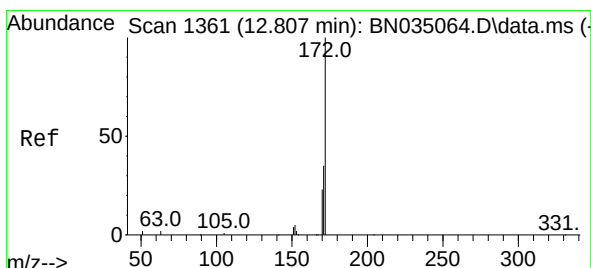
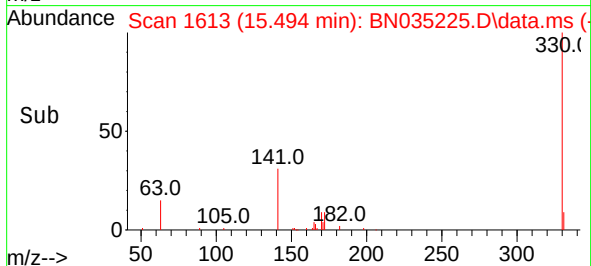
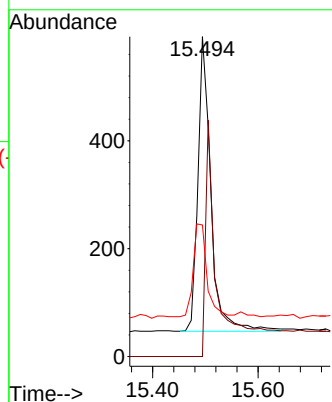


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.494 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

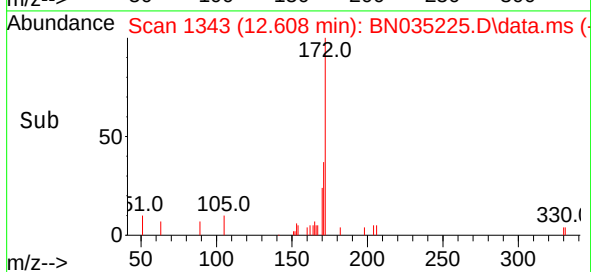
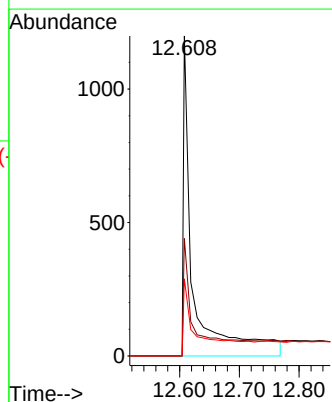
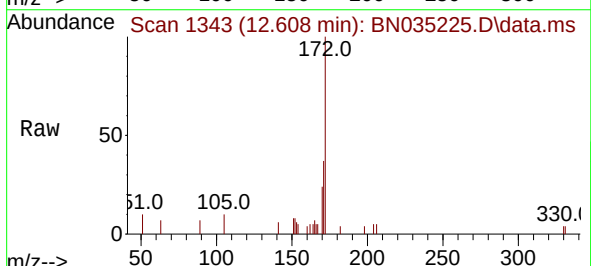


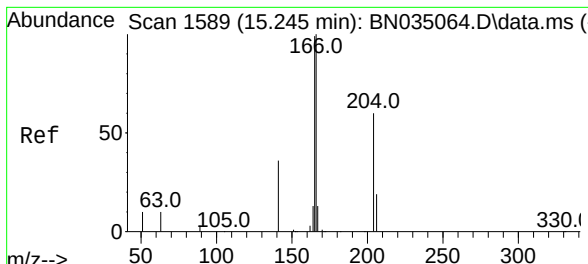
Tgt Ion:330 Resp: 989
Ion Ratio Lower Upper
330 100
332 84.6 76.9 115.3
141 0.0 29.6 44.4#



#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.608 min Scan# 1343
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:172 Resp: 1511
Ion Ratio Lower Upper
172 100
171 36.7 28.2 42.4
170 24.1 19.0 28.6

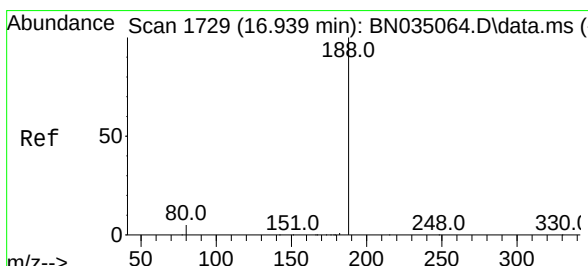
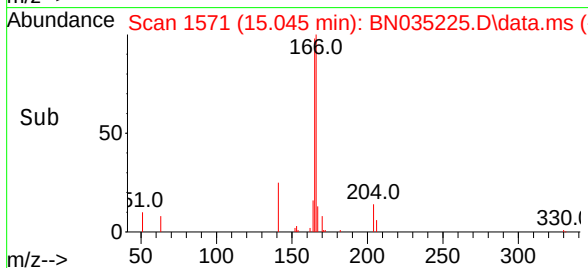
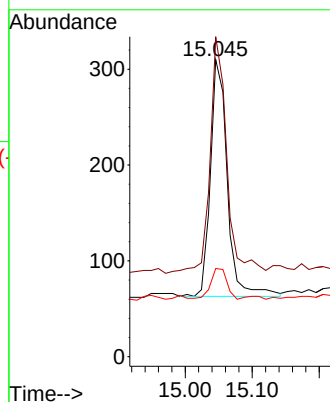
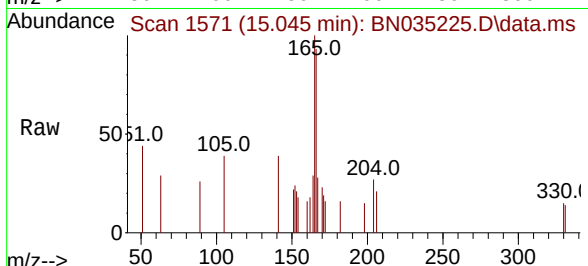




#18
 Fluorene
 Concen: 0.027 ng
 RT: 15.045 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN035225.D
 Acq: 21 Nov 2024 17:00

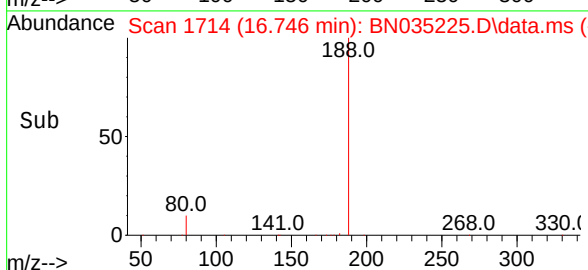
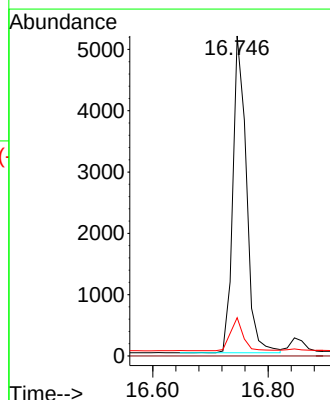
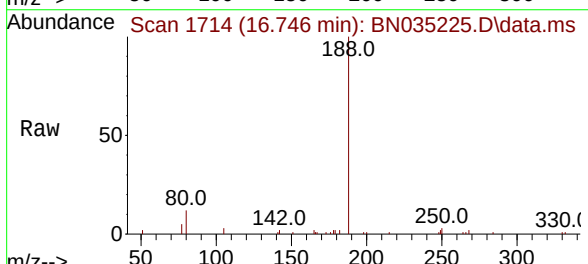
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20241114

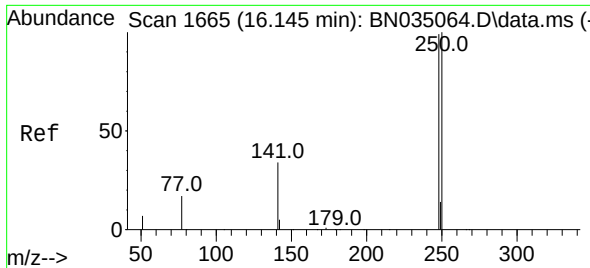
Tgt Ion:	166	Resp:	432
Ion Ratio	Lower	Upper	
166	100		
165	98.8	79.1	118.7
167	13.2	10.6	16.0



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.746 min Scan# 1714
 Delta R.T. 0.000 min
 Lab File: BN035225.D
 Acq: 21 Nov 2024 17:00

Tgt Ion:	188	Resp:	8423
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.0	4.3	6.5

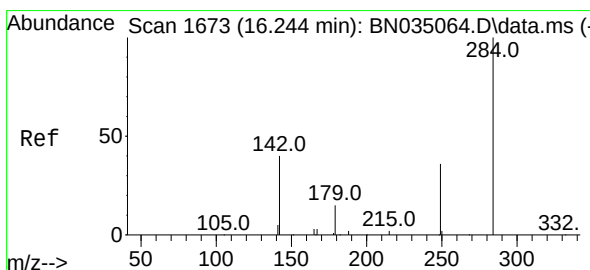
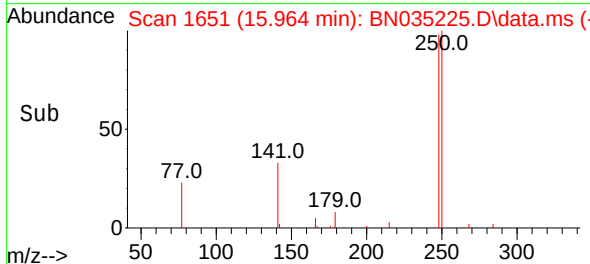
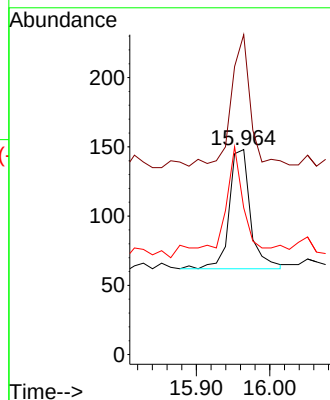
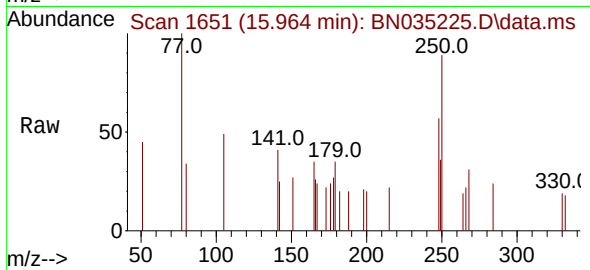




#21
4-Bromophenyl-phenylether
Concen: 0.032 ng
RT: 15.964 min Scan# 1651
Delta R.T. 0.012 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

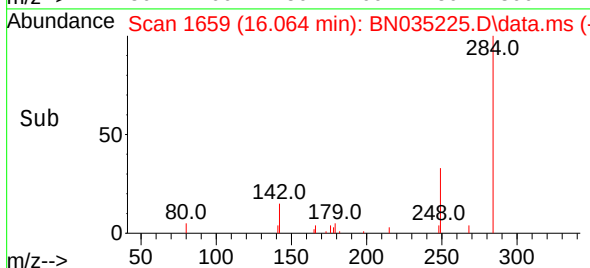
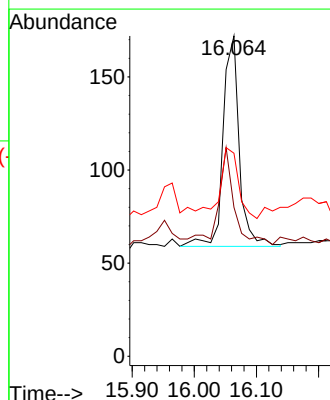
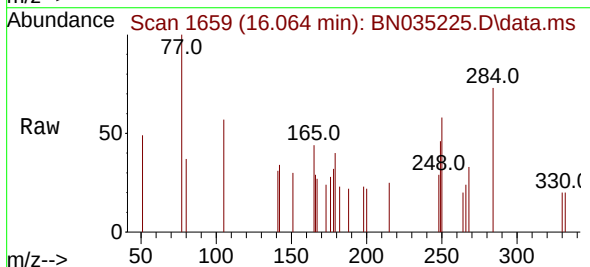
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

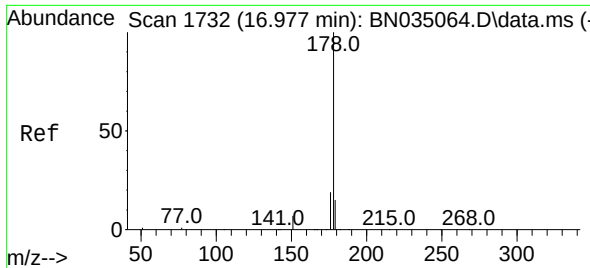
Tgt Ion:	248	Resp:	173
Ion Ratio	Lower	Upper	
248	100		
250	156.1	81.2	121.8#
141	71.6	29.1	43.7#



#22
Hexachlorobenzene
Concen: 0.037 ng
RT: 16.064 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:	284	Resp:	204
Ion Ratio	Lower	Upper	
284	100		
142	44.6	28.2	42.4#
249	38.2	26.2	39.2

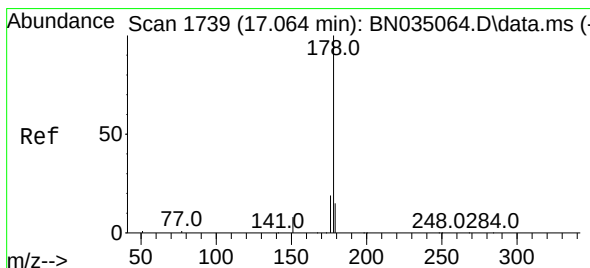
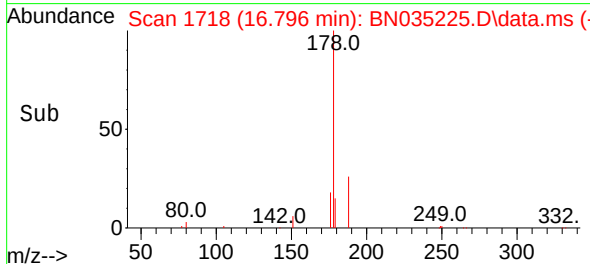
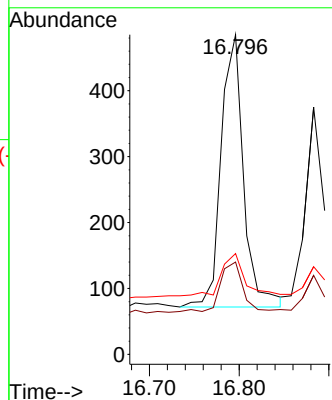
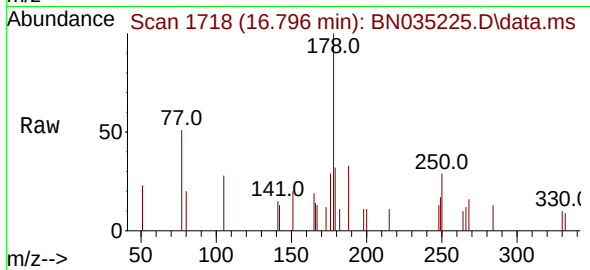




#25
Phenanthrene
Concen: 0.032 ng
RT: 16.796 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

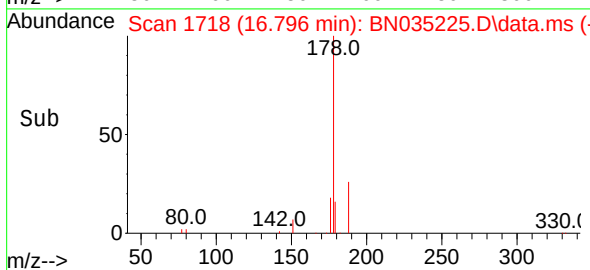
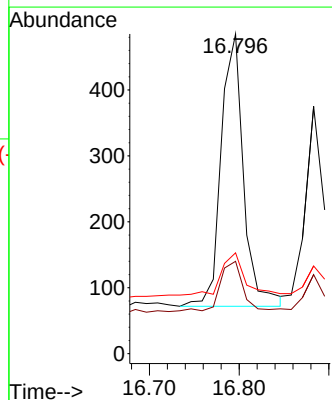
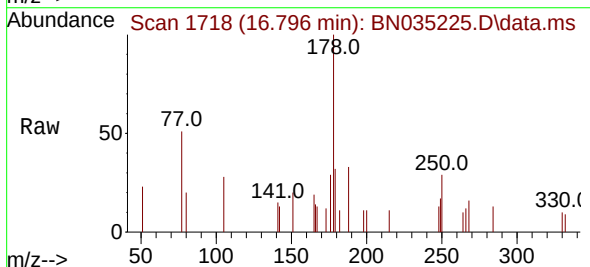
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

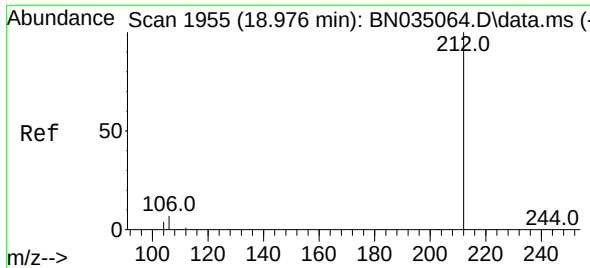
Tgt Ion:	178	Resp:	719
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.2	22.8
179	17.9	12.6	18.8



#26
Anthracene
Concen: 0.035 ng
RT: 16.796 min Scan# 1718
Delta R.T. -0.087 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:	178	Resp:	719
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.6	22.0
179	16.7	12.2	18.2

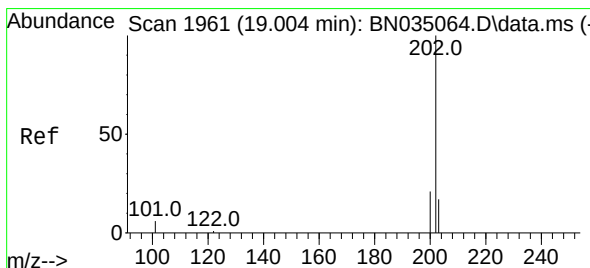
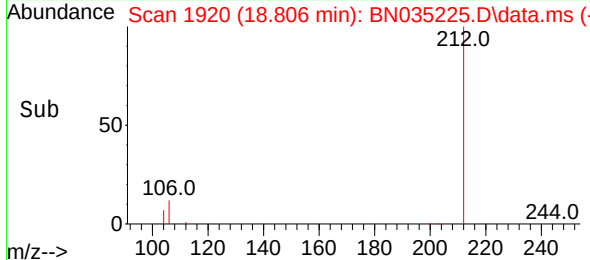
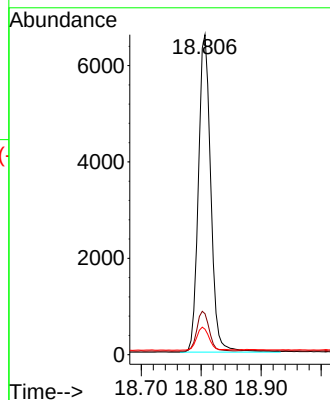
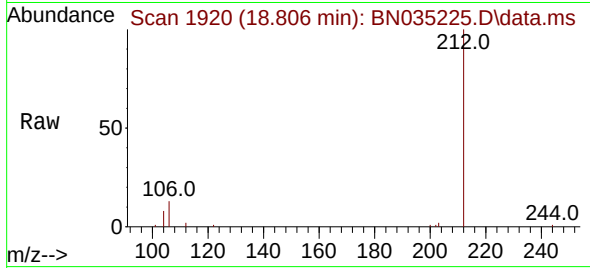




#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 18.806 min Scan# 1920
Delta R.T. 0.000 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

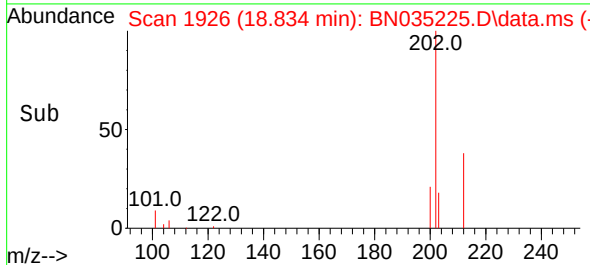
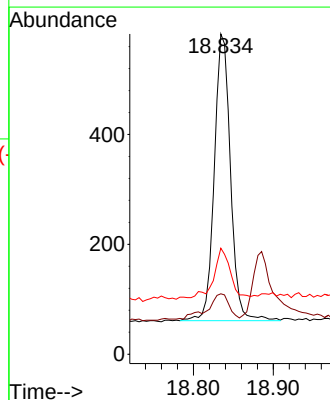
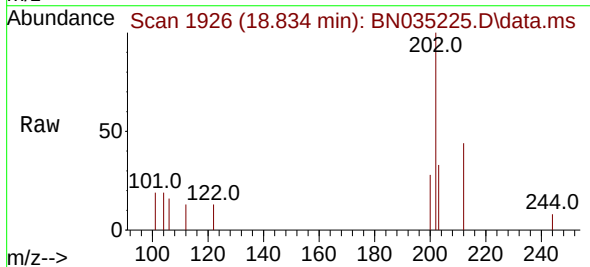
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241114

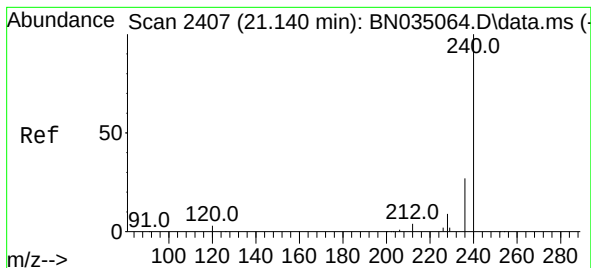
Tgt Ion:	212	Resp:	9431
Ion Ratio	Lower	Upper	
212	100		
106	12.7	6.0	9.0#
104	7.3	3.5	5.3#



#28
Fluoranthene
Concen: 0.024 ng
RT: 18.834 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN035225.D
Acq: 21 Nov 2024 17:00

Tgt Ion:	202	Resp:	734
Ion Ratio	Lower	Upper	
202	100		
101	11.4	5.2	7.8#
203	17.7	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241114

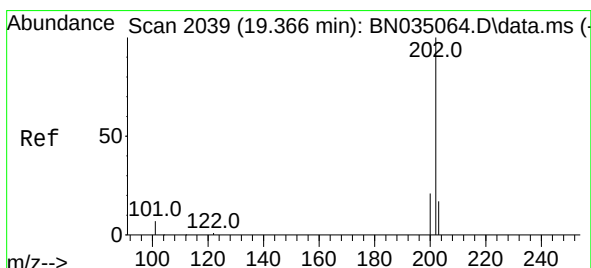
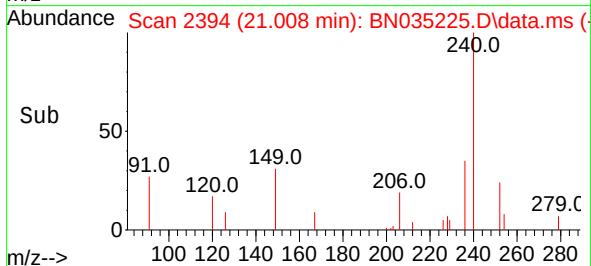
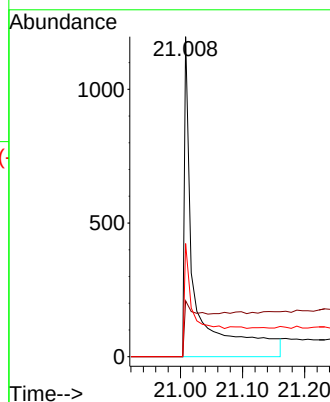
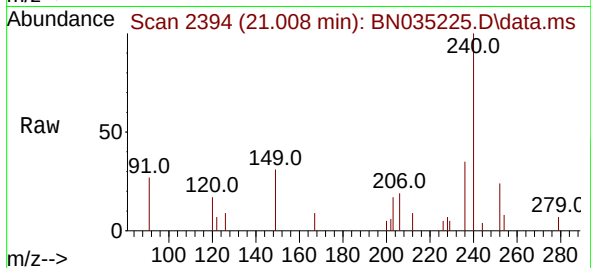
Tgt Ion:240 Resp: 1472

Ion Ratio Lower Upper

240 100

120 17.5 3.8 5.6#

236 35.3 22.2 33.2#



#30

Pyrene

Concen: 0.119 ng

RT: 19.206 min Scan# 2006

Delta R.T. 0.000 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

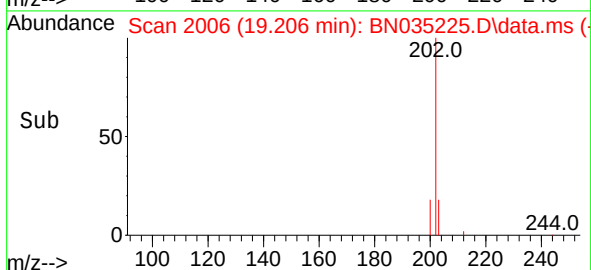
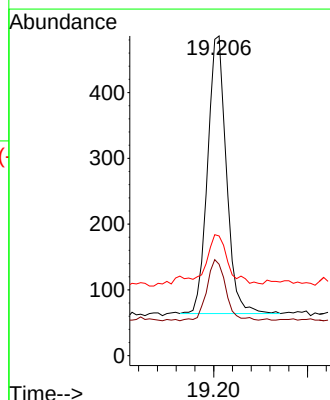
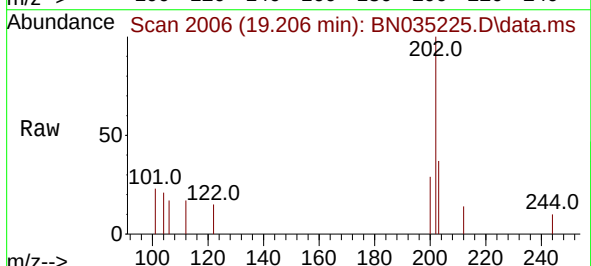
Tgt Ion:202 Resp: 585

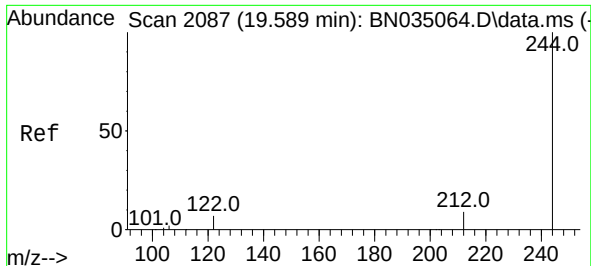
Ion Ratio Lower Upper

202 100

200 22.4 16.7 25.1

203 19.3 14.2 21.4

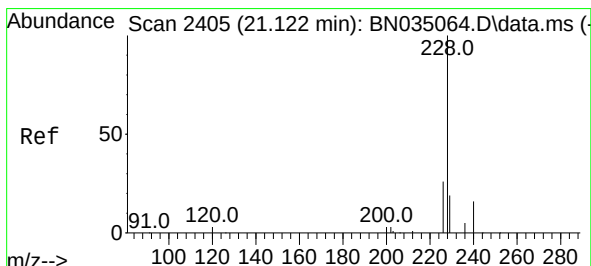
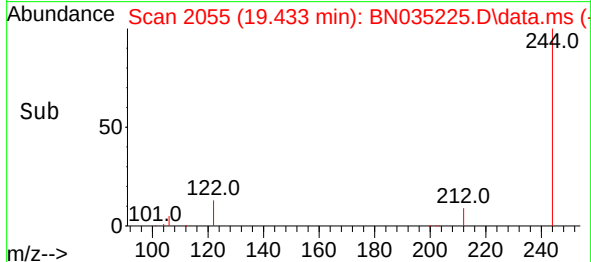
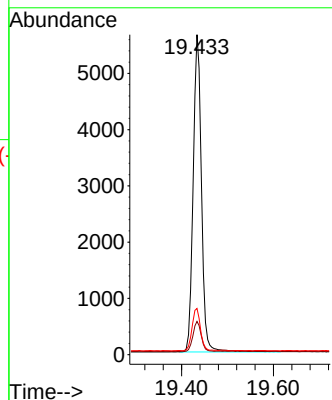
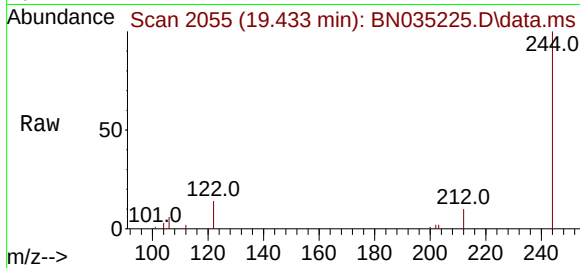




#31
 Terphenyl-d14
 Concen: 2.292 ng
 RT: 19.433 min Scan# 2087
 Delta R.T. -0.005 min
 Lab File: BN035225.D
 Acq: 21 Nov 2024 17:00

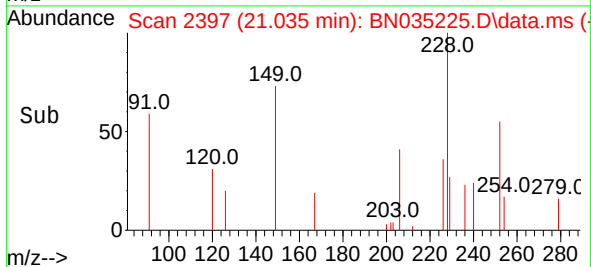
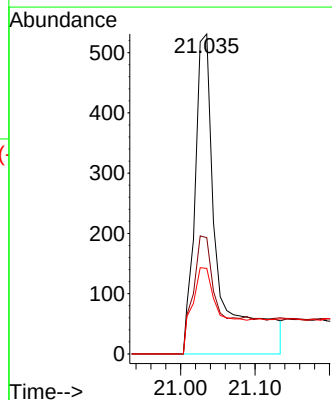
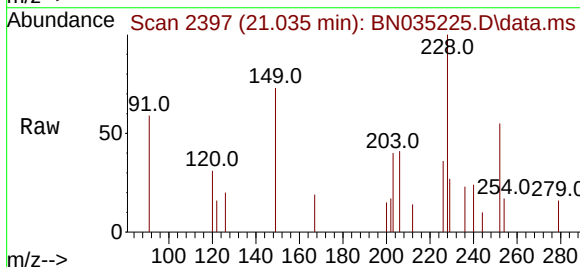
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20241114

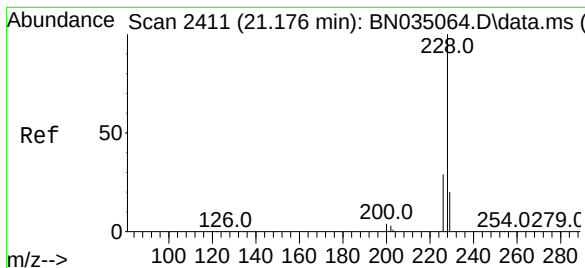
Tgt Ion:244 Resp: 7079
 Ion Ratio Lower Upper
 244 100
 212 10.4 7.6 11.4
 122 14.5 6.1 9.1#



#32
 Benzo(a)anthracene
 Concen: 0.215 ng
 RT: 21.035 min Scan# 2397
 Delta R.T. 0.000 min
 Lab File: BN035225.D
 Acq: 21 Nov 2024 17:00

Tgt Ion:228 Resp: 1103
 Ion Ratio Lower Upper
 228 100
 226 36.3 21.4 32.0#
 229 26.7 15.7 23.5#





#33

Chrysene

Concen: 0.217 ng

RT: 21.035 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241114

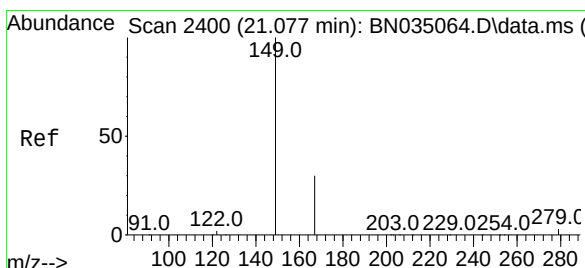
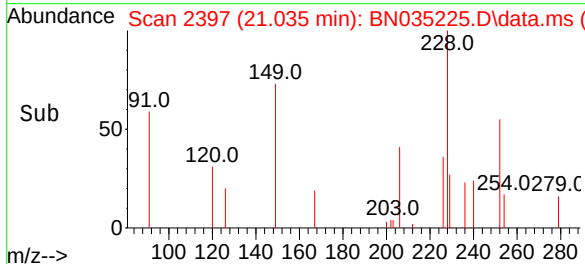
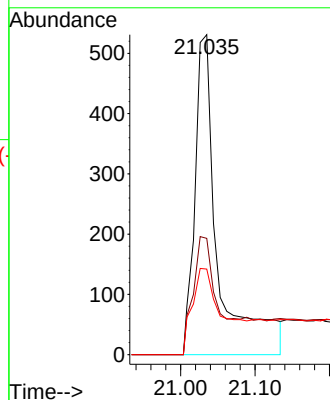
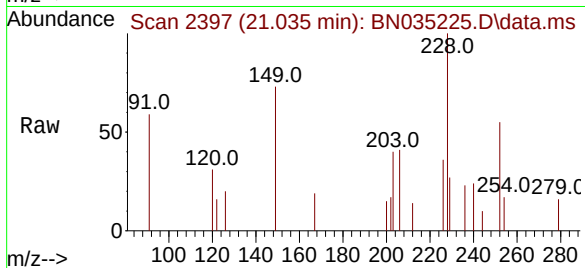
Tgt Ion:228 Resp: 1103

Ion Ratio Lower Upper

228 100

226 36.3 23.7 35.5#

229 26.7 16.2 24.4#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.717 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.054 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

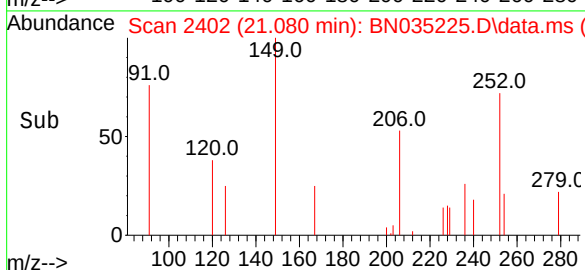
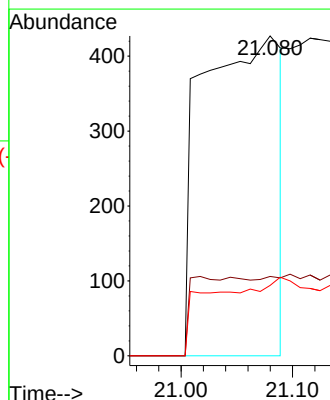
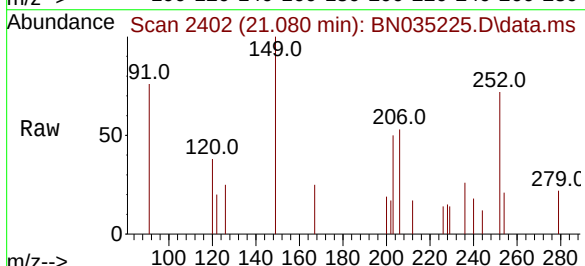
Tgt Ion:149 Resp: 1928

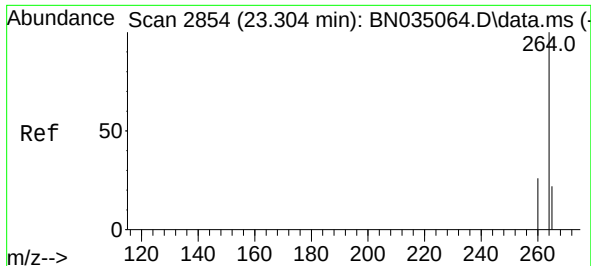
Ion Ratio Lower Upper

149 100

167 0.0 23.2 34.8#

279 0.0 3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.104 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035225.D

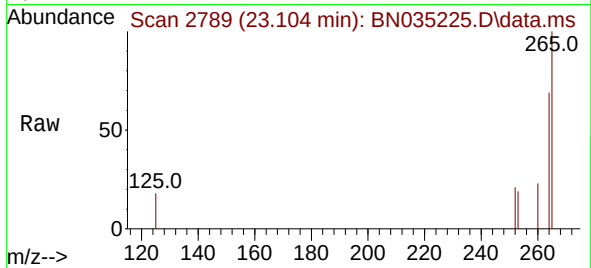
Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241114



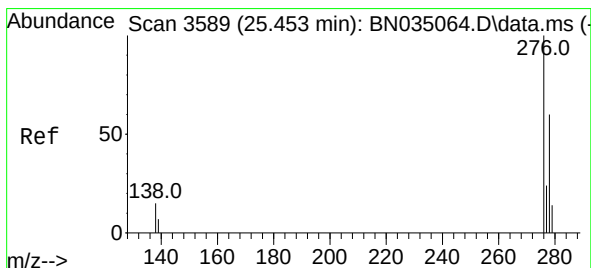
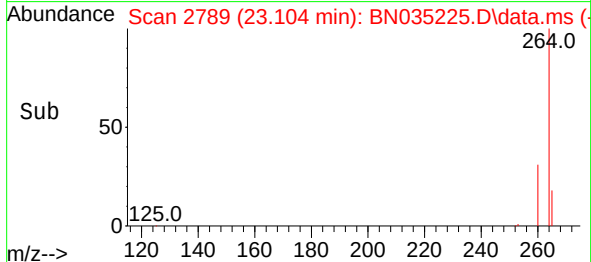
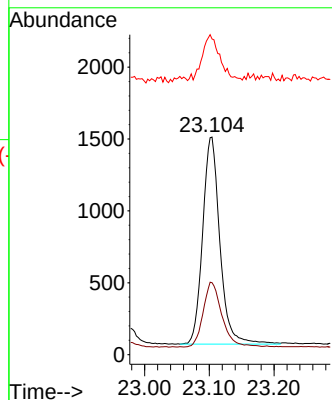
Tgt Ion:264 Resp: 2672

Ion Ratio Lower Upper

264 100

260 33.1 20.9 31.3#

265 145.0 35.4 53.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.048 ng

RT: 25.165 min Scan# 3494

Delta R.T. 0.009 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

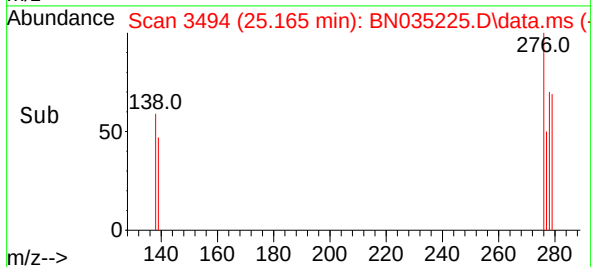
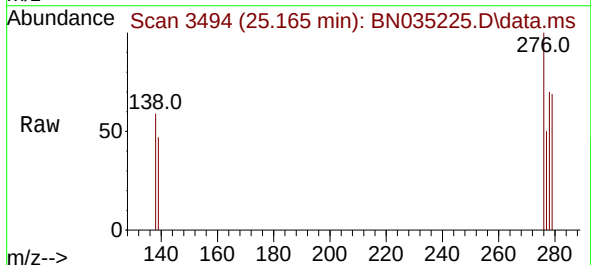
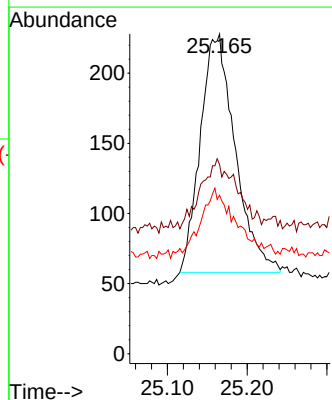
Tgt Ion:276 Resp: 515

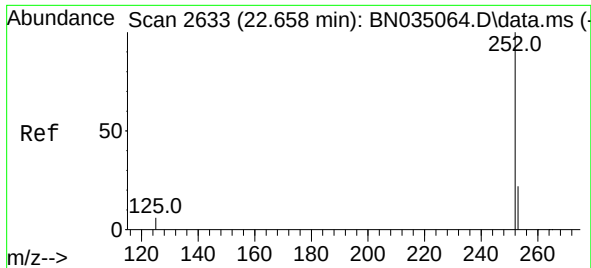
Ion Ratio Lower Upper

276 100

138 0.0 13.0 19.4#

277 0.0 19.8 29.6#





#37

Benzo(b)fluoranthene

Concen: 0.081 ng

RT: 22.484 min Scan# 2591

Delta R.T. -0.003 min

Lab File: BN035225.D

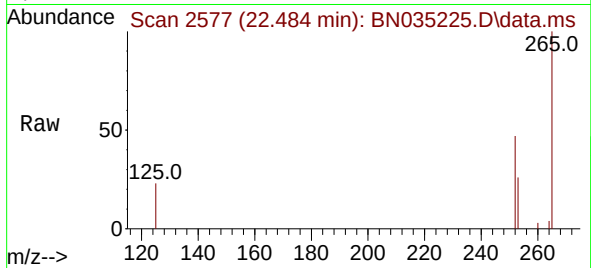
Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241114



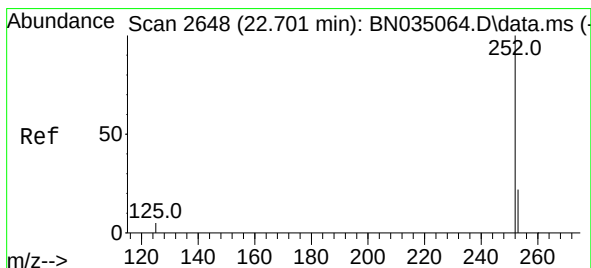
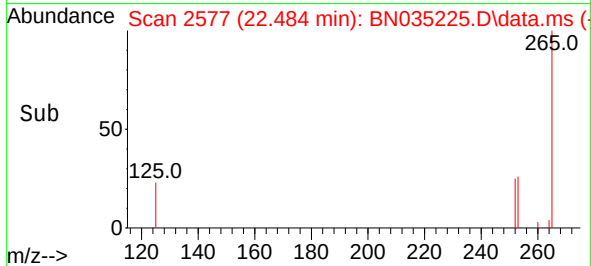
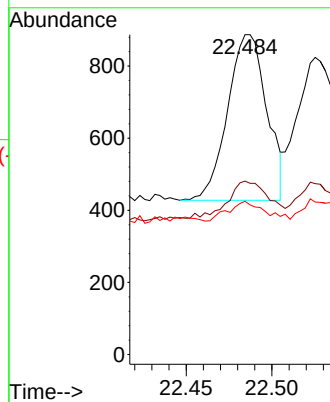
Tgt Ion:252 Resp: 728

