

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : CTO WE13

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

ORDER ID : Q1347
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1347

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1347-01
Q1347-02
Q1347-03
Q1347-04
Q1347-05
Q1347-06

Client Sample Number

BP-VPB-192-EB-20250207
BP-VPB-192-TB-20250206
BP-VPB-192-GW-710-712
BP-VPB-192-GW-640-642
BP-VPB-192-GW-660-662
BP-VPB-192-GW-680-682

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: 2/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # Q1347

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 02/10/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB166675BS [2-Fluorobiphenyl - 113%] and BP-VPB-192-GW-710-712 [2-Fluorobiphenyl - 109%, Terphenyl-d14 - 143%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

Sample # BP-VPB-192-GW-710-712, BP-VPB-192-GW-660-662 was received with limited volume.



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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

CHEMTECH PROJECT NUMBER: Q1347

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 met the requirements .			
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 PB166675BS [2- Fluorobiphenyl - 113%] and BP-VPB-192-GW-710-712 [2-Fluorobiphenyl - 109%, Terphenyl-d14 - 143%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			

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

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

(CONTINUED)

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

ADDITIONAL COMMENTS:

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

Sample # BP-VPB-192-GW-710-712, BP-VPB-192-GW-660-662 was received with limited volume.

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

The not QT review data is reported in the Miscellaneous.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1347

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: 02/21/2025

LAB CHRONICLE

OrderID: Q1347	OrderDate: 2/10/2025 3:45:00 PM
Client: Tetra Tech NUS, Inc.	Project: CTO WE13
Contact: Ernie Wu	Location: N41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1347-01	BP-VPB-192-EB-2025 0207	Water			02/07/25			02/10/25
			SVOC-SIMGroup1	8270-Modified		02/11/25	02/12/25	
Q1347-03	BP-VPB-192-GW-710- 712	Water			02/10/25			02/10/25
			SVOC-SIMGroup1	8270-Modified		02/11/25	02/12/25	
Q1347-05	BP-VPB-192-GW-660- 662	Water			02/06/25			02/10/25
			SVOC-SIMGroup1	8270-Modified		02/11/25	02/12/25	



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 Fax : 908 789 8922

Hit Summary Sheet
 SW-846

SDG No.: Q1347
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	BP-VPB-192-GW-710-712							
Q1347-03	BP-VPB-192-GW-710-71 WATER	1,4-Dioxane	0.890		0.13	0.37	0.37	ug/L
		Total Svoc :			0.89			
		Total Concentration:			0.89			
Client ID :	BP-VPB-192-GW-660-662							
Q1347-05	BP-VPB-192-GW-660-66 WATER	1,4-Dioxane	1.700	J	0.68	2	2	ug/L
		Total Svoc :			1.70			
		Total Concentration:			1.70			

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QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1347

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166675BL	PB166675BL	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.44	111		58	132
PB166675BS	PB166675BS	2-Methylnaphthalene-d10	0.4	0.44	109		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.45	113	*	53	106
		Terphenyl-d14	0.4	0.46	114		58	132
PB166675BSD	PB166675BSD	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
Q1347-01	BP-VPB-192-EB-20250207	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q1347-03	BP-VPB-192-GW-710-712	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.44	109	*	53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
Q1347-05	BP-VPB-192-GW-660-662	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.30	74		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.36	90		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1347

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166675BSD	1,4-Dioxane	0.4	0.30	ug/L	75	10			70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1347

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036456.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166675BS	1,4-Dioxane	0.4	0.33	ug/L	83				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166675BL

Lab Name: CHEMTECH Contract: TETRO6
 Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG NO.: Q1347
 Lab File ID: BN036442.D Lab Sample ID: PB166675BL
 Instrument ID: BNA_N Date Extracted: 02/11/2025
 Matrix: (soil/water) Water Date Analyzed: 02/12/2025
 Level: (low/med) LOW Time Analyzed: 16:24

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166675BS	PB166675BS	BN036456.D	02/13/2025
BP-VPB-192-EB-20250207	Q1347-01	BN036444.D	02/12/2025
BP-VPB-192-GW-710-712	Q1347-03	BN036445.D	02/12/2025
BP-VPB-192-GW-660-662	Q1347-05	BN036446.D	02/12/2025
PB166675BSD	PB166675BSD	BN036455.D	02/13/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM SAS No.: Q1347 SDG NO.: Q1347
Lab File ID: BN036408.D DFTPP Injection Date: 02/10/2025
Instrument ID: BNA_N DFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.4
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	7.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036409.D	02/10/2025	12:25
SSTDICC0.2	SSTDICC0.2	BN036410.D	02/10/2025	13:01
SSTDICCC0.4	SSTDICCC0.4	BN036411.D	02/10/2025	13:36
SSTDICC0.8	SSTDICC0.8	BN036412.D	02/10/2025	14:12
SSTDICC1.6	SSTDICC1.6	BN036413.D	02/10/2025	14:48
SSTDICC3.2	SSTDICC3.2	BN036414.D	02/10/2025	15:24
SSTDICC5.0	SSTDICC5.0	BN036415.D	02/10/2025	16:00



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM SAS No.: Q1347 SDG NO.: Q1347
Lab File ID: BN036440.D DFTPP Injection Date: 02/12/2025
Instrument ID: BNA_N DFTPP Injection Time: 15:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	52.2
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	48.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	25
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.2) 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	BN036441.D	02/12/2025	15:48
PB166675BL	PB166675BL	BN036442.D	02/12/2025	16:24
BP-VPB-192-EB-20250207	Q1347-01	BN036444.D	02/12/2025	17:36
BP-VPB-192-GW-710-712	Q1347-03	BN036445.D	02/12/2025	18:12
BP-VPB-192-GW-660-662	Q1347-05	BN036446.D	02/12/2025	18:48
PB166675BSD	PB166675BSD	BN036455.D	02/13/2025	00:11
PB166675BS	PB166675BS	BN036456.D	02/13/2025	00:47
SSTDCCC0.4EC	SSTDCCC0.4	BN036457.D	02/13/2025	01:23



8B
 SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG NO.: Q1347
 EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/12/2025
 Lab File ID: BN036441.D Time Analyzed: 15:48
 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	2210	7.753	5455	10.54	3758	14.39
UPPER LIMIT	4420	8.253	10910	11.041	7516	14.887
LOWER LIMIT	1105	7.253	2727.5	10.041	1879	13.887
EPA SAMPLE NO.						
01 PB166675BL	2366	7.75	5102	10.56	2942	14.40
02 PB166675BSD	2803	7.75	6953	10.54	4239	14.39
03 BP-VPB-192-EB-20250207	1949	7.75	4506	10.54	2905	14.39
04 PB166675BS	2556	7.75	6260	10.54	3794	14.39
05 BP-VPB-192-GW-710-712	2535	7.75	6461	10.54	3888	14.39
06 BP-VPB-192-GW-660-662	2854	7.75	7661	10.54	4758	14.39

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.: Q1347 SAS No.: Q1347 SDG NO.: Q1347
 EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/12/2025
 Lab File ID: BN036441.D Time Analyzed: 15:48
 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	8093	17.136	7173	21.322	7217	23.589
UPPER LIMIT	16186	17.636	14346	21.822	14434	24.089
LOWER LIMIT	4046.5	16.636	3586.5	20.822	3608.5	23.089
EPA SAMPLE NO.						
01 PB166675BL	6604	17.15	5195	21.33	4640	23.60
02 PB166675BSD	9433	17.14	6681	21.32	5828	23.59
03 BP-VPB-192-EB-20250207	6814	17.14	6000	21.32	6113	23.59
04 PB166675BS	8432	17.14	5969	21.32	5192	23.59
05 BP-VPB-192-GW-710-712	8786	17.12	7596	21.32	6347	23.59
06 BP-VPB-192-GW-660-662	10555	17.14	9596	21.32	8144	23.59

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

- 1
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/07/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-EB-20250207	SDG No.:	Q1347
Lab Sample ID:	Q1347-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036444.D	1	02/11/25 11:05	02/12/25 17:36	PB166675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24	U	0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1950		7.753			
1146-65-2	Naphthalene-d8	4510		10.541			
15067-26-2	Acenaphthene-d10	2910		14.387			
1517-22-2	Phenanthrene-d10	6810		17.136			
1719-03-5	Chrysene-d12	6000		21.321			
1520-96-3	Perylene-d12	6110		23.589			

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\BN021225\
 Data File : BN036444.D
 Acq On : 12 Feb 2025 17:36
 Operator : RC/JU
 Sample : Q1347-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250207

Quant Time: Feb 12 23:15:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

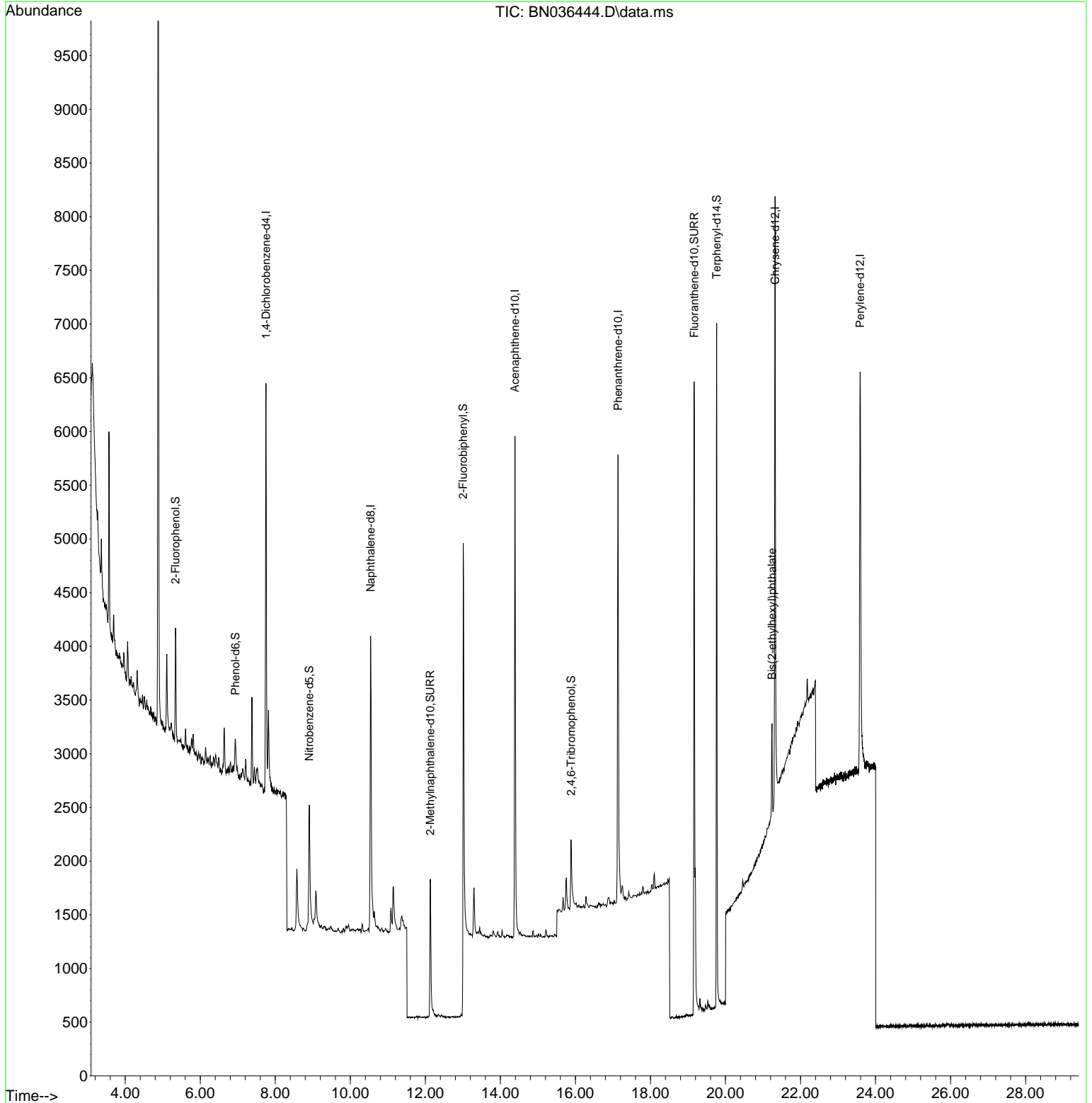
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	1949	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	4506	0.400	ng	0.00	
13) Acenaphthene-d10	14.387	164	2905	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	6814	0.400	ng	0.00	
29) Chrysene-d12	21.321	240	6000	0.400	ng	0.00	
35) Perylene-d12	23.589	264	6113	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	718	0.156	ng	0.00	
5) Phenol-d6	6.937	99	458	0.085	ng	0.00	
8) Nitrobenzene-d5	8.907	82	1389	0.312	ng	0.00	
11) 2-Methylnaphthalene-d10	12.131	152	2290	0.331	ng	-0.01	
14) 2,4,6-Tribromophenol	15.882	330	457	0.317	ng	0.00	
15) 2-Fluorobiphenyl	13.008	172	4209	0.385	ng	-0.01	
27) Fluoranthene-d10	19.164	212	7441	0.393	ng	0.00	
31) Terphenyl-d14	19.763	244	6379	0.498	ng	0.00	
Target Compounds							
34) Bis(2-ethylhexyl)phtha...	21.241	149	944	0.077	ng		97

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

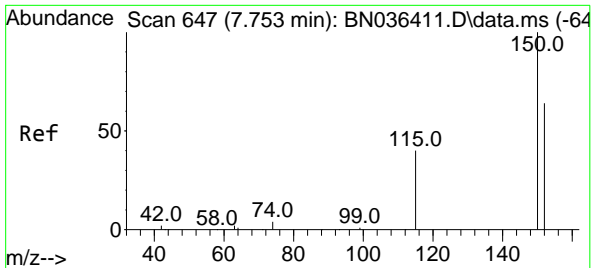
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036444.D
 Acq On : 12 Feb 2025 17:36
 Operator : RC/JU
 Sample : Q1347-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 BP-VPB-192-EB-20250207

Quant Time: Feb 12 23:15:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

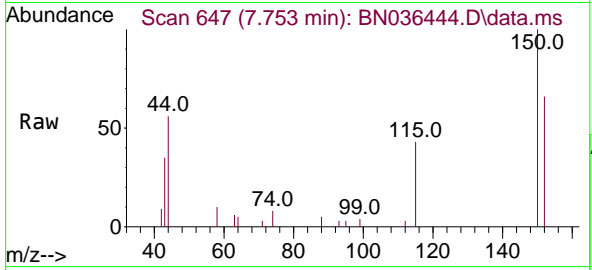


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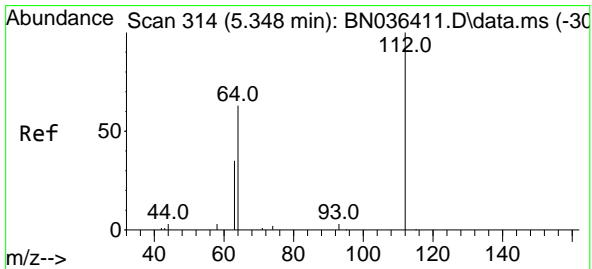
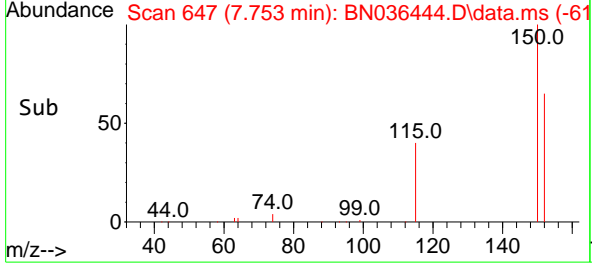
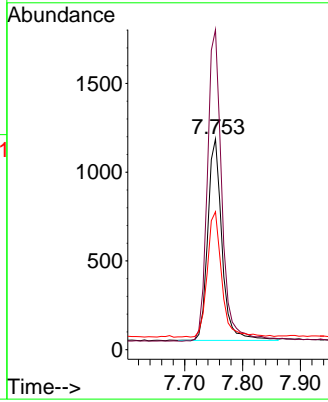
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250207



Tgt Ion:152 Resp: 1949

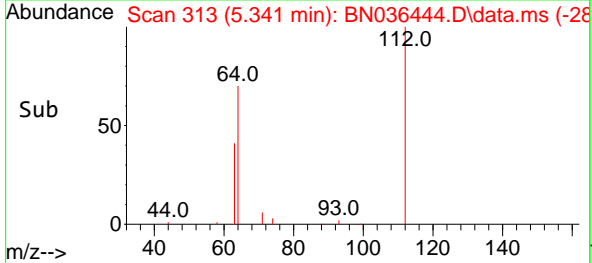
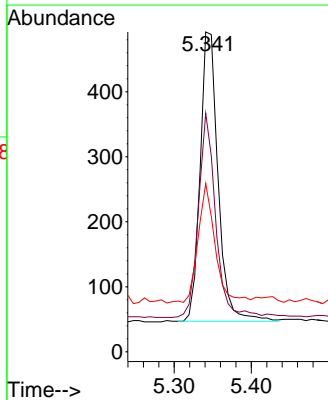
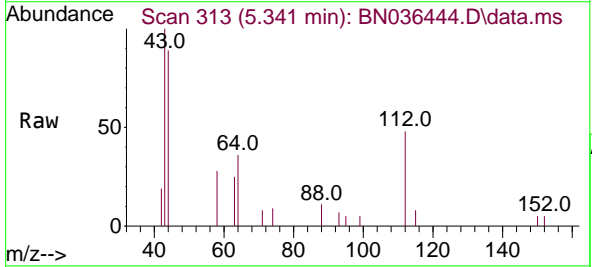
Ion	Ratio	Lower	Upper
152	100		
150	151.9	123.7	185.5
115	65.5	52.5	78.7

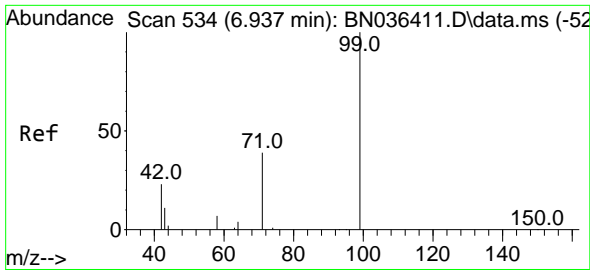


#4
 2-Fluorophenol
 Concen: 0.156 ng
 RT: 5.341 min Scan# 313
 Delta R.T. -0.007 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Tgt Ion:112 Resp: 718

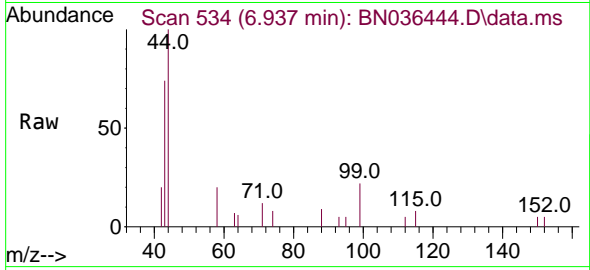
Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.4	80.0
63	37.9	30.3	45.5





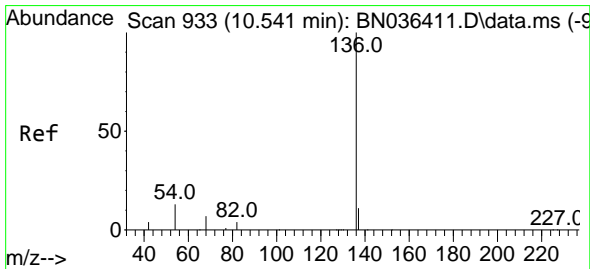
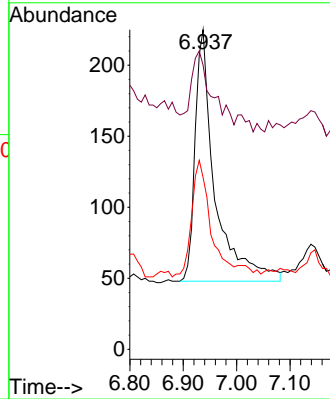
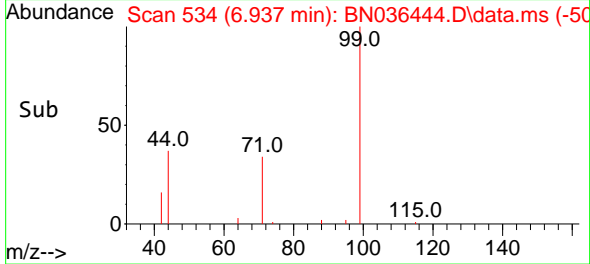
#5
 Phenol-d6
 Concen: 0.085 ng
 RT: 6.937 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250207

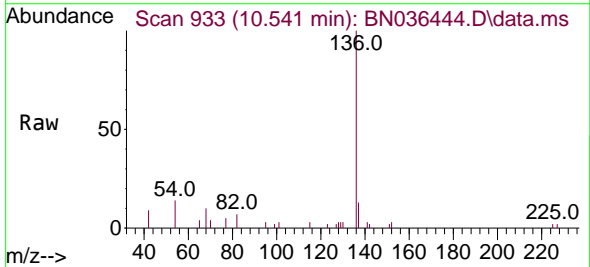


Tgt Ion: 99 Resp: 458

Ion	Ratio	Lower	Upper
99	100		
42	28.6	21.7	32.5
71	43.7	32.6	49.0

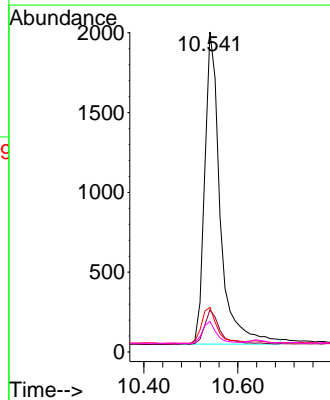
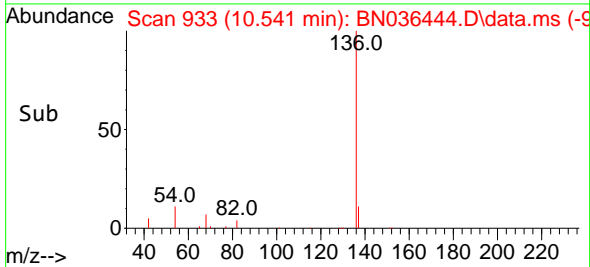


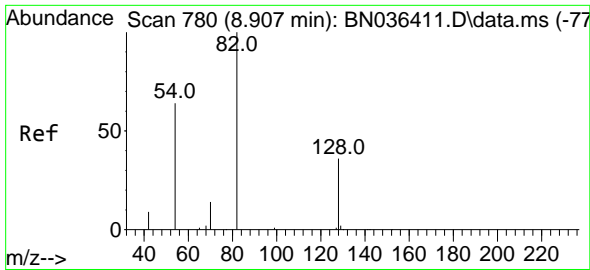
#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 933
 Delta R.T. -0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36



Tgt Ion: 136 Resp: 4506

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.1	15.1
54	13.9	11.8	17.6
68	9.6	7.2	10.8



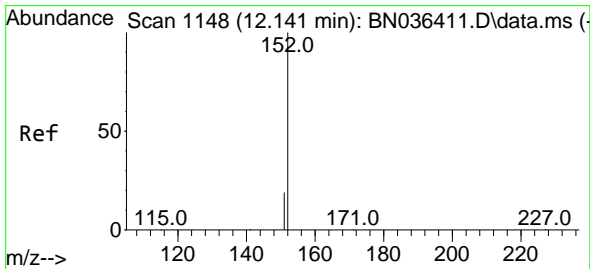
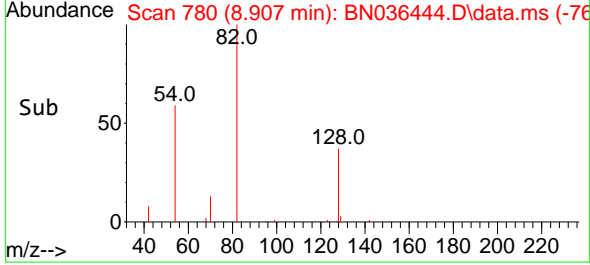
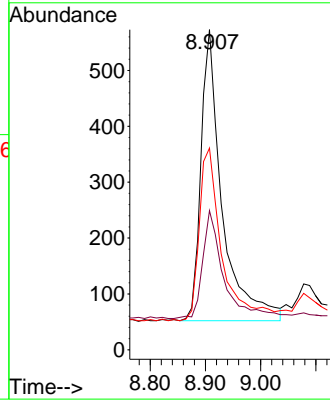
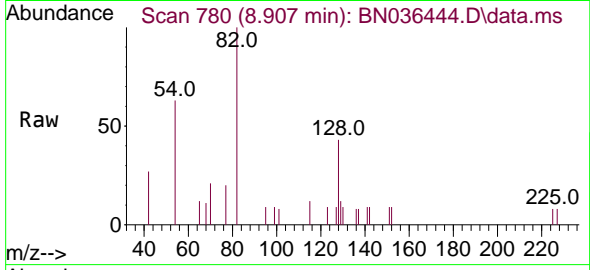


#8
 Nitrobenzene-d5
 Concen: 0.312 ng
 RT: 8.907 min Scan# 780
 Delta R.T. -0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250207

Tgt Ion: 82 Resp: 1389

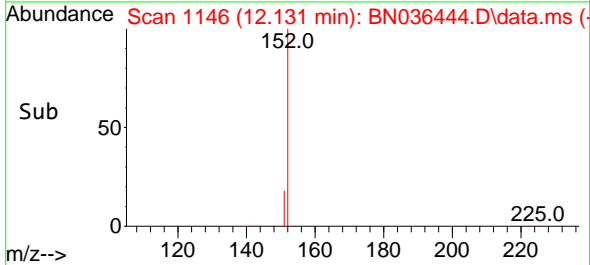
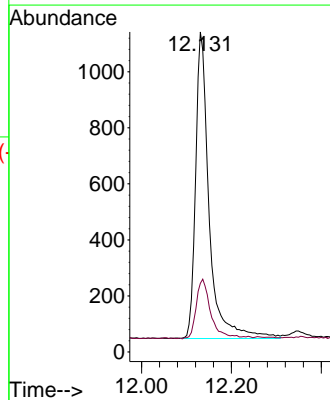
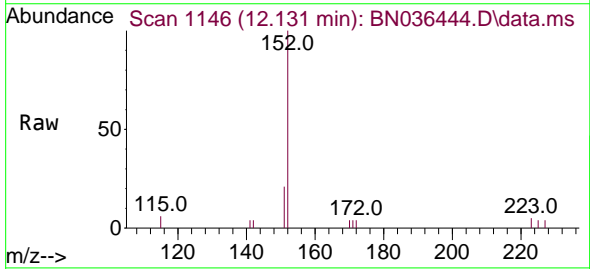
Ion	Ratio	Lower	Upper
82	100		
128	43.5	31.9	47.9
54	63.0	53.1	79.7

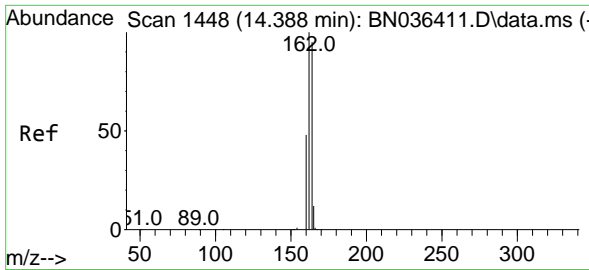


#11
 2-Methylnaphthalene-d10
 Concen: 0.331 ng
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Tgt Ion: 152 Resp: 2290

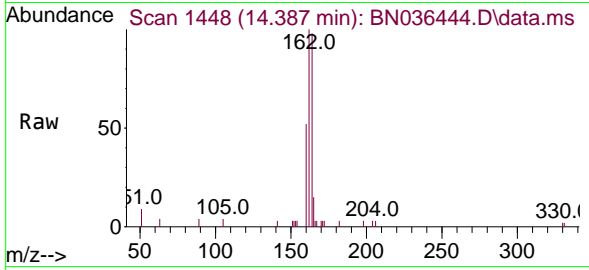
Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0





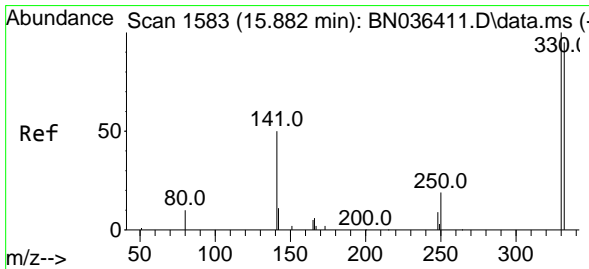
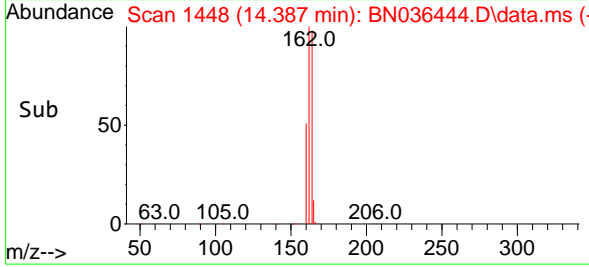
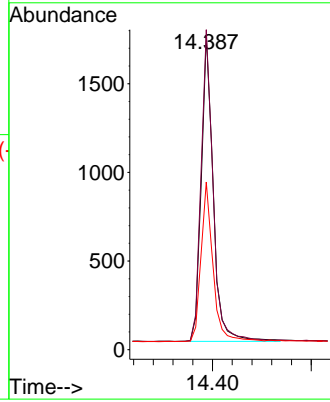
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250207



Tgt Ion:164 Resp: 2905

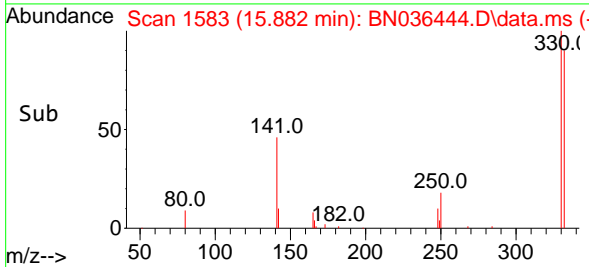
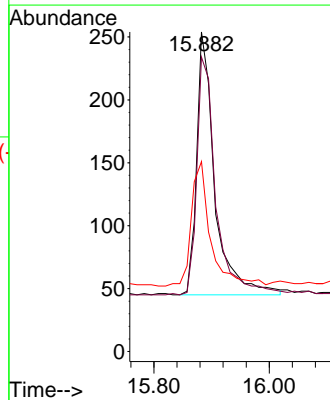
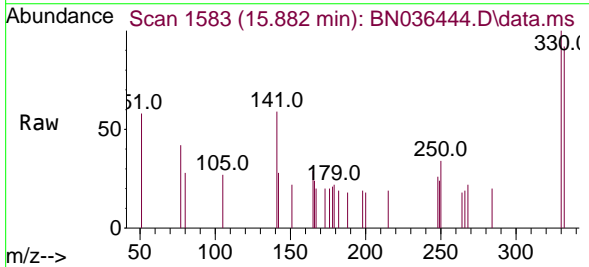
Ion	Ratio	Lower	Upper
164	100		
162	101.8	84.1	126.1
160	53.4	41.4	62.0

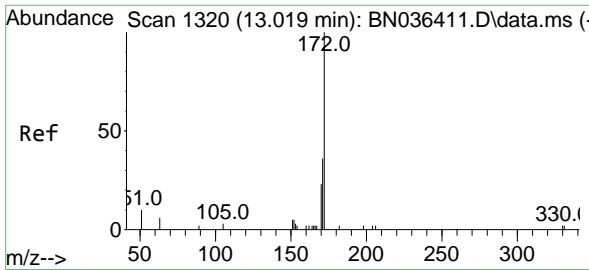


#14
 2,4,6-Tribromophenol
 Concen: 0.317 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Tgt Ion:330 Resp: 457

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.6	114.8
141	50.1	37.8	56.8

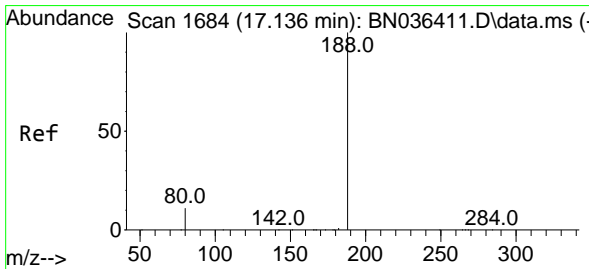
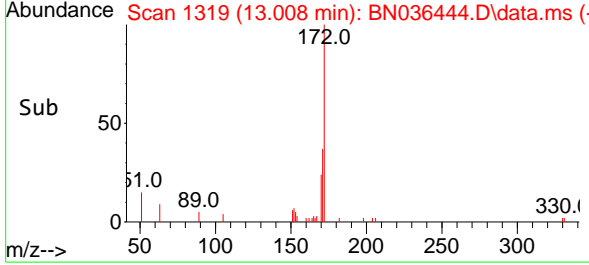
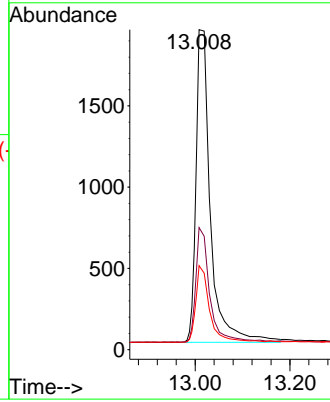
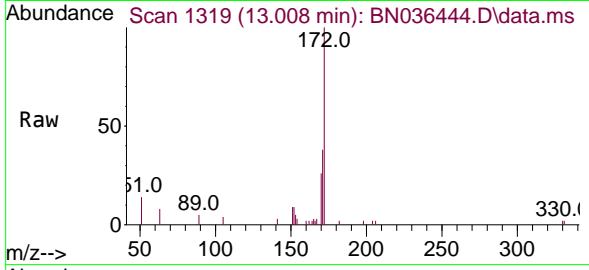




#15
 2-Fluorobiphenyl
 Concen: 0.385 ng
 RT: 13.008 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

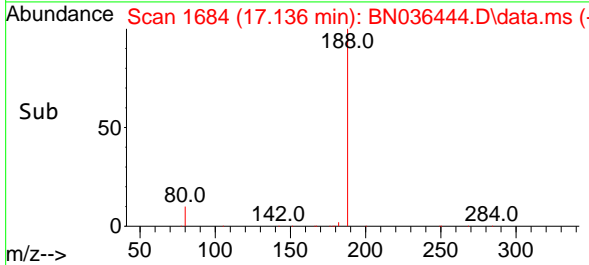
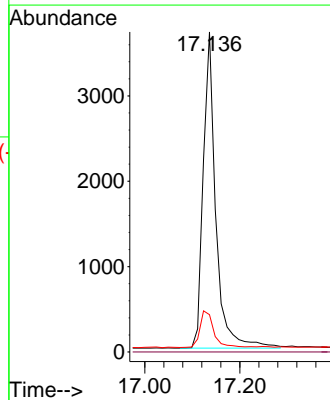
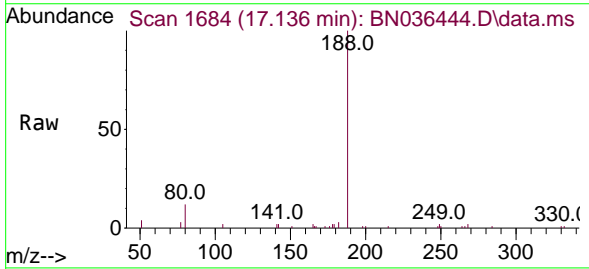
Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250207

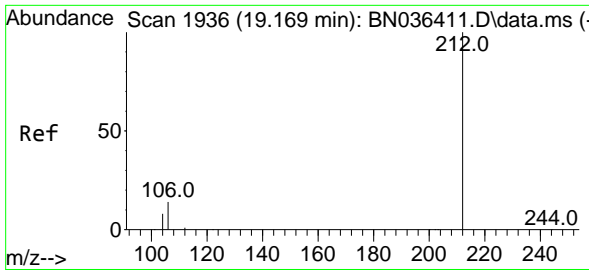
Tgt Ion	Resp	Lower	Upper
172	4209		
171	38.1	29.6	44.4
170	26.3	19.8	29.6



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 1684
 Delta R.T. -0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

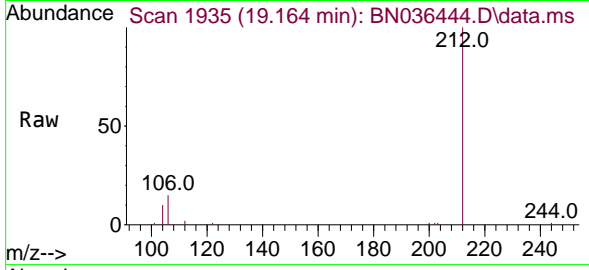
Tgt Ion	Resp	Lower	Upper
188	6814		
94	0.0	0.0	0.0
80	11.7	9.8	14.6



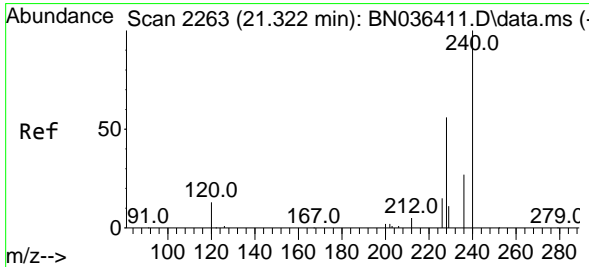
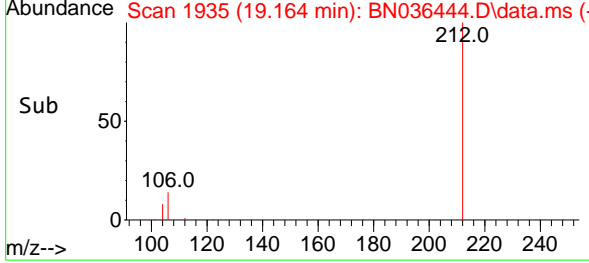
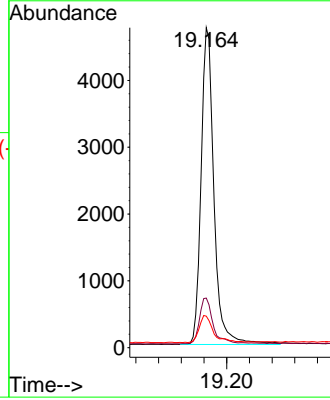


#27
 Fluoranthene-d10
 Concen: 0.393 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250207

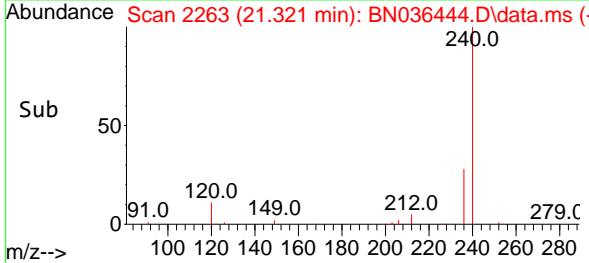
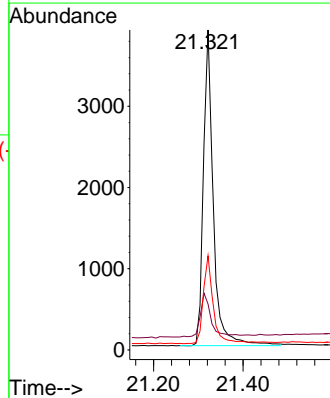
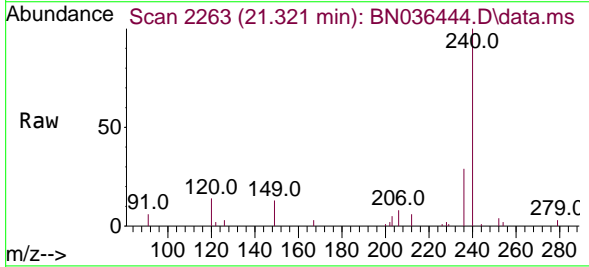


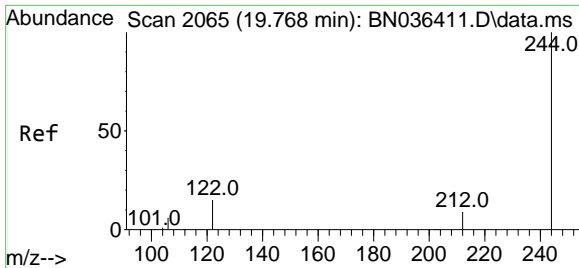
Tgt Ion:212 Resp: 7441
 Ion Ratio Lower Upper
 212 100
 106 15.6 11.5 17.3
 104 9.3 7.1 10.7



#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.321 min Scan# 2263
 Delta R.T. -0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

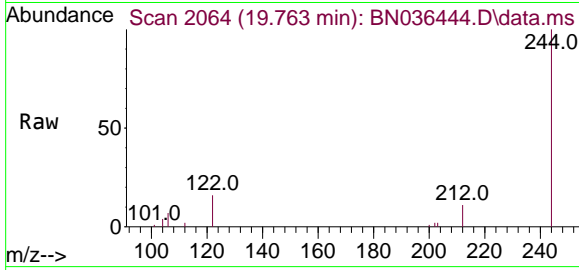
Tgt Ion:240 Resp: 6000
 Ion Ratio Lower Upper
 240 100
 120 14.4 13.3 19.9
 236 29.5 23.0 34.6





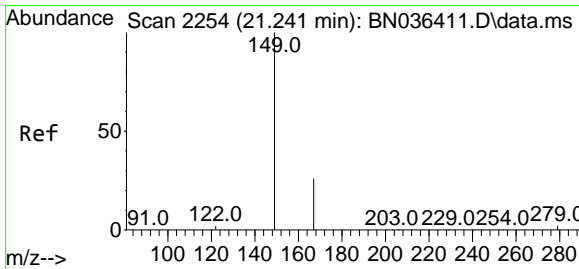
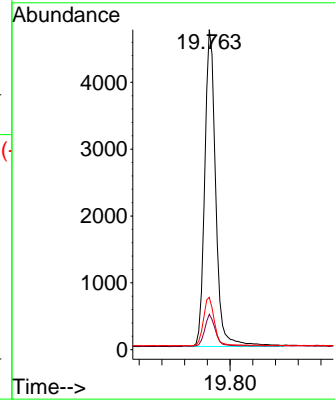
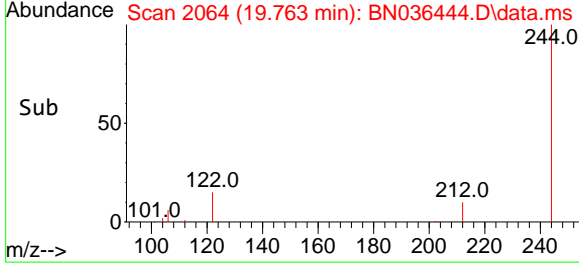
#31
 Terphenyl-d14
 Concen: 0.498 ng
 RT: 19.763 min Scan# 2064
 Delta R.T. -0.005 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Instrument : BNA_N
 ClientSampleId : BP-VPB-192-EB-20250207

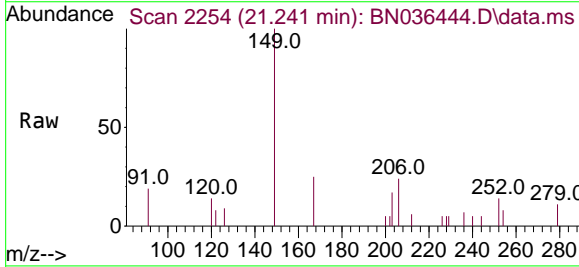


Tgt Ion: 244 Resp: 6379

Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	16.3	12.8	19.2

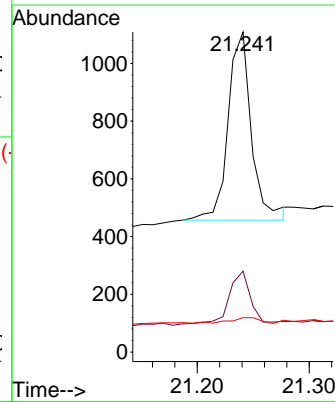
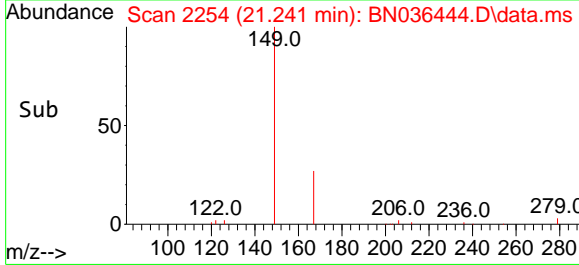


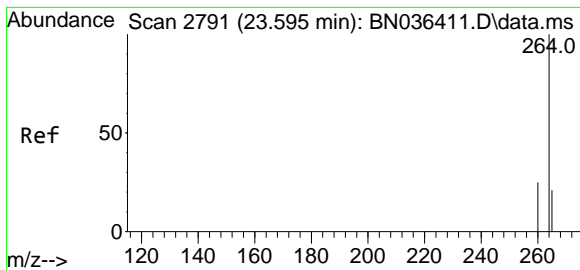
#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.077 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. -0.000 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36



Tgt Ion: 149 Resp: 944

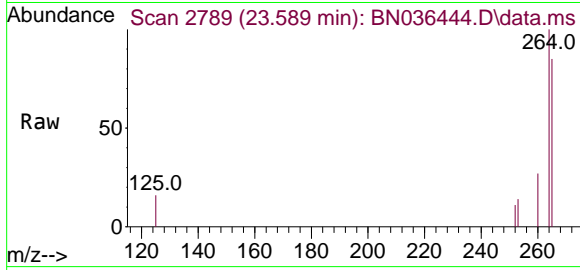
Ion	Ratio	Lower	Upper
149	100		
167	24.8	21.2	31.8
279	4.0	2.7	4.1





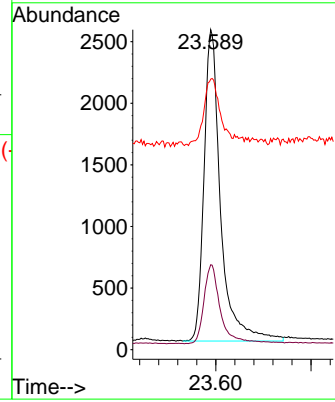
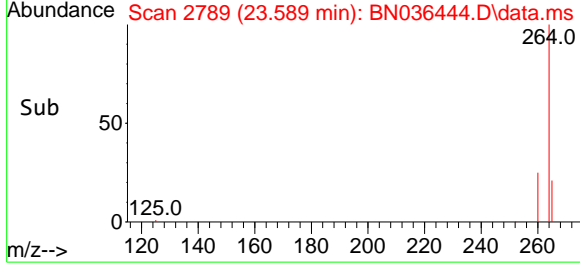
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.589 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036444.D
 Acq: 12 Feb 2025 17:36

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250207



Tgt Ion:264 Resp: 6113

Ion	Ratio	Lower	Upper
264	100		
260	26.6	20.9	31.3
265	84.5	60.7	91.1



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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-710-712	SDG No.:	Q1347
Lab Sample ID:	Q1347-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	540 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036445.D	1	02/11/25 11:05	02/12/25 18:12	PB166675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.89		0.13	0.37	0.37	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		109%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		143%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2540		7.753			
1146-65-2	Naphthalene-d8	6460		10.541			
15067-26-2	Acenaphthene-d10	3890		14.387			
1517-22-2	Phenanthrene-d10	8790		17.124			
1719-03-5	Chrysene-d12	7600		21.322			
1520-96-3	Perylene-d12	6350		23.586			

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\BN021225\
 Data File : BN036445.D
 Acq On : 12 Feb 2025 18:12
 Operator : RC/JU
 Sample : Q1347-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-710-712

Quant Time: Feb 12 23:16:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

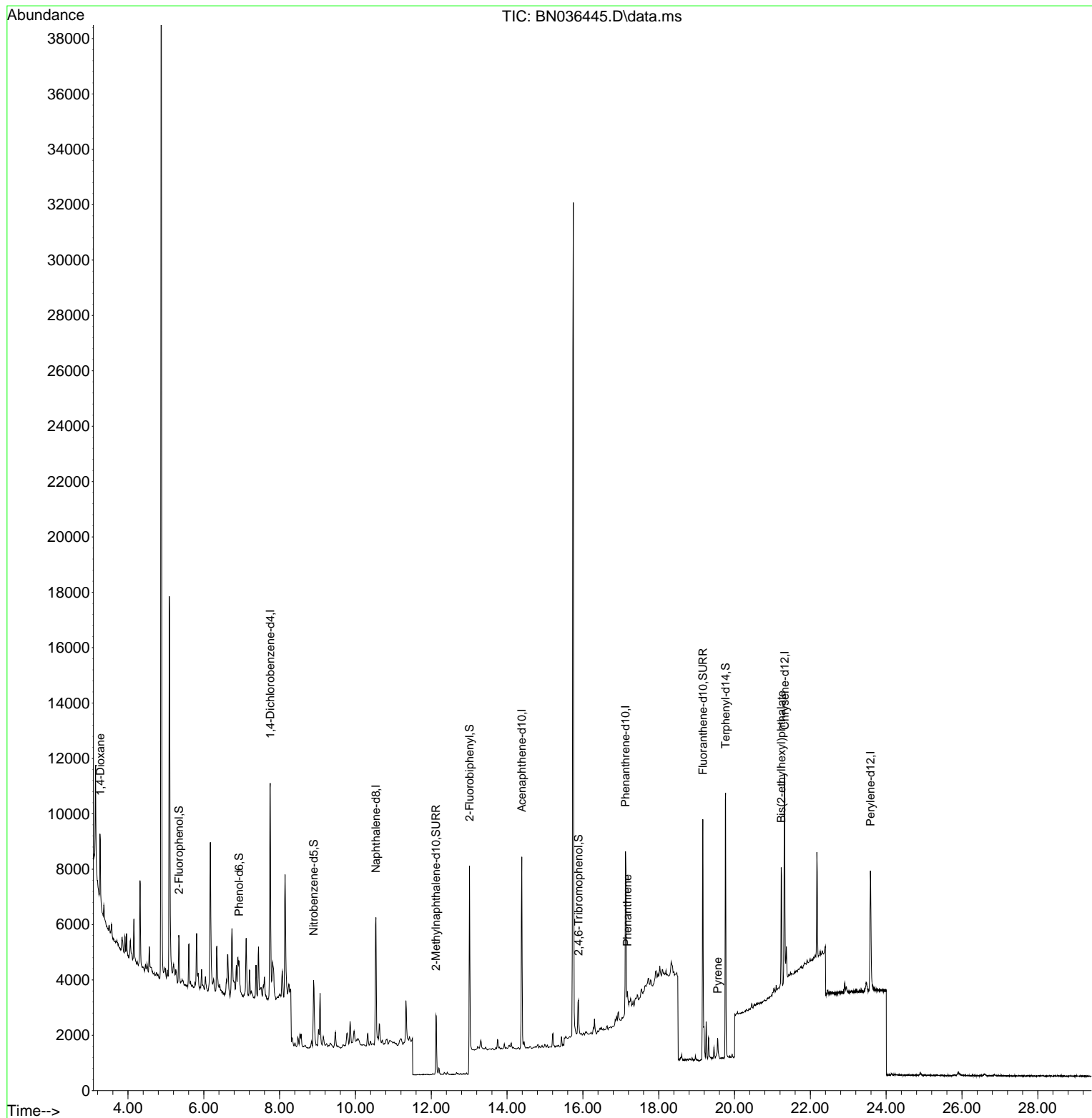
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2535	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6461	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.387	164	3888	0.400	ng	0.00	
19) Phenanthrene-d10	17.124	188	8786	0.400	ng	#-0.01	
29) Chrysene-d12	21.322	240	7596	0.400	ng	# 0.00	
35) Perylene-d12	23.586	264	6347	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	1191	0.199	ng	0.00	
5) Phenol-d6	6.930	99	1014	0.144	ng	0.00	
8) Nitrobenzene-d5	8.896	82	2025	0.318	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.126	152	3126	0.315	ng	-0.02	
14) 2,4,6-Tribromophenol	15.882	330	746	0.387	ng	0.00	
15) 2-Fluorobiphenyl	13.008	172	6380	0.436	ng	-0.01	
27) Fluoranthene-d10	19.164	212	9581	0.392	ng	0.00	
31) Terphenyl-d14	19.763	244	9257	0.571	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	1331	0.480	ng	# 87	
25) Phenanthrene	17.173	178	871	0.034	ng	# 85	
30) Pyrene	19.554	202	627	0.021	ng	# 92	
34) Bis(2-ethylhexyl)phtha...	21.232	149	4302	0.276	ng	# 99	

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

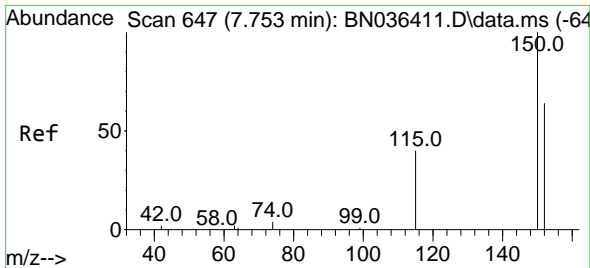
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036445.D
 Acq On : 12 Feb 2025 18:12
 Operator : RC/JU
 Sample : Q1347-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 BP-VPB-192-GW-710-712

Quant Time: Feb 12 23:16:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

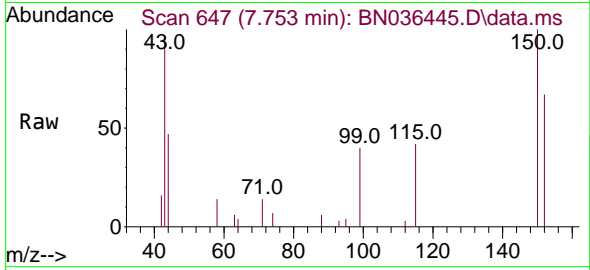


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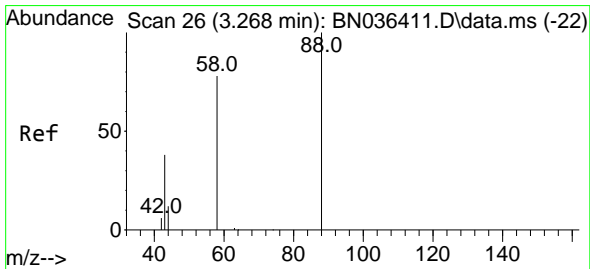
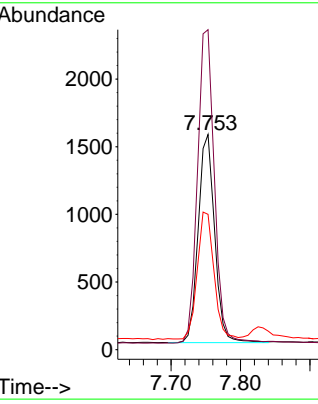
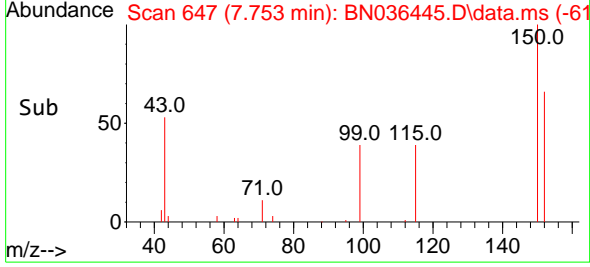


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

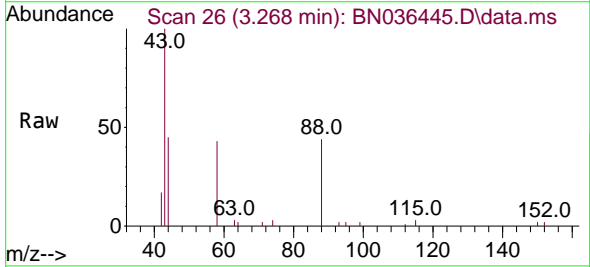
Instrument : BNA_N
 ClientSampleId : BP-VPB-192-GW-710-712



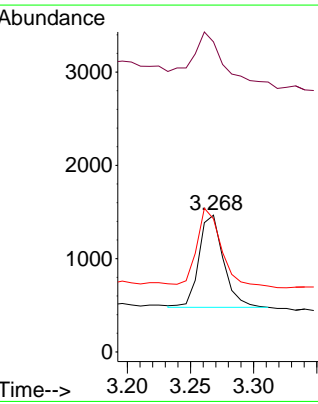
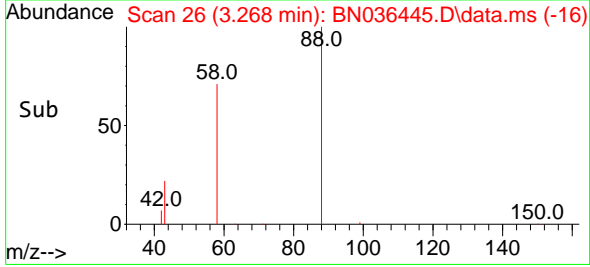
Tgt Ion:152 Resp: 2535
 Ion Ratio Lower Upper
 152 100
 150 148.6 123.7 185.5
 115 62.9 52.5 78.7

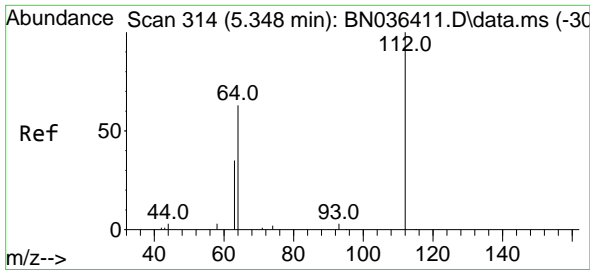


#2
 1,4-Dioxane
 Concen: 0.480 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12



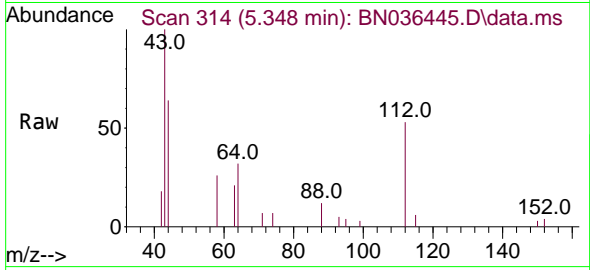
Tgt Ion: 88 Resp: 1331
 Ion Ratio Lower Upper
 88 100
 43 62.9 33.7 50.5#
 58 82.5 68.9 103.3





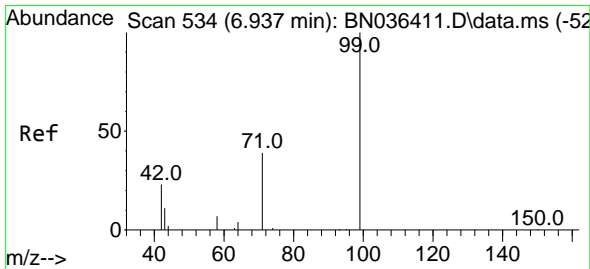
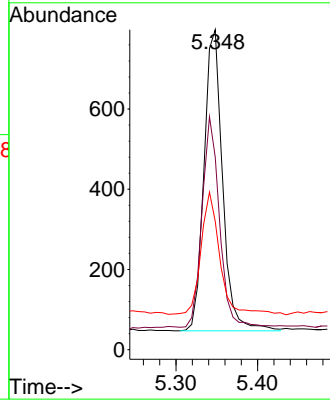
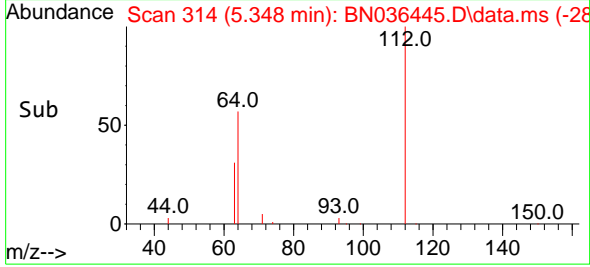
#4
 2-Fluorophenol
 Concen: 0.199 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-710-712

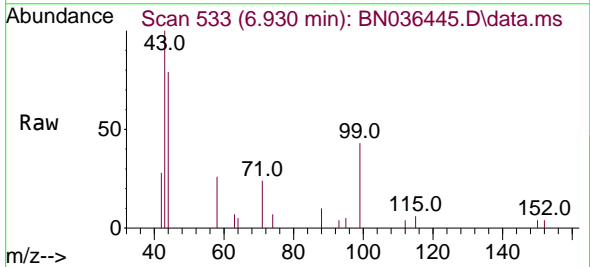


Tgt Ion: 112 Resp: 1191

Ion	Ratio	Lower	Upper
112	100		
64	65.9	53.4	80.0
63	41.5	30.3	45.5

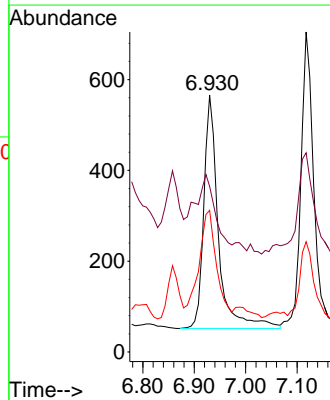
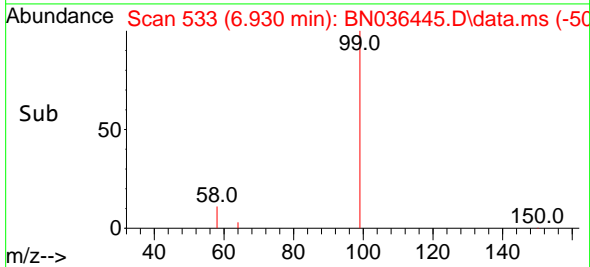