Ion Ratio Lower Upper

252 100

253 54.2 19.3 28.9#

125 47.9 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 0.076 ng

RT: 22.525 min Scan# 2591

Delta R.T. -0.003 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

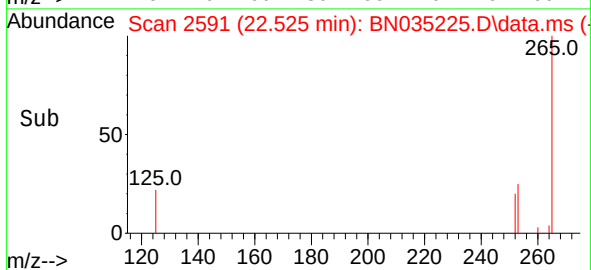
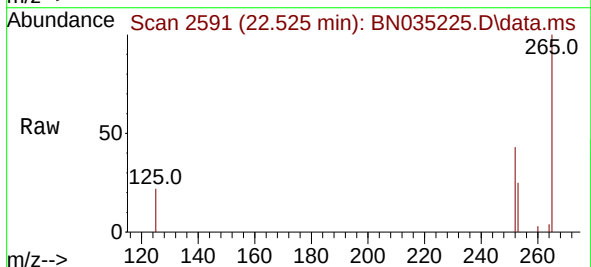
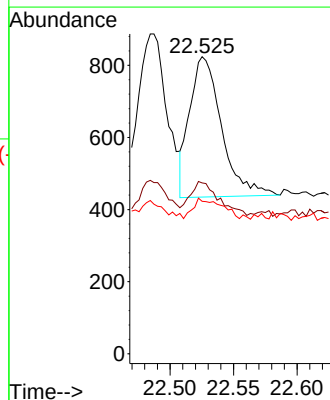
Tgt Ion:252 Resp: 680

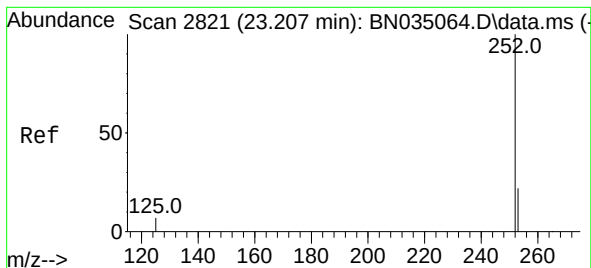
Ion Ratio Lower Upper

252 100

253 57.5 19.5 29.3#

125 51.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.044 ng

RT: 23.014 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035225.D

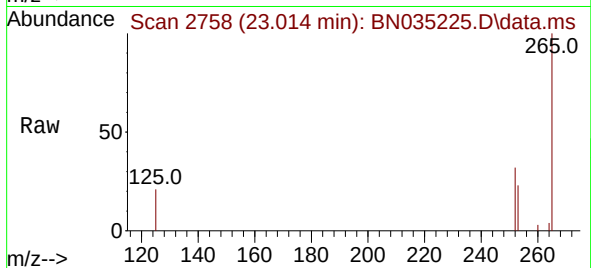
Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241114



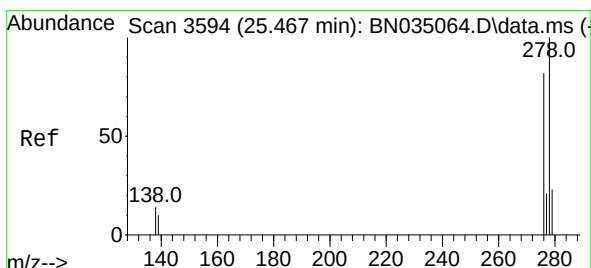
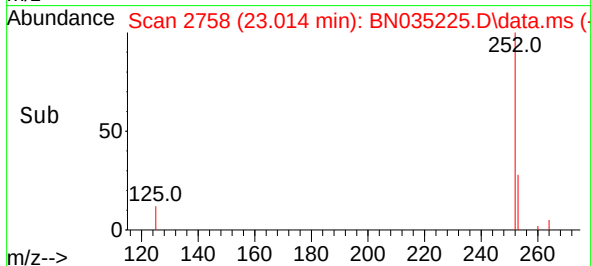
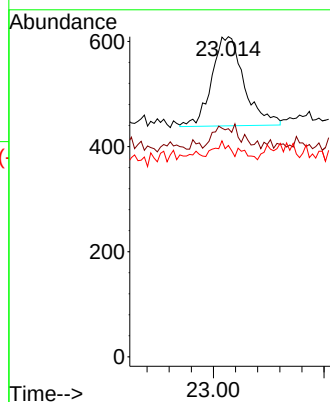
Tgt Ion:252 Resp: 345

Ion Ratio Lower Upper

252 100

253 71.3 20.1 30.1#

125 66.0 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.045 ng

RT: 25.177 min Scan# 3498

Delta R.T. 0.000 min

Lab File: BN035225.D

Acq: 21 Nov 2024 17:00

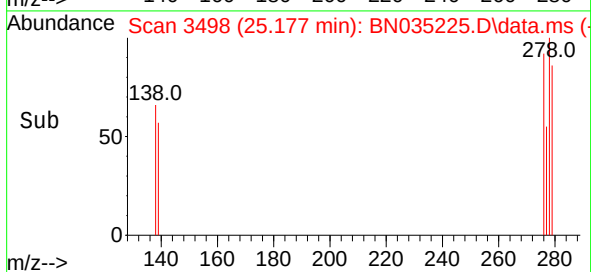
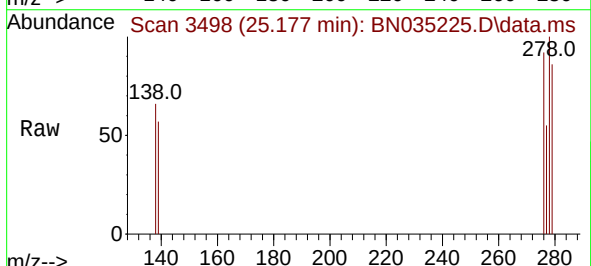
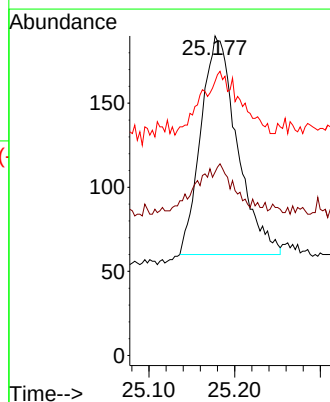
Tgt Ion:278 Resp: 384

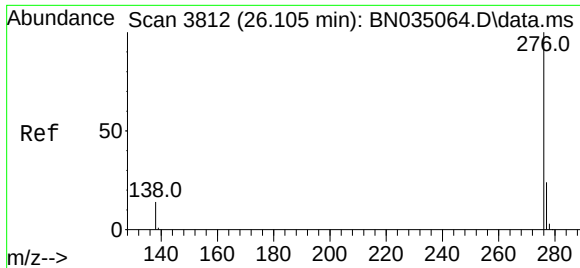
Ion Ratio Lower Upper

278 100

139 57.4 9.3 13.9#

279 85.8 19.7 29.5#





#41

Benzo(g,h,i)perylene

Concen: 0.052 ng

RT: 25.776 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035225.D

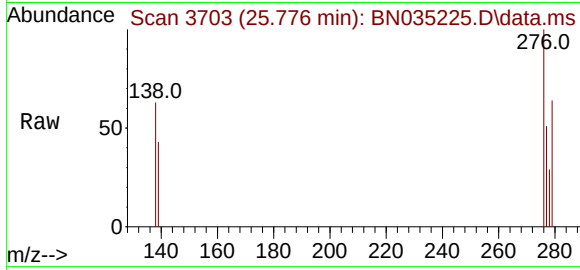
Acq: 21 Nov 2024 17:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241114



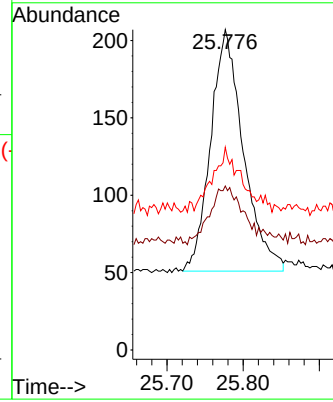
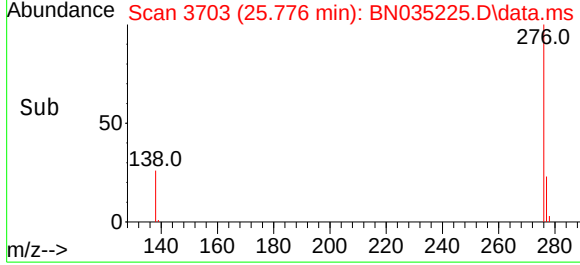
Tgt Ion:276 Resp: 465

Ion Ratio Lower Upper

276 100

277 51.2 19.9 29.9#

138 63.3 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035226.D
 Acq On : 21 Nov 2024 17:36
 Operator : RC/JU
 Sample : PB165012BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165012BS

Quant Time: Nov 21 23:04:32 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

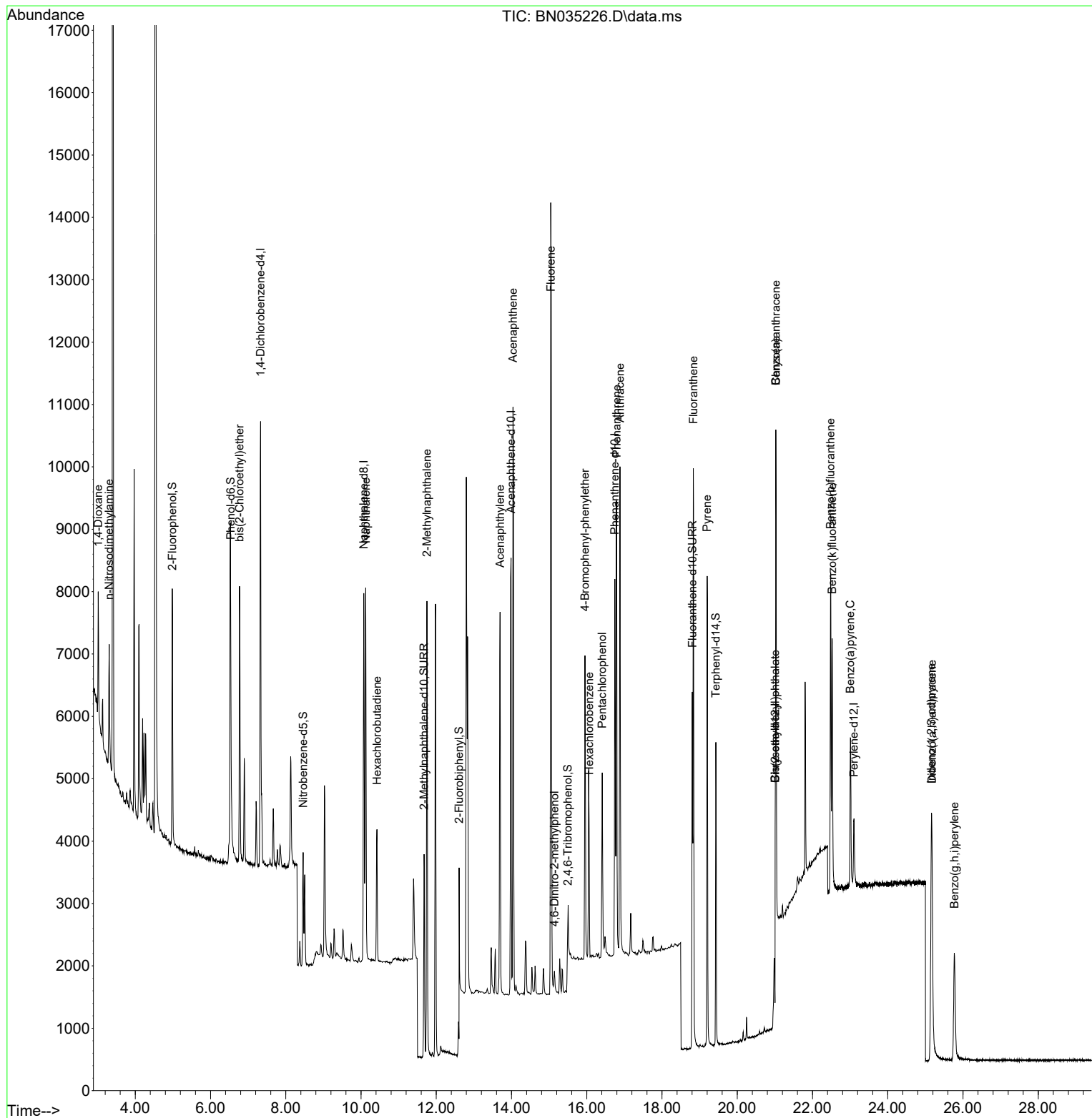
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3340	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7691	0.400	ng	# 0.00
13) Acenaphthene-d10	13.986	164	4263	0.400	ng	0.00
19) Phenanthrene-d10	16.746	188	8289	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1030	0.400	ng	# 0.00
35) Perylene-d12	23.101	264	1173	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.989	112	3292	0.388	ng	0.00
5) Phenol-d6	6.534	99	3928	0.369	ng	0.00
8) Nitrobenzene-d5	8.461	82	1858	0.278	ng	0.00
11) 2-Methylnaphthalene-d10	11.677	152	4481	0.327	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	954	0.310	ng	0.00
15) 2-Fluorobiphenyl	12.607	172	1496	0.086	ng	0.00
27) Fluoranthene-d10	18.806	212	6678	0.263	ng	0.00
31) Terphenyl-d14	19.433	244	4805	2.223	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.017	88	1150	0.379	ng	# 58
3) n-Nitrosodimethylamine	3.306	42	1040	0.368	ng	# 99
6) bis(2-Chloroethyl)ether	6.773	93	3339	0.418	ng	95
9) Naphthalene	10.126	128	8021	0.399	ng	99
10) Hexachlorobutadiene	10.425	225	1793	0.305	ng	# 99
12) 2-Methylnaphthalene	11.753	142	5384	0.363	ng	97
16) Acenaphthylene	13.698	152	7197	0.395	ng	99
17) Acenaphthene	14.040	154	4817	0.403	ng	98
18) Fluorene	15.045	166	6416	0.365	ng	99
20) 4,6-Dinitro-2-methylph...	15.141	198	296	0.172	ng	# 22
21) 4-Bromophenyl-phenylether	15.951	248	2101	0.398	ng	# 77
22) Hexachlorobenzene	16.063	284	2505	0.457	ng	97
24) Pentachlorophenol	16.411	266	1606	0.627	ng	96
25) Phenanthrene	16.795	178	8986	0.412	ng	99
26) Anthracene	16.882	178	8282	0.413	ng	99
28) Fluoranthene	18.834	202	8504	0.283	ng	# 98
30) Pyrene	19.201	202	6940	2.023	ng	99
32) Benzo(a)anthracene	21.026	228	7390	2.061	ng	# 94
33) Chrysene	21.026	228	7390	2.080	ng	97
34) Bis(2-ethylhexyl)phtha...	21.008	149	891	0.473	ng	# 81
36) Indeno(1,2,3-cd)pyrene	25.159	276	4451	0.951	ng	# 88
37) Benzo(b)fluoranthene	22.481	252	5897	1.494	ng	# 87
38) Benzo(k)fluoranthene	22.522	252	4976	1.260	ng	# 84
39) Benzo(a)pyrene	23.007	252	3441	0.991	ng	# 75
40) Dibenzo(a,h)anthracene	25.174	278	4731	1.276	ng	# 83
41) Benzo(g,h,i)perylene	25.770	276	3544	0.899	ng	# 83

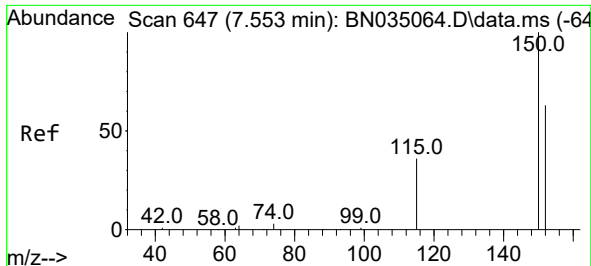
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035226.D
Acq On : 21 Nov 2024 17:36
Operator : RC/JU
Sample : PB165012BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165012BS

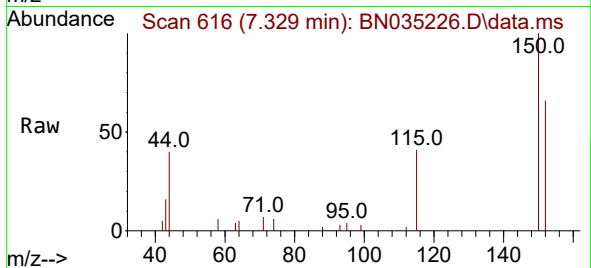
Quant Time: Nov 21 23:04:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



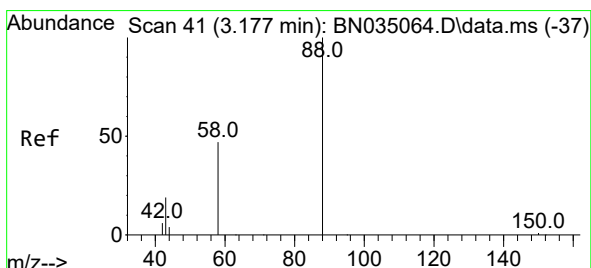
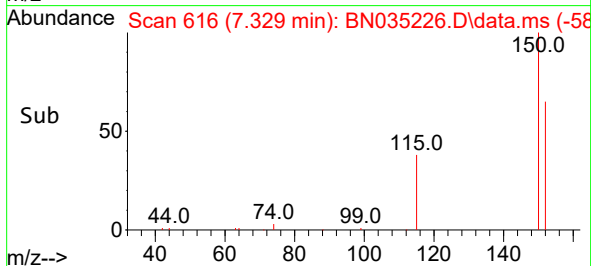
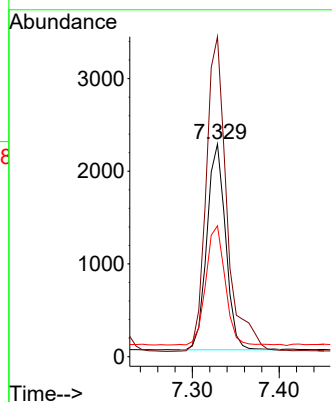


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

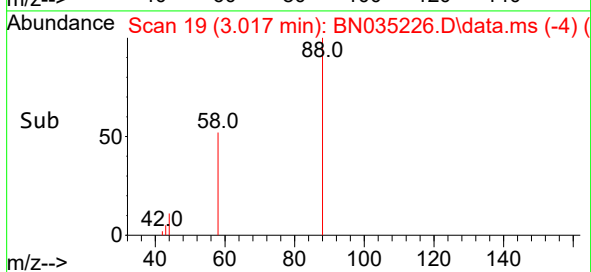
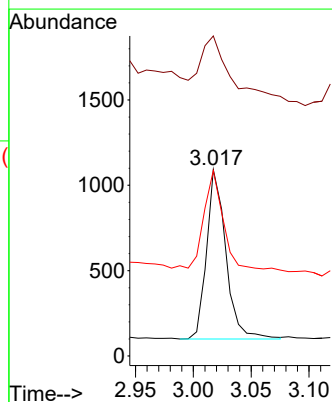
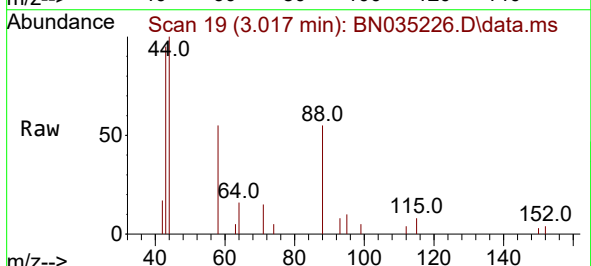


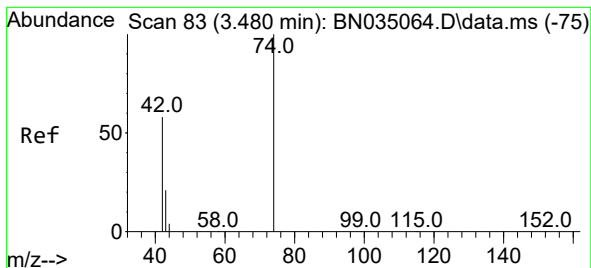
Tgt Ion:152 Resp: 3340
Ion Ratio Lower Upper
152 100
150 150.5 124.5 186.7
115 61.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.017 min Scan# 19
Delta R.T. 0.007 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion: 88 Resp: 1150
Ion Ratio Lower Upper
88 100
43 60.6 16.9 25.3#
58 64.3 39.0 58.4#





#3

n-Nitrosodimethylamine

Concen: 0.368 ng

RT: 3.306 min Scan# 51

Delta R.T. -0.001 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

Instrument :

BNA_N

ClientSampleId :

PB165012BS

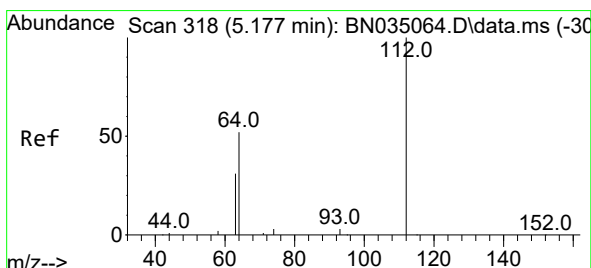
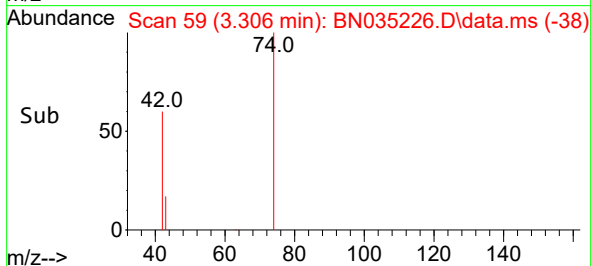
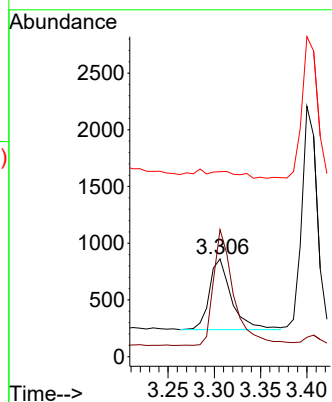
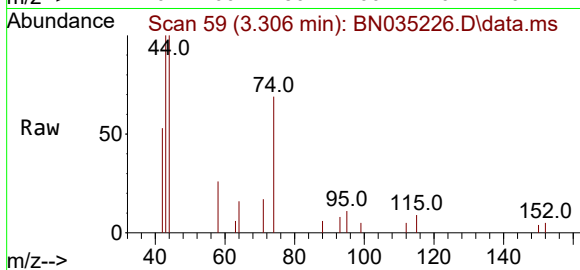
Tgt Ion: 42 Resp: 1040

Ion Ratio Lower Upper

42 100

74 151.4 120.8 181.2

44 0.0 2.9 4.3#



#4

2-Fluorophenol

Concen: 0.388 ng

RT: 4.989 min Scan# 292

Delta R.T. 0.007 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

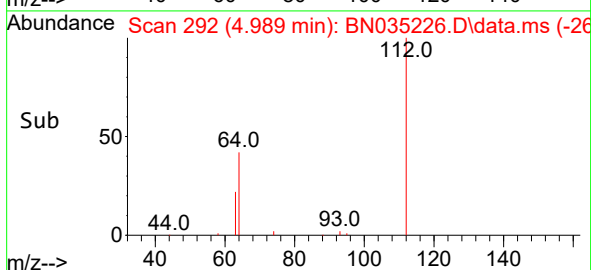
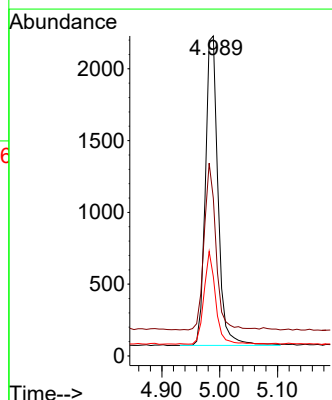
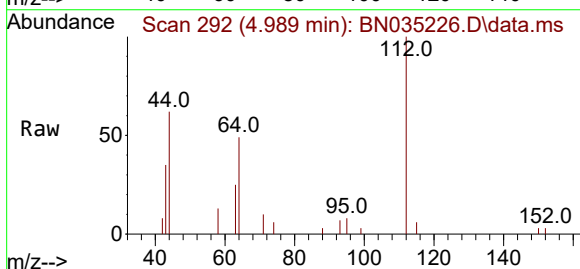
Tgt Ion: 112 Resp: 3292

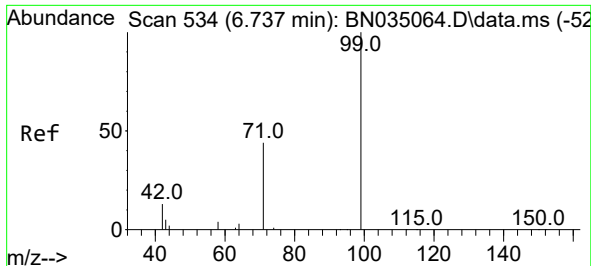
Ion Ratio Lower Upper

112 100

64 50.4 39.7 59.5

63 27.5 23.0 34.4

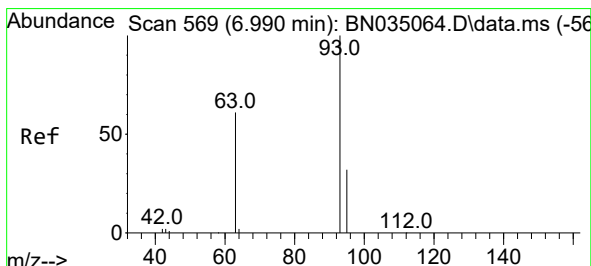
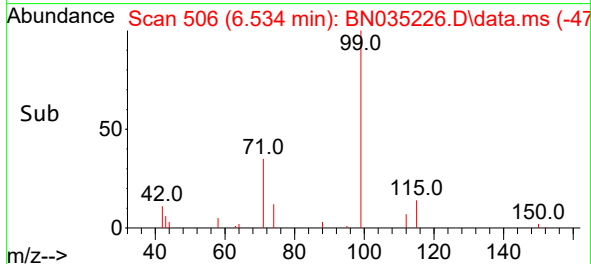
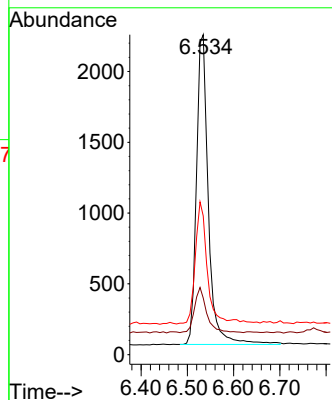
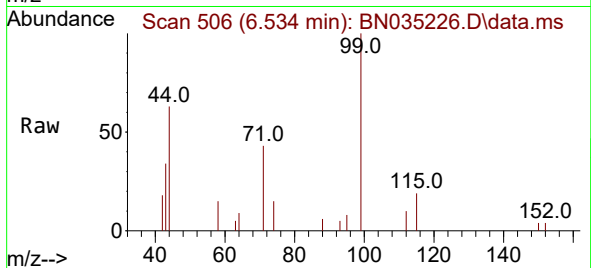




#5
Phenol-d6
Concen: 0.369 ng
RT: 6.534 min Scan# 506
Delta R.T. 0.007 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

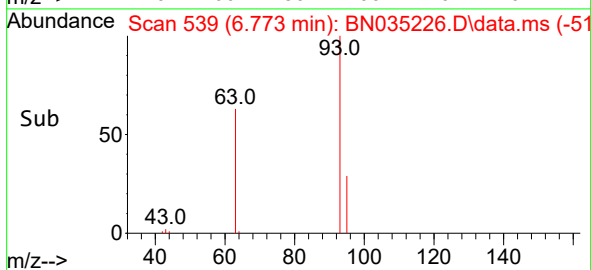
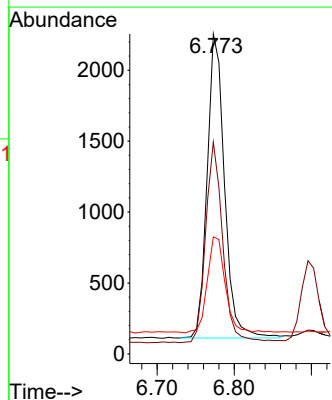
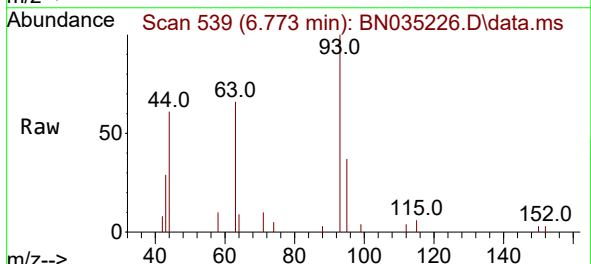
Instrument :
BNA_N
ClientSampleId :
PB165012BS

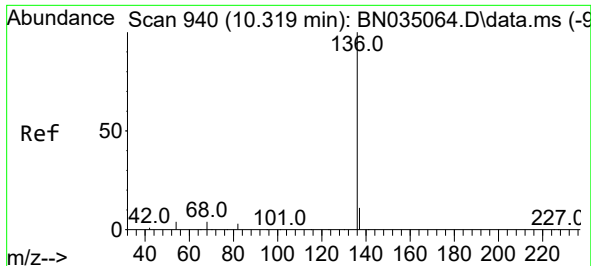
Tgt Ion: 99 Resp: 3928
Ion Ratio Lower Upper
99 100
42 14.9 11.4 17.0
71 38.8 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.418 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion: 93 Resp: 3339
Ion Ratio Lower Upper
93 100
63 64.8 47.4 71.2
95 32.8 26.2 39.4

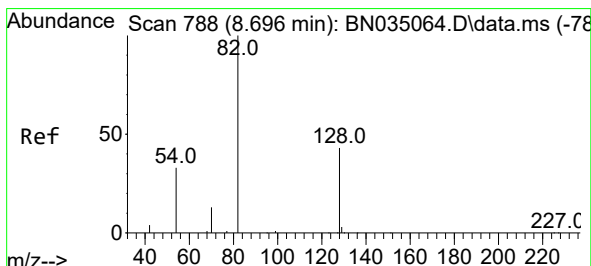
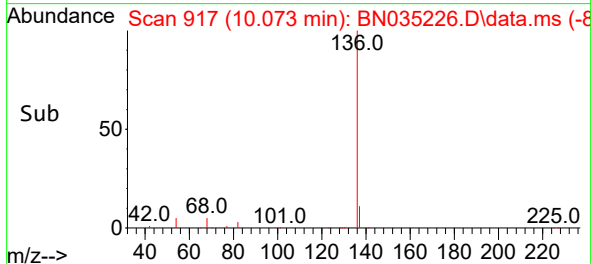
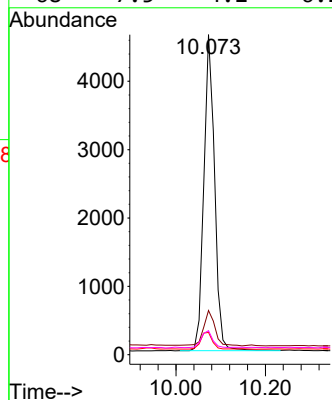
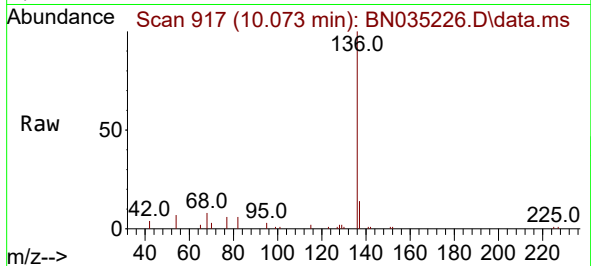




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 91
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

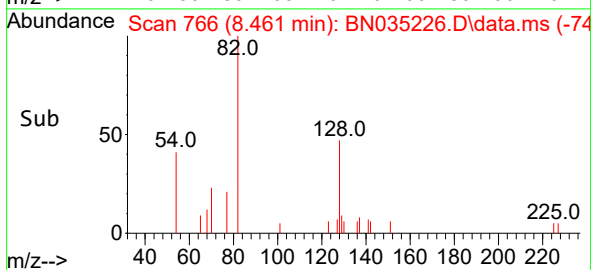
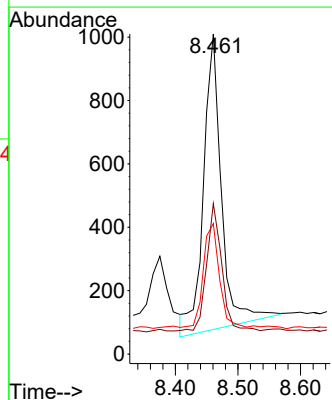
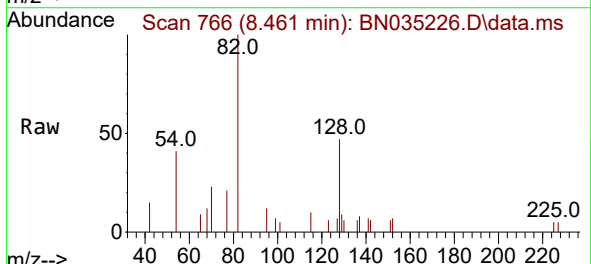
Instrument :
BNA_N
ClientSampleId :
PB165012BS

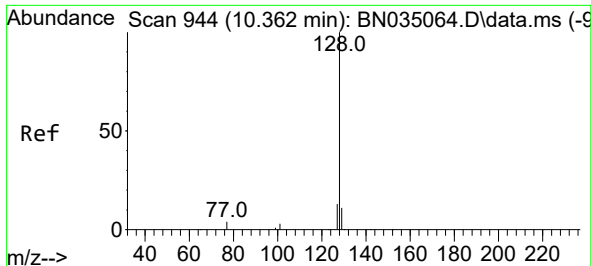
Tgt Ion:	136	Resp:	7691
Ion Ratio	Lower	Upper	
136	100		
137	13.8	9.8	14.8
54	6.9	4.0	6.0#
68	7.5	4.2	6.2#



#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.461 min Scan# 766
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:	82	Resp:	1858
Ion Ratio	Lower	Upper	
82	100		
128	47.0	36.5	54.7
54	40.8	28.7	43.1

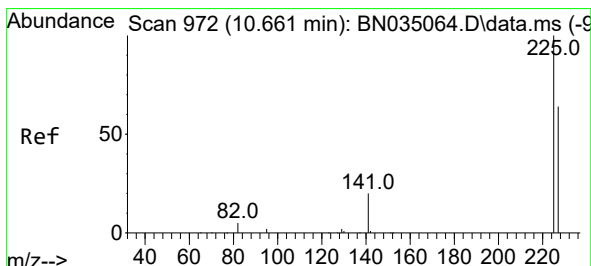
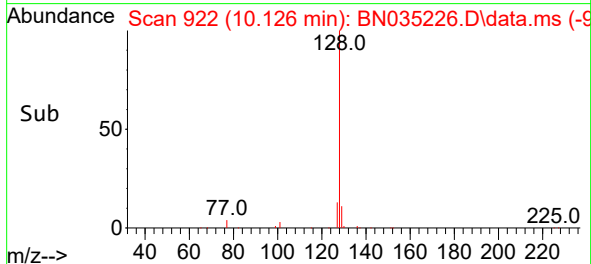
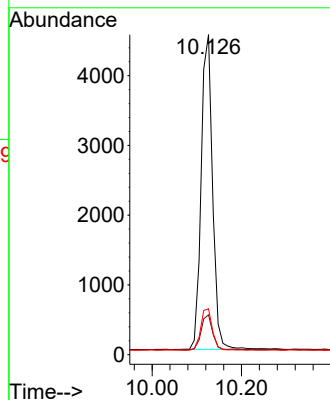
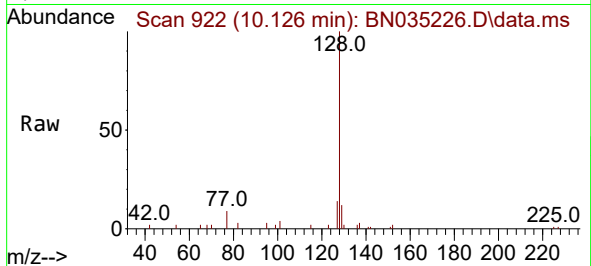




#9
Naphthalene
Concen: 0.399 ng
RT: 10.126 min Scan# 91
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

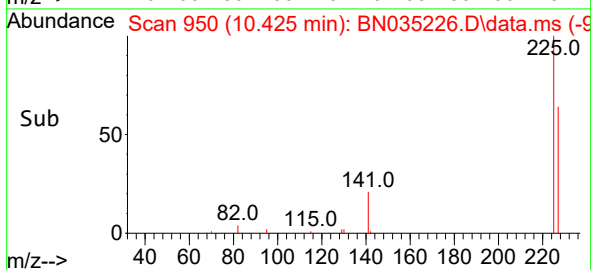
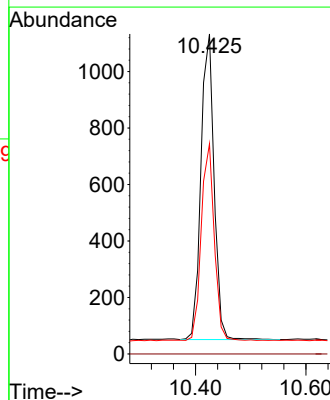
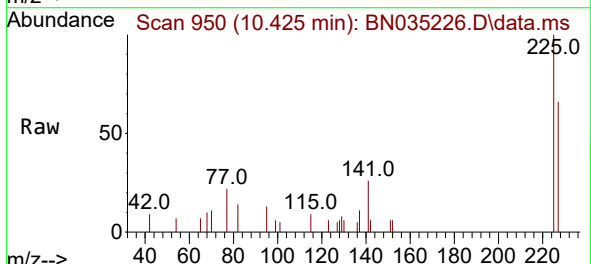
Instrument :
BNA_N
ClientSampleId :
PB165012BS

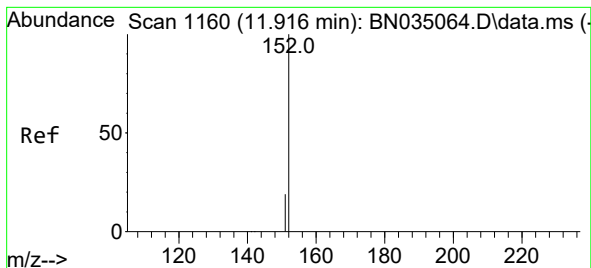
Tgt Ion:	128	Resp:	8021
Ion Ratio	Lower	Upper	
128	100		
129	12.5	9.6	14.4
127	14.3	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.305 ng
RT: 10.425 min Scan# 950
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:	225	Resp:	1793
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.6	51.5	77.3

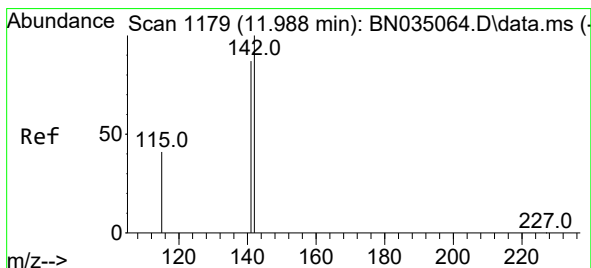
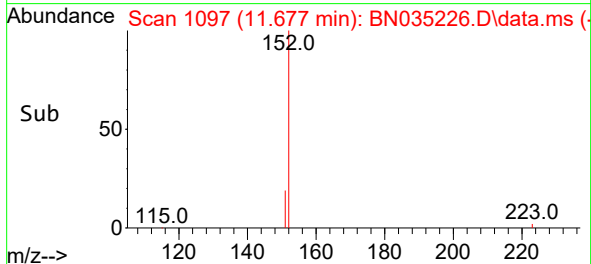
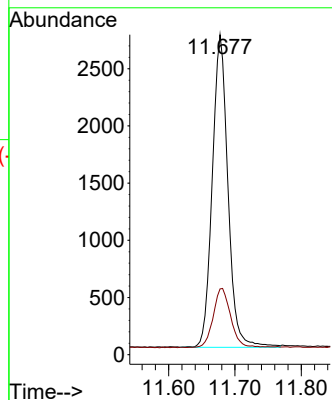
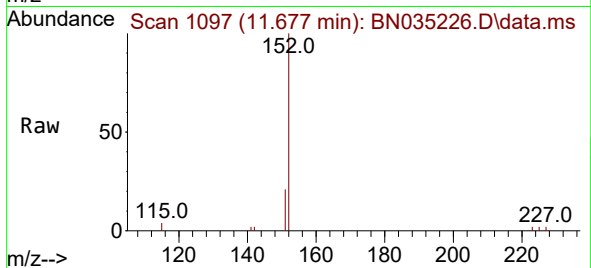




#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 11.677 min Scan# 1107
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

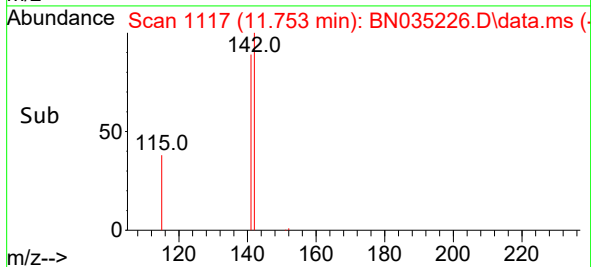
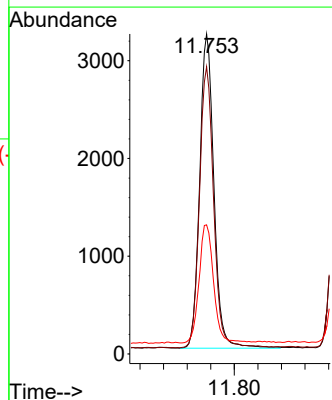
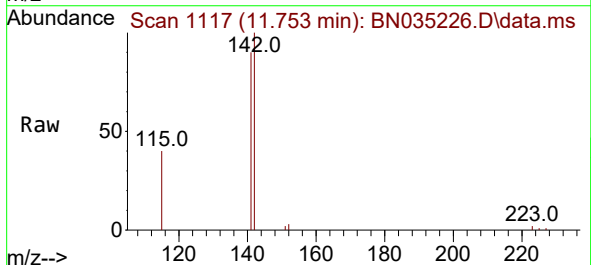
Instrument :
BNA_N
ClientSampleId :
PB165012BS

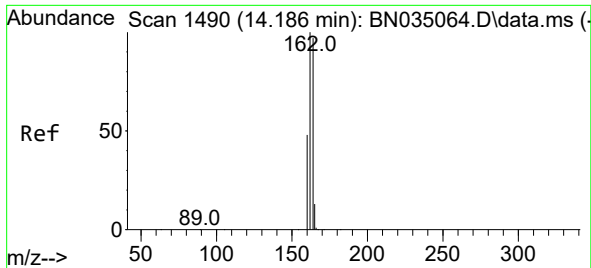
Tgt Ion:152 Resp: 4481
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.363 ng
RT: 11.753 min Scan# 1117
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:142 Resp: 5384
Ion Ratio Lower Upper
142 100
141 89.7 70.1 105.1
115 40.3 34.4 51.6