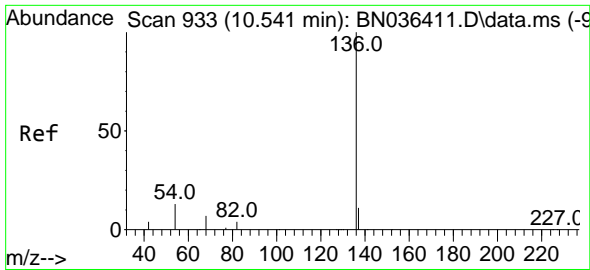
#5
 Phenol-d6
 Concen: 0.144 ng
 RT: 6.930 min Scan# 533
 Delta R.T. -0.007 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12



Tgt Ion: 99 Resp: 1014

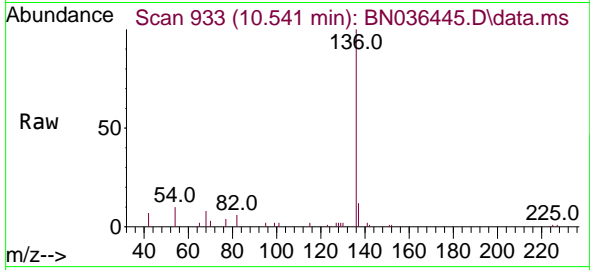
Ion	Ratio	Lower	Upper
99	100		
42	40.0	21.7	32.5#
71	55.1	32.6	49.0#





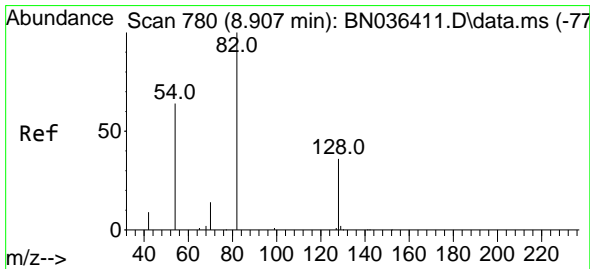
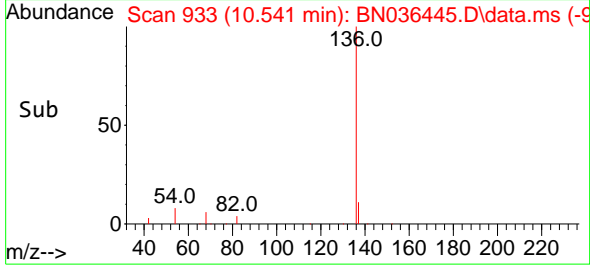
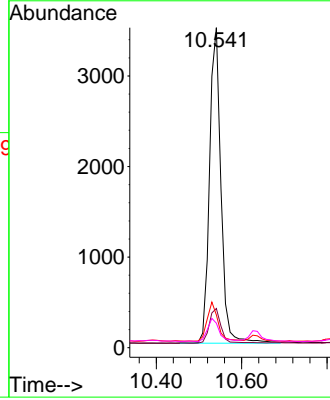
#7
Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Instrument :
 BNA_N
ClientSampleId :
 BP-VPB-192-GW-710-712



Tgt Ion: 136 Resp: 6461

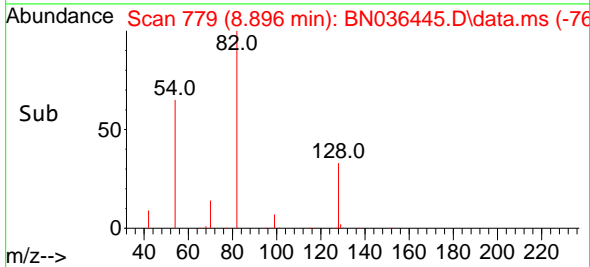
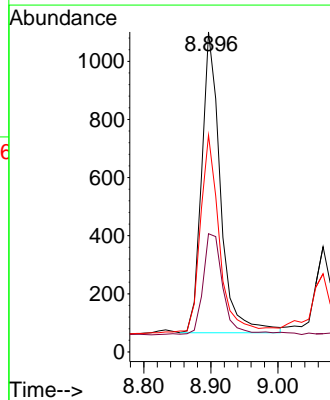
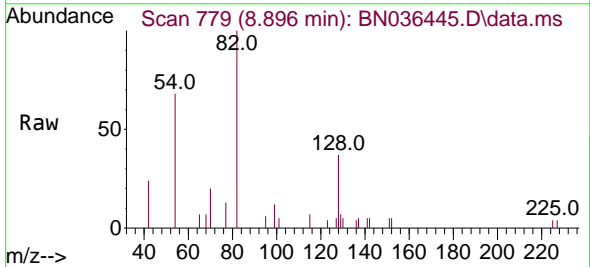
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.1	15.1
54	10.2	11.8	17.6#
68	7.6	7.2	10.8

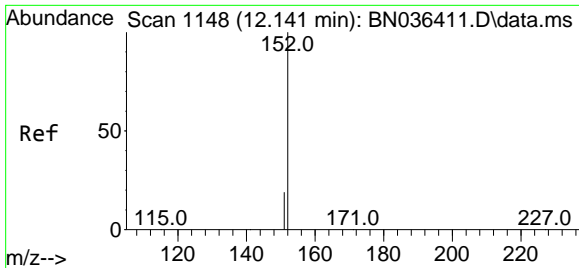


#8
Nitrobenzene-d5
 Concen: 0.318 ng
 RT: 8.896 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Tgt Ion: 82 Resp: 2025

Ion	Ratio	Lower	Upper
82	100		
128	37.0	31.9	47.9
54	67.8	53.1	79.7

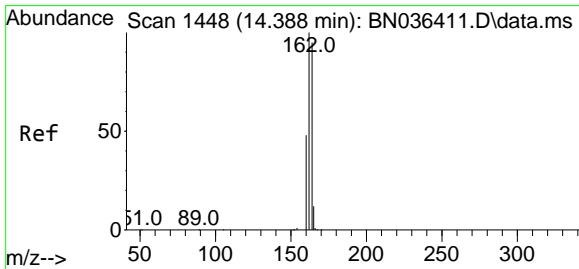
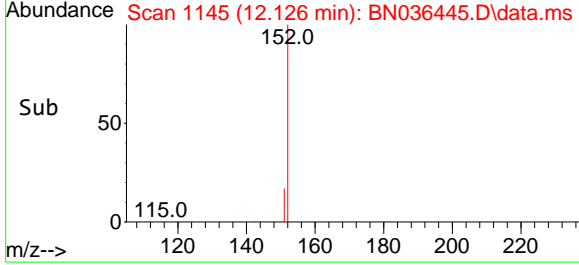
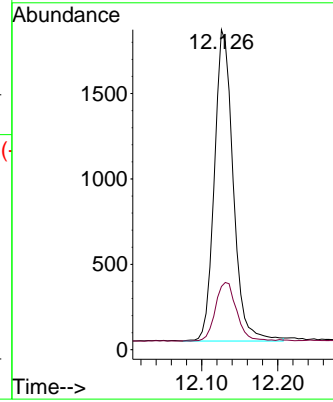
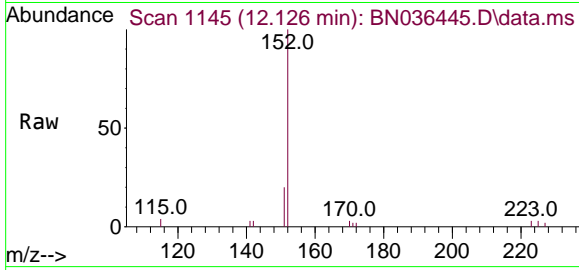




#11
 2-Methylnaphthalene-d10
 Concen: 0.315 ng
 RT: 12.126 min Scan# 1145
 Delta R.T. -0.015 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

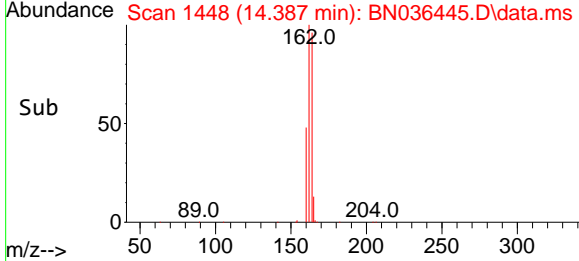
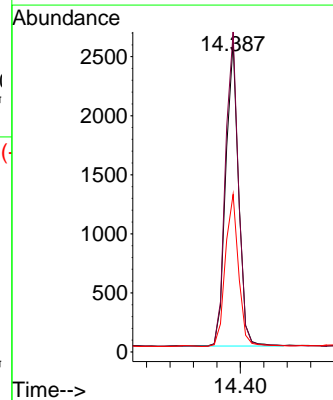
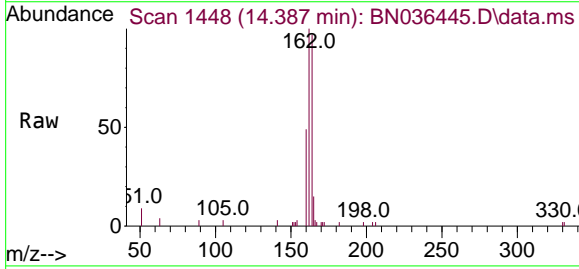
Instrument : BNA_N
 ClientSampleId : BP-VPB-192-GW-710-712

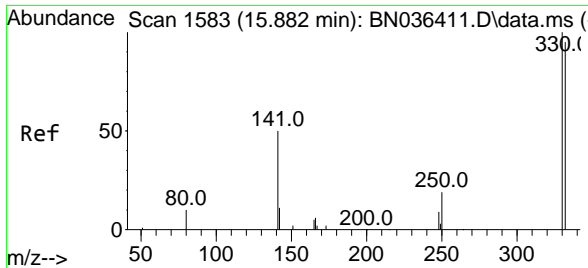
Tgt Ion:152 Resp: 3126
 Ion Ratio Lower Upper
 152 100
 151 21.1 16.6 25.0



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 1448
 Delta R.T. -0.000 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

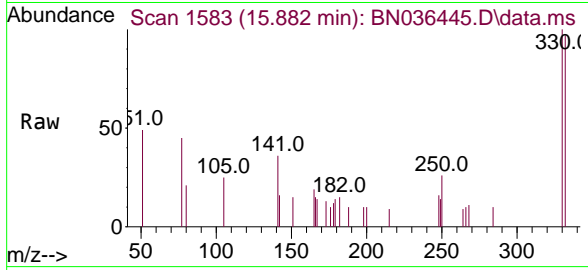
Tgt Ion:164 Resp: 3888
 Ion Ratio Lower Upper
 164 100
 162 103.4 84.1 126.1
 160 50.9 41.4 62.0





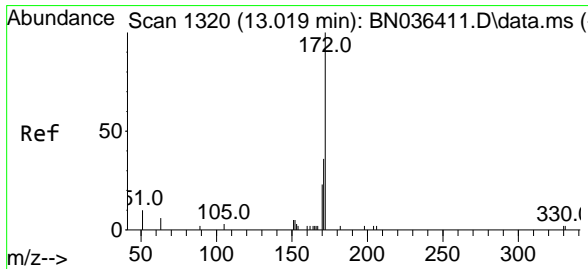
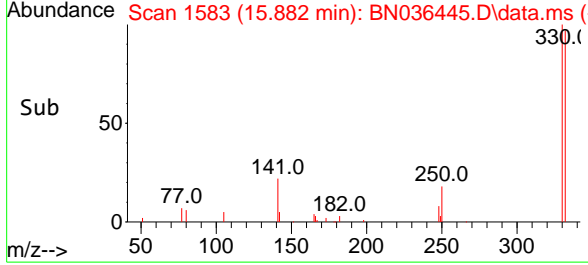
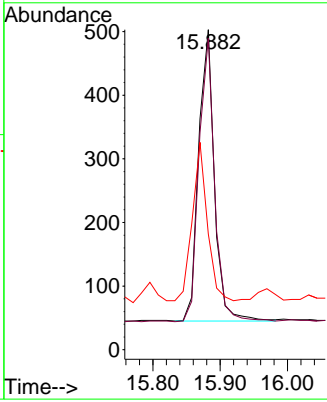
#14
 2,4,6-Tribromophenol
 Concen: 0.387 ng
 RT: 15.882 min Scan# 1111
 Delta R.T. -0.000 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Instrument : BNA_N
 ClientSampleId : BP-VPB-192-GW-710-712

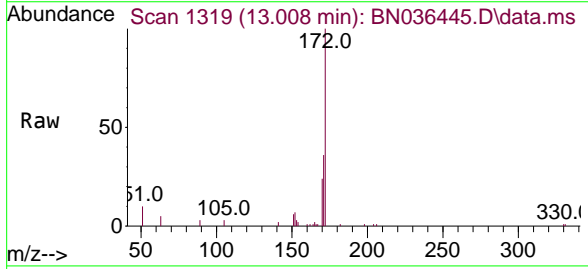


Tgt Ion: 330 Resp: 746

Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	114.8
141	51.7	37.8	56.8

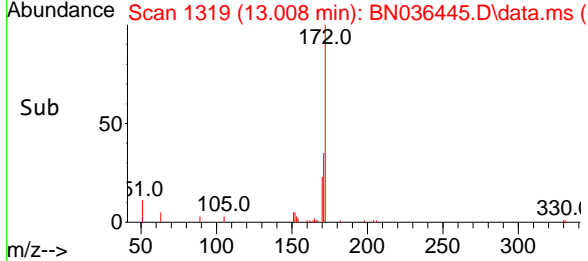
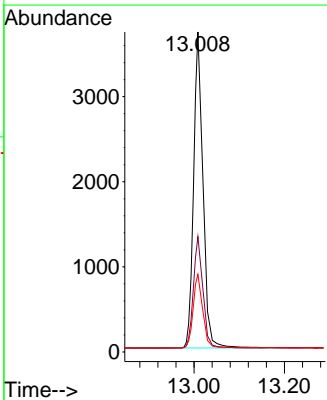


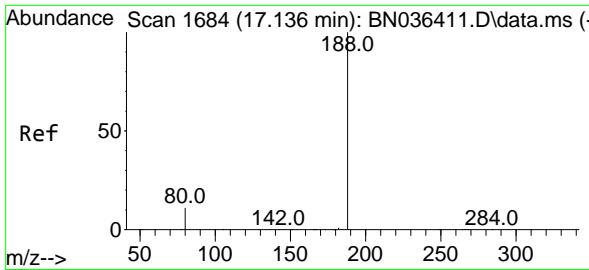
#15
 2-Fluorobiphenyl
 Concen: 0.436 ng
 RT: 13.008 min Scan# 1319
 Delta R.T. -0.011 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12



Tgt Ion: 172 Resp: 6380

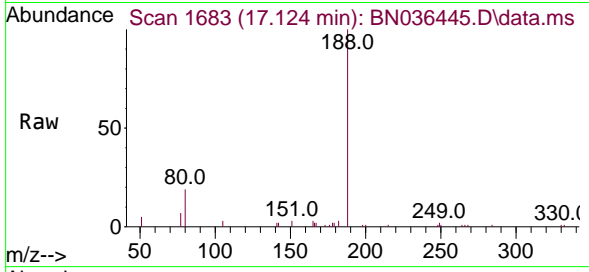
Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.6	44.4
170	24.3	19.8	29.6





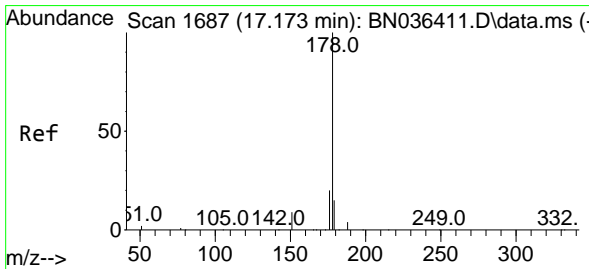
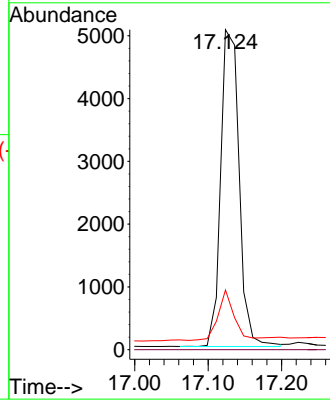
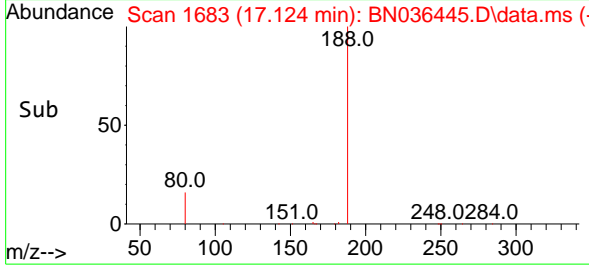
#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.124 min Scan# 1683
 Delta R.T. -0.013 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-710-712

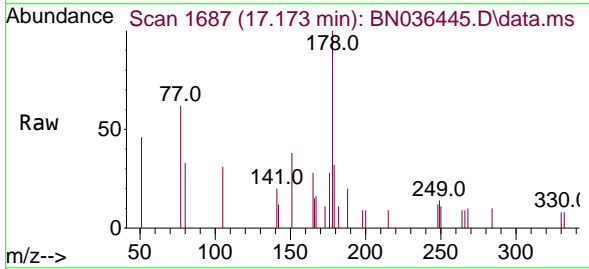


Tgt Ion:188 Resp: 8786

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	18.7	9.8	14.6#

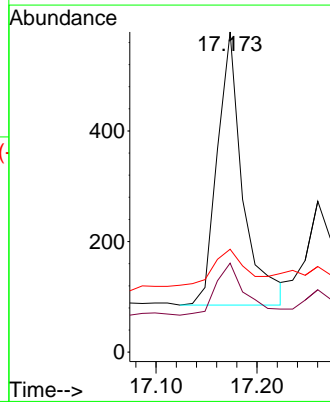
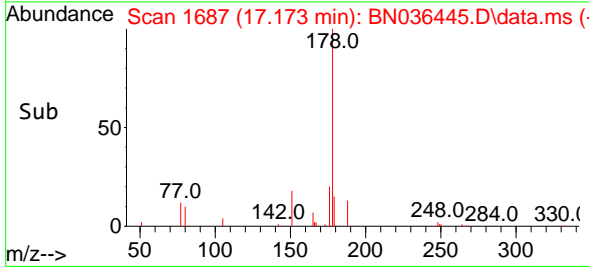


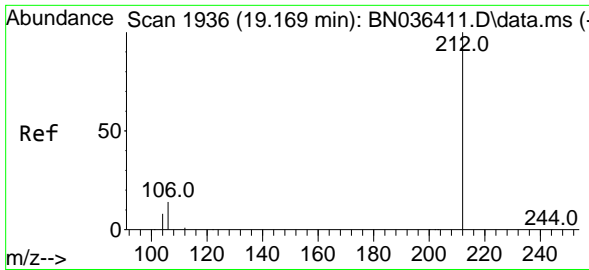
#25
 Phenanthrene
 Concen: 0.034 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12



Tgt Ion:178 Resp: 871

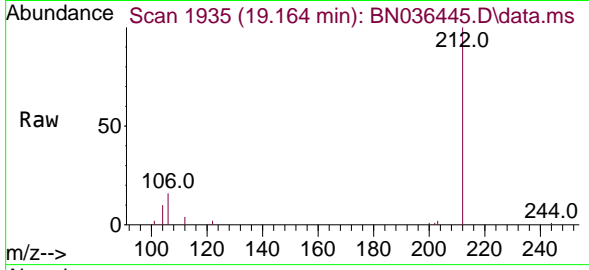
Ion	Ratio	Lower	Upper
178	100		
176	22.2	15.7	23.5
179	26.6	12.4	18.6#





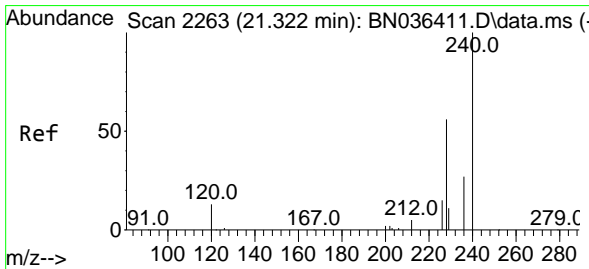
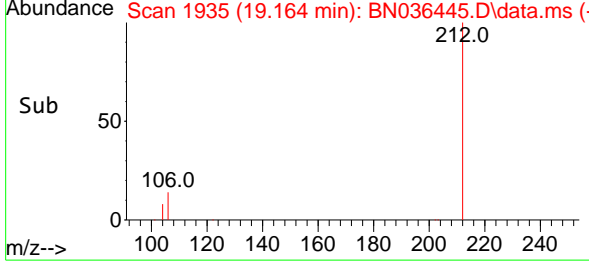
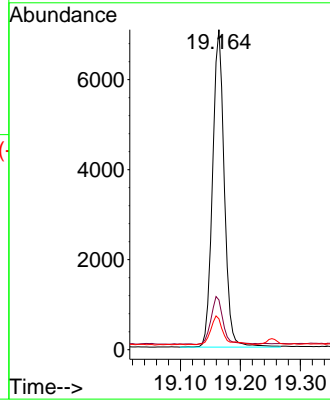
#27
 Fluoranthene-d10
 Concen: 0.392 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-710-712



Tgt Ion:212 Resp: 9581

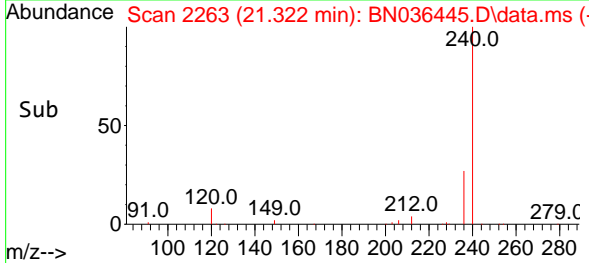
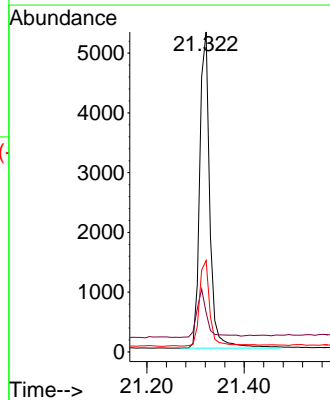
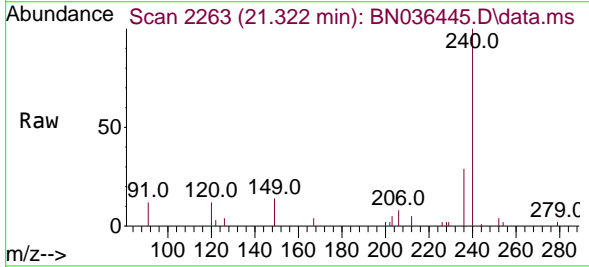
Ion	Ratio	Lower	Upper
212	100		
106	15.4	11.5	17.3
104	9.5	7.1	10.7

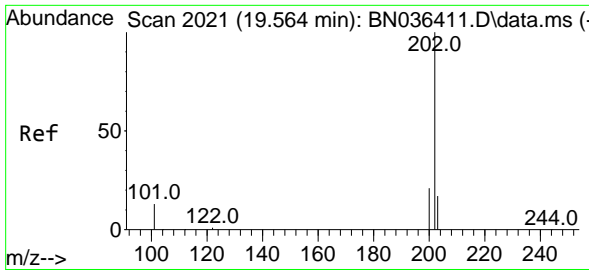


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 2263
 Delta R.T. -0.000 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Tgt Ion:240 Resp: 7596

Ion	Ratio	Lower	Upper
240	100		
120	12.3	13.3	19.9#
236	28.6	23.0	34.6

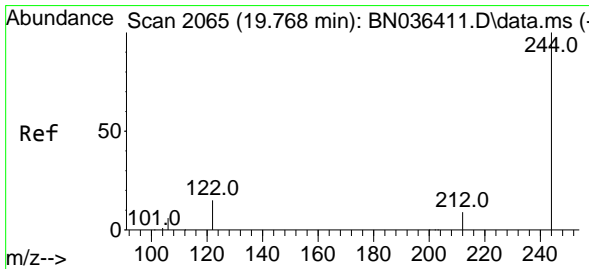
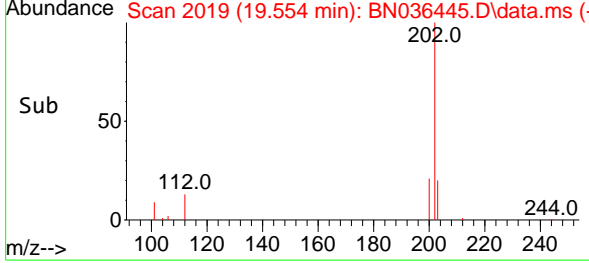
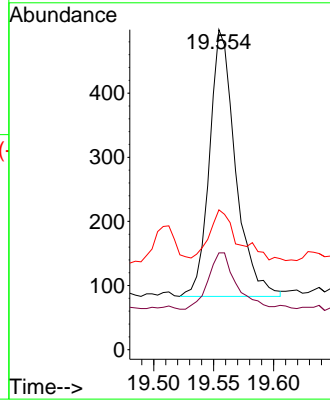
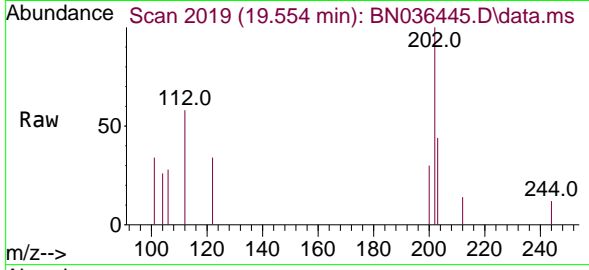




#30
 Pyrene
 Concen: 0.021 ng
 RT: 19.554 min Scan# 2019
 Delta R.T. -0.009 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

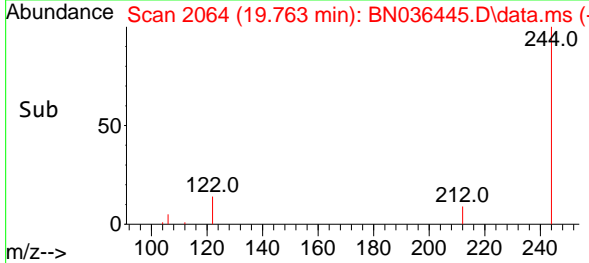
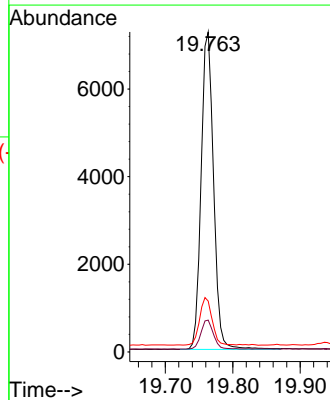
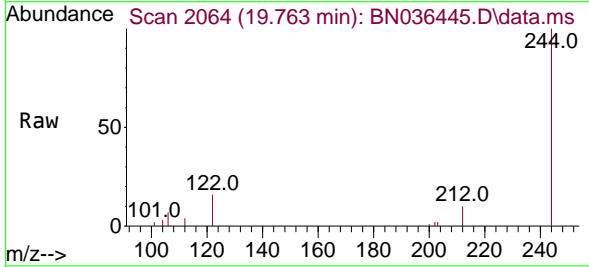
Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-710-712

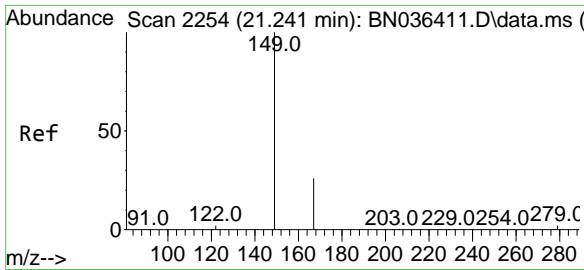
Tgt Ion	Resp	Lower	Upper
202	100		
200	23.0	16.9	25.3
203	22.6	13.9	20.9



#31
 Terphenyl-d14
 Concen: 0.571 ng
 RT: 19.763 min Scan# 2064
 Delta R.T. -0.005 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

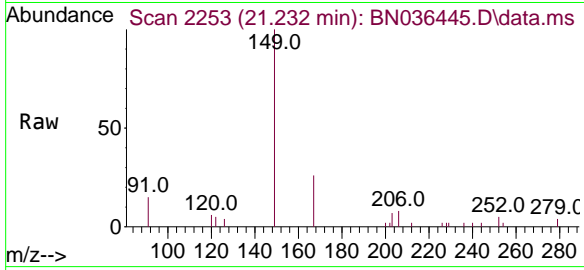
Tgt Ion	Resp	Lower	Upper
244	100		
212	10.0	8.1	12.1
122	15.9	12.8	19.2





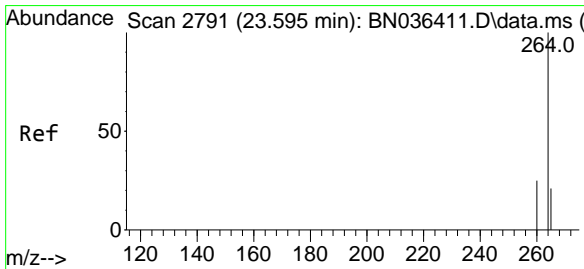
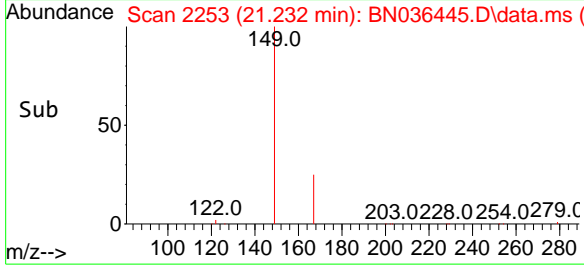
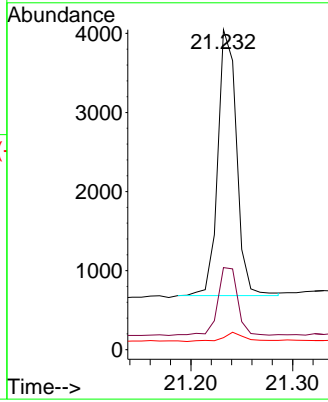
#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.276 ng
 RT: 21.232 min Scan# 2111
 Delta R.T. -0.009 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Instrument : BNA_N
 ClientSampleId : BP-VPB-192-GW-710-712



Tgt Ion:149 Resp: 4302

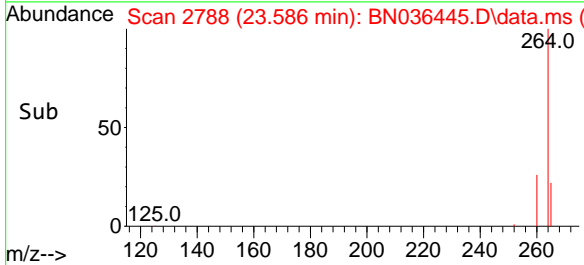
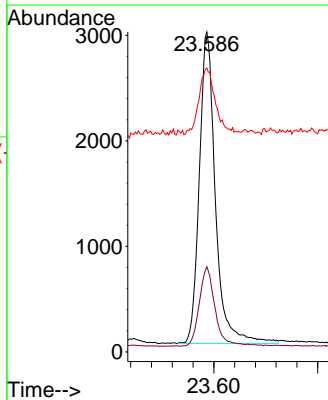
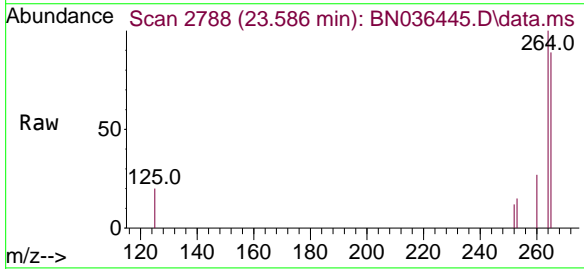
Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.2	31.8
279	3.9	2.7	4.1



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.586 min Scan# 2788
 Delta R.T. -0.009 min
 Lab File: BN036445.D
 Acq: 12 Feb 2025 18:12

Tgt Ion:264 Resp: 6347

Ion	Ratio	Lower	Upper
264	100		
260	26.6	20.9	31.3
265	88.8	60.7	91.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-660-662	SDG No.:	Q1347
Lab Sample ID:	Q1347-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036446.D	1	02/11/25 11:05	02/12/25 18:48	PB166675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.70	J	0.68	2.00	2.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		74%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2850		7.753			
1146-65-2	Naphthalene-d8	7660		10.541			
15067-26-2	Acenaphthene-d10	4760		14.387			
1517-22-2	Phenanthrene-d10	10600		17.136			
1719-03-5	Chrysene-d12	9600		21.322			
1520-96-3	Perylene-d12	8140		23.589			

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\BN021225\
 Data File : BN036446.D
 Acq On : 12 Feb 2025 18:48
 Operator : RC/JU
 Sample : Q1347-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-660-662

Quant Time: Feb 12 23:16:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

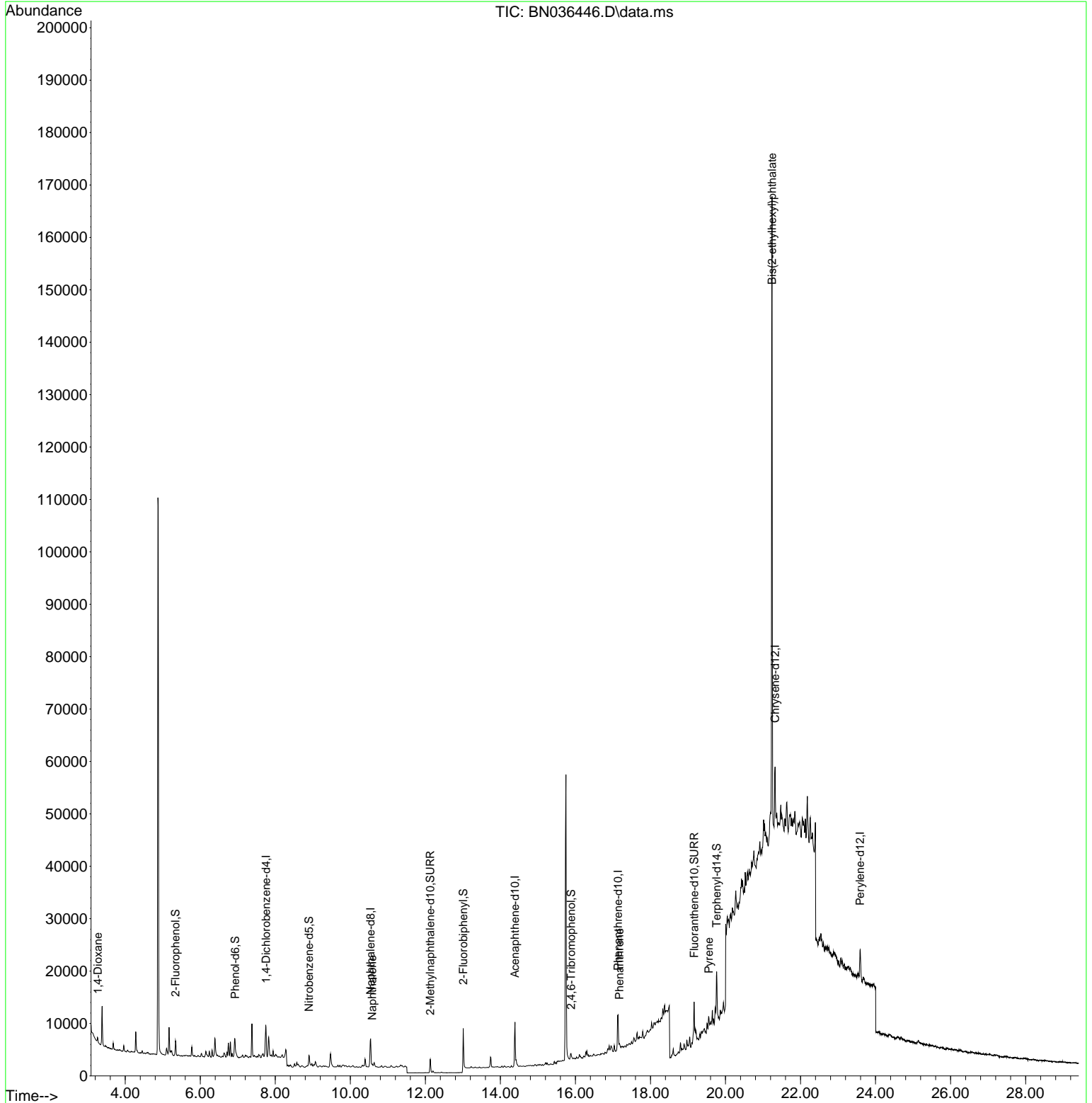
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2854	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	7661	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.387	164	4758	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	10555	0.400	ng	0.00	
29) Chrysene-d12	21.322	240	9596	0.400	ng	# 0.00	
35) Perylene-d12	23.589	264	8144	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	1793	0.266	ng	0.00	
5) Phenol-d6	6.930	99	2052	0.259	ng	0.00	
8) Nitrobenzene-d5	8.896	82	2160	0.286	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	3756	0.319	ng	-0.01	
14) 2,4,6-Tribromophenol	15.882	330	689	0.292	ng	0.00	
15) 2-Fluorobiphenyl	13.008	172	6874	0.384	ng	-0.01	
27) Fluoranthene-d10	19.164	212	8713	0.297	ng	0.00	
31) Terphenyl-d14	19.763	244	7417	0.362	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	525	0.168	ng	# 68	
9) Naphthalene	10.583	128	830	0.038	ng	# 73	
25) Phenanthrene	17.173	178	1097	0.036	ng	# 78	
30) Pyrene	19.559	202	945	0.026	ng	# 93	
34) Bis(2-ethylhexyl)phtha...	21.241	149	111354	5.660	ng	99	

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

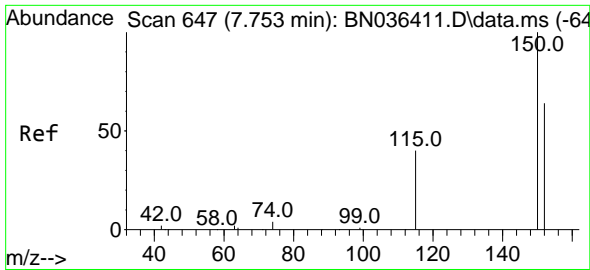
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036446.D
 Acq On : 12 Feb 2025 18:48
 Operator : RC/JU
 Sample : Q1347-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 BP-VPB-192-GW-660-662

Quant Time: Feb 12 23:16:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

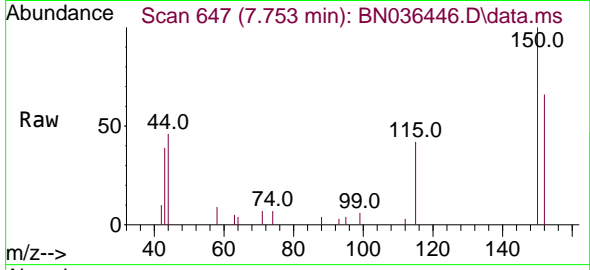


- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
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- 13
- 14
- 15
- 16
- 17
- 18



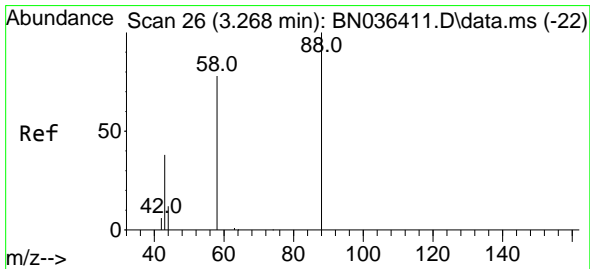
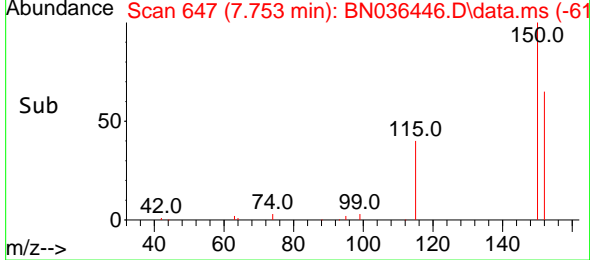
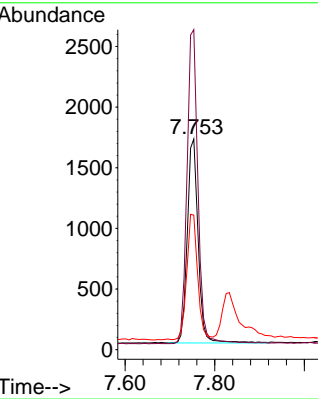
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-660-662

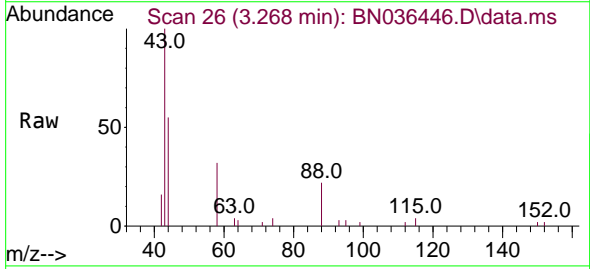


Tgt Ion: 152 Resp: 2854

Ion	Ratio	Lower	Upper
152	100		
150	151.8	123.7	185.5
115	63.9	52.5	78.7

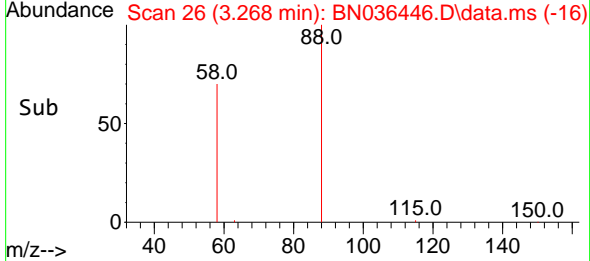
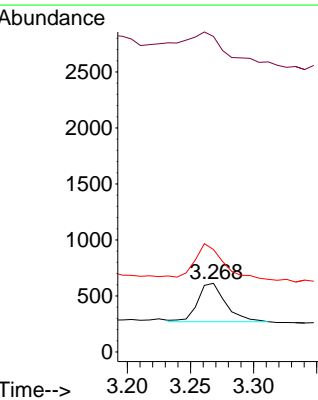


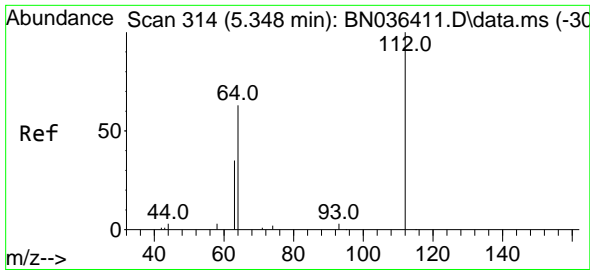
#2
 1,4-Dioxane
 Concen: 0.168 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48



Tgt Ion: 88 Resp: 525

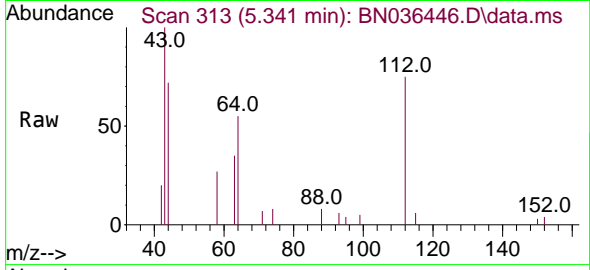
Ion	Ratio	Lower	Upper
88	100		
43	94.7	33.7	50.5#
58	92.4	68.9	103.3





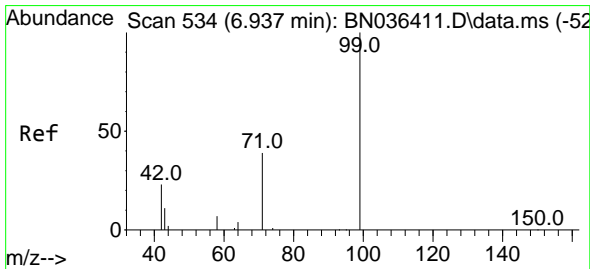
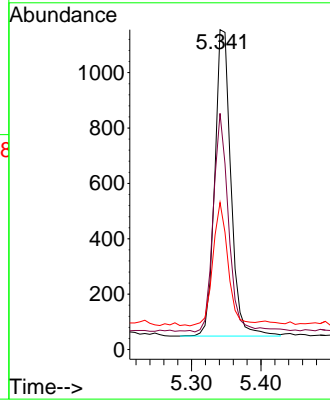
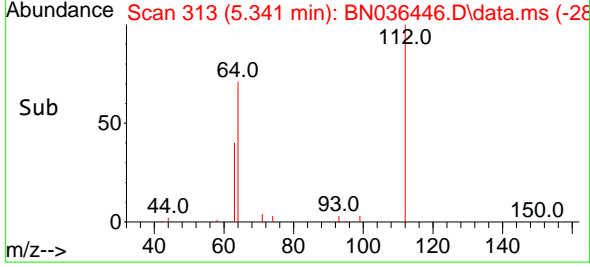
#4
 2-Fluorophenol
 Concen: 0.266 ng
 RT: 5.341 min Scan# 314
 Delta R.T. -0.007 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-660-662

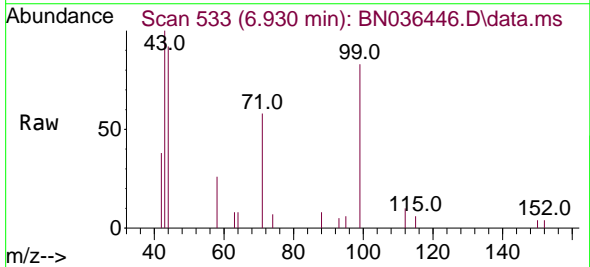


Tgt Ion: 112 Resp: 1793

Ion	Ratio	Lower	Upper
112	100		
64	68.7	53.4	80.0
63	37.9	30.3	45.5

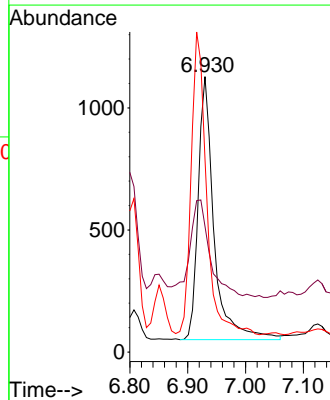
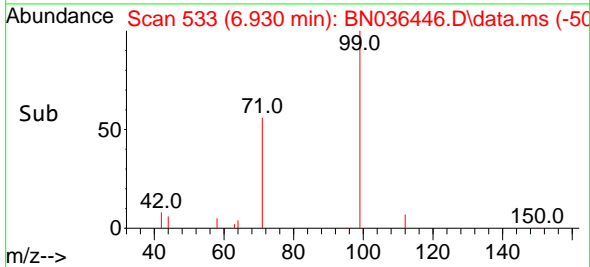


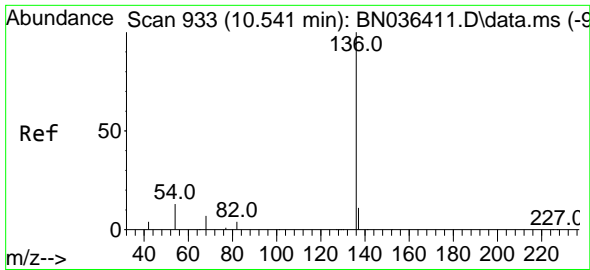
#5
 Phenol-d6
 Concen: 0.259 ng
 RT: 6.930 min Scan# 533
 Delta R.T. -0.007 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48



Tgt Ion: 99 Resp: 2052

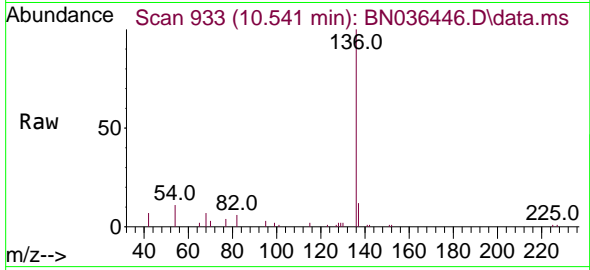
Ion	Ratio	Lower	Upper
99	100		
42	48.1	21.7	32.5#
71	111.3	32.6	49.0#





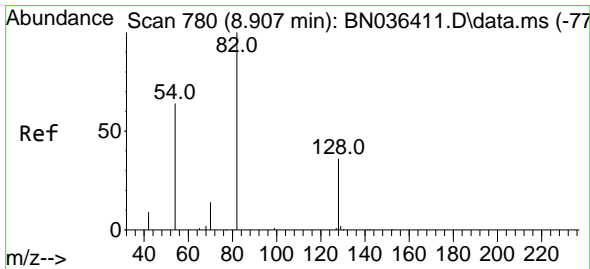
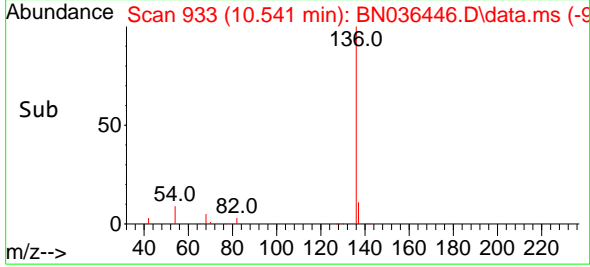
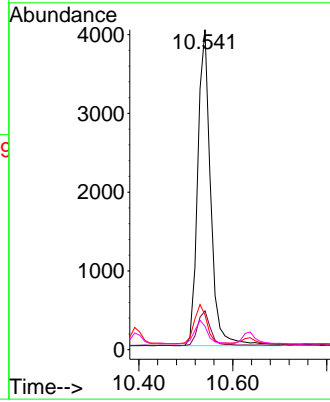
#7
Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Instrument :
 BNA_N
ClientSampleId :
 BP-VPB-192-GW-660-662



Tgt Ion: 136 Resp: 7661

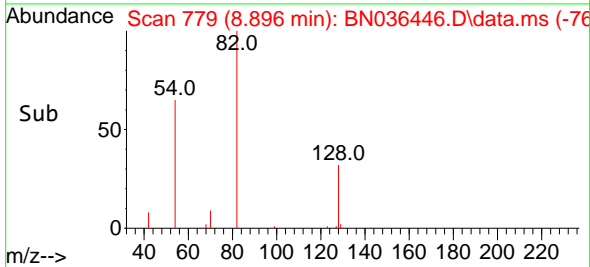
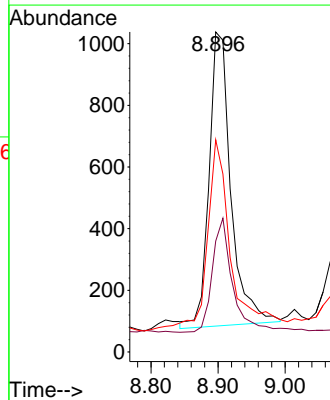
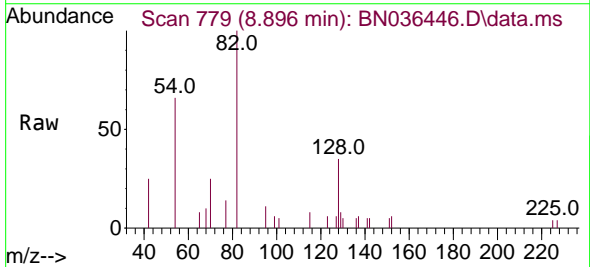
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.1	15.1
54	10.8	11.8	17.6#
68	7.3	7.2	10.8

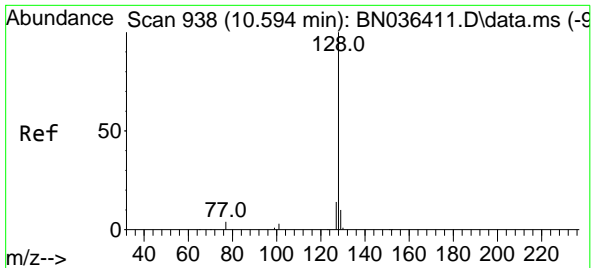


#8
Nitrobenzene-d5
 Concen: 0.286 ng
 RT: 8.896 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Tgt Ion: 82 Resp: 2160

Ion	Ratio	Lower	Upper
82	100		
128	34.7	31.9	47.9
54	66.3	53.1	79.7



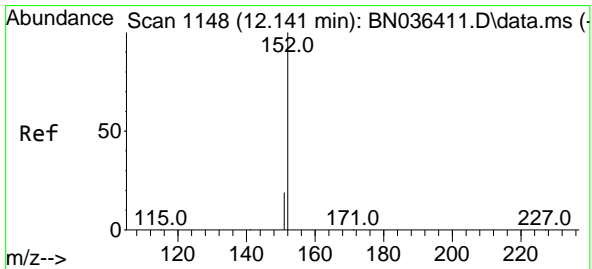
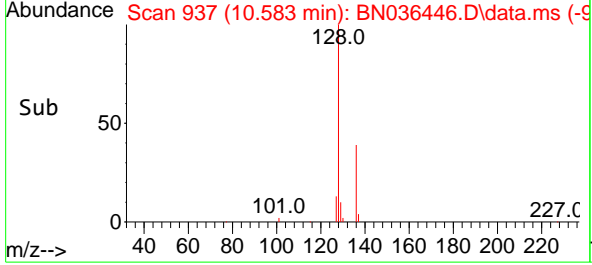
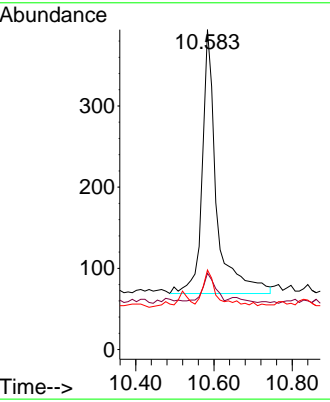
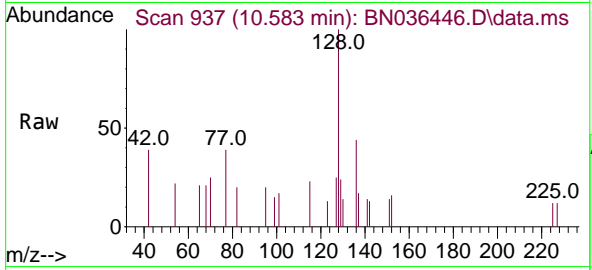


#9
Naphthalene
 Concen: 0.038 ng
 RT: 10.583 min Scan# 91
 Delta R.T. -0.011 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Instrument :
 BNA_N
ClientSampleId :
 BP-VPB-192-GW-660-662

Tgt Ion:128 Resp: 830

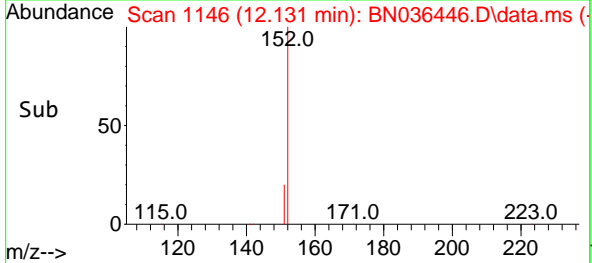
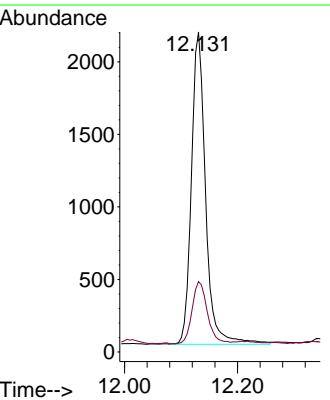
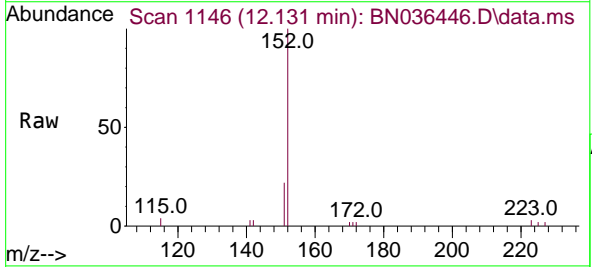
Ion	Ratio	Lower	Upper
128	100		
129	23.9	9.6	14.4#
127	24.9	12.0	18.0#

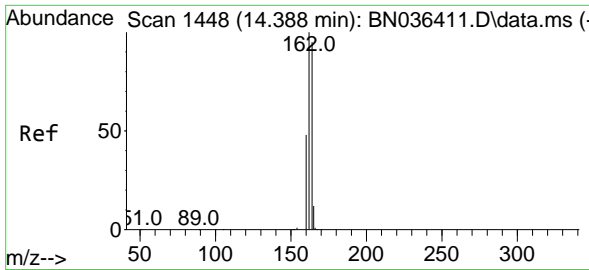


#11
2-Methylnaphthalene-d10
 Concen: 0.319 ng
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Tgt Ion:152 Resp: 3756

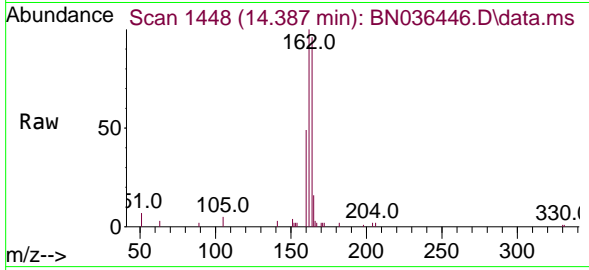
Ion	Ratio	Lower	Upper
152	100		
151	21.6	16.6	25.0





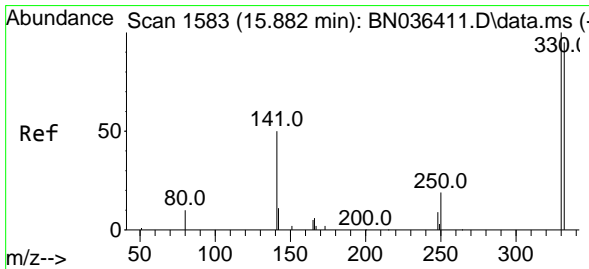
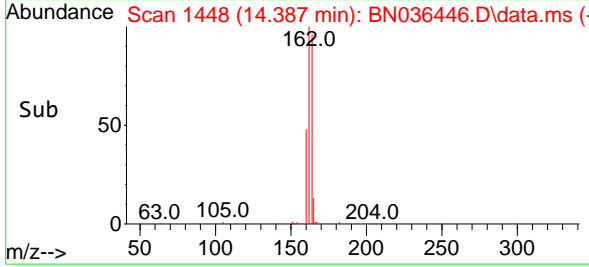
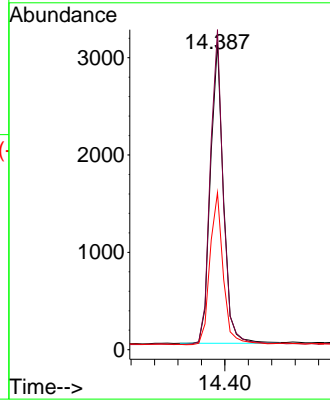
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-660-662



Tgt Ion:164 Resp: 4758

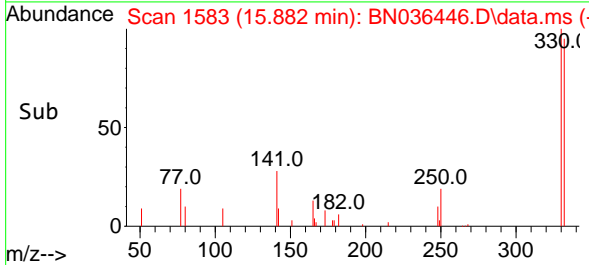
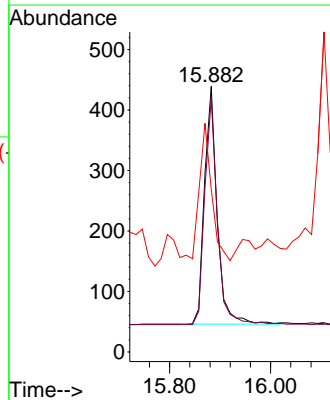
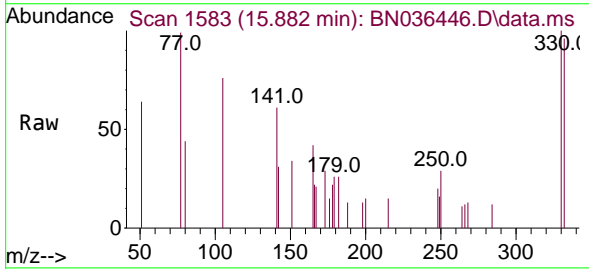
Ion	Ratio	Lower	Upper
164	100		
162	104.0	84.1	126.1
160	51.0	41.4	62.0