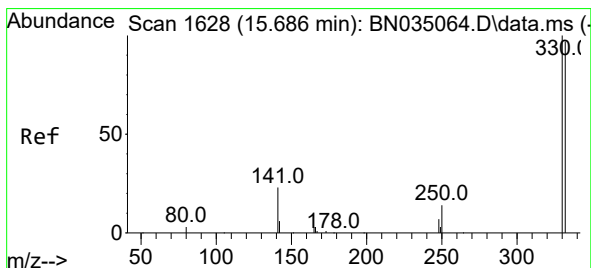
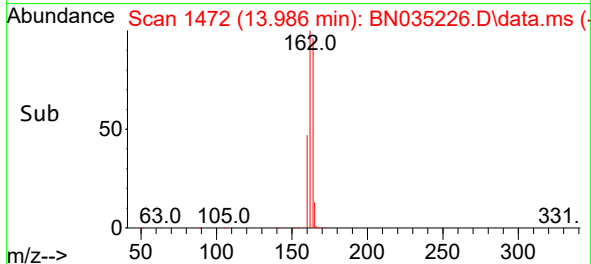
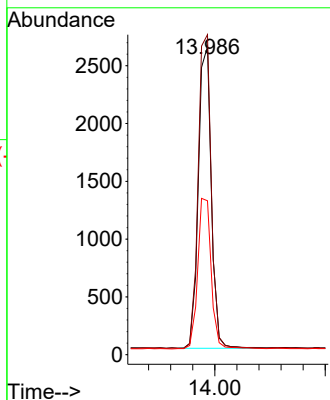
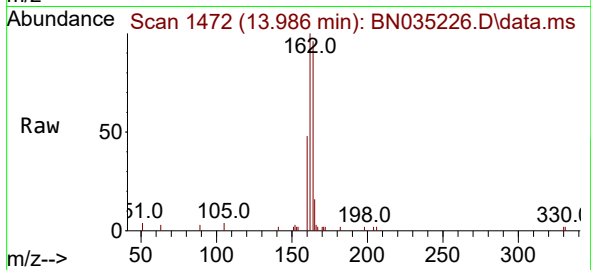




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.986 min Scan# 14
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

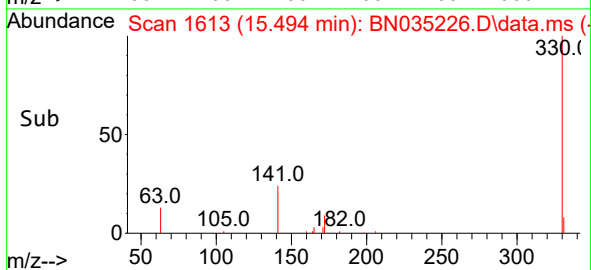
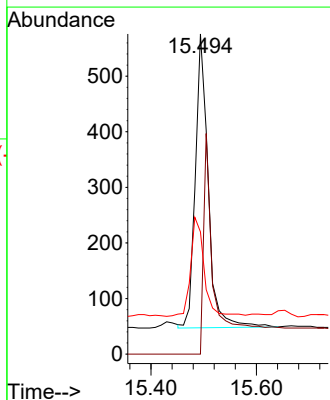
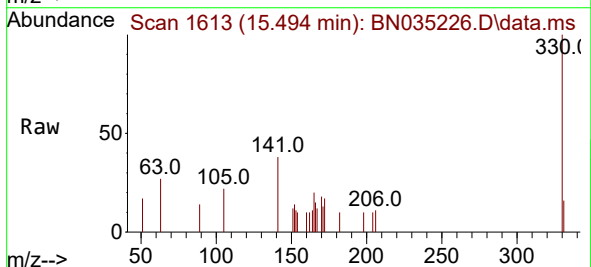
Instrument :
BNA_N
ClientSampleId :
PB165012BS

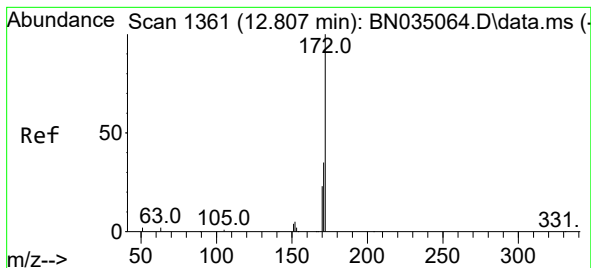
Tgt Ion:	164	Resp:	4263
Ion Ratio	Lower	Upper	
164	100		
162	103.8	82.2	123.2
160	49.9	40.2	60.4



#14
2,4,6-Tribromophenol
Concen: 0.310 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:	330	Resp:	954
Ion Ratio	Lower	Upper	
330	100		
332	80.5	76.9	115.3
141	0.0	29.6	44.4#

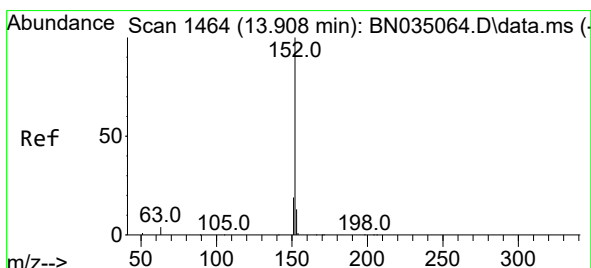
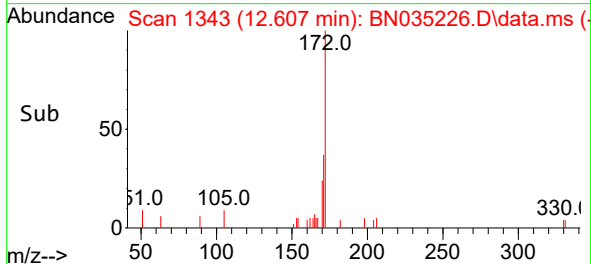
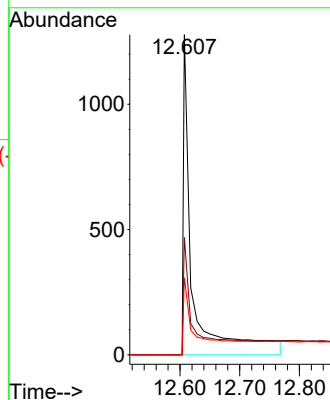
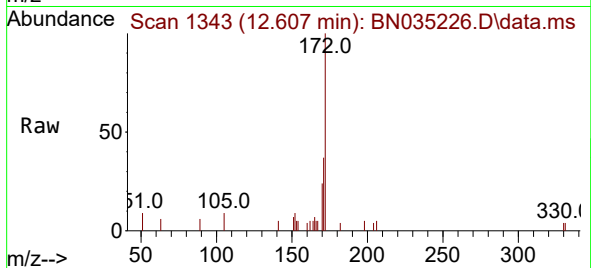




#15
2-Fluorobiphenyl
Concen: 0.086 ng
RT: 12.607 min Scan# 1445
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

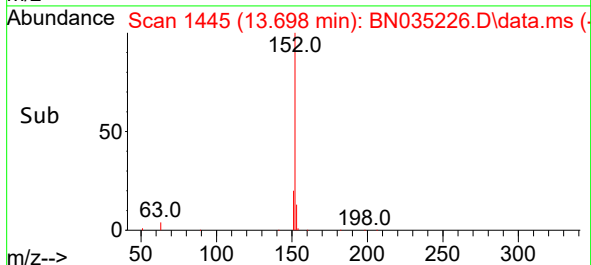
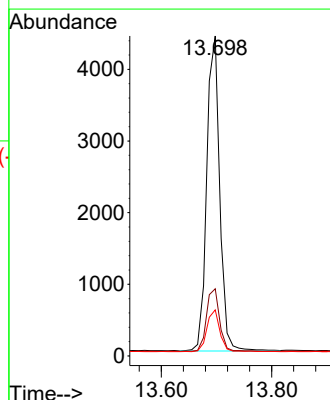
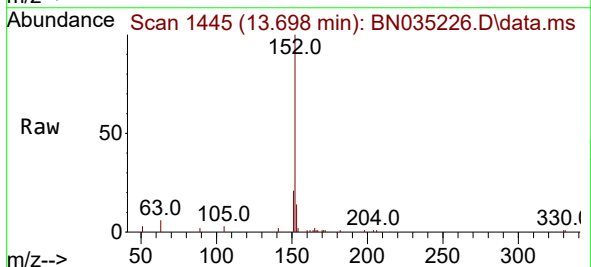
Instrument :
BNA_N
ClientSampleId :
PB165012BS

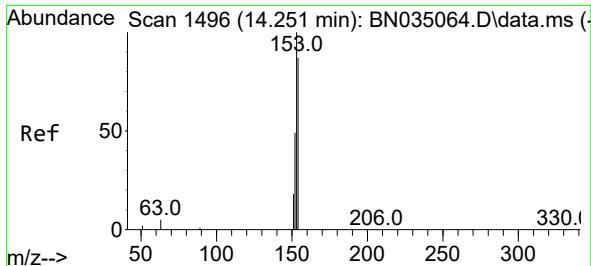
Tgt Ion:172 Resp: 1496
Ion Ratio Lower Upper
172 100
171 36.6 28.2 42.4
170 24.0 19.0 28.6



#16
Acenaphthylene
Concen: 0.395 ng
RT: 13.698 min Scan# 1445
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:152 Resp: 7197
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.8
153 13.3 10.2 15.4

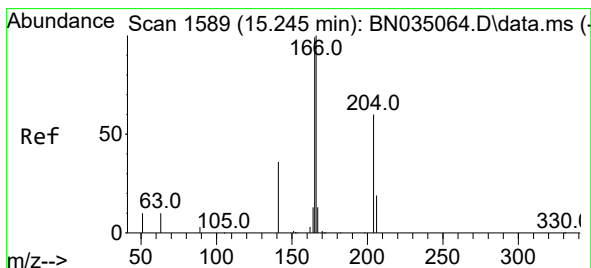
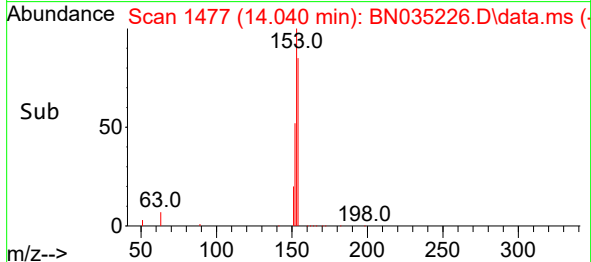
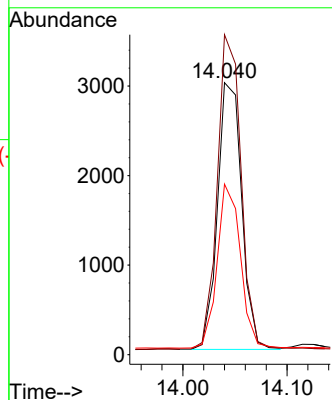
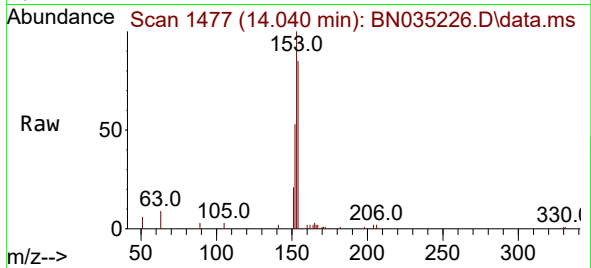




#17
Acenaphthene
Concen: 0.403 ng
RT: 14.040 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

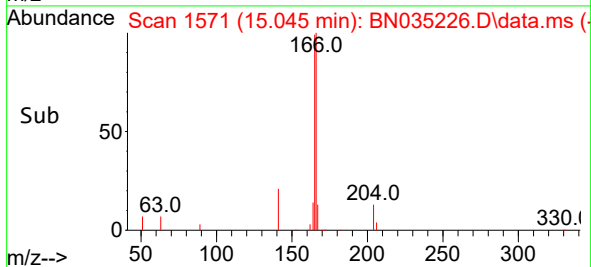
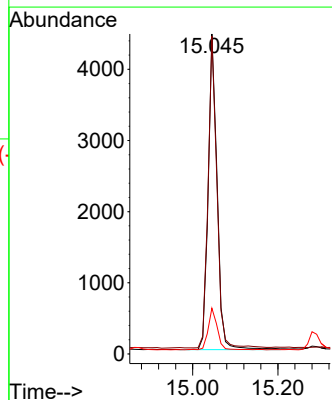
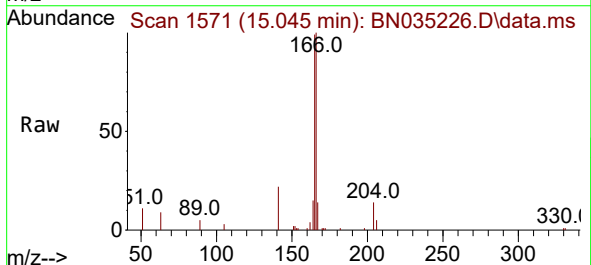
Instrument :
BNA_N
ClientSampleId :
PB165012BS

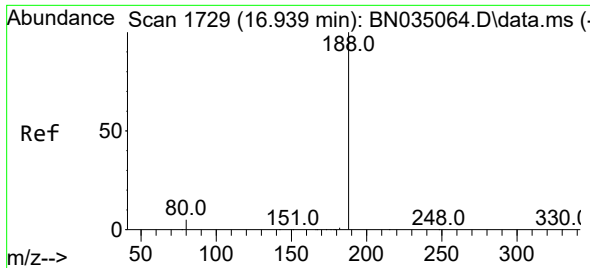
Tgt Ion:154 Resp: 4817
Ion Ratio Lower Upper
154 100
153 116.1 91.6 137.4
152 59.3 45.8 68.6



#18
Fluorene
Concen: 0.365 ng
RT: 15.045 min Scan# 1571
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:166 Resp: 6416
Ion Ratio Lower Upper
166 100
165 97.7 79.1 118.7
167 13.6 10.6 16.0

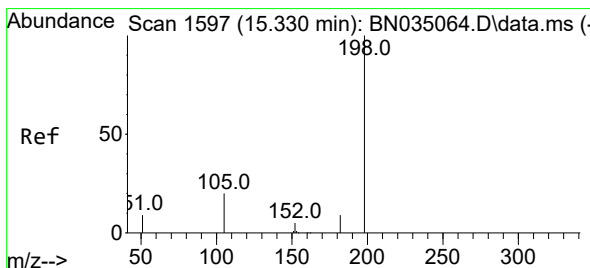
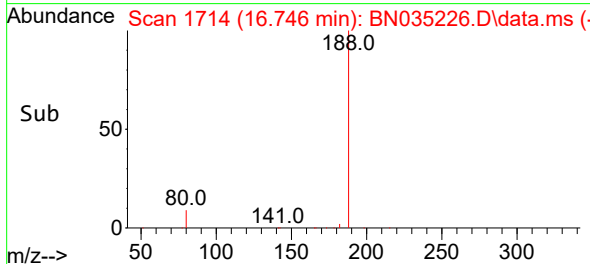
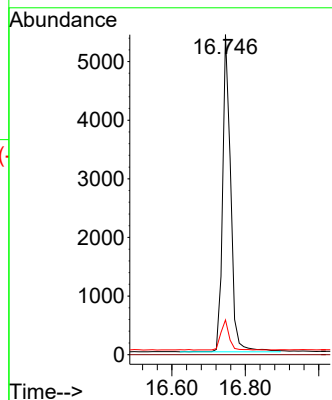
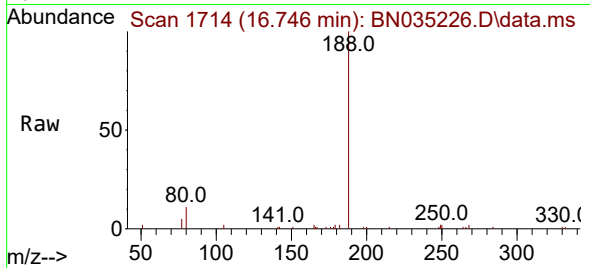




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 11
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

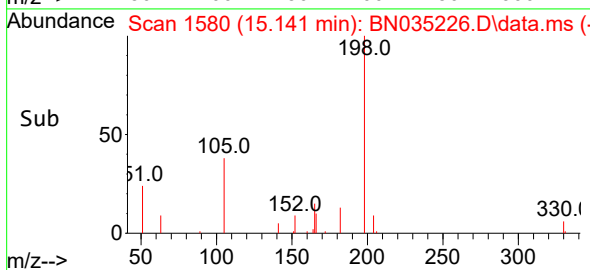
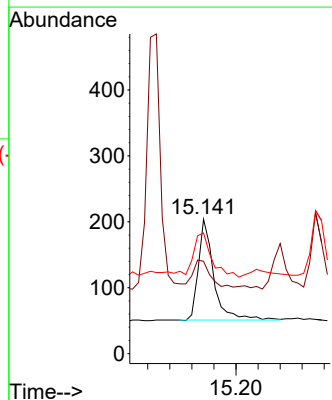
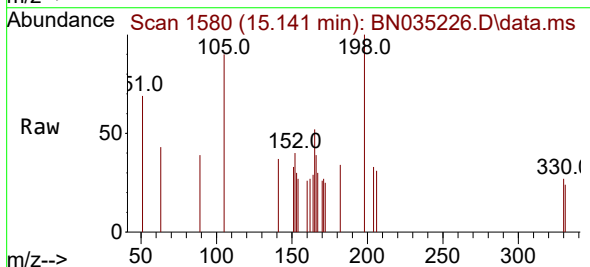
Instrument :
BNA_N
ClientSampleId :
PB165012BS

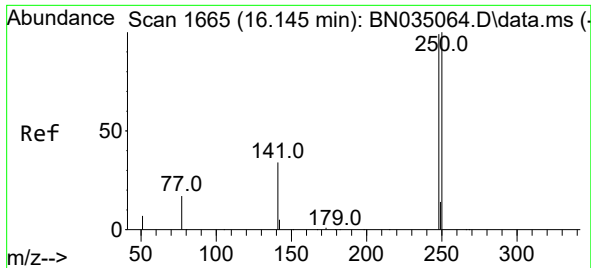
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	4.3	6.5#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.172 ng
RT: 15.141 min Scan# 1580
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

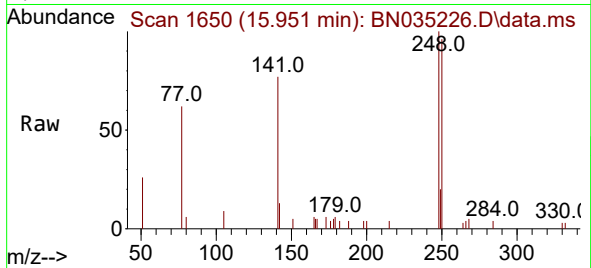
Tgt Ion	Ratio	Lower	Upper
198	100		
51	68.6	29.9	44.9#
105	89.7	23.7	35.5#



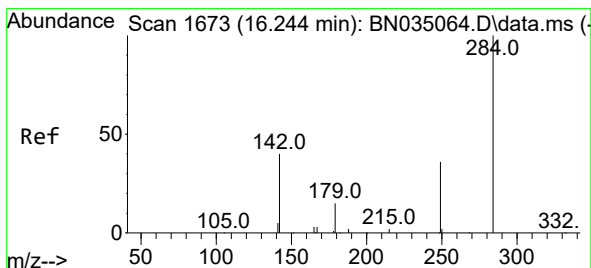
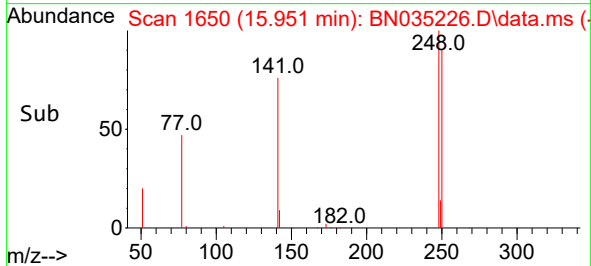
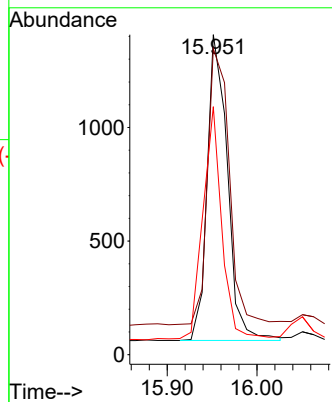


#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 15.951 min Scan# 1650
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

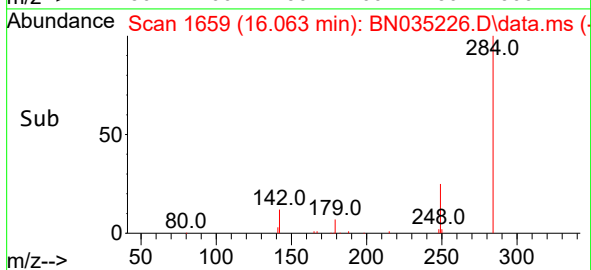
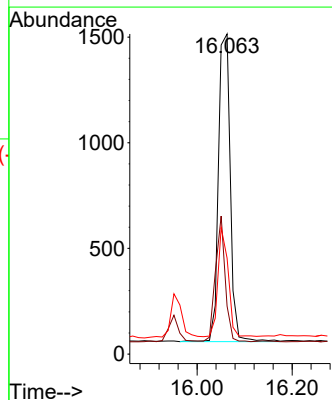
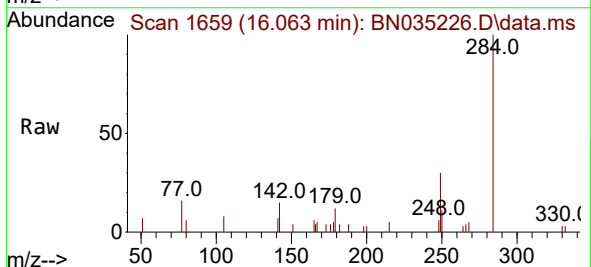


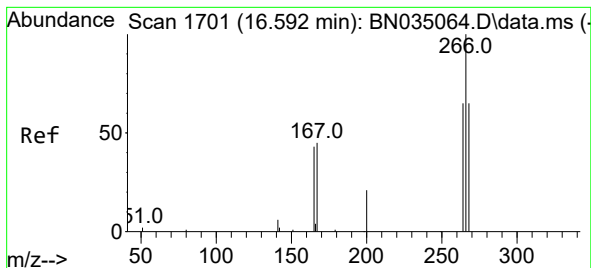
Tgt Ion:248 Resp: 2101
Ion Ratio Lower Upper
248 100
250 95.7 81.2 121.8
141 77.5 29.1 43.7#



#22
Hexachlorobenzene
Concen: 0.457 ng
RT: 16.063 min Scan# 1659
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:284 Resp: 2505
Ion Ratio Lower Upper
284 100
142 33.7 28.2 42.4
249 31.1 26.2 39.2





#24

Pentachlorophenol

Concen: 0.627 ng

RT: 16.411 min Scan# 1

Delta R.T. -0.001 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

Instrument :

BNA_N

ClientSampleId :

PB165012BS

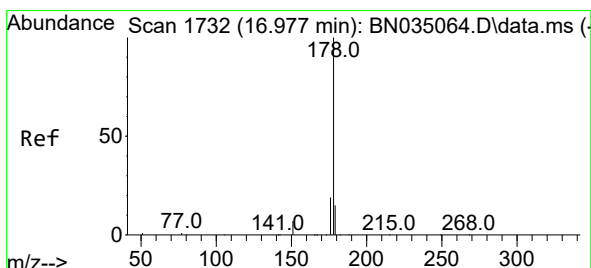
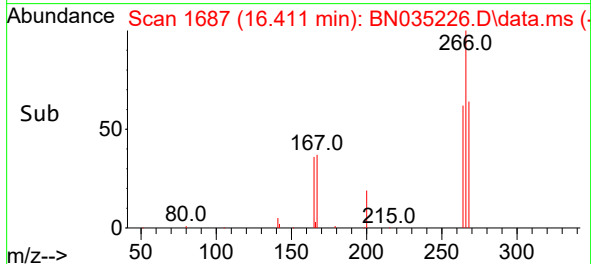
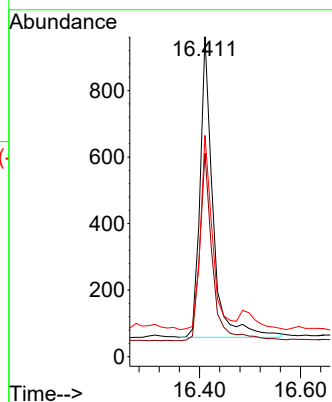
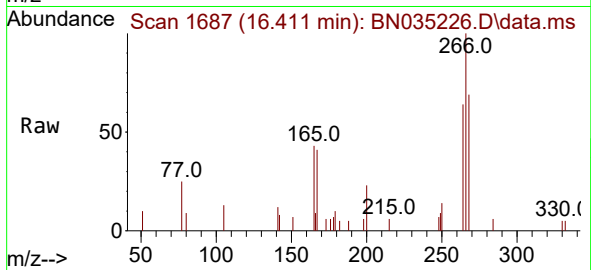
Tgt Ion:266 Resp: 1606

Ion Ratio Lower Upper

266 100

264 61.3 49.4 74.0

268 60.0 52.6 79.0



#25

Phenanthrene

Concen: 0.412 ng

RT: 16.795 min Scan# 1718

Delta R.T. -0.001 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

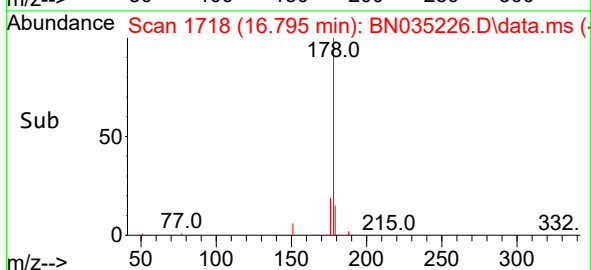
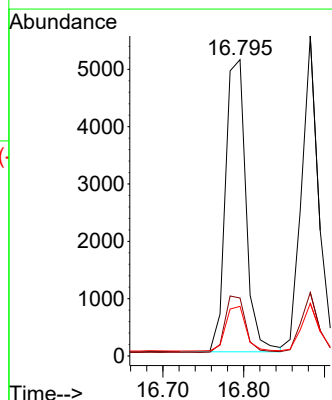
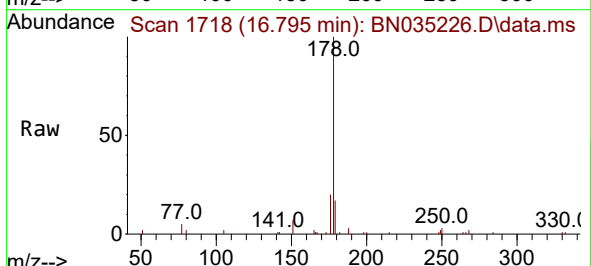
Tgt Ion:178 Resp: 8986

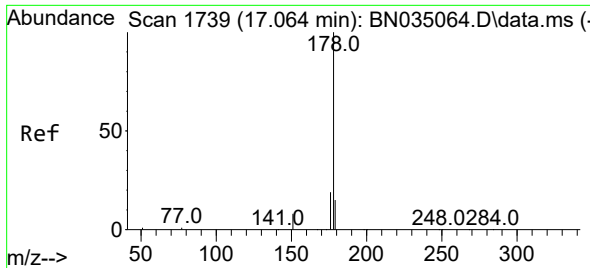
Ion Ratio Lower Upper

178 100

176 19.4 15.2 22.8

179 15.1 12.6 18.8

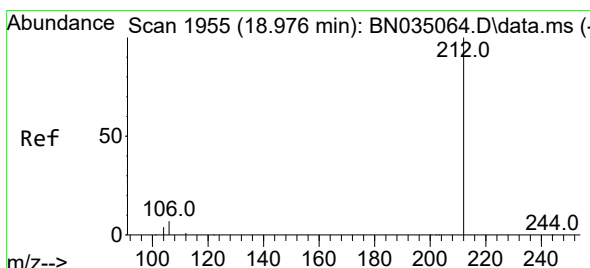
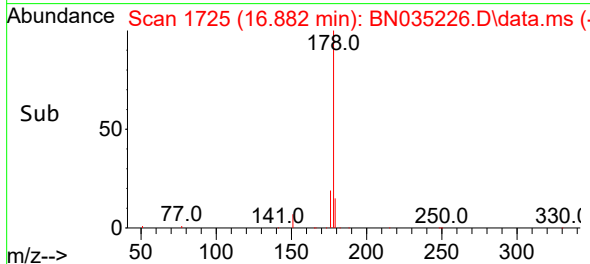
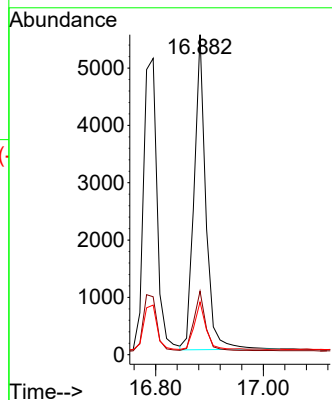
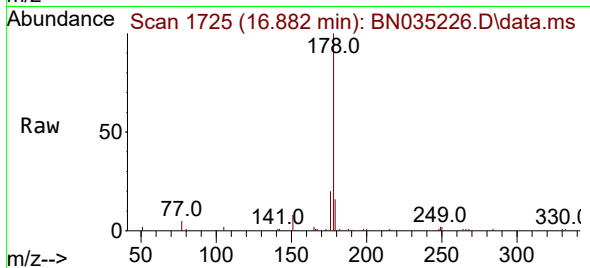




#26
 Anthracene
 Concen: 0.413 ng
 RT: 16.882 min Scan# 11
 Delta R.T. -0.001 min
 Lab File: BN035226.D
 Acq: 21 Nov 2024 17:36

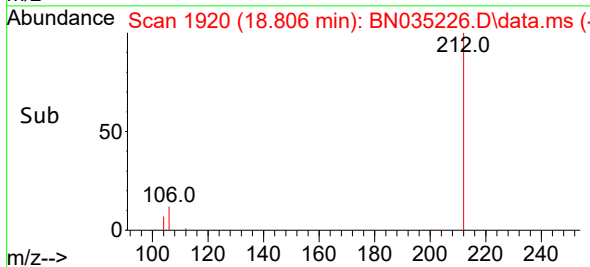
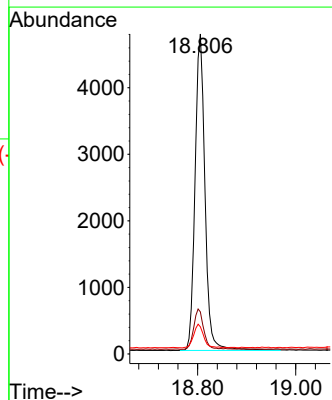
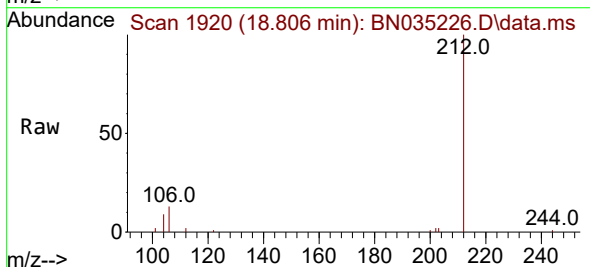
Instrument :
 BNA_N
 ClientSampleId :
 PB165012BS

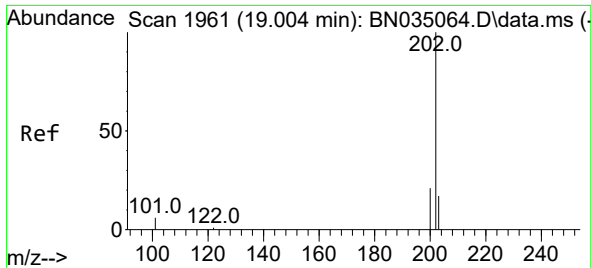
Tgt Ion:178 Resp: 8282
 Ion Ratio Lower Upper
 178 100
 176 19.1 14.6 22.0
 179 15.4 12.2 18.2



#27
 Fluoranthene-d10
 Concen: 0.263 ng
 RT: 18.806 min Scan# 1920
 Delta R.T. -0.001 min
 Lab File: BN035226.D
 Acq: 21 Nov 2024 17:36

Tgt Ion:212 Resp: 6678
 Ion Ratio Lower Upper
 212 100
 106 12.8 6.0 9.0#
 104 7.5 3.5 5.3#

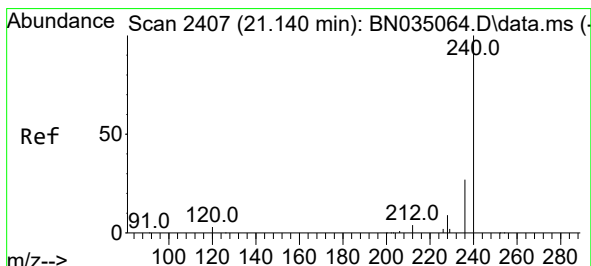
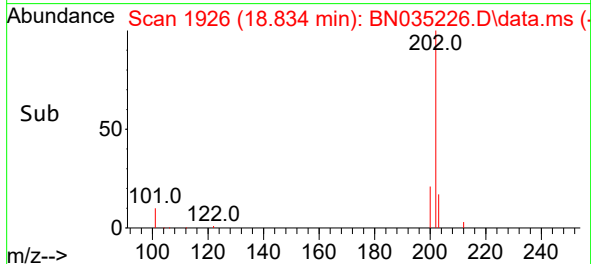
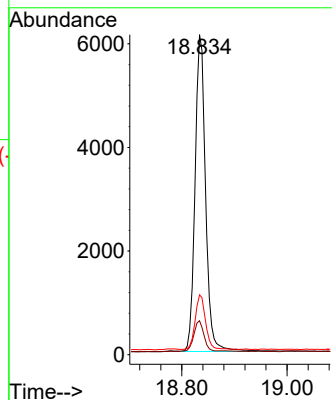
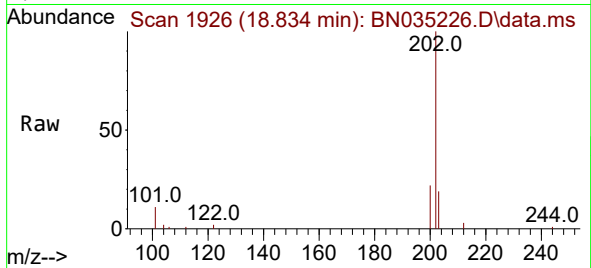




#28
Fluoranthene
Concen: 0.283 ng
RT: 18.834 min Scan# 1961
Delta R.T. -0.005 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

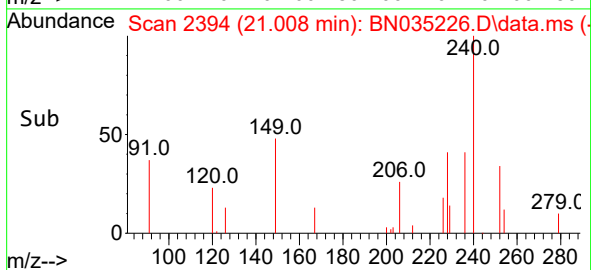
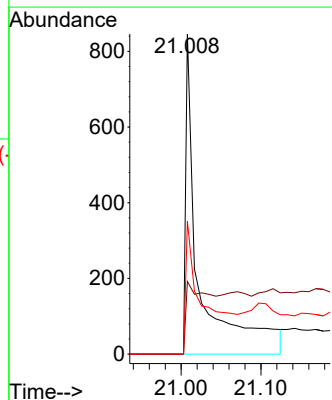
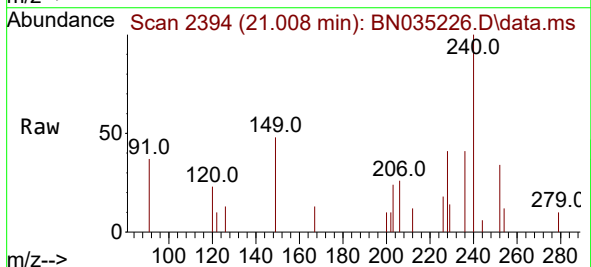
Instrument :
BNA_N
ClientSampleId :
PB165012BS

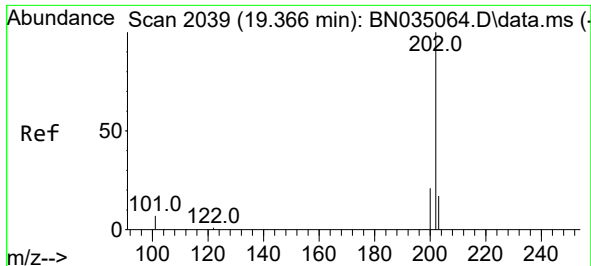
Tgt Ion:202 Resp: 8504
Ion Ratio Lower Upper
202 100
101 9.3 5.2 7.8#
203 17.2 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.001 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:240 Resp: 1030
Ion Ratio Lower Upper
240 100
120 22.7 3.8 5.6#
236 41.5 22.2 33.2#

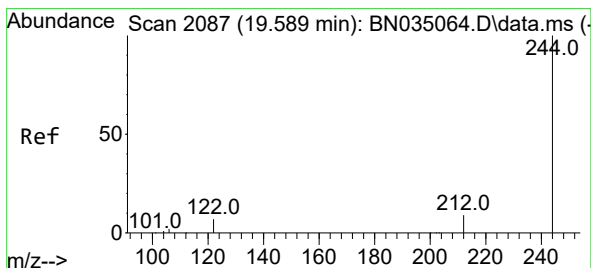
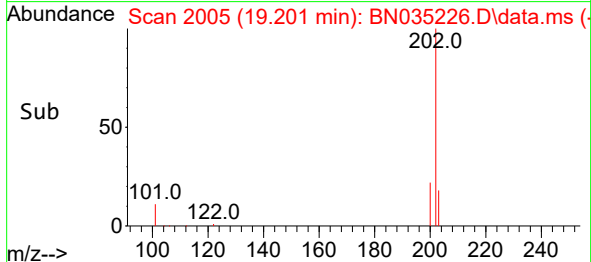
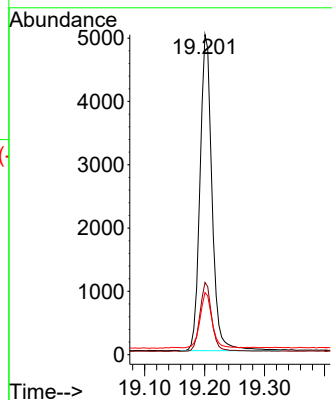
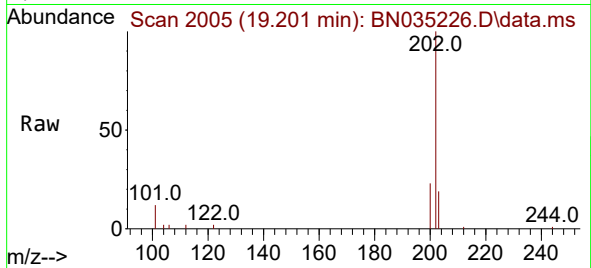




#30
Pyrene
Concen: 2.023 ng
RT: 19.201 min Scan# 2005
Delta R.T. -0.005 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

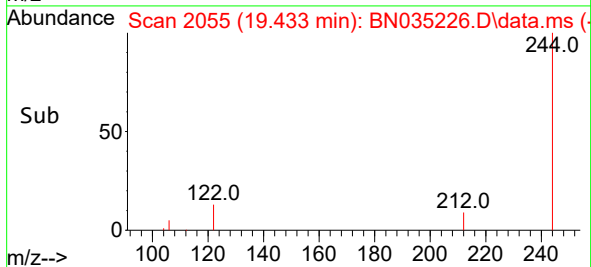
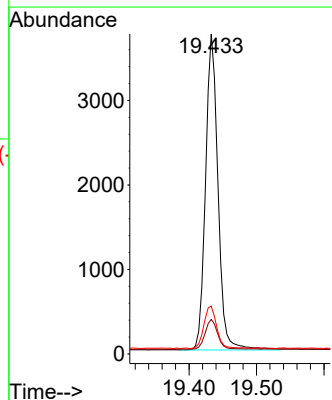
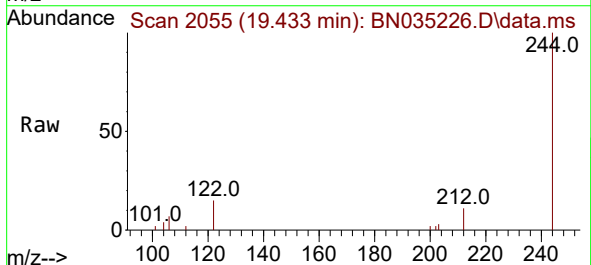
Instrument :
BNA_N
ClientSampleId :
PB165012BS

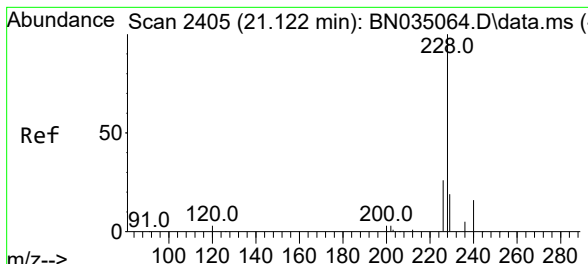
Tgt Ion:202 Resp: 6940
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 17.3 14.2 21.4



#31
Terphenyl-d14
Concen: 2.223 ng
RT: 19.433 min Scan# 2055
Delta R.T. -0.005 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:244 Resp: 4805
Ion Ratio Lower Upper
244 100
212 10.8 7.6 11.4
122 14.9 6.1 9.1#



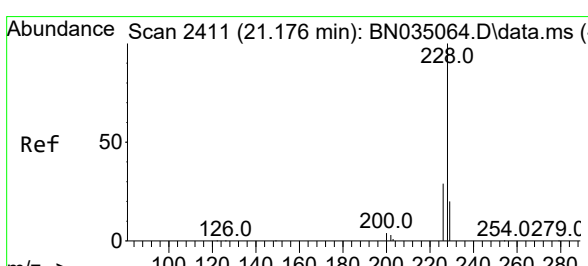
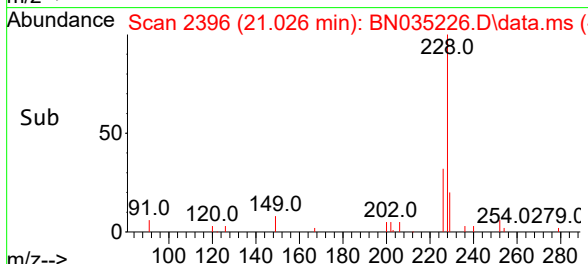
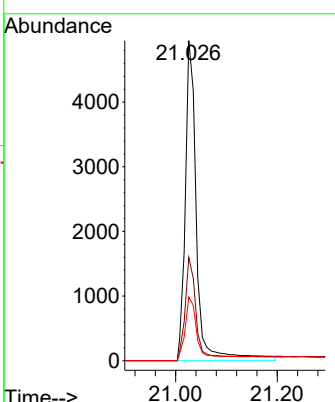
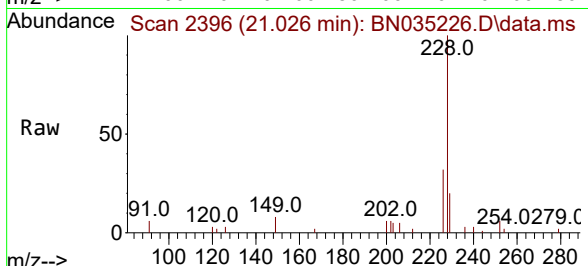


#32
Benzo(a)anthracene
Concen: 2.061 ng
RT: 21.026 min Scan# 21
Delta R.T. -0.010 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion:228 Resp: 7390

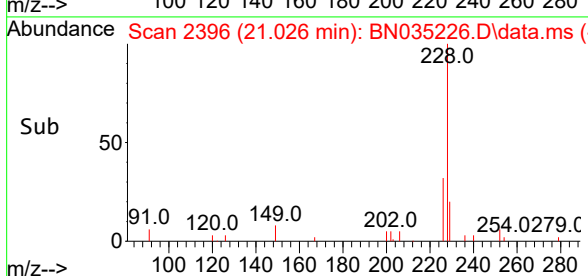
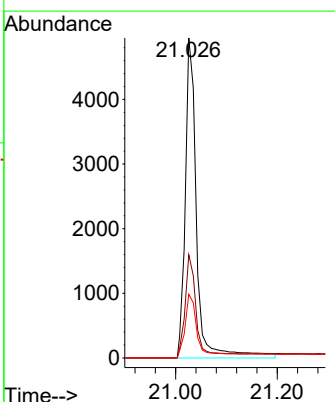
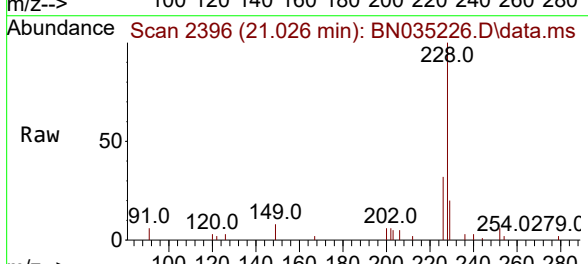
Ion	Ratio	Lower	Upper
228	100		
226	32.2	21.4	32.0#
229	19.9	15.7	23.5

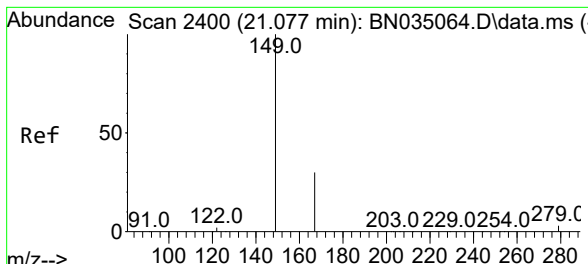


#33
Chrysene
Concen: 2.080 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.010 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:228 Resp: 7390

Ion	Ratio	Lower	Upper
228	100		
226	32.2	23.7	35.5
229	19.9	16.2	24.4



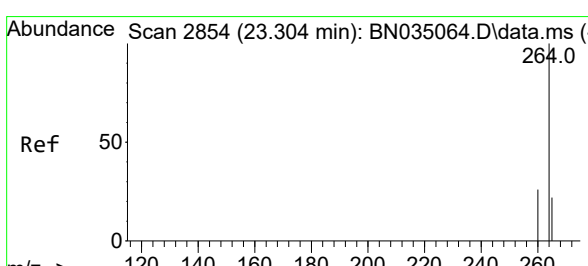
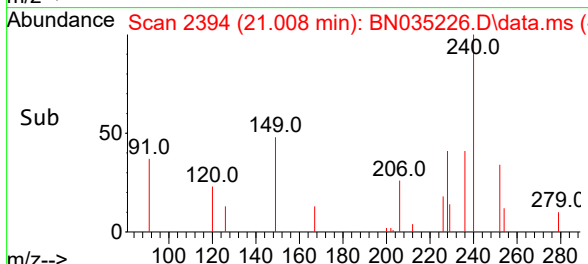
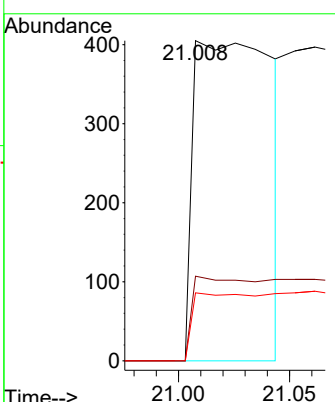
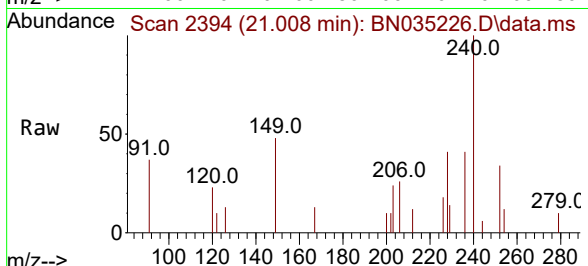


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.473 ng
RT: 21.008 min Scan# 2100
Delta R.T. -0.018 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion:149 Resp: 891

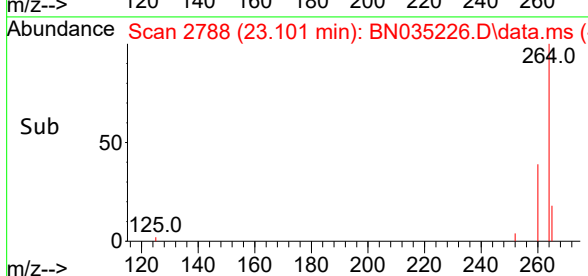
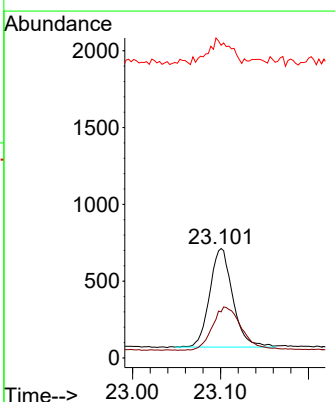
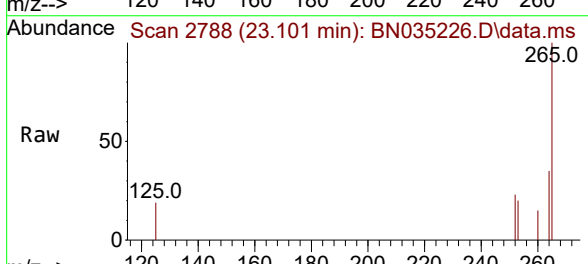
Ion	Ratio	Lower	Upper
149	100		
167	20.0	23.2	34.8#
279	16.3	3.2	4.8#

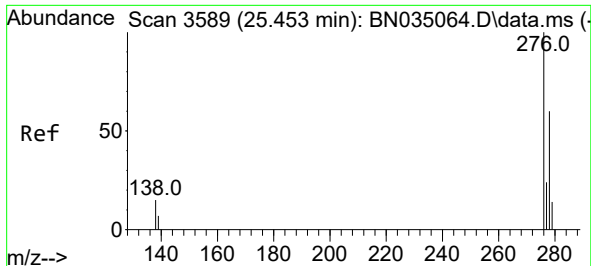


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.101 min Scan# 2788
Delta R.T. -0.003 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:264 Resp: 1173

Ion	Ratio	Lower	Upper
264	100		
260	42.1	20.9	31.3#
265	285.4	35.4	53.2#

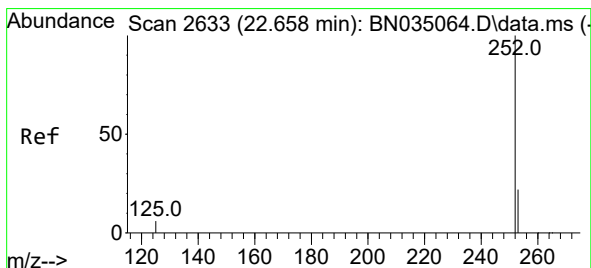
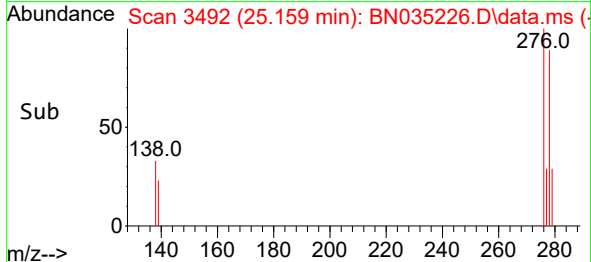
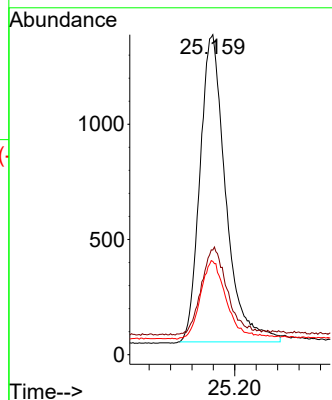
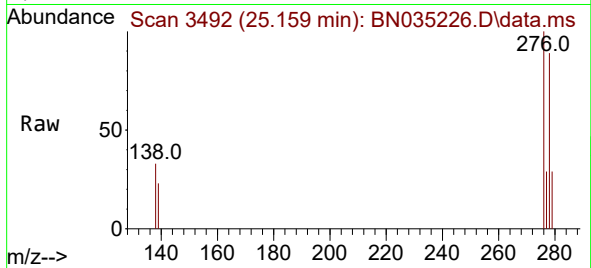




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.951 ng
RT: 25.159 min Scan# 34
Delta R.T. 0.002 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

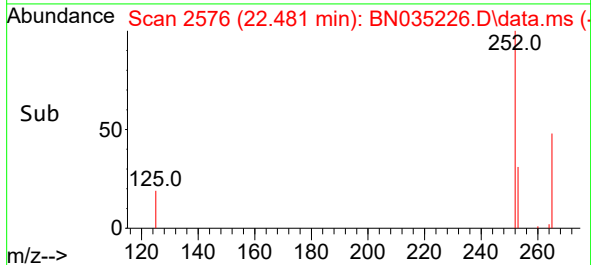
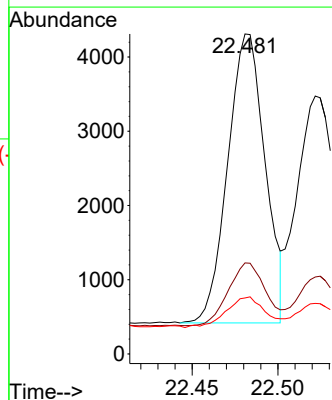
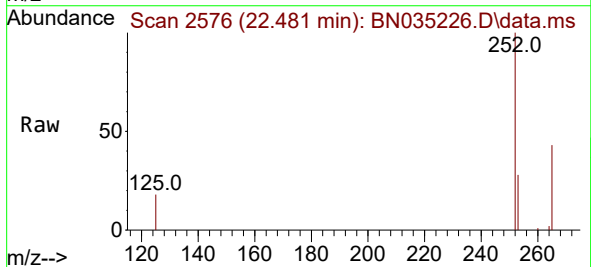
Instrument :
BNA_N
ClientSampleId :
PB165012BS

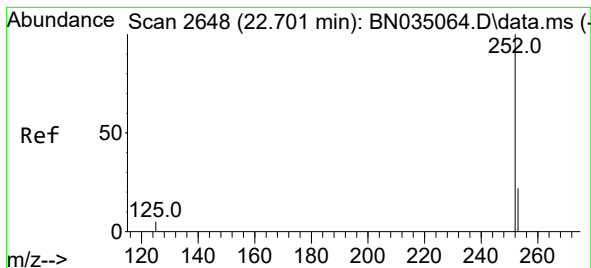
Tgt Ion:276 Resp: 4451
Ion Ratio Lower Upper
276 100
138 26.3 13.0 19.4#
277 22.9 19.8 29.6



#37
Benzo(b)fluoranthene
Concen: 1.494 ng
RT: 22.481 min Scan# 2576
Delta R.T. -0.006 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:252 Resp: 5897
Ion Ratio Lower Upper
252 100
253 28.5 19.3 28.9
125 17.5 6.2 9.2#





#38

Benzo(k)fluoranthene

Concen: 1.260 ng

RT: 22.522 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

Instrument :

BNA_N

ClientSampleId :

PB165012BS

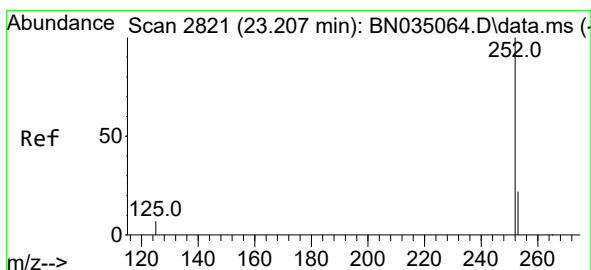
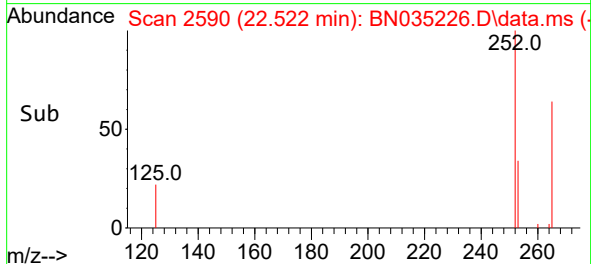
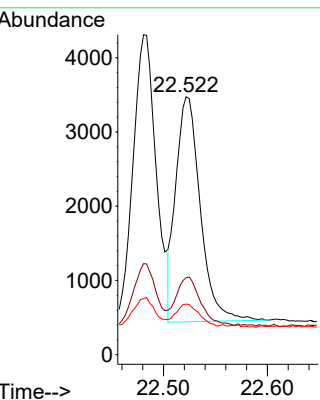
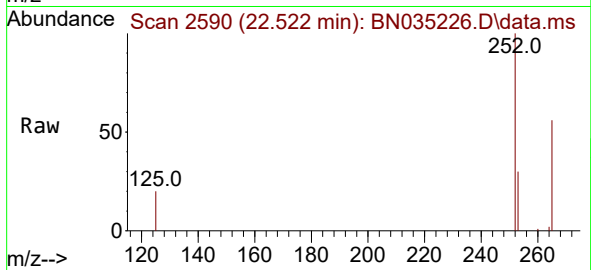
Tgt Ion:252 Resp: 4976

Ion Ratio Lower Upper

252 100

253 29.9 19.5 29.3#

125 19.6 6.5 9.7#



#39

Benzo(a)pyrene

Concen: 0.991 ng

RT: 23.007 min Scan# 2756

Delta R.T. -0.006 min

Lab File: BN035226.D

Acq: 21 Nov 2024 17:36

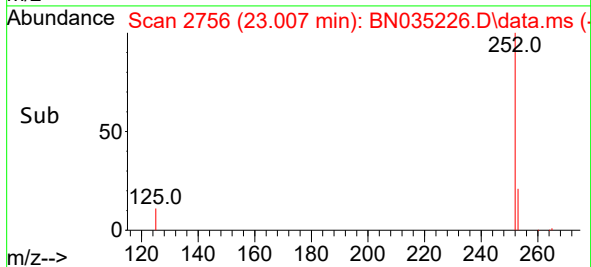
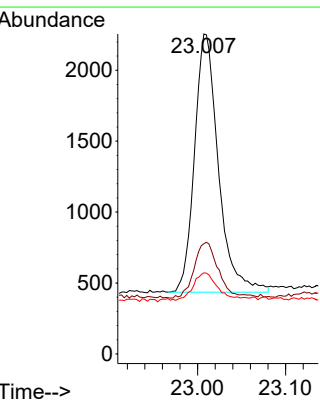
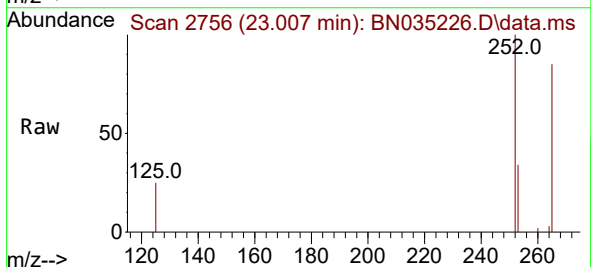
Tgt Ion:252 Resp: 3441

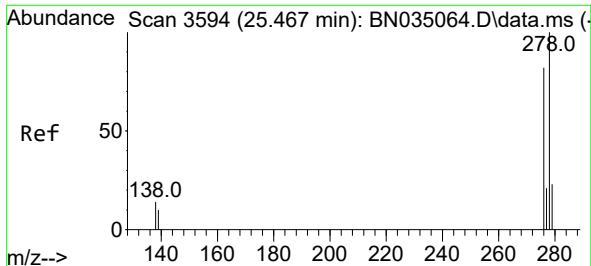
Ion Ratio Lower Upper

252 100

253 34.4 20.1 30.1#

125 25.4 7.5 11.3#

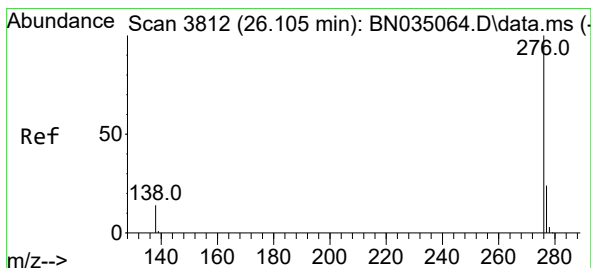
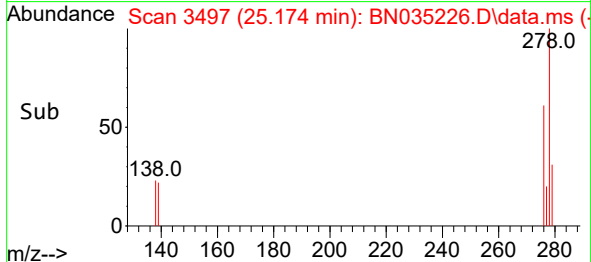
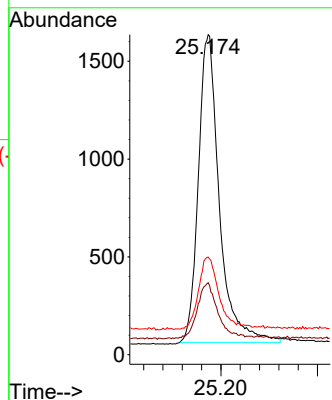
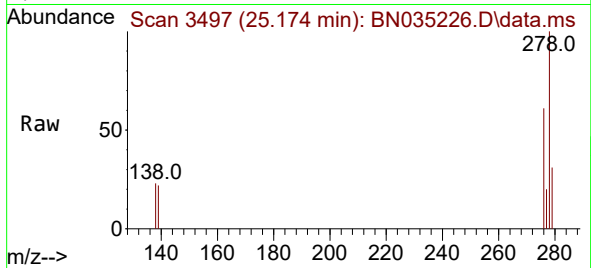




#40
Dibenzo(a,h)anthracene
Concen: 1.276 ng
RT: 25.174 min Scan# 34
Delta R.T. -0.003 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

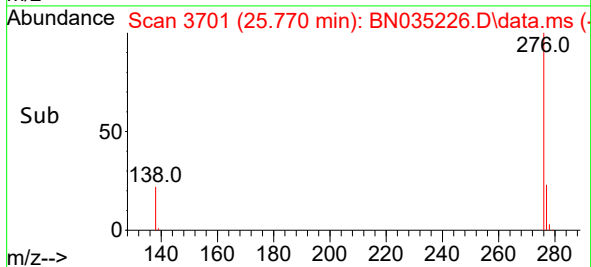
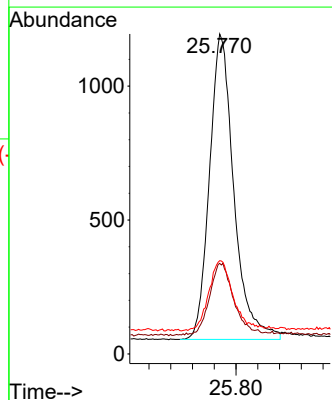
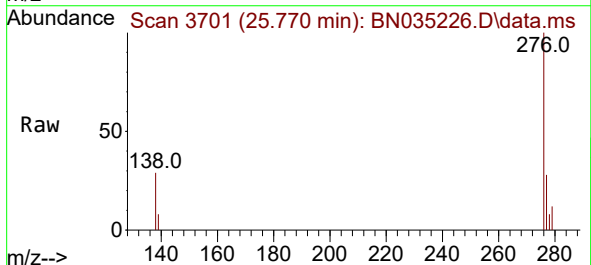
Instrument :
BNA_N
ClientSampleId :
PB165012BS

Tgt Ion:278 Resp: 4731
Ion Ratio Lower Upper
278 100
139 22.5 9.3 13.9#
279 30.5 19.7 29.5#



#41
Benzo(g,h,i)perylene
Concen: 0.899 ng
RT: 25.770 min Scan# 3701
Delta R.T. -0.006 min
Lab File: BN035226.D
Acq: 21 Nov 2024 17:36

Tgt Ion:276 Resp: 3544
Ion Ratio Lower Upper
276 100
277 28.3 19.9 29.9
138 29.1 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035227.D
 Acq On : 21 Nov 2024 18:12
 Operator : RC/JU
 Sample : PB165012BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165012BSD

Quant Time: Nov 21 23:04:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

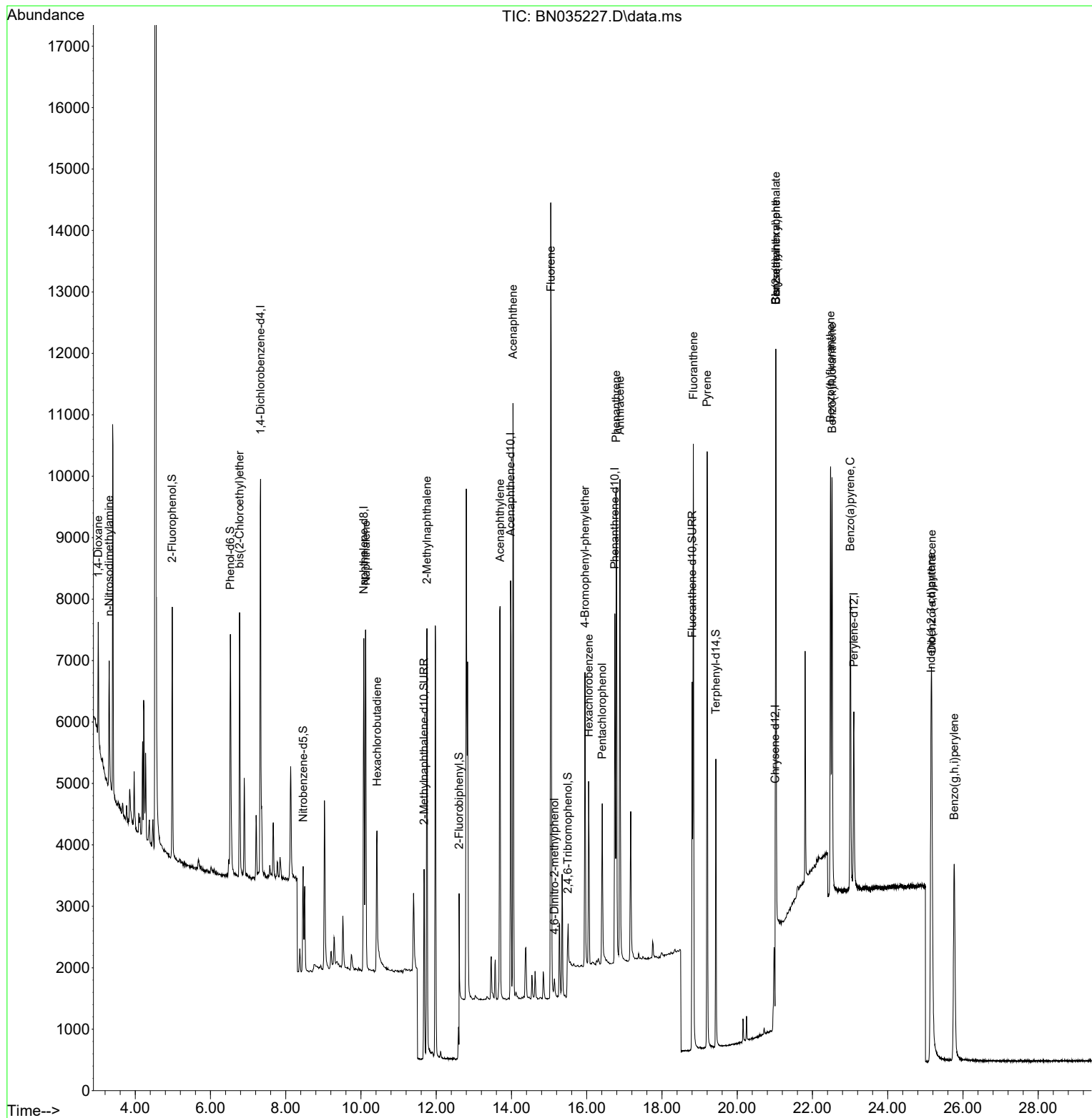
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.329	152	3072	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	6967	0.400	ng	# 0.00
13) Acenaphthene-d10	13.976	164	4025	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	7680	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	1000	0.400	ng	# 0.00
35) Perylene-d12	23.098	264	3421	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.982	112	3209	0.411	ng	0.00
5) Phenol-d6	6.528	99	3894	0.398	ng	0.00
8) Nitrobenzene-d5	8.461	82	1697	0.280	ng	0.00
11) 2-Methylnaphthalene-d10	11.678	152	4335	0.349	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	895	0.308	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1227	0.075	ng	0.00
27) Fluoranthene-d10	18.802	212	7158	0.304	ng	0.00
31) Terphenyl-d14	19.433	244	4758	2.267	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.018	88	1081	0.387	ng	# 53
3) n-Nitrosodimethylamine	3.307	42	1020	0.392	ng	# 88
6) bis(2-Chloroethyl)ether	6.773	93	3240	0.441	ng	95
9) Naphthalene	10.127	128	7731	0.425	ng	99
10) Hexachlorobutadiene	10.426	225	1723	0.323	ng	# 99
12) 2-Methylnaphthalene	11.754	142	5176	0.386	ng	96
16) Acenaphthylene	13.698	152	7981	0.464	ng	98
17) Acenaphthene	14.040	154	4831	0.429	ng	99
18) Fluorene	15.045	166	6268	0.378	ng	100
20) 4,6-Dinitro-2-methylph...	15.142	198	275	0.172	ng	# 14
21) 4-Bromophenyl-phenylether	15.952	248	2039	0.417	ng	# 80
22) Hexachlorobenzene	16.051	284	2404	0.473	ng	97
24) Pentachlorophenol	16.411	266	1422	0.599	ng	99
25) Phenanthrene	16.784	178	8786	0.435	ng	99
26) Anthracene	16.883	178	8563	0.461	ng	99
28) Fluoranthene	18.834	202	8986	0.323	ng	# 97
30) Pyrene	19.201	202	9061	2.721	ng	99
32) Benzo(a)anthracene	21.026	228	8491	2.439	ng	94
33) Chrysene	21.026	228	8491	2.462	ng	97
34) Bis(2-ethylhexyl)phtha...	21.026	149	1089	0.596	ng	# 73
36) Indeno(1,2,3-cd)pyrene	25.151	276	8532	0.625	ng	# 90
37) Benzo(b)fluoranthene	22.481	252	8039	0.698	ng	# 90
38) Benzo(k)fluoranthene	22.519	252	8091	0.703	ng	# 91
39) Benzo(a)pyrene	23.008	252	6718	0.663	ng	# 87
40) Dibenzo(a,h)anthracene	25.171	278	7121	0.659	ng	# 89
41) Benzo(g,h,i)perylene	25.768	276	6570	0.571	ng	# 88

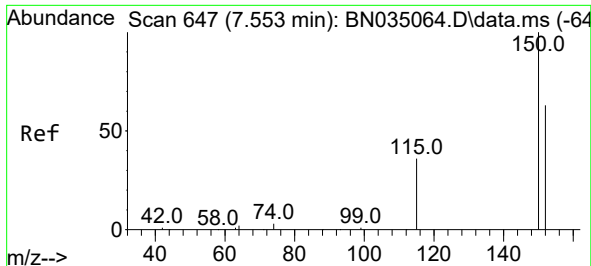
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035227.D
 Acq On : 21 Nov 2024 18:12
 Operator : RC/JU
 Sample : PB165012BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165012BSD

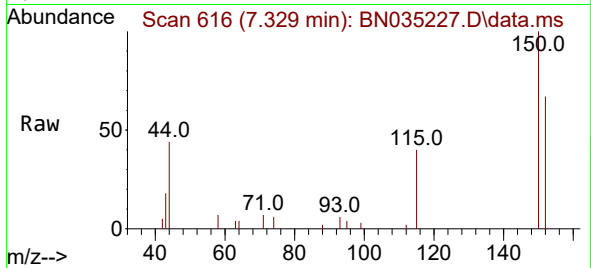
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration



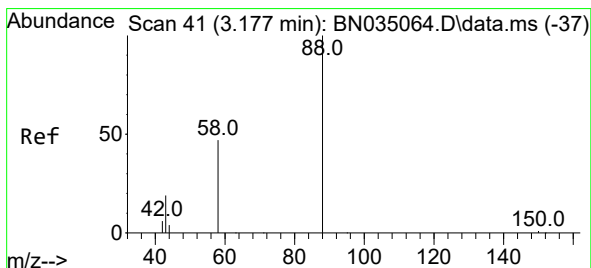
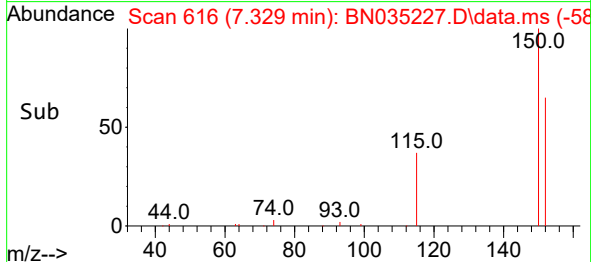
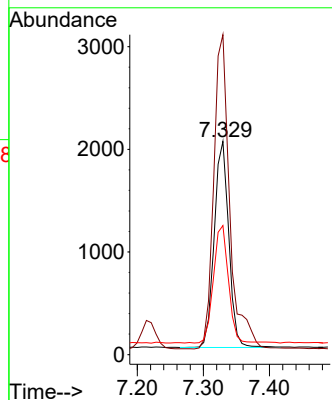


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

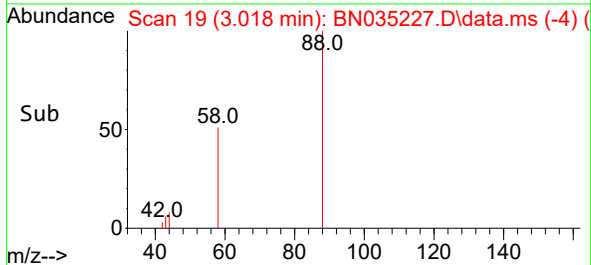
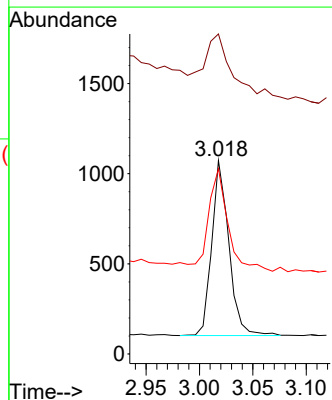
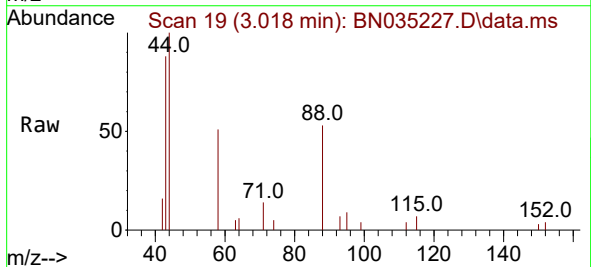


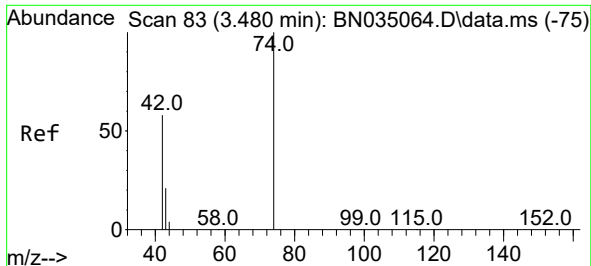
Tgt Ion:152 Resp: 3072
Ion Ratio Lower Upper
152 100
150 150.1 124.5 186.7
115 60.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.387 ng
RT: 3.018 min Scan# 19
Delta R.T. 0.007 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion: 88 Resp: 1081
Ion Ratio Lower Upper
88 100
43 65.0 16.9 25.3#
58 66.7 39.0 58.4#

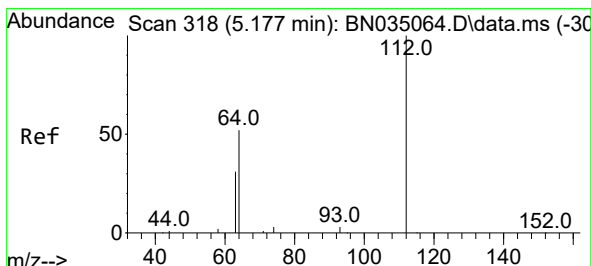
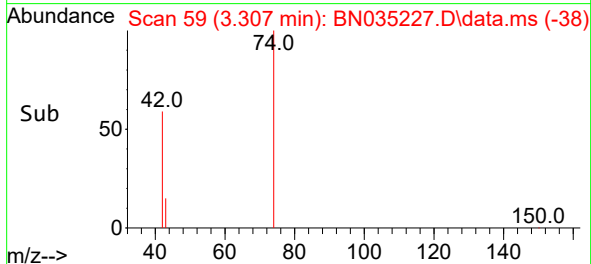
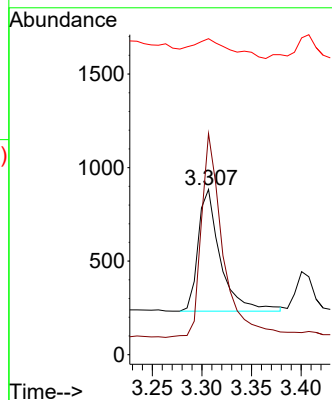
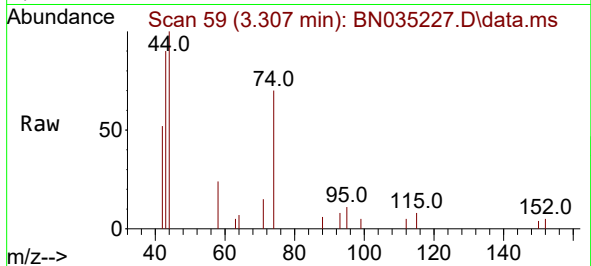




#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.307 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

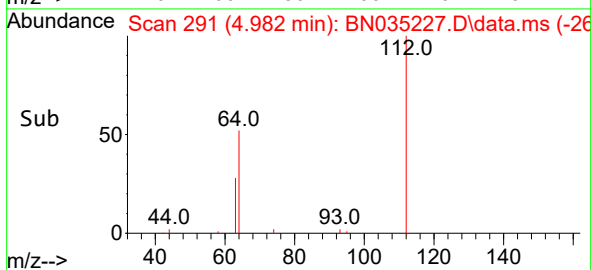
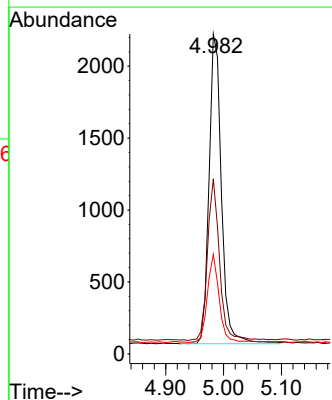
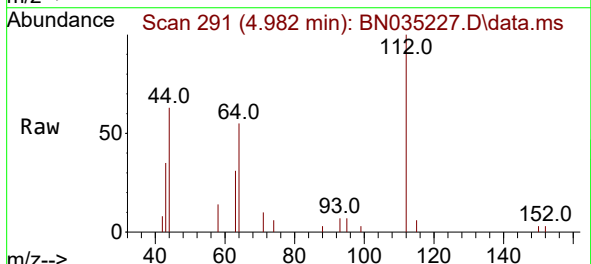
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

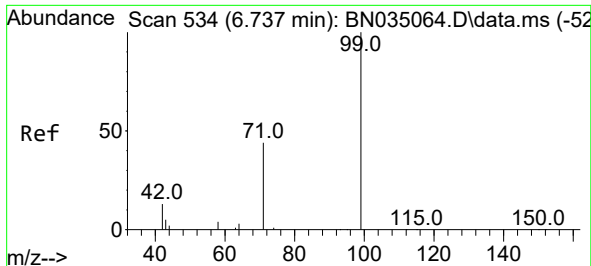
Tgt Ion: 42 Resp: 1020
Ion Ratio Lower Upper
42 100
74 165.1 120.8 181.2
44 27.1 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.411 ng
RT: 4.982 min Scan# 291
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion: 112 Resp: 3209
Ion Ratio Lower Upper
112 100
64 50.9 39.7 59.5
63 27.3 23.0 34.4

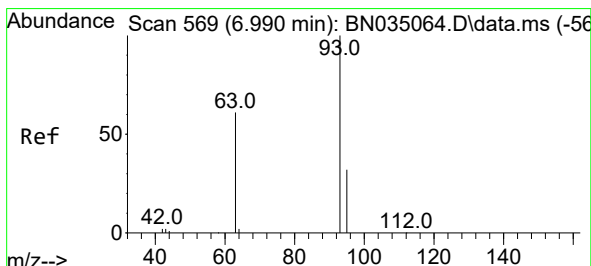
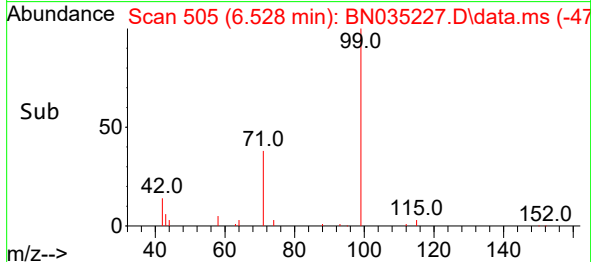
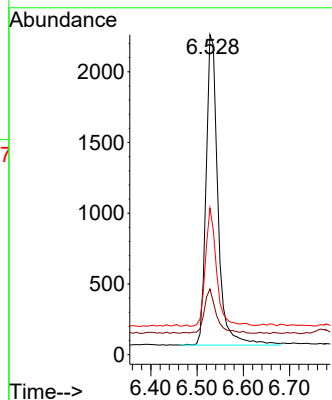
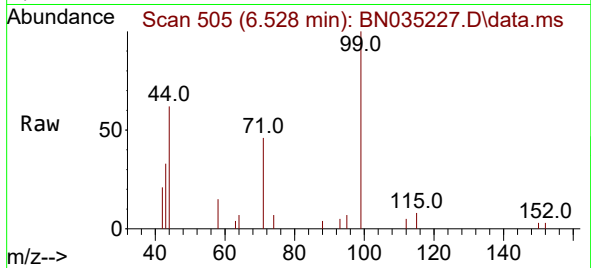




#5
Phenol-d6
Concen: 0.398 ng
RT: 6.528 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

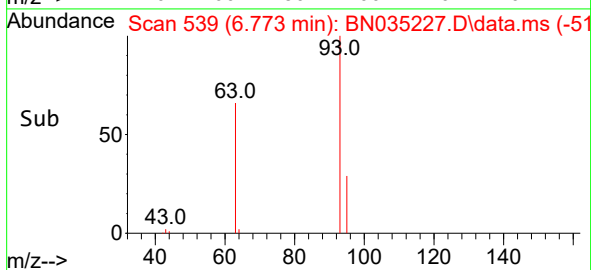
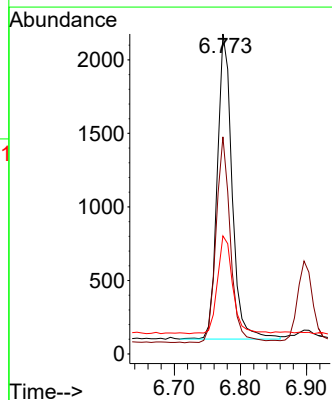
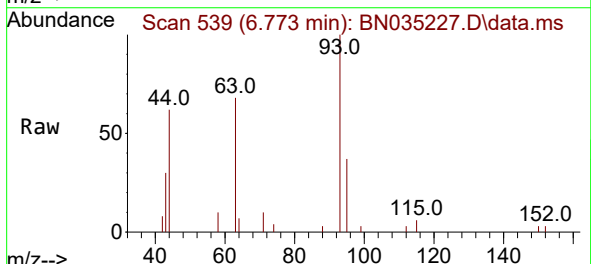
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

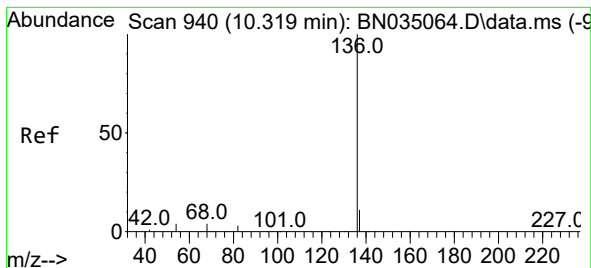
Tgt Ion: 99 Resp: 3894
Ion Ratio Lower Upper
99 100
42 14.8 11.4 17.0
71 35.4 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.441 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion: 93 Resp: 3240
Ion Ratio Lower Upper
93 100
63 65.1 47.4 71.2
95 32.7 26.2 39.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.073 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

Instrument :

BNA_N

ClientSampleId :

PB165012BSD

Tgt Ion:136 Resp: 6967

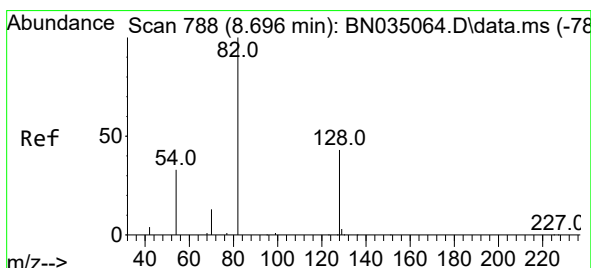
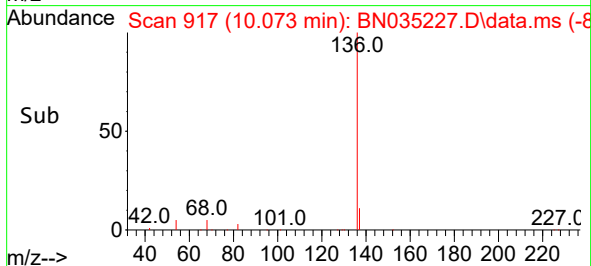
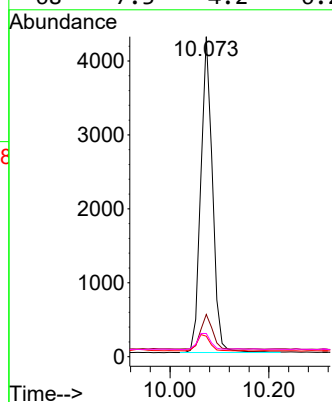
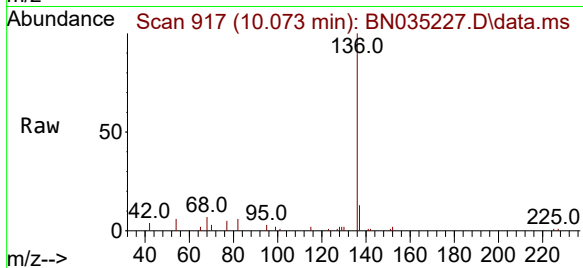
Ion Ratio Lower Upper