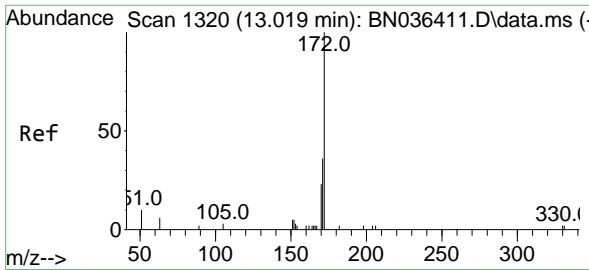


#14
 2,4,6-Tribromophenol
 Concen: 0.292 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Tgt Ion:330 Resp: 689

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.6	114.8
141	55.7	37.8	56.8

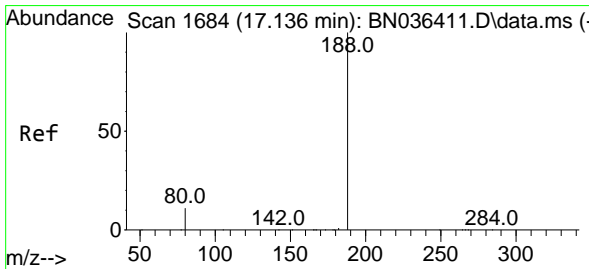
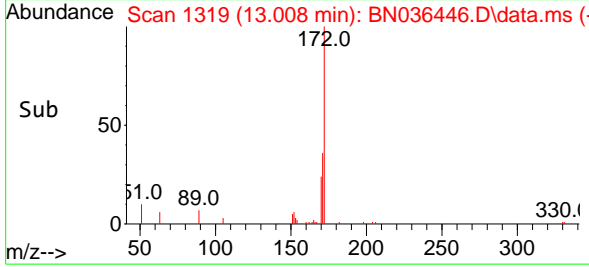
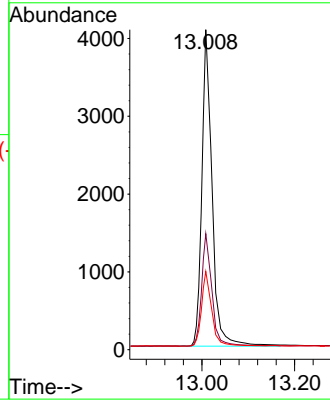
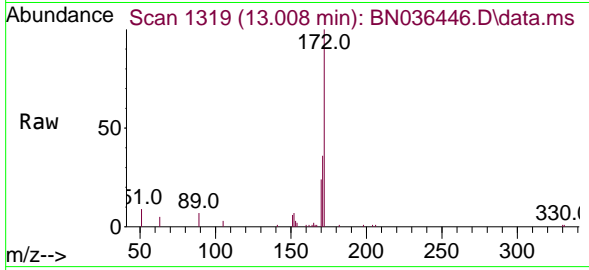




#15
 2-Fluorobiphenyl
 Concen: 0.384 ng
 RT: 13.008 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

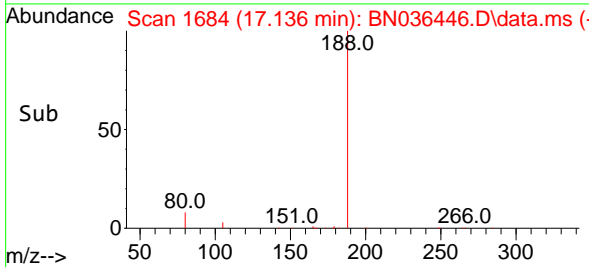
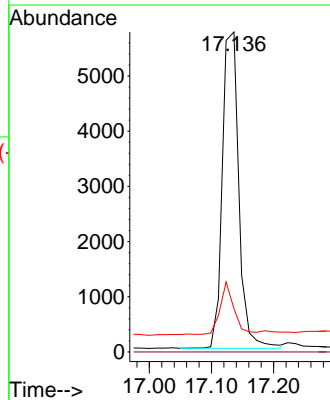
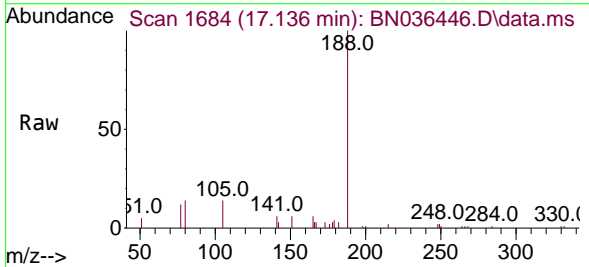
Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-660-662

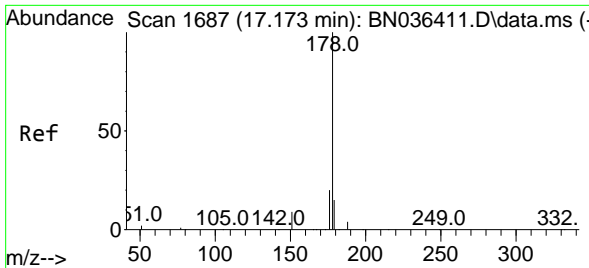
Tgt Ion	Resp	Lower	Upper
172	6874		
171	36.3	29.6	44.4
170	24.5	19.8	29.6



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 1684
 Delta R.T. -0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Tgt Ion	Resp	Lower	Upper
188	10555		
94	0.0	0.0	0.0
80	13.6	9.8	14.6



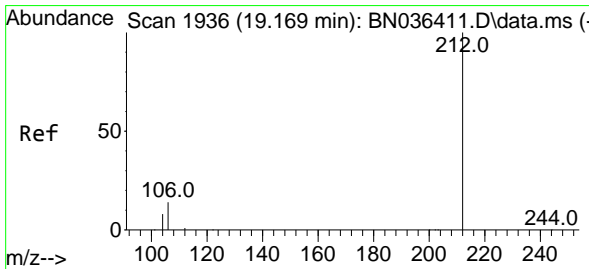
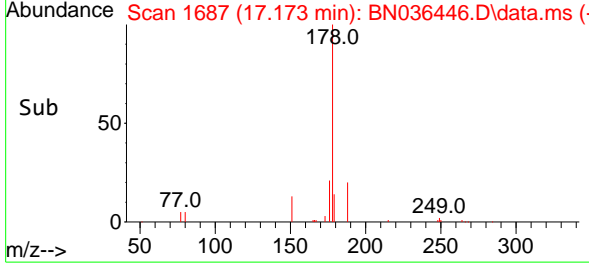
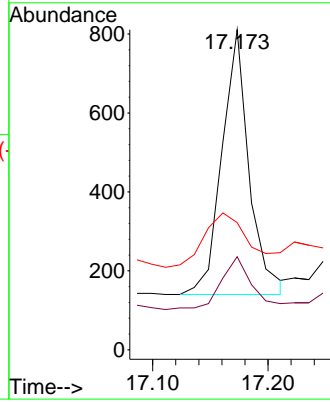
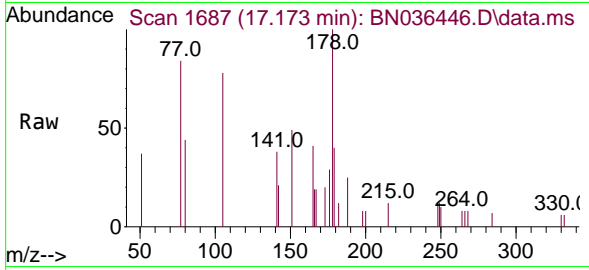


#25
Phenanthrene
 Concen: 0.036 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Instrument :
 BNA_N
ClientSampleId :
 BP-VPB-192-GW-660-662

Tgt Ion:178 Resp: 1097

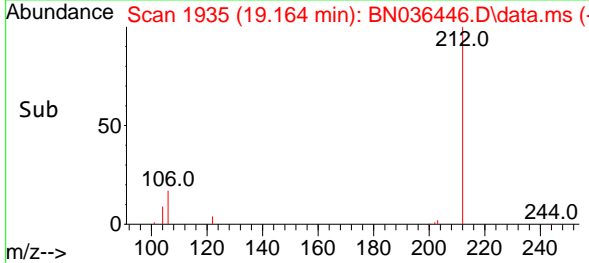
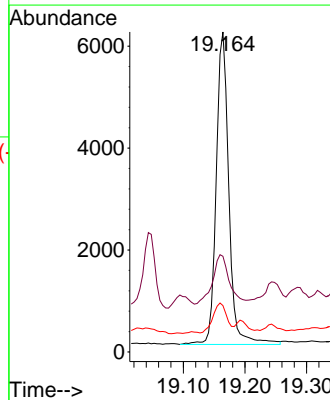
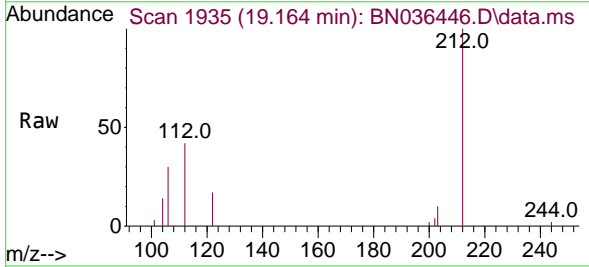
Ion	Ratio	Lower	Upper
178	100		
176	22.9	15.7	23.5
179	32.3	12.4	18.6

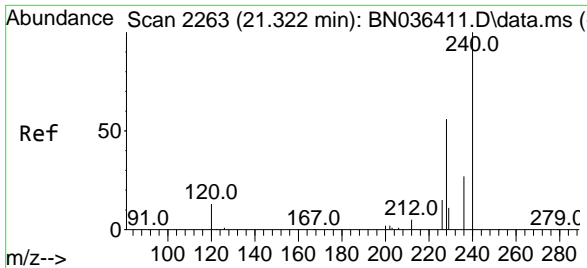


#27
Fluoranthene-d10
 Concen: 0.297 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Tgt Ion:212 Resp: 8713

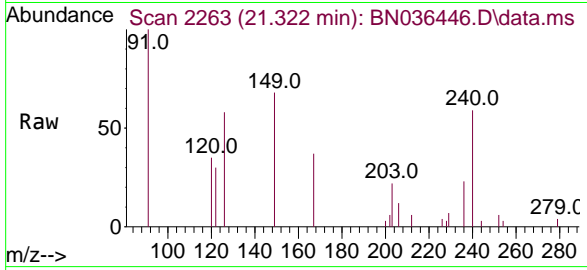
Ion	Ratio	Lower	Upper
212	100		
106	20.8	11.5	17.3
104	10.6	7.1	10.7





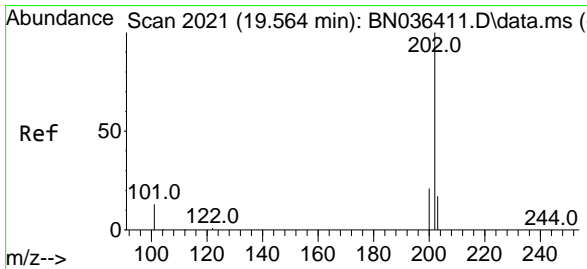
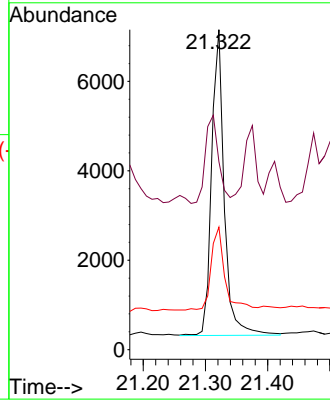
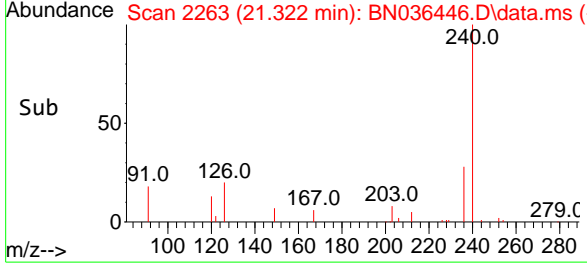
#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-660-662

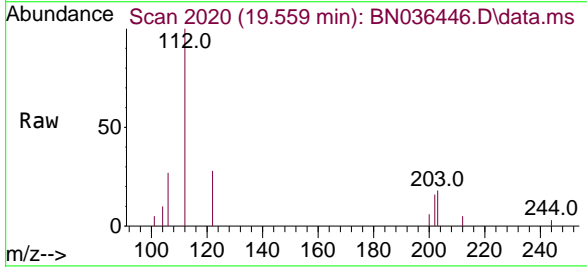


Tgt Ion:240 Resp: 9596

Ion	Ratio	Lower	Upper
240	100		
120	58.8	13.3	19.9#
236	38.3	23.0	34.6#

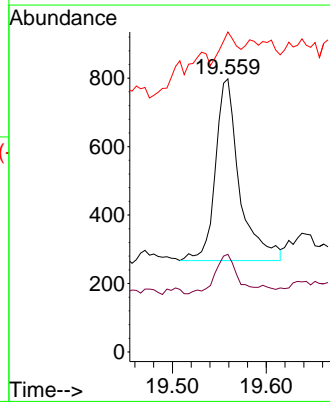
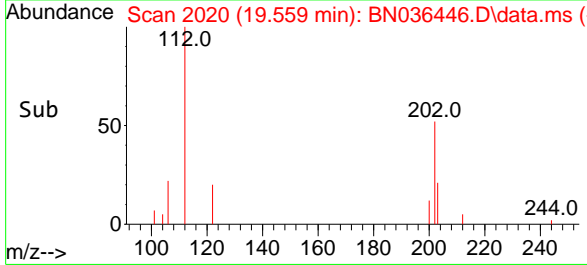


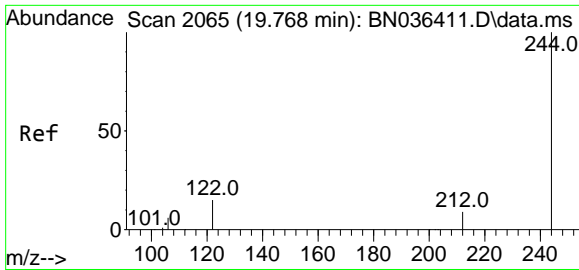
#30
 Pyrene
 Concen: 0.026 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48



Tgt Ion:202 Resp: 945

Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.9	25.3
203	12.3	13.9	20.9#

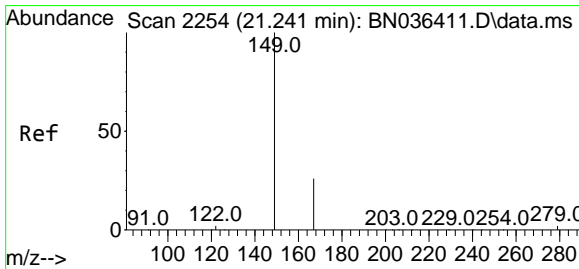
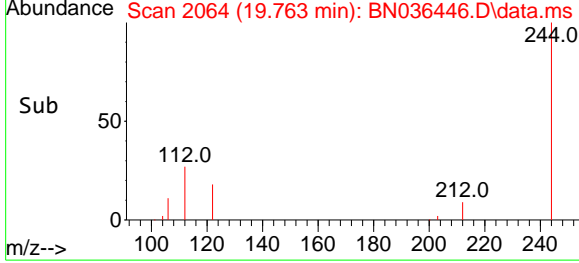
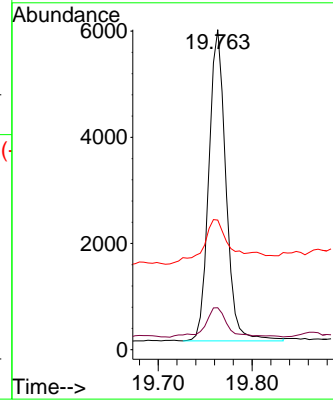
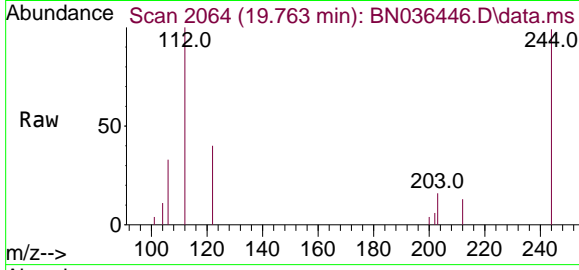




#31
 Terphenyl-d14
 Concen: 0.362 ng
 RT: 19.763 min Scan# 2064
 Delta R.T. -0.005 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

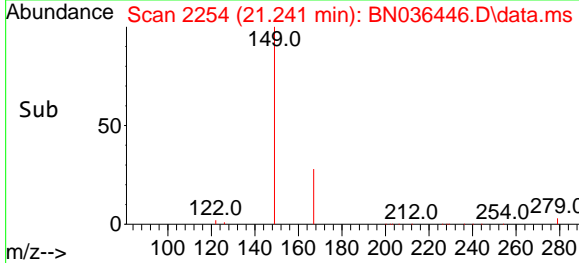
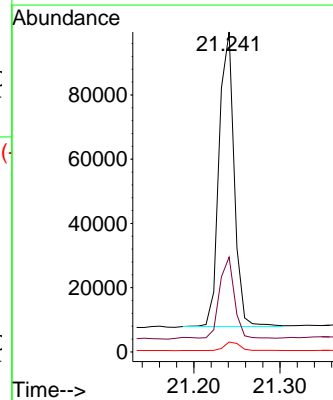
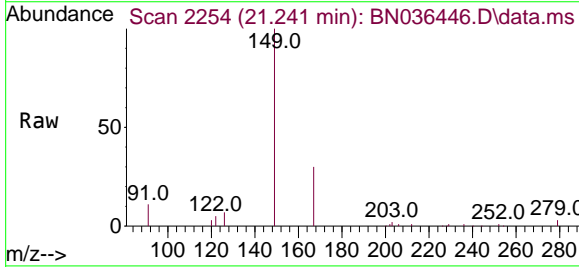
Instrument :
 BNA_N
ClientSampleId :
 BP-VPB-192-GW-660-662

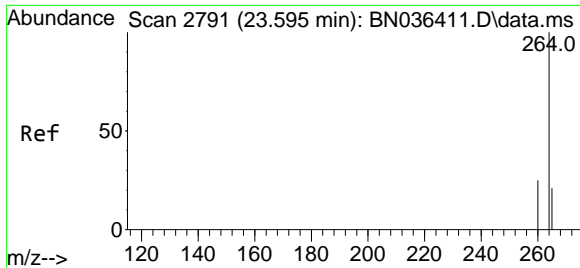
Tgt Ion	Resp	Ion Ratio	Lower	Upper
244	7417	100		
212		13.1	8.1	12.1#
122		40.5	12.8	19.2#



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 5.660 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. -0.000 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

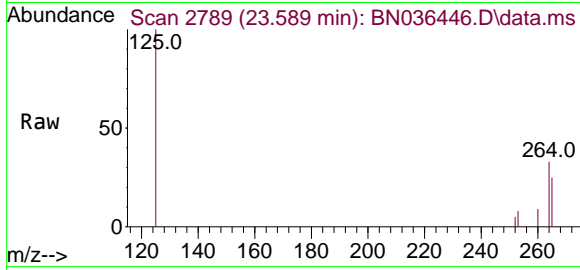
Tgt Ion	Resp	Ion Ratio	Lower	Upper
149	111354	100		
167		26.7	21.2	31.8
279		2.9	2.7	4.1





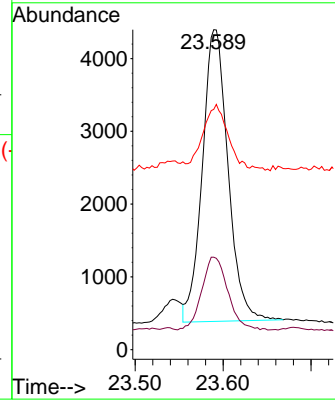
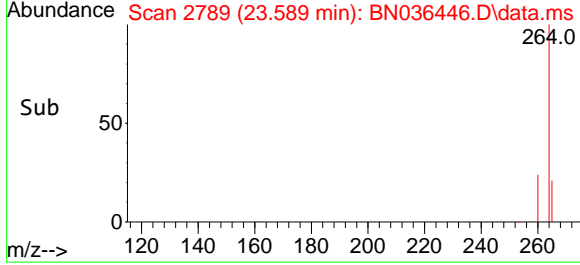
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.589 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036446.D
 Acq: 12 Feb 2025 18:48

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-GW-660-662



Tgt Ion:264 Resp: 8144

Ion	Ratio	Lower	Upper
264	100		
260	28.9	20.9	31.3
265	75.1	60.7	91.1



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CALIBRATION SUMMARY

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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN021025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Feb 11 01:17:14 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036409.D 0.2 =BN036410.D 0.4 =BN036411.D 0.8 =BN036412.D 1.6 =BN036413.D 3.2 =BN036414.D 5.0 =BN036415.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	0.555	0.437	0.433	0.414	0.411	0.433	0.381	0.438	12.66
3) n-Nitrosodimet...	0.906	0.779	0.764	0.724	0.708	0.769	0.670	0.760	9.90
4) S 2-Fluorophenol	1.009	0.954	0.936	0.920	0.914	0.999	0.885	0.945	4.80
5) S Phenol-d6	1.134	1.007	1.032	1.062	1.099	1.267	1.164	1.109	8.00
6) bis(2-Chloroet...	1.382	1.070	1.086	1.129	1.120	1.225	1.107	1.160	9.48
7) I Naphthalene-d8	-----ISTD-----								
8) S Nitrobenzene-d5	0.500	0.363	0.365	0.370	0.367	0.417	0.381	0.395	12.70
9) Naphthalene	1.400	1.141	1.116	1.088	1.075	1.186	1.073	1.154	10.01
10) Hexachlorobuta...	0.319	0.293	0.283	0.272	0.264	0.282	0.253	0.281	7.67
11) SURR2-Methylnaphth...	0.647	0.583	0.602	0.588	0.597	0.668	0.618	0.615	5.19
12) 2-Methylnaphth...	0.833	0.712	0.738	0.721	0.726	0.816	0.750	0.757	6.40
13) I Acenaphthene-d10	-----ISTD-----								
14) S 2,4,6-Tribromo...	0.196	0.181	0.186	0.184	0.195	0.226	0.219	0.198	8.90
15) S 2-Fluorobiphenyl	1.409	1.390	1.377	1.491	1.564	1.738	1.558	1.504	8.57
16) Acenaphthylene	1.807	1.667	1.692	1.683	1.734	1.964	1.820	1.767	5.98
17) Acenaphthene	1.245	1.125	1.146	1.128	1.175	1.273	1.169	1.180	4.89
18) Fluorene	1.696	1.630	1.661	1.627	1.669	1.829	1.646	1.680	4.17
19) I Phenanthrene-d10	-----ISTD-----								
20) 4,6-Dinitro-2-...	0.071	0.067	0.069	0.074	0.084	0.107		0.078	19.60
21) 4-Bromophenyl-...	0.243	0.227	0.231	0.232	0.236	0.264	0.238	0.239	5.15
22) Hexachlorobenzene	0.305	0.296	0.284	0.287	0.289	0.317	0.285	0.295	4.11
23) Atrazine	0.196	0.190	0.187	0.186	0.194	0.229	0.213	0.199	8.00
24) Pentachlorophenol	0.140	0.125	0.122	0.122	0.134	0.170	0.167	0.140	14.74
25) Phenanthrene	1.233	1.090	1.095	1.112	1.138	1.273	1.153	1.156	6.12
26) Anthracene	0.990	0.933	0.967	0.978	1.015	1.167	1.088	1.020	7.92
27) SURRFluoranthene-d10	1.109	1.043	1.063	1.059	1.098	1.258	1.156	1.112	6.70
28) Fluoranthene	1.441	1.323	1.353	1.356	1.404	1.607	1.461	1.421	6.76
29) I Chrysene-d12	-----ISTD-----								
30) Pyrene	1.584	1.568	1.534	1.490	1.488	1.629	1.492	1.541	3.59
31) S Terphenyl-d14	0.860	0.847	0.852	0.829	0.834	0.913	0.843	0.854	3.27
32) Benzo(a)anthra...	1.257	1.276	1.293	1.255	1.300	1.471	1.362	1.316	5.86
33) Chrysene	1.449	1.456	1.360	1.414	1.404	1.527	1.366	1.425	4.08
34) Bis(2-ethylhex...	0.902	0.875	0.777	0.745	0.761	0.861	0.819	0.820	7.45
35) I Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN021025.M

36)	Indeno(1,2,3-c...	1.182	1.289	1.378	1.390	1.446	1.630	1.471	1.398	10.13
37)	Benzo(b)fluora...	1.174	1.220	1.260	1.290	1.333	1.529	1.416	1.317	9.24
38)	Benzo(k)fluora...	1.258	1.253	1.363	1.326	1.347	1.532	1.413	1.356	7.08
39) C	Benzo(a)pyrene	1.091	1.081	1.102	1.114	1.145	1.309	1.206	1.150	7.12
40)	Dibenzo(a,h)an...	0.906	1.021	1.075	1.087	1.154	1.304	1.176	1.103	11.40
41)	Benzo(g,h,i)pe...	1.140	1.212	1.254	1.230	1.269	1.400	1.249	1.250	6.27

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036409.D
 Acq On : 10 Feb 2025 12:25
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Feb 11 00:34:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

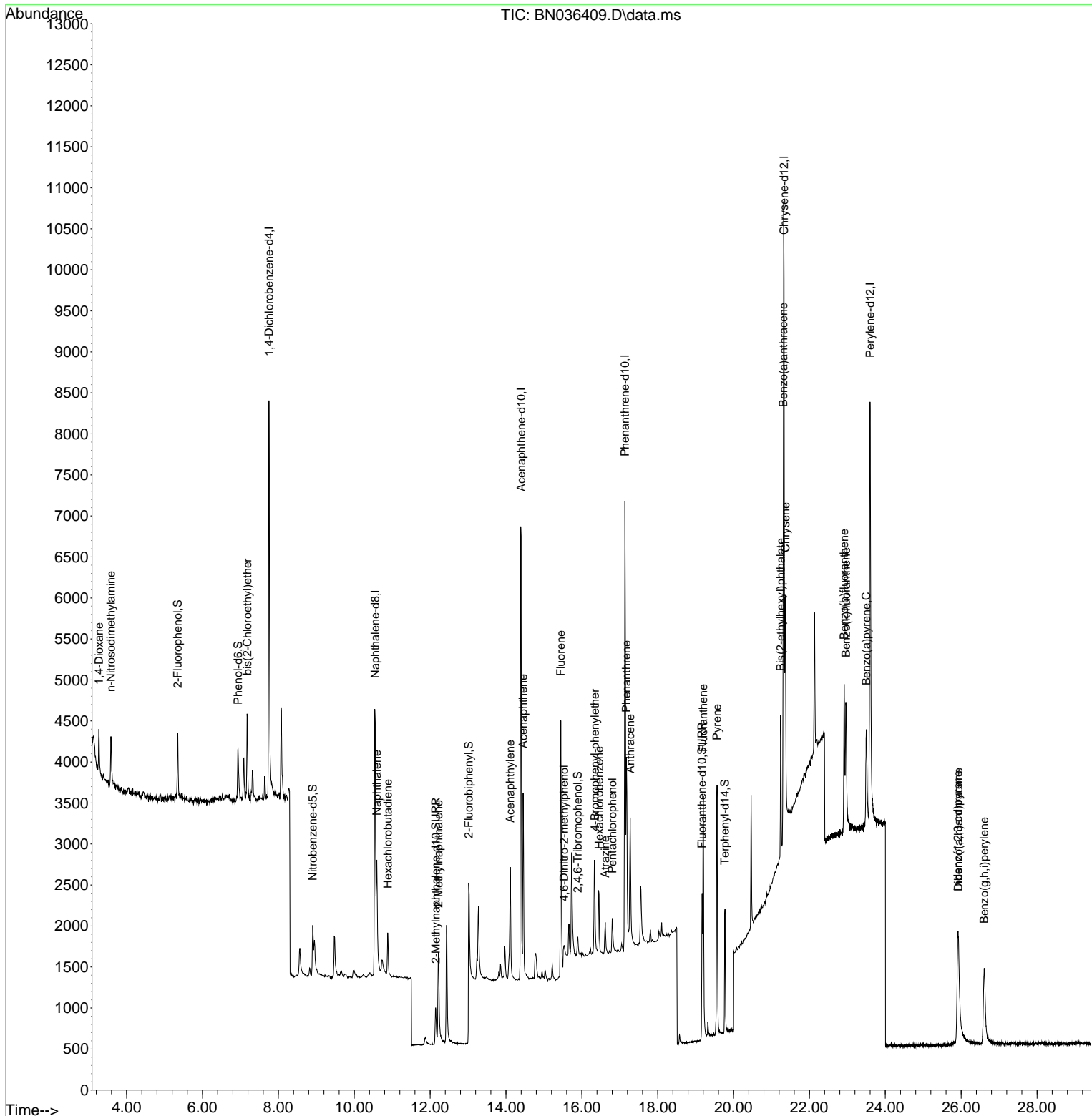
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2370	0.400 ng	0.00	
7) Naphthalene-d8	10.552	136	5687	0.400 ng	# 0.01	
13) Acenaphthene-d10	14.398	164	3837	0.400 ng	0.01	
19) Phenanthrene-d10	17.136	188	8539	0.400 ng	0.00	
29) Chrysene-d12	21.331	240	8027	0.400 ng	# 0.00	
35) Perylene-d12	23.598	264	8068	0.400 ng	0.00	
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	598	0.099 ng	0.00	
5) Phenol-d6	6.937	99	672	0.095 ng	0.00	
8) Nitrobenzene-d5	8.907	82	711	0.134 ng	0.00	
11) 2-Methylnaphthalene-d10	12.146	152	920	0.118 ng	0.00	
14) 2,4,6-Tribromophenol	15.895	330	188	0.080 ng	0.01	
15) 2-Fluorobiphenyl	13.019	172	1352	0.083 ng	0.00	
27) Fluoranthene-d10	19.169	212	2368	0.108 ng	0.00	
31) Terphenyl-d14	19.773	244	1725	0.104 ng	0.00	
Target Compounds						
2) 1,4-Dioxane	3.268	88	329	0.126 ng		93
3) n-Nitrosodimethylamine	3.586	42	537	0.114 ng	#	96
6) bis(2-Chloroethyl)ether	7.183	93	819	0.140 ng		99
9) Naphthalene	10.594	128	1990	0.123 ng	#	91
10) Hexachlorobutadiene	10.883	225	454	0.089 ng	#	99
12) 2-Methylnaphthalene	12.217	142	1185	0.116 ng		96
16) Acenaphthylene	14.110	152	1733	0.098 ng		99
17) Acenaphthene	14.452	154	1194	0.098 ng		98
18) Fluorene	15.446	166	1627	0.104 ng		99
20) 4,6-Dinitro-2-methylph...	15.535	198	151	0.079 ng	#	36
21) 4-Bromophenyl-phenylether	16.342	248	518	0.089 ng	#	81
22) Hexachlorobenzene	16.453	284	651	0.085 ng		99
23) Atrazine	16.615	200	419	0.097 ng	#	85
24) Pentachlorophenol	16.801	266	298	0.089 ng		97
25) Phenanthrene	17.173	178	2633	0.105 ng		100
26) Anthracene	17.273	178	2113	0.093 ng		96
28) Fluoranthene	19.201	202	3077	0.104 ng		99
30) Pyrene	19.564	202	3179	0.099 ng		99
32) Benzo(a)anthracene	21.313	228	2523	0.088 ng		96
33) Chrysene	21.366	228	2908	0.099 ng		97
34) Bis(2-ethylhexyl)phtha...	21.241	149	1810	0.114 ng		99
36) Indeno(1,2,3-cd)pyrene	25.911	276	2385	0.075 ng		98
37) Benzo(b)fluoranthene	22.917	252	2367	0.083 ng	#	67
38) Benzo(k)fluoranthene	22.961	252	2537	0.087 ng	#	65
39) Benzo(a)pyrene	23.499	252	2200	0.089 ng	#	53
40) Dibenzo(a,h)anthracene	25.928	278	1827	0.073 ng	#	62
41) Benzo(g,h,i)perylene	26.607	276	2299	0.083 ng	#	83

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

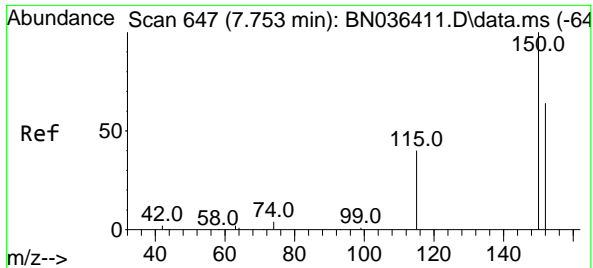
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 Acq On : 10 Feb 2025 12:25
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Feb 11 00:34:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration



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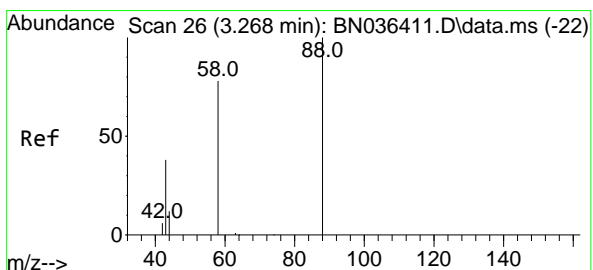
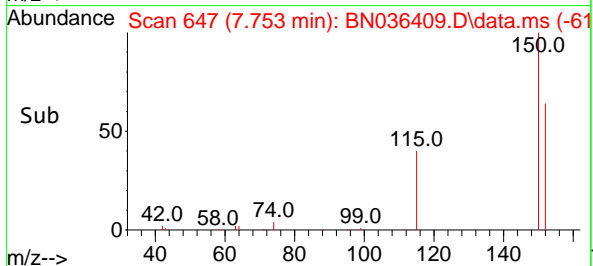
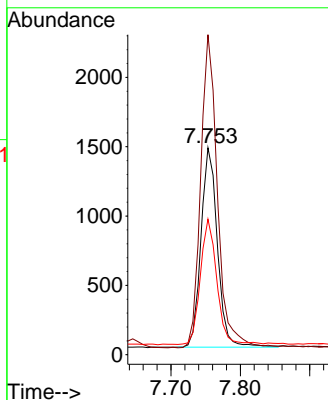
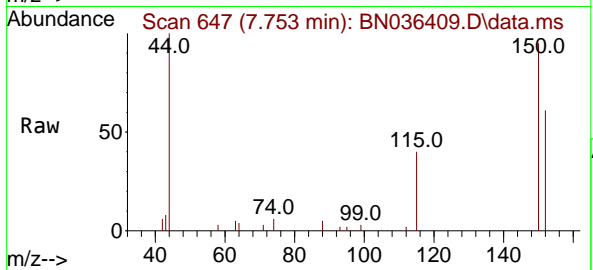


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion:152 Resp: 2370

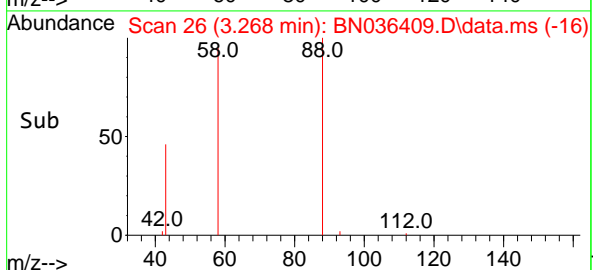
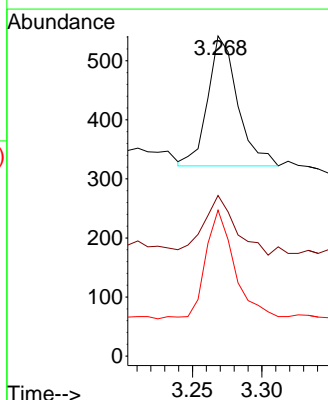
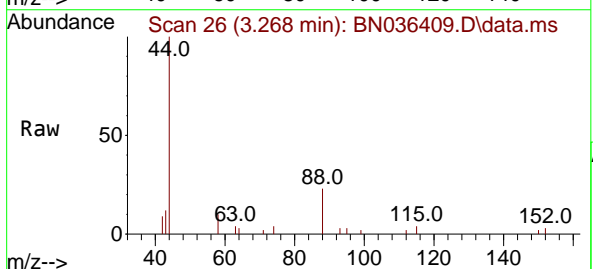
Ion	Ratio	Lower	Upper
152	100		
150	154.7	123.7	185.5
115	65.5	52.5	78.7

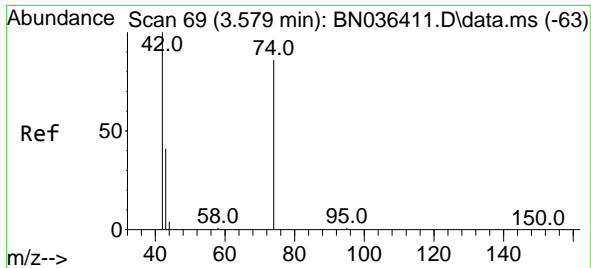


#2
 1,4-Dioxane
 Concen: 0.126 ng
 RT: 3.268 min Scan# 26
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion: 88 Resp: 329

Ion	Ratio	Lower	Upper
88	100		
43	48.9	33.7	50.5
58	81.8	68.9	103.3



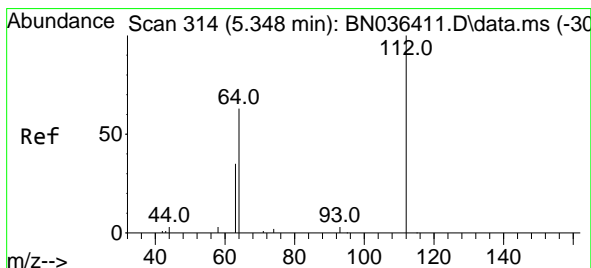
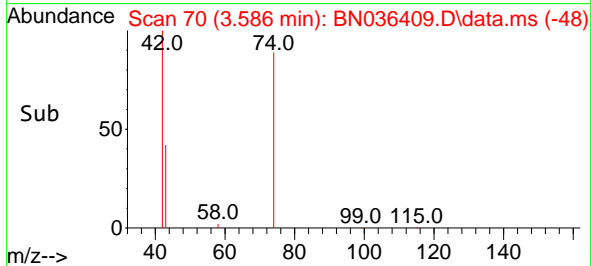
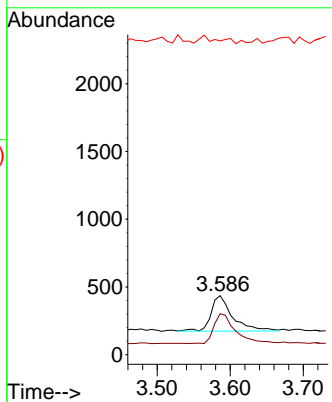
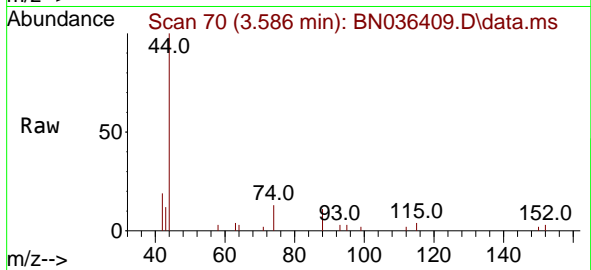


#3
 n-Nitrosodimethylamine
 Concen: 0.114 ng
 RT: 3.586 min Scan# 70
 Delta R.T. 0.007 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion: 42 Resp: 537

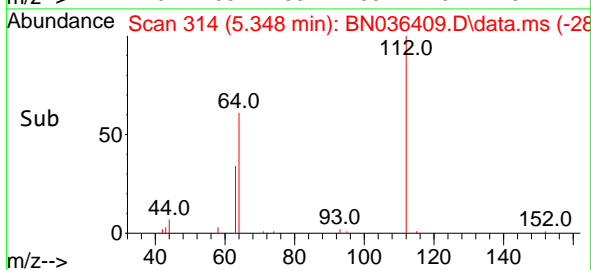
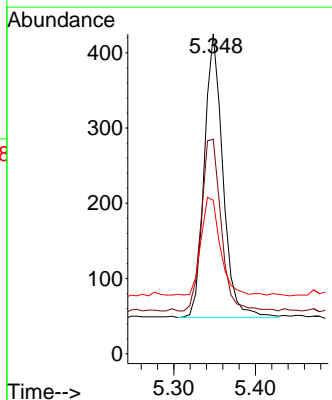
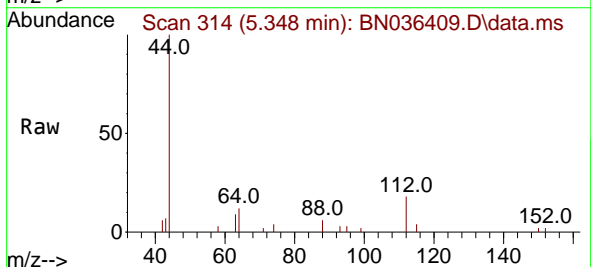
Ion	Ratio	Lower	Upper
42	100		
74	87.0	71.8	107.6
44	5.4	7.8	11.6#

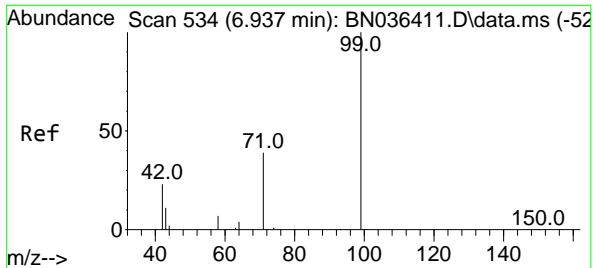


#4
 2-Fluorophenol
 Concen: 0.099 ng
 RT: 5.348 min Scan# 314
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion: 112 Resp: 598

Ion	Ratio	Lower	Upper
112	100		
64	64.2	53.4	80.0
63	36.0	30.3	45.5

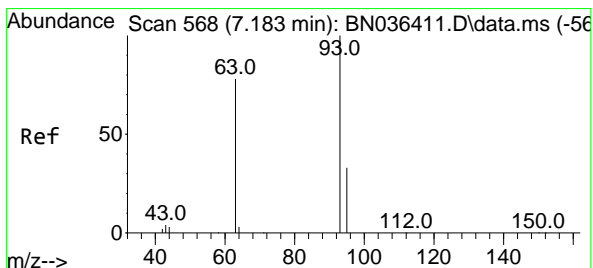
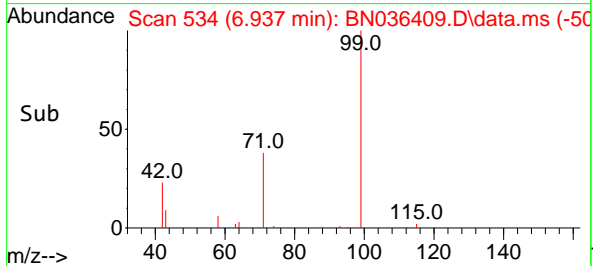
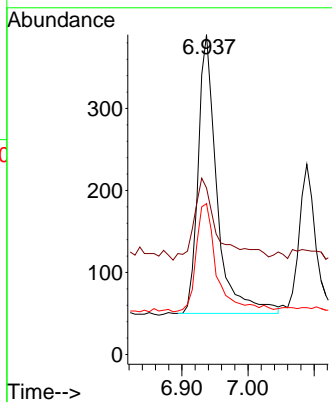
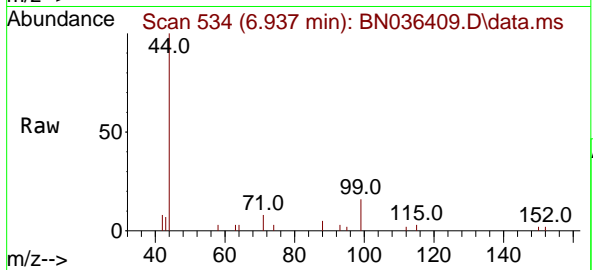




#5
 Phenol-d6
 Concen: 0.095 ng
 RT: 6.937 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

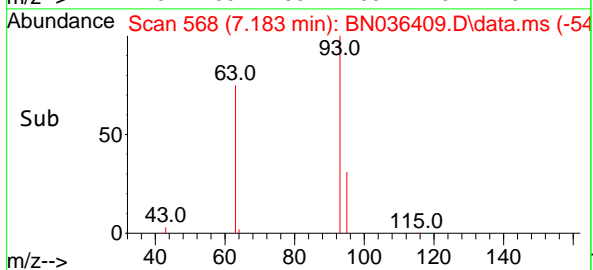
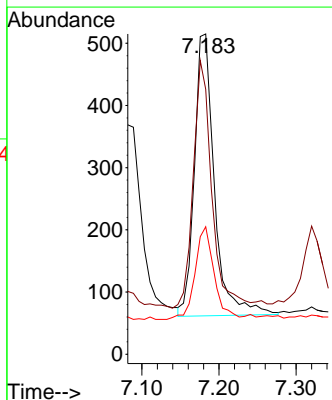
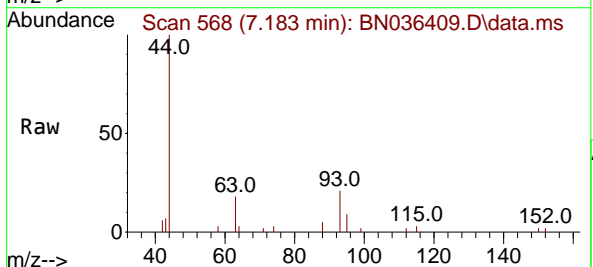
Instrument :
 BNA_N
 ClientSampleId :
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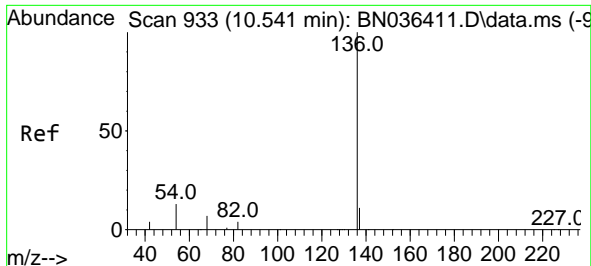
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	672	100		
42	36.8	21.7	32.5#	
71	42.9	32.6	49.0	



#6
 bis(2-Chloroethyl)ether
 Concen: 0.140 ng
 RT: 7.183 min Scan# 568
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	819	100		
63	82.8	66.3	99.5	
95	31.5	26.2	39.4	

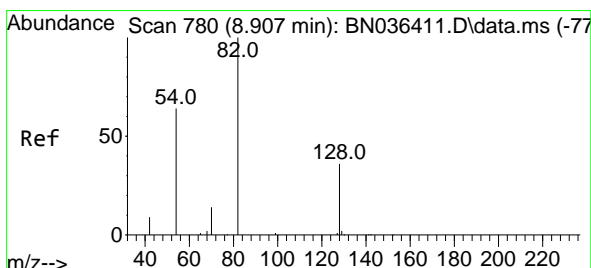
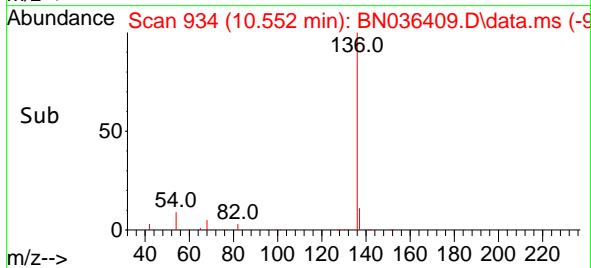
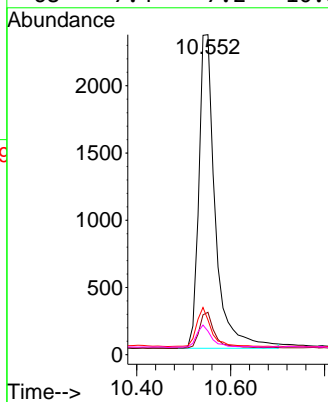
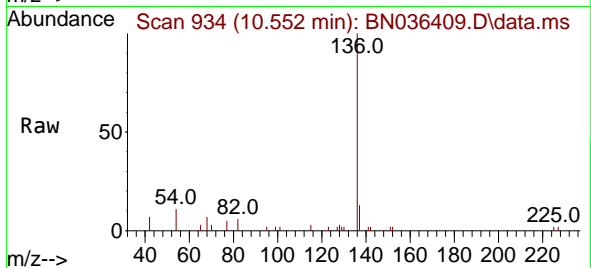




#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.552 min Scan# 911
 Delta R.T. 0.011 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

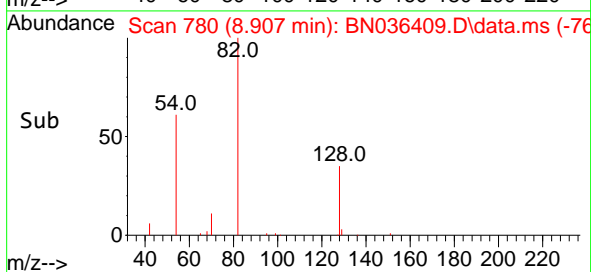
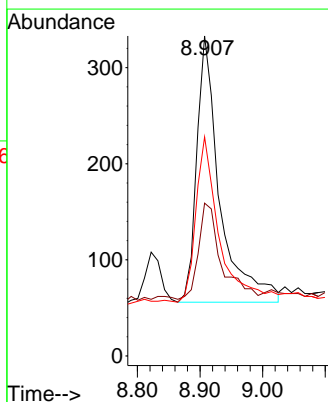
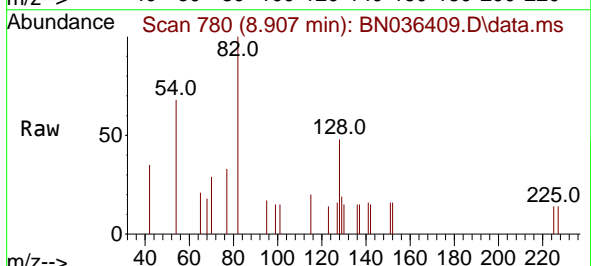
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 ClientSampleId :
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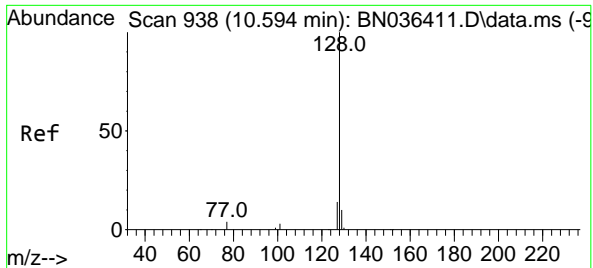
Tgt Ion	Resp	Lower	Upper
136	5687		
136	100		
137	13.3	10.1	15.1
54	10.9	11.8	17.6#
68	7.4	7.2	10.8



#8
 Nitrobenzene-d5
 Concen: 0.134 ng
 RT: 8.907 min Scan# 780
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Lower	Upper
82	711		
82	100		
128	47.7	31.9	47.9
54	68.5	53.1	79.7



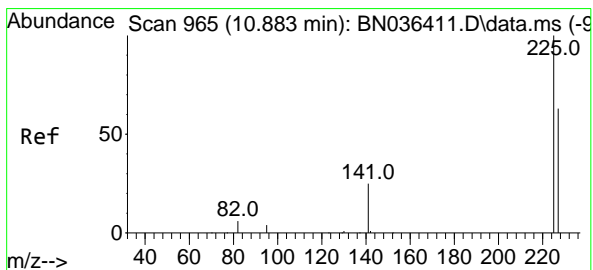
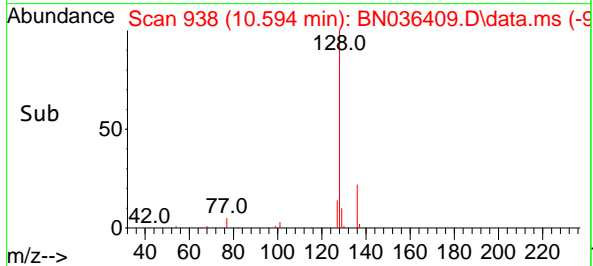
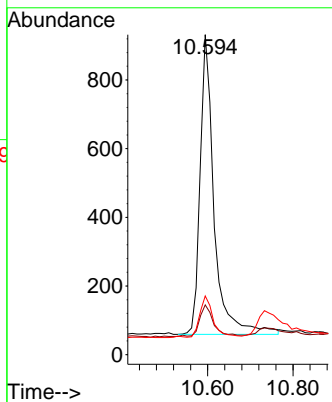
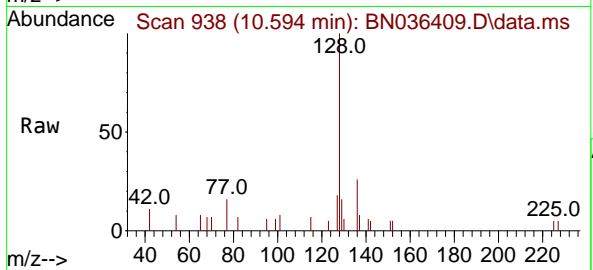


#9
Naphthalene
 Concen: 0.123 ng
 RT: 10.594 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion:128 Resp: 1990

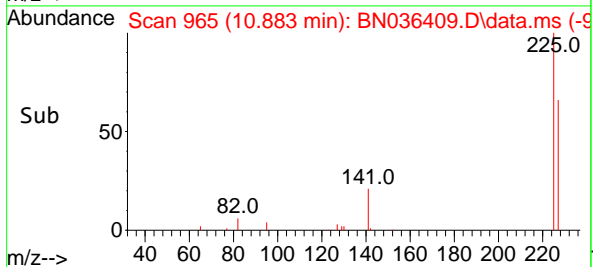
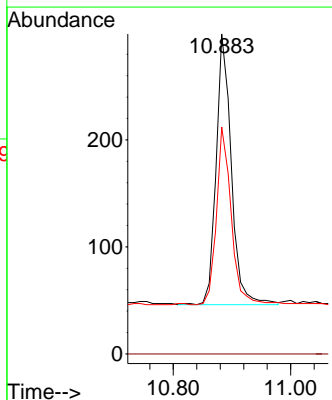
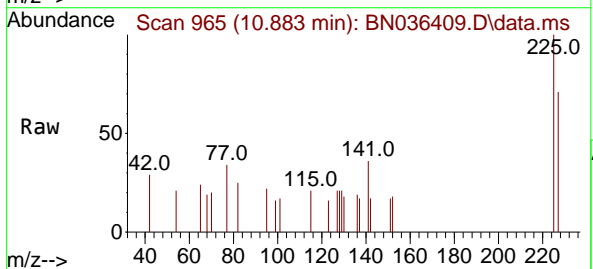
Ion	Ratio	Lower	Upper
128	100		
129	15.6	9.6	14.4#
127	18.3	12.0	18.0#

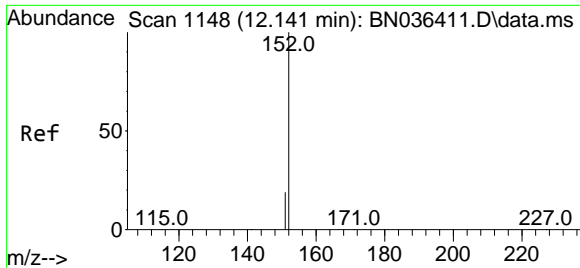


#10
Hexachlorobutadiene
 Concen: 0.089 ng
 RT: 10.883 min Scan# 965
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion:225 Resp: 454

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	50.9	76.3

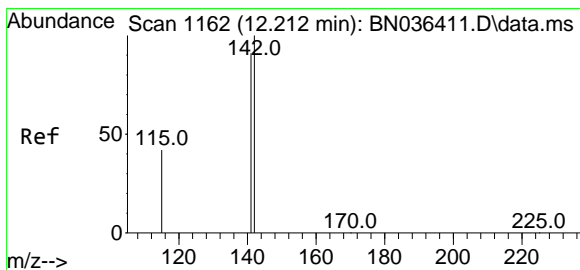
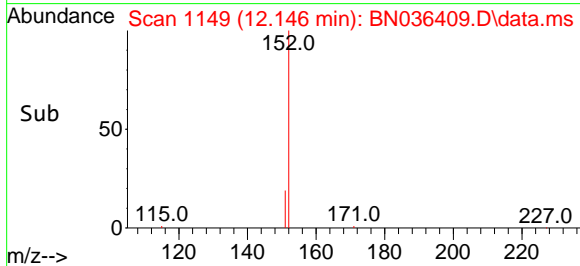
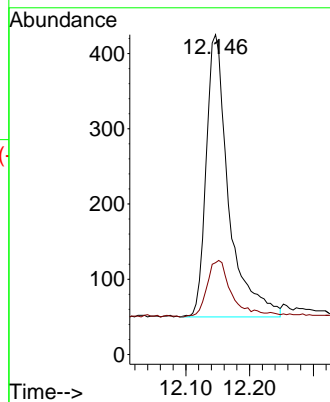
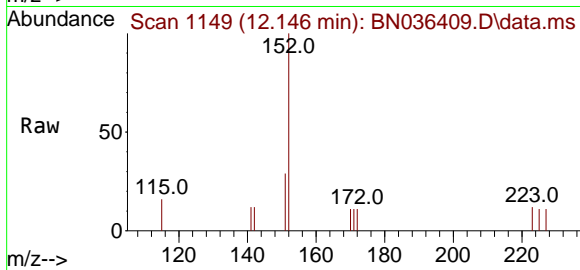




#11
 2-Methylnaphthalene-d10
 Concen: 0.118 ng
 RT: 12.146 min Scan# 1149
 Delta R.T. 0.005 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

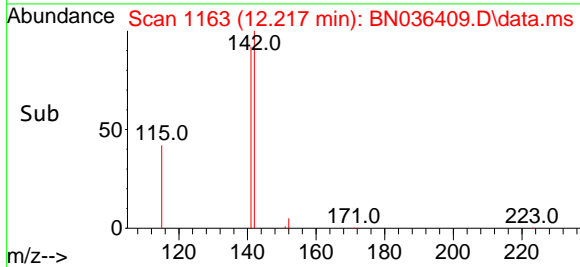
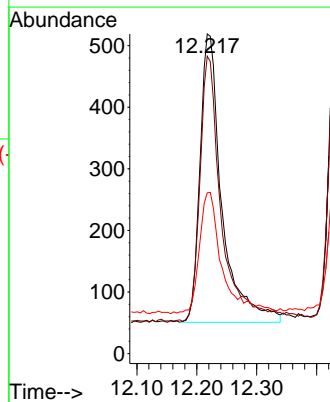
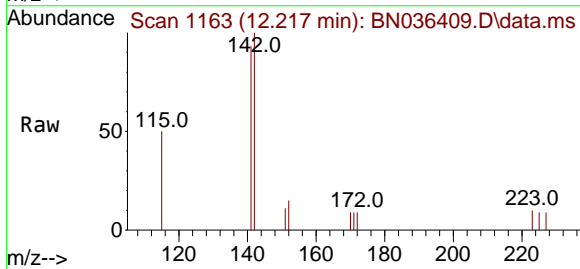
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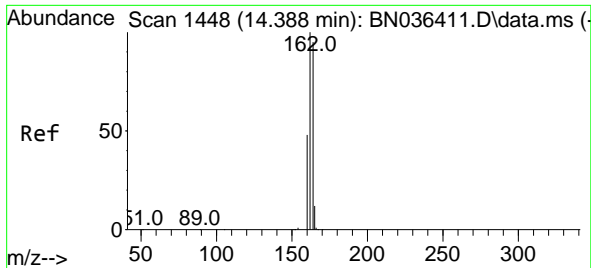
Tgt Ion:152 Resp: 920
 Ion Ratio Lower Upper
 152 100
 151 21.6 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.116 ng
 RT: 12.217 min Scan# 1163
 Delta R.T. 0.005 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion:142 Resp: 1185
 Ion Ratio Lower Upper
 142 100
 141 93.1 72.8 109.2
 115 50.3 35.5 53.3

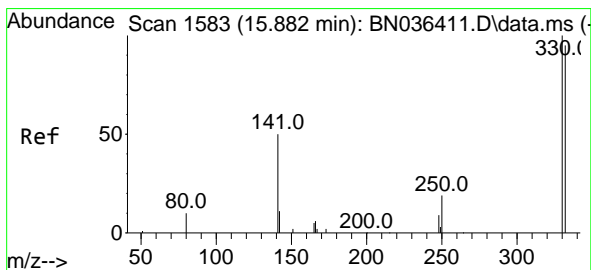
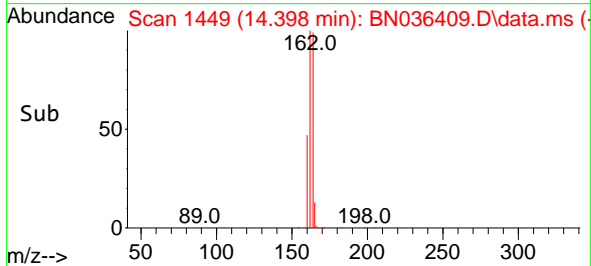
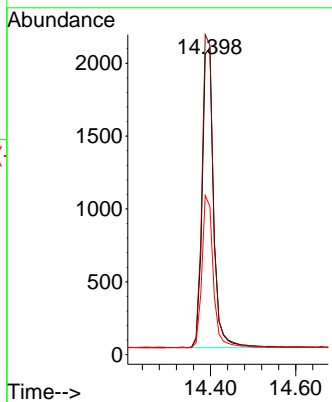
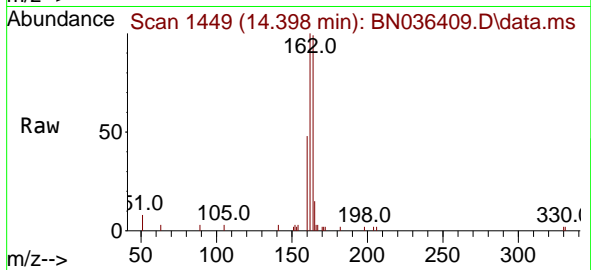