136 100

137 13.2 9.8 14.8

54 6.4 4.0 6.0#

68 7.3 4.2 6.2#



#8

Nitrobenzene-d5

Concen: 0.280 ng

RT: 8.461 min Scan# 766

Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

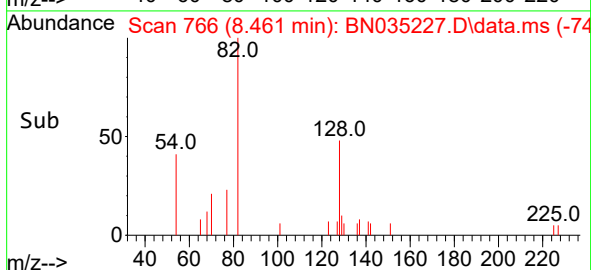
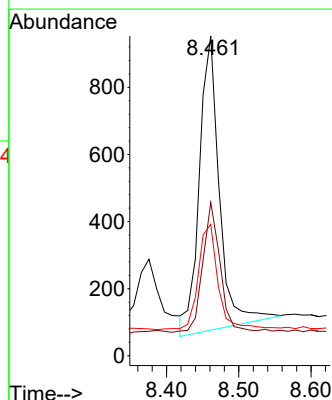
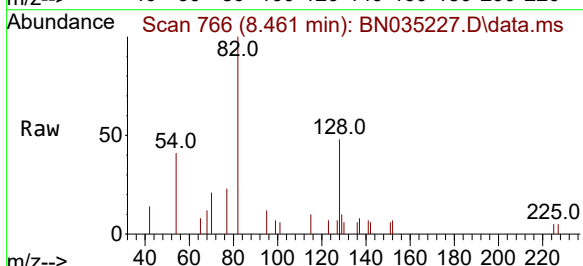
Tgt Ion: 82 Resp: 1697

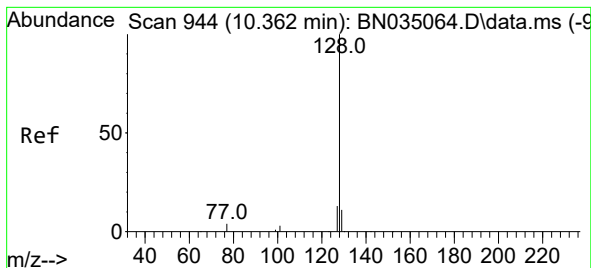
Ion Ratio Lower Upper

82 100

128 48.0 36.5 54.7

54 41.1 28.7 43.1





#9

Naphthalene

Concen: 0.425 ng

RT: 10.127 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

Instrument :

BNA_N

ClientSampleId :

PB165012BSD

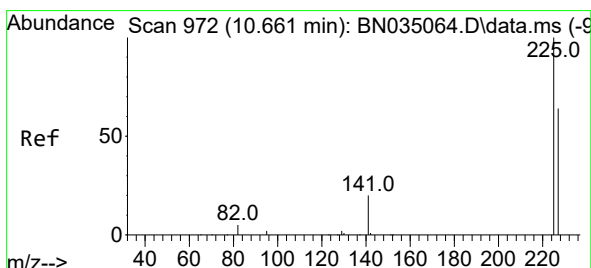
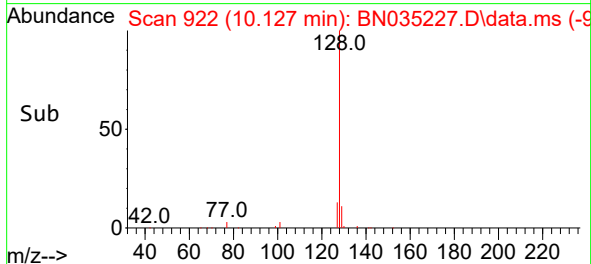
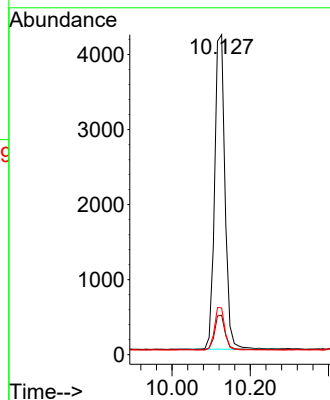
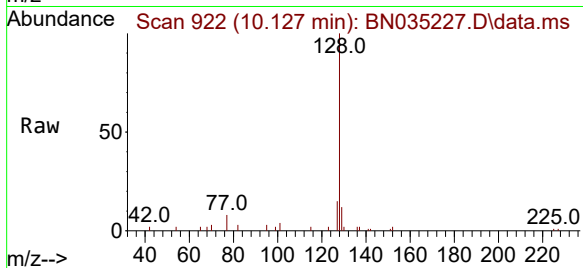
Tgt Ion:128 Resp: 7731

Ion Ratio Lower Upper

128 100

129 12.3 9.6 14.4

127 14.6 11.6 17.4



#10

Hexachlorobutadiene

Concen: 0.323 ng

RT: 10.426 min Scan# 950

Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

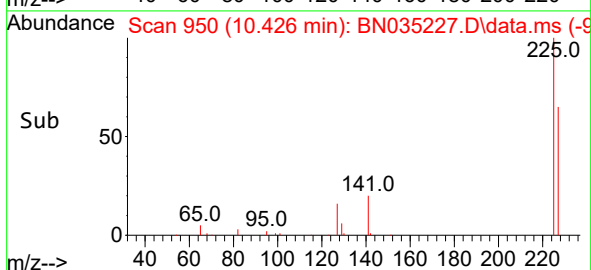
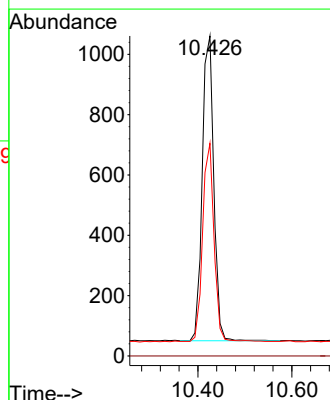
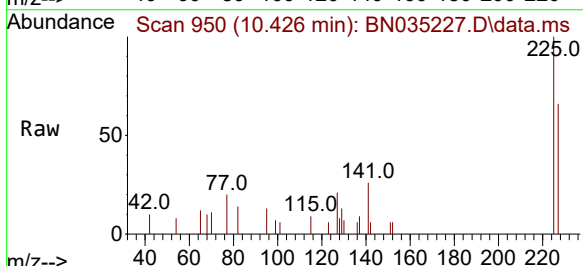
Tgt Ion:225 Resp: 1723

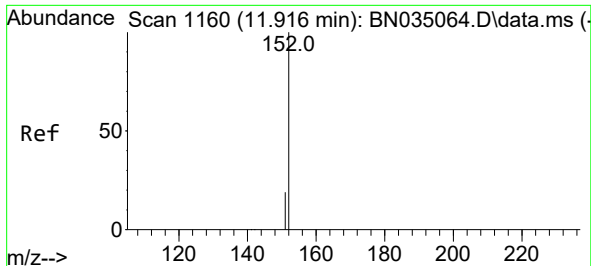
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 51.5 77.3





#11

2-Methylnaphthalene-d10

Concen: 0.349 ng

RT: 11.678 min Scan# 1107

Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

Instrument :

BNA_N

ClientSampleId :

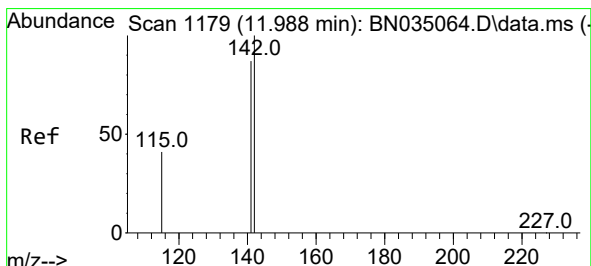
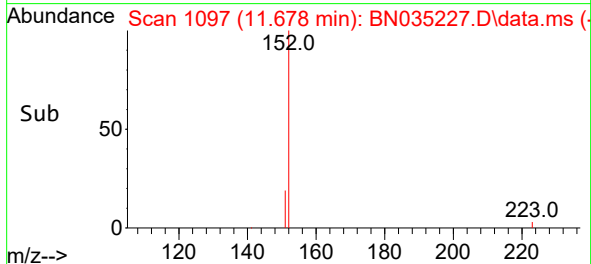
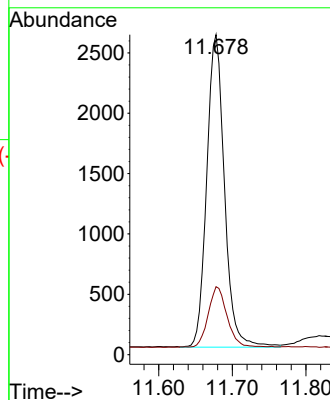
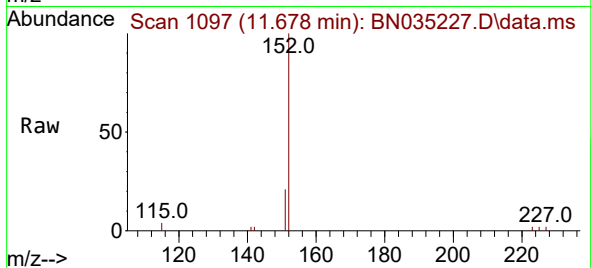
PB165012BSD

Tgt Ion:152 Resp: 4335

Ion Ratio Lower Upper

152 100

151 20.5 16.2 24.4



#12

2-Methylnaphthalene

Concen: 0.386 ng

RT: 11.754 min Scan# 1117

Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

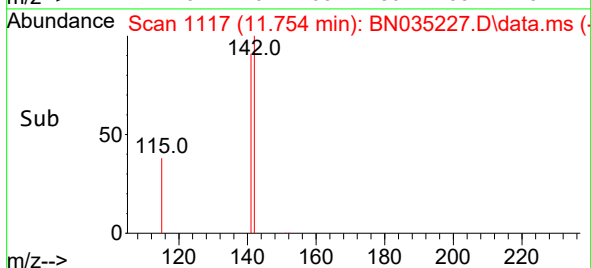
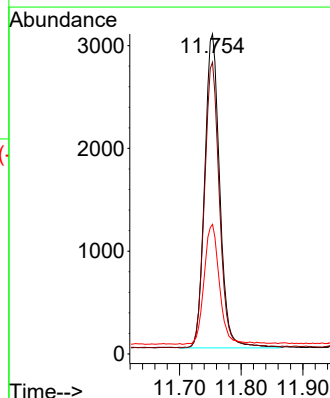
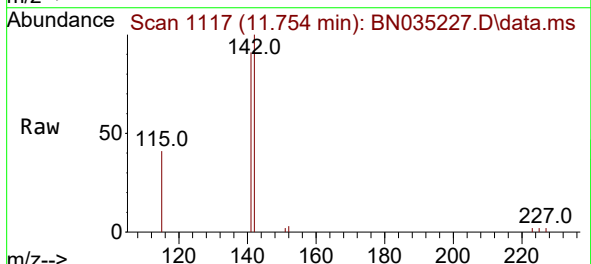
Tgt Ion:142 Resp: 5176

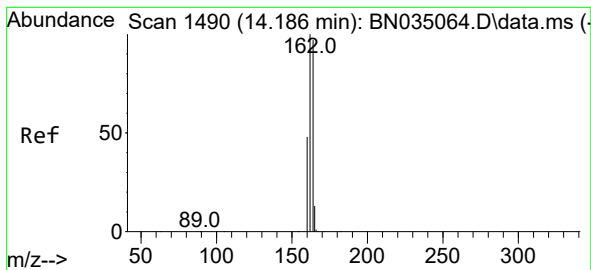
Ion Ratio Lower Upper

142 100

141 91.2 70.1 105.1

115 40.5 34.4 51.6

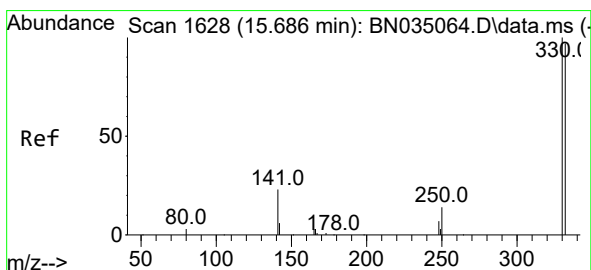
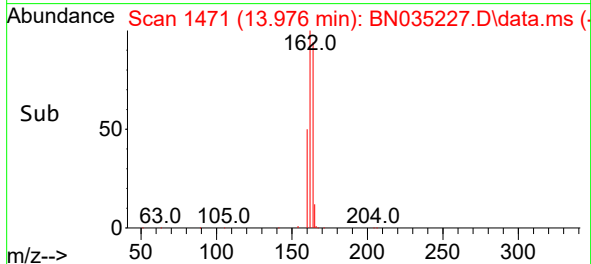
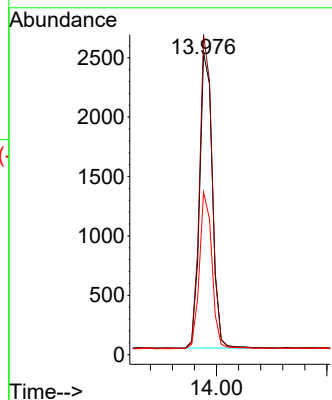
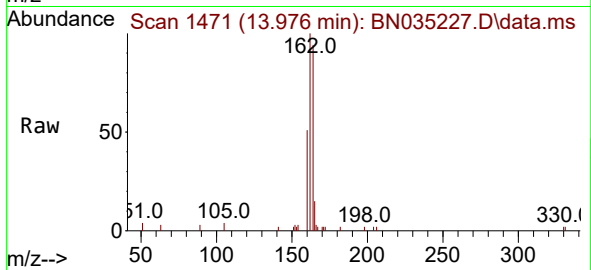




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

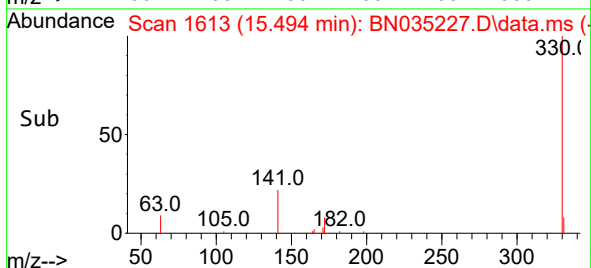
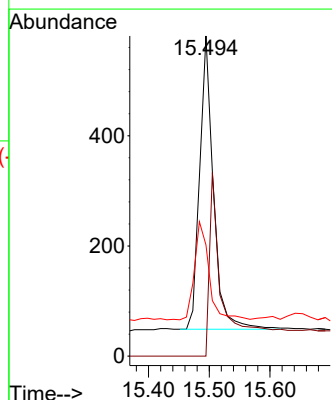
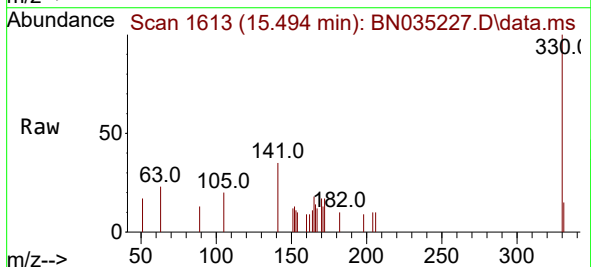
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

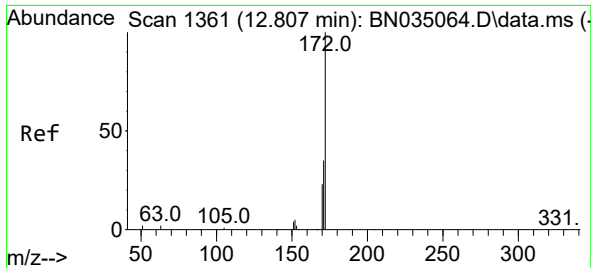
Tgt Ion:164 Resp: 4025
Ion Ratio Lower Upper
164 100
162 106.1 82.2 123.2
160 53.8 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.308 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:330 Resp: 895
Ion Ratio Lower Upper
330 100
332 75.5 76.9 115.3#
141 0.0 29.6 44.4#

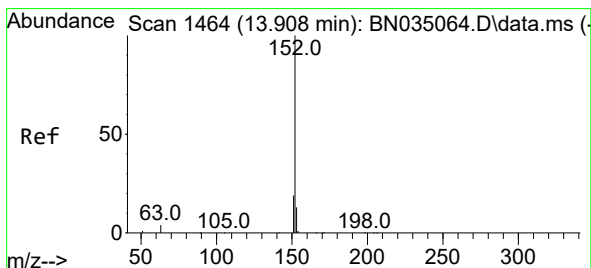
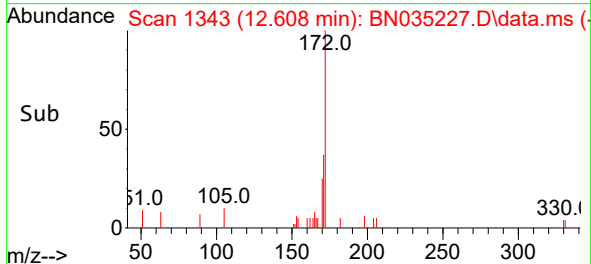
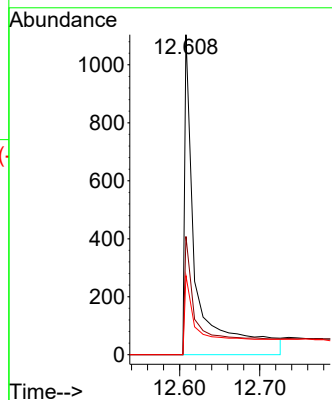
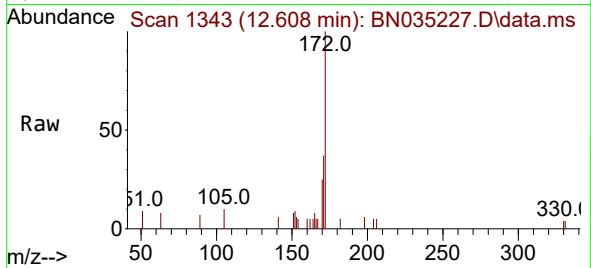




#15
2-Fluorobiphenyl
Concen: 0.075 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

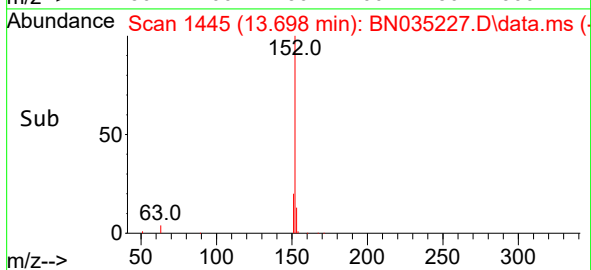
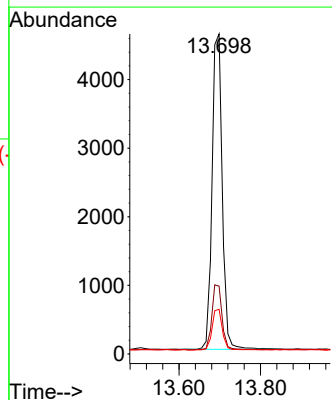
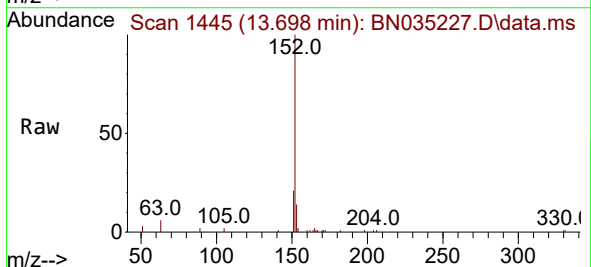
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

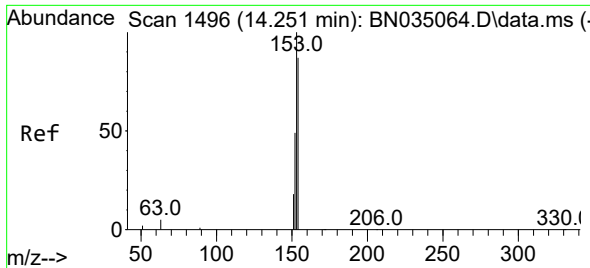
Tgt Ion:172 Resp: 1227
Ion Ratio Lower Upper
172 100
171 37.0 28.2 42.4
170 24.7 19.0 28.6



#16
Acenaphthylene
Concen: 0.464 ng
RT: 13.698 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:152 Resp: 7981
Ion Ratio Lower Upper
152 100
151 20.7 15.8 23.8
153 13.4 10.2 15.4

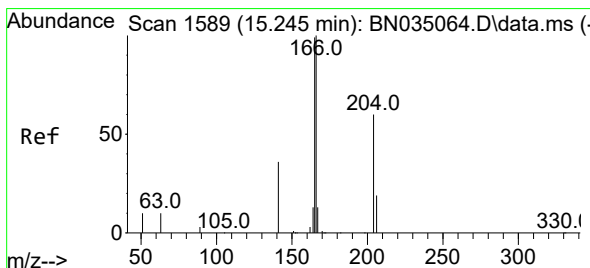
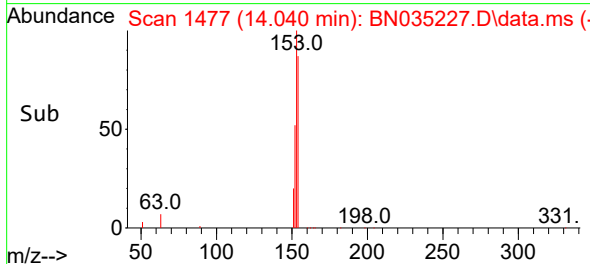
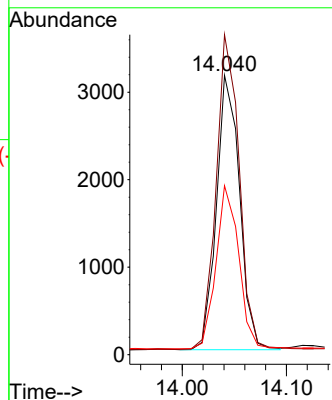
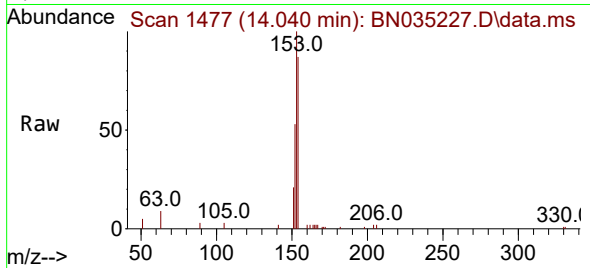




#17
Acenaphthene
Concen: 0.429 ng
RT: 14.040 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

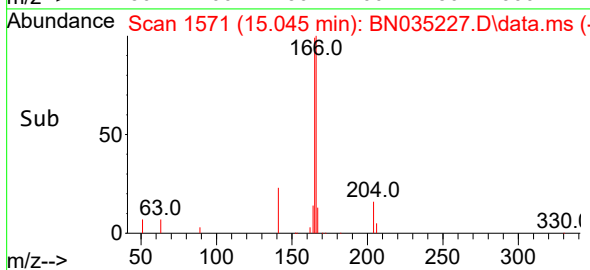
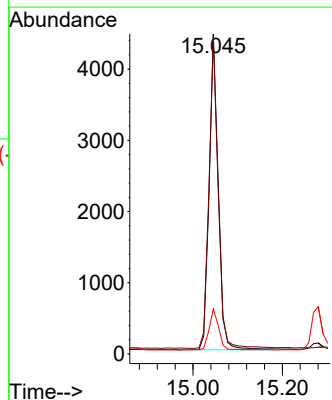
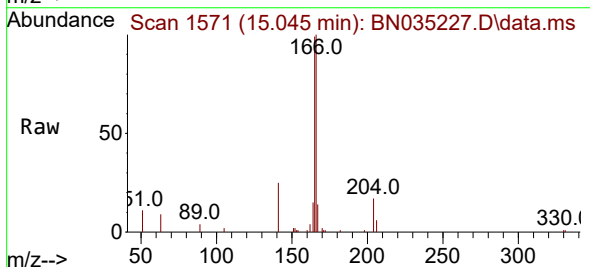
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

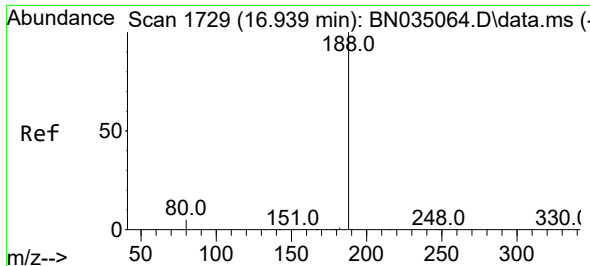
Tgt Ion:154 Resp: 4831
Ion Ratio Lower Upper
154 100
153 115.4 91.6 137.4
152 59.0 45.8 68.6



#18
Fluorene
Concen: 0.378 ng
RT: 15.045 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:166 Resp: 6268
Ion Ratio Lower Upper
166 100
165 99.1 79.1 118.7
167 13.5 10.6 16.0

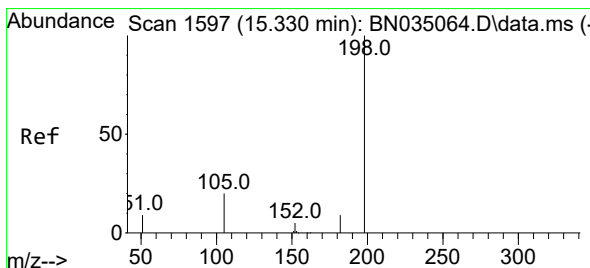
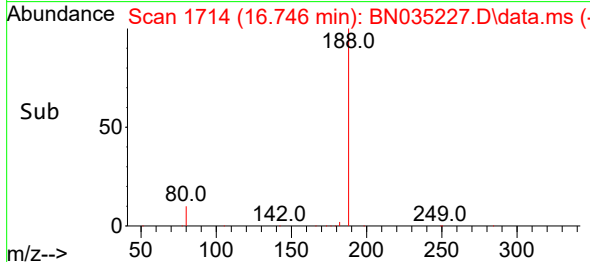
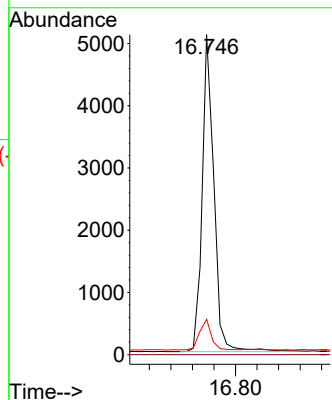
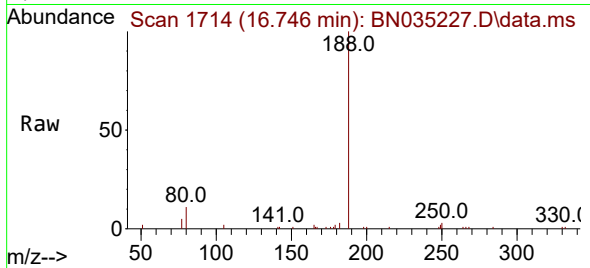




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.746 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

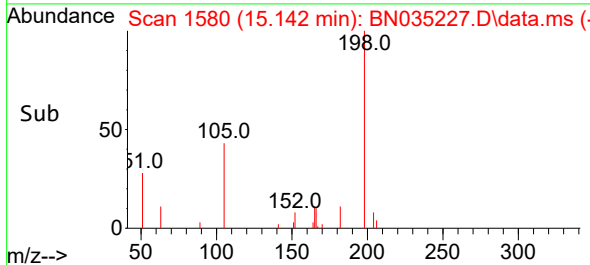
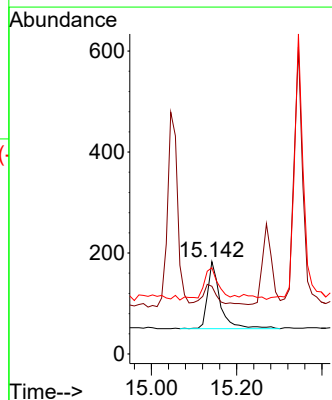
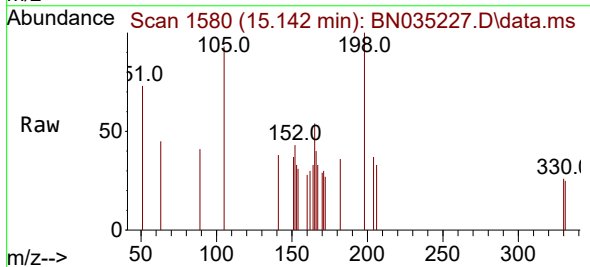
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

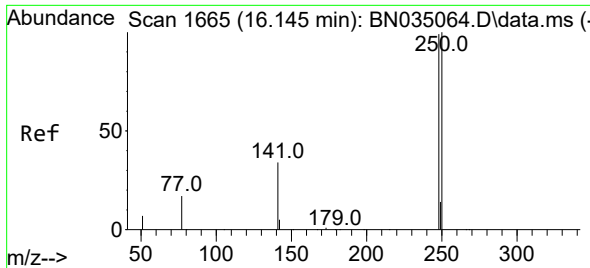
Tgt Ion:188 Resp: 7680
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.1 4.3 6.5#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.172 ng
RT: 15.142 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:198 Resp: 275
Ion Ratio Lower Upper
198 100
51 73.2 29.9 44.9#
105 93.4 23.7 35.5#

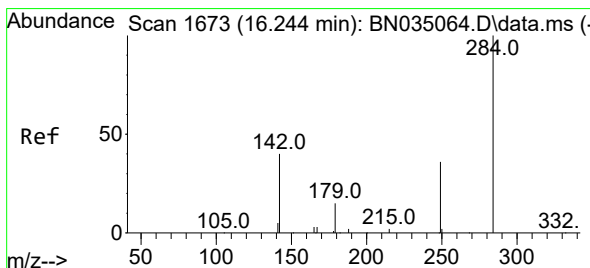
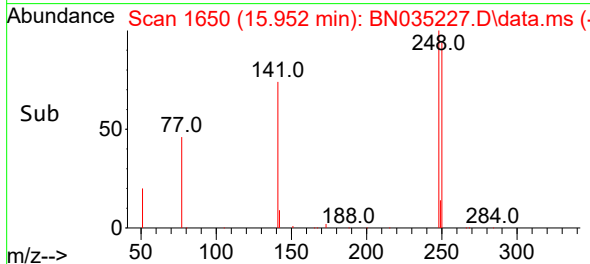
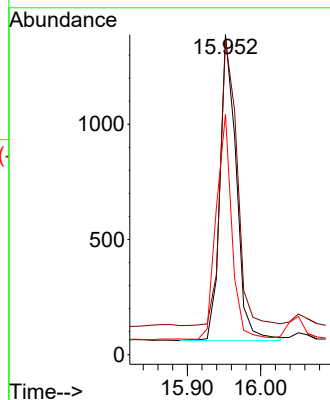
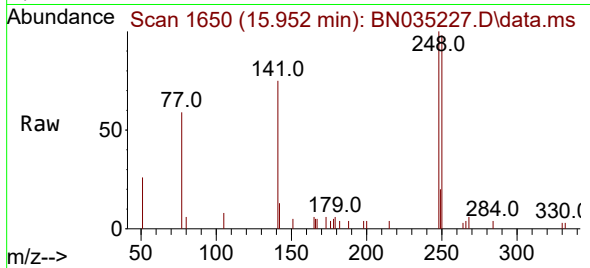




#21
4-Bromophenyl-phenylether
Concen: 0.417 ng
RT: 15.952 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

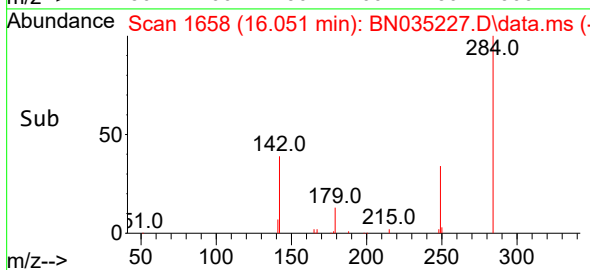
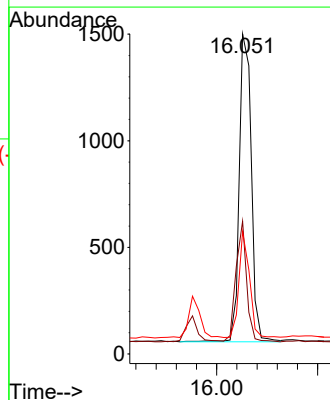
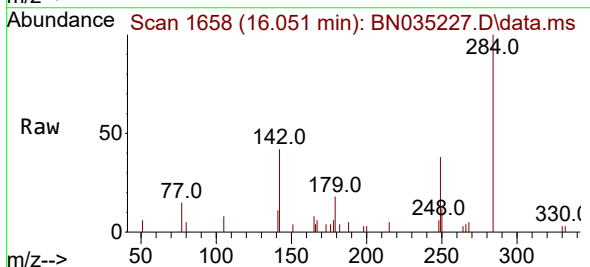
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

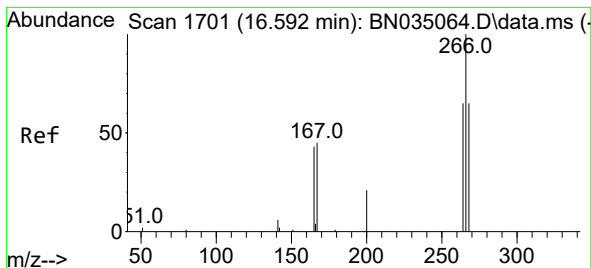
Tgt Ion:248 Resp: 2039
Ion Ratio Lower Upper
248 100
250 98.3 81.2 121.8
141 75.2 29.1 43.7#



#22
Hexachlorobenzene
Concen: 0.473 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.012 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:284 Resp: 2404
Ion Ratio Lower Upper
284 100
142 34.7 28.2 42.4
249 30.3 26.2 39.2





#24

Pentachlorophenol

Concen: 0.599 ng

RT: 16.411 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

Instrument :

BNA_N

ClientSampleId :

PB165012BSD

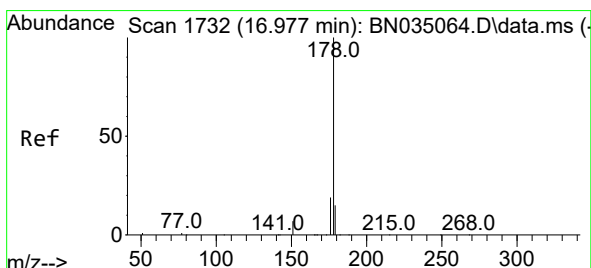
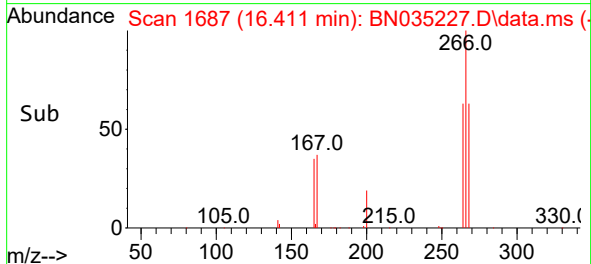
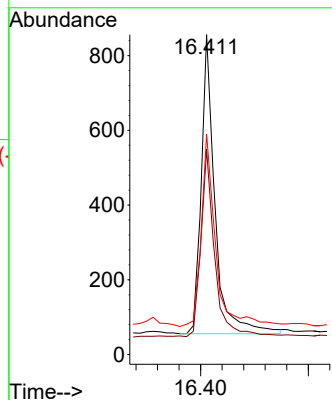
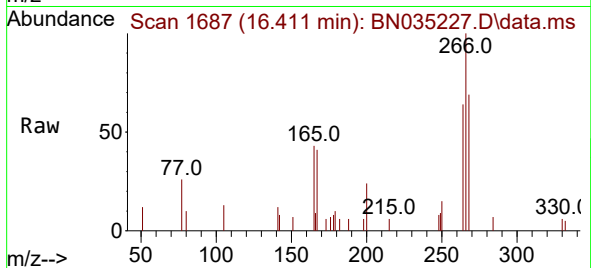
Tgt Ion:266 Resp: 1422

Ion Ratio Lower Upper

266 100

264 61.3 49.4 74.0

268 67.3 52.6 79.0



#25

Phenanthrene

Concen: 0.435 ng

RT: 16.784 min Scan# 1717

Delta R.T. -0.012 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

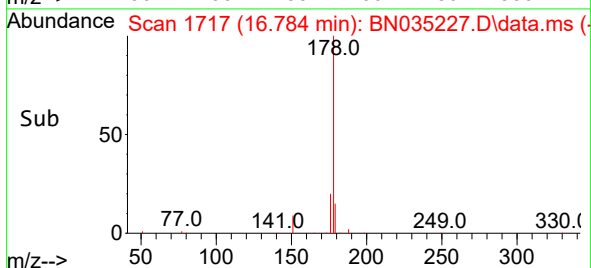
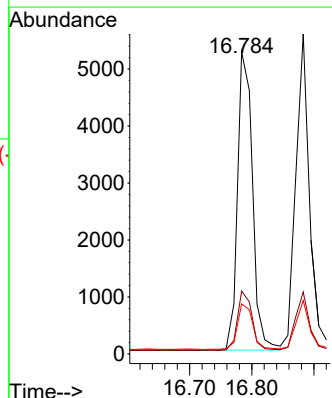
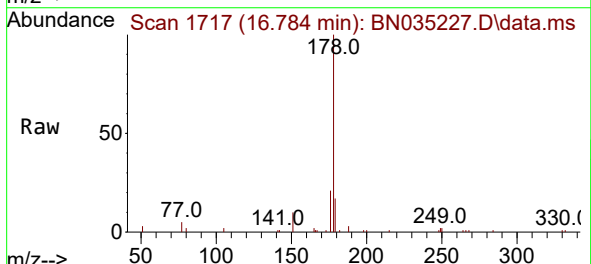
Tgt Ion:178 Resp: 8786

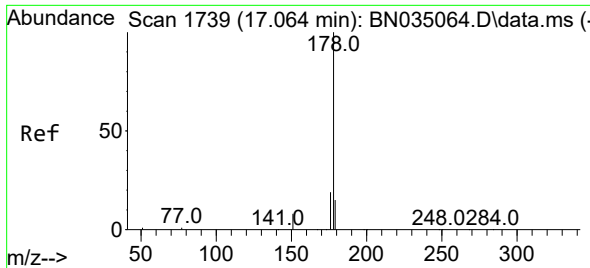
Ion Ratio Lower Upper

178 100

176 19.5 15.2 22.8

179 15.6 12.6 18.8

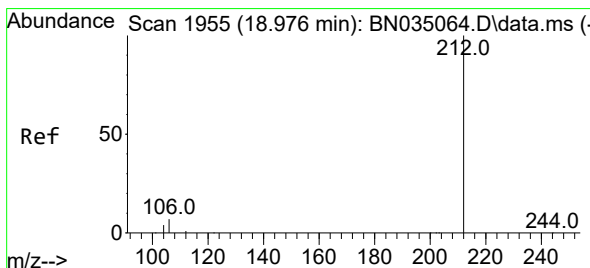
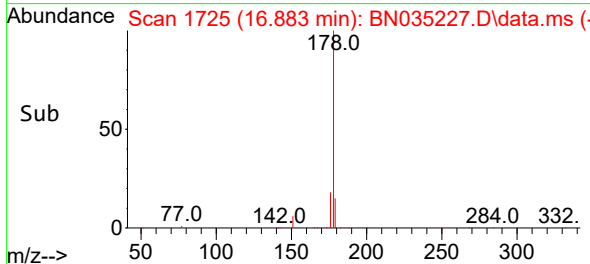
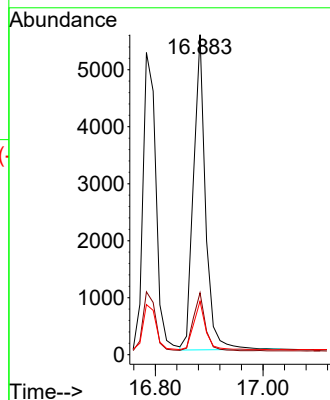
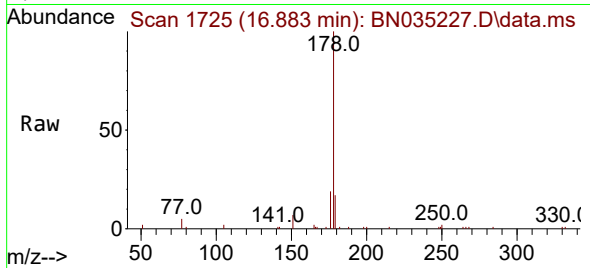




#26
 Anthracene
 Concen: 0.461 ng
 RT: 16.883 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN035227.D
 Acq: 21 Nov 2024 18:12

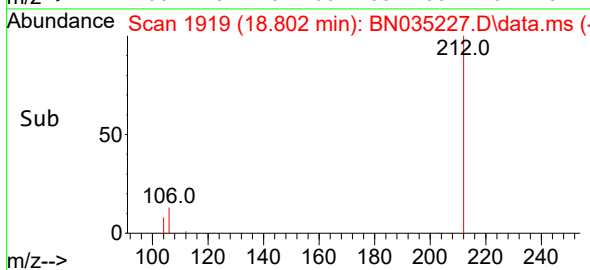
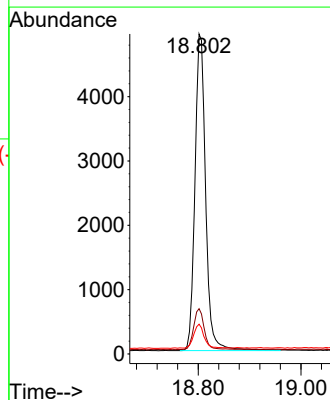
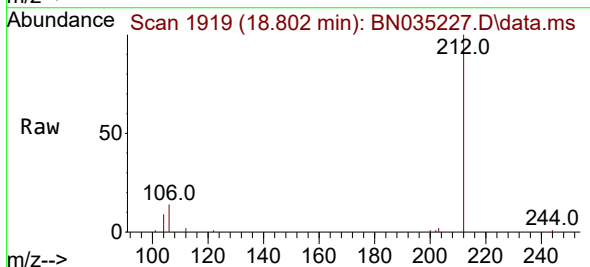
Instrument :
 BNA_N
 ClientSampleId :
 PB165012BSD

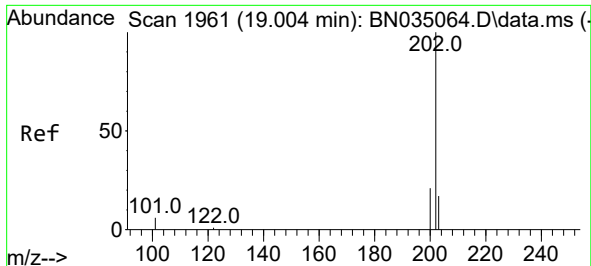
Tgt Ion:	178	Resp:	8563
Ion Ratio	Lower	Upper	
178	100		
176	18.7	14.6	22.0
179	15.6	12.2	18.2