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.398 min Scan# 1449
 Delta R.T. 0.011 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

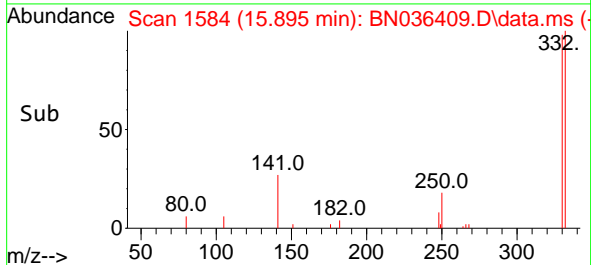
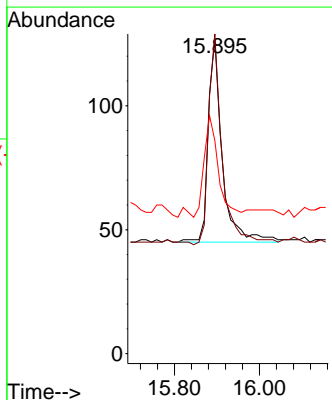
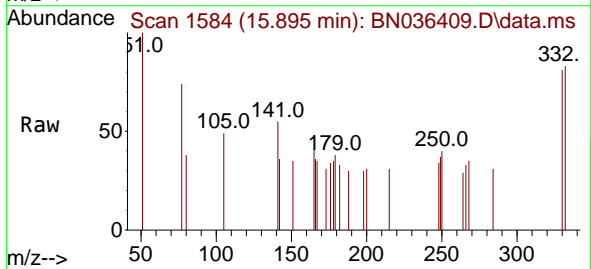
Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

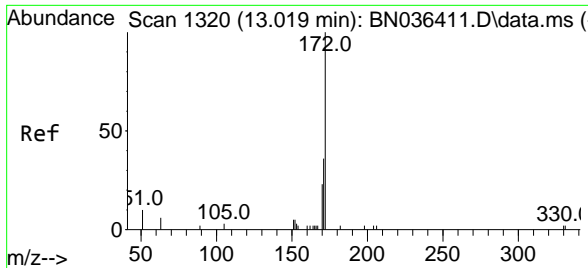
Tgt Ion	Resp	Lower	Upper
164	100		
162	100.8	84.1	126.1
160	48.4	41.4	62.0



#14
 2,4,6-Tribromophenol
 Concen: 0.080 ng
 RT: 15.895 min Scan# 1584
 Delta R.T. 0.012 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Lower	Upper
330	100		
332	101.6	76.6	114.8
141	50.5	37.8	56.8



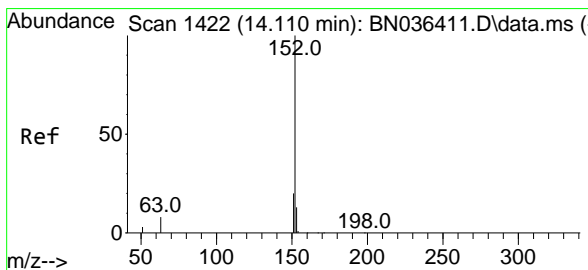
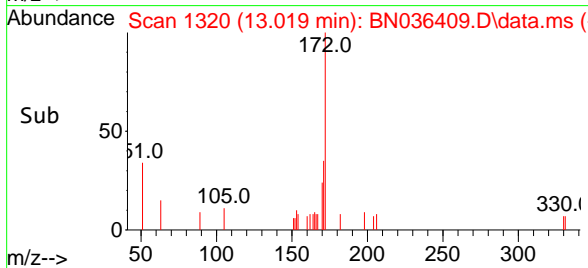
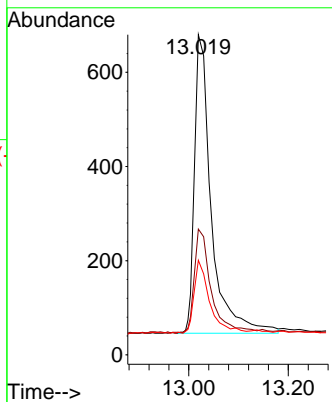
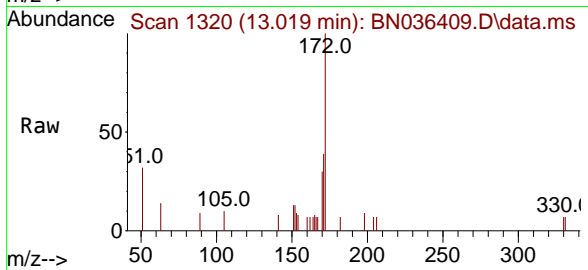


#15
 2-Fluorobiphenyl
 Concen: 0.083 ng
 RT: 13.019 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

Tgt Ion:172 Resp: 1352

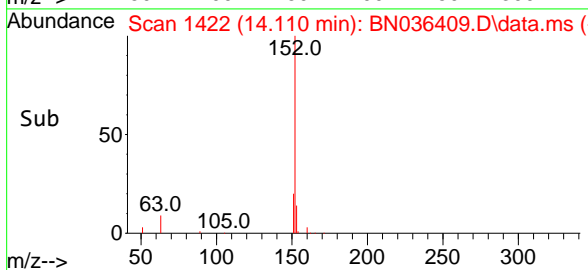
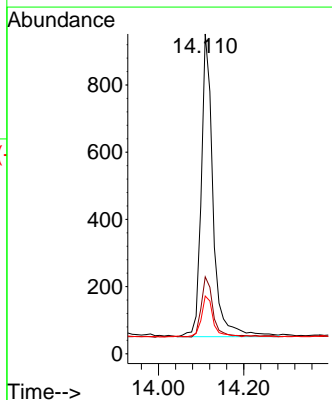
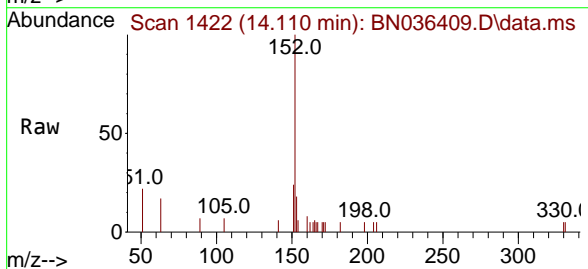
Ion	Ratio	Lower	Upper
172	100		
171	39.3	29.6	44.4
170	29.6	19.8	29.6

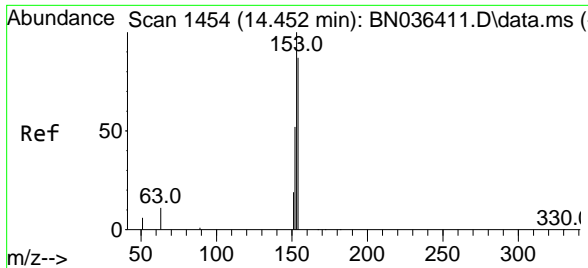


#16
 Acenaphthylene
 Concen: 0.098 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion:152 Resp: 1733

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.8	23.8
153	13.3	10.2	15.2



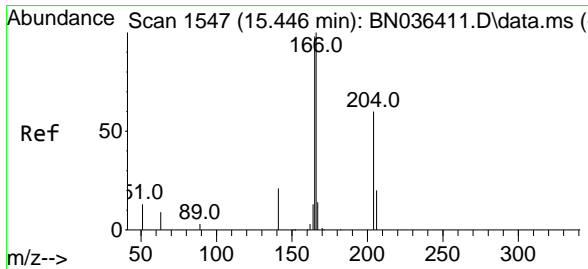
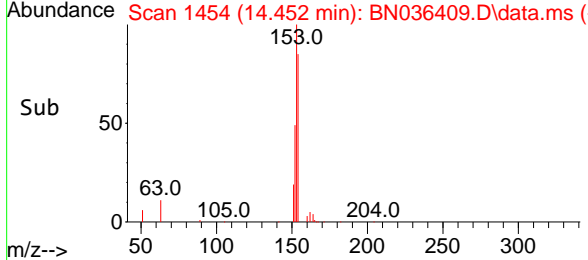
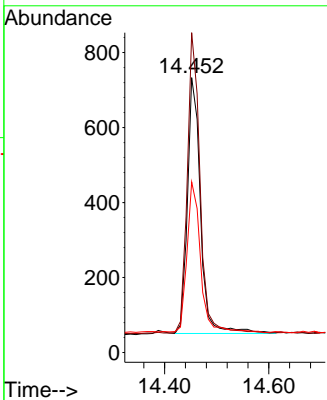
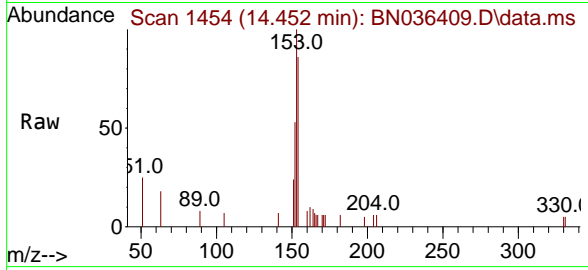


#17
 Acenaphthene
 Concen: 0.098 ng
 RT: 14.452 min Scan# 14
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion:154 Resp: 1194

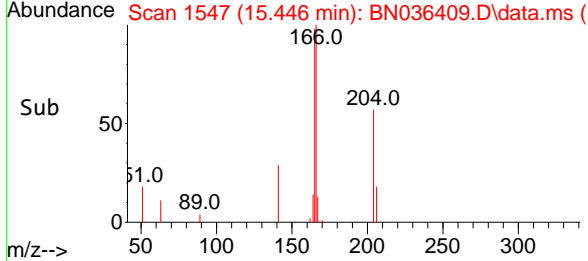
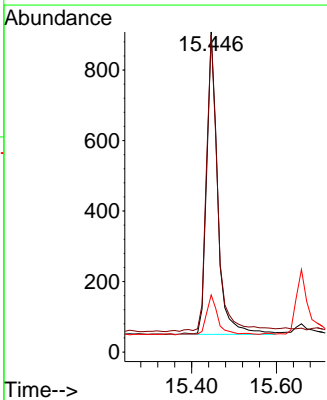
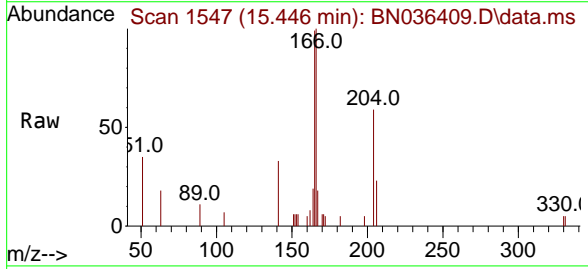
Ion	Ratio	Lower	Upper
154	100		
153	114.2	93.3	139.9
152	61.5	48.8	73.2

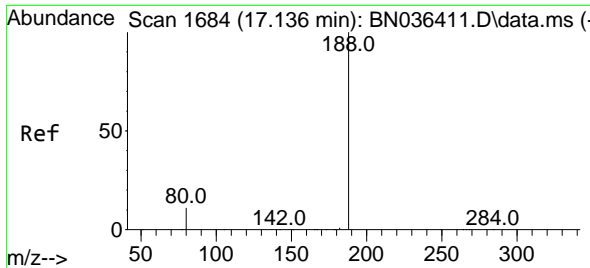


#18
 Fluorene
 Concen: 0.104 ng
 RT: 15.446 min Scan# 1547
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion:166 Resp: 1627

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.5	119.3
167	13.0	10.4	15.6

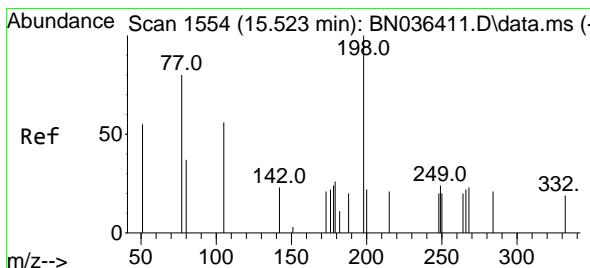
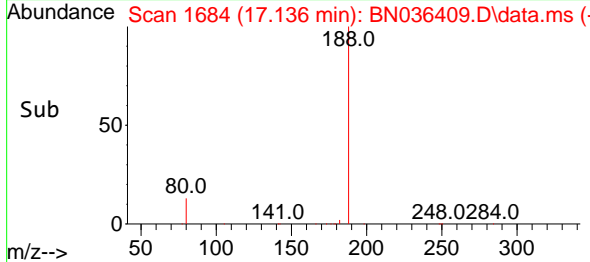
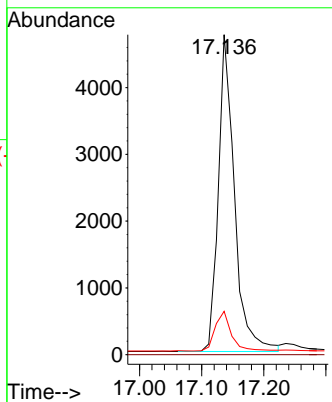
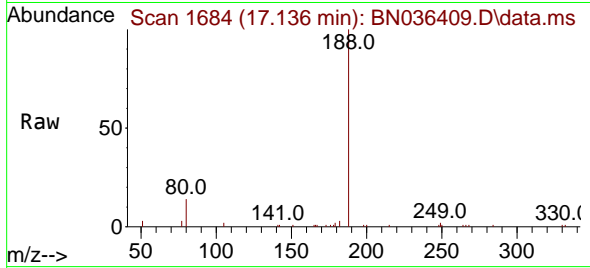




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

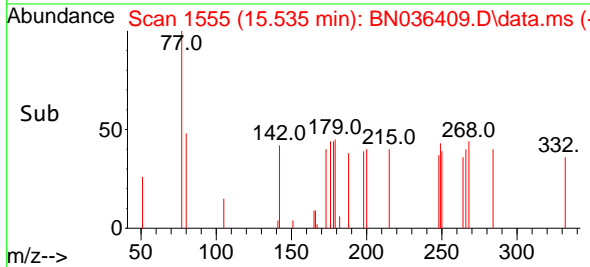
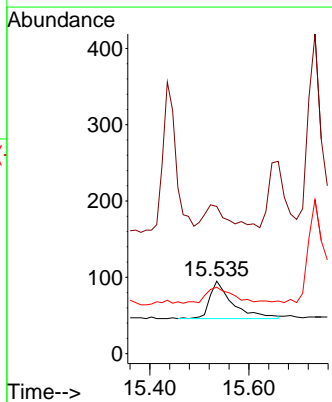
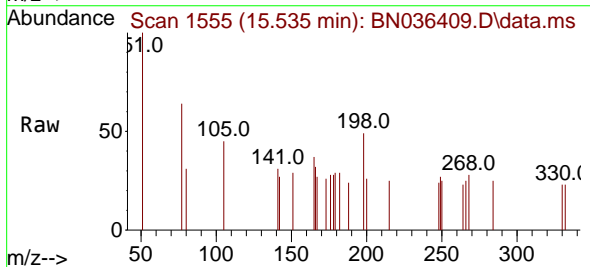
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

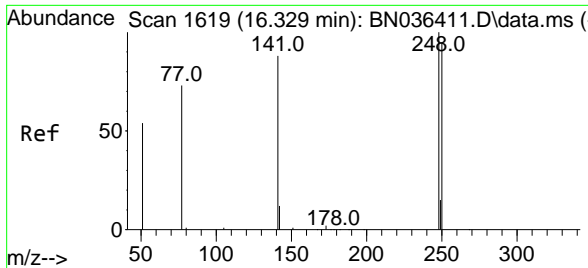
Tgt Ion	Resp	Lower	Upper
188	8539		
94	0.0	0.0	0.0
80	13.6	9.8	14.6



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.079 ng
 RT: 15.535 min Scan# 1555
 Delta R.T. 0.012 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Lower	Upper
198	151		
51	203.2	86.6	129.8#
105	91.6	57.5	86.3#

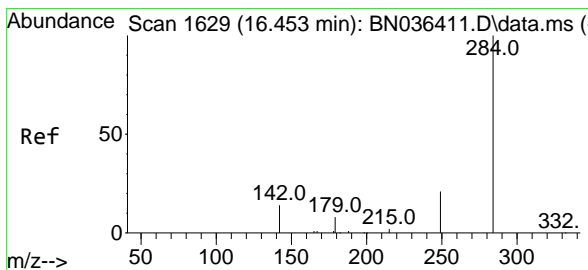
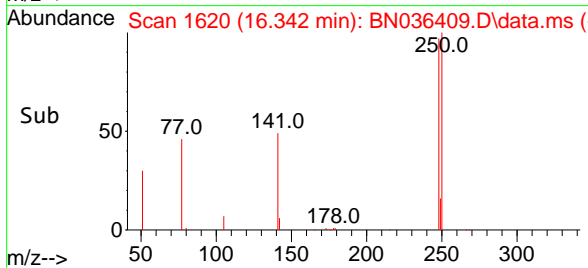
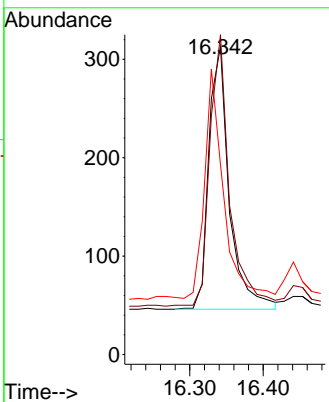
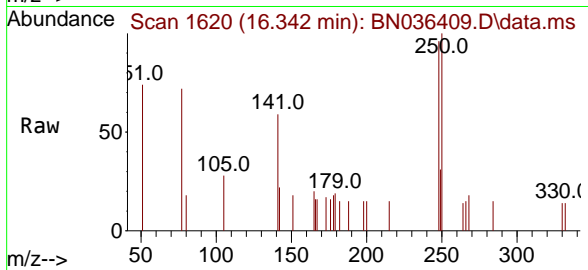




#21
 4-Bromophenyl-phenylether
 Concen: 0.089 ng
 RT: 16.342 min Scan# 1620
 Delta R.T. 0.012 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

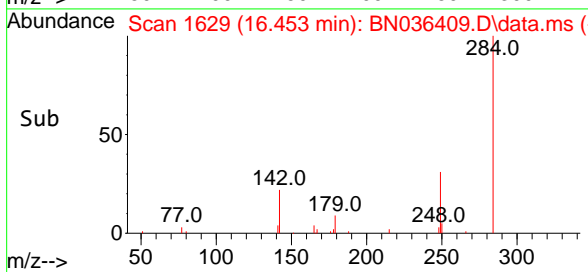
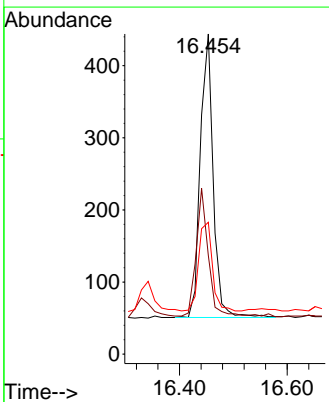
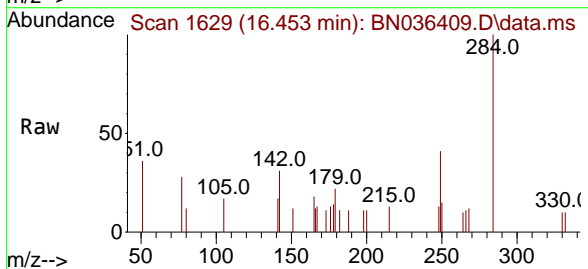
Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

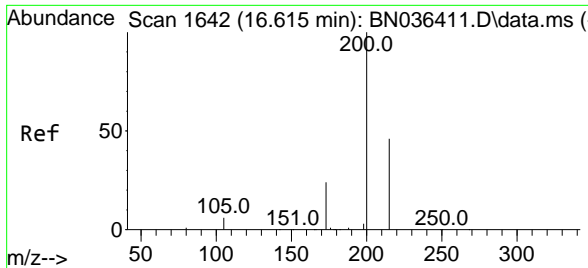
Tgt Ion	Resp	Lower	Upper
248	100		
250	103.8	76.1	114.1
141	61.7	71.7	107.5#



#22
 Hexachlorobenzene
 Concen: 0.085 ng
 RT: 16.453 min Scan# 1629
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Lower	Upper
284	100		
142	41.5	33.4	50.0
249	35.0	28.6	43.0

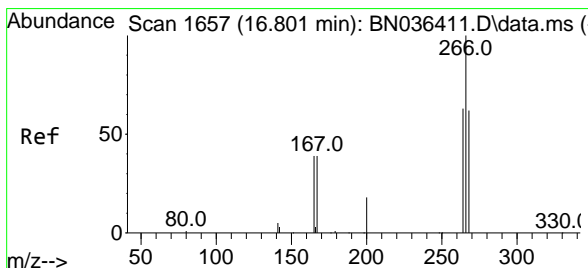
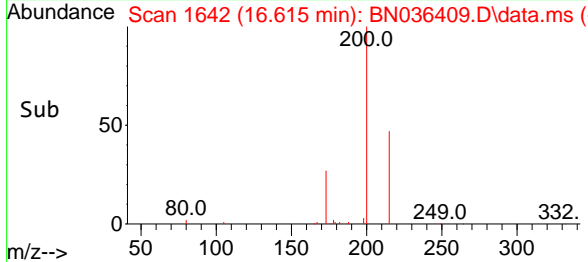
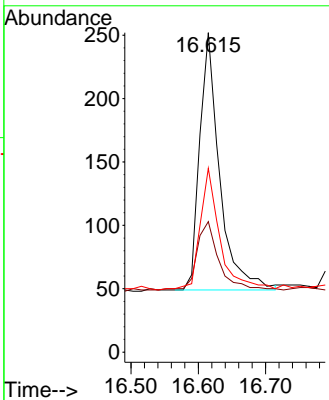
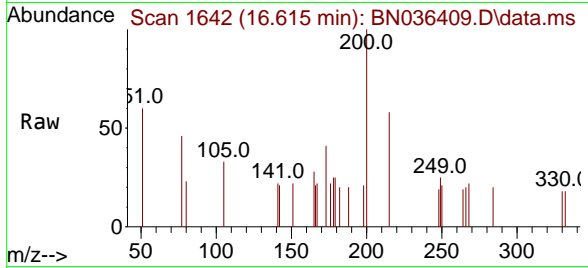




#23
 Atrazine
 Concen: 0.097 ng
 RT: 16.615 min Scan# 1642
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

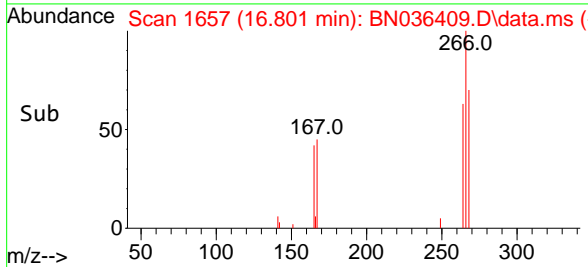
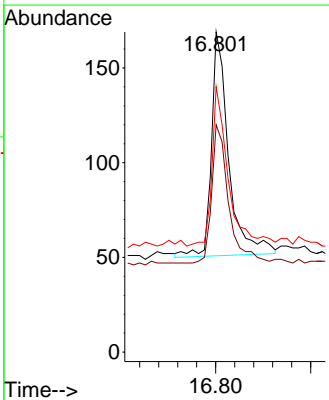
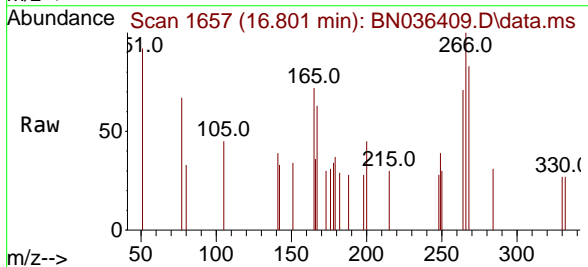
Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

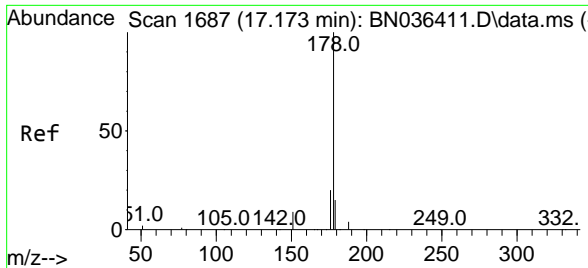
Tgt Ion	Resp	Lower	Upper
200	100		
173	40.9	23.2	34.8#
215	57.5	40.0	60.0



#24
 Pentachlorophenol
 Concen: 0.089 ng
 RT: 16.801 min Scan# 1657
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Lower	Upper
266	100		
264	60.1	50.6	76.0
268	63.1	51.9	77.9

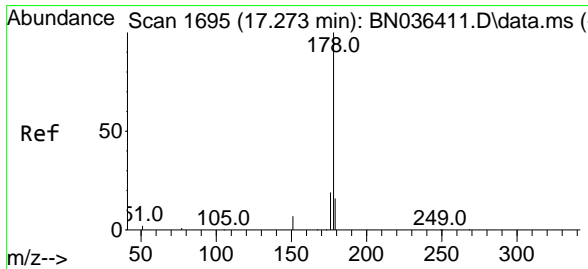
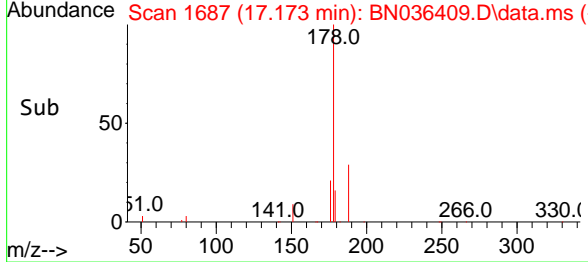
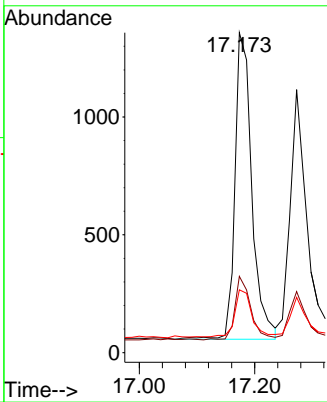
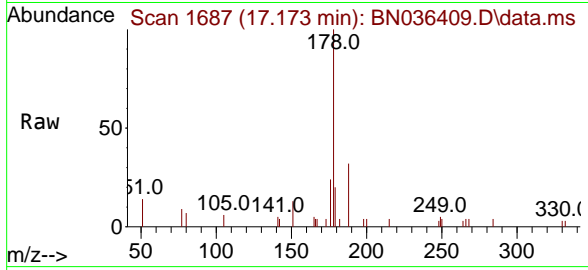




#25
 Phenanthrene
 Concen: 0.105 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

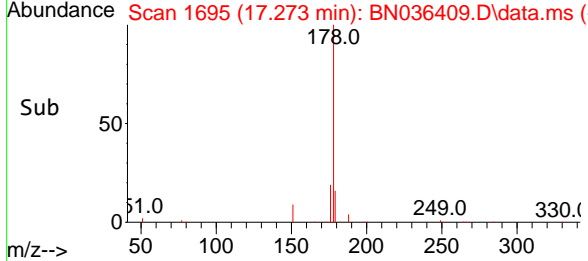
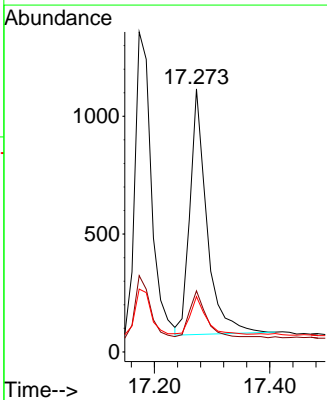
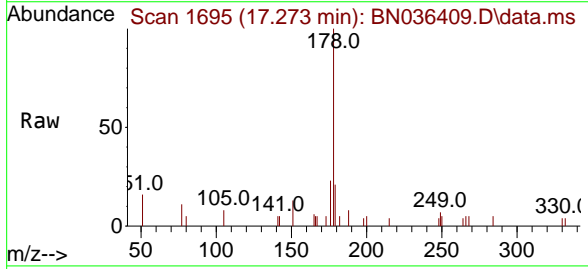
Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

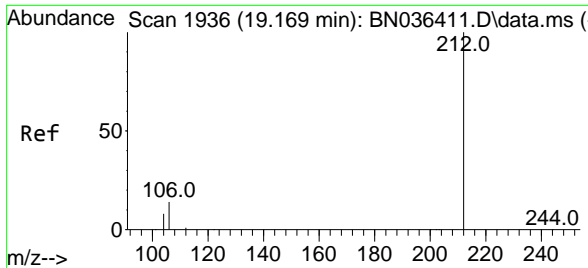
Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	2633	100		
176	19.6	15.7	15.7	23.5
179	15.5	12.4	12.4	18.6



#26
 Anthracene
 Concen: 0.093 ng
 RT: 17.273 min Scan# 1695
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	2113	100		
176	20.8	14.9	14.9	22.3
179	14.6	12.4	12.4	18.6



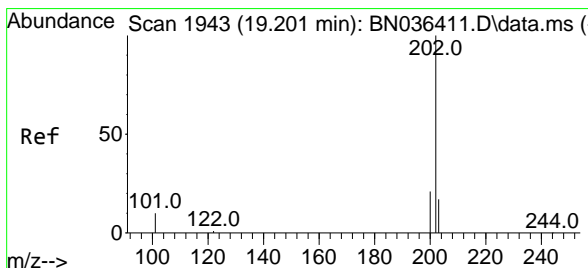
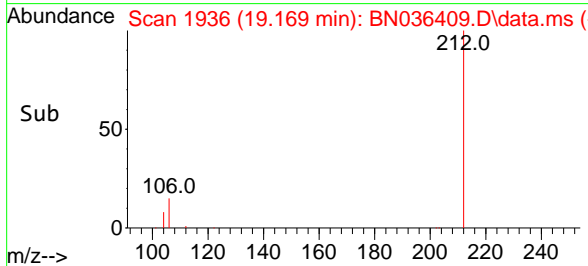
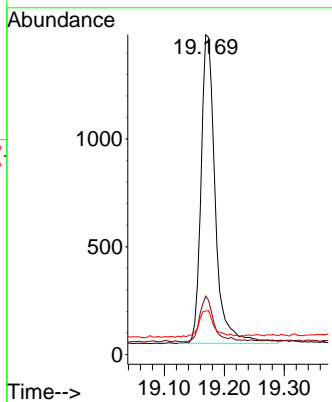
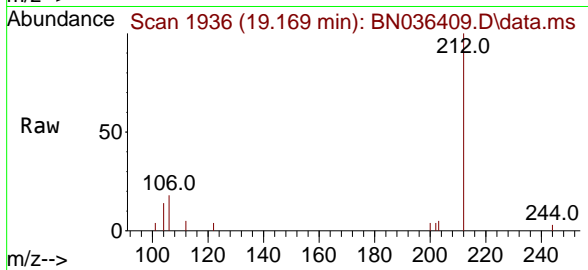


#27
 Fluoranthene-d10
 Concen: 0.108 ng
 RT: 19.169 min Scan# 1936
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

Tgt Ion:212 Resp: 2368

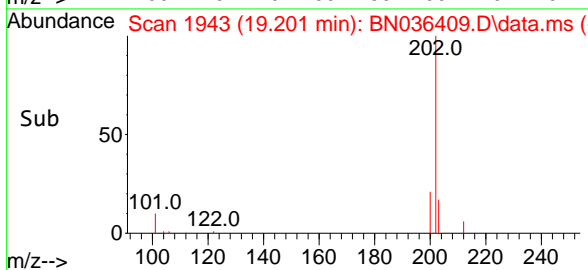
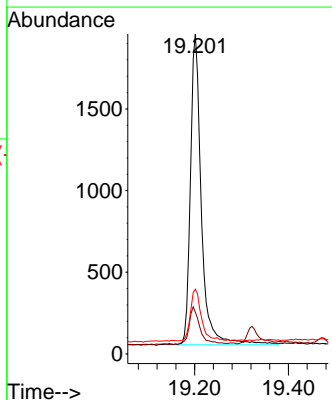
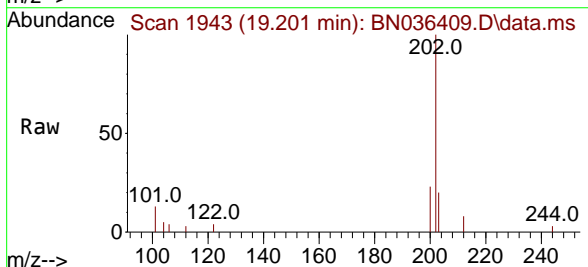
Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.5	17.3
104	9.8	7.1	10.7

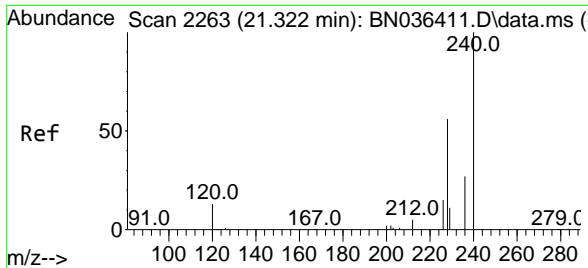


#28
 Fluoranthene
 Concen: 0.104 ng
 RT: 19.201 min Scan# 1943
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion:202 Resp: 3077

Ion	Ratio	Lower	Upper
202	100		
101	12.2	9.2	13.8
203	16.6	13.4	20.0



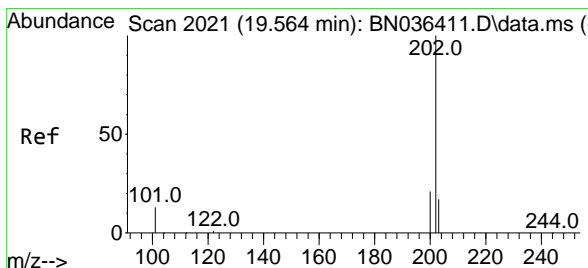
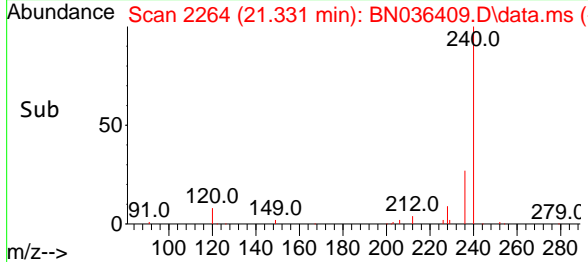
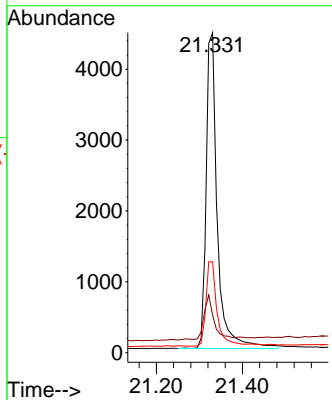
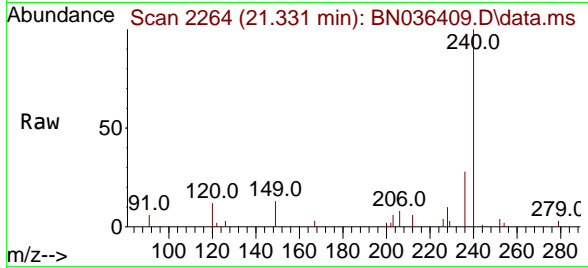


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.331 min Scan# 21
 Delta R.T. 0.009 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

Tgt Ion:240 Resp: 8027

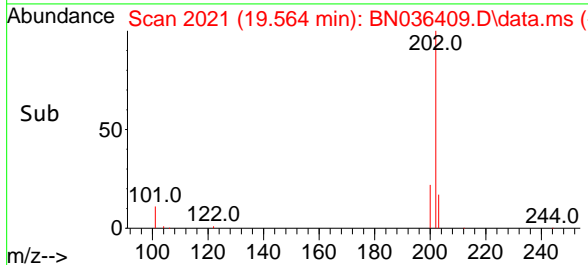
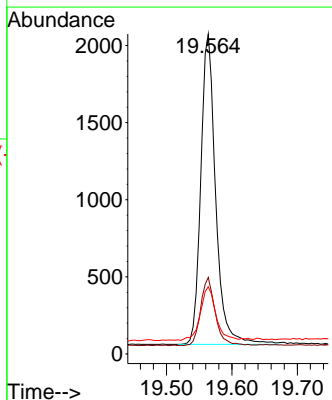
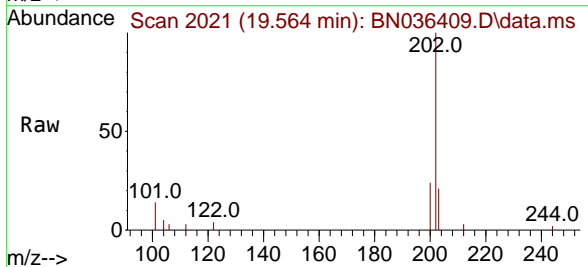
Ion	Ratio	Lower	Upper
240	100		
120	11.7	13.3	19.9#
236	28.4	23.0	34.6

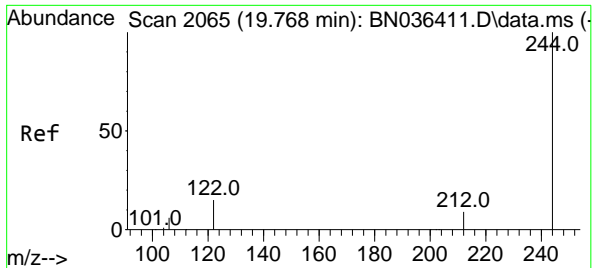


#30
 Pyrene
 Concen: 0.099 ng
 RT: 19.564 min Scan# 2021
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion:202 Resp: 3179

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	17.8	13.9	20.9

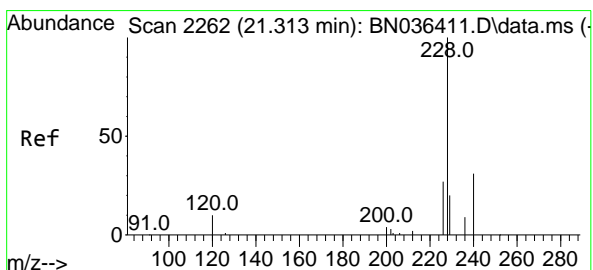
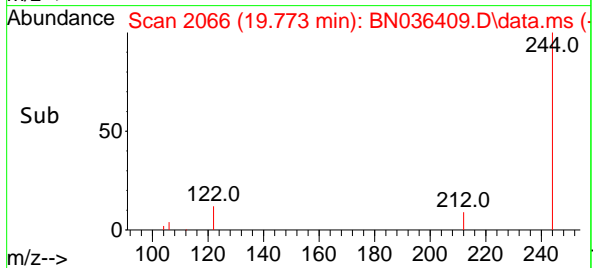
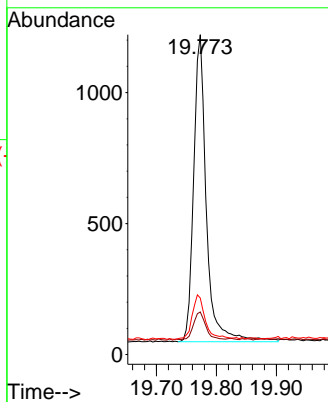
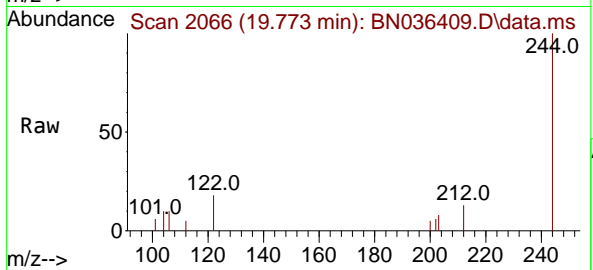




#31
 Terphenyl-d14
 Concen: 0.104 ng
 RT: 19.773 min Scan# 2066
 Delta R.T. 0.005 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

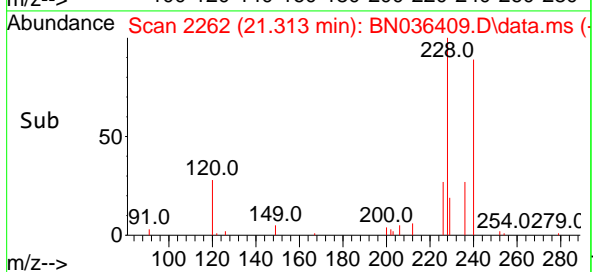
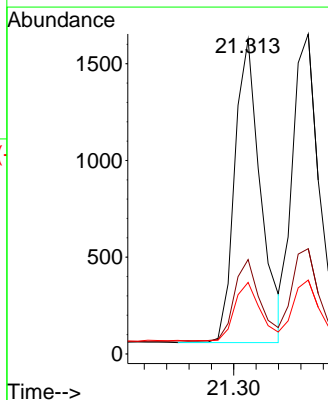
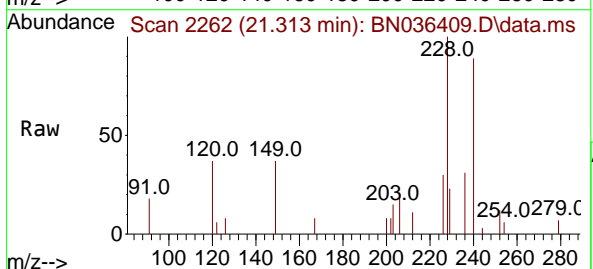
Instrument : BNA_N
 Client Sample Id : SSTDICC0.1

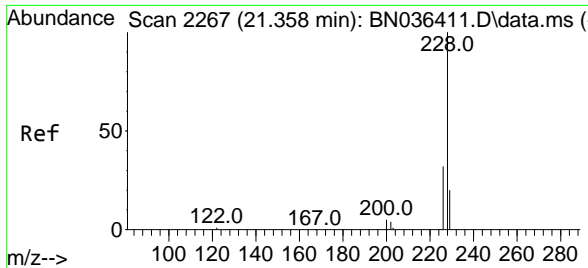
Tgt Ion	Resp	Ion Ratio	Lower	Upper
244	1725	100		
212	13.3	8.1	12.1#	
122	17.7	12.8	19.2	



#32
 Benzo(a)anthracene
 Concen: 0.088 ng
 RT: 21.313 min Scan# 2262
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Ion Ratio	Lower	Upper
228	2523	100		
226	30.0	22.2	33.2	
229	22.7	16.5	24.7	

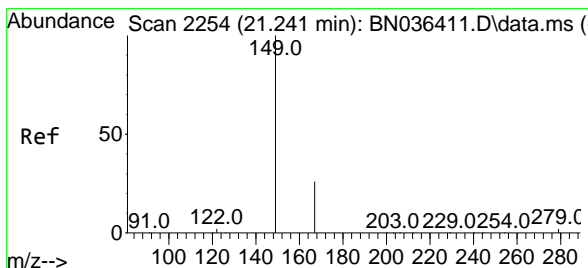
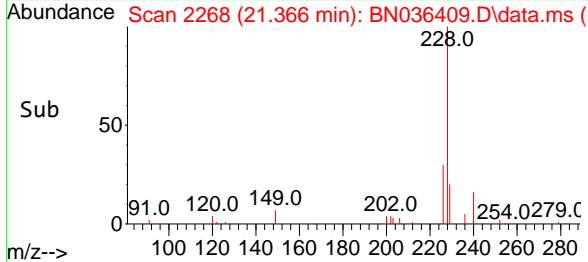
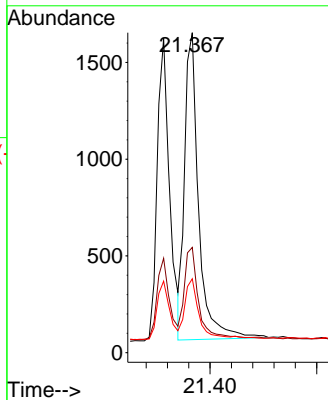
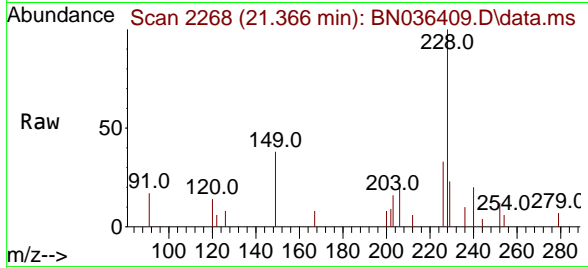




#33
 Chrysene
 Concen: 0.099 ng
 RT: 21.366 min Scan# 21
 Delta R.T. 0.009 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

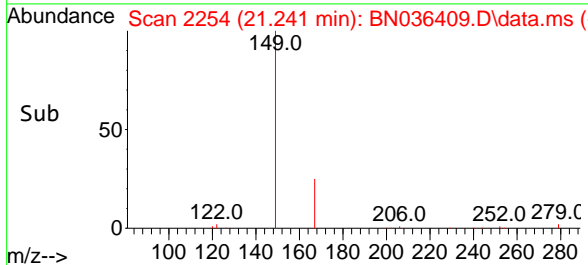
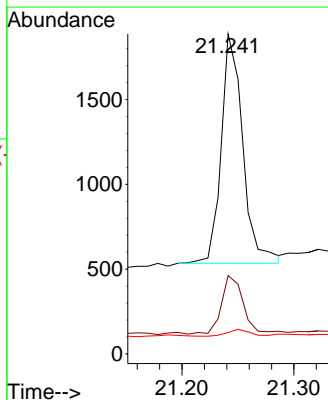
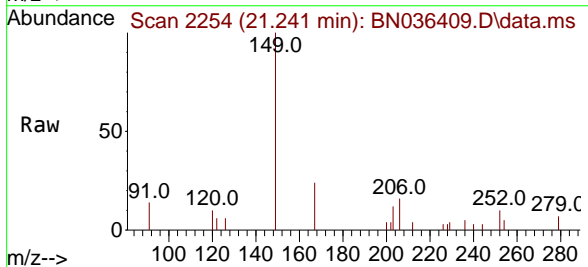
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

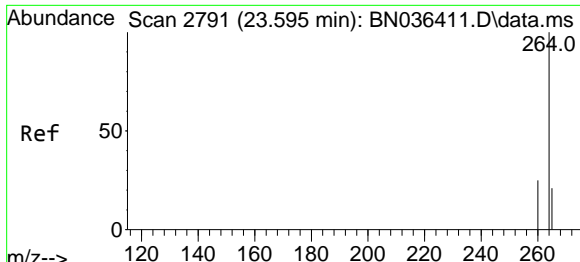
Tgt Ion	Resp	Lower	Upper
228	100		
226	32.9	25.5	38.3
229	23.1	16.4	24.6



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.114 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Lower	Upper
149	100		
167	26.2	21.2	31.8
279	3.1	2.7	4.1

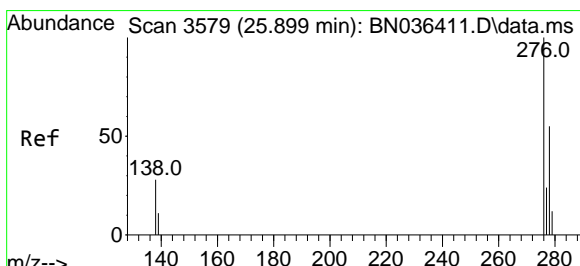
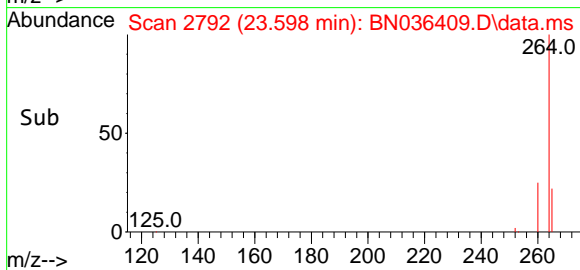
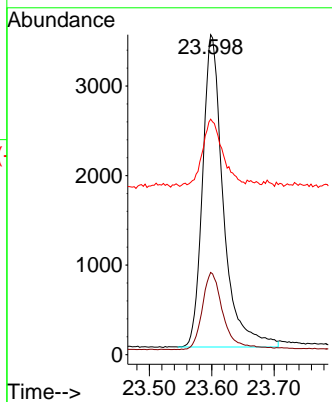
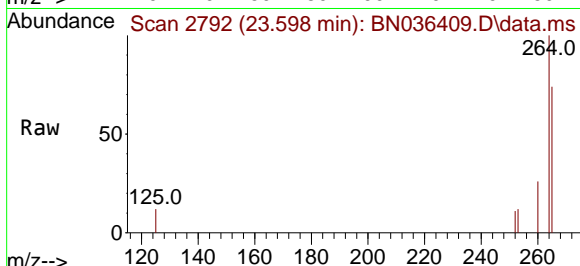




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.598 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

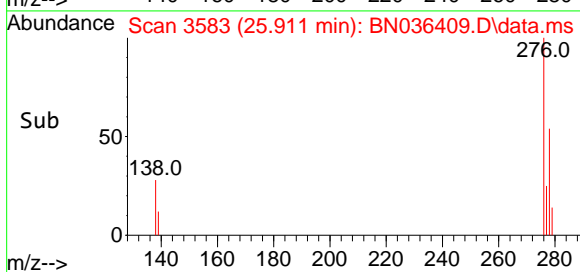
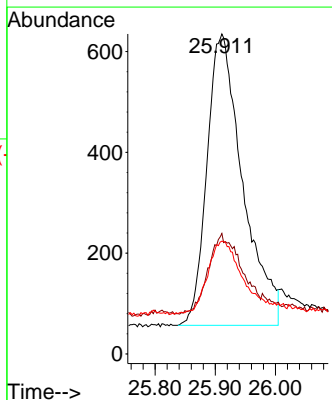
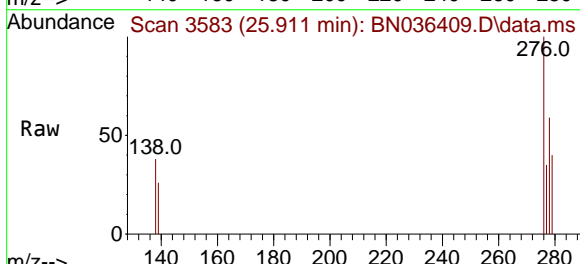
Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

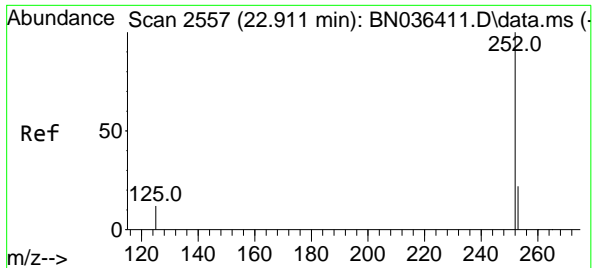
Tgt Ion	Resp	Lower	Upper
264	100		
260	25.7	20.9	31.3
265	73.6	60.7	91.1



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.075 ng
 RT: 25.911 min Scan# 3583
 Delta R.T. 0.012 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion	Resp	Lower	Upper
276	100		
138	25.9	22.2	33.2
277	24.8	19.8	29.6



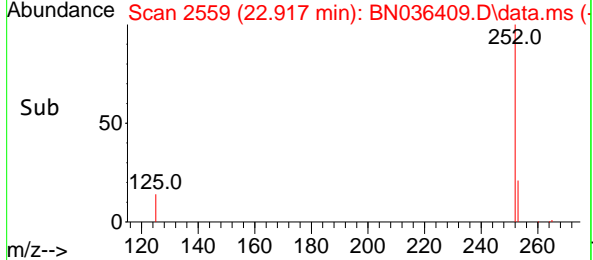
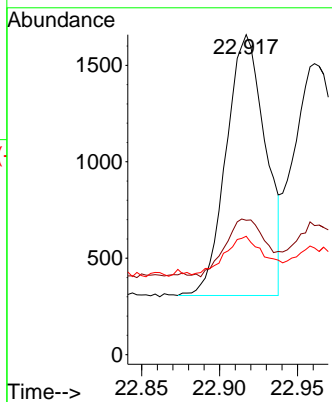
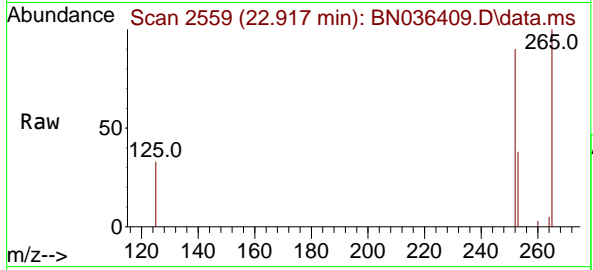


#37
 Benzo(b)fluoranthene
 Concen: 0.083 ng
 RT: 22.917 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

Tgt Ion:252 Resp: 2367

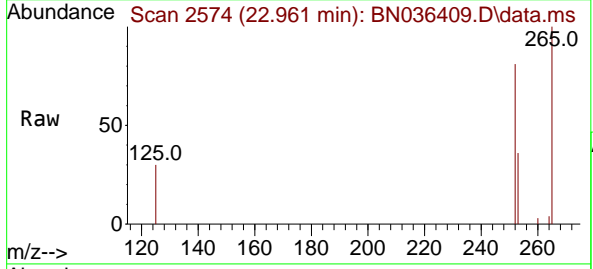
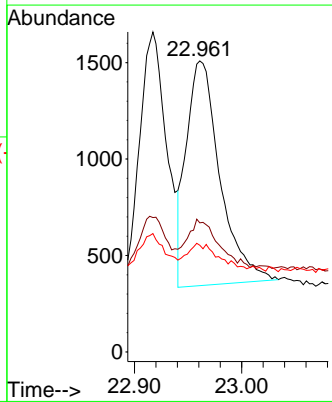
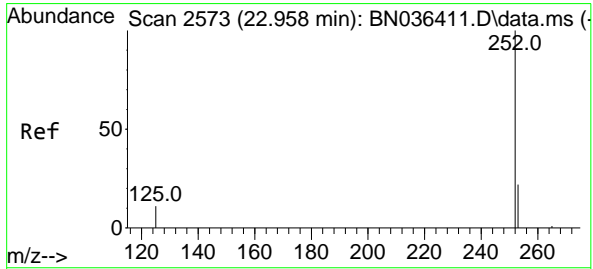
Ion	Ratio	Lower	Upper
252	100		
253	42.0	21.9	32.9#
125	37.0	15.0	22.6#

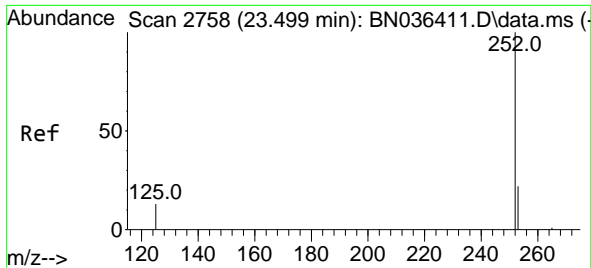


#38
 Benzo(k)fluoranthene
 Concen: 0.087 ng
 RT: 22.961 min Scan# 2574
 Delta R.T. 0.003 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion:252 Resp: 2537

Ion	Ratio	Lower	Upper
252	100		
253	44.3	22.2	33.4#
125	36.6	15.0	22.4#



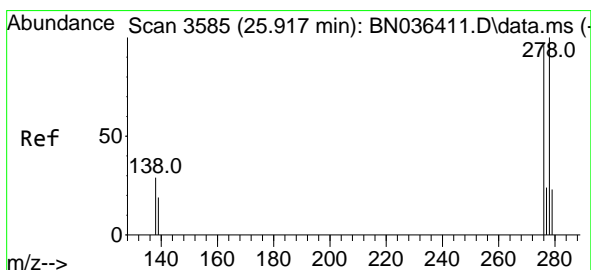
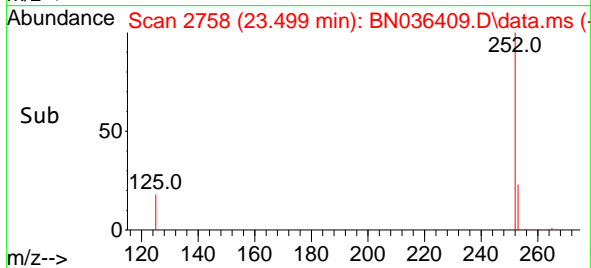
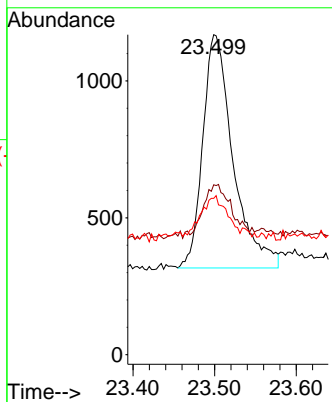
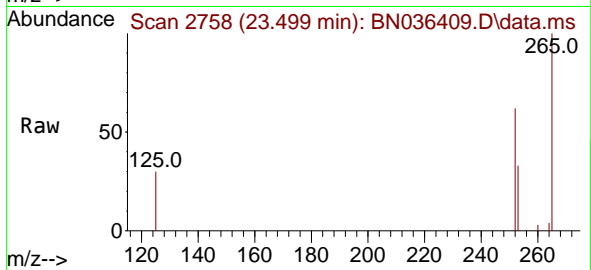


#39
 Benzo(a)pyrene
 Concen: 0.089 ng
 RT: 23.499 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion:252 Resp: 2200

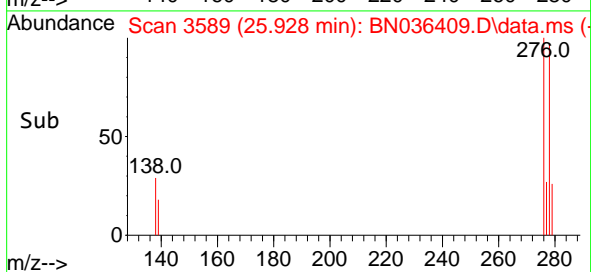
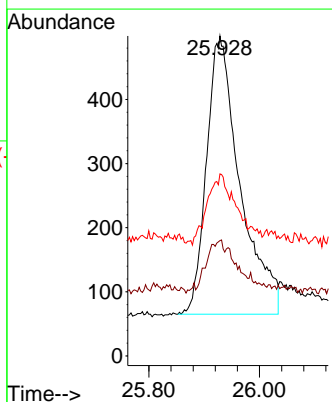
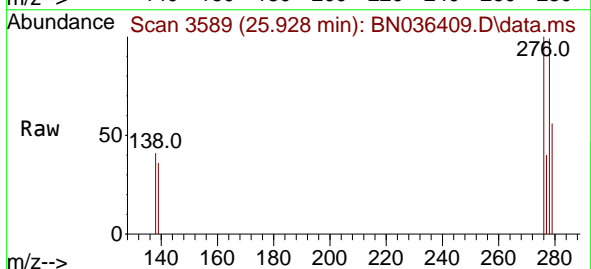
Ion	Ratio	Lower	Upper
252	100		
253	53.1	24.4	36.6#
125	48.8	18.2	27.2#

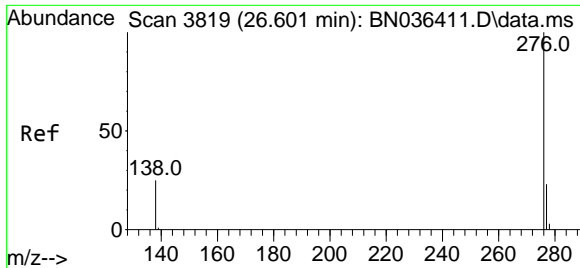


#40
 Dibenzo(a,h)anthracene
 Concen: 0.073 ng
 RT: 25.928 min Scan# 3589
 Delta R.T. 0.012 min
 Lab File: BN036409.D
 Acq: 10 Feb 2025 12:25

Tgt Ion:278 Resp: 1827

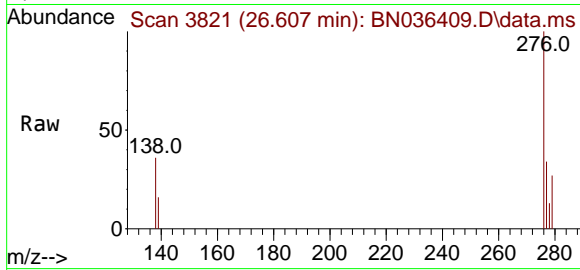
Ion	Ratio	Lower	Upper
278	100		
139	36.1	18.5	27.7#
279	56.9	24.8	37.2#





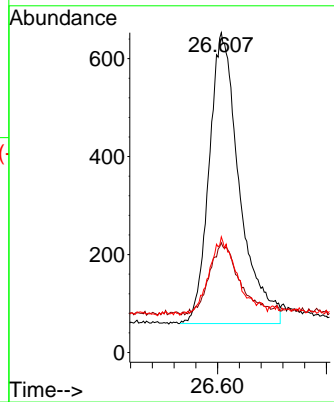
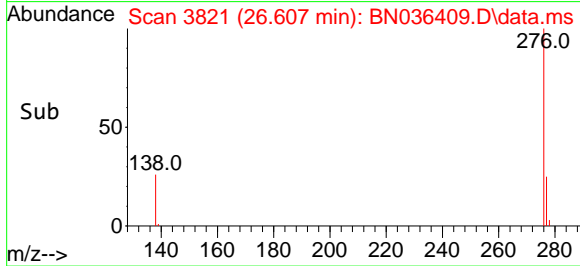
#41
Benzo(g,h,i)perylene
Concen: 0.083 ng
RT: 26.607 min Scan# 31
Delta R.T. 0.006 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 276 Resp: 2299

Ion	Ratio	Lower	Upper
276	100		
277	34.3	20.7	31.1#
138	36.1	21.8	32.6#



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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036410.D
 Acq On : 10 Feb 2025 13:01
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Feb 11 00:35:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

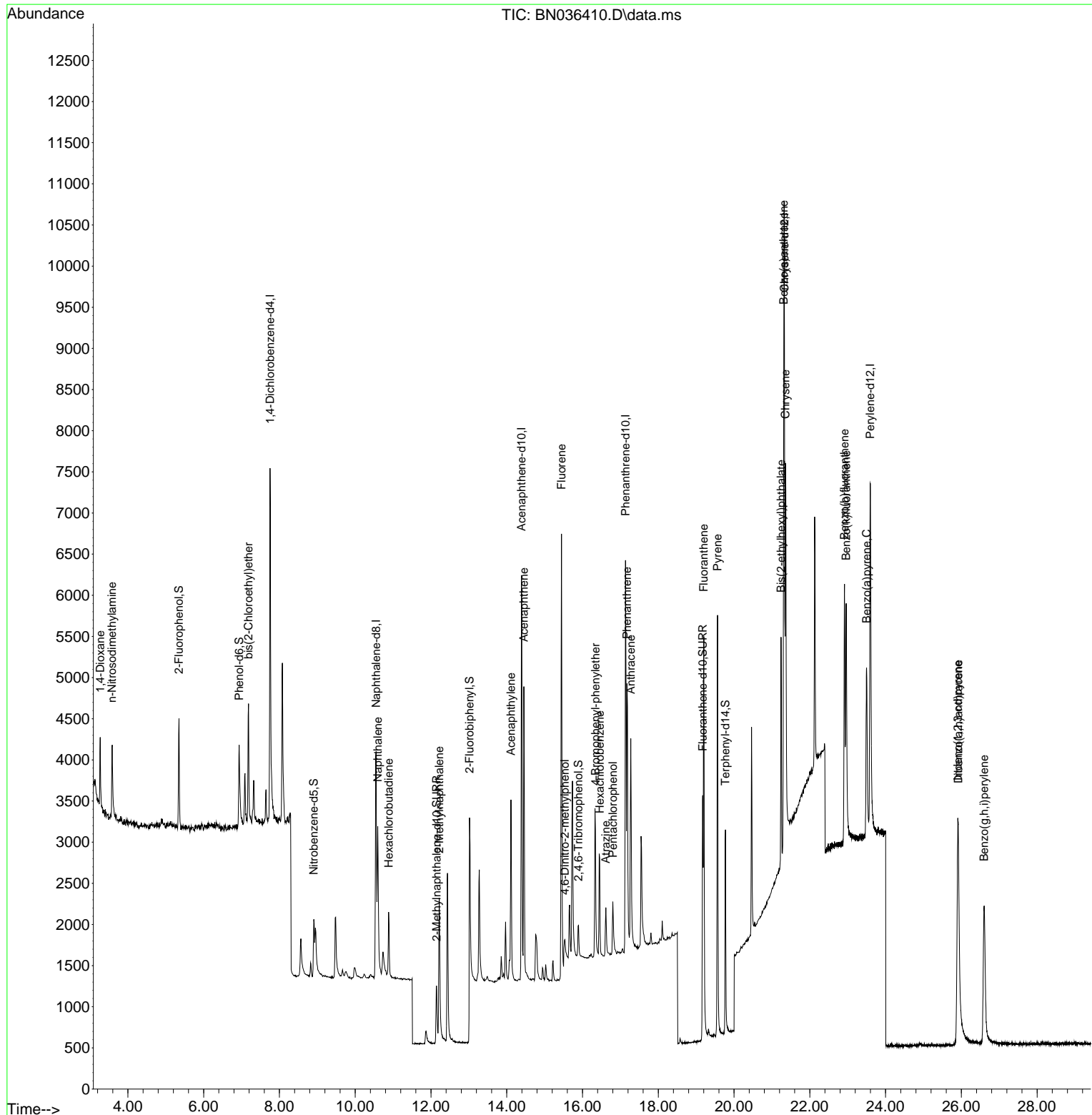
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2157	0.400 ng	0.00	
7) Naphthalene-d8	10.551	136	4791	0.400 ng	# 0.01	
13) Acenaphthene-d10	14.387	164	3185	0.400 ng	0.00	
19) Phenanthrene-d10	17.136	188	7435	0.400 ng	0.00	
29) Chrysene-d12	21.331	240	6531	0.400 ng	# 0.00	
35) Perylene-d12	23.595	264	6918	0.400 ng	0.00	
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	1029	0.187 ng	0.00	
5) Phenol-d6	6.937	99	1086	0.170 ng	0.00	
8) Nitrobenzene-d5	8.907	82	869	0.195 ng	0.00	
11) 2-Methylnaphthalene-d10	12.146	152	1397	0.213 ng	0.00	
14) 2,4,6-Tribromophenol	15.895	330	289	0.147 ng	0.01	
15) 2-Fluorobiphenyl	13.019	172	2214	0.163 ng	0.00	
27) Fluoranthene-d10	19.173	212	3879	0.203 ng	0.00	
31) Terphenyl-d14	19.773	244	2765	0.204 ng	0.00	
Target Compounds						
2) 1,4-Dioxane	3.268	88	471	0.198 ng		Qvalue 97
3) n-Nitrosodimethylamine	3.579	42	840	0.196 ng	#	98
6) bis(2-Chloroethyl)ether	7.183	93	1154	0.217 ng		98
9) Naphthalene	10.594	128	2733	0.200 ng	#	95
10) Hexachlorobutadiene	10.882	225	702	0.164 ng	#	99
12) 2-Methylnaphthalene	12.217	142	1706	0.198 ng		97
16) Acenaphthylene	14.110	152	2654	0.180 ng		98
17) Acenaphthene	14.452	154	1791	0.177 ng		98
18) Fluorene	15.446	166	2596	0.200 ng		100
20) 4,6-Dinitro-2-methylph...	15.535	198	248	0.149 ng	#	85
21) 4-Bromophenyl-phenylether	16.342	248	844	0.166 ng	#	80
22) Hexachlorobenzene	16.453	284	1101	0.166 ng		97
23) Atrazine	16.615	200	705	0.188 ng		95
24) Pentachlorophenol	16.801	266	463	0.159 ng		95
25) Phenanthrene	17.173	178	4051	0.186 ng		100
26) Anthracene	17.273	178	3467	0.175 ng		98
28) Fluoranthene	19.201	202	4918	0.190 ng		100
30) Pyrene	19.564	202	5119	0.196 ng		100
32) Benzo(a)anthracene	21.313	228	4166	0.180 ng		98
33) Chrysene	21.357	228	4754	0.200 ng		99
34) Bis(2-ethylhexyl)phtha...	21.241	149	2858	0.221 ng		100
36) Indeno(1,2,3-cd)pyrene	25.905	276	4459	0.164 ng		99
37) Benzo(b)fluoranthene	22.914	252	4220	0.172 ng	#	85
38) Benzo(k)fluoranthene	22.958	252	4335	0.173 ng	#	85
39) Benzo(a)pyrene	23.499	252	3740	0.177 ng	#	80
40) Dibenzo(a,h)anthracene	25.919	278	3533	0.164 ng	#	86
41) Benzo(g,h,i)perylene	26.601	276	4192	0.177 ng		93

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

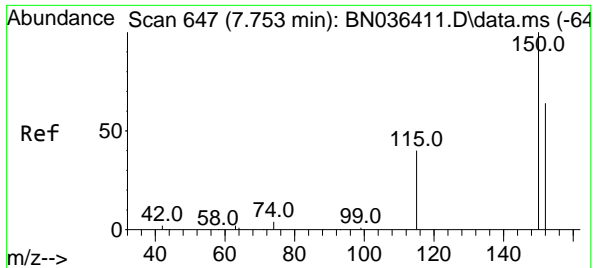
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036410.D
 Acq On : 10 Feb 2025 13:01
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Feb 11 00:35:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration



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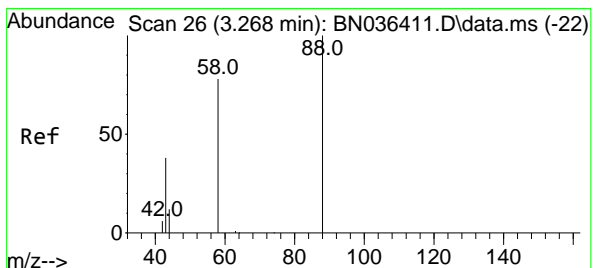
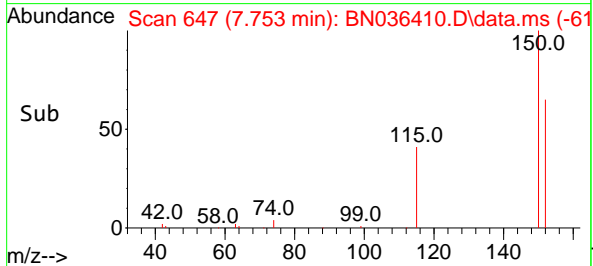
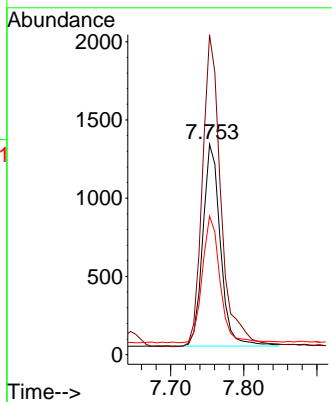
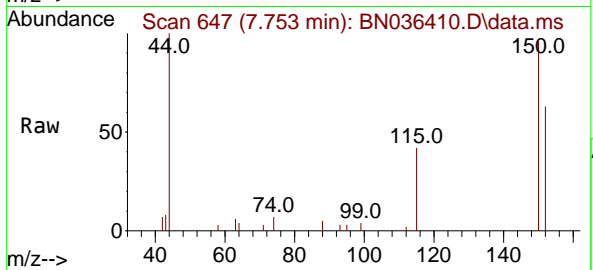


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:152 Resp: 2157

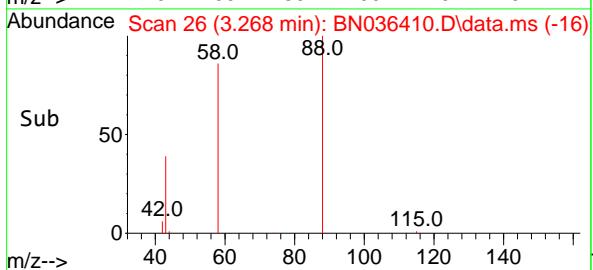
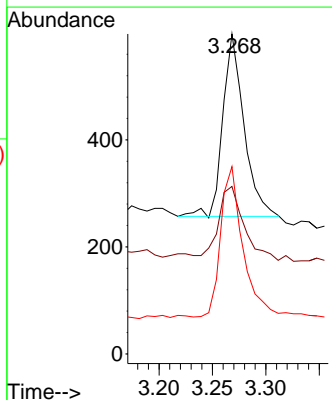
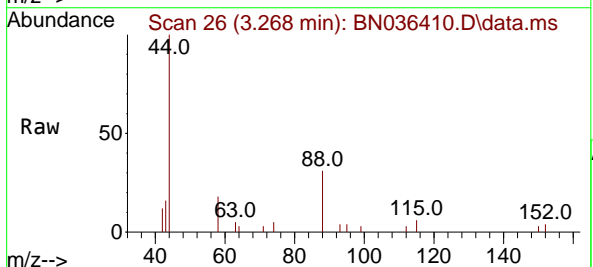
Ion	Ratio	Lower	Upper
152	100		
150	152.0	123.7	185.5
115	65.9	52.5	78.7

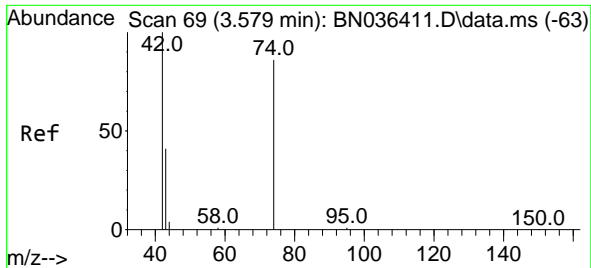


#2
 1,4-Dioxane
 Concen: 0.198 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion: 88 Resp: 471

Ion	Ratio	Lower	Upper
88	100		
43	48.2	33.7	50.5
58	85.8	68.9	103.3



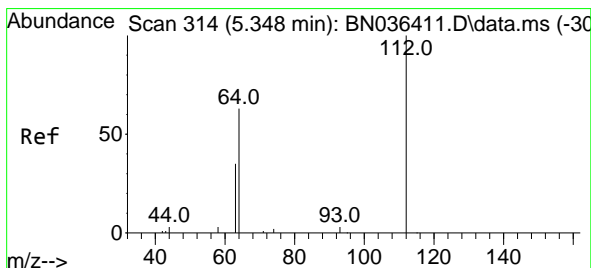
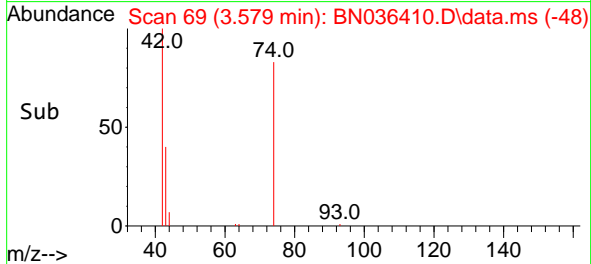
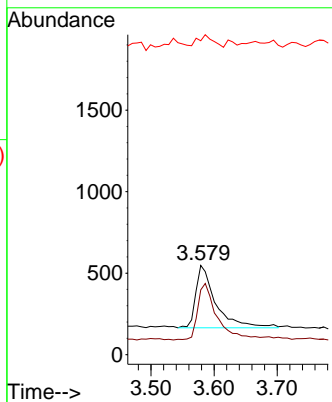
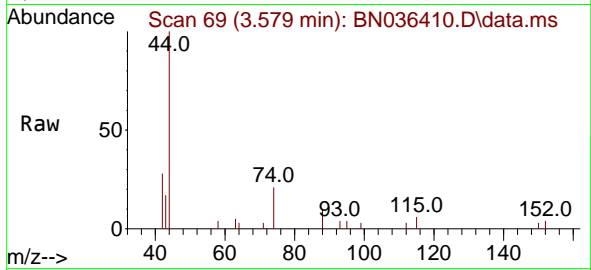


#3
 n-Nitrosodimethylamine
 Concen: 0.196 ng
 RT: 3.579 min Scan# 69
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

Tgt Ion: 42 Resp: 840

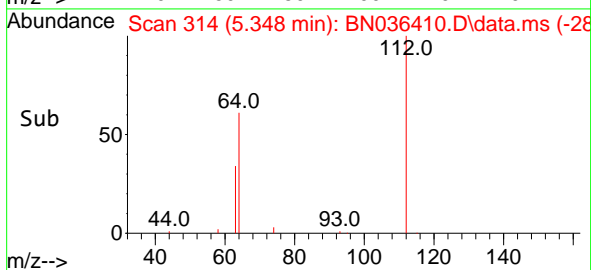
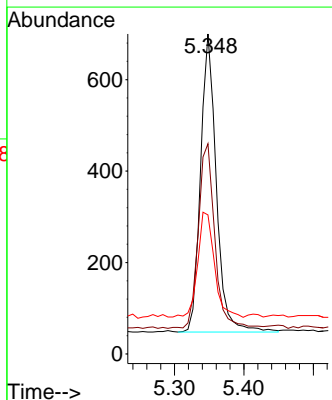
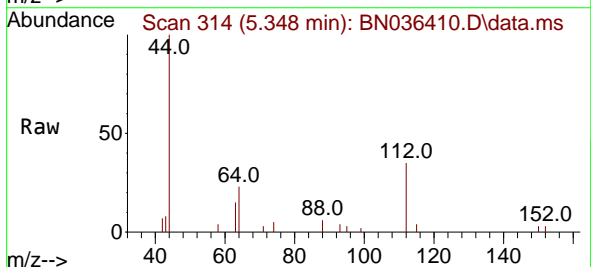
Ion	Ratio	Lower	Upper
42	100		
74	90.6	71.8	107.6
44	14.5	7.8	11.6

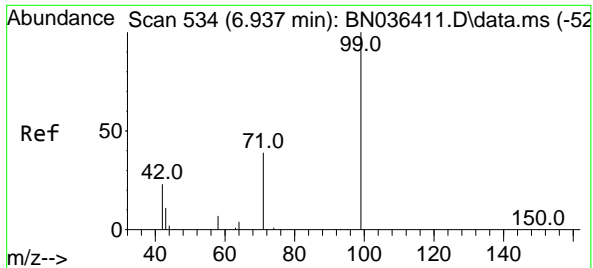


#4
 2-Fluorophenol
 Concen: 0.187 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion: 112 Resp: 1029

Ion	Ratio	Lower	Upper
112	100		
64	64.8	53.4	80.0
63	37.2	30.3	45.5

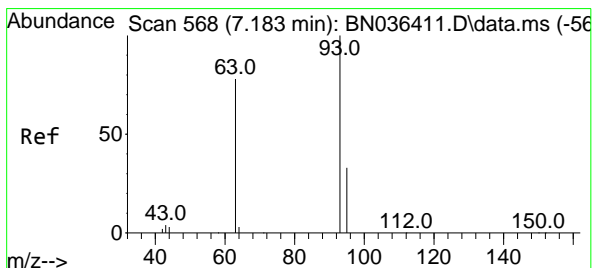
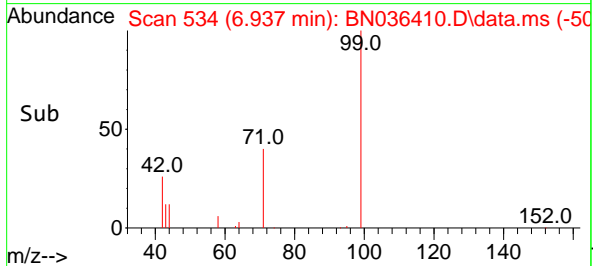
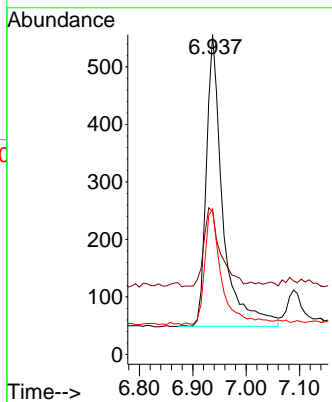
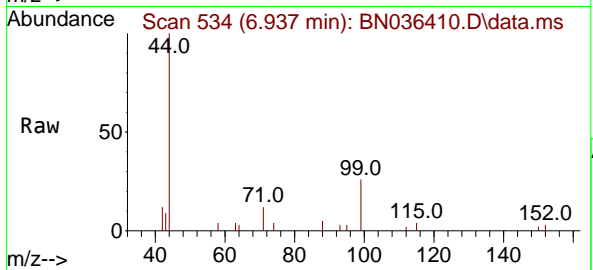




#5
Phenol-d6
Concen: 0.170 ng
RT: 6.937 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

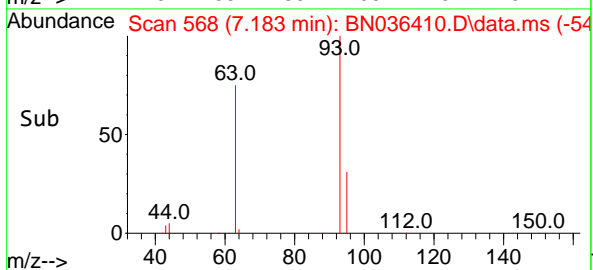
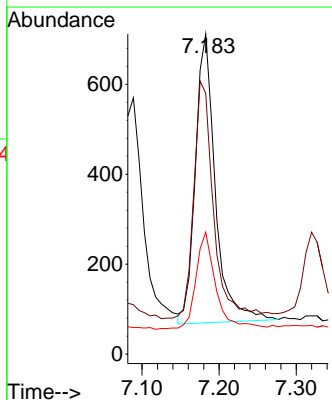
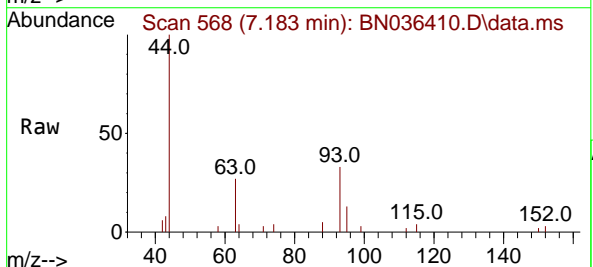
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

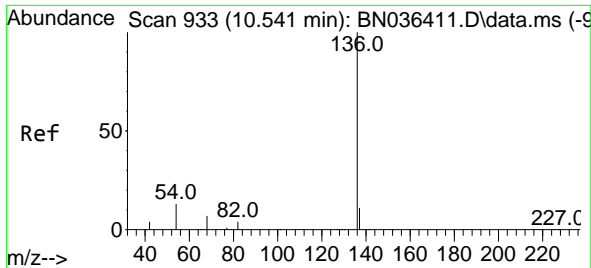
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	1086	100		
42		26.8	21.7	32.5
71		40.7	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.217 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	1154	100		
63		81.6	66.3	99.5
95		34.1	26.2	39.4



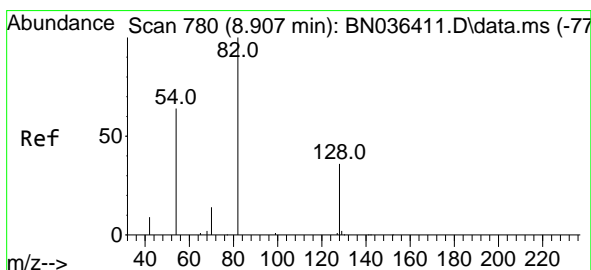
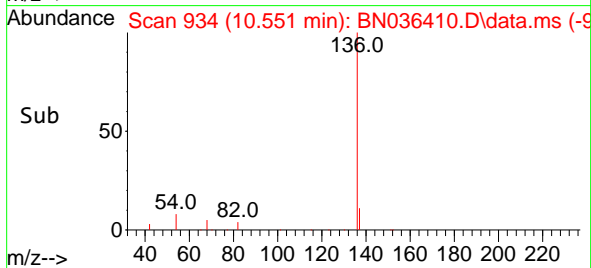
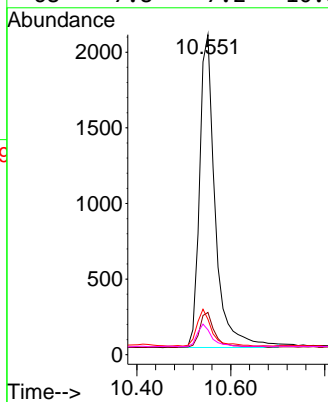
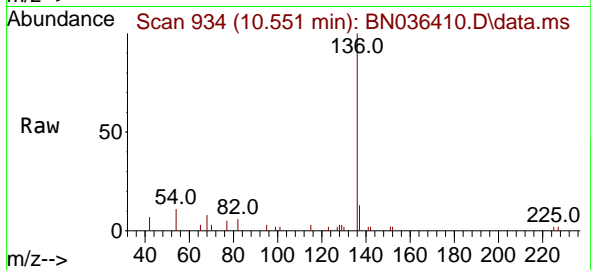


#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.551 min Scan# 911
 Delta R.T. 0.011 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion: 136 Resp: 4791

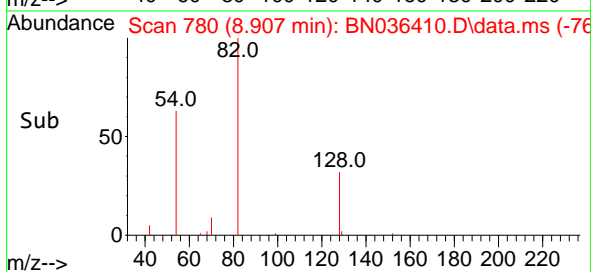
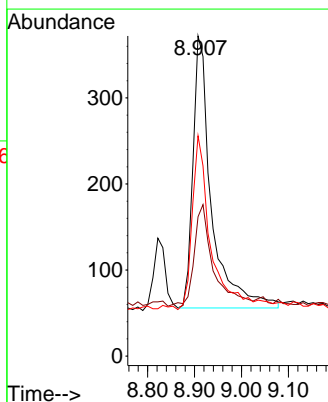
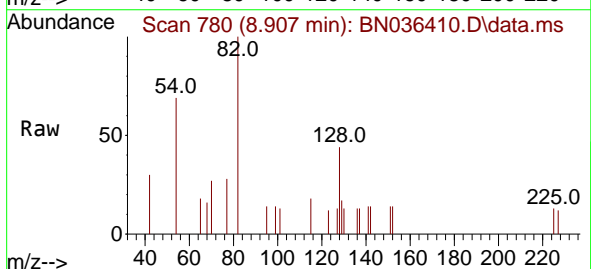
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.1	15.1
54	11.1	11.8	17.6#
68	7.8	7.2	10.8

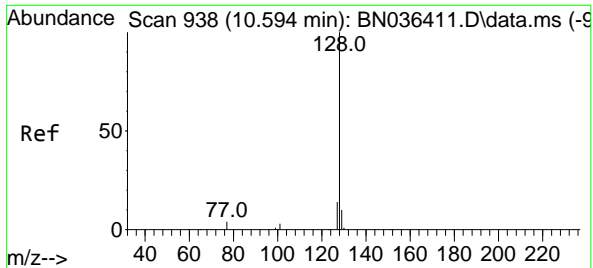


#8
 Nitrobenzene-d5
 Concen: 0.195 ng
 RT: 8.907 min Scan# 780
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion: 82 Resp: 869

Ion	Ratio	Lower	Upper
82	100		
128	43.5	31.9	47.9
54	68.8	53.1	79.7



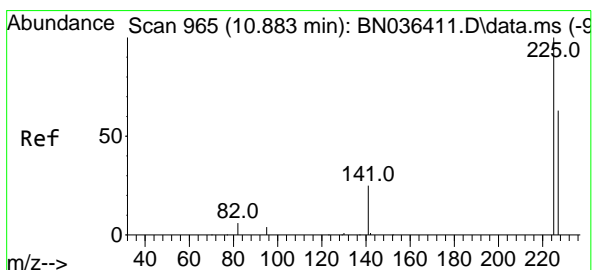
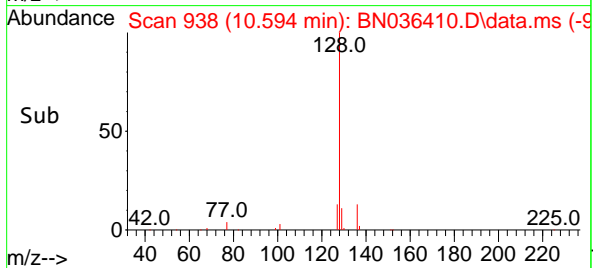
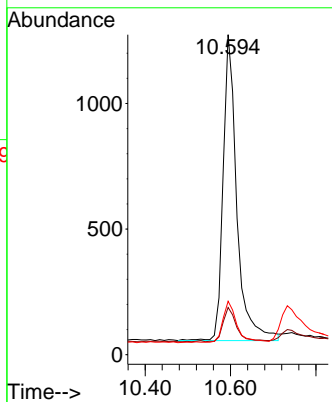
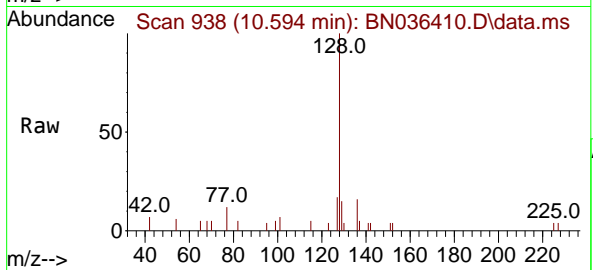


#9
Naphthalene
 Concen: 0.200 ng
 RT: 10.594 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument :
 BNA_N
ClientSampleId :
 SSTDICC0.2

Tgt Ion:128 Resp: 2733

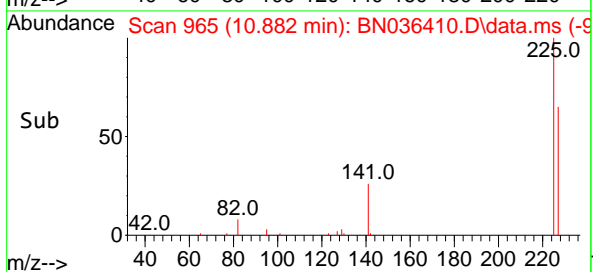
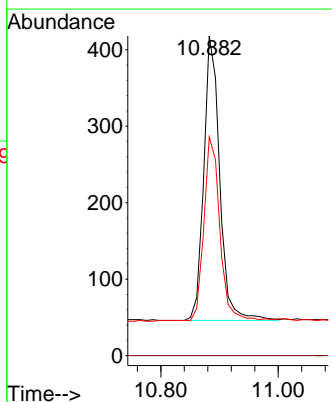
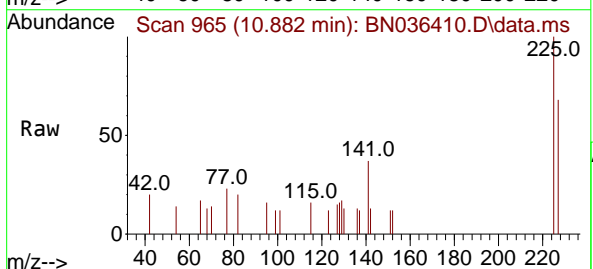
Ion	Ratio	Lower	Upper
128	100		
129	14.8	9.6	14.4#
127	16.7	12.0	18.0

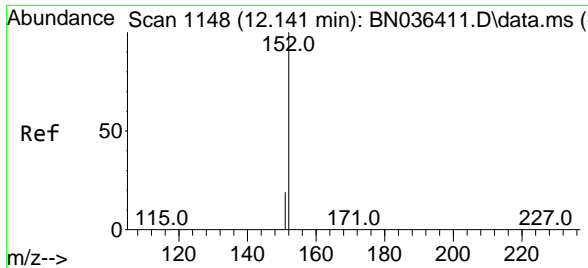


#10
Hexachlorobutadiene
 Concen: 0.164 ng
 RT: 10.882 min Scan# 965
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion:225 Resp: 702

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	50.9	76.3

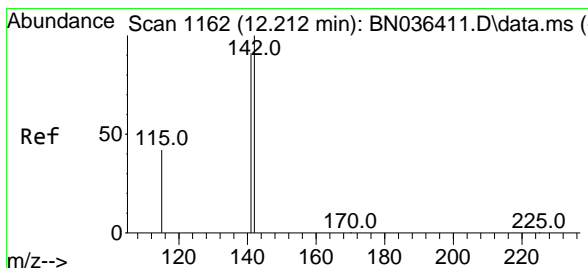
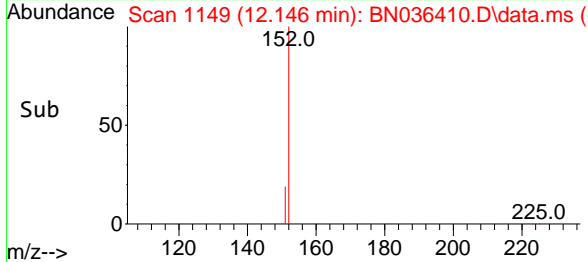
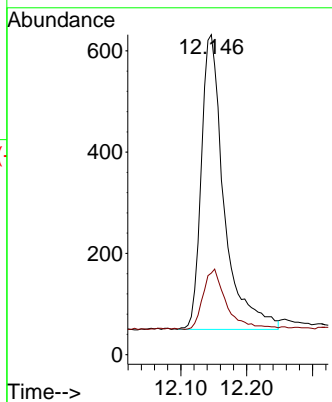
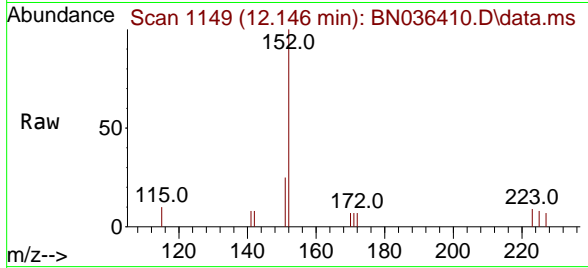




#11
 2-Methylnaphthalene-d10
 Concen: 0.213 ng
 RT: 12.146 min Scan# 1149
 Delta R.T. 0.005 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

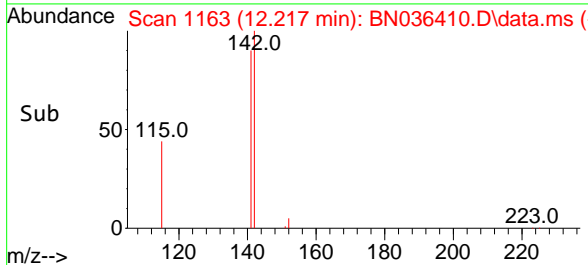
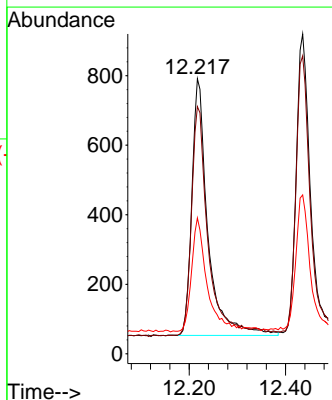
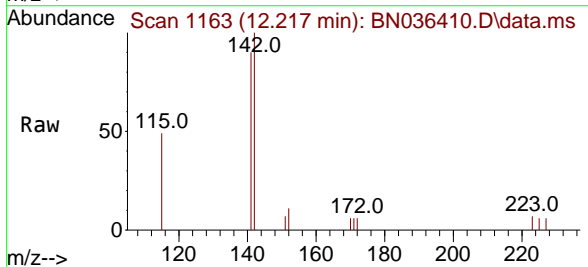
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

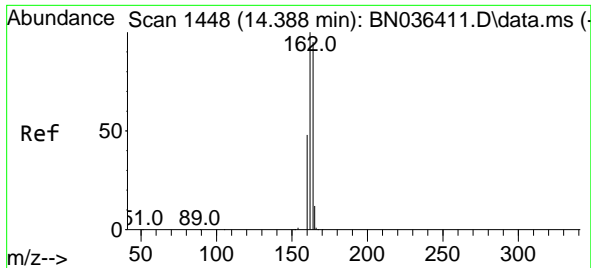
Tgt Ion:152 Resp: 1397
 Ion Ratio Lower Upper
 152 100
 151 21.0 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.198 ng
 RT: 12.217 min Scan# 1163
 Delta R.T. 0.005 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion:142 Resp: 1706
 Ion Ratio Lower Upper
 142 100
 141 89.9 72.8 109.2
 115 49.4 35.5 53.3



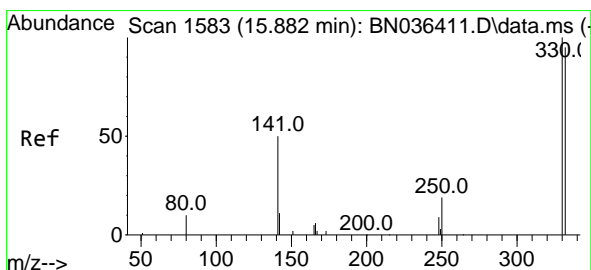
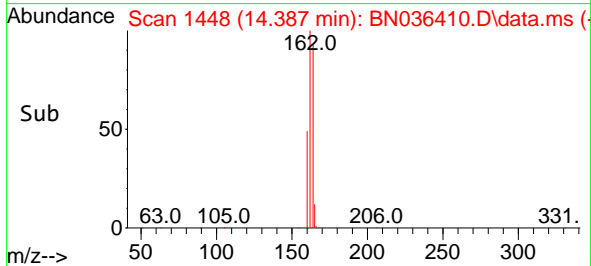
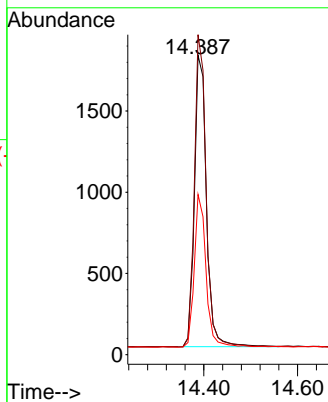
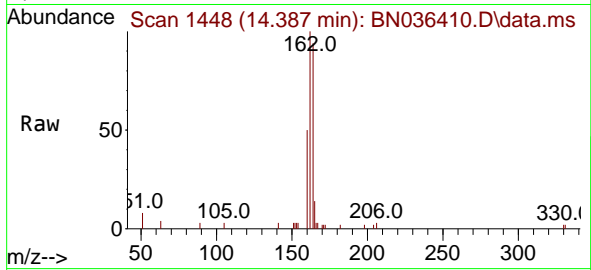


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:164 Resp: 3185

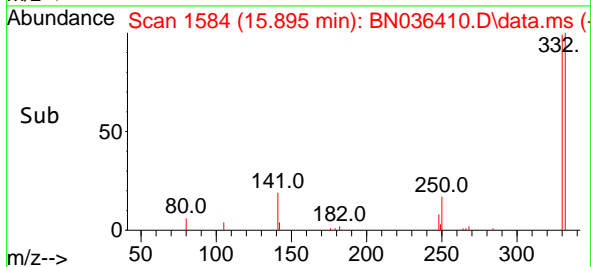
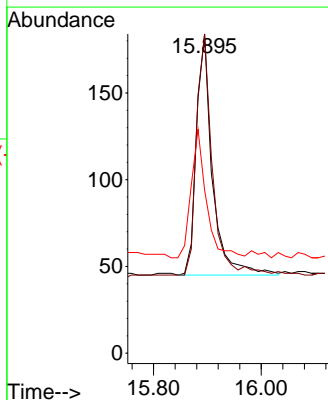
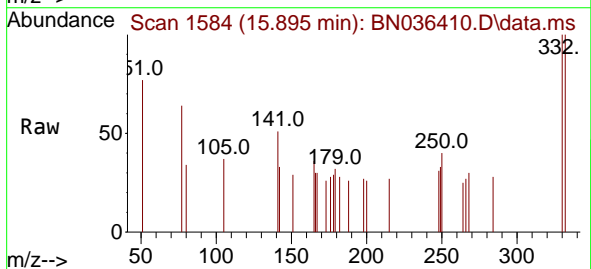
Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.1	126.1
160	53.5	41.4	62.0

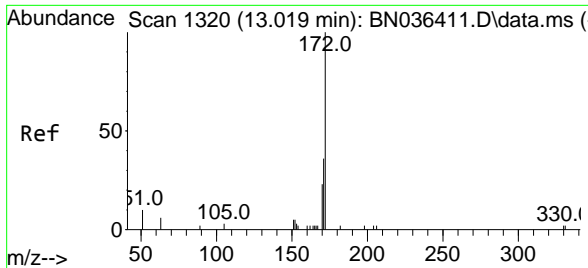


#14
 2,4,6-Tribromophenol
 Concen: 0.147 ng
 RT: 15.895 min Scan# 1584
 Delta R.T. 0.012 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion:330 Resp: 289

Ion	Ratio	Lower	Upper
330	100		
332	99.0	76.6	114.8
141	49.8	37.8	56.8





#15
 2-Fluorobiphenyl
 Concen: 0.163 ng
 RT: 13.019 min Scan# 111
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument :

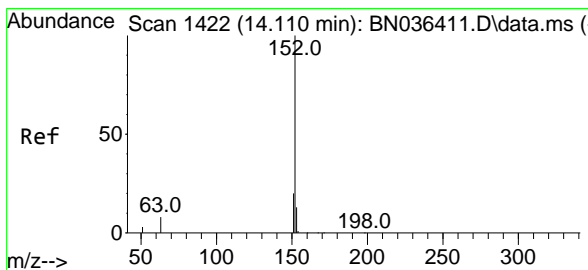
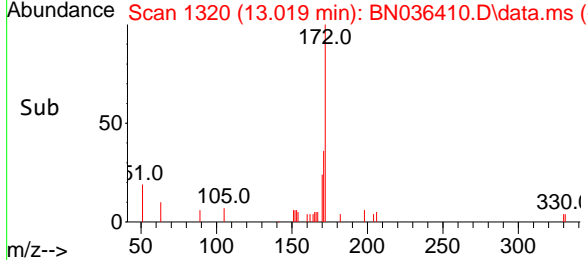
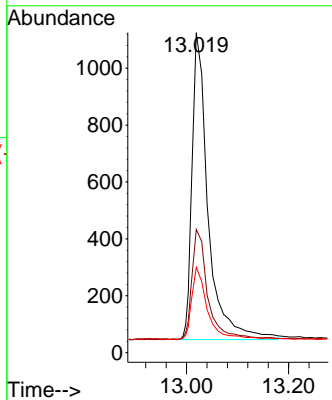
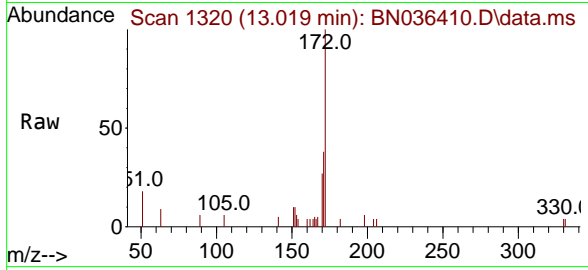
BNA_N

Client Sample Id :

SSTDICC0.2

Tgt Ion:172 Resp: 2214

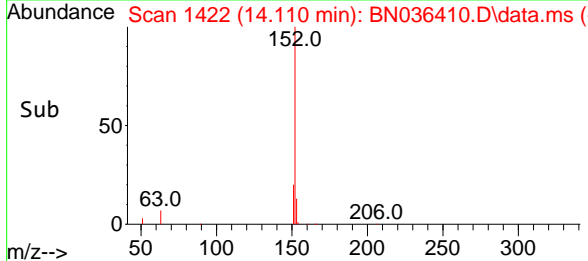
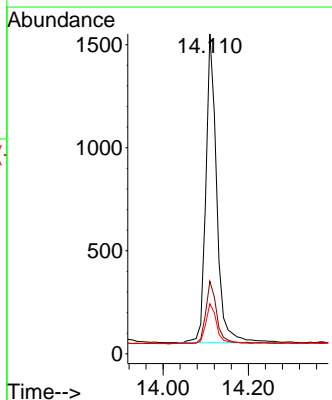
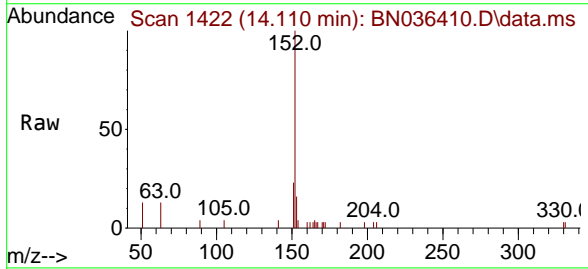
Ion	Ratio	Lower	Upper
172	100		
171	38.5	29.6	44.4
170	26.7	19.8	29.6

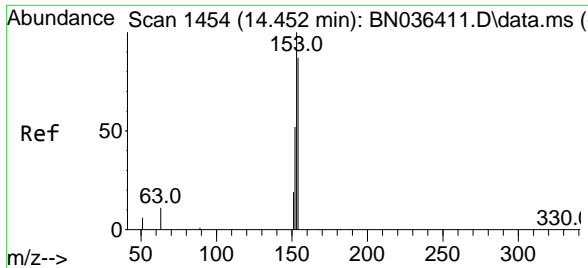


#16
 Acenaphthylene
 Concen: 0.180 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion:152 Resp: 2654

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.9	10.2	15.2

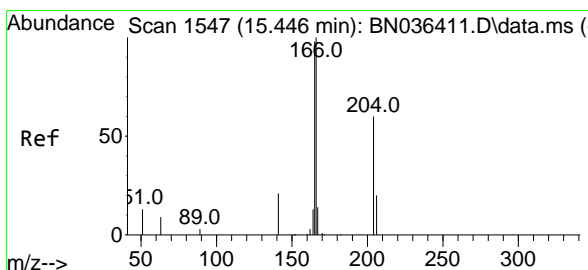
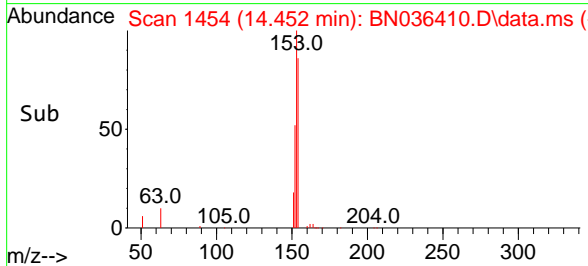
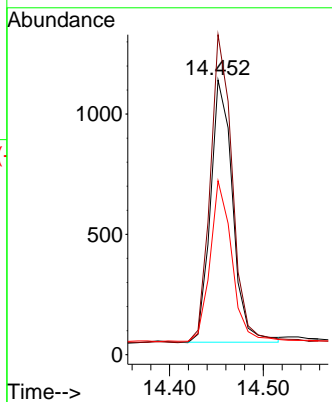
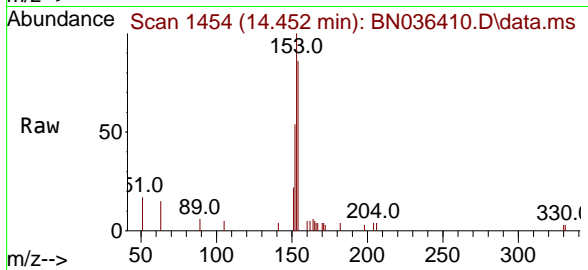




#17
 Acenaphthene
 Concen: 0.177 ng
 RT: 14.452 min Scan# 1454
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

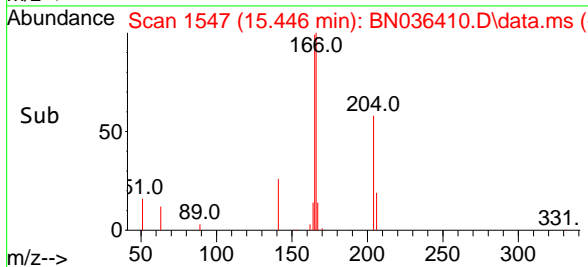
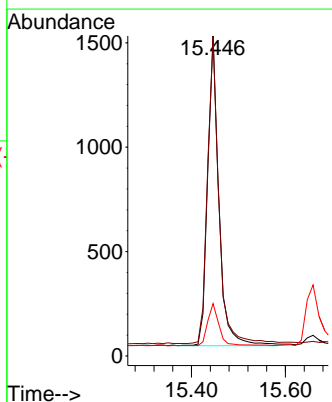
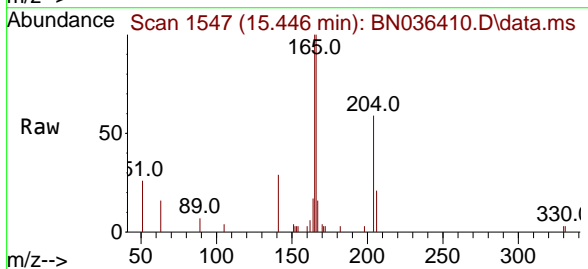
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

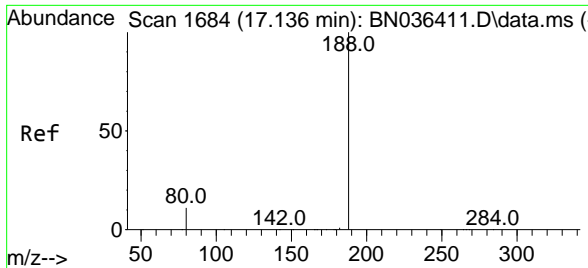
Tgt Ion	Resp	Lower	Upper
154	1791		
153	119.4	93.3	139.9
152	61.4	48.8	73.2



#18
 Fluorene
 Concen: 0.200 ng
 RT: 15.446 min Scan# 1547
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion	Resp	Lower	Upper
166	2596		
165	99.4	79.5	119.3
167	13.8	10.4	15.6

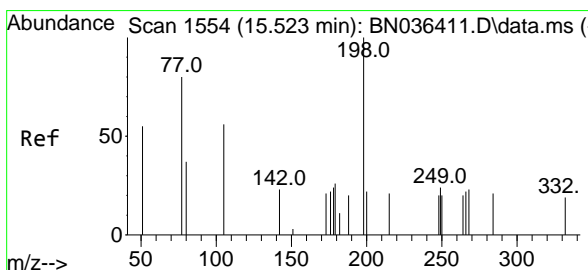
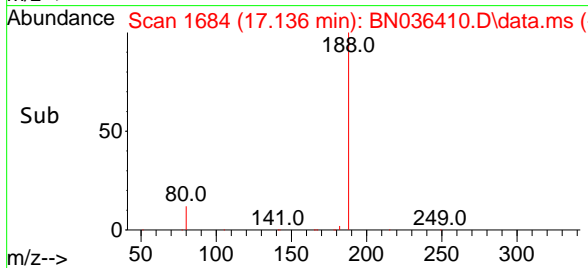
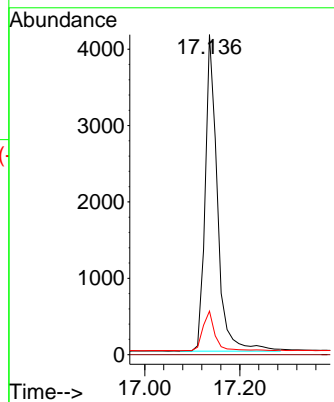
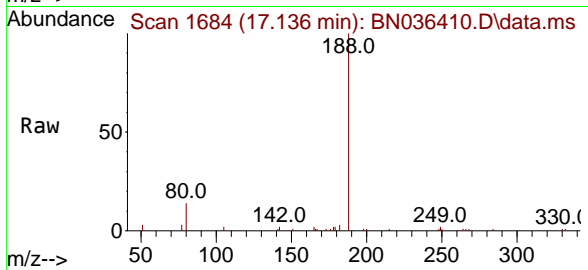




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 1684
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

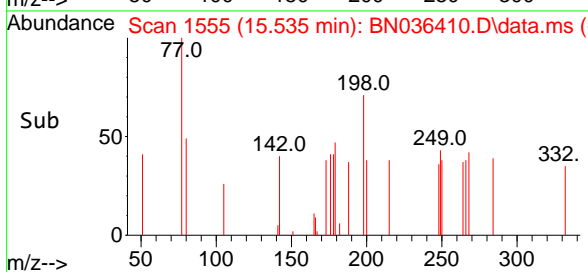
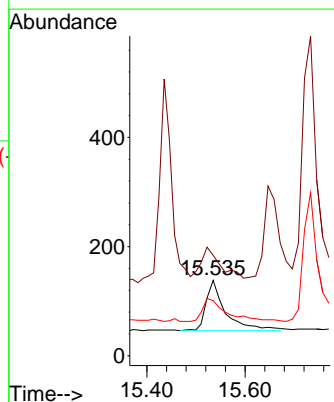
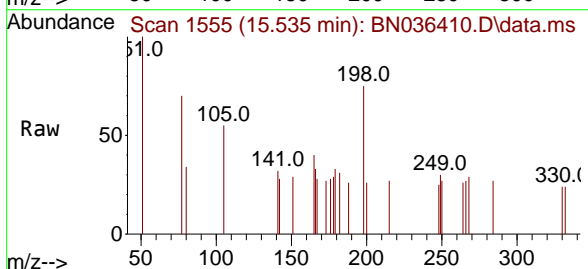
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

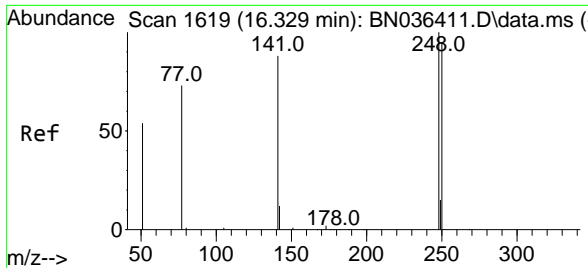
Tgt Ion	Resp	Lower	Upper
188	7435	100	100
94	0.0	0.0	0.0
80	13.6	9.8	14.6



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.149 ng
 RT: 15.535 min Scan# 1555
 Delta R.T. 0.012 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion	Resp	Lower	Upper
198	248	100	100
51	133.3	86.6	129.8
105	73.2	57.5	86.3



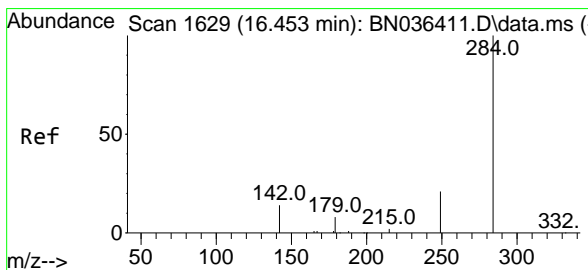
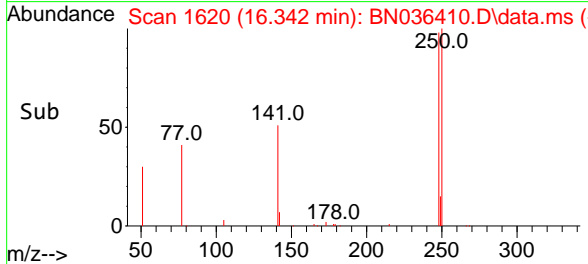
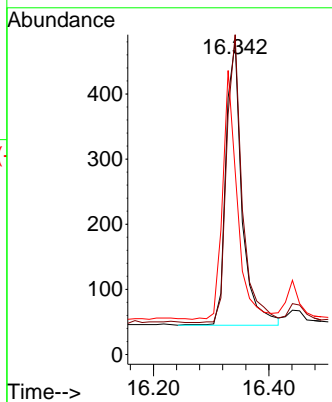
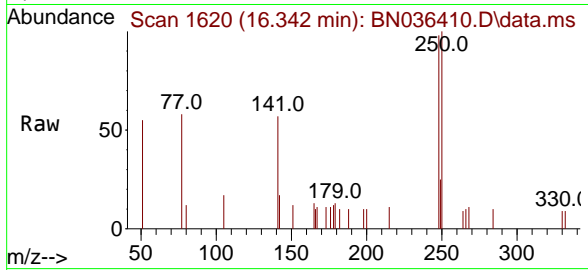


#21
 4-Bromophenyl-phenylether
 Concen: 0.166 ng
 RT: 16.342 min Scan# 1620
 Delta R.T. 0.012 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:248 Resp: 844

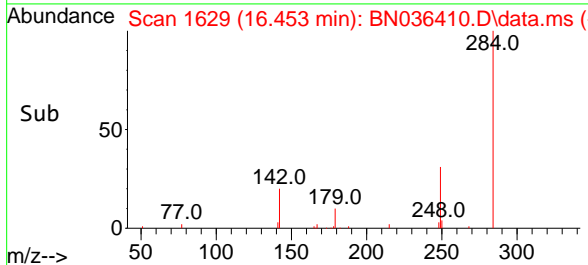
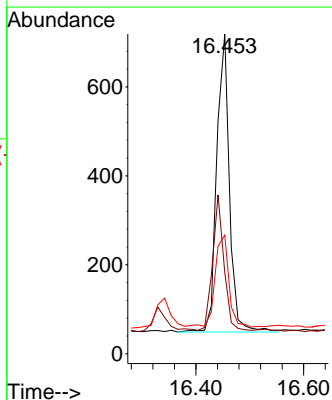
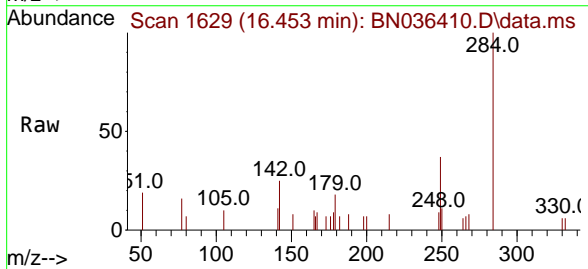
Ion	Ratio	Lower	Upper
248	100		
250	102.3	76.1	114.1
141	58.7	71.7	107.5#

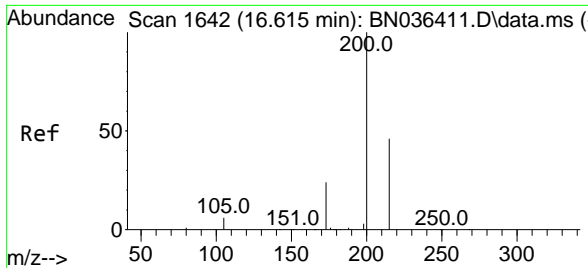


#22
 Hexachlorobenzene
 Concen: 0.166 ng
 RT: 16.453 min Scan# 1629
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion:284 Resp: 1101

Ion	Ratio	Lower	Upper
284	100		
142	39.9	33.4	50.0
249	33.7	28.6	43.0

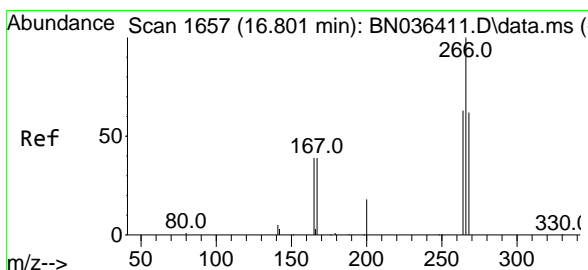
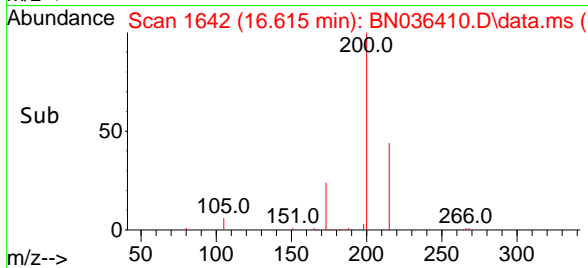
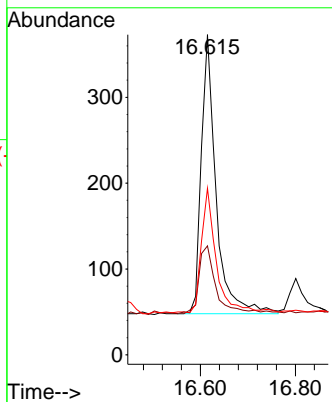
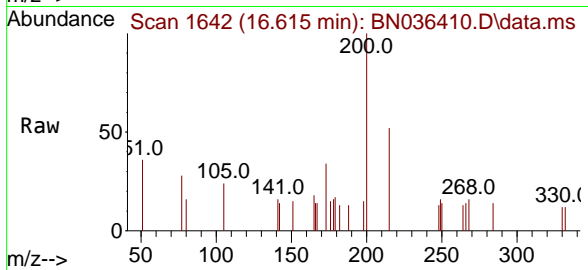




#23
Atrazine
 Concen: 0.188 ng
 RT: 16.615 min Scan# 1642
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

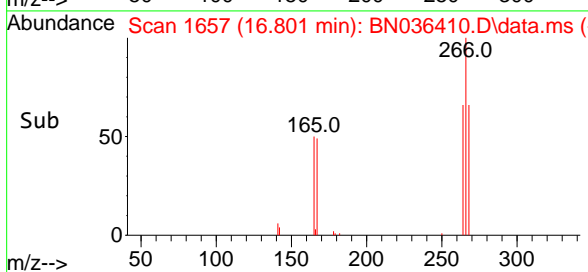
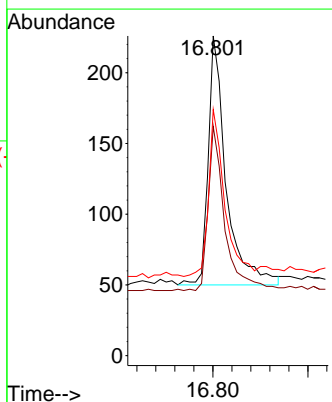
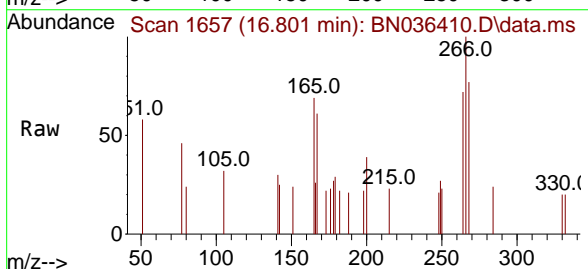
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