#27
 Fluoranthene-d10
 Concen: 0.304 ng
 RT: 18.802 min Scan# 1919
 Delta R.T. -0.005 min
 Lab File: BN035227.D
 Acq: 21 Nov 2024 18:12

Tgt Ion:	212	Resp:	7158
Ion Ratio	Lower	Upper	
212	100		
106	12.5	6.0	9.0#
104	7.2	3.5	5.3#

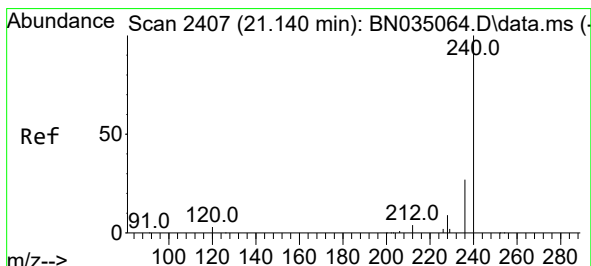
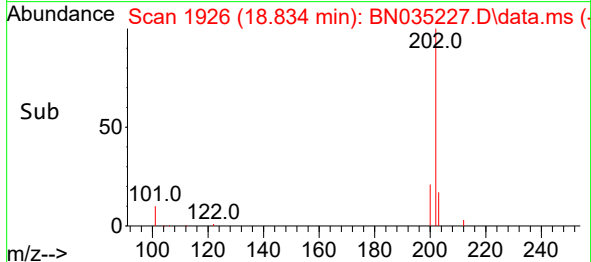
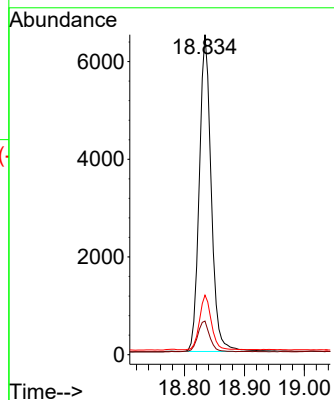
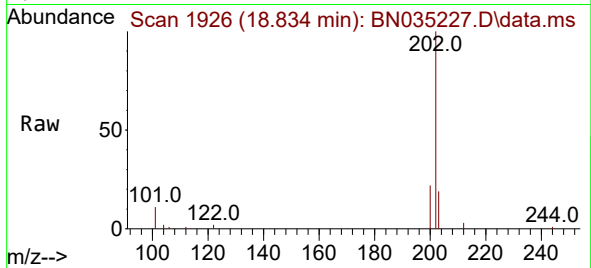




#28
Fluoranthene
Concen: 0.323 ng
RT: 18.834 min Scan# 1961
Delta R.T. -0.005 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

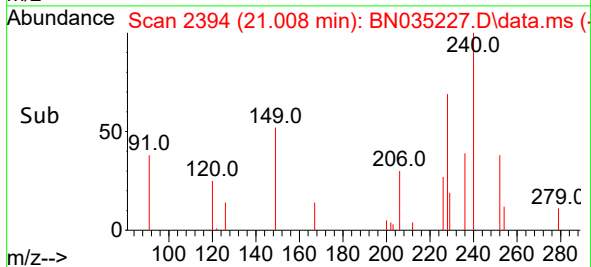
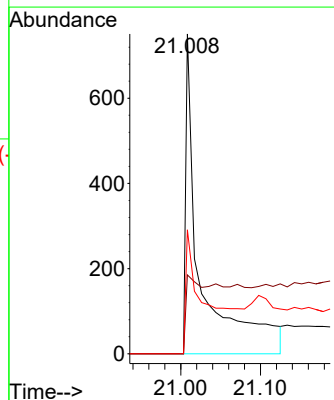
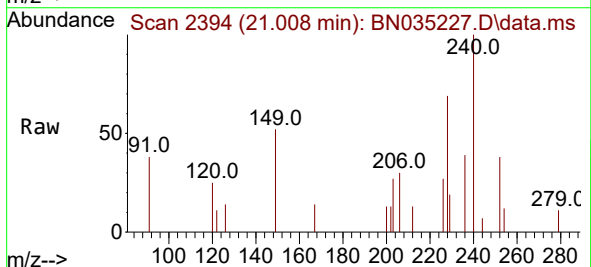
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

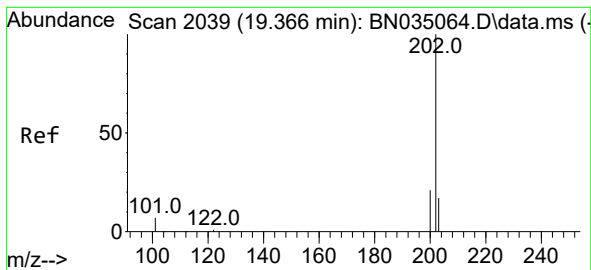
Tgt Ion:202 Resp: 8986
Ion Ratio Lower Upper
202 100
101 9.6 5.2 7.8#
203 16.9 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.008 min Scan# 2394
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:240 Resp: 1000
Ion Ratio Lower Upper
240 100
120 24.6 3.8 5.6#
236 38.7 22.2 33.2#





#30

Pyrene

Concen: 2.721 ng

RT: 19.201 min Scan# 2055

Delta R.T. -0.005 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

Instrument :

BNA_N

ClientSampleId :

PB165012BSD

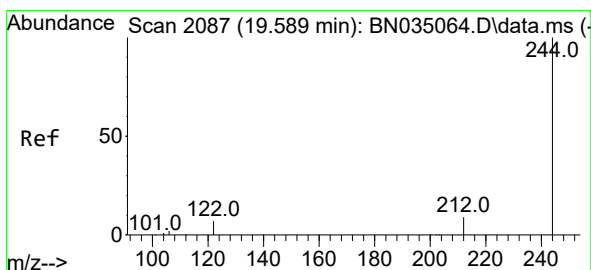
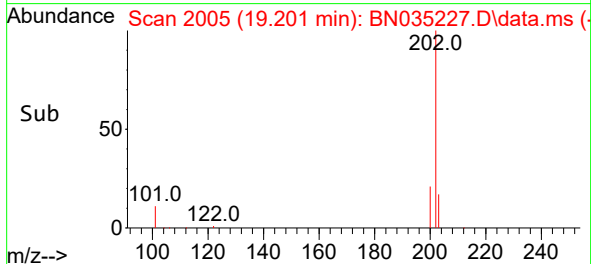
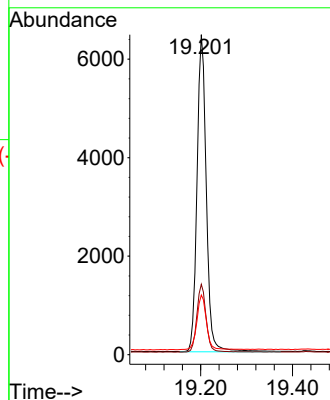
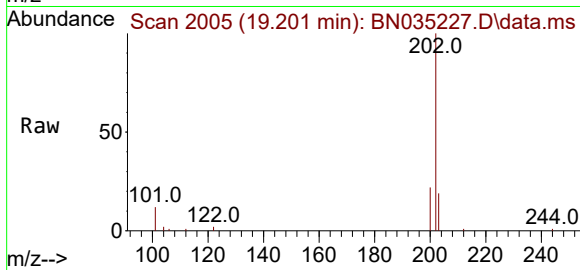
Tgt Ion:202 Resp: 9061

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 17.5 14.2 21.4



#31

Terphenyl-d14

Concen: 2.267 ng

RT: 19.433 min Scan# 2055

Delta R.T. -0.005 min

Lab File: BN035227.D

Acq: 21 Nov 2024 18:12

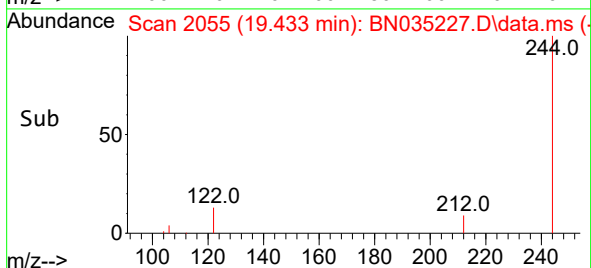
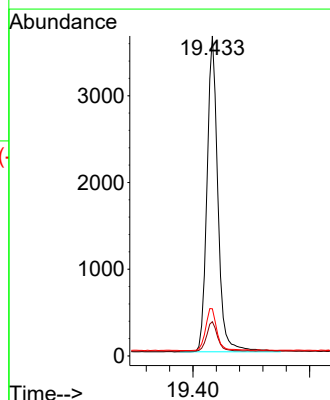
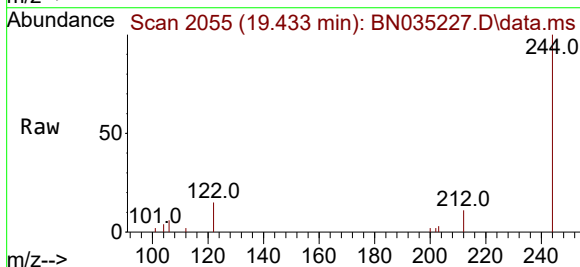
Tgt Ion:244 Resp: 4758

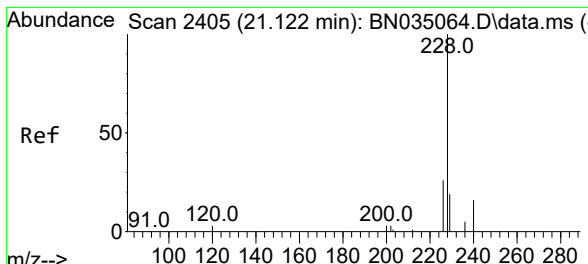
Ion Ratio Lower Upper

244 100

212 10.7 7.6 11.4

122 14.7 6.1 9.1#



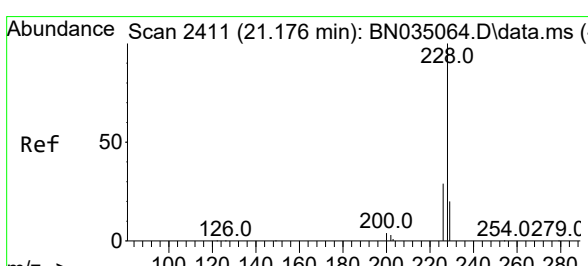
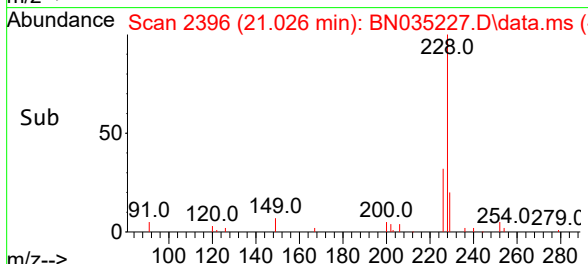
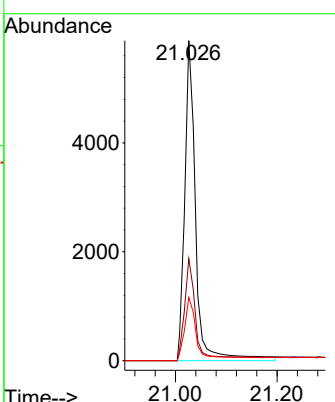
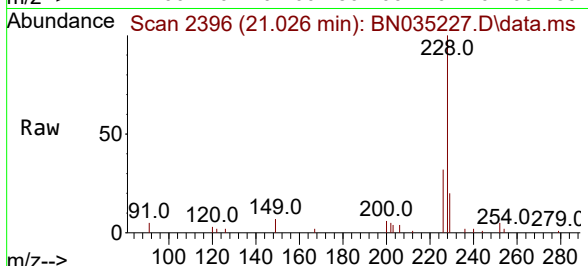


#32
 Benzo(a)anthracene
 Concen: 2.439 ng
 RT: 21.026 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN035227.D
 Acq: 21 Nov 2024 18:12

Instrument :
 BNA_N
 ClientSampleId :
 PB165012BSD

Tgt Ion:228 Resp: 8491

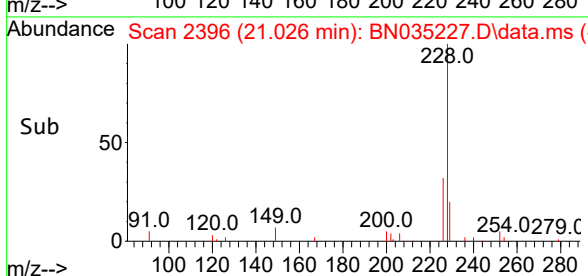
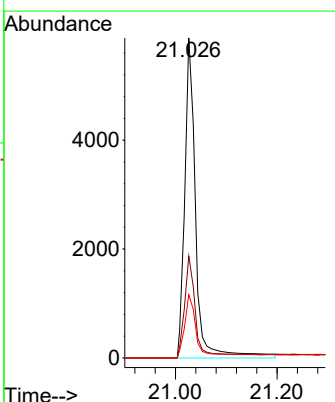
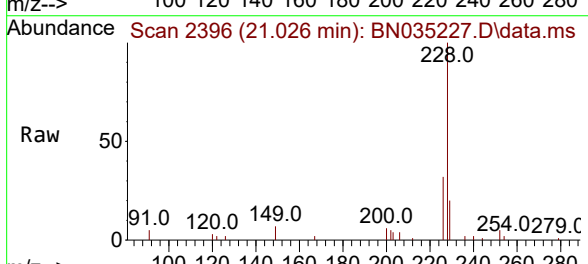
Ion	Ratio	Lower	Upper
228	100		
226	31.9	21.4	32.0
229	19.8	15.7	23.5

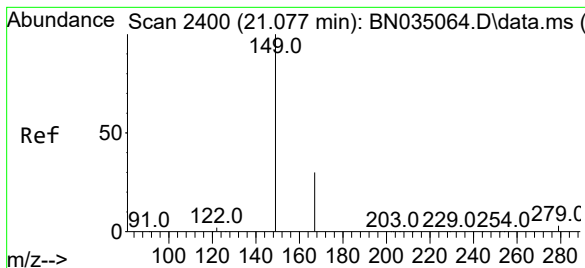


#33
 Chrysene
 Concen: 2.462 ng
 RT: 21.026 min Scan# 2396
 Delta R.T. -0.009 min
 Lab File: BN035227.D
 Acq: 21 Nov 2024 18:12

Tgt Ion:228 Resp: 8491

Ion	Ratio	Lower	Upper
228	100		
226	31.9	23.7	35.5
229	19.8	16.2	24.4

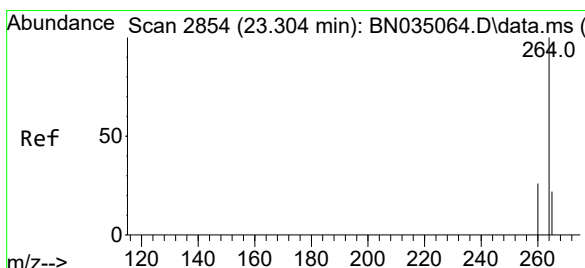
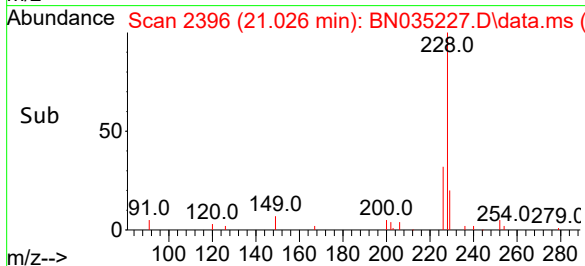
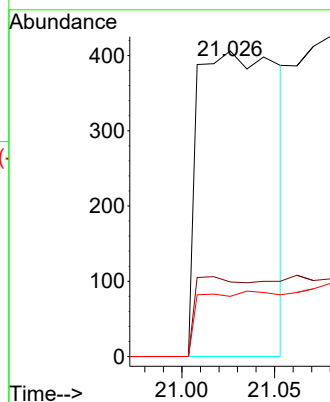
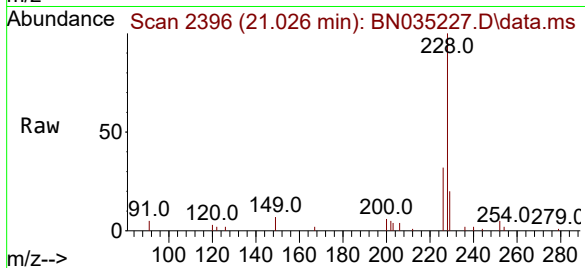




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.596 ng
RT: 21.026 min Scan# 21089
Delta R.T. -0.000 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

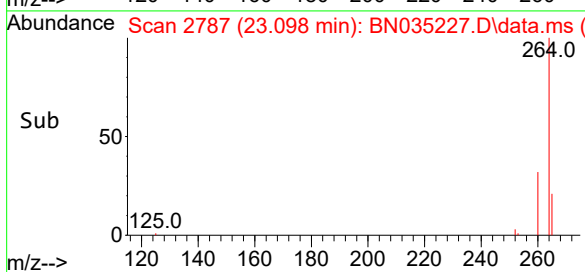
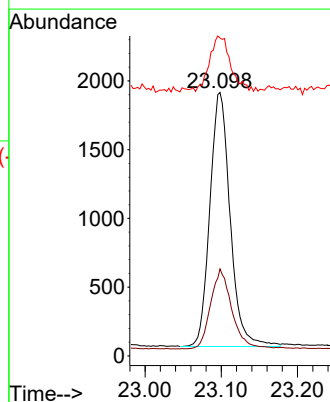
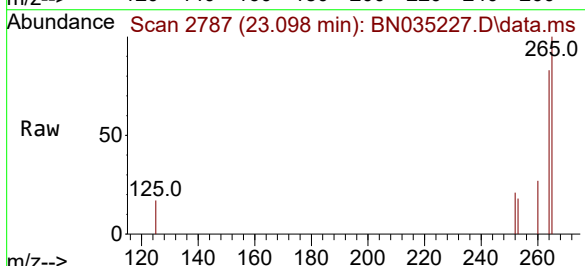
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

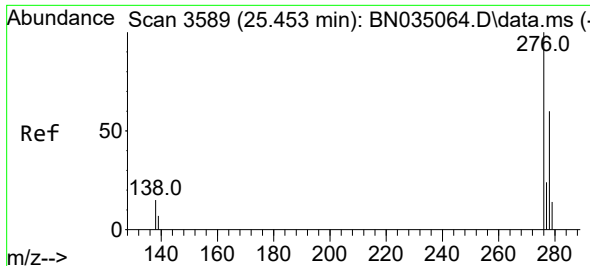
Tgt Ion:149 Resp: 1089
Ion Ratio Lower Upper
149 100
167 16.3 23.2 34.8#
279 21.2 3.2 4.8#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.098 min Scan# 2787
Delta R.T. -0.006 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:264 Resp: 3421
Ion Ratio Lower Upper
264 100
260 33.0 20.9 31.3#
265 120.7 35.4 53.2#

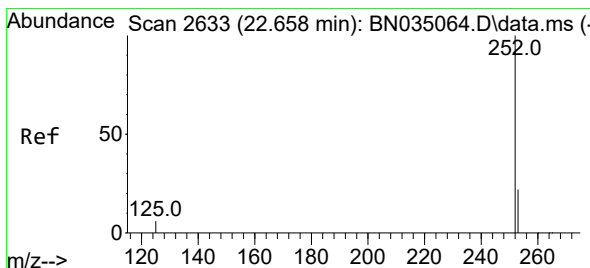
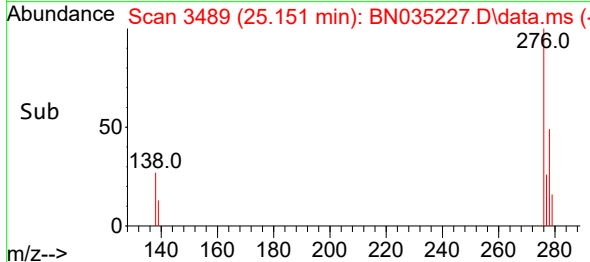
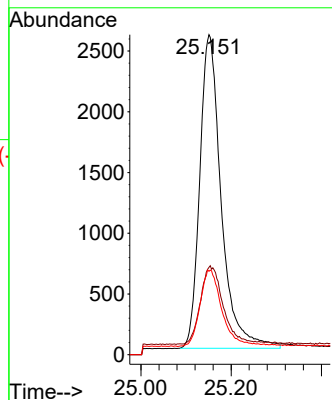
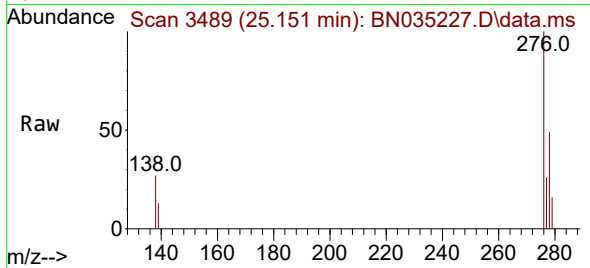




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.625 ng
RT: 25.151 min Scan# 34
Delta R.T. -0.006 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

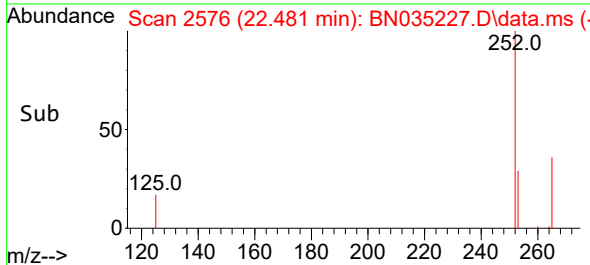
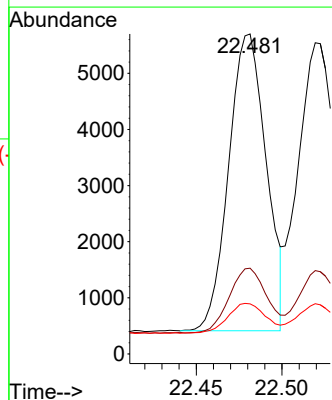
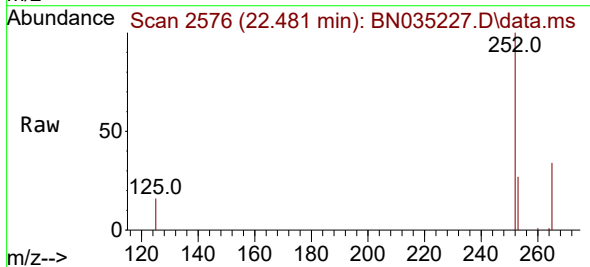
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

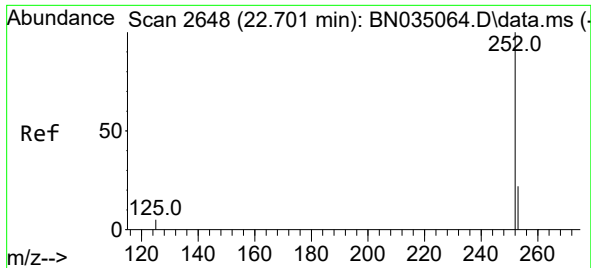
Tgt Ion:276 Resp: 8532
Ion Ratio Lower Upper
276 100
138 24.5 13.0 19.4#
277 22.9 19.8 29.6



#37
Benzo(b)fluoranthene
Concen: 0.698 ng
RT: 22.481 min Scan# 2576
Delta R.T. -0.006 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

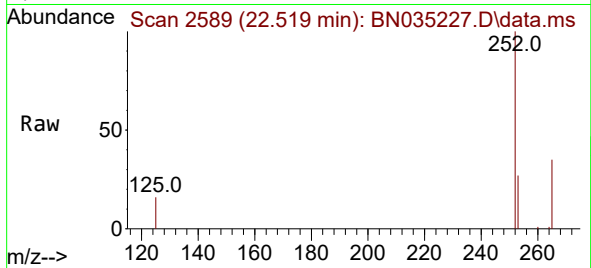
Tgt Ion:252 Resp: 8039
Ion Ratio Lower Upper
252 100
253 26.8 19.3 28.9
125 15.6 6.2 9.2#



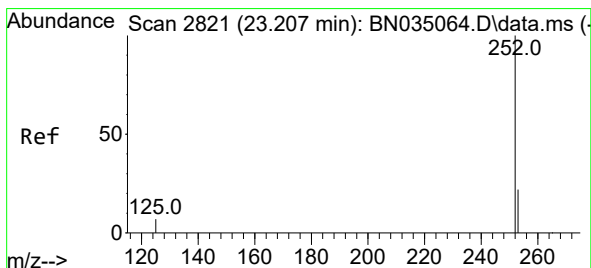
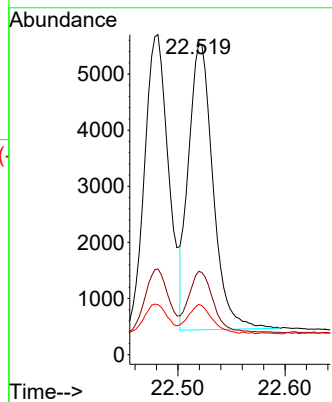


#38
Benzo(k)fluoranthene
Concen: 0.703 ng
RT: 22.519 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Instrument :
BNA_N
ClientSampleId :
PB165012BSD

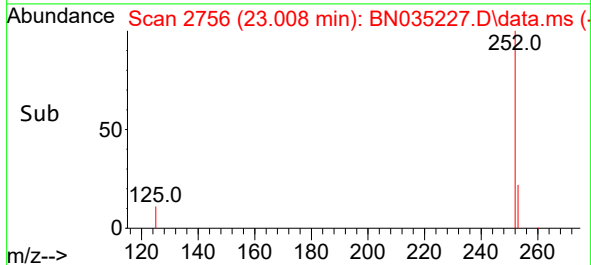
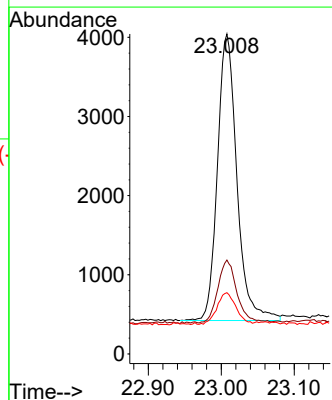
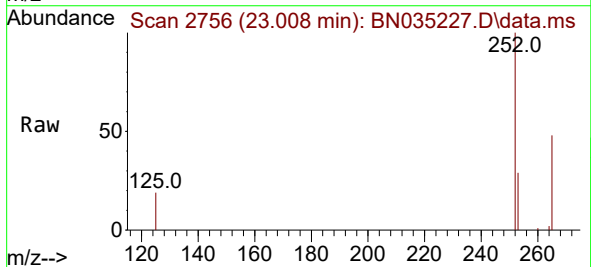


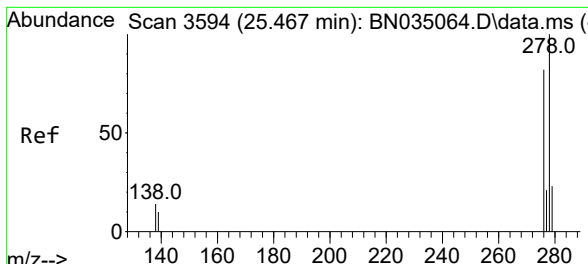
Tgt Ion:252 Resp: 8091
Ion Ratio Lower Upper
252 100
253 26.8 19.5 29.3
125 16.1 6.5 9.7#



#39
Benzo(a)pyrene
Concen: 0.663 ng
RT: 23.008 min Scan# 2756
Delta R.T. -0.006 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:252 Resp: 6718
Ion Ratio Lower Upper
252 100
253 29.3 20.1 30.1
125 19.2 7.5 11.3#

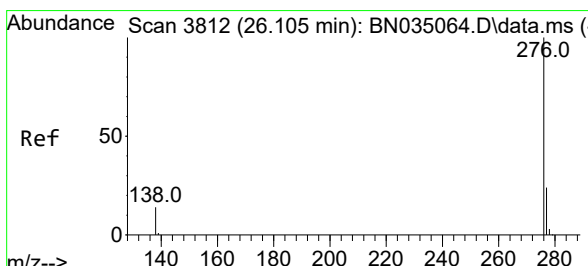
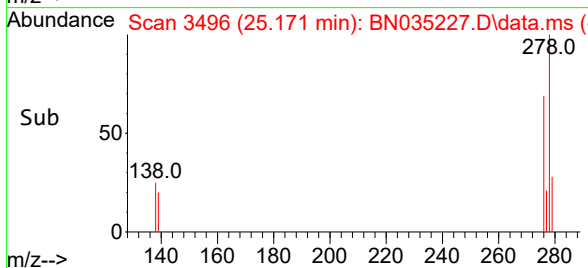
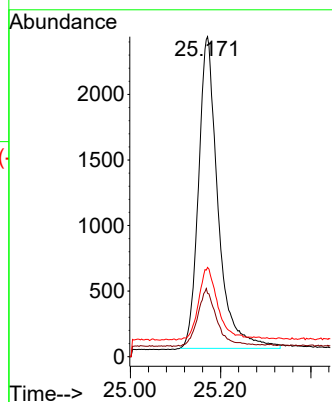
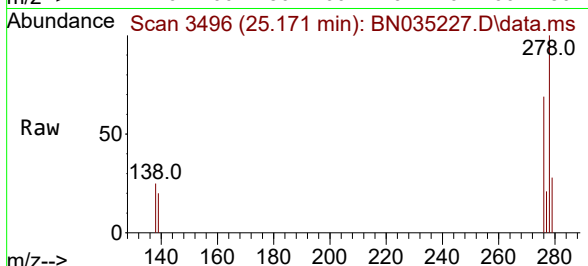




#40
Dibenzo(a,h)anthracene
Concen: 0.659 ng
RT: 25.171 min Scan# 34
Delta R.T. -0.006 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

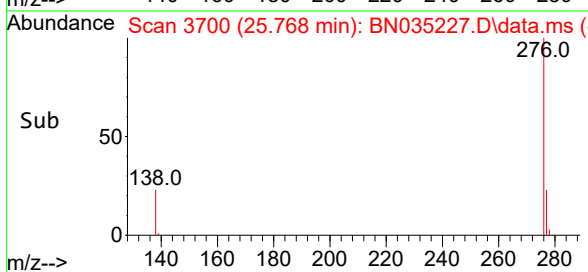
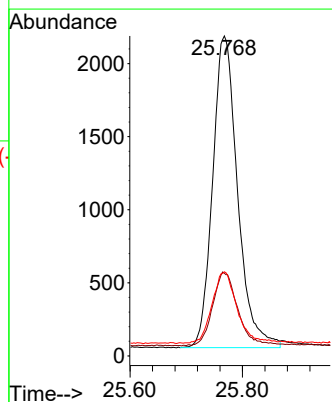
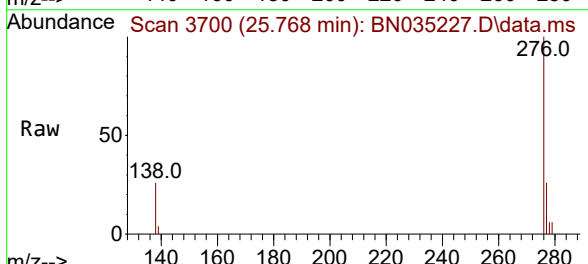
Instrument :
BNA_N
ClientSampleId :
PB165012BSD

Tgt Ion:278 Resp: 7121
Ion Ratio Lower Upper
278 100
139 19.8 9.3 13.9#
279 27.9 19.7 29.5



#41
Benzo(g,h,i)perylene
Concen: 0.571 ng
RT: 25.768 min Scan# 3700
Delta R.T. -0.009 min
Lab File: BN035227.D
Acq: 21 Nov 2024 18:12

Tgt Ion:276 Resp: 6570
Ion Ratio Lower Upper
276 100
277 25.9 19.9 29.9
138 26.3 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
 Data File : BN035235.D
 Acq On : 21 Nov 2024 23:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 21 23:33:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:00:03 2024
 Response via : Initial Calibration

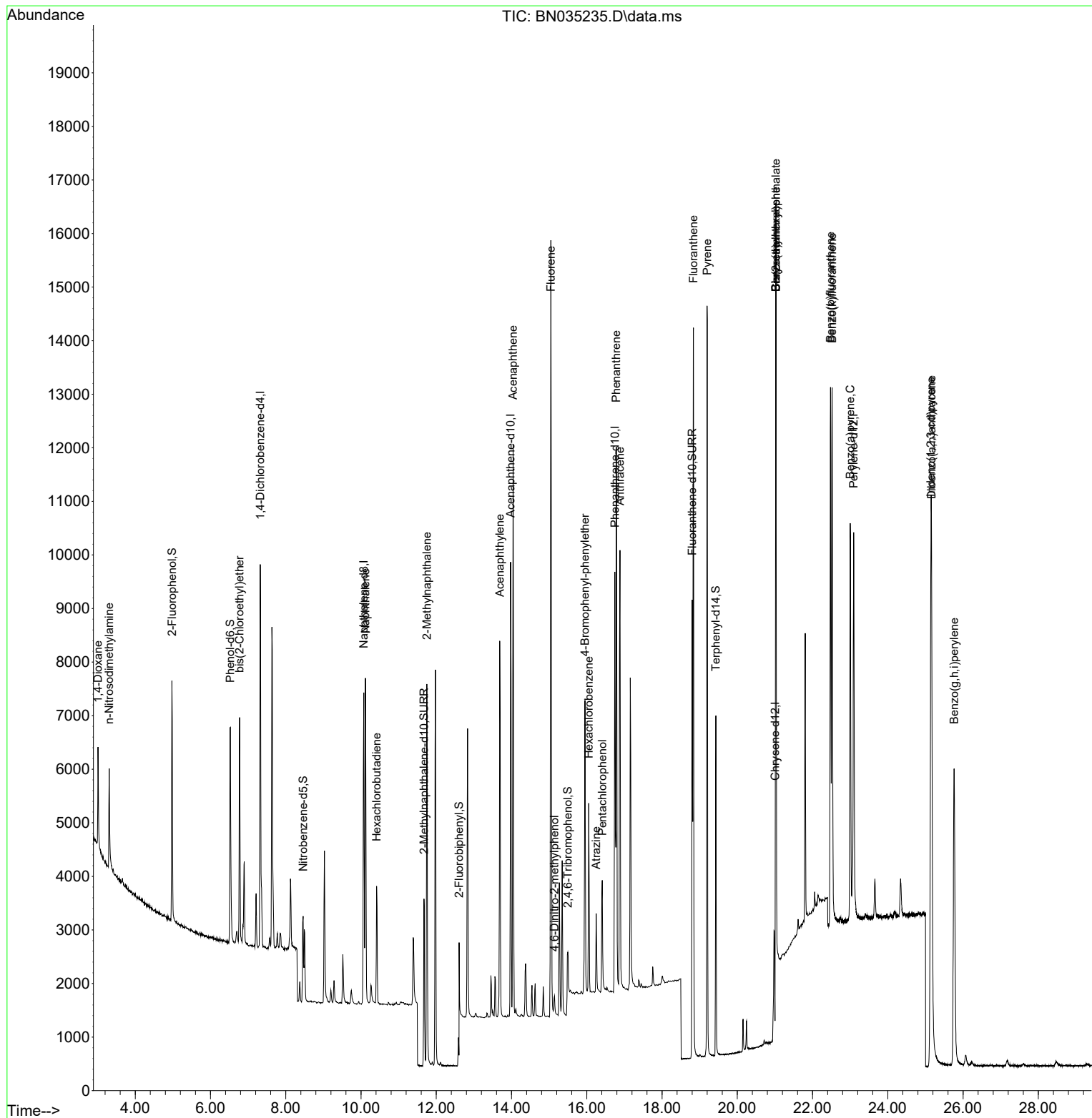
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.322	152	3350	0.400	ng	0.00
7) Naphthalene-d8	10.073	136	7674	0.400	ng	0.00
13) Acenaphthene-d10	13.976	164	4706	0.400	ng	-0.01
19) Phenanthrene-d10	16.746	188	9785	0.400	ng	# 0.00
29) Chrysene-d12	21.008	240	924	0.400	ng	# 0.00
35) Perylene-d12	23.092	264	8785	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.975	112	3641	0.428	ng	0.00
5) Phenol-d6	6.528	99	4263	0.400	ng	0.00
8) Nitrobenzene-d5	8.461	82	1602	0.240	ng	0.00
11) 2-Methylnaphthalene-d10	11.674	152	4455	0.326	ng	0.00
14) 2,4,6-Tribromophenol	15.494	330	1140	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.608	172	1202	0.063	ng	0.00
27) Fluoranthene-d10	18.802	212	9657	0.322	ng	0.00
31) Terphenyl-d14	19.429	244	6336	3.268	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.011	88	1275	0.419	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.307	42	994	0.351	ng	# 88
6) bis(2-Chloroethyl)ether	6.773	93	3222	0.403	ng	97
9) Naphthalene	10.116	128	7849	0.392	ng	100
10) Hexachlorobutadiene	10.415	225	1778	0.303	ng	# 99
12) 2-Methylnaphthalene	11.750	142	5199	0.352	ng	96
16) Acenaphthylene	13.688	152	7880	0.392	ng	99
17) Acenaphthene	14.040	154	5046	0.383	ng	98
18) Fluorene	15.045	166	6711	0.346	ng	99
20) 4,6-Dinitro-2-methylph...	15.142	198	322	0.158	ng	# 47
21) 4-Bromophenyl-phenylether	15.952	248	2324	0.373	ng	# 84
22) Hexachlorobenzene	16.051	284	2690	0.416	ng	98
23) Atrazine	16.250	200	1260	0.225	ng	95
24) Pentachlorophenol	16.411	266	1189	0.393	ng	97
25) Phenanthrene	16.784	178	10390	0.403	ng	99
26) Anthracene	16.883	178	9521	0.403	ng	99
28) Fluoranthene	18.834	202	12485	0.353	ng	# 97
30) Pyrene	19.201	202	12814	4.164	ng	99
32) Benzo(a)anthracene	21.026	228	11745	3.650	ng	96
33) Chrysene	21.026	228	11745	3.685	ng	99
34) Bis(2-ethylhexyl)phtha...	21.026	149	1040	0.616	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.145	276	13630	0.389	ng	# 90
37) Benzo(b)fluoranthene	22.475	252	11553	0.391	ng	# 95
38) Benzo(k)fluoranthene	22.519	252	11920	0.403	ng	# 94
39) Benzo(a)pyrene	23.002	252	10296	0.396	ng	# 93
40) Dibenzo(a,h)anthracene	25.162	278	10355	0.373	ng	# 90
41) Benzo(g,h,i)perylene	25.762	276	11294	0.382	ng	# 91

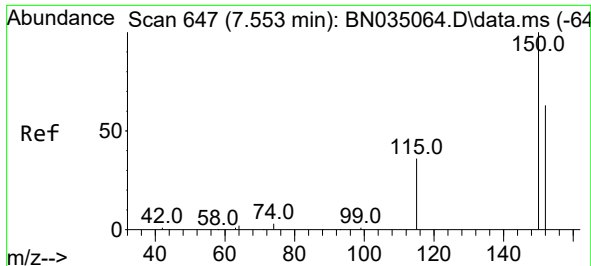
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112124\
Data File : BN035235.D
Acq On : 21 Nov 2024 23:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

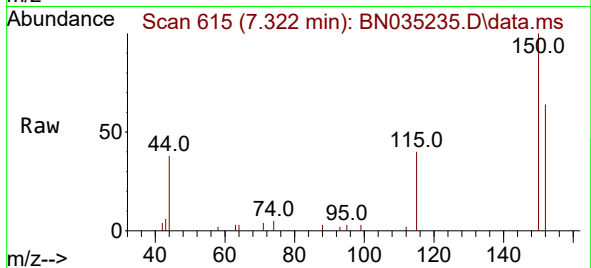
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:00:03 2024
Response via : Initial Calibration



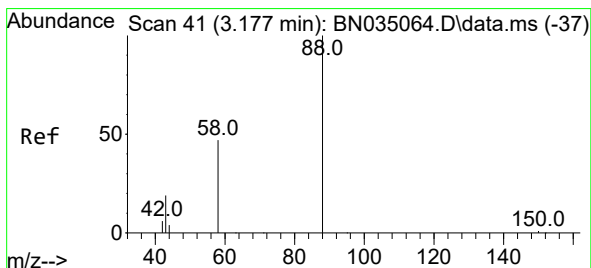
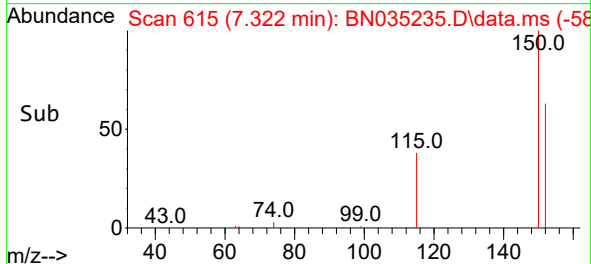
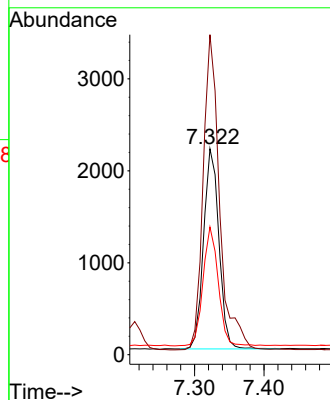


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.322 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

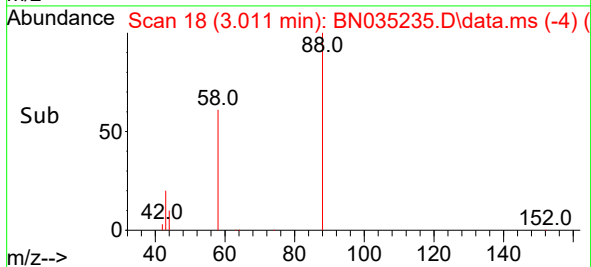
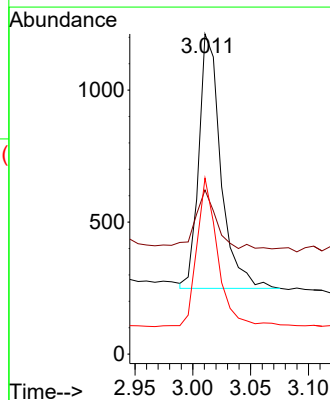
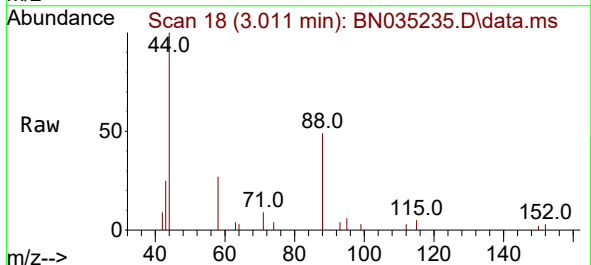


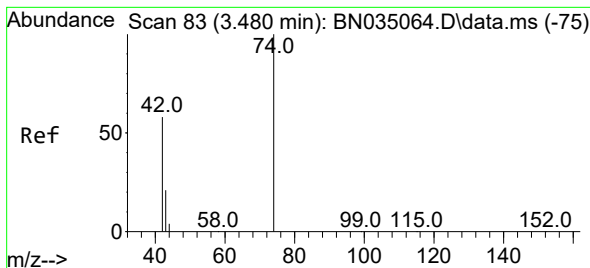
Tgt Ion:152 Resp: 3350
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 62.1 47.8 71.6