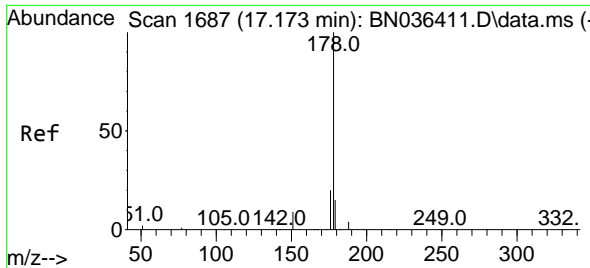
Tgt Ion	Resp	Lower	Upper
200	100		
173	34.0	23.2	34.8
215	52.0	40.0	60.0



#24
Pentachlorophenol
 Concen: 0.159 ng
 RT: 16.801 min Scan# 1657
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion	Resp	Lower	Upper
266	100		
264	60.9	50.6	76.0
268	60.0	51.9	77.9

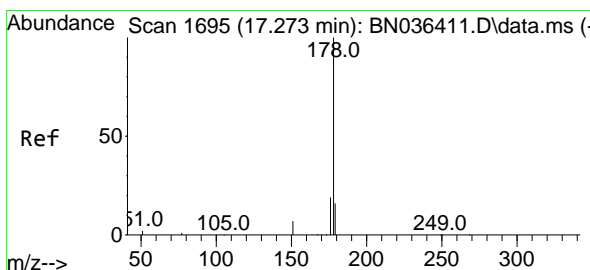
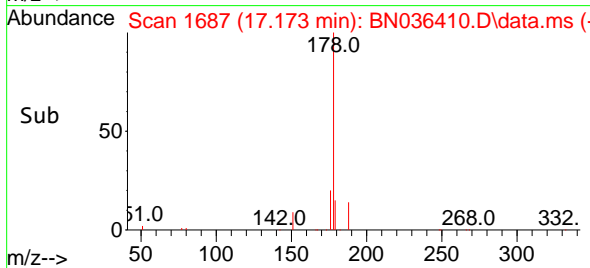
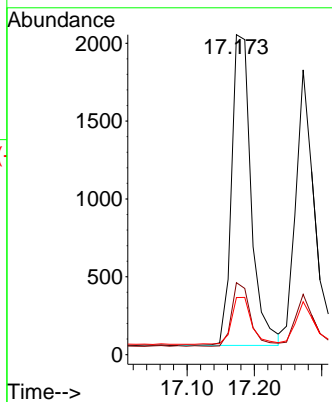
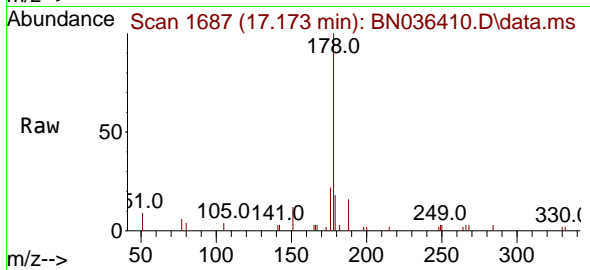




#25
 Phenanthrene
 Concen: 0.186 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

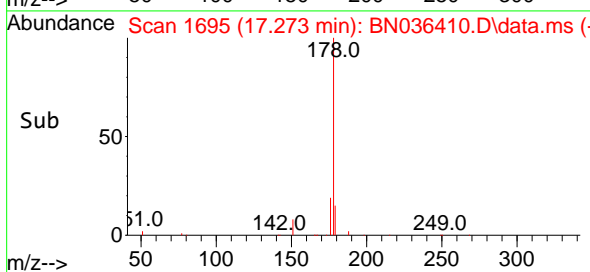
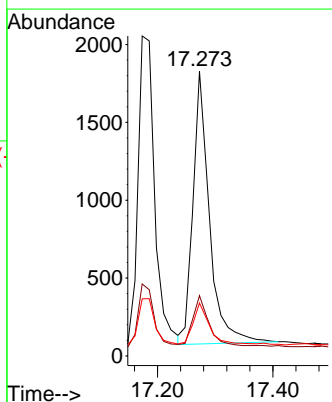
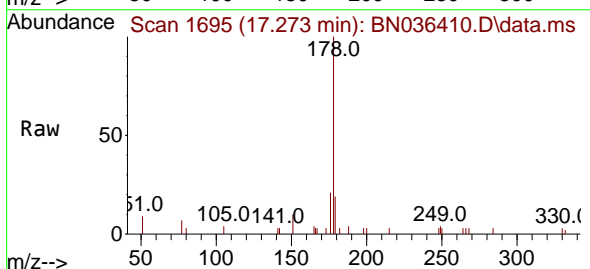
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

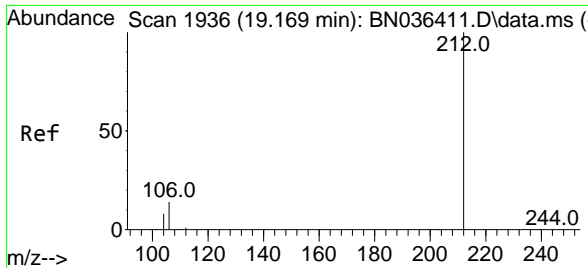
Tgt Ion	Resp	Lower	Upper
178	4051		
176	19.6	15.7	23.5
179	15.3	12.4	18.6



#26
 Anthracene
 Concen: 0.175 ng
 RT: 17.273 min Scan# 1695
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion	Resp	Lower	Upper
178	3467		
176	19.6	14.9	22.3
179	16.5	12.4	18.6



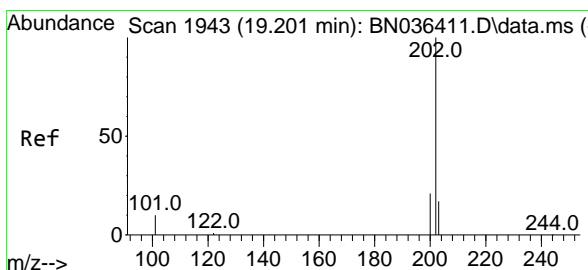
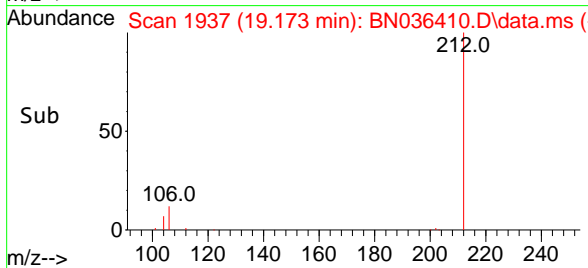
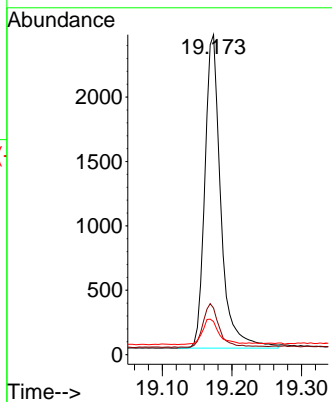
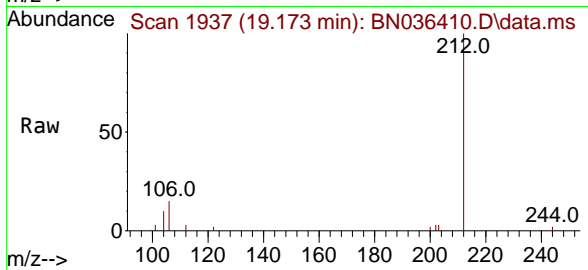


#27
Fluoranthene-d10
Concen: 0.203 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Instrument : BNA_N
Client Sample Id : SSTDICC0.2

Tgt Ion: 212 Resp: 3879

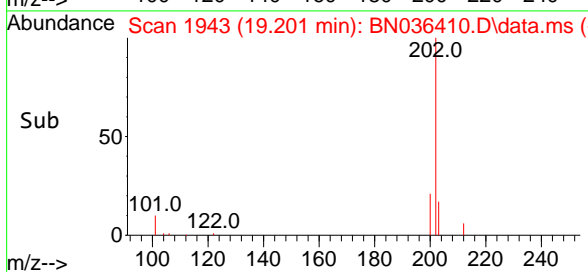
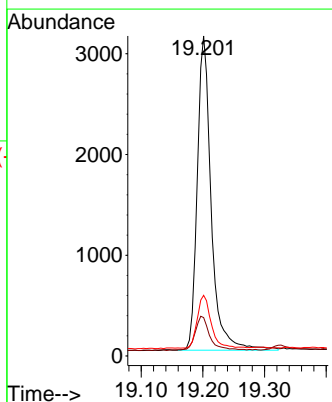
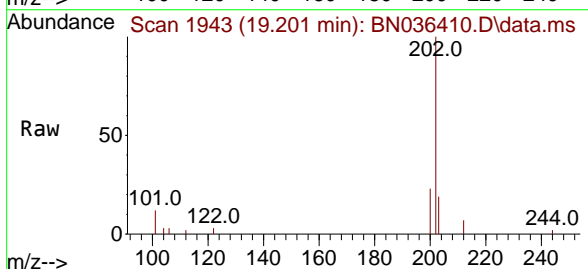
Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.5	17.3
104	8.6	7.1	10.7

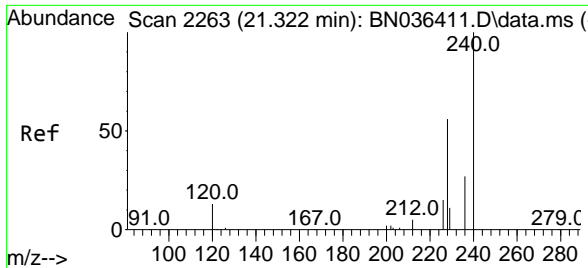


#28
Fluoranthene
Concen: 0.190 ng
RT: 19.201 min Scan# 1943
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion: 202 Resp: 4918

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.2	13.8
203	16.7	13.4	20.0



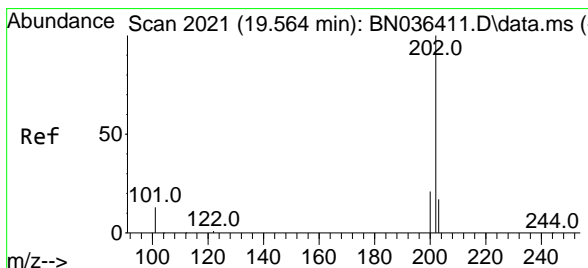
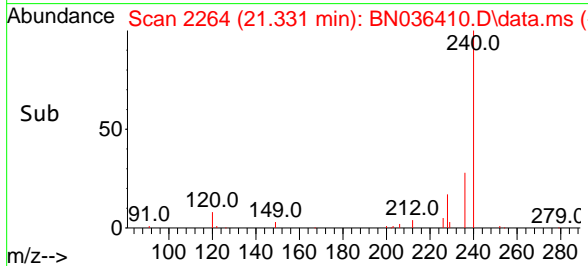
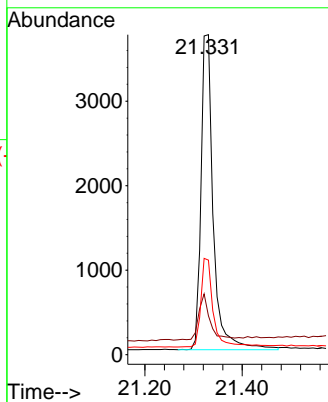
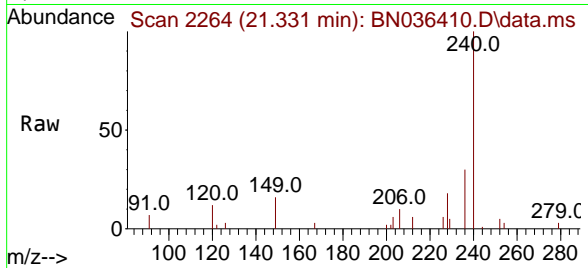


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.331 min Scan# 21
 Delta R.T. 0.009 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:240 Resp: 6531

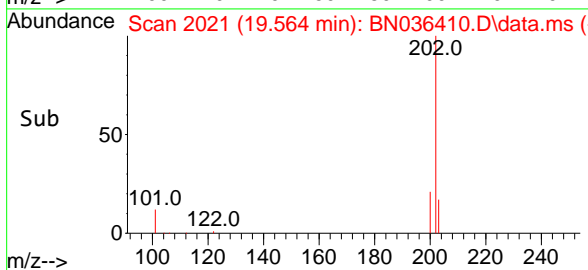
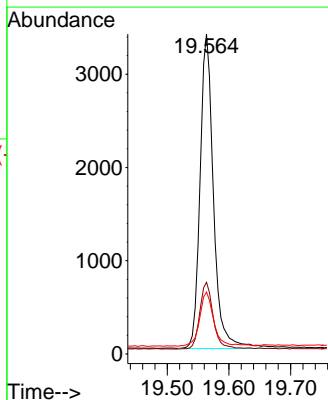
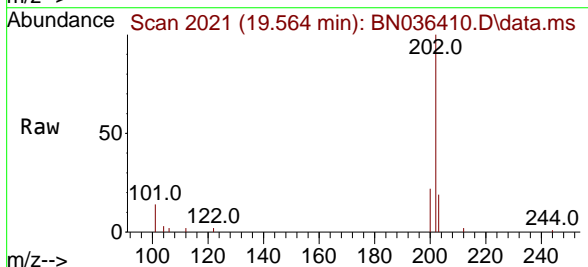
Ion	Ratio	Lower	Upper
240	100		
120	12.1	13.3	19.9#
236	29.5	23.0	34.6

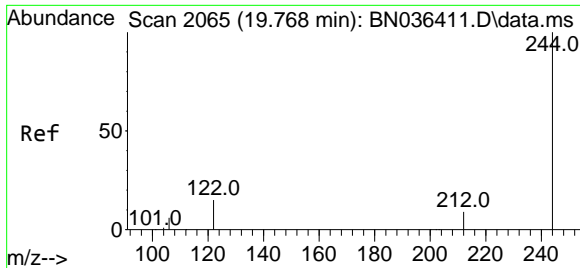


#30
 Pyrene
 Concen: 0.196 ng
 RT: 19.564 min Scan# 2021
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion:202 Resp: 5119

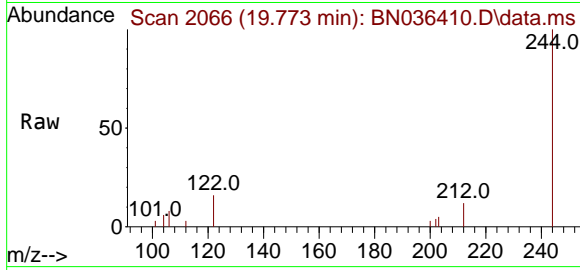
Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.6	13.9	20.9



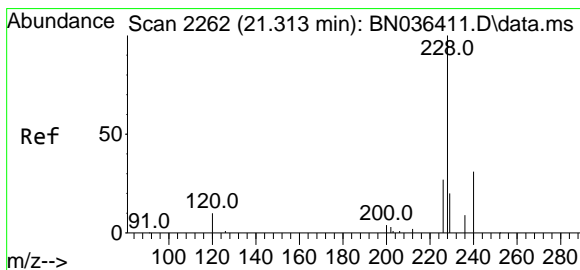
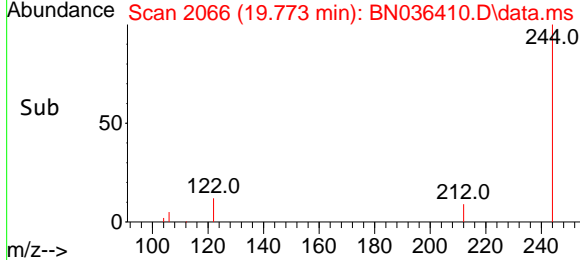
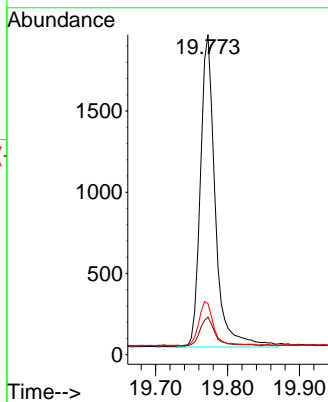


#31
 Terphenyl-d14
 Concen: 0.204 ng
 RT: 19.773 min Scan# 2066
 Delta R.T. 0.005 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument : BNA_N
 Client Sample Id : BN036410.D
 SSTDICC0.2

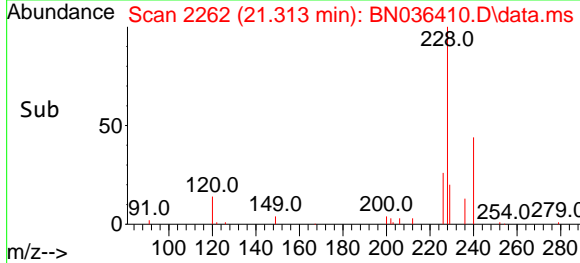
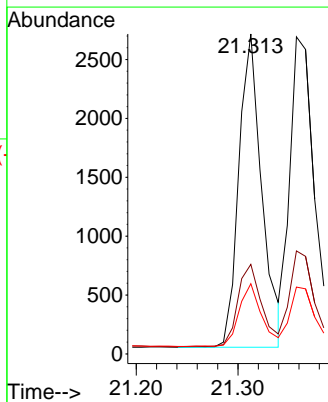
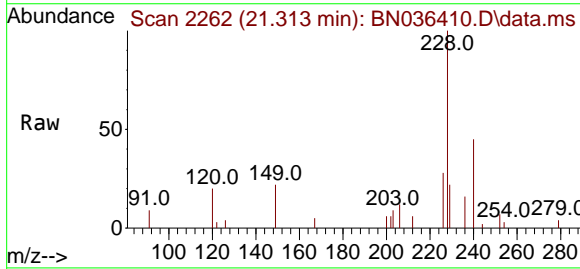


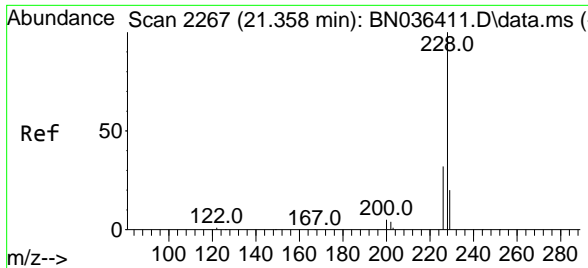
Tgt Ion: 244 Resp: 2765
 Ion Ratio Lower Upper
 244 100
 212 11.8 8.1 12.1
 122 15.9 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.180 ng
 RT: 21.313 min Scan# 2262
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion: 228 Resp: 4166
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.2 33.2
 229 21.9 16.5 24.7

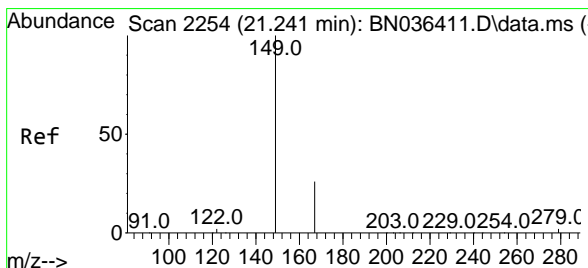
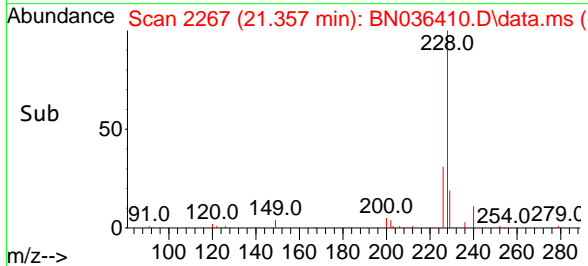
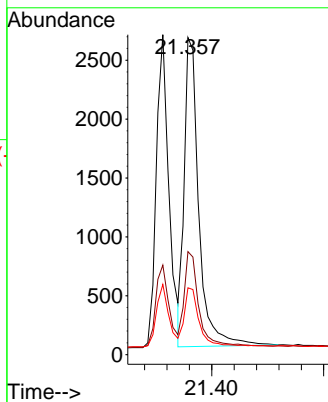
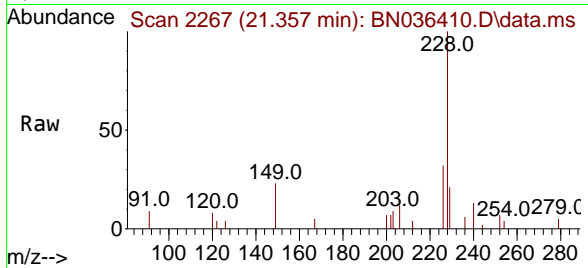




#33
 Chrysene
 Concen: 0.200 ng
 RT: 21.357 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

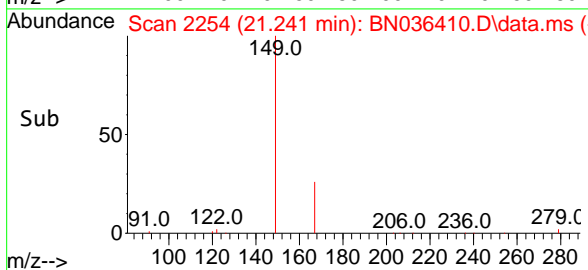
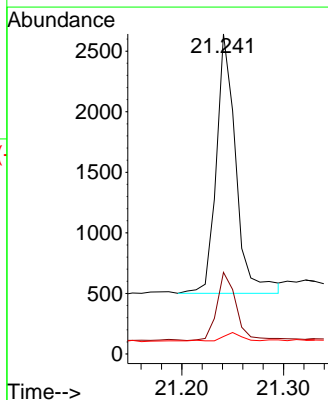
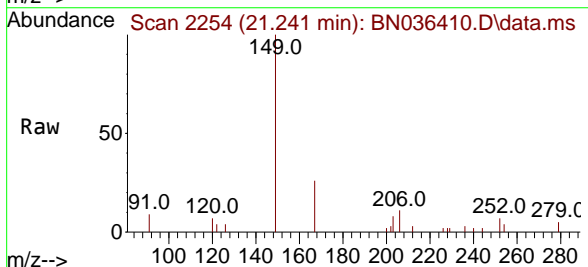
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

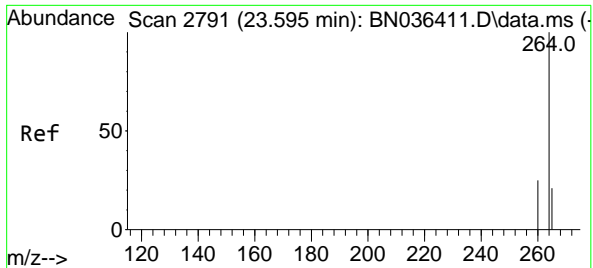
Tgt Ion	Resp	Lower	Upper
228	4754		
226	32.5	25.5	38.3
229	21.1	16.4	24.6



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.221 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion	Resp	Lower	Upper
149	2858		
167	26.6	21.2	31.8
279	2.9	2.7	4.1



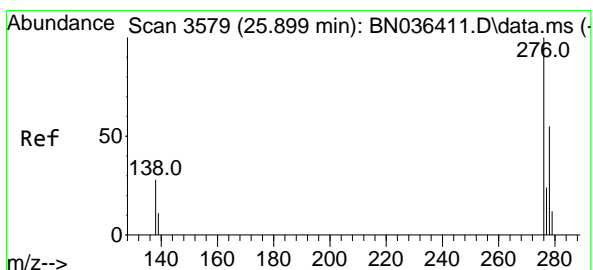
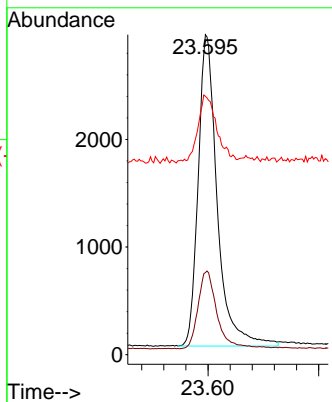
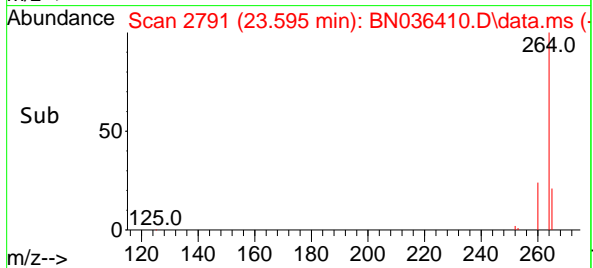
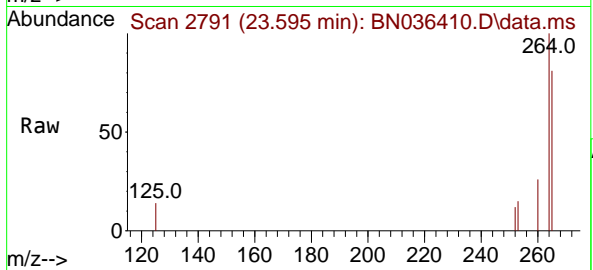


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.595 min Scan# 2111
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

Tgt Ion: 264 Resp: 6918

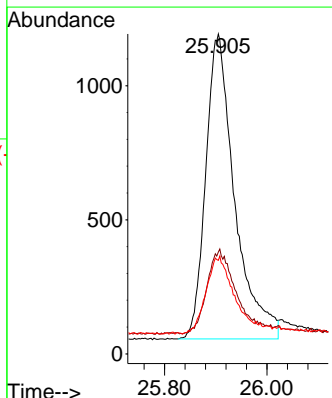
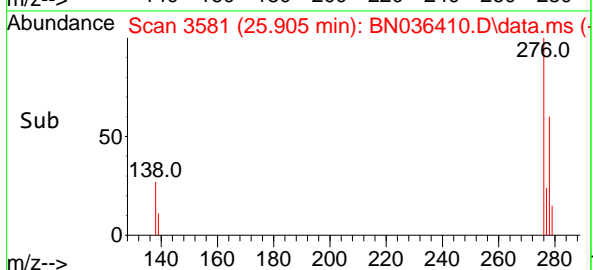
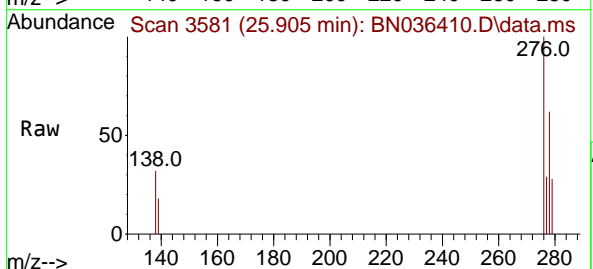
Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.9	31.3
265	80.8	60.7	91.1

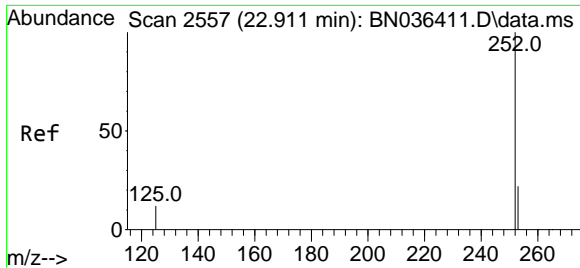


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.164 ng
 RT: 25.905 min Scan# 3581
 Delta R.T. 0.006 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion: 276 Resp: 4459

Ion	Ratio	Lower	Upper
276	100		
138	28.4	22.2	33.2
277	25.1	19.8	29.6

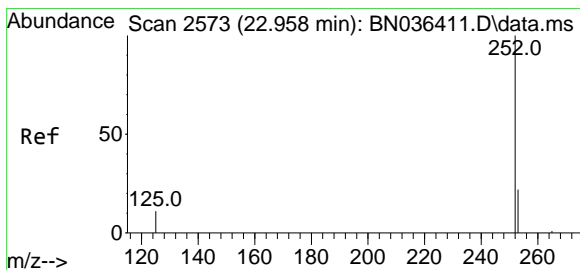
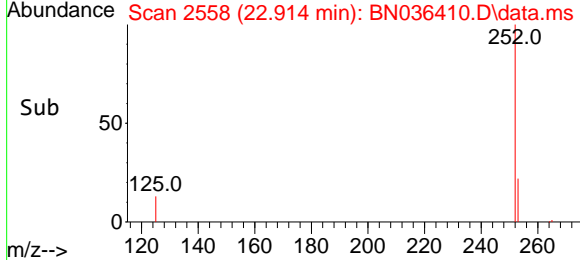
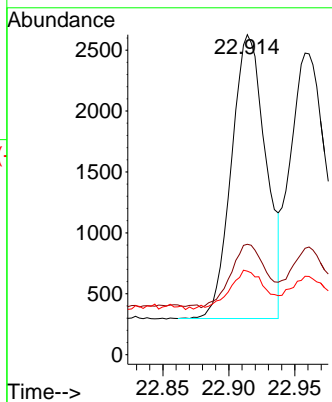
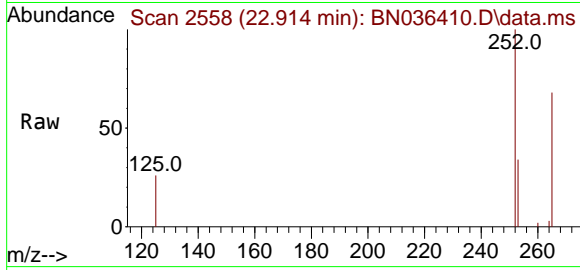




#37
 Benzo(b)fluoranthene
 Concen: 0.172 ng
 RT: 22.914 min Scan# 2558
 Delta R.T. 0.003 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

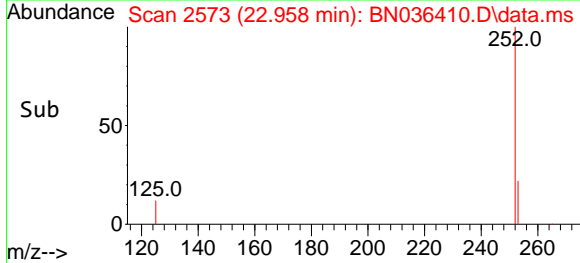
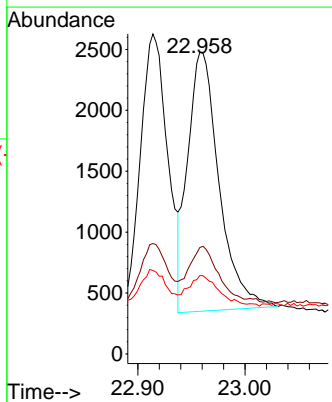
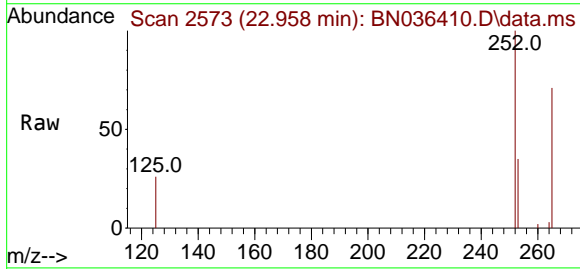
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

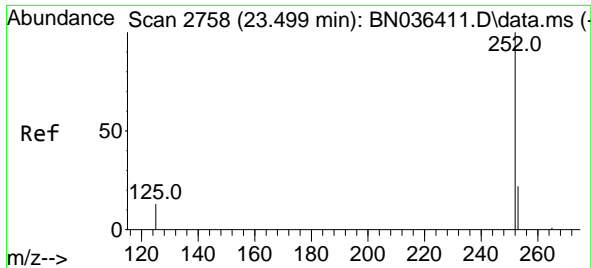
Tgt Ion	Resp	Lower	Upper
252	100		
253	34.5	21.9	32.9#
125	26.1	15.0	22.6#



#38
 Benzo(k)fluoranthene
 Concen: 0.173 ng
 RT: 22.958 min Scan# 2573
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion	Resp	Lower	Upper
252	100		
253	35.3	22.2	33.4#
125	26.0	15.0	22.4#



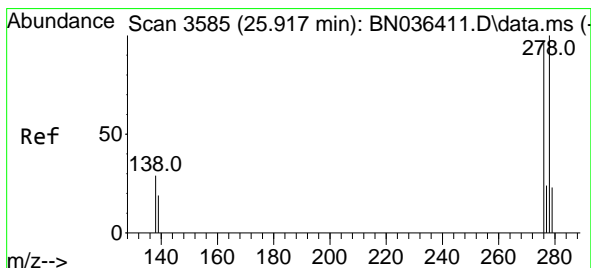
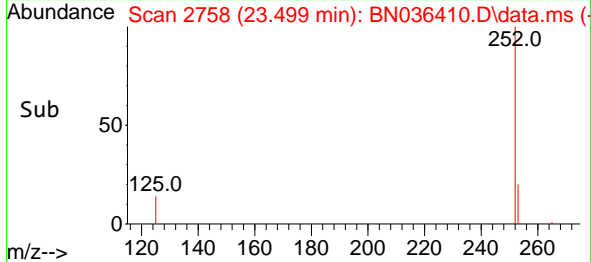
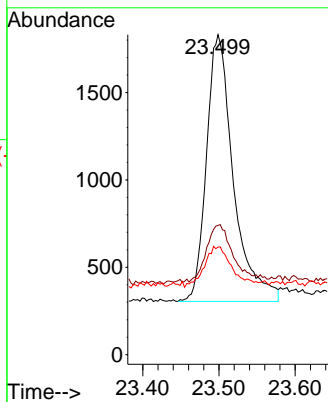
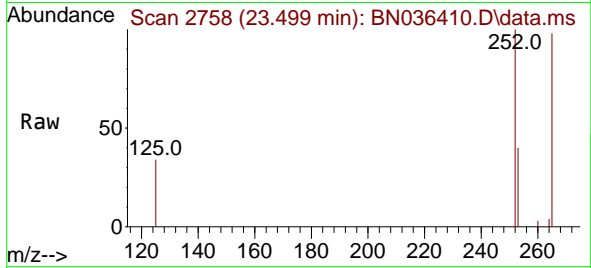


#39
 Benzo(a)pyrene
 Concen: 0.177 ng
 RT: 23.499 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:252 Resp: 3740

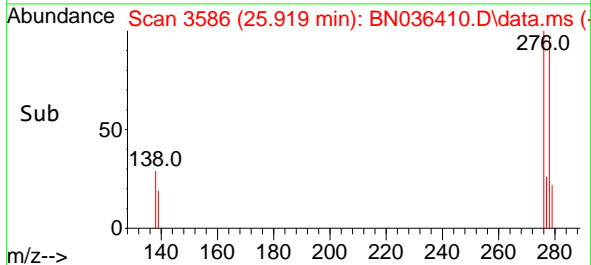
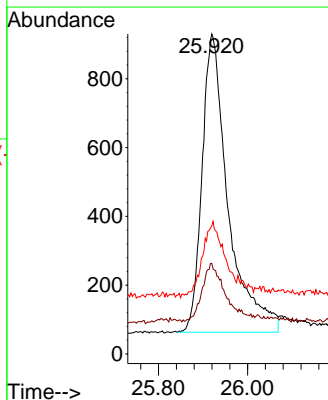
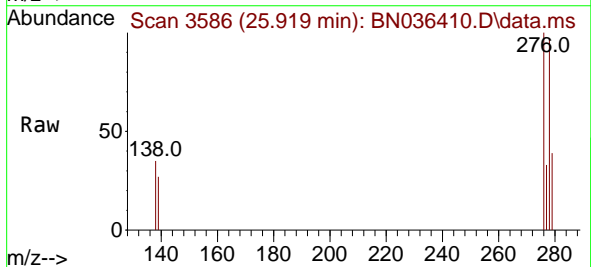
Ion	Ratio	Lower	Upper
252	100		
253	40.4	24.4	36.6#
125	33.6	18.2	27.2#

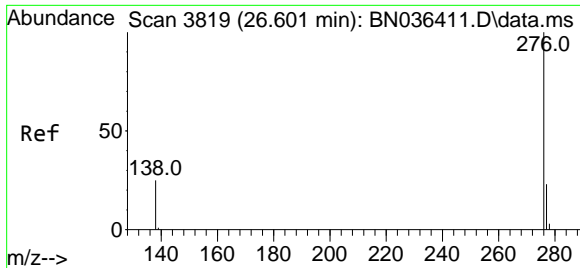


#40
 Dibenzo(a,h)anthracene
 Concen: 0.164 ng
 RT: 25.919 min Scan# 3586
 Delta R.T. 0.003 min
 Lab File: BN036410.D
 Acq: 10 Feb 2025 13:01

Tgt Ion:278 Resp: 3533

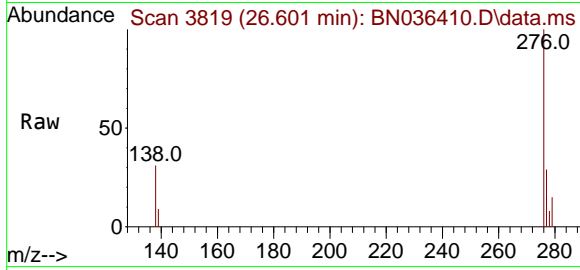
Ion	Ratio	Lower	Upper
278	100		
139	28.3	18.5	27.7#
279	40.0	24.8	37.2#





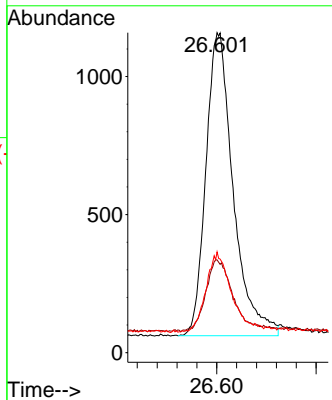
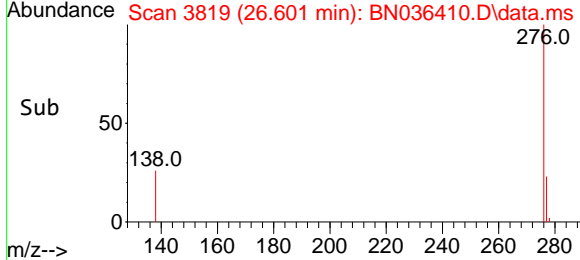
#41
Benzo(g,h,i)perylene
Concen: 0.177 ng
RT: 26.601 min Scan# 3819
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:276 Resp: 4192

Ion	Ratio	Lower	Upper
276	100		
277	29.0	20.7	31.1
138	31.5	21.8	32.6



- 1
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- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036411.D
 Acq On : 10 Feb 2025 13:36
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Feb 11 00:35:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

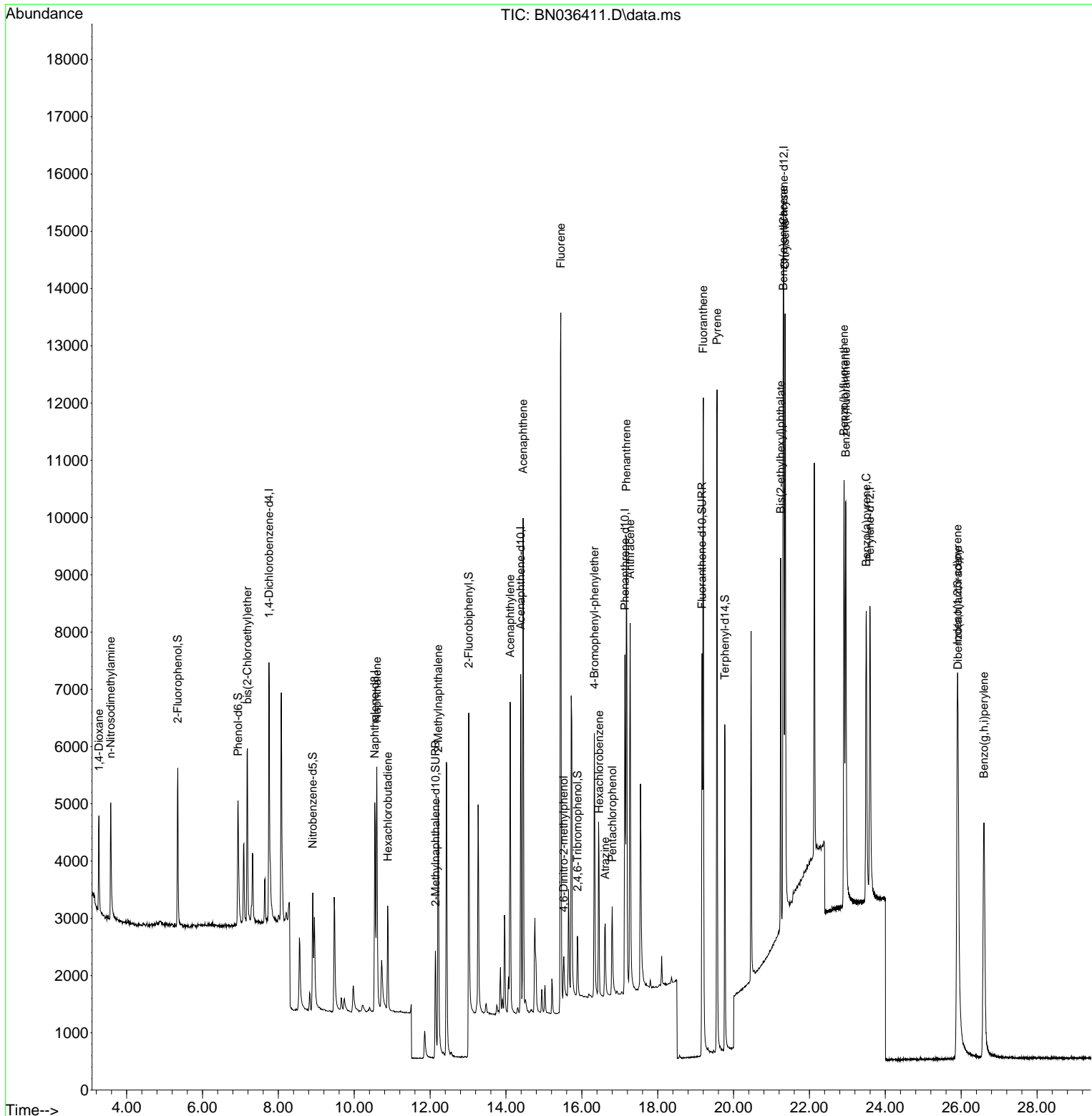
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2219	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	5528	0.400	ng	0.00	
13) Acenaphthene-d10	14.388	164	3606	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	8328	0.400	ng	0.00	
29) Chrysene-d12	21.322	240	7484	0.400	ng	0.00	
35) Perylene-d12	23.595	264	7735	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	2078	0.368	ng	0.00	
5) Phenol-d6	6.937	99	2290	0.348	ng	0.00	
8) Nitrobenzene-d5	8.907	82	2015	0.391	ng	0.00	
11) 2-Methylnaphthalene-d10	12.141	152	3329	0.440	ng	0.00	
14) 2,4,6-Tribromophenol	15.882	330	670	0.302	ng	0.00	
15) 2-Fluorobiphenyl	13.019	172	4965	0.323	ng	0.00	
27) Fluoranthene-d10	19.169	212	8851	0.413	ng	0.00	
31) Terphenyl-d14	19.768	244	6378	0.412	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	961	0.392	ng		99
3) n-Nitrosodimethylamine	3.579	42	1695	0.385	ng		100
6) bis(2-Chloroethyl)ether	7.183	93	2410	0.440	ng		100
9) Naphthalene	10.594	128	6168	0.391	ng		100
10) Hexachlorobutadiene	10.883	225	1567	0.317	ng	#	100
12) 2-Methylnaphthalene	12.212	142	4078	0.411	ng		100
16) Acenaphthylene	14.110	152	6103	0.366	ng		100
17) Acenaphthene	14.452	154	4132	0.362	ng		100
18) Fluorene	15.446	166	5991	0.407	ng		99
20) 4,6-Dinitro-2-methylph...	15.523	198	572	0.307	ng		100
21) 4-Bromophenyl-phenylether	16.329	248	1920	0.337	ng		100
22) Hexachlorobenzene	16.453	284	2369	0.318	ng		100
23) Atrazine	16.615	200	1560	0.372	ng		100
24) Pentachlorophenol	16.801	266	1018	0.313	ng		99
25) Phenanthrene	17.173	178	9119	0.374	ng		100
26) Anthracene	17.273	178	8056	0.363	ng		100
28) Fluoranthene	19.201	202	11264	0.389	ng		100
30) Pyrene	19.564	202	11479	0.384	ng		100
32) Benzo(a)anthracene	21.313	228	9677	0.364	ng		100
33) Chrysene	21.358	228	10178	0.373	ng		100
34) Bis(2-ethylhexyl)phtha...	21.241	149	5815	0.392	ng		100
36) Indeno(1,2,3-cd)pyrene	25.899	276	10661	0.351	ng		100
37) Benzo(b)fluoranthene	22.911	252	9743	0.355	ng		100
38) Benzo(k)fluoranthene	22.958	252	10543	0.377	ng		100
39) Benzo(a)pyrene	23.499	252	8521	0.362	ng		100
40) Dibenzo(a,h)anthracene	25.917	278	8314	0.344	ng		100
41) Benzo(g,h,i)perylene	26.601	276	9701	0.366	ng		100

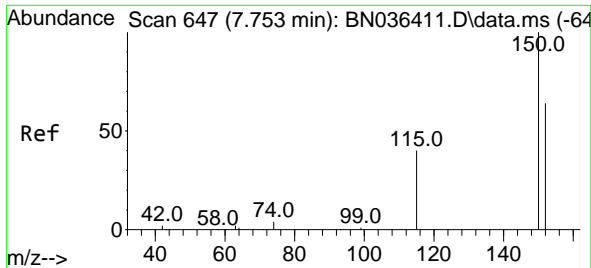
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036411.D
 Acq On : 10 Feb 2025 13:36
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Feb 11 00:35:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration



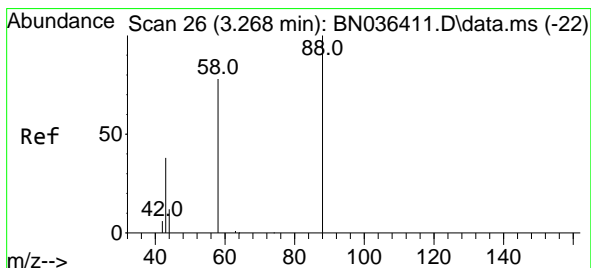
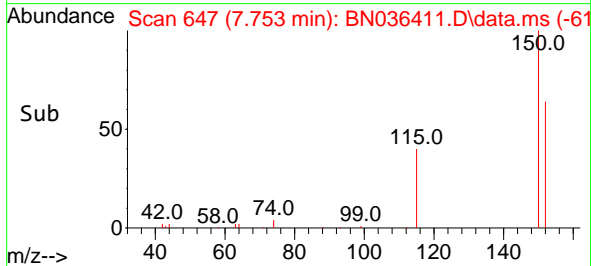
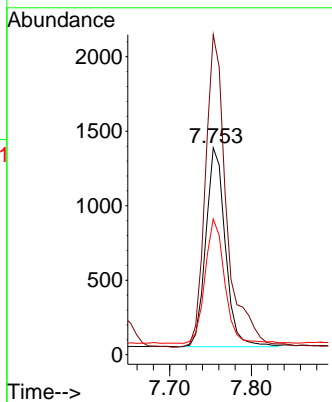
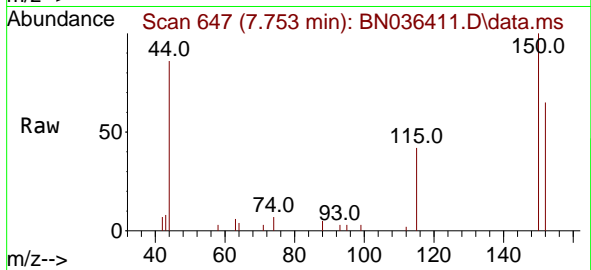


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

Tgt Ion: 152 Resp: 2219

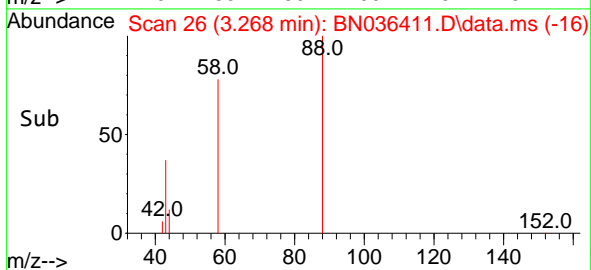
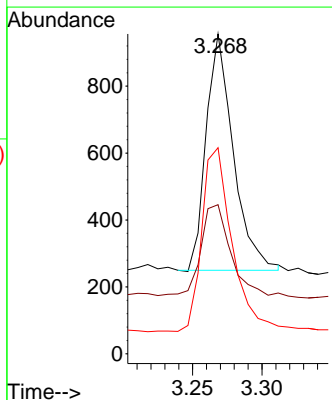
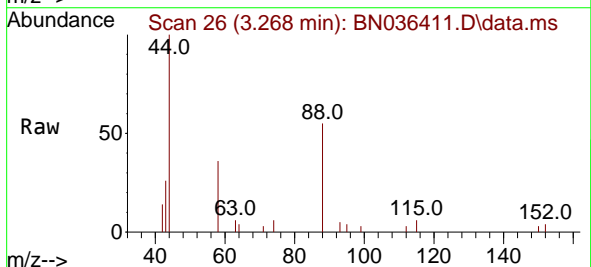
Ion	Ratio	Lower	Upper
152	100		
150	154.6	123.7	185.5
115	65.6	52.5	78.7

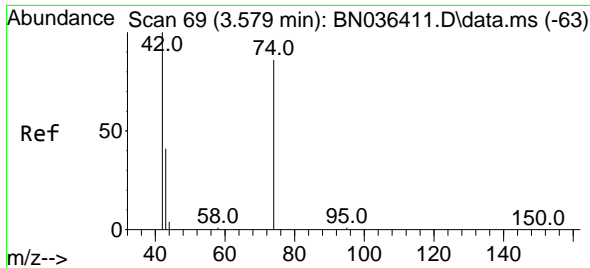


#2
 1,4-Dioxane
 Concen: 0.392 ng
 RT: 3.268 min Scan# 26
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion: 88 Resp: 961

Ion	Ratio	Lower	Upper
88	100		
43	41.4	33.7	50.5
58	87.1	68.9	103.3

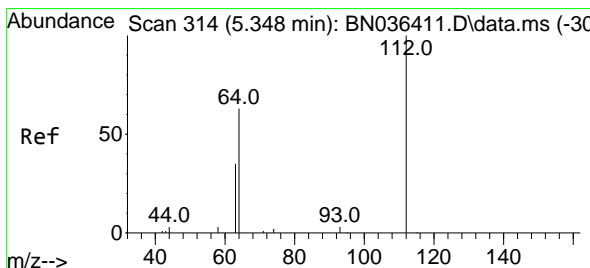
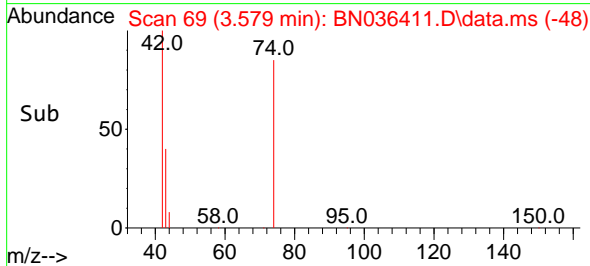
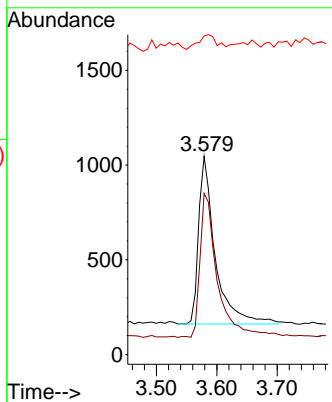
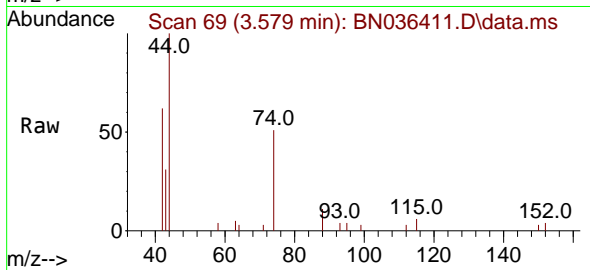




#3
 n-Nitrosodimethylamine
 Concen: 0.385 ng
 RT: 3.579 min Scan# 69
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

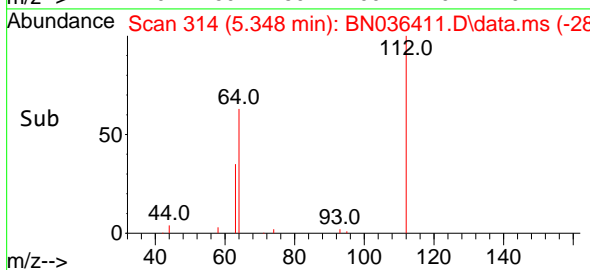
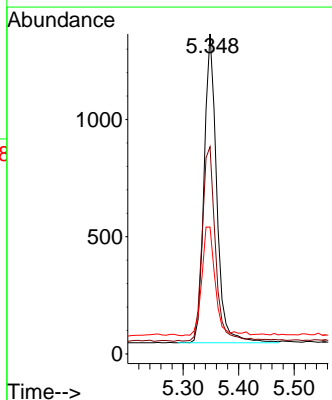
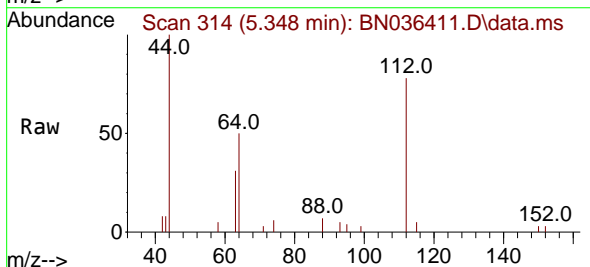
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

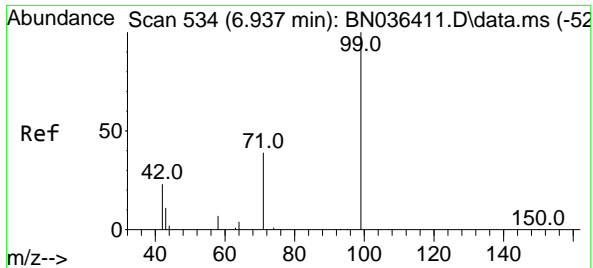
Tgt Ion	Resp	Ion Ratio	Lower	Upper
42	1695	100		
74		89.7	71.8	107.6
44		9.7	7.8	11.6



#4
 2-Fluorophenol
 Concen: 0.368 ng
 RT: 5.348 min Scan# 314
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
112	2078	100		
64		66.7	53.4	80.0
63		37.9	30.3	45.5

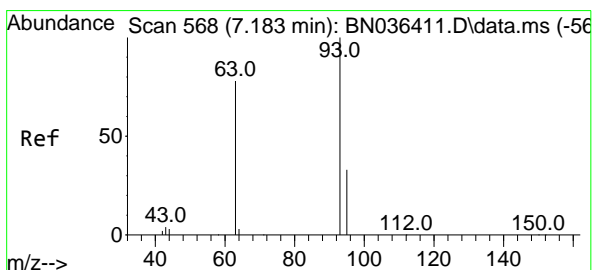
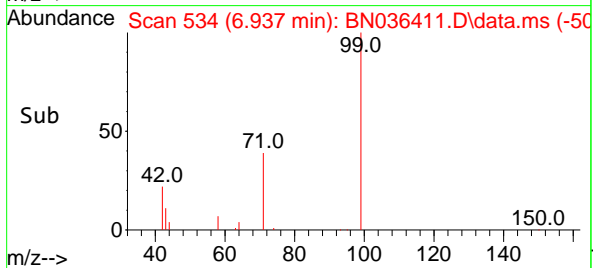
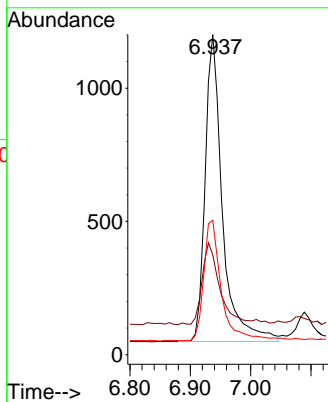
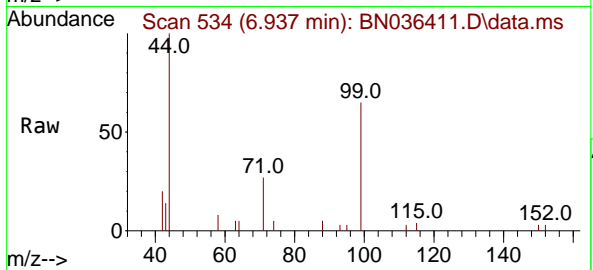




#5
 Phenol-d6
 Concen: 0.348 ng
 RT: 6.937 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

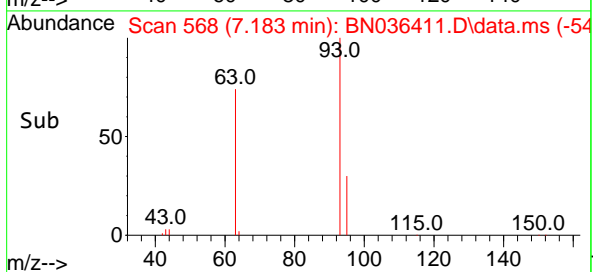
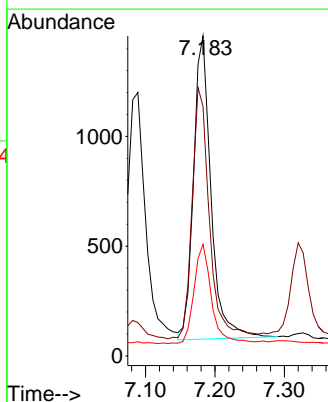
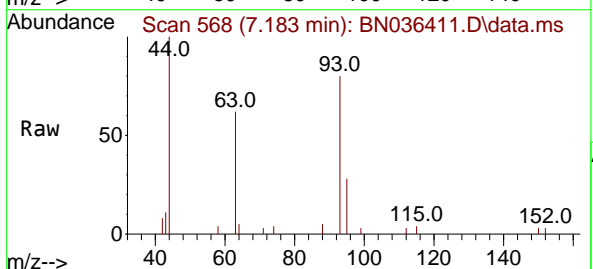
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

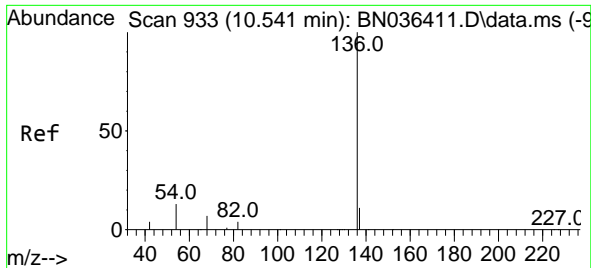
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	2290	100		
42		27.1	21.7	32.5
71		40.8	32.6	49.0



#6
 bis(2-Chloroethyl)ether
 Concen: 0.440 ng
 RT: 7.183 min Scan# 568
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	2410	100		
63		82.9	66.3	99.5
95		32.8	26.2	39.4



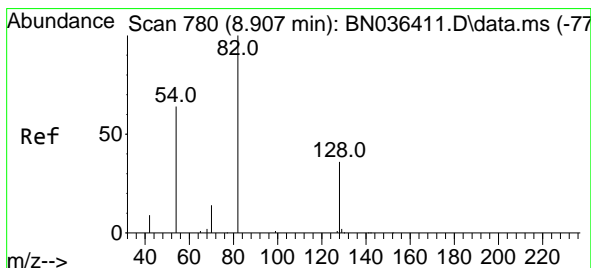
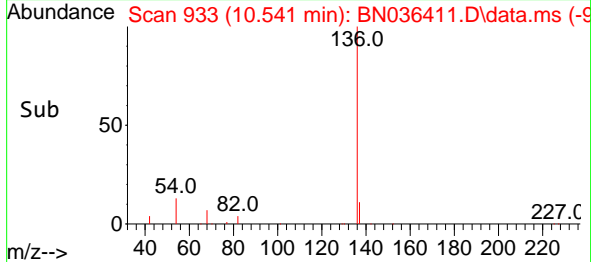
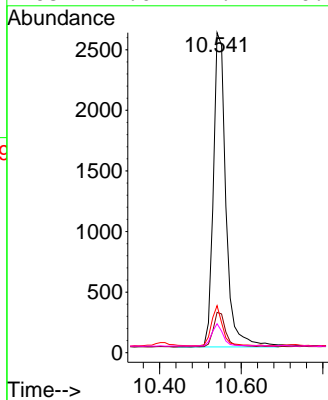
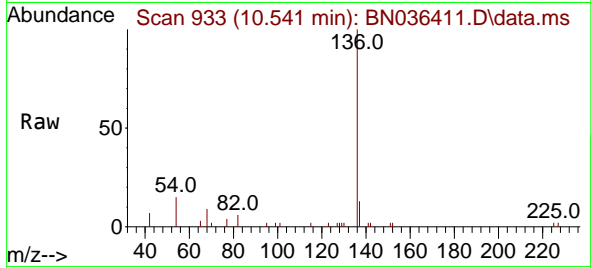