#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.011 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 88 Resp: 1275
Ion Ratio Lower Upper
88 100
43 22.0 16.9 25.3
58 56.2 39.0 58.4

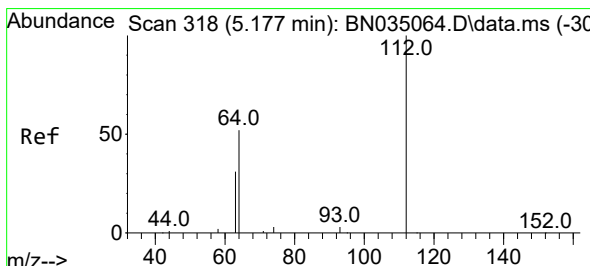
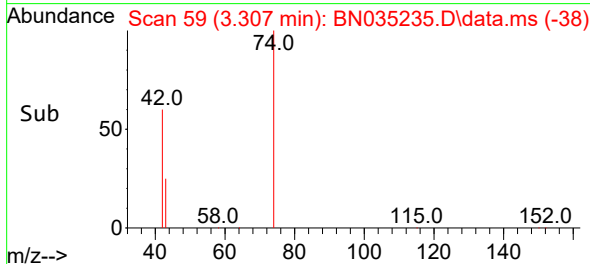
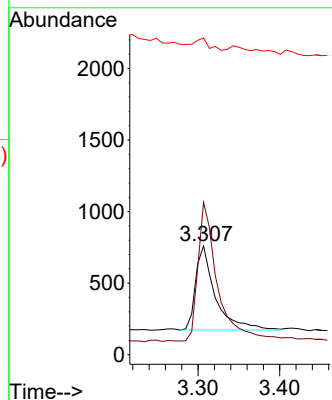
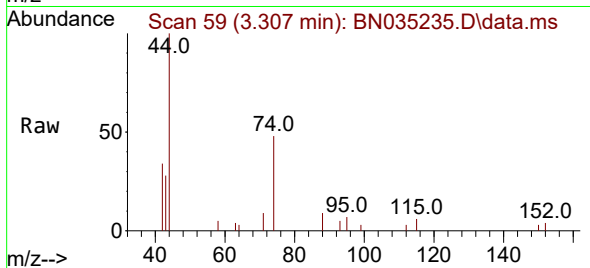




#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.307 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

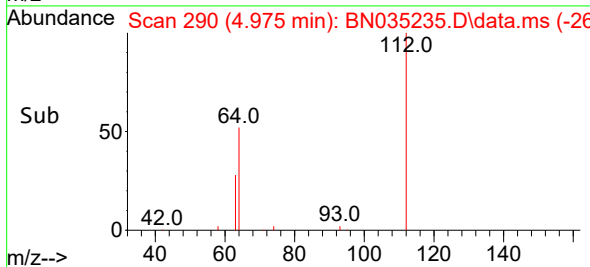
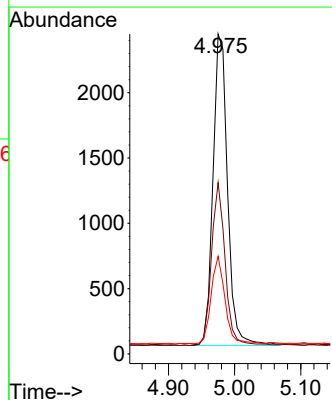
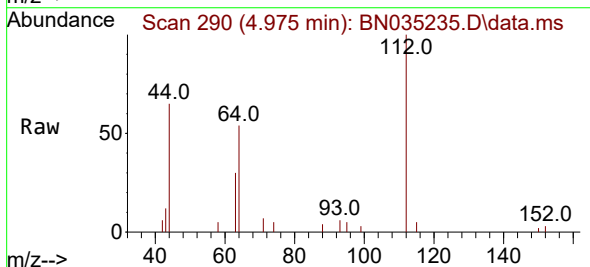
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

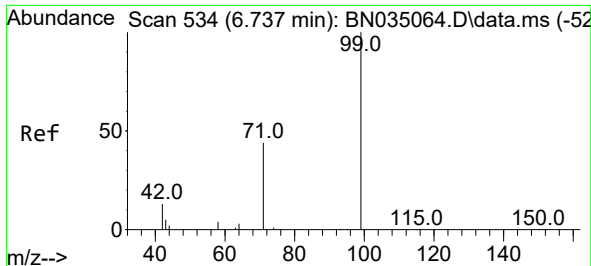
Tgt Ion: 42 Resp: 994
Ion Ratio Lower Upper
42 100
74 166.1 120.8 181.2
44 10.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.428 ng
RT: 4.975 min Scan# 290
Delta R.T. -0.007 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 112 Resp: 3641
Ion Ratio Lower Upper
112 100
64 48.9 39.7 59.5
63 26.9 23.0 34.4

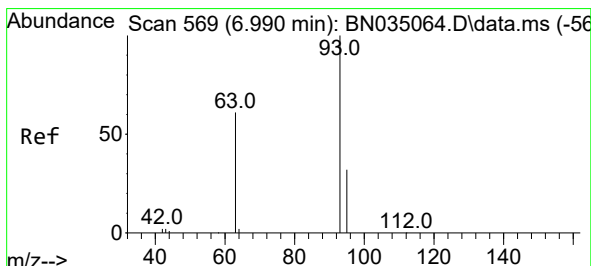
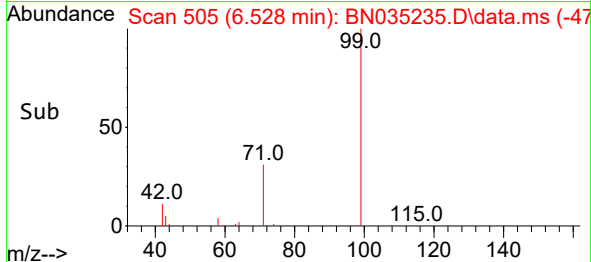
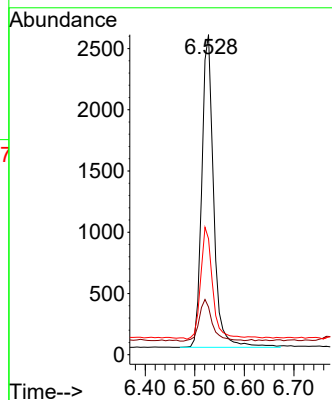
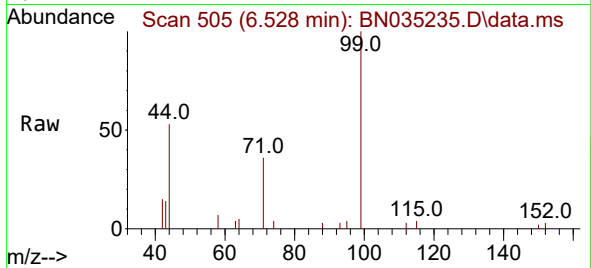




#5
Phenol-d6
Concen: 0.400 ng
RT: 6.528 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

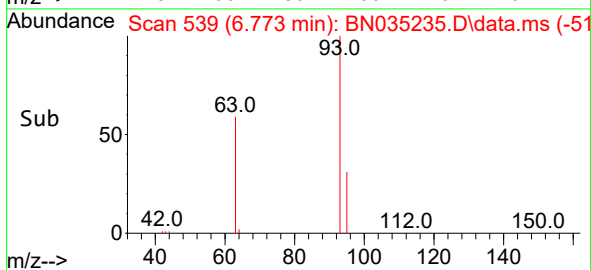
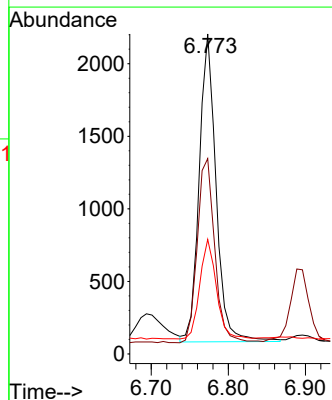
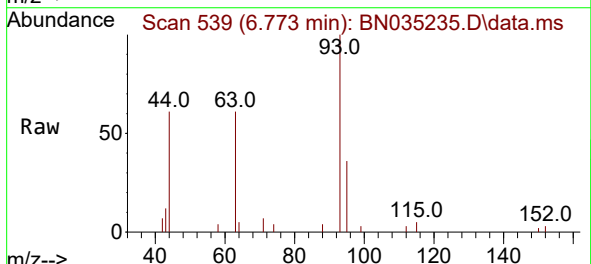
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

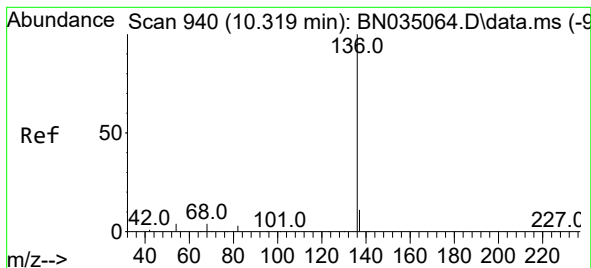
Tgt Ion: 99 Resp: 4263
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 35.9 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion: 93 Resp: 3222
Ion Ratio Lower Upper
93 100
63 61.9 47.4 71.2
95 31.4 26.2 39.4

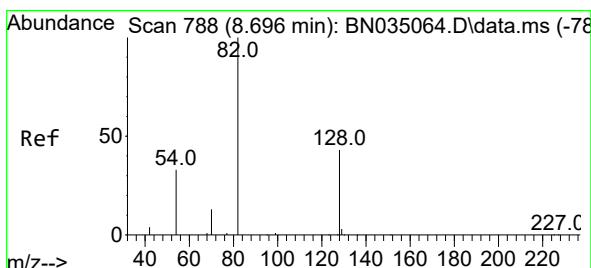
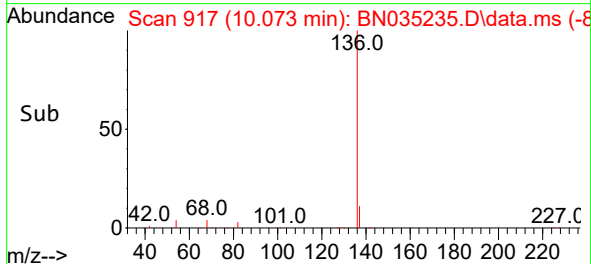
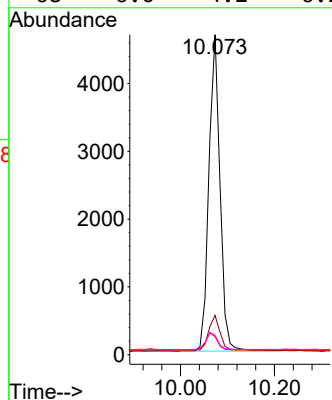
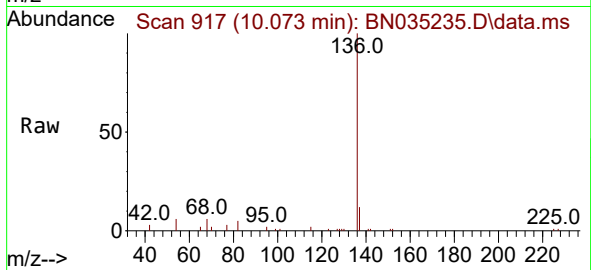




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.073 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

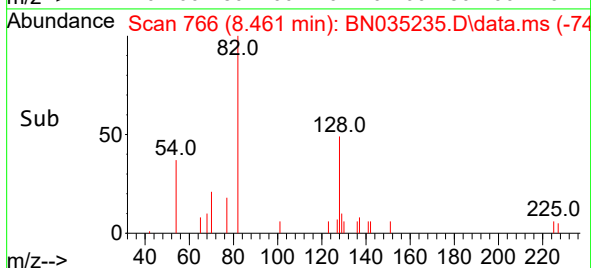
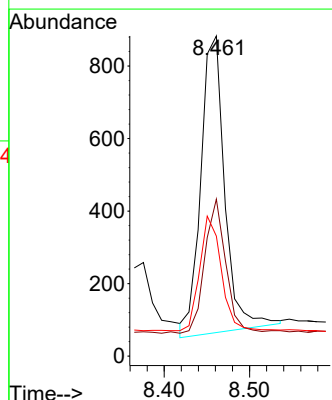
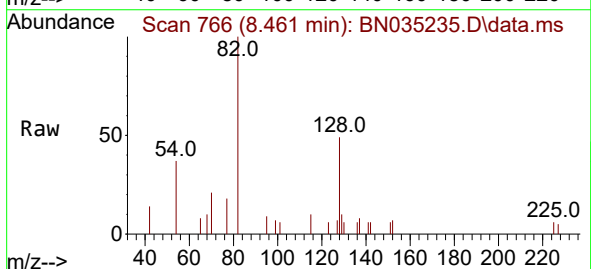
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

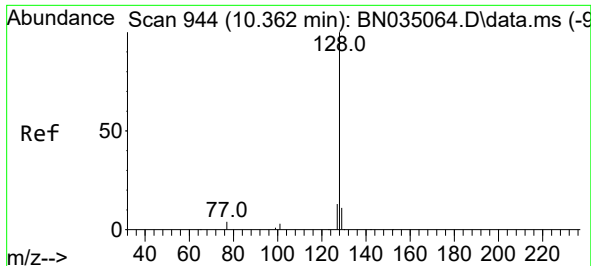
Tgt Ion:	136	Resp:	7674
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	5.6	4.0	6.0
68	6.0	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.240 ng
RT: 8.461 min Scan# 766
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:	82	Resp:	1602
Ion	Ratio	Lower	Upper
82	100		
128	49.0	36.5	54.7
54	37.5	28.7	43.1

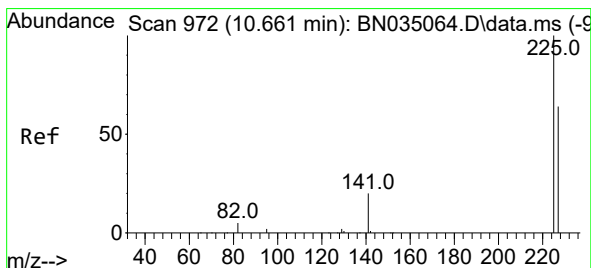
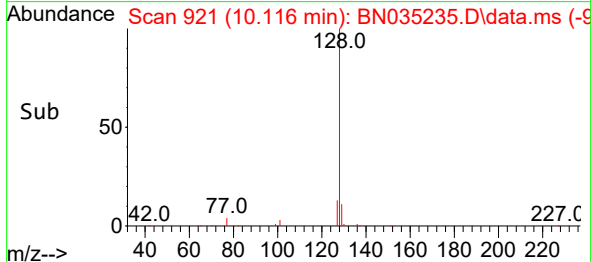
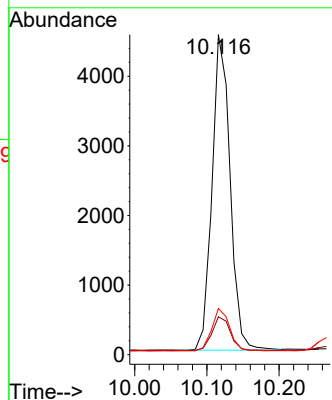
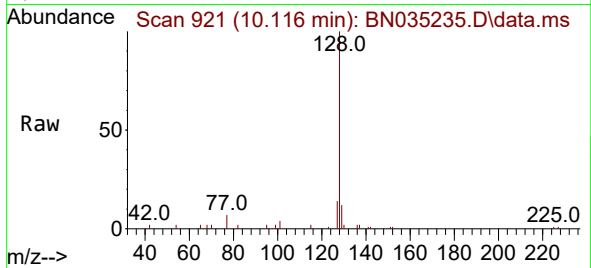




#9
Naphthalene
Concen: 0.392 ng
RT: 10.116 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

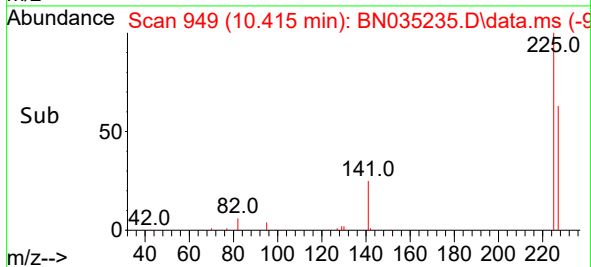
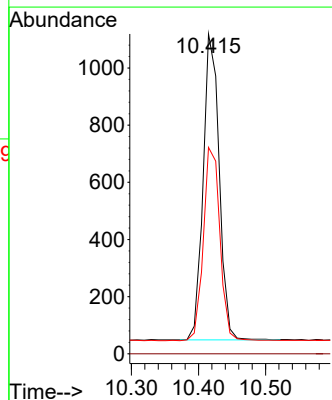
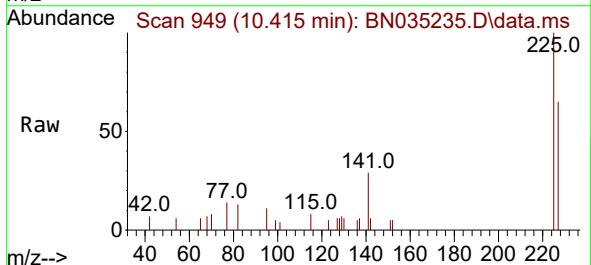
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

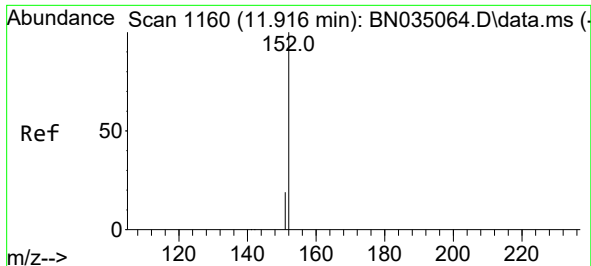
Tgt Ion:128	Resp:	7849
Ion Ratio	Lower	Upper
128	100	
129	11.9	9.6 14.4
127	14.5	11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:225	Resp:	1778
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	65.5	51.5 77.3

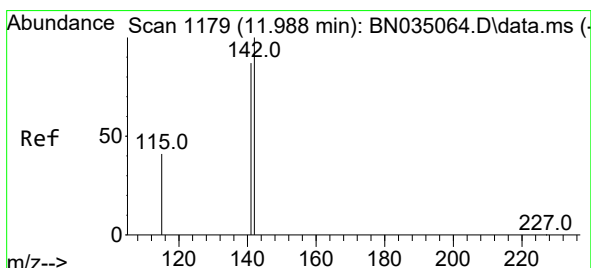
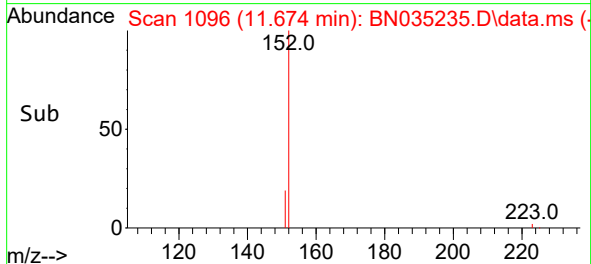
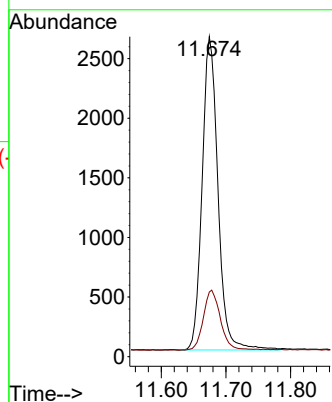
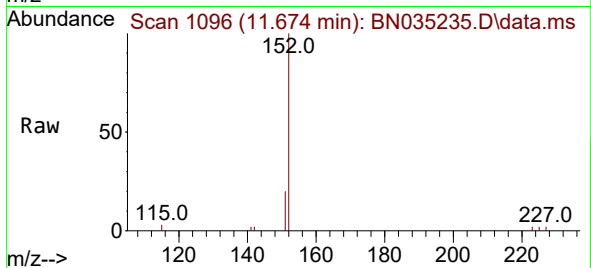




#11
2-Methylnaphthalene-d10
Concen: 0.326 ng
RT: 11.674 min Scan# 1106
Delta R.T. -0.004 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

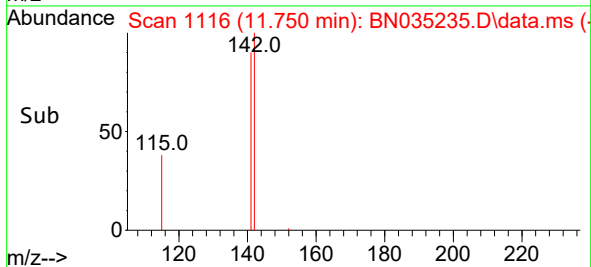
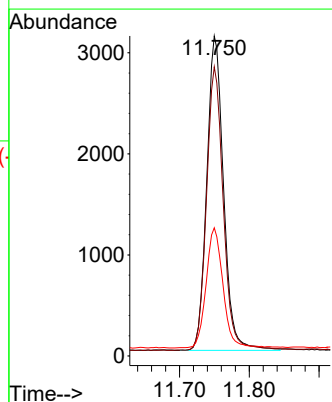
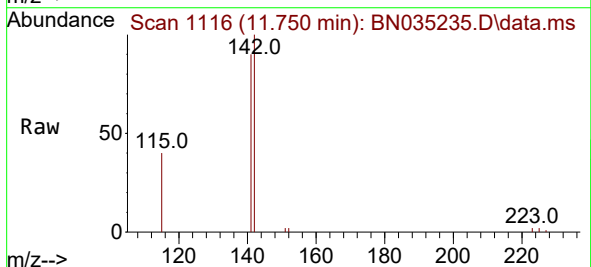
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

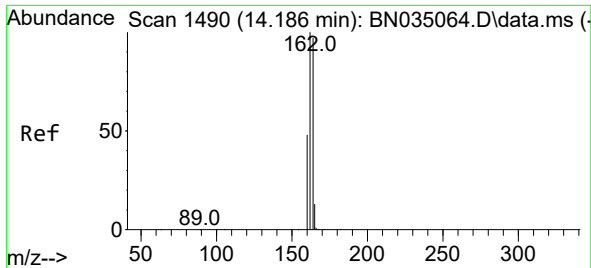
Tgt Ion:152 Resp: 4455
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.750 min Scan# 1116
Delta R.T. -0.004 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:142 Resp: 5199
Ion Ratio Lower Upper
142 100
141 90.4 70.1 105.1
115 40.1 34.4 51.6

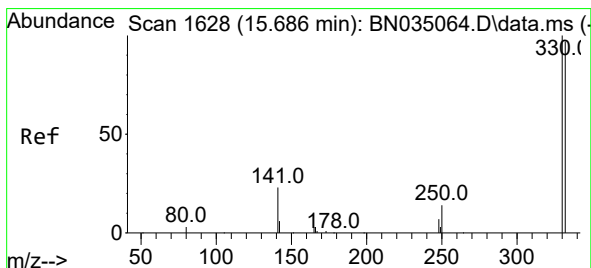
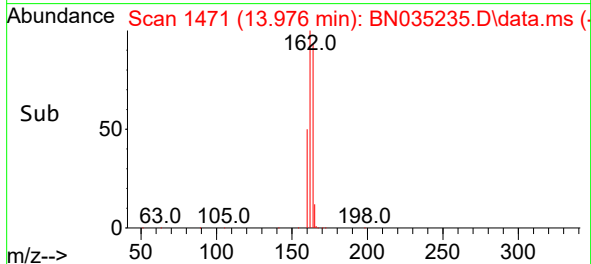
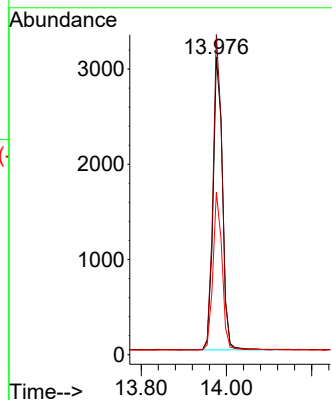
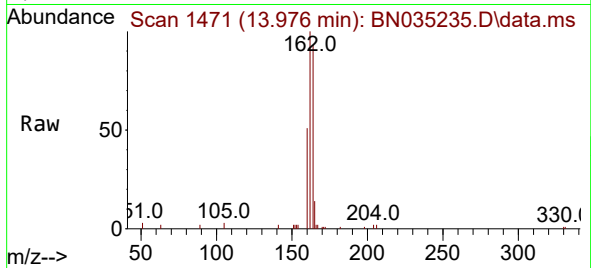




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.976 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

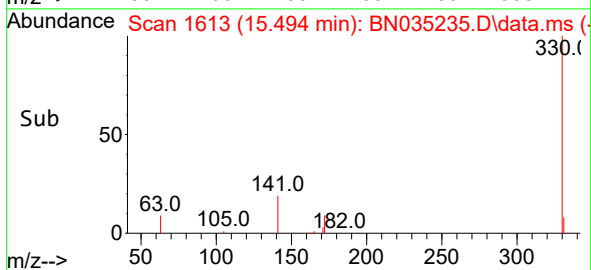
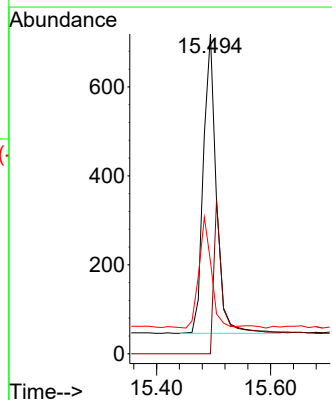
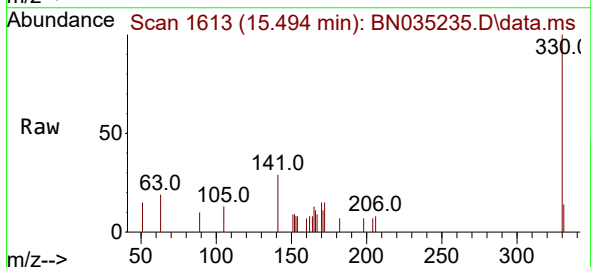
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

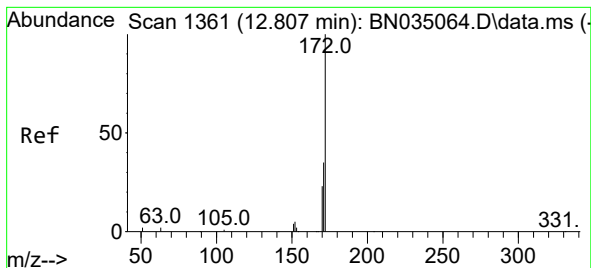
Tgt Ion:164 Resp: 4706
Ion Ratio Lower Upper
164 100
162 107.5 82.2 123.2
160 54.6 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.494 min Scan# 1613
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:330 Resp: 1140
Ion Ratio Lower Upper
330 100
332 0.0 76.9 115.3#
141 34.2 29.6 44.4

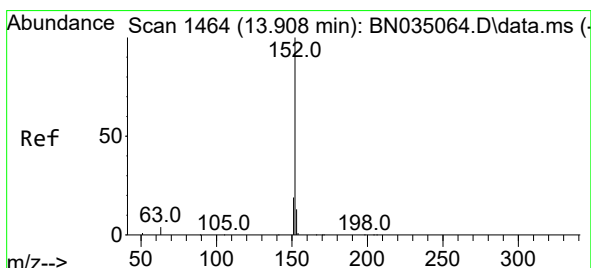
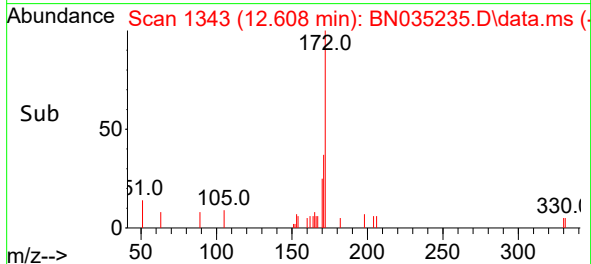
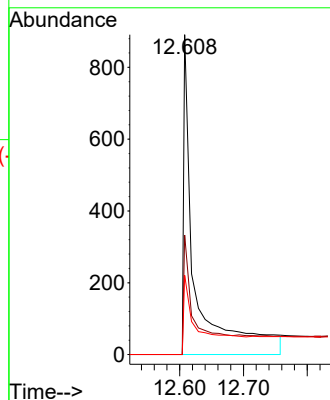
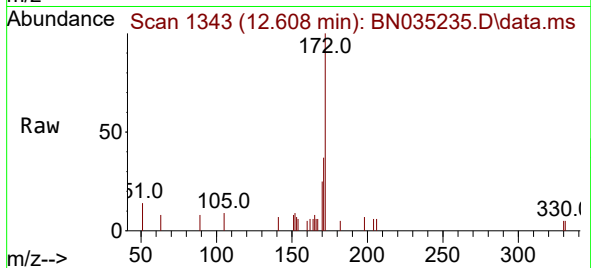




#15
2-Fluorobiphenyl
Concen: 0.063 ng
RT: 12.608 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

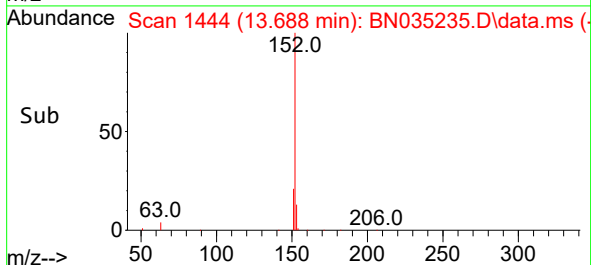
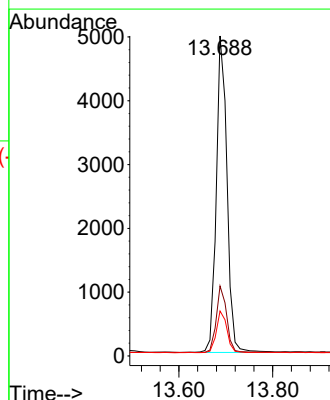
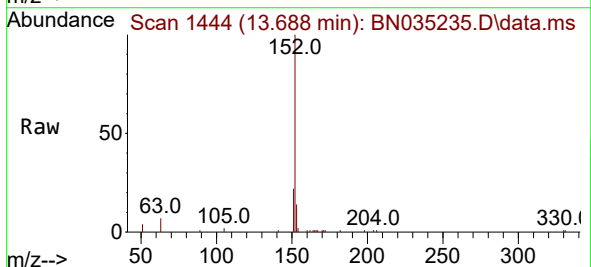
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

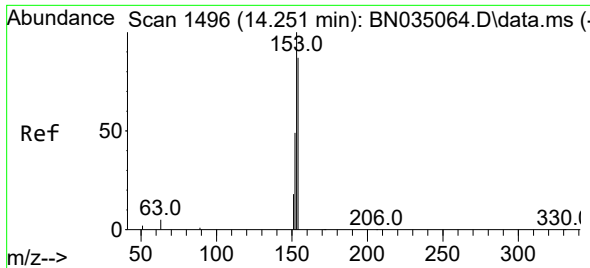
Tgt Ion:172	Resp:	1202
Ion	Ratio	Lower Upper
172	100	
171	37.4	28.2 42.4
170	24.8	19.0 28.6



#16
Acenaphthylene
Concen: 0.392 ng
RT: 13.688 min Scan# 1444
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:152	Resp:	7880
Ion	Ratio	Lower Upper
152	100	
151	20.4	15.8 23.8
153	13.3	10.2 15.4

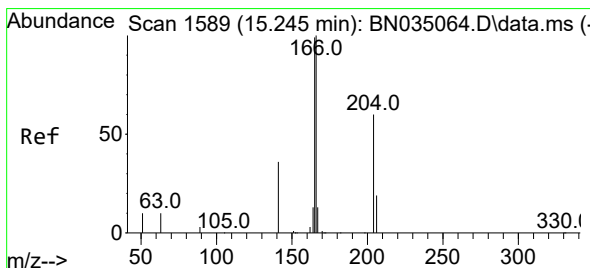
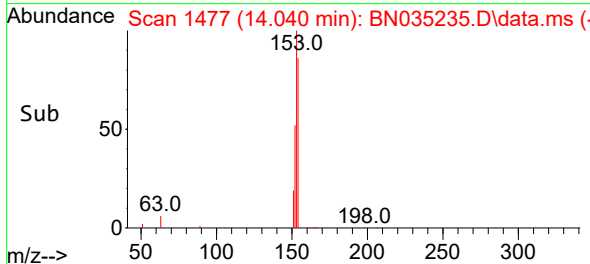
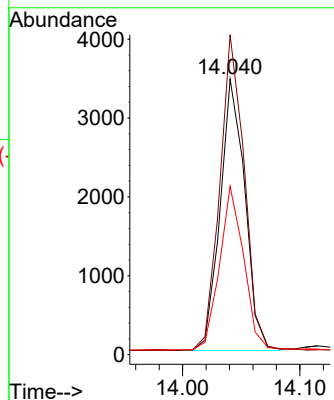
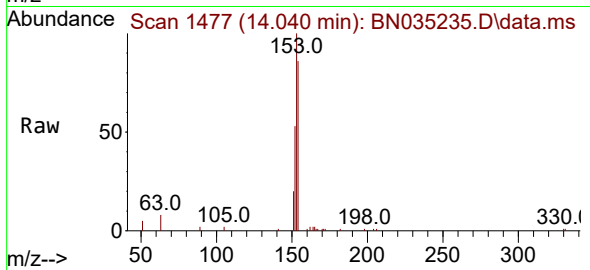




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.040 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

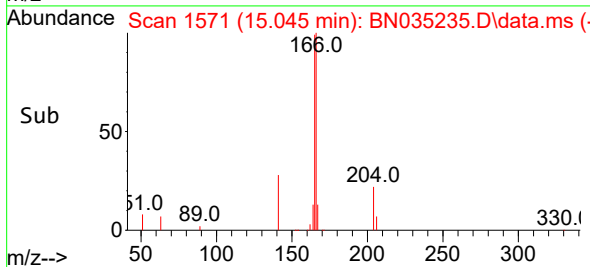
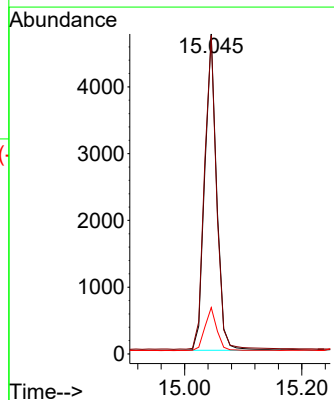
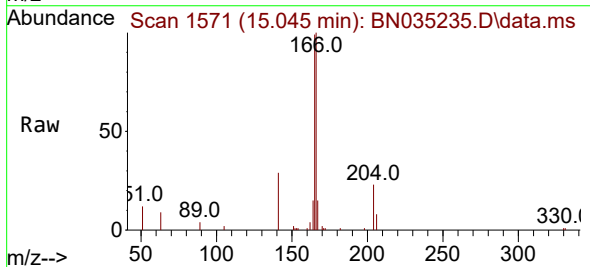
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

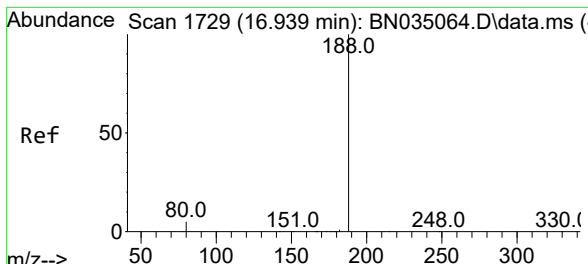
Tgt Ion:154 Resp: 5046
Ion Ratio Lower Upper
154 100
153 115.6 91.6 137.4
152 59.8 45.8 68.6



#18
Fluorene
Concen: 0.346 ng
RT: 15.045 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:166 Resp: 6711
Ion Ratio Lower Upper
166 100
165 100.4 79.1 118.7
167 13.8 10.6 16.0

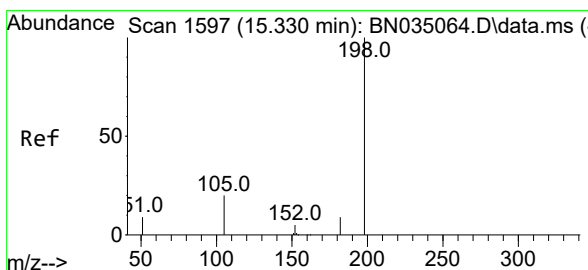
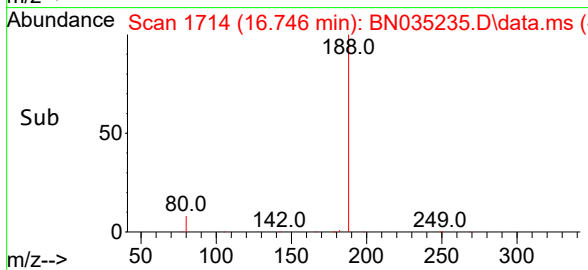
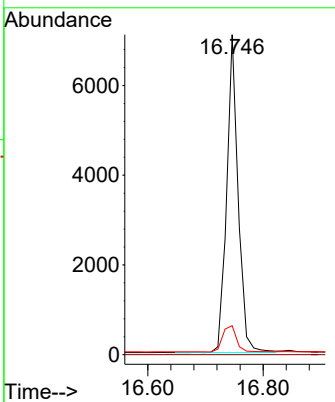
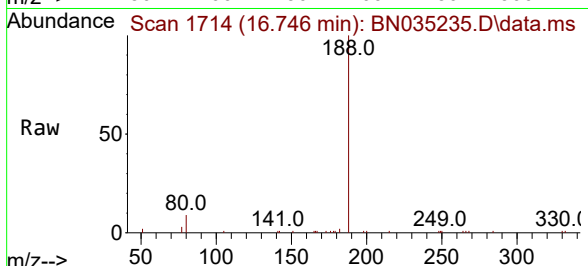




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.746 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN035235.D
 Acq: 21 Nov 2024 23:01

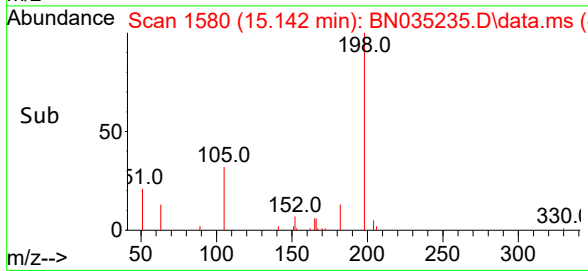
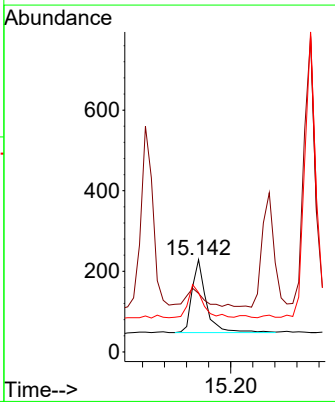
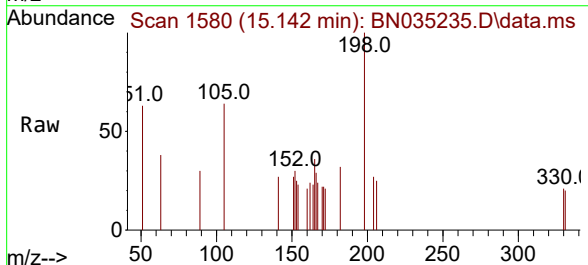
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

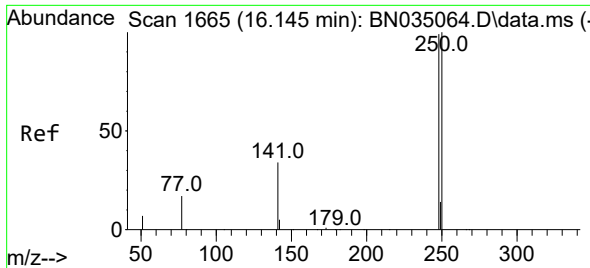
Tgt Ion:	188	Resp:	9785
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.1	4.3	6.5



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.158 ng
 RT: 15.142 min Scan# 1580
 Delta R.T. -0.000 min
 Lab File: BN035235.D
 Acq: 21 Nov 2024 23:01

Tgt Ion:	198	Resp:	322
Ion Ratio	Lower	Upper	
198	100		
51	63.3	29.9	44.9
105	64.2	23.7	35.5

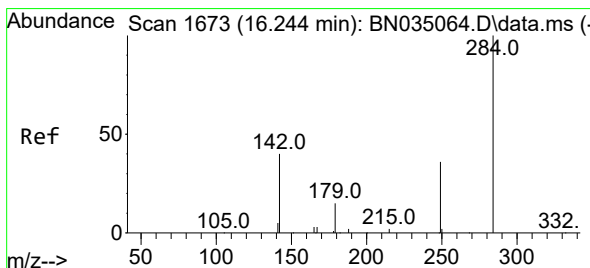
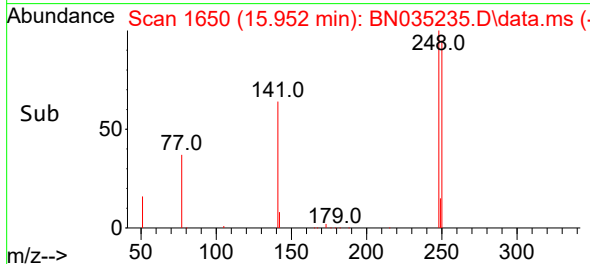
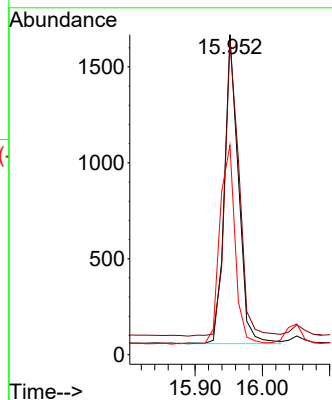
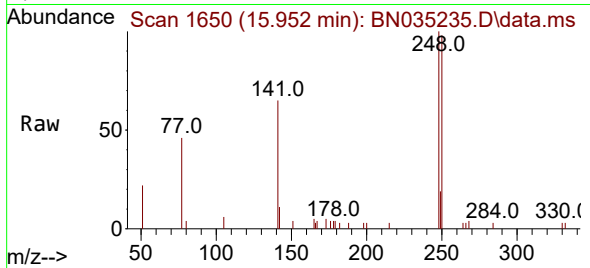




#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 15.952 min Scan# 1650
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

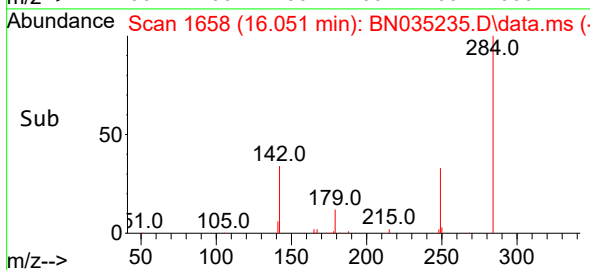
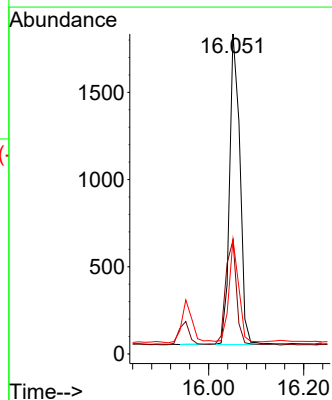
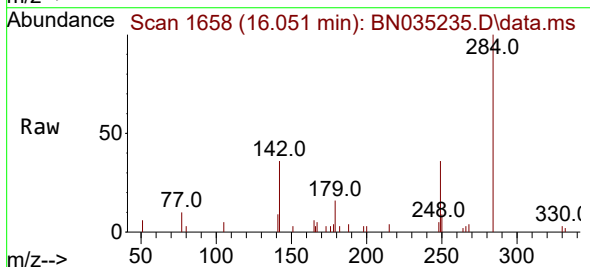
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

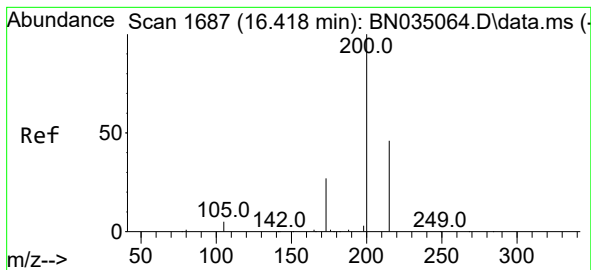
Tgt Ion:248 Resp: 2324
Ion Ratio Lower Upper
248 100
250 97.8 81.2 121.8
141 65.5 29.1 43.7#



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.051 min Scan# 1658
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:284 Resp: 2690
Ion Ratio Lower Upper
284 100
142 35.7 28.2 42.4
249 30.9 26.2 39.2





#23

Atrazine

Concen: 0.225 ng

RT: 16.250 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

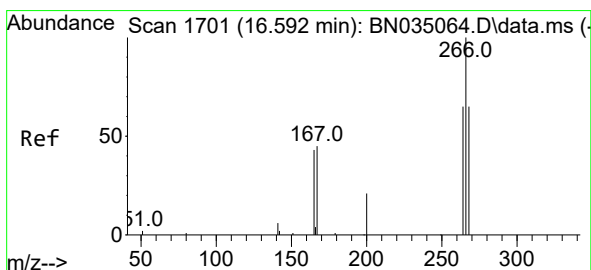
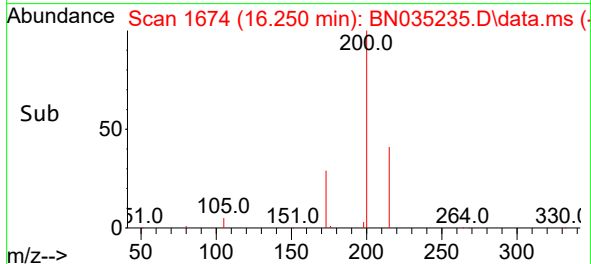
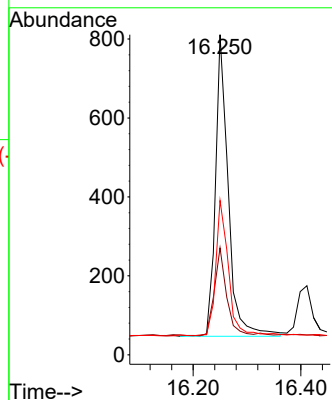
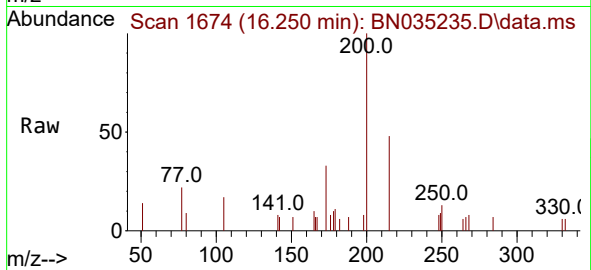
Tgt Ion:200 Resp: 1260

Ion Ratio Lower Upper

200 100

173 33.4 22.6 33.8

215 48.2 37.8 56.6



#24

Pentachlorophenol

Concen: 0.393 ng

RT: 16.411 min Scan# 1687

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

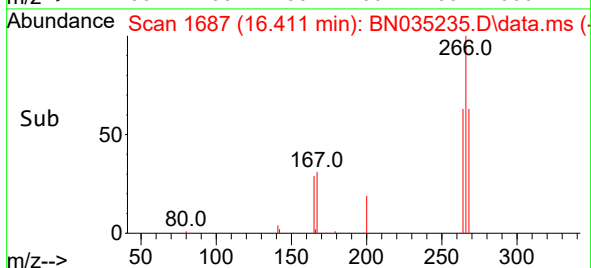
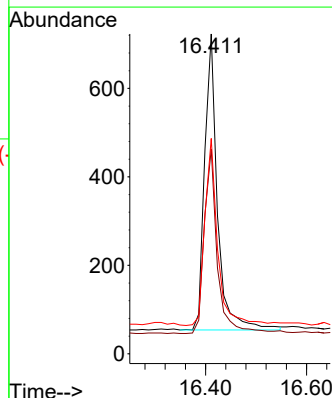
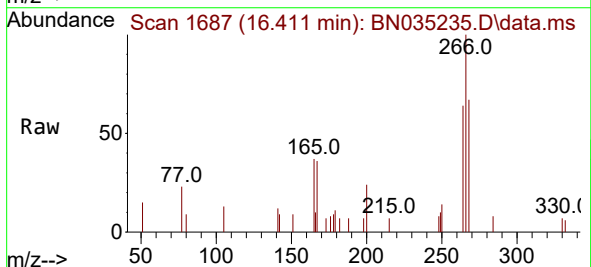
Tgt Ion:266 Resp: 1189

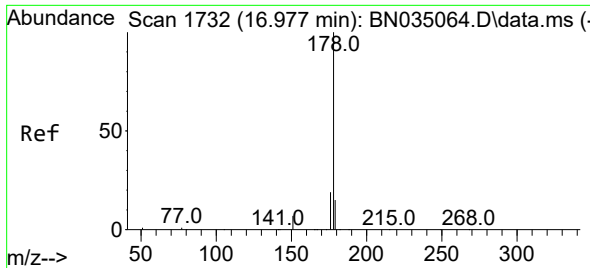
Ion Ratio Lower Upper

266 100

264 63.5 49.4 74.0

268 63.4 52.6 79.0

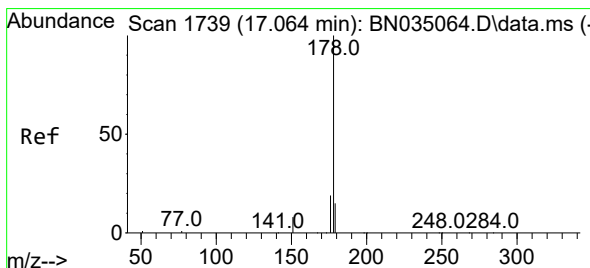
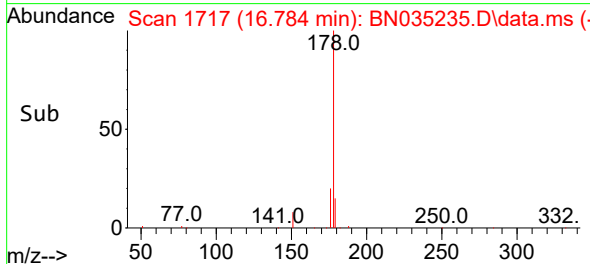
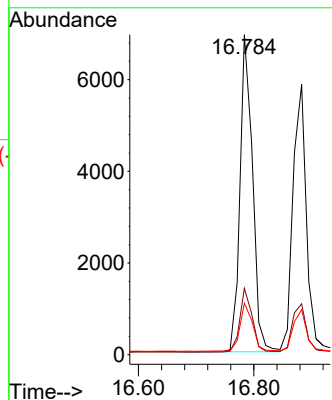
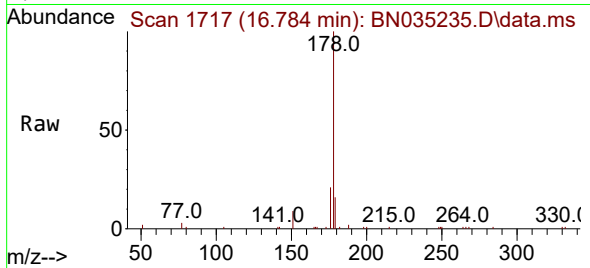




#25
Phenanthrene
Concen: 0.403 ng
RT: 16.784 min Scan# 1725
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

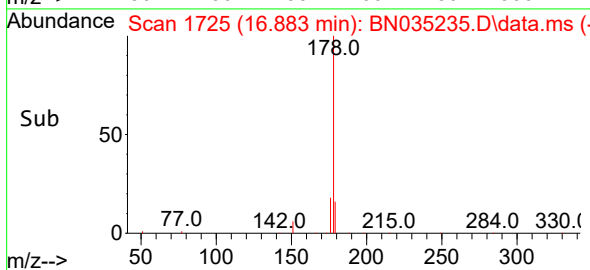
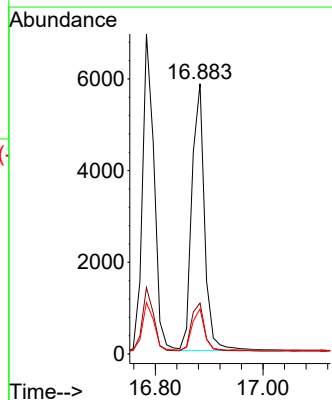
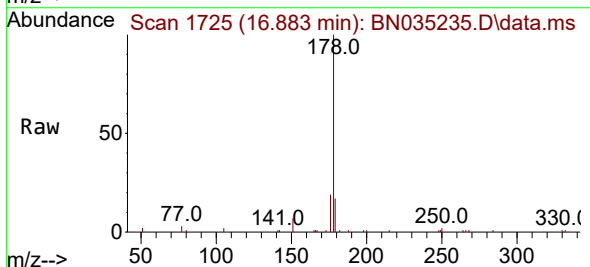
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

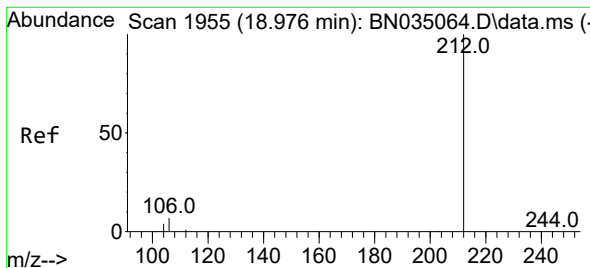
Tgt Ion:178 Resp: 10390
Ion Ratio Lower Upper
178 100
176 19.8 15.2 22.8
179 15.6 12.6 18.8



#26
Anthracene
Concen: 0.403 ng
RT: 16.883 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:178 Resp: 9521
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.2 12.2 18.2

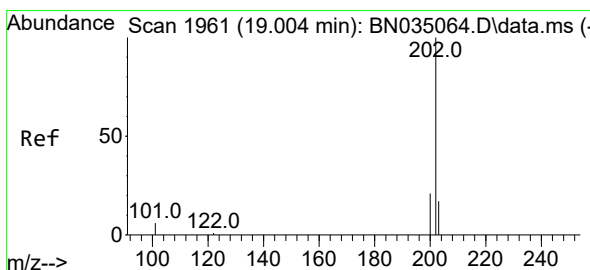
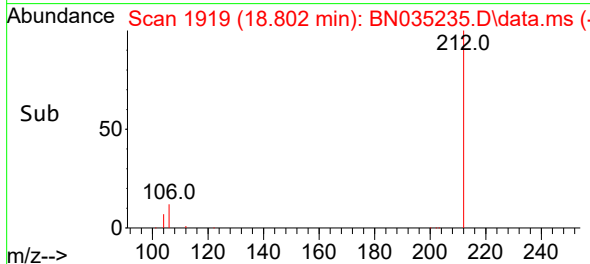
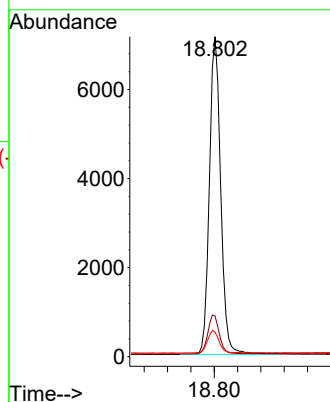
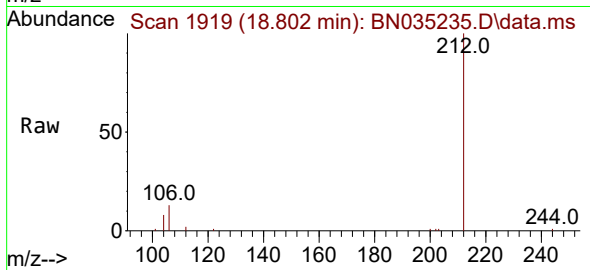




#27
Fluoranthene-d10
Concen: 0.322 ng
RT: 18.802 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

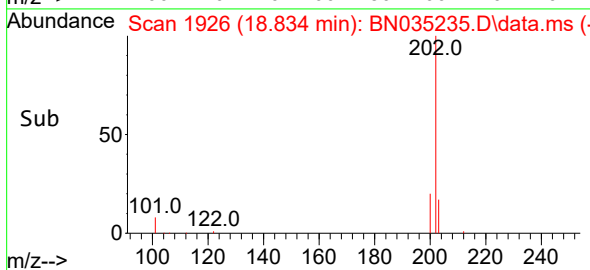
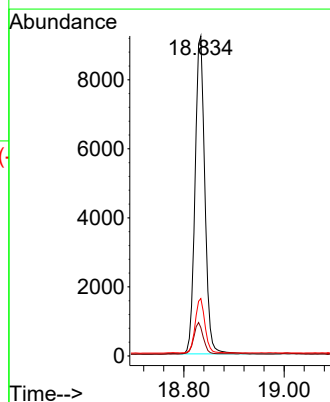
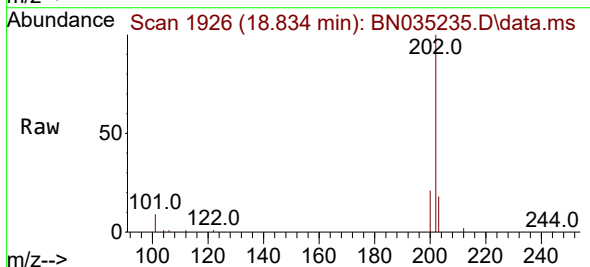
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

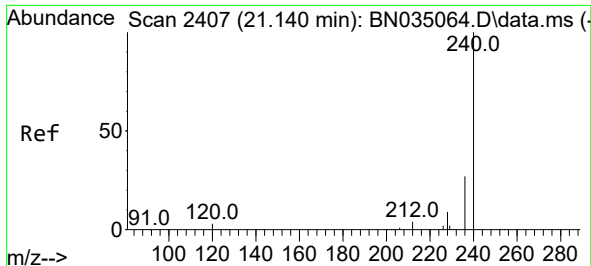
Tgt Ion:212 Resp: 9657
Ion Ratio Lower Upper
212 100
106 12.4 6.0 9.0#
104 7.3 3.5 5.3#



#28
Fluoranthene
Concen: 0.353 ng
RT: 18.834 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:202 Resp: 12485
Ion Ratio Lower Upper
202 100
101 9.9 5.2 7.8#
203 17.0 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

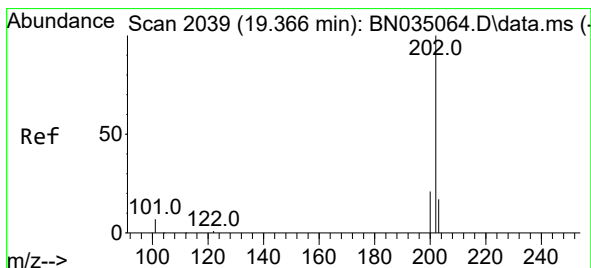
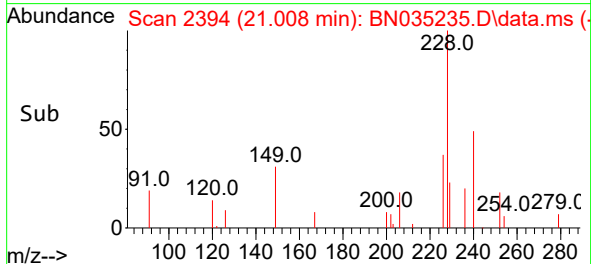
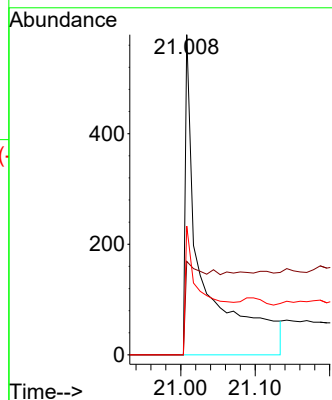
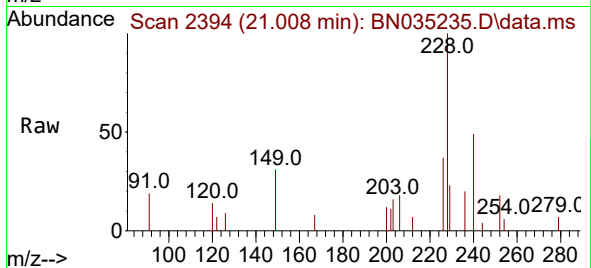
Tgt Ion:240 Resp: 924

Ion Ratio Lower Upper

240 100

120 29.2 3.8 5.6#

236 40.2 22.2 33.2#



#30

Pyrene

Concen: 4.164 ng

RT: 19.201 min Scan# 2005

Delta R.T. -0.005 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

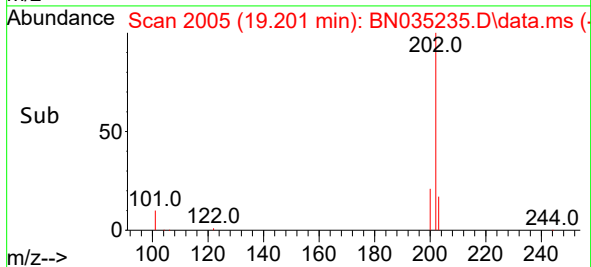
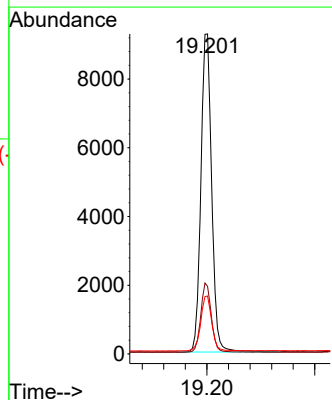
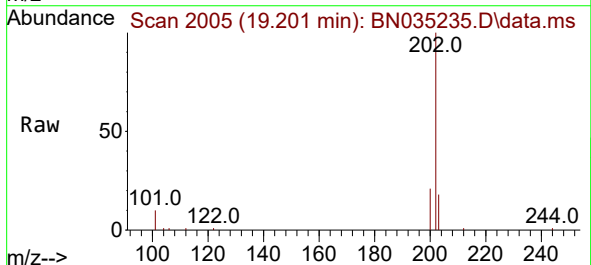
Tgt Ion:202 Resp: 12814

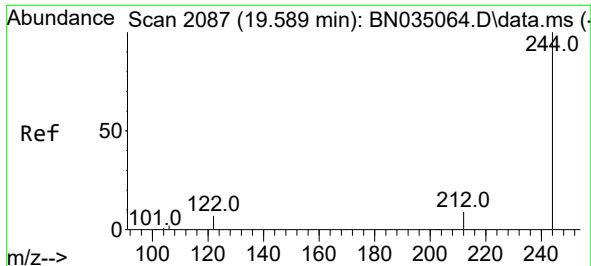
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 17.7 14.2 21.4

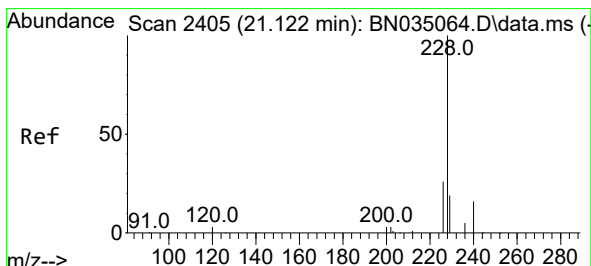
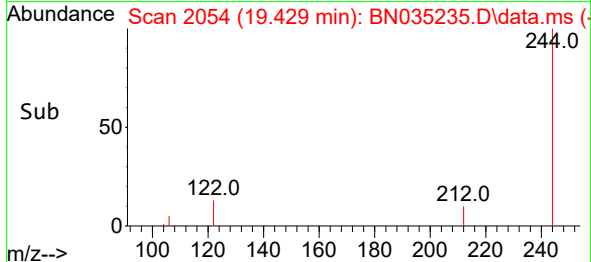
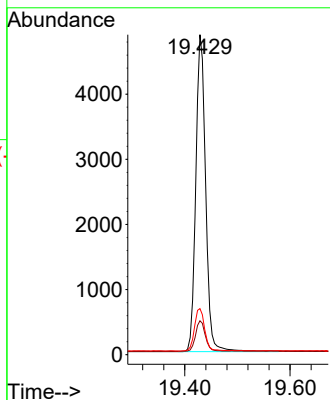
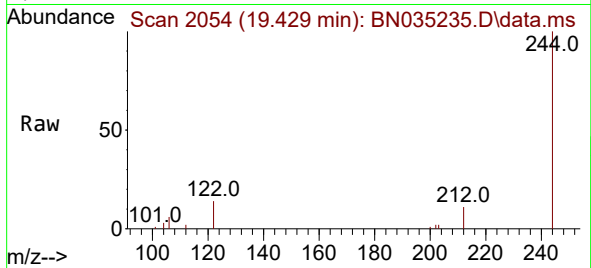




#31
Terphenyl-d14
Concen: 3.268 ng
RT: 19.429 min Scan# 2087
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

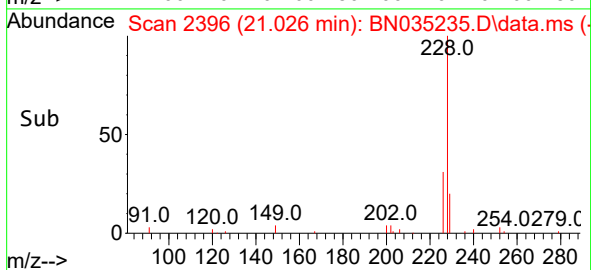
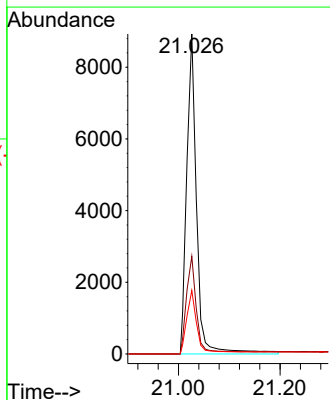
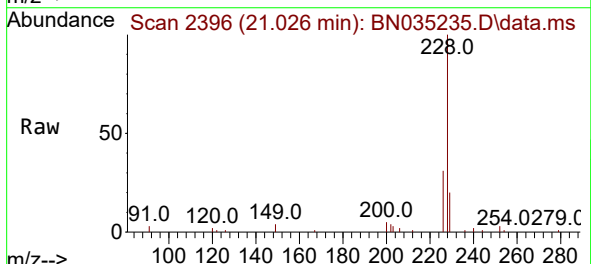
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

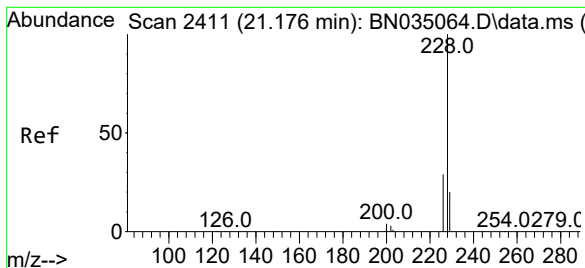
Tgt Ion:244 Resp: 6336
Ion Ratio Lower Upper
244 100
212 10.6 7.6 11.4
122 14.4 6.1 9.1#



#32
Benzo(a)anthracene
Concen: 3.650 ng
RT: 21.026 min Scan# 2396
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:228 Resp: 11745
Ion Ratio Lower Upper
228 100
226 30.5 21.4 32.0
229 19.8 15.7 23.5





#33

Chrysene

Concen: 3.685 ng

RT: 21.026 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

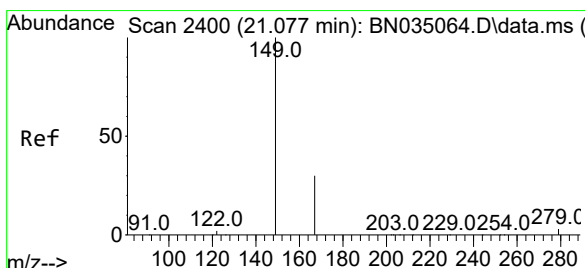
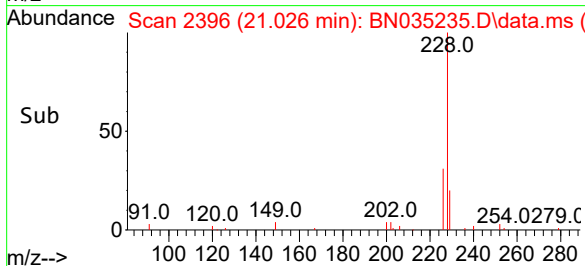
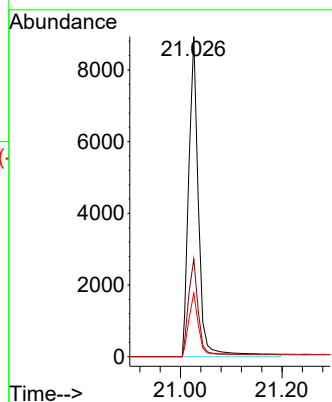
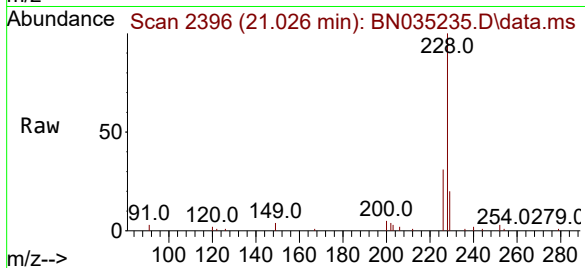
Tgt Ion:228 Resp: 11745

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 19.8 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.616 ng

RT: 21.026 min Scan# 2396

Delta R.T. -0.000 min

Lab File: BN035235.D

Acq: 21 Nov 2024 23:01

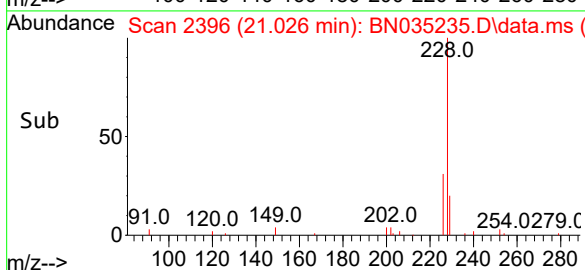
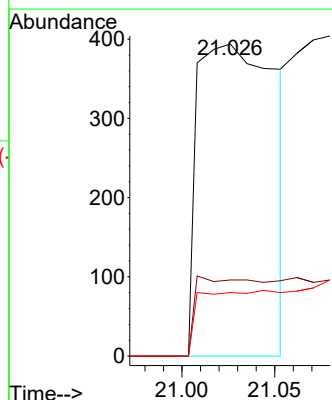
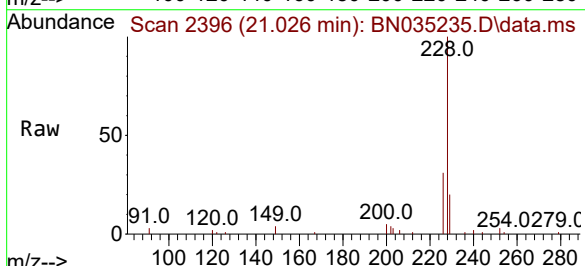
Tgt Ion:149 Resp: 1040

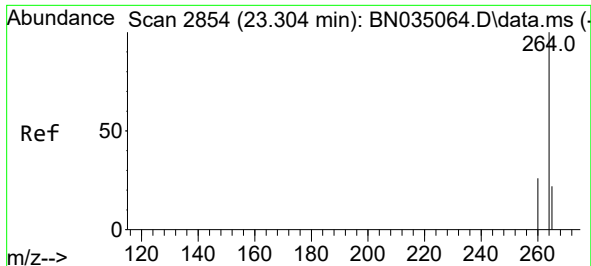
Ion Ratio Lower Upper

149 100

167 20.9 23.2 34.8#

279 0.0 3.2 4.8#

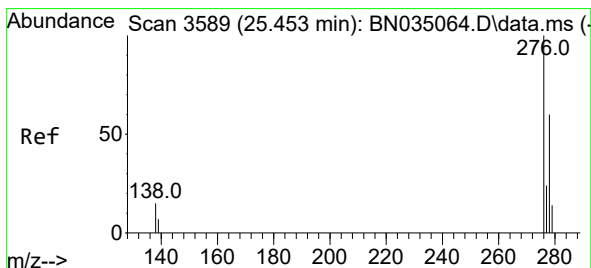
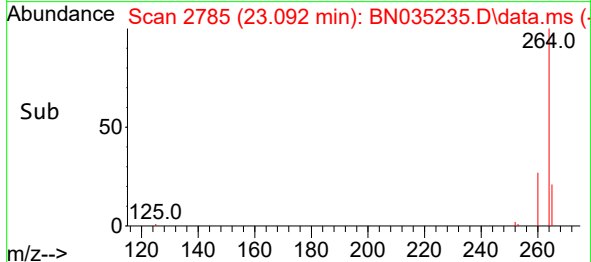
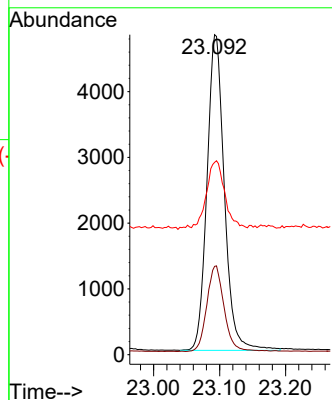
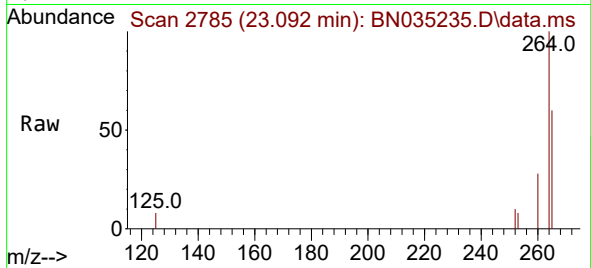




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.092 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

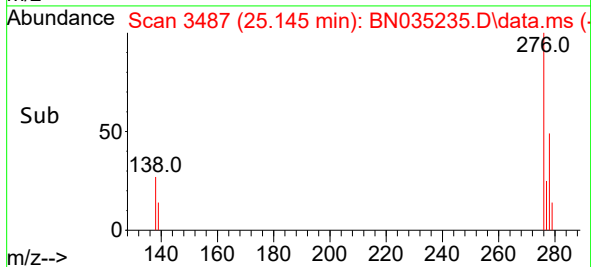
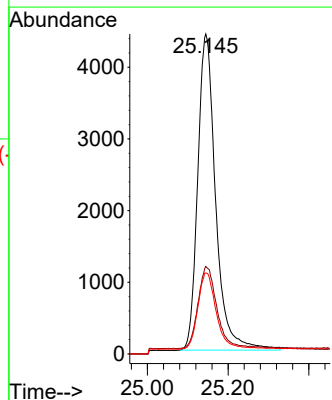
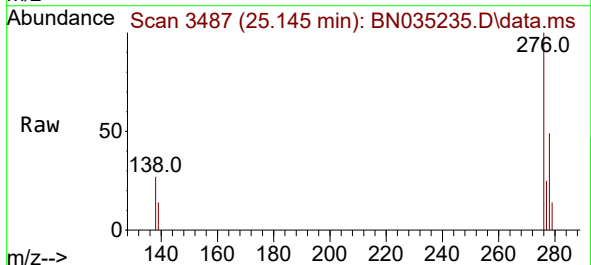
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

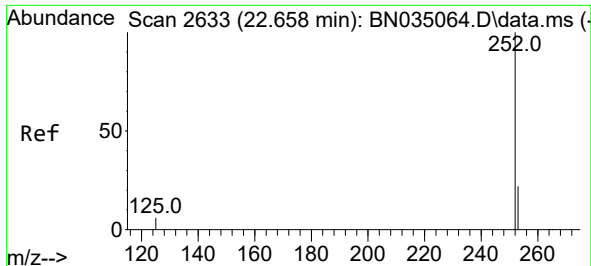
Tgt Ion:264 Resp: 8785
Ion Ratio Lower Upper
264 100
260 27.6 20.9 31.3
265 60.1 35.4 53.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.145 min Scan# 3487
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Tgt Ion:276 Resp: 13630
Ion Ratio Lower Upper
276 100
138 26.1 13.0 19.4#
277 23.9 19.8 29.6

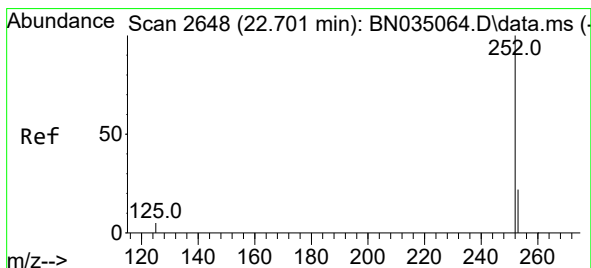
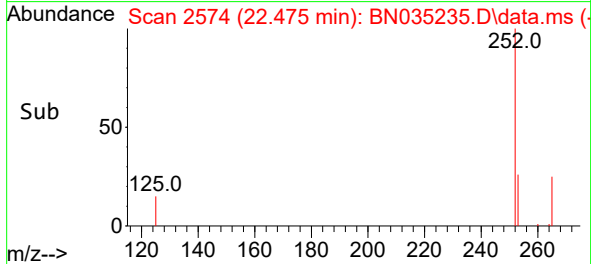
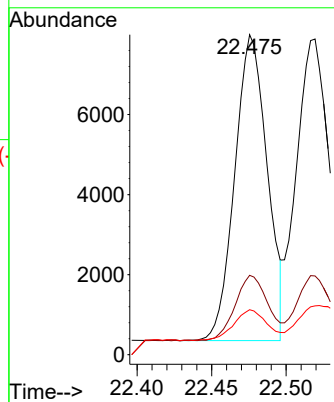
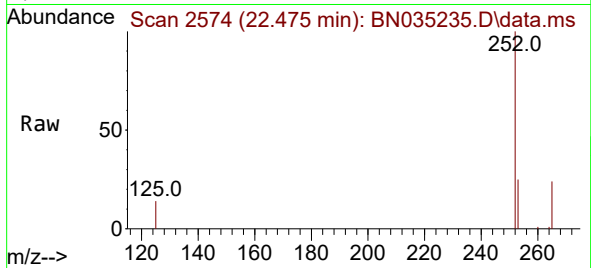




#37
Benzo(b)fluoranthene
Concen: 0.391 ng
RT: 22.475 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

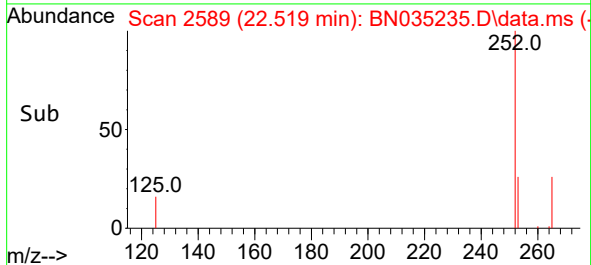
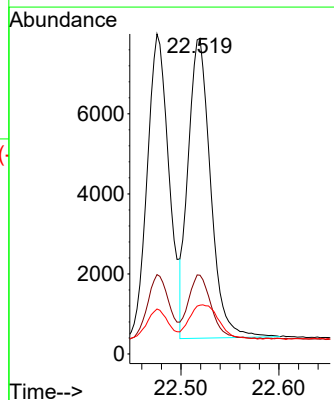
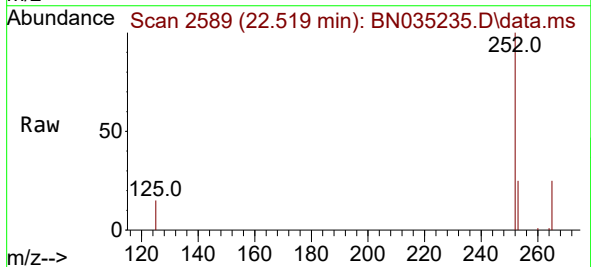
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

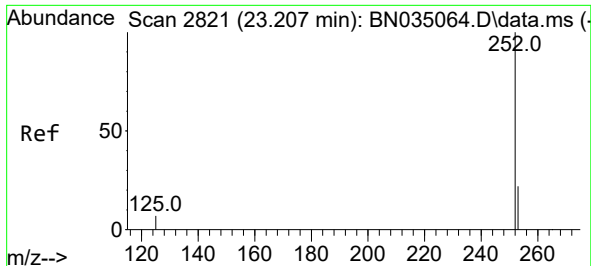
Tgt Ion:252 Resp: 11553
Ion Ratio Lower Upper
252 100
253 24.8 19.3 28.9
125 14.0 6.2 9.2#



#38
Benzo(k)fluoranthene
Concen: 0.403 ng
RT: 22.519 min Scan# 2589
Delta R.T. -0.009 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

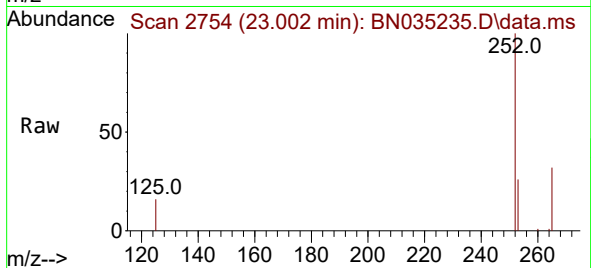
Tgt Ion:252 Resp: 11920
Ion Ratio Lower Upper
252 100
253 25.0 19.5 29.3
125 15.4 6.5 9.7#



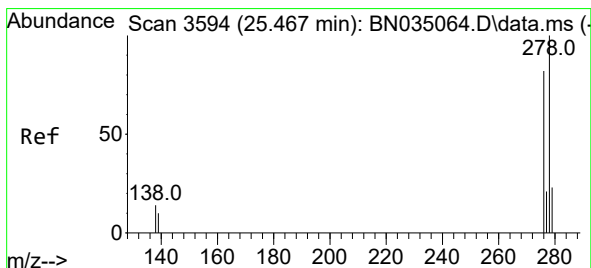
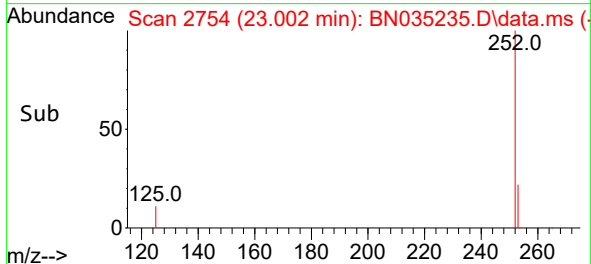
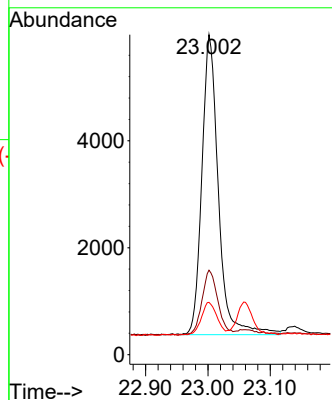


#39
Benzo(a)pyrene
Concen: 0.396 ng
RT: 23.002 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

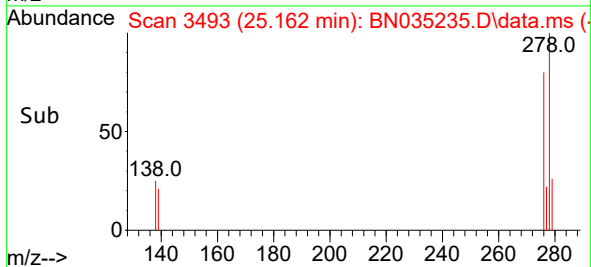
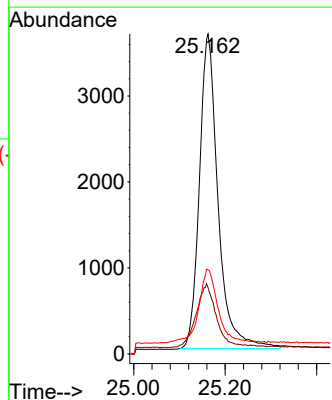
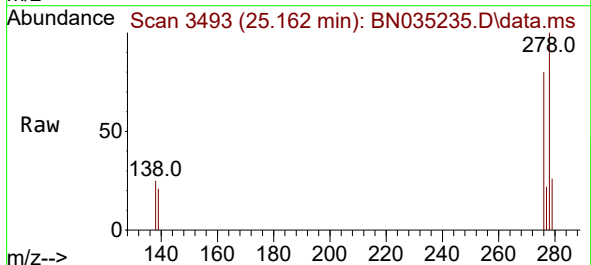


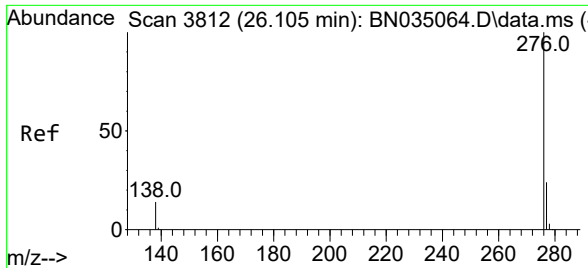
Tgt Ion:252 Resp: 10296
Ion Ratio Lower Upper
252 100
253 26.4 20.1 30.1
125 16.3 7.5 11.3#



#40
Dibenzo(a,h)anthracene
Concen: 0.373 ng
RT: 25.162 min Scan# 3493
Delta R.T. -0.015 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

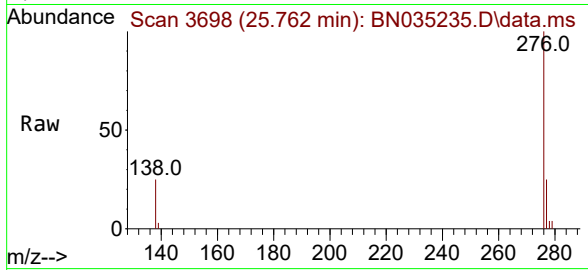
Tgt Ion:278 Resp: 10355
Ion Ratio Lower Upper
278 100
139 20.7 9.3 13.9#
279 26.2 19.7 29.5





#41
Benzo(g,h,i)perylene
Concen: 0.382 ng
RT: 25.762 min Scan# 30
Delta R.T. -0.015 min
Lab File: BN035235.D
Acq: 21 Nov 2024 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:276 Resp: 11294
Ion Ratio Lower Upper
276 100
277 24.5 19.9 29.9
138 24.5 11.6 17.4#