#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Tgt Ion:136 Resp: 5528

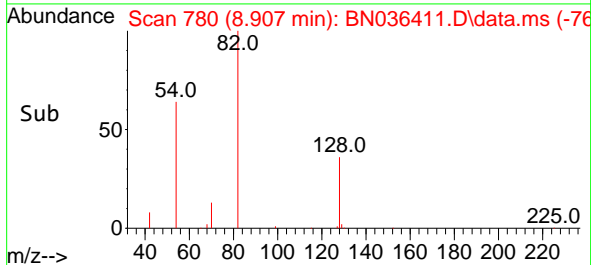
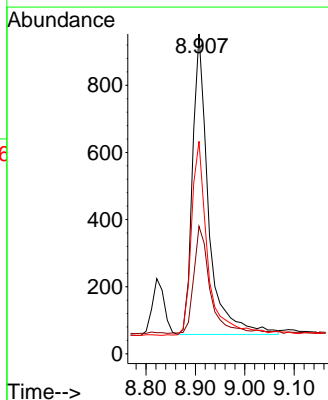
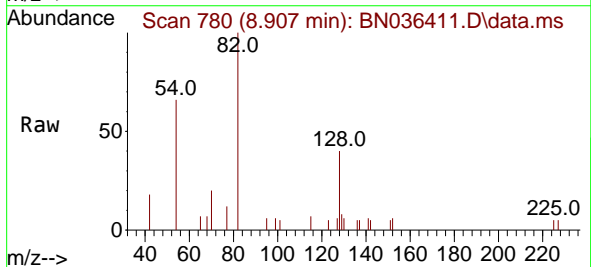
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.1	15.1
54	14.7	11.8	17.6
68	9.0	7.2	10.8

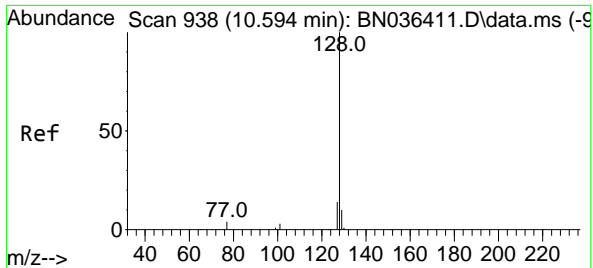


#8
 Nitrobenzene-d5
 Concen: 0.391 ng
 RT: 8.907 min Scan# 780
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion: 82 Resp: 2015

Ion	Ratio	Lower	Upper
82	100		
128	39.9	31.9	47.9
54	66.4	53.1	79.7

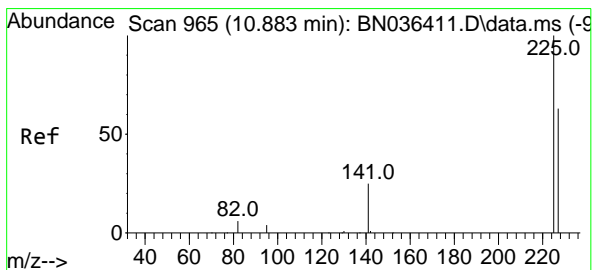
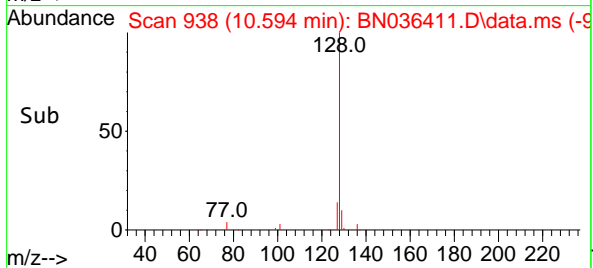
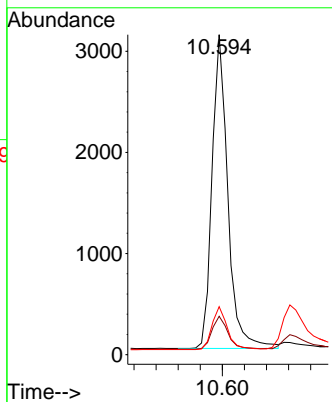
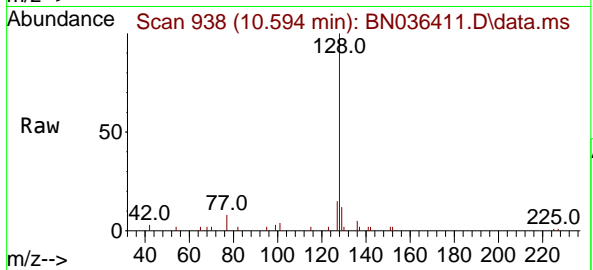




#9
Naphthalene
 Concen: 0.391 ng
 RT: 10.594 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

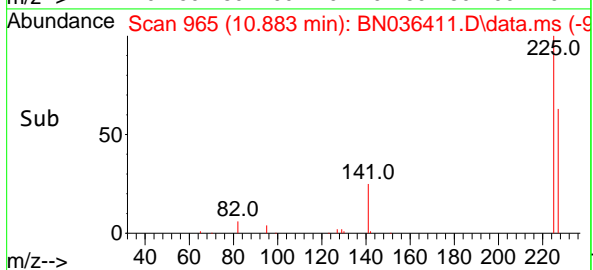
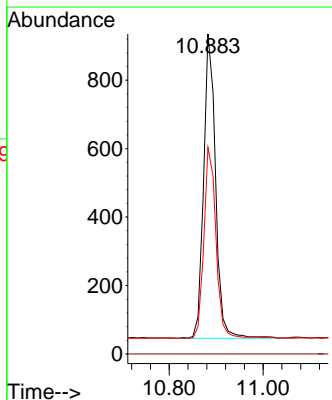
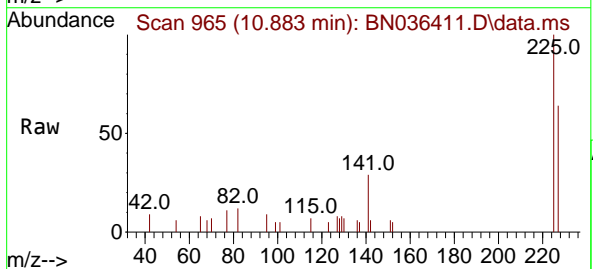
Instrument :
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ClientSampleId :
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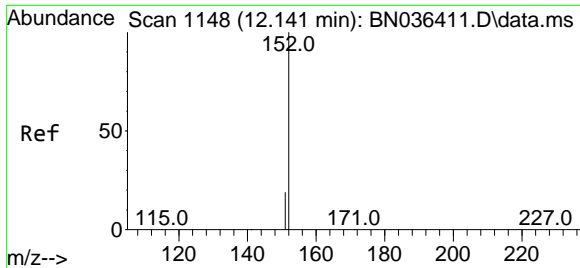
Tgt Ion	Resp	Lower	Upper
128	6168		
129	12.0	9.6	14.4
127	15.0	12.0	18.0



#10
Hexachlorobutadiene
 Concen: 0.317 ng
 RT: 10.883 min Scan# 965
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Lower	Upper
225	1567		
223	0.0	0.0	0.0
227	63.6	50.9	76.3

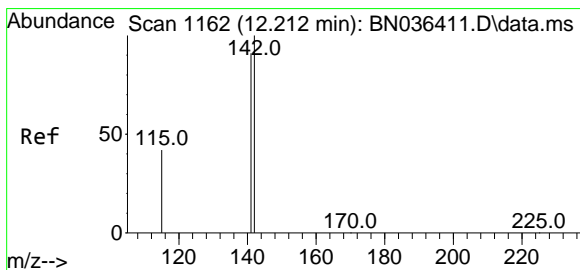
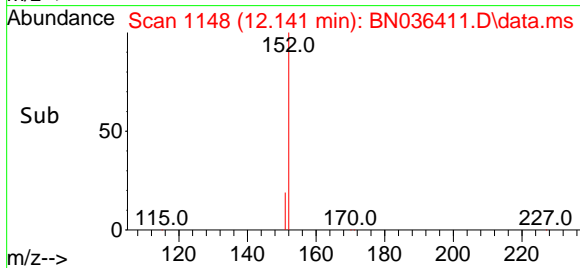
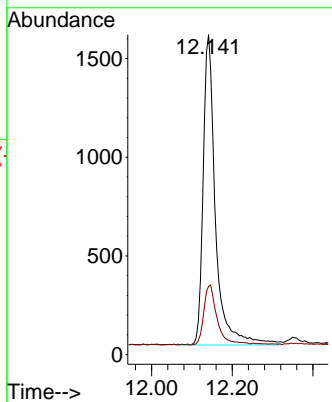
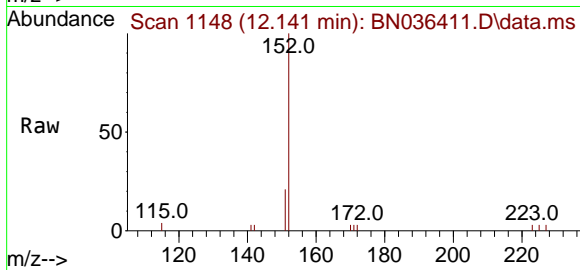




#11
 2-Methylnaphthalene-d10
 Concen: 0.440 ng
 RT: 12.141 min Scan# 1148
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

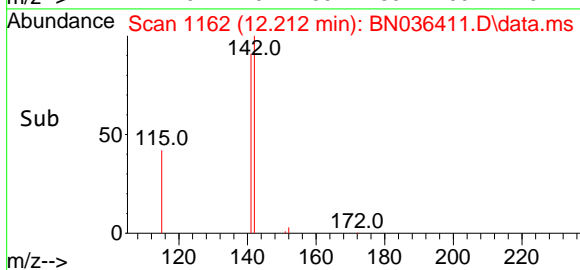
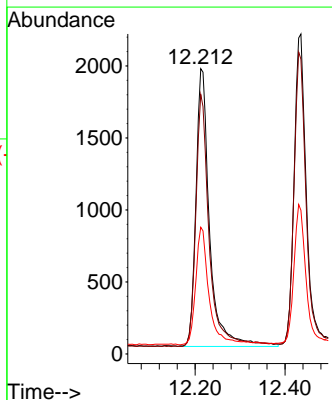
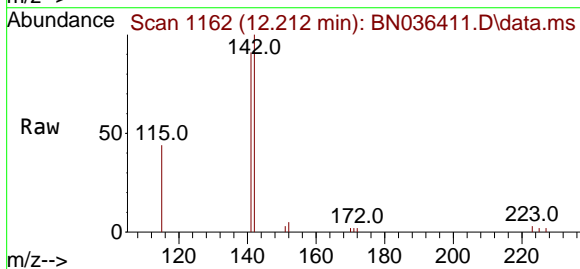
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

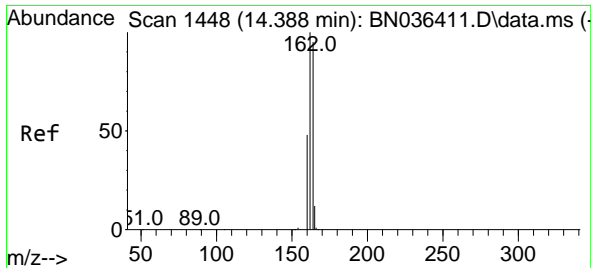
Tgt Ion:152 Resp: 3329
 Ion Ratio Lower Upper
 152 100
 151 20.8 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.411 ng
 RT: 12.212 min Scan# 1162
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion:142 Resp: 4078
 Ion Ratio Lower Upper
 142 100
 141 91.0 72.8 109.2
 115 44.4 35.5 53.3



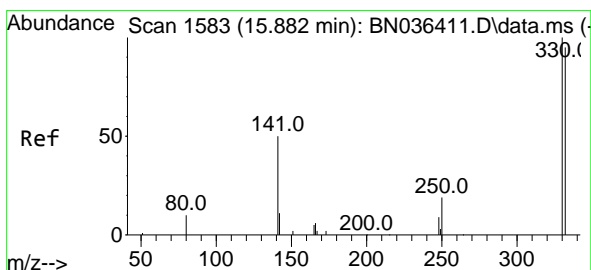
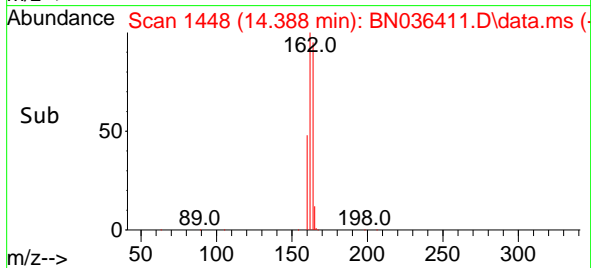
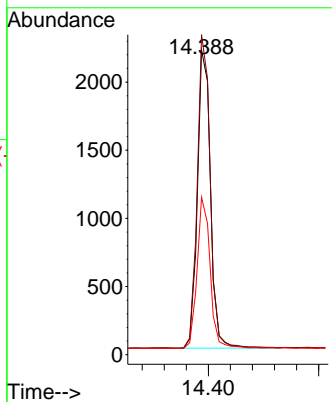
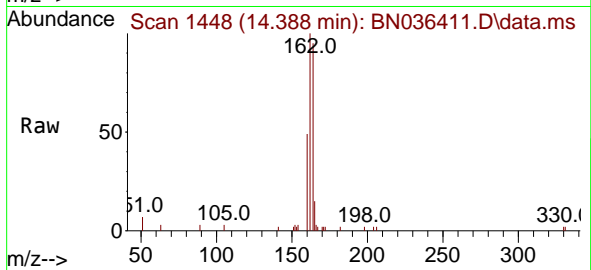


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.388 min Scan# 14
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

Tgt Ion:164 Resp: 3606

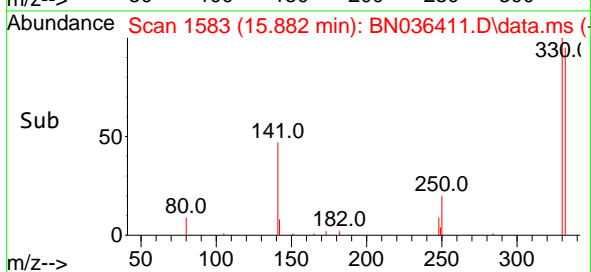
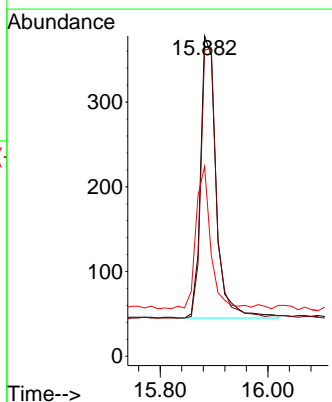
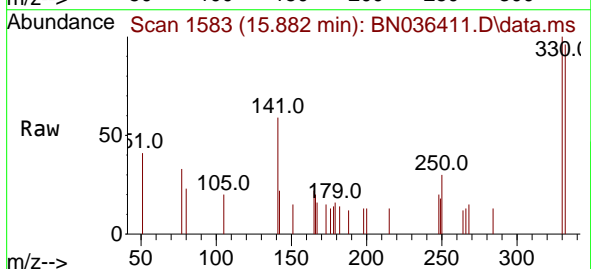
Ion	Ratio	Lower	Upper
164	100		
162	105.1	84.1	126.1
160	51.7	41.4	62.0

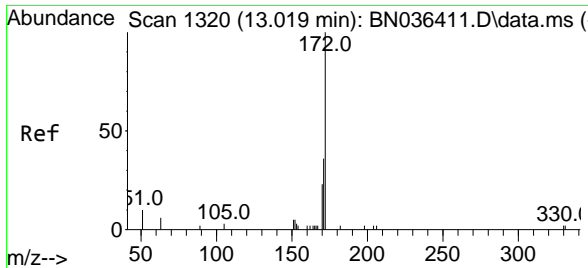


#14
 2,4,6-Tribromophenol
 Concen: 0.302 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion:330 Resp: 670

Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.6	114.8
141	47.3	37.8	56.8

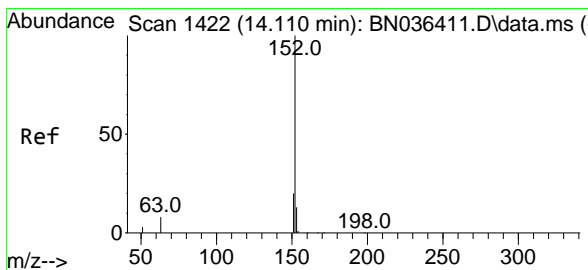
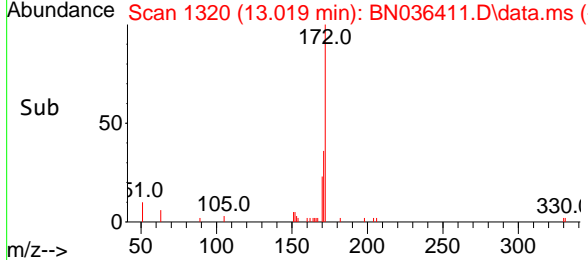
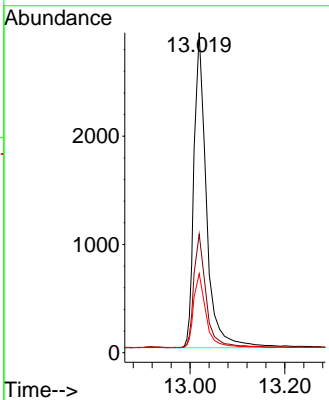
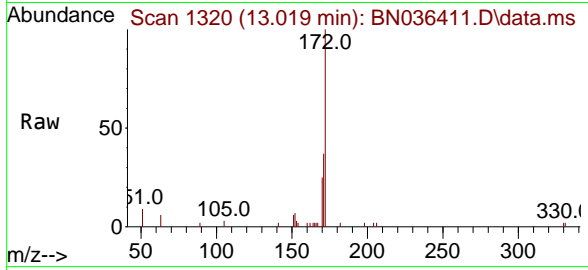




#15
 2-Fluorobiphenyl
 Concen: 0.323 ng
 RT: 13.019 min Scan# 111
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

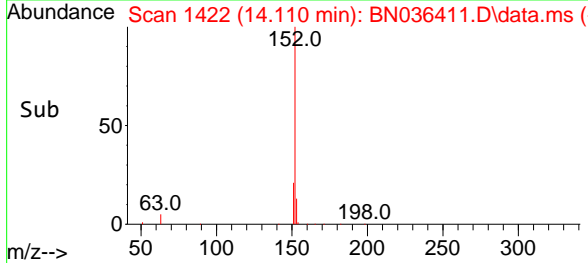
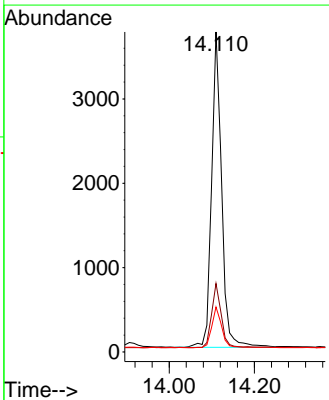
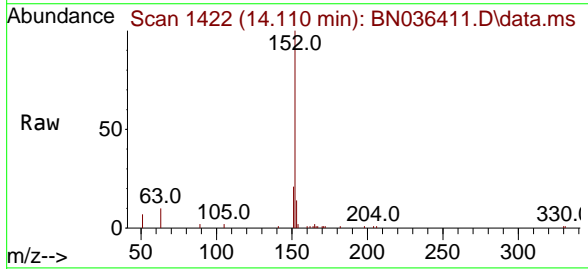
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

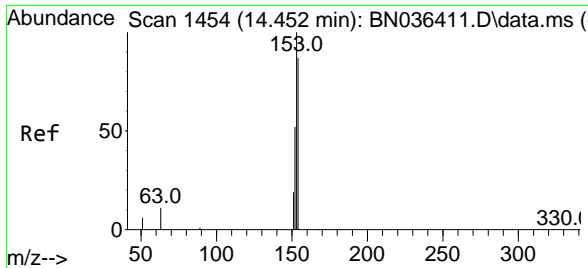
Tgt Ion	Resp	Ion Ratio	Lower	Upper
172	4965	100		
171	37.0	29.6	29.6	44.4
170	24.7	19.8	19.8	29.6



#16
 Acenaphthylene
 Concen: 0.366 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
152	6103	100		
151	19.8	15.8	15.8	23.8
153	12.7	10.2	10.2	15.2

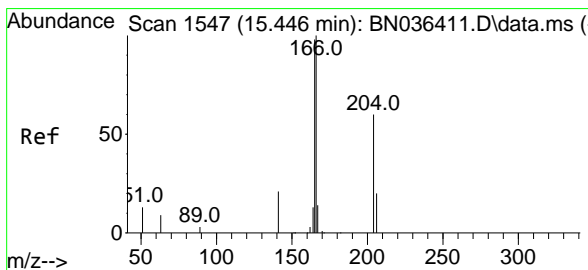
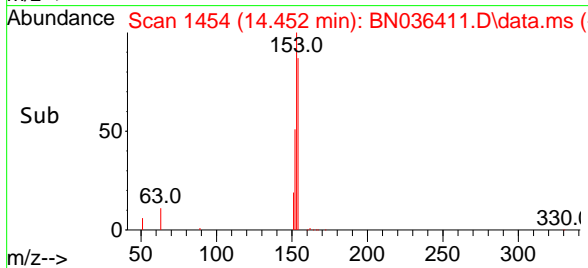
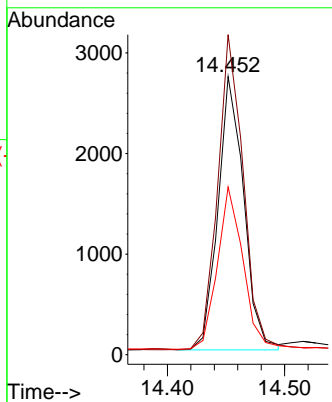
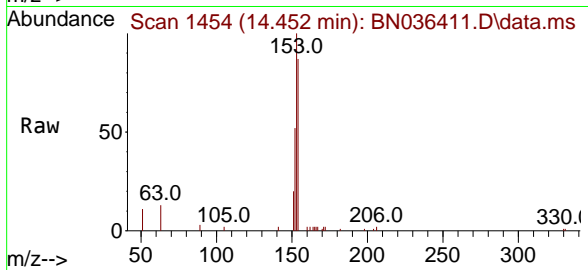




#17
Acenaphthene
Concen: 0.362 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

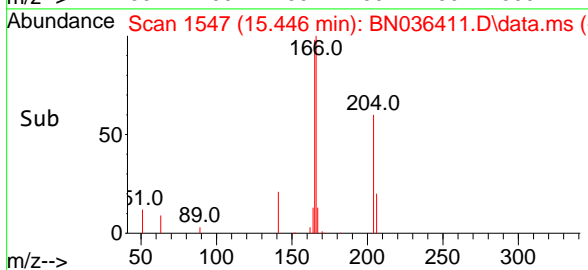
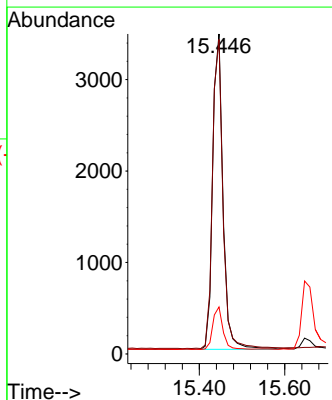
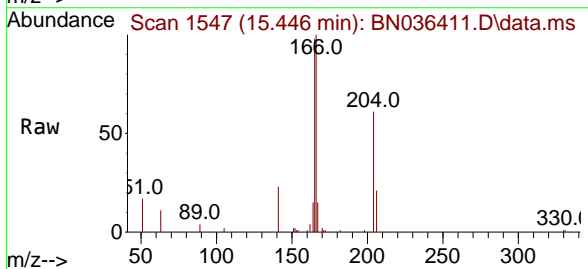
Instrument : BNA_N
Client Sample Id : SSTDICCC0.4

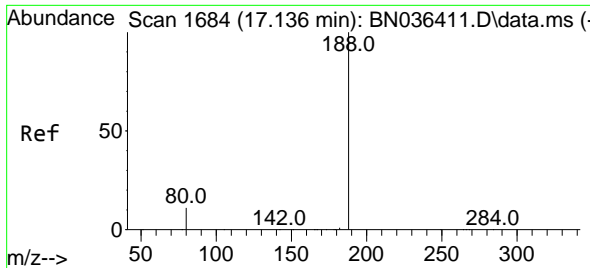
Tgt Ion	Resp	Lower	Upper
154	4132	100	
153	116.6	93.3	139.9
152	61.0	48.8	73.2



#18
Fluorene
Concen: 0.407 ng
RT: 15.446 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Lower	Upper
166	5991	100	
165	100.0	79.5	119.3
167	13.0	10.4	15.6

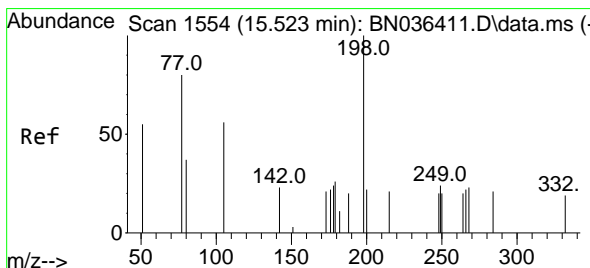
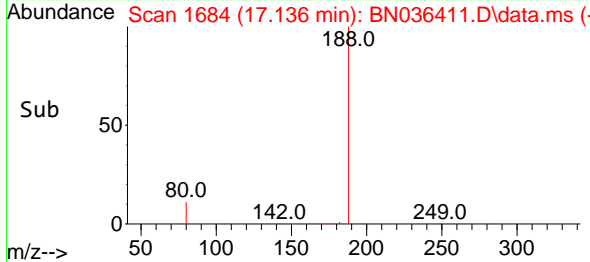
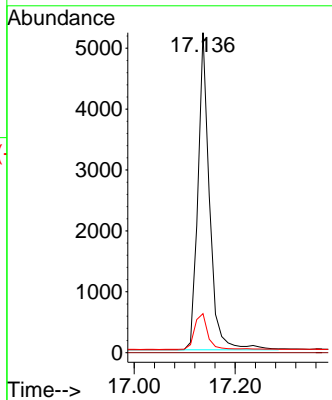
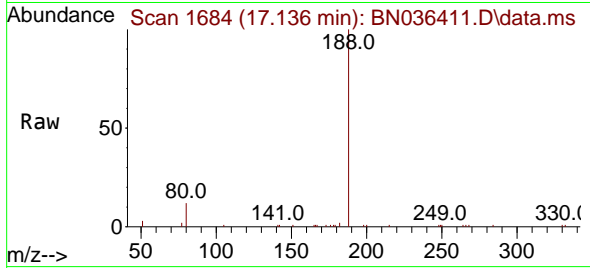




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

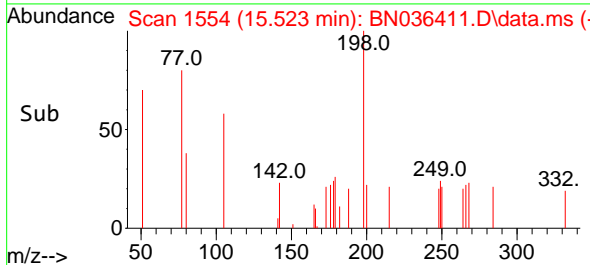
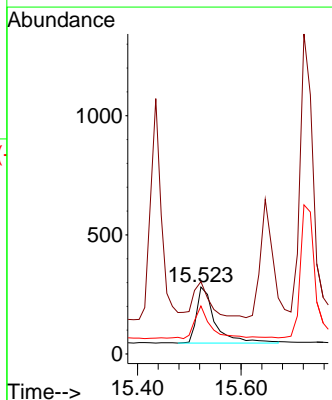
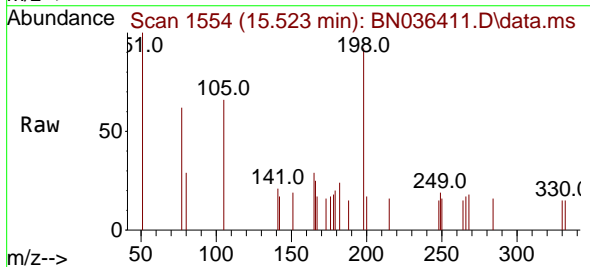
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

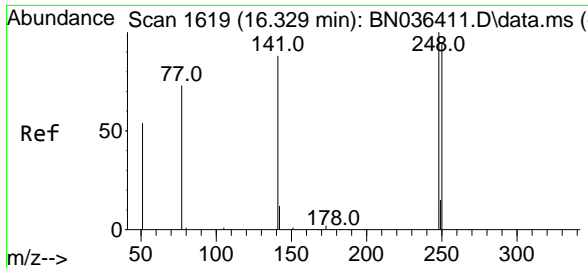
Tgt Ion	Resp	Ion Ratio	Lower	Upper
188	8328	100		
94		0.0	0.0	0.0
80		12.2	9.8	14.6



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.307 ng
 RT: 15.523 min Scan# 1554
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
198	572	100		
51		108.2	86.6	129.8
105		71.9	57.5	86.3



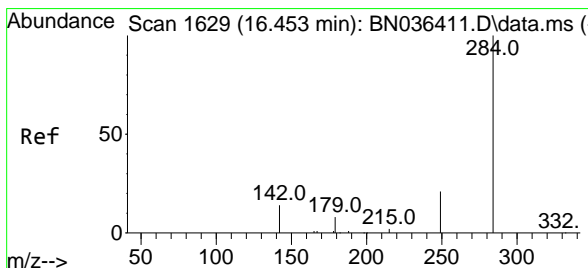
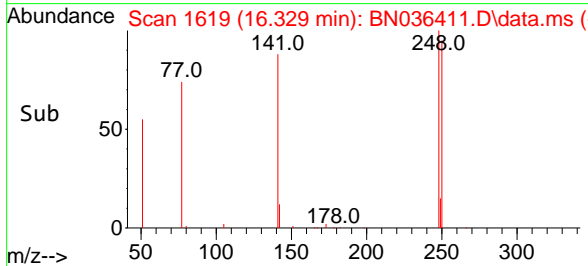
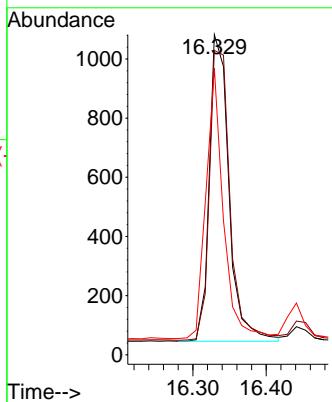
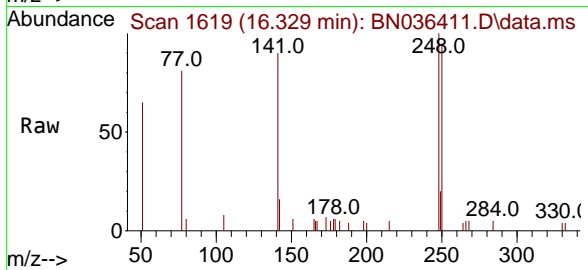


#21
 4-Bromophenyl-phenylether
 Concen: 0.337 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

Tgt Ion: 248 Resp: 1920

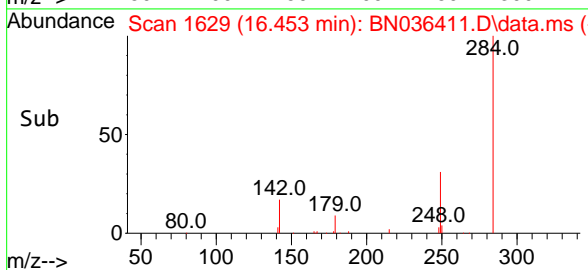
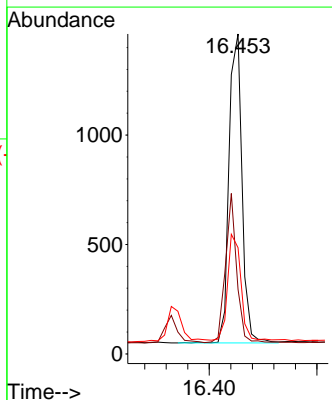
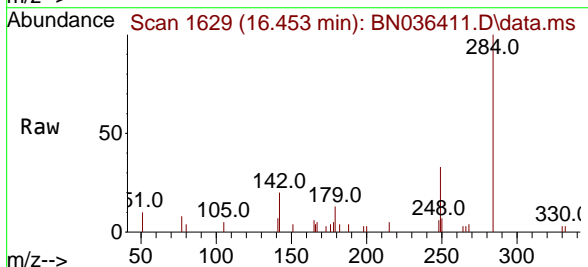
Ion	Ratio	Lower	Upper
248	100		
250	95.1	76.1	114.1
141	89.6	71.7	107.5

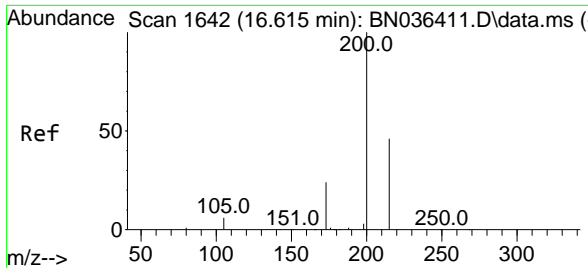


#22
 Hexachlorobenzene
 Concen: 0.318 ng
 RT: 16.453 min Scan# 1629
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion: 284 Resp: 2369

Ion	Ratio	Lower	Upper
284	100		
142	41.7	33.4	50.0
249	35.4	28.6	43.0

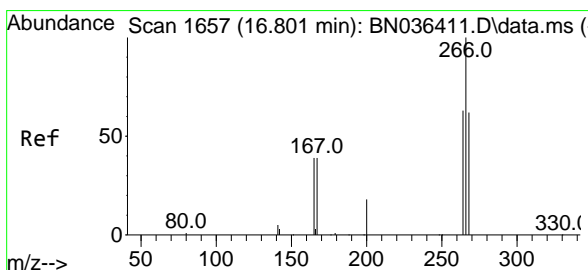
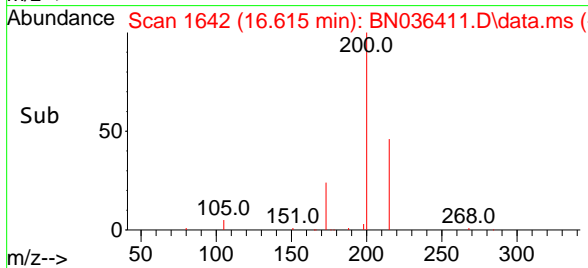
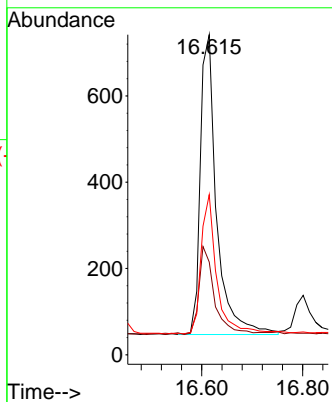
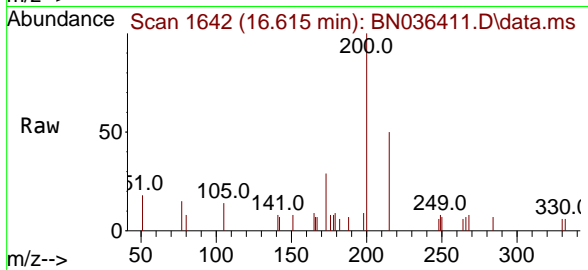




#23
 Atrazine
 Concen: 0.372 ng
 RT: 16.615 min Scan# 1642
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

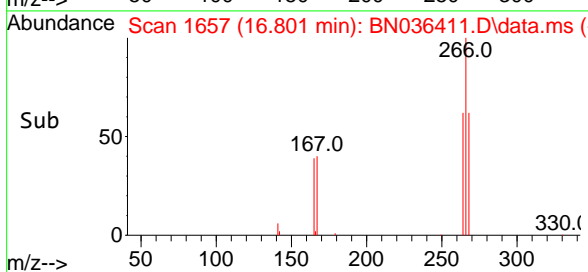
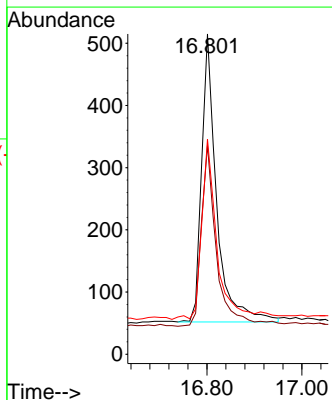
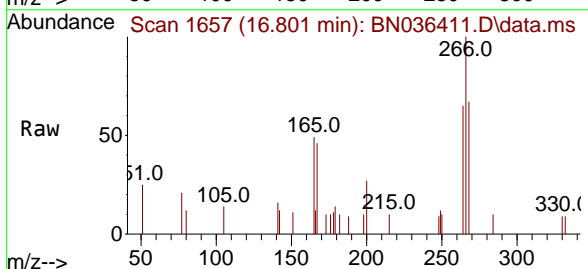
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

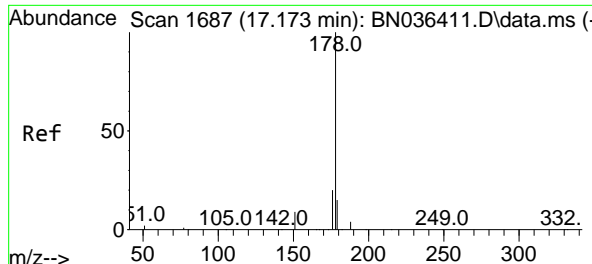
Tgt Ion	Resp	Lower	Upper
200	1560	100	100
173	29.0	23.2	34.8
215	50.0	40.0	60.0



#24
 Pentachlorophenol
 Concen: 0.313 ng
 RT: 16.801 min Scan# 1657
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Lower	Upper
266	1018	100	100
264	64.0	50.6	76.0
268	65.1	51.9	77.9

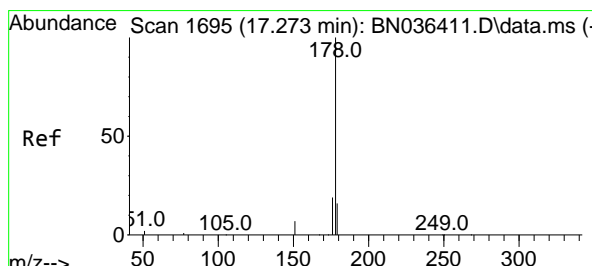
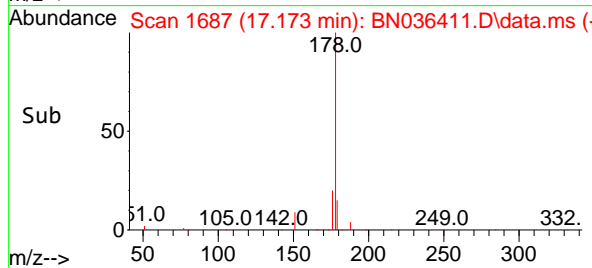
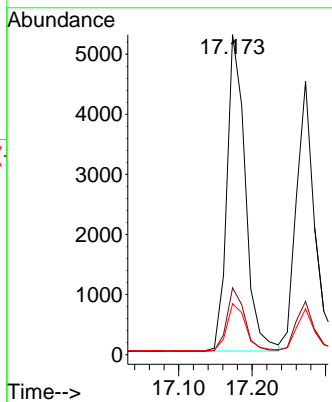
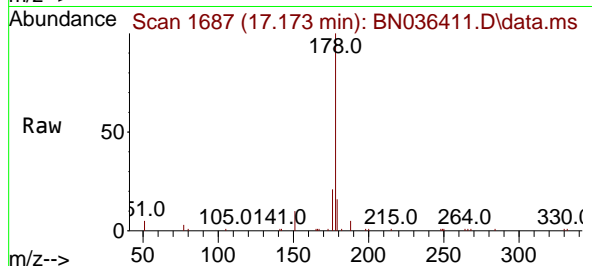




#25
 Phenanthrene
 Concen: 0.374 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

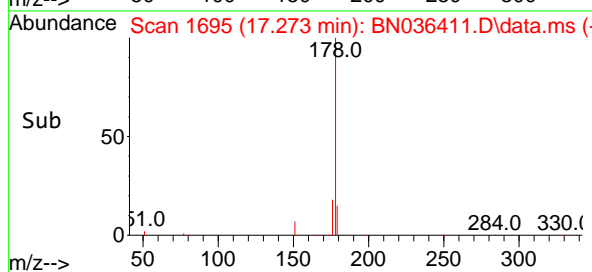
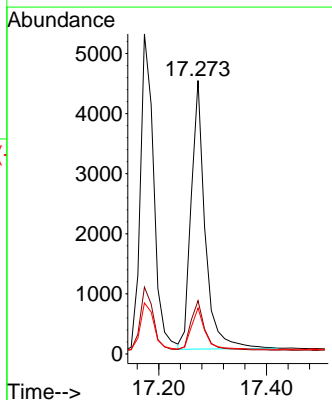
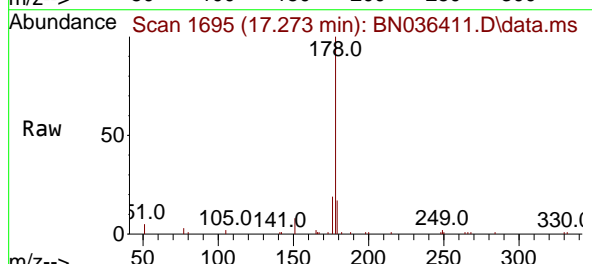
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

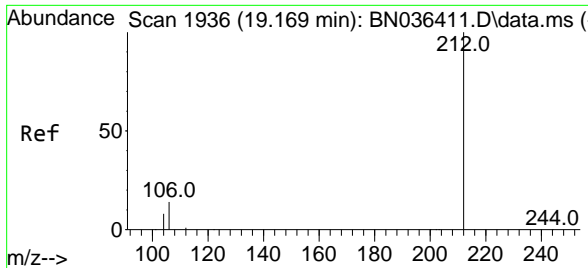
Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	9119	100		
176	19.6	15.7	15.7	23.5
179	15.5	12.4	12.4	18.6



#26
 Anthracene
 Concen: 0.363 ng
 RT: 17.273 min Scan# 1695
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	8056	100		
176	18.7	14.9	14.9	22.3
179	15.3	12.4	12.4	18.6

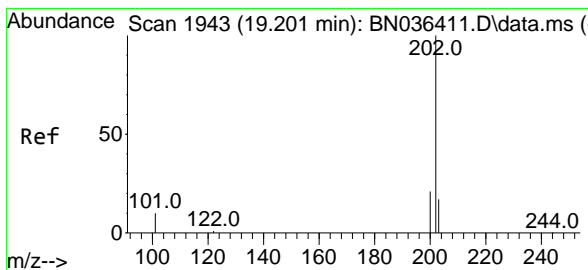
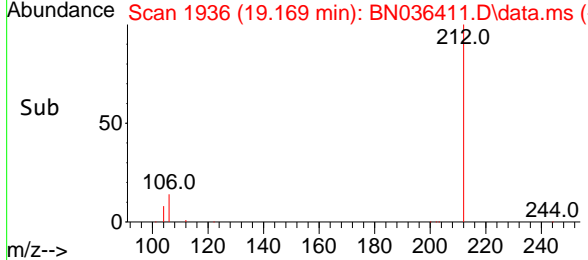
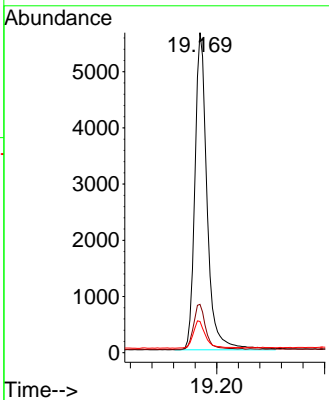
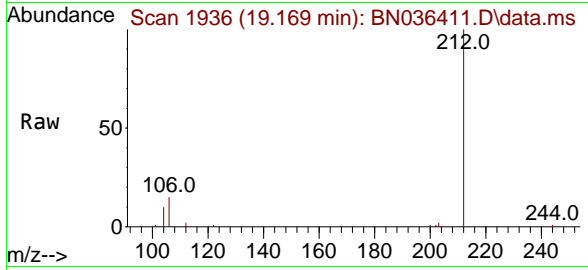




#27
Fluoranthene-d10
Concen: 0.413 ng
RT: 19.169 min Scan# 1936
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

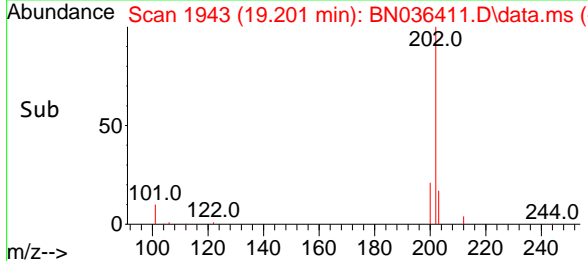
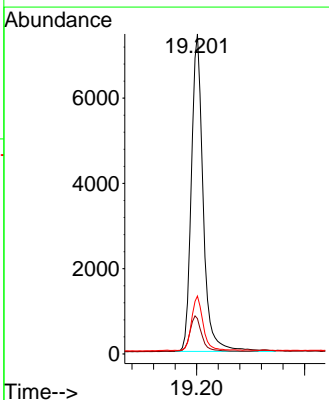
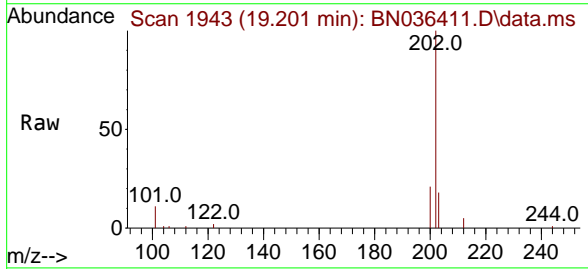
Instrument : BNA_N
Client Sample Id : SSTDICCC0.4

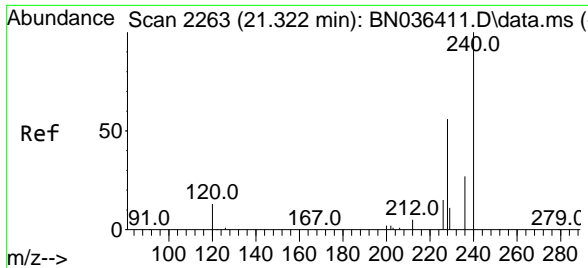
Tgt Ion	Resp	Ion Ratio	Lower	Upper
212	8851	100		
106		14.4	11.5	17.3
104		8.9	7.1	10.7



#28
Fluoranthene
Concen: 0.389 ng
RT: 19.201 min Scan# 1943
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
202	11264	100		
101		11.5	9.2	13.8
203		16.7	13.4	20.0

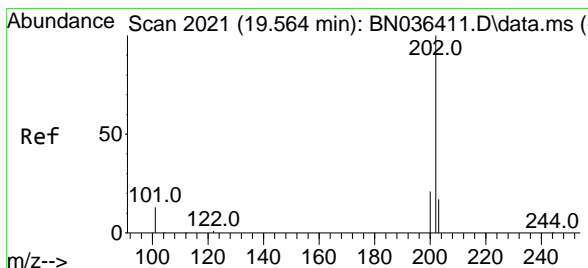
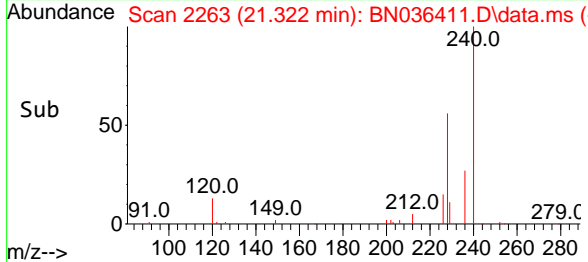
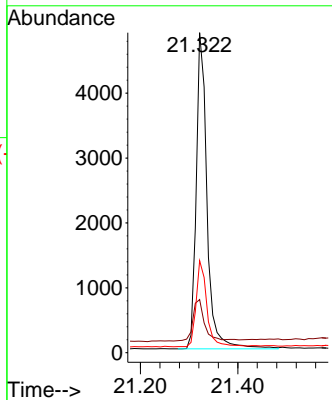
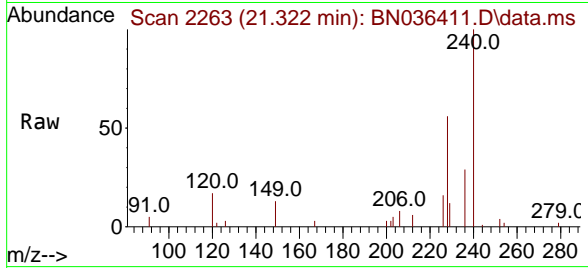




#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

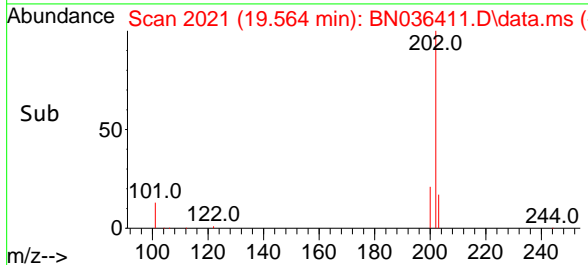
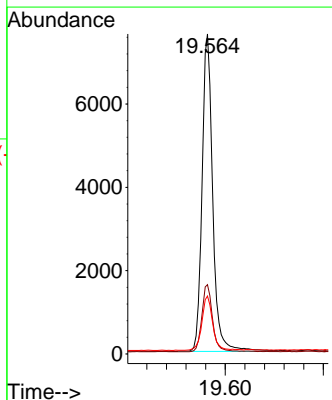
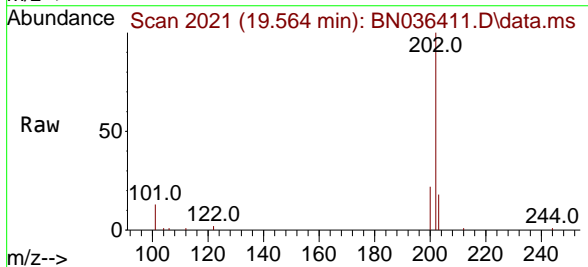
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

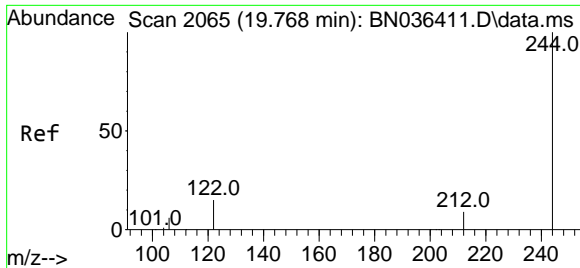
Tgt Ion	Resp	Ion Ratio	Lower	Upper
240	7484	100		
120	16.6	13.3	19.9	
236	28.8	23.0	34.6	



#30
 Pyrene
 Concen: 0.384 ng
 RT: 19.564 min Scan# 2021
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
202	11479	100		
200	21.1	16.9	25.3	
203	17.4	13.9	20.9	

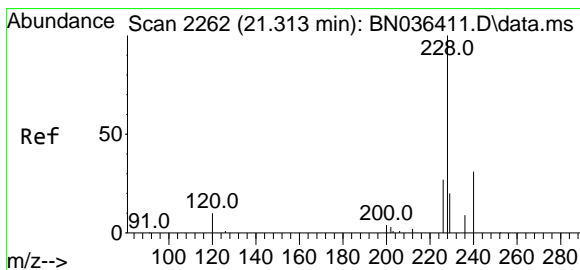
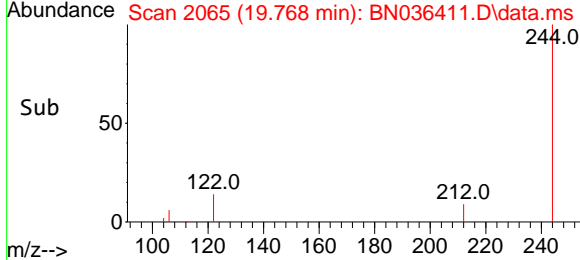
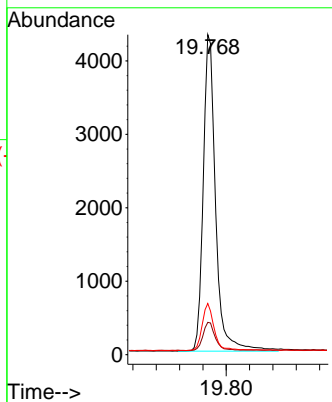
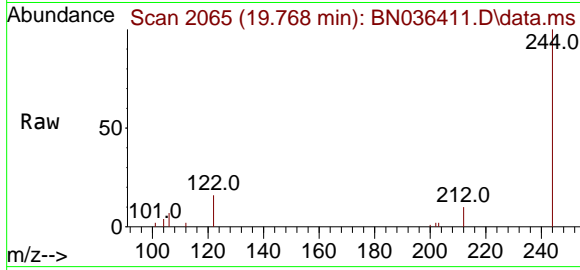




#31
 Terphenyl-d14
 Concen: 0.412 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

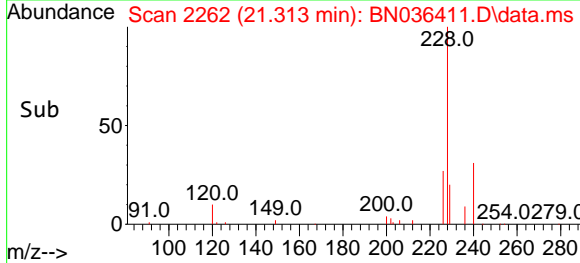
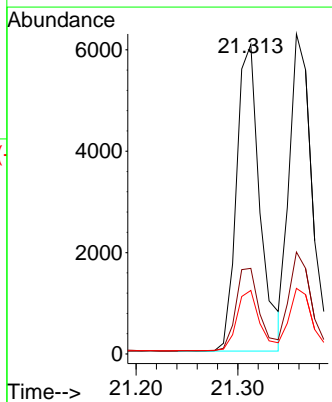
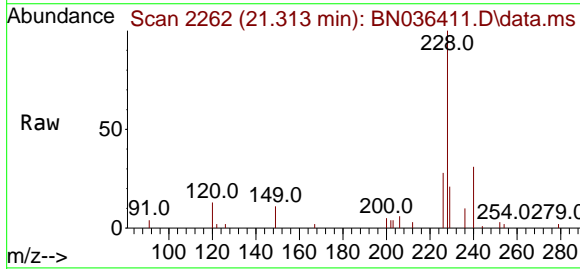
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

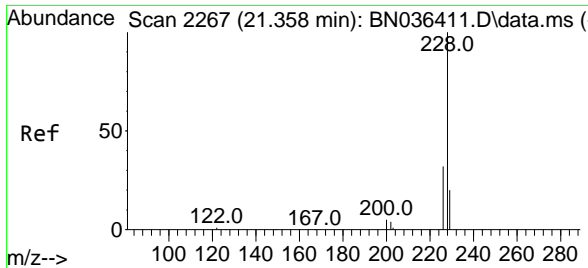
Tgt Ion	Resp	Ion Ratio	Lower	Upper
244	6378	100		
212		10.1	8.1	12.1
122		16.0	12.8	19.2



#32
 Benzo(a)anthracene
 Concen: 0.364 ng
 RT: 21.313 min Scan# 2262
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
228	9677	100		
226		27.7	22.2	33.2
229		20.6	16.5	24.7

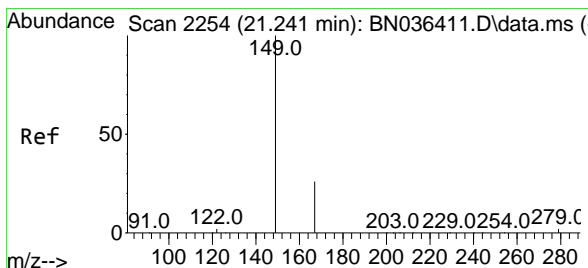
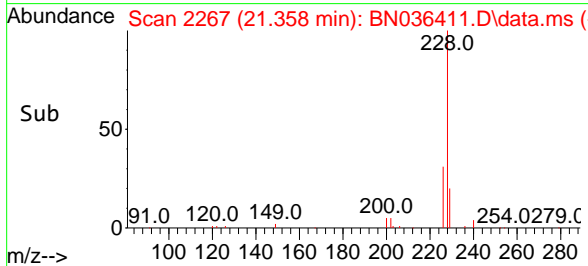
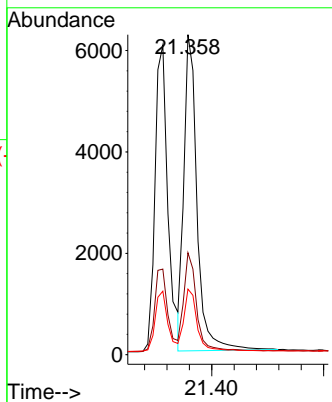
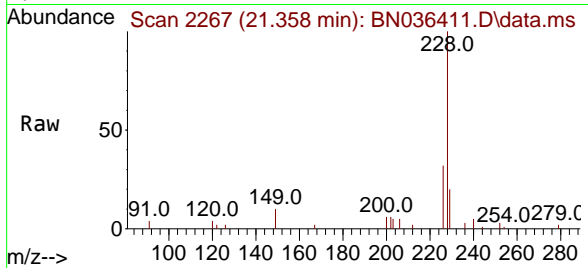




#33
 Chrysene
 Concen: 0.373 ng
 RT: 21.358 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

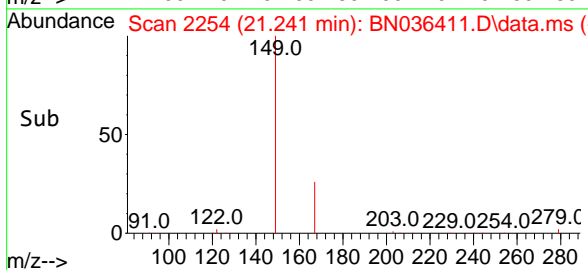
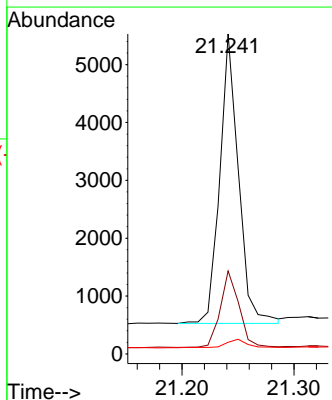
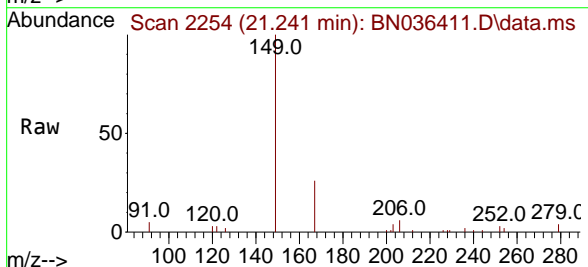
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.4

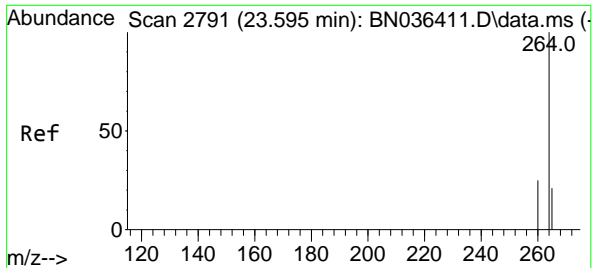
Tgt Ion	Resp	Lower	Upper
228	10178		
226	31.9	25.5	38.3
229	20.5	16.4	24.6



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.392 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Lower	Upper
149	5815		
167	26.5	21.2	31.8
279	3.4	2.7	4.1

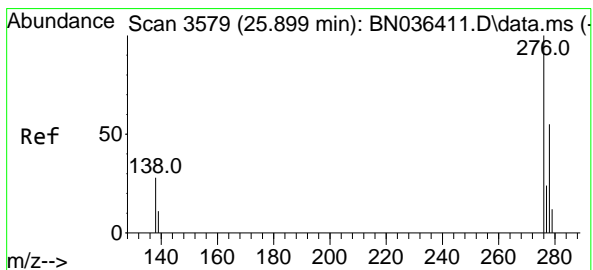
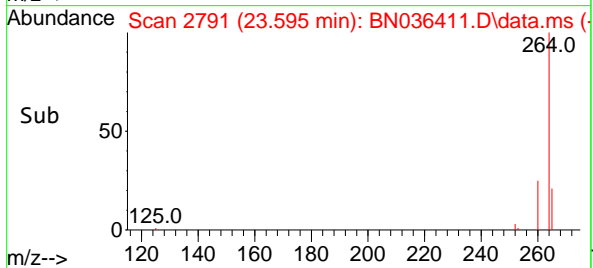
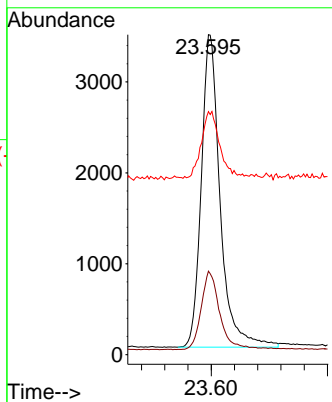
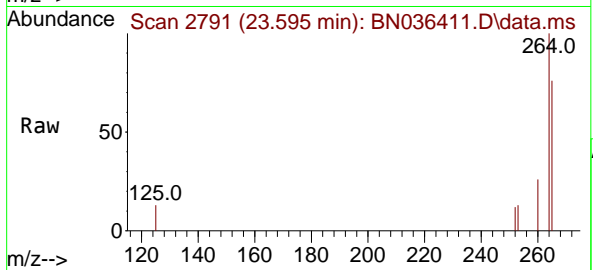




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.595 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

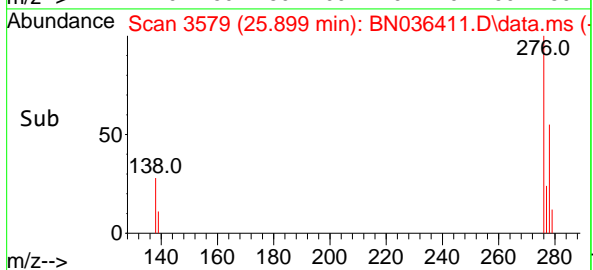
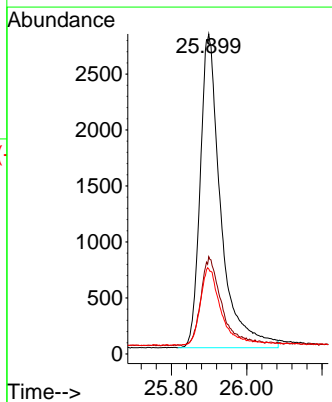
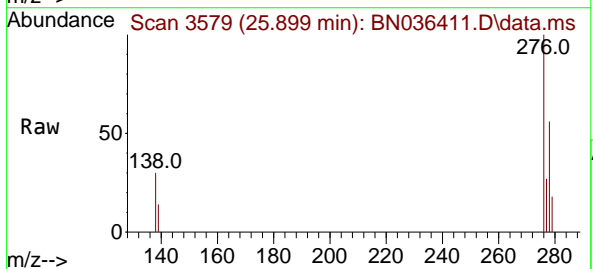
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

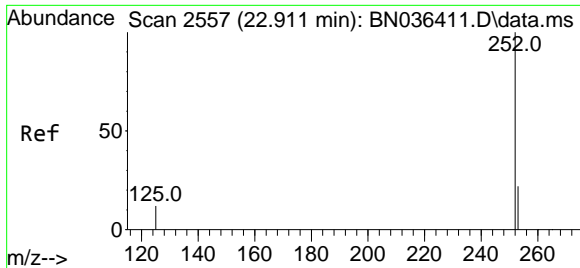
Tgt Ion	Resp	Ion Ratio	Lower	Upper
264	7735	100		
260		26.1	20.9	31.3
265		75.9	60.7	91.1



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.351 ng
 RT: 25.899 min Scan# 3579
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
276	10661	100		
138		27.8	22.2	33.2
277		24.8	19.8	29.6



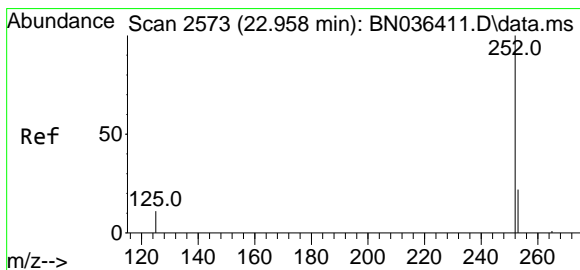
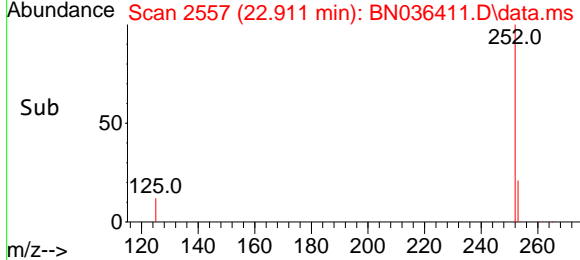
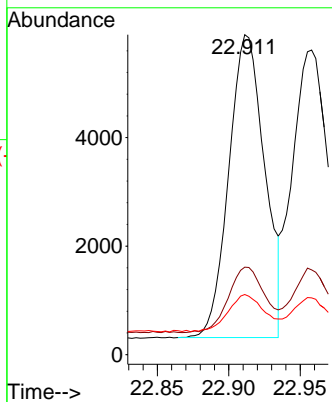
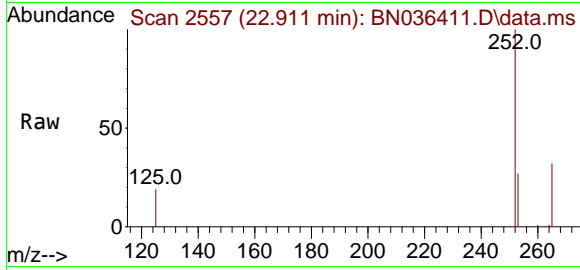


#37
 Benzo(b)fluoranthene
 Concen: 0.355 ng
 RT: 22.911 min Scan# 2557
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

Tgt Ion:252 Resp: 9743

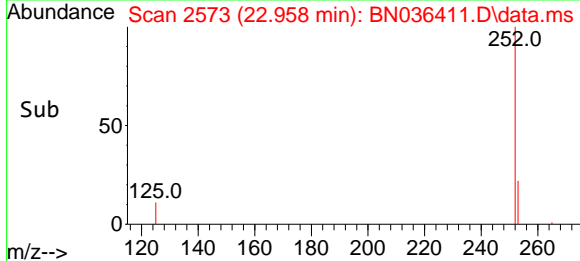
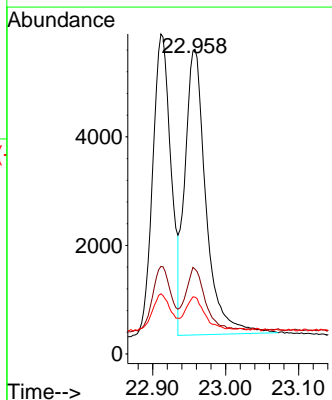
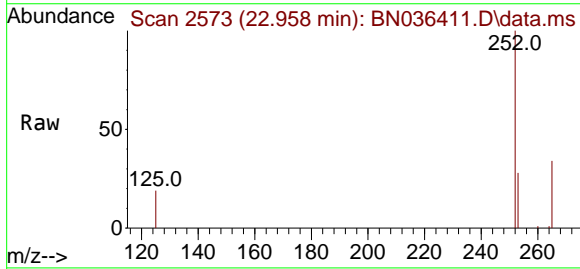
Ion	Ratio	Lower	Upper
252	100		
253	27.4	21.9	32.9
125	18.8	15.0	22.6

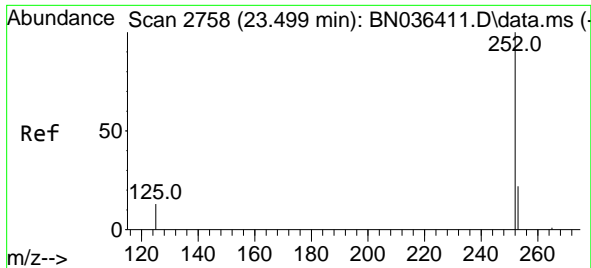


#38
 Benzo(k)fluoranthene
 Concen: 0.377 ng
 RT: 22.958 min Scan# 2573
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion:252 Resp: 10543

Ion	Ratio	Lower	Upper
252	100		
253	27.8	22.2	33.4
125	18.7	15.0	22.4



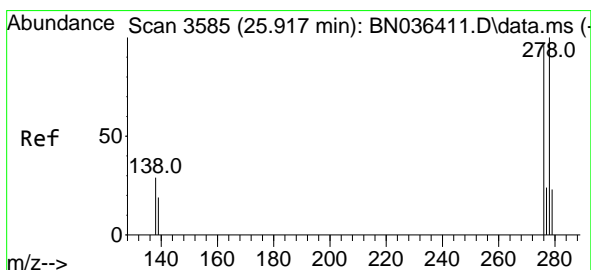
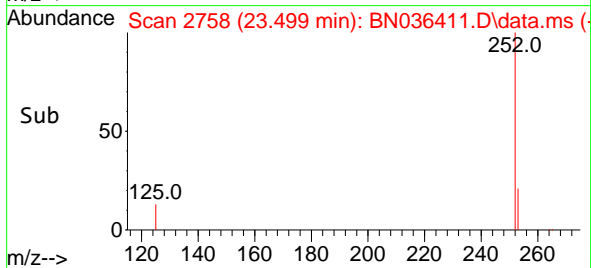
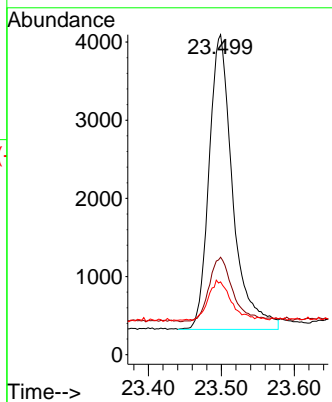
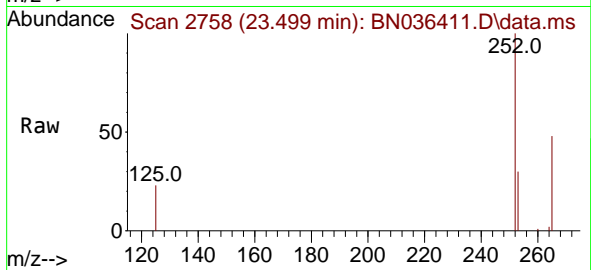


#39
 Benzo(a)pyrene
 Concen: 0.362 ng
 RT: 23.499 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

Tgt Ion:252 Resp: 8521

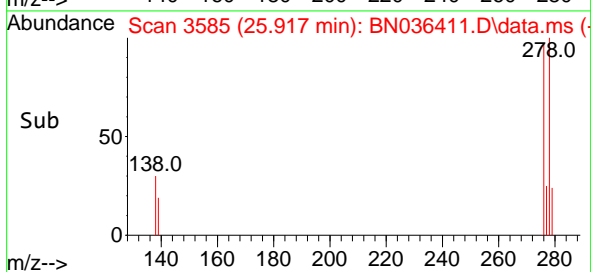
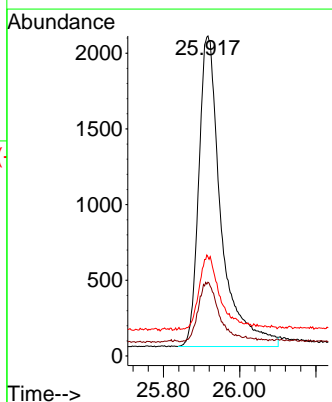
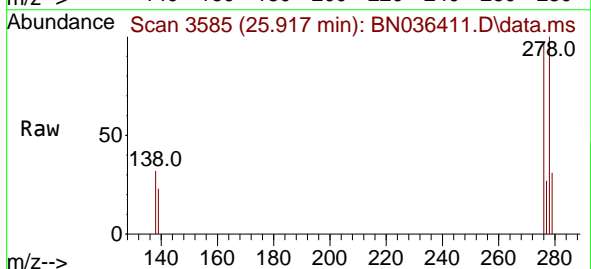
Ion	Ratio	Lower	Upper
252	100		
253	30.5	24.4	36.6
125	22.7	18.2	27.2

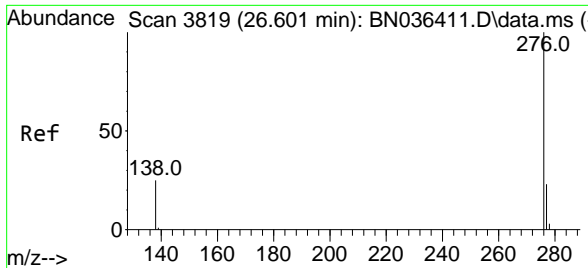


#40
 Dibenzo(a,h)anthracene
 Concen: 0.344 ng
 RT: 25.917 min Scan# 3585
 Delta R.T. 0.000 min
 Lab File: BN036411.D
 Acq: 10 Feb 2025 13:36

Tgt Ion:278 Resp: 8314

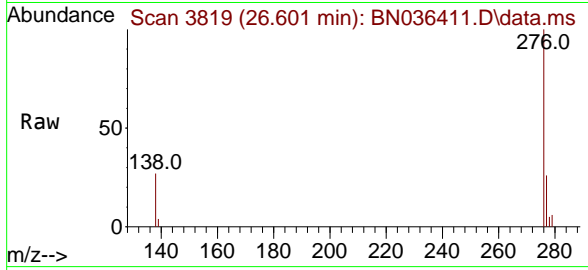
Ion	Ratio	Lower	Upper
278	100		
139	23.1	18.5	27.7
279	31.0	24.8	37.2





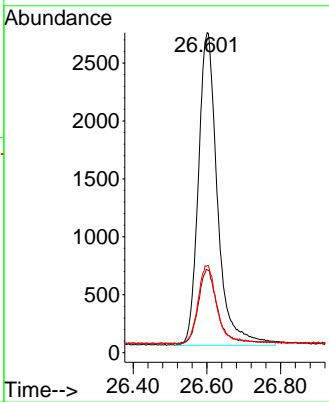
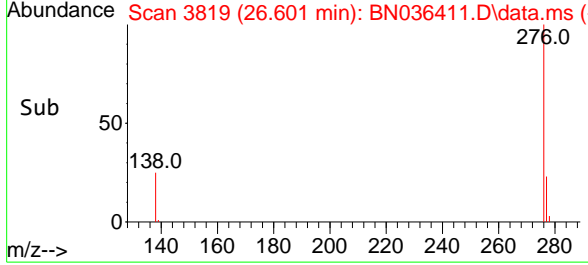
#41
Benzo(g,h,i)perylene
Concen: 0.366 ng
RT: 26.601 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Instrument : BNA_N
ClientSampleId : SSTDICCC0.4



Tgt Ion: 276 Resp: 9701

Ion	Ratio	Lower	Upper
276	100		
277	25.9	20.7	31.1
138	27.2	21.8	32.6



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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036412.D
 Acq On : 10 Feb 2025 14:12
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Feb 11 00:36:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

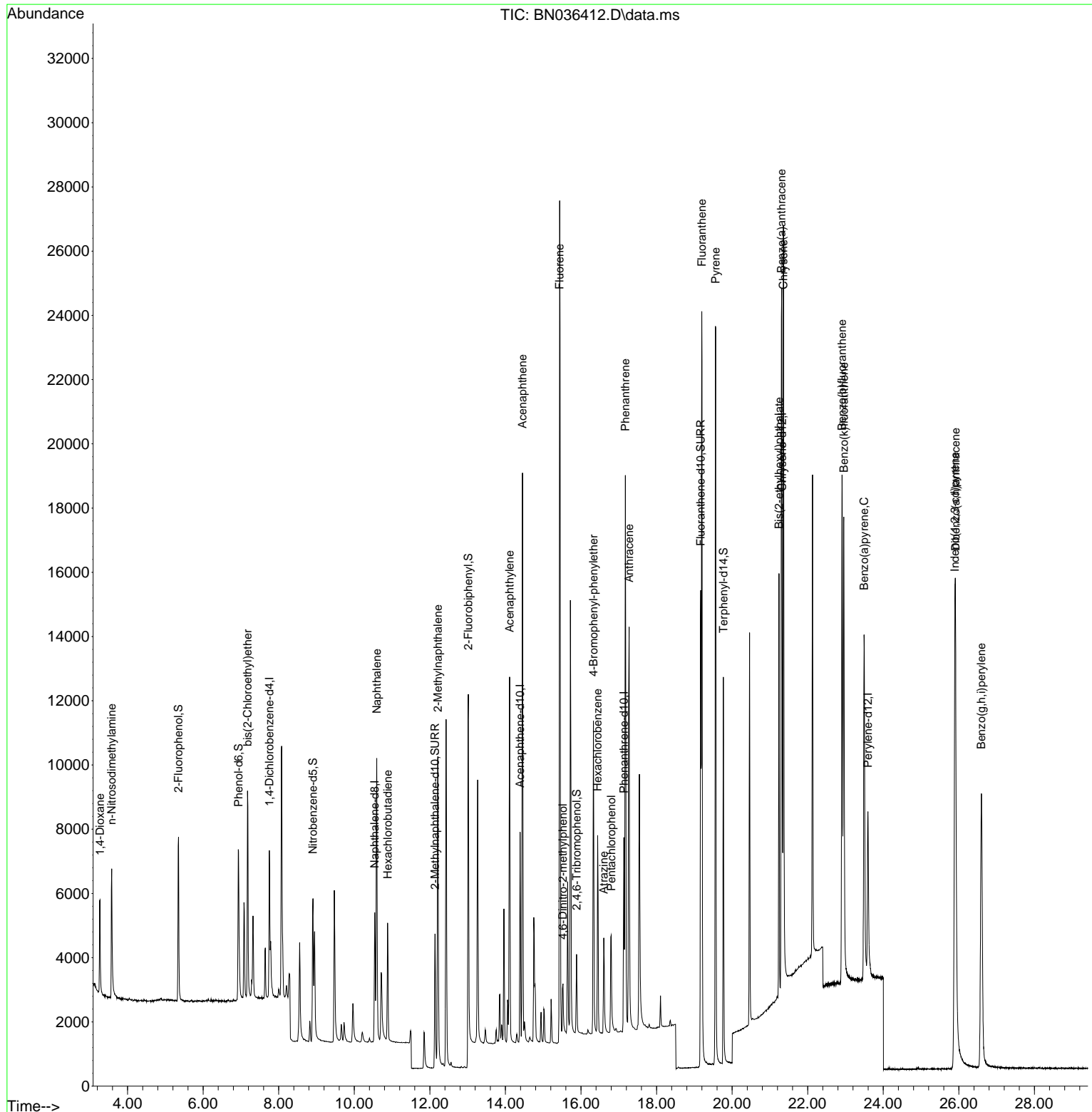
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2190	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	5510	0.400	ng	0.00	
13) Acenaphthene-d10	14.388	164	3611	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	8139	0.400	ng	0.00	
29) Chrysene-d12	21.322	240	7521	0.400	ng	0.00	
35) Perylene-d12	23.595	264	7758	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	4030	0.723	ng	0.00	
5) Phenol-d6	6.937	99	4653	0.715	ng	0.00	
8) Nitrobenzene-d5	8.907	82	4082	0.795	ng	0.00	
11) 2-Methylnaphthalene-d10	12.136	152	6480	0.860	ng	0.00	
14) 2,4,6-Tribromophenol	15.883	330	1331	0.598	ng	0.00	
15) 2-Fluorobiphenyl	13.019	172	10765	0.699	ng	0.00	
27) Fluoranthene-d10	19.169	212	17242	0.823	ng	0.00	
31) Terphenyl-d14	19.768	244	12467	0.800	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	1812	0.748	ng	99	
3) n-Nitrosodimethylamine	3.579	42	3171	0.729	ng	#	98
6) bis(2-Chloroethyl)ether	7.176	93	4947	0.915	ng		97
9) Naphthalene	10.594	128	11992	0.762	ng		98
10) Hexachlorobutadiene	10.883	225	2996	0.608	ng	#	100
12) 2-Methylnaphthalene	12.212	142	7947	0.804	ng		97
16) Acenaphthylene	14.110	152	12153	0.727	ng		99
17) Acenaphthene	14.452	154	8143	0.712	ng		98
18) Fluorene	15.435	166	11752	0.798	ng		100
20) 4,6-Dinitro-2-methylph...	15.523	198	1199	0.658	ng	#	66
21) 4-Bromophenyl-phenylether	16.329	248	3776	0.677	ng		94
22) Hexachlorobenzene	16.441	284	4670	0.642	ng		96
23) Atrazine	16.602	200	3020	0.737	ng		94
24) Pentachlorophenol	16.801	266	1989	0.625	ng		99
25) Phenanthrene	17.173	178	18094	0.758	ng		99
26) Anthracene	17.273	178	15928	0.735	ng		99
28) Fluoranthene	19.197	202	22075	0.781	ng		99
30) Pyrene	19.564	202	22410	0.746	ng		99
32) Benzo(a)anthracene	21.304	228	18881	0.707	ng		98
33) Chrysene	21.358	228	21269	0.776	ng		97
34) Bis(2-ethylhexyl)phtha...	21.241	149	11207	0.752	ng		99
36) Indeno(1,2,3-cd)pyrene	25.893	276	21570	0.708	ng		98
37) Benzo(b)fluoranthene	22.908	252	20019	0.727	ng	#	93
38) Benzo(k)fluoranthene	22.955	252	20570	0.733	ng	#	93
39) Benzo(a)pyrene	23.493	252	17289	0.731	ng	#	91
40) Dibenzo(a,h)anthracene	25.911	278	16872	0.697	ng		93
41) Benzo(g,h,i)perylene	26.598	276	19078	0.718	ng		98

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

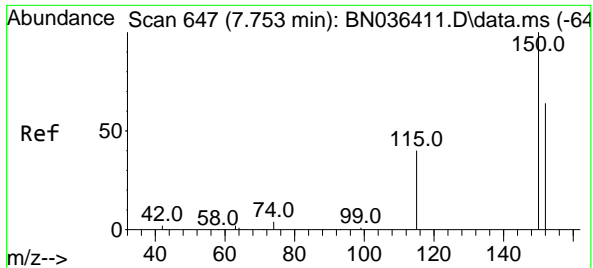
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 Acq On : 10 Feb 2025 14:12
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Feb 11 00:36:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

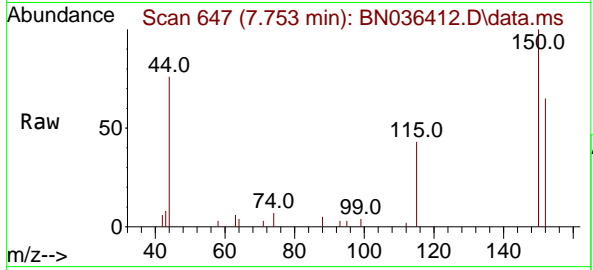


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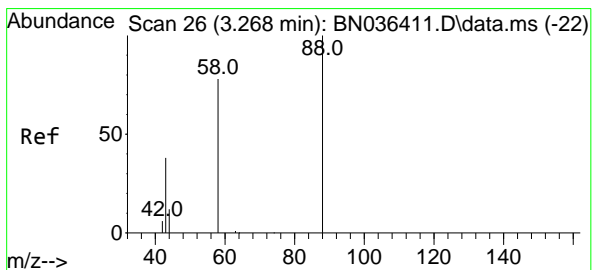
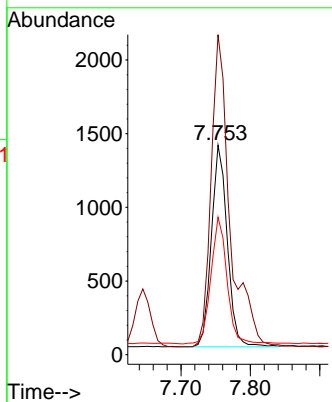
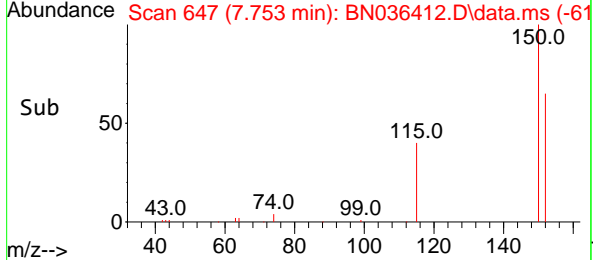


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

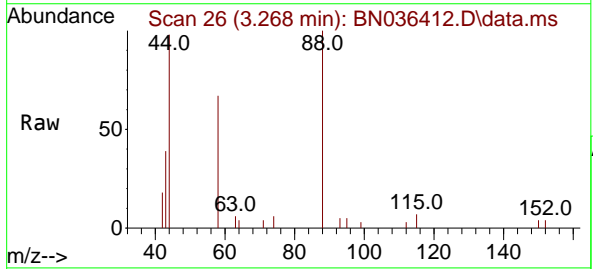
Instrument : BNA_N
 ClientSampleId : SSTDICC0.8



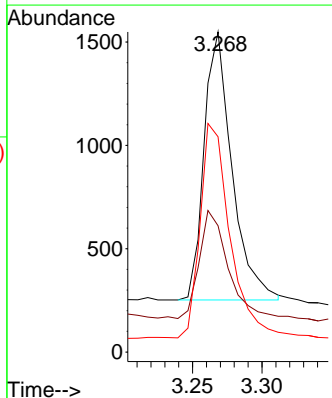
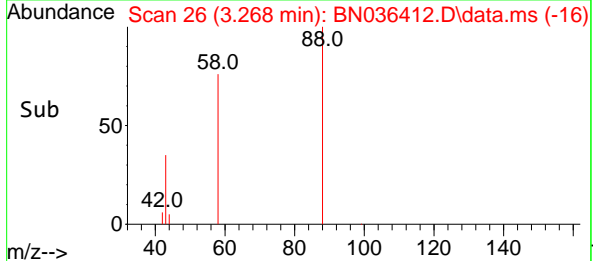
Tgt Ion:152 Resp: 2190
 Ion Ratio Lower Upper
 152 100
 150 152.7 123.7 185.5
 115 65.6 52.5 78.7

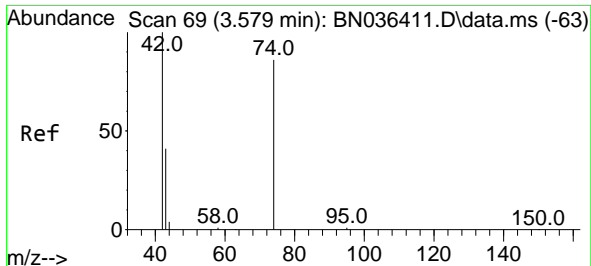


#2
 1,4-Dioxane
 Concen: 0.748 ng
 RT: 3.268 min Scan# 26
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12



Tgt Ion: 88 Resp: 1812
 Ion Ratio Lower Upper
 88 100
 43 41.0 33.7 50.5
 58 86.3 68.9 103.3

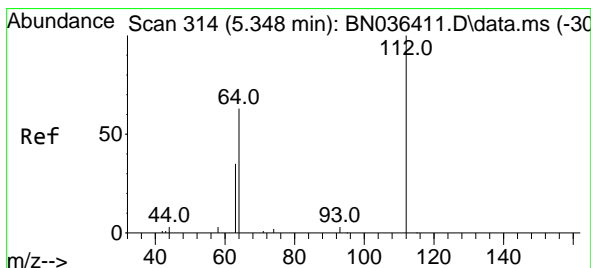
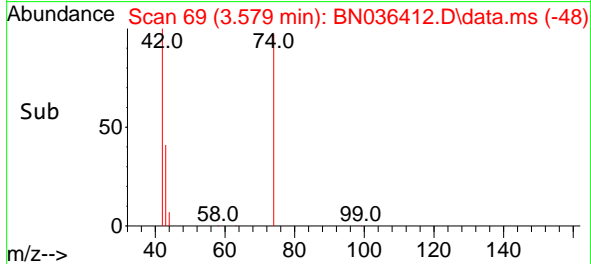
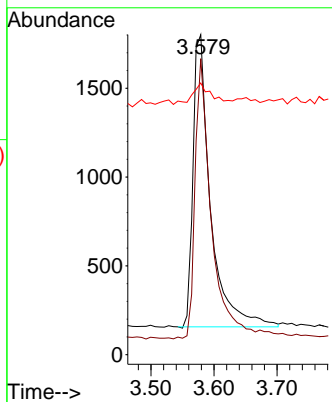
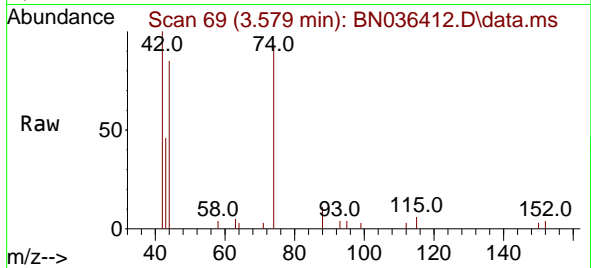




#3
 n-Nitrosodimethylamine
 Concen: 0.729 ng
 RT: 3.579 min Scan# 69
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

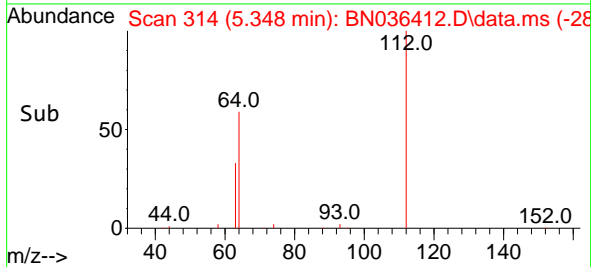
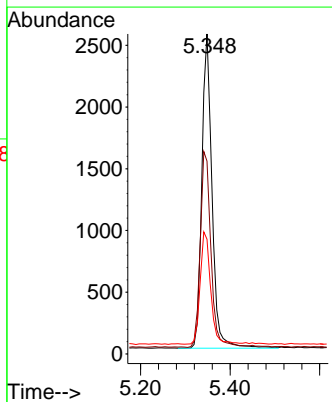
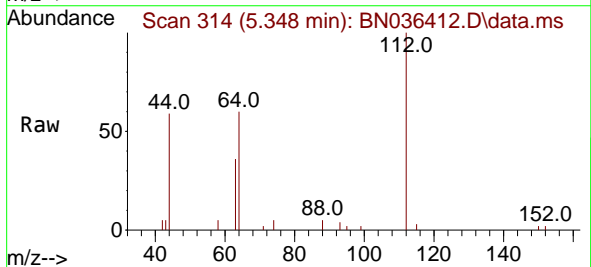
Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

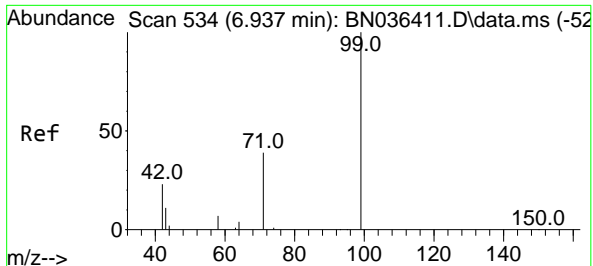
Tgt Ion	Resp	Ion Ratio	Lower	Upper
42	3171	100		
74		91.4	71.8	107.6
44		7.2	7.8	11.6



#4
 2-Fluorophenol
 Concen: 0.723 ng
 RT: 5.348 min Scan# 314
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion	Resp	Ion Ratio	Lower	Upper
112	4030	100		
64		65.3	53.4	80.0
63		36.6	30.3	45.5



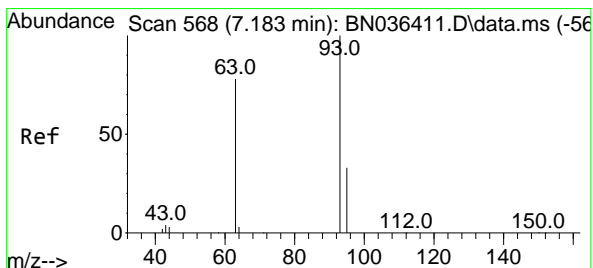
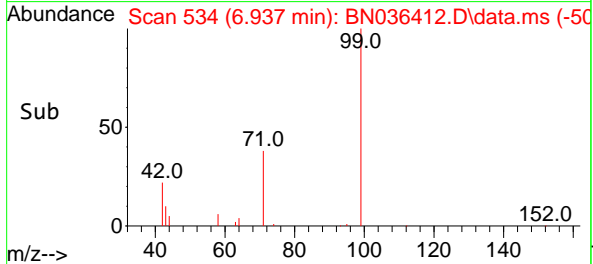
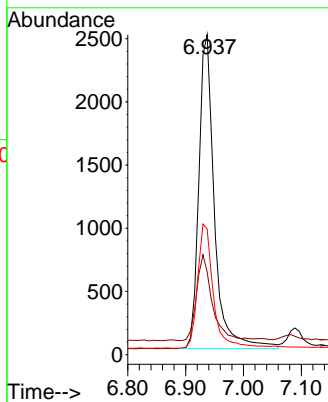
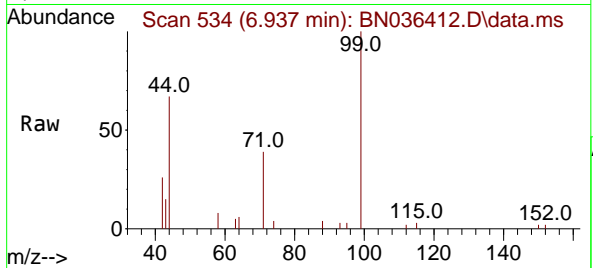


#5
 Phenol-d6
 Concen: 0.715 ng
 RT: 6.937 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Tgt Ion: 99 Resp: 4653

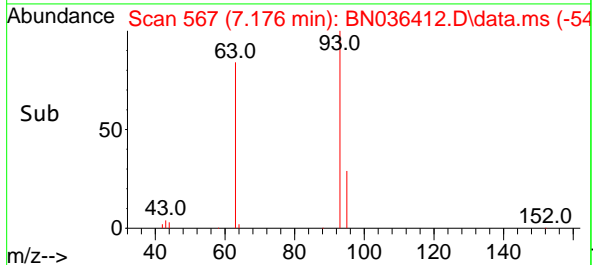
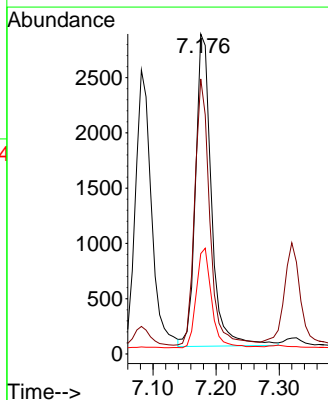
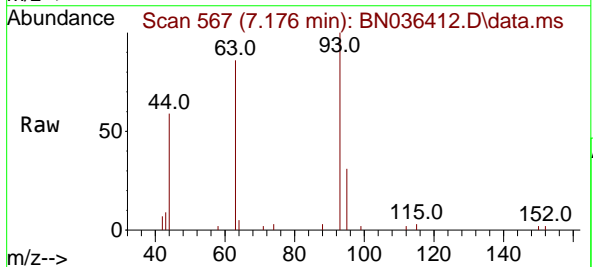
Ion	Ratio	Lower	Upper
99	100		
42	27.6	21.7	32.5
71	40.0	32.6	49.0

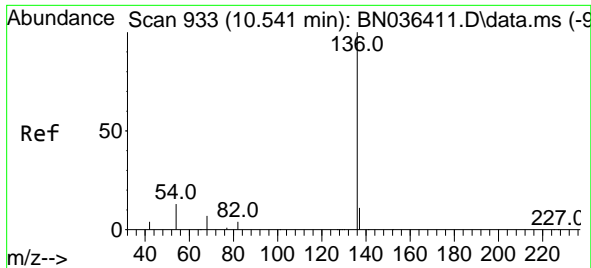


#6
 bis(2-Chloroethyl)ether
 Concen: 0.915 ng
 RT: 7.176 min Scan# 567
 Delta R.T. -0.007 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion: 93 Resp: 4947

Ion	Ratio	Lower	Upper
93	100		
63	80.8	66.3	99.5
95	31.0	26.2	39.4



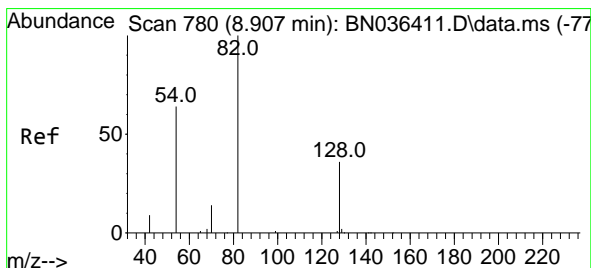
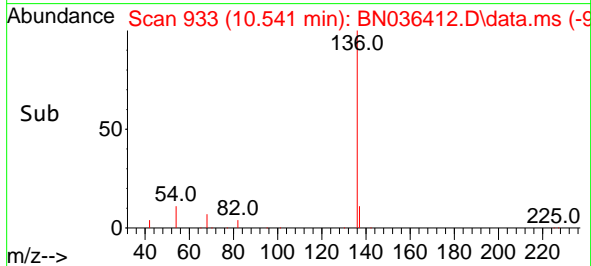
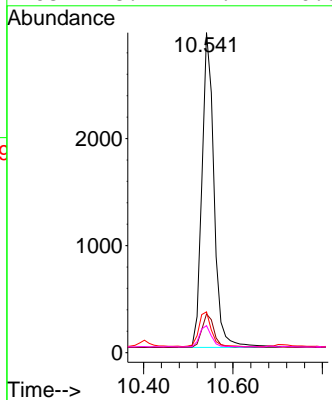
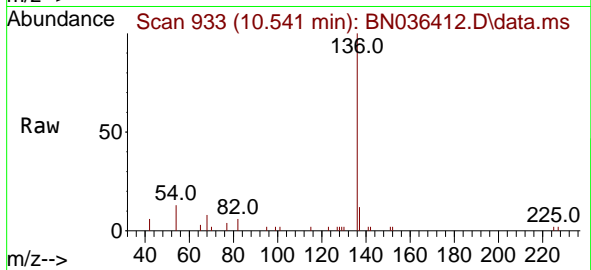


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5510

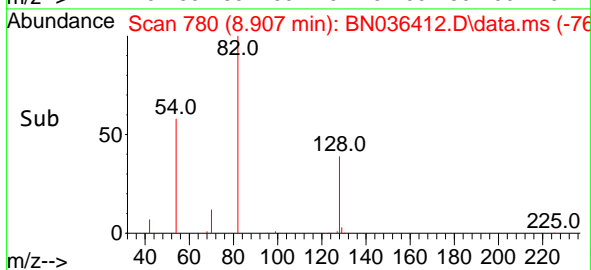
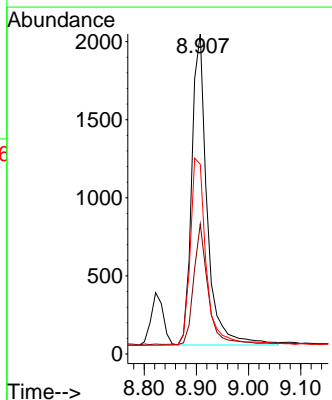
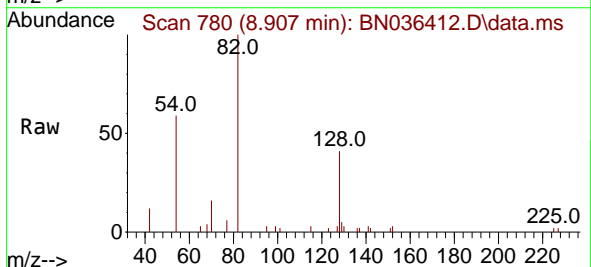
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.1	15.1
54	12.7	11.8	17.6
68	8.4	7.2	10.8

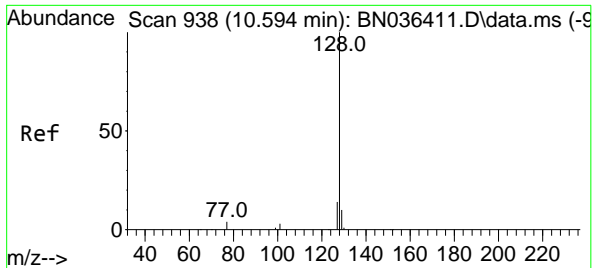


#8
Nitrobenzene-d5
Concen: 0.795 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 82 Resp: 4082

Ion	Ratio	Lower	Upper
82	100		
128	40.7	31.9	47.9
54	59.3	53.1	79.7



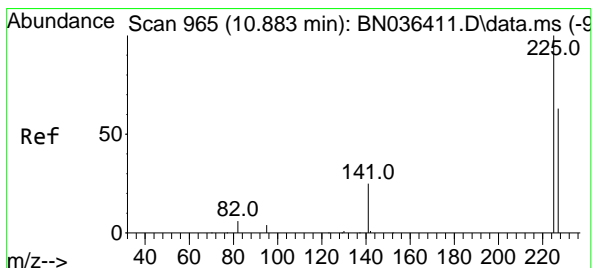
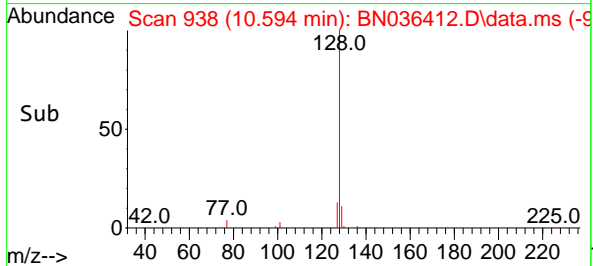
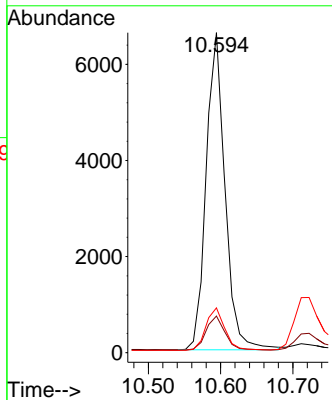
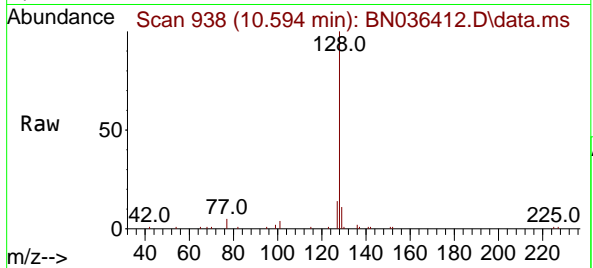


#9
Naphthalene
 Concen: 0.762 ng
 RT: 10.594 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument :
 BNA_N
ClientSampleId :
 SSTDICC0.8

Tgt Ion:128 Resp: 11992

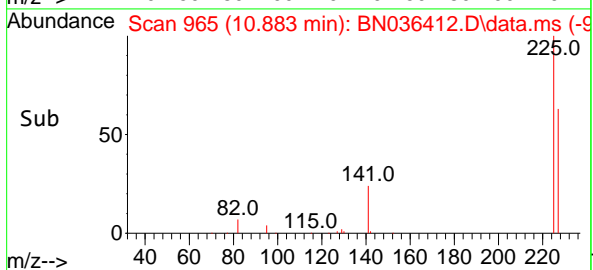
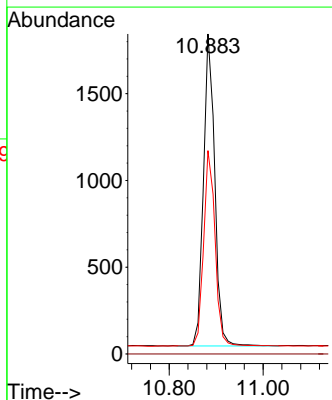
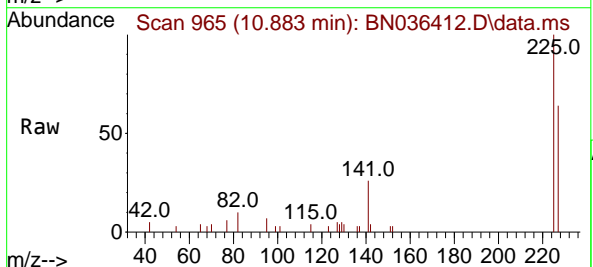
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.6	14.4
127	14.0	12.0	18.0

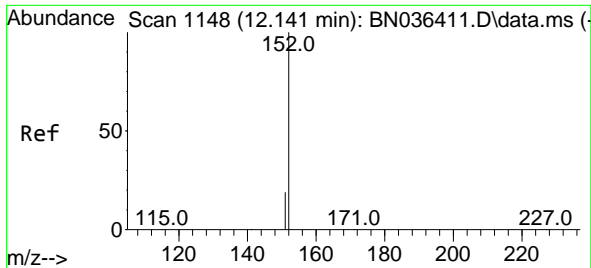


#10
Hexachlorobutadiene
 Concen: 0.608 ng
 RT: 10.883 min Scan# 965
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:225 Resp: 2996

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	50.9	76.3

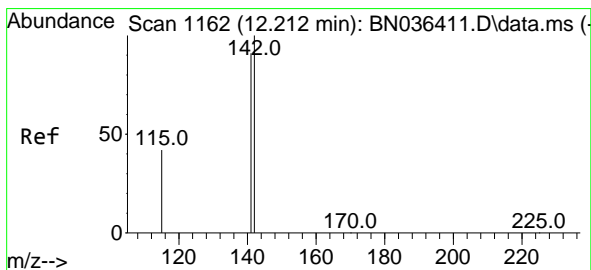
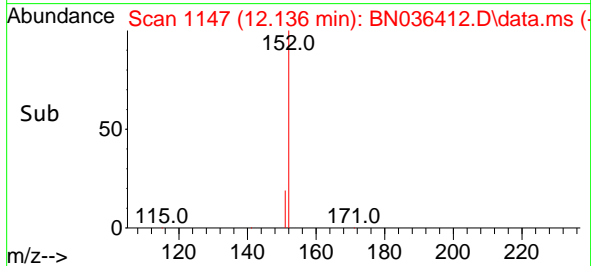
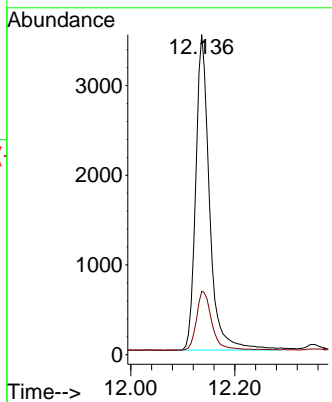
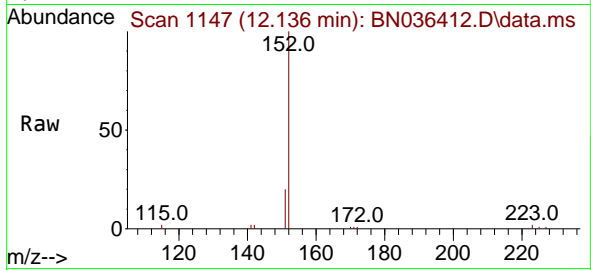




#11
 2-Methylnaphthalene-d10
 Concen: 0.860 ng
 RT: 12.136 min Scan# 1147
 Delta R.T. -0.005 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

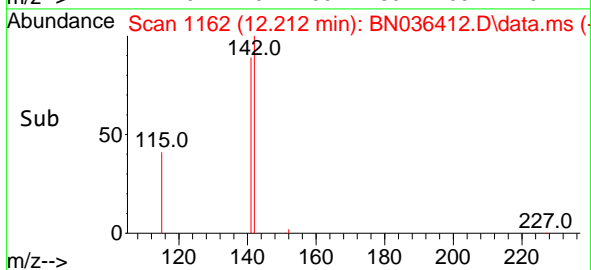
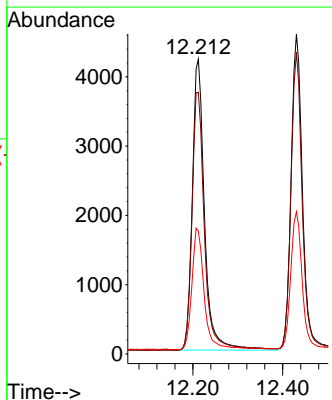
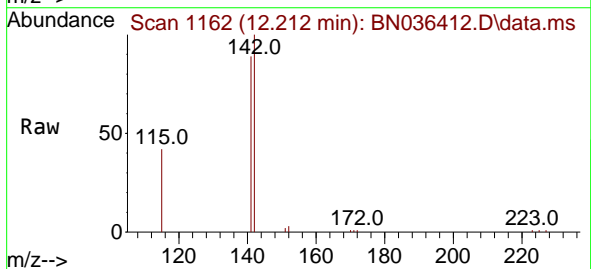
Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

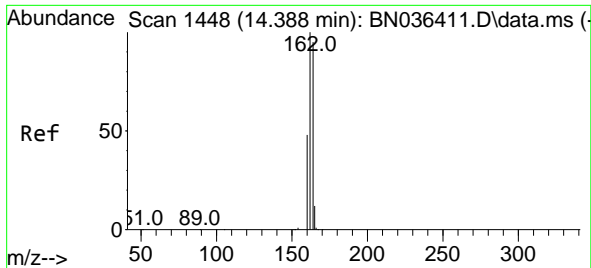
Tgt Ion:152 Resp: 6480
 Ion Ratio Lower Upper
 152 100
 151 20.7 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.804 ng
 RT: 12.212 min Scan# 1162
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:142 Resp: 7947
 Ion Ratio Lower Upper
 142 100
 141 88.7 72.8 109.2
 115 41.6 35.5 53.3



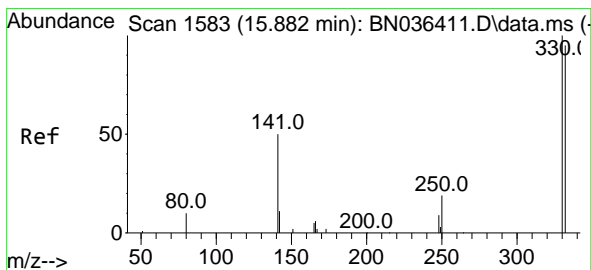
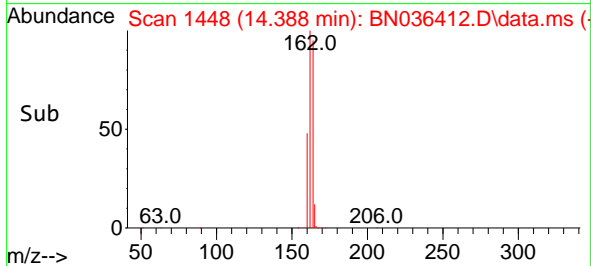
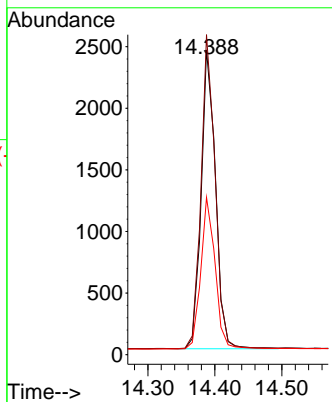
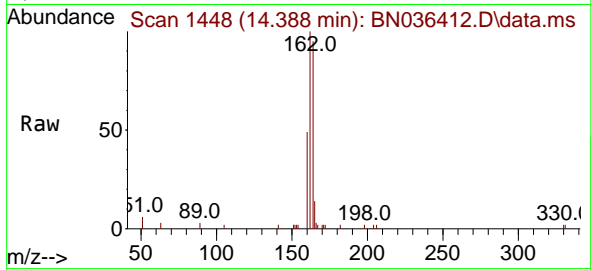


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.388 min Scan# 1448
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Tgt Ion:164 Resp: 3611

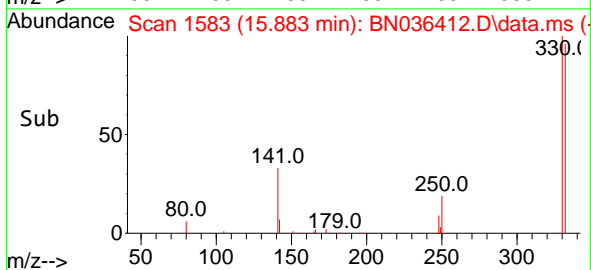
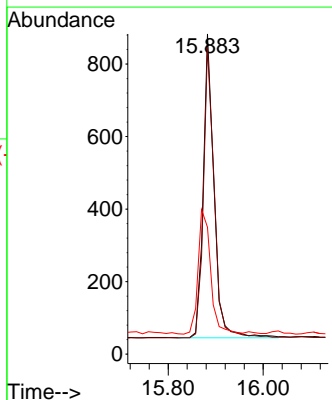
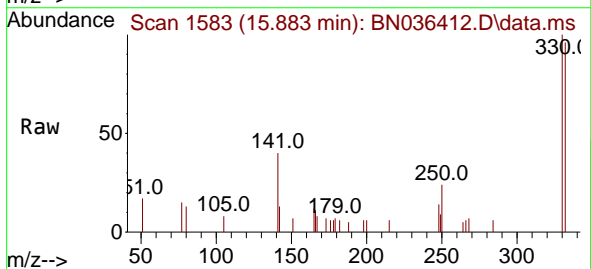
Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.1	126.1
160	51.6	41.4	62.0

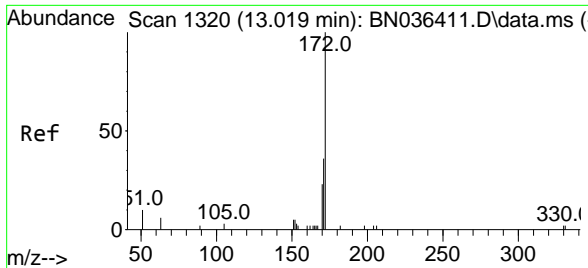


#14
 2,4,6-Tribromophenol
 Concen: 0.598 ng
 RT: 15.883 min Scan# 1583
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:330 Resp: 1331

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.6	114.8
141	47.5	37.8	56.8



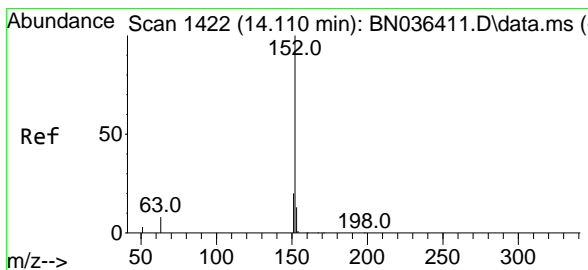
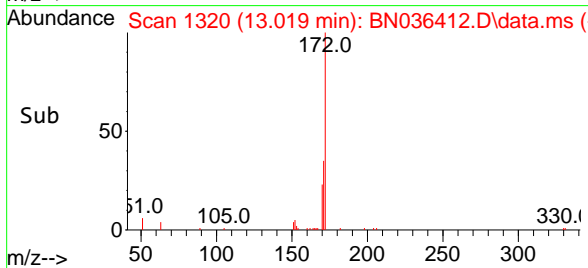
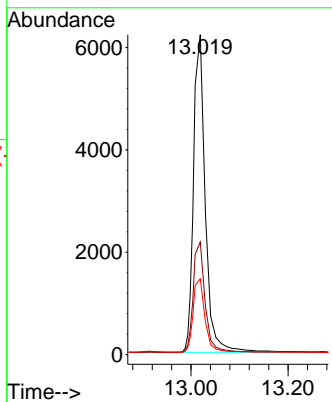
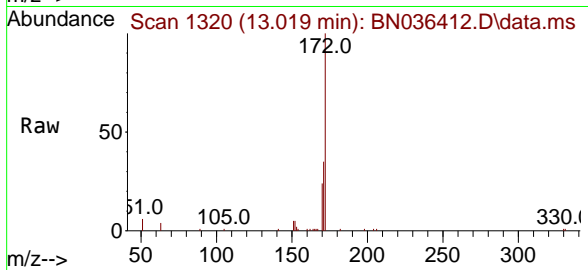


#15
 2-Fluorobiphenyl
 Concen: 0.699 ng
 RT: 13.019 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

Tgt Ion:172 Resp: 10765

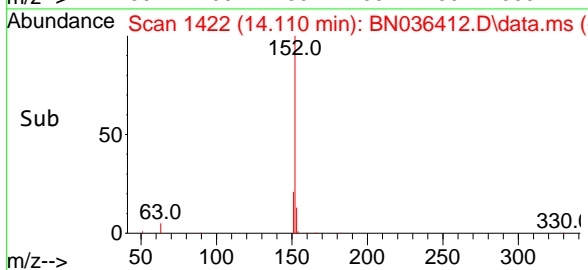
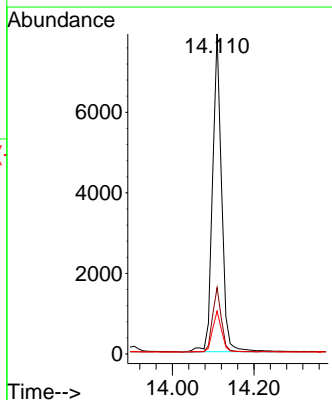
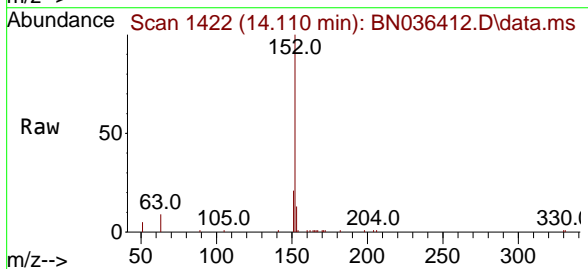
Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.6	44.4
170	23.7	19.8	29.6

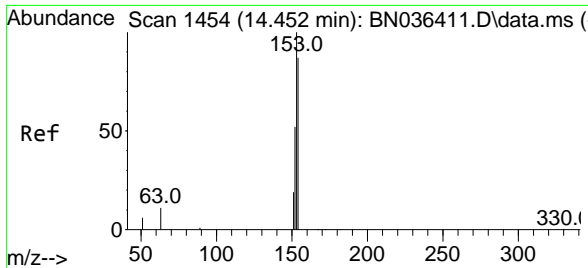


#16
 Acenaphthylene
 Concen: 0.727 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:152 Resp: 12153

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.0	10.2	15.2

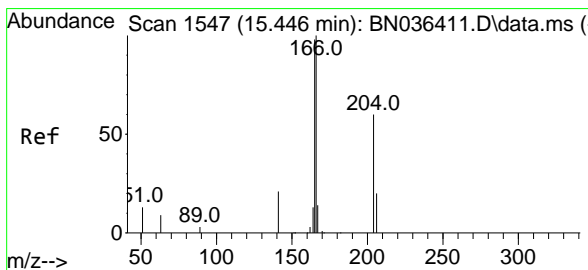
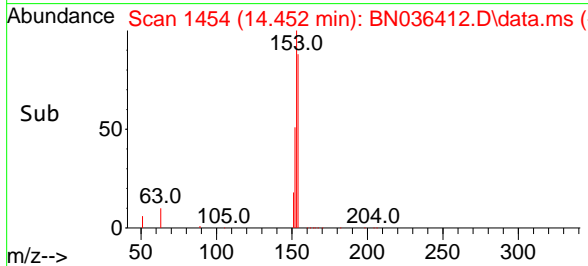
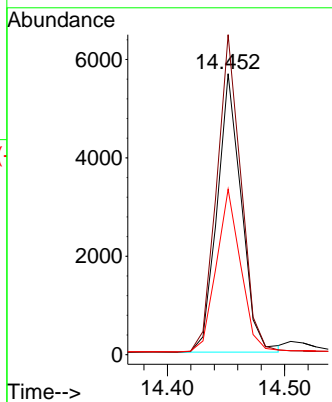
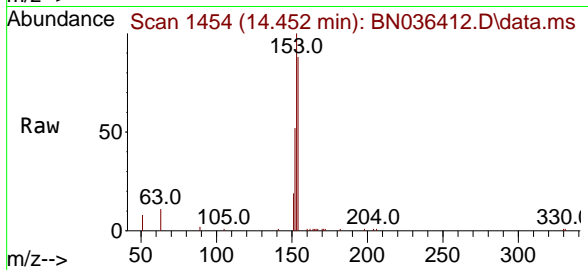




#17
 Acenaphthene
 Concen: 0.712 ng
 RT: 14.452 min Scan# 14
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

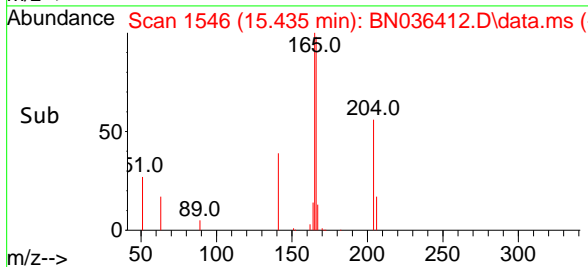
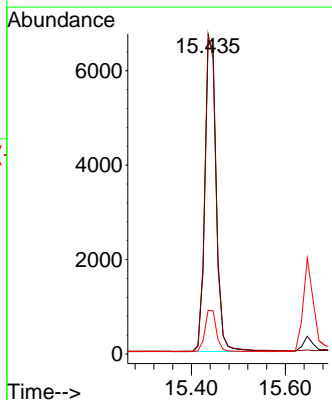
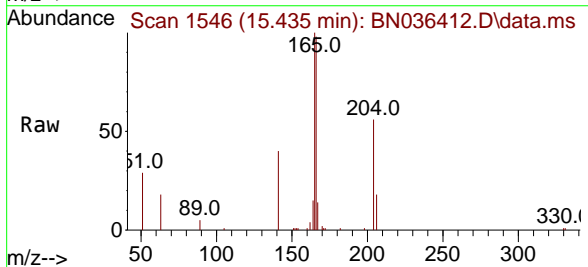
Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

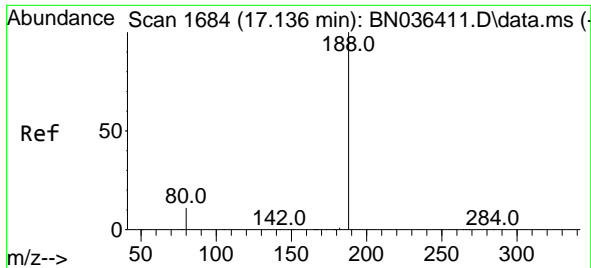
Tgt Ion	Resp	Lower	Upper
154	8143		
153	115.5	93.3	139.9
152	59.0	48.8	73.2



#18
 Fluorene
 Concen: 0.798 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion	Resp	Lower	Upper
166	11752		
165	99.6	79.5	119.3
167	13.3	10.4	15.6



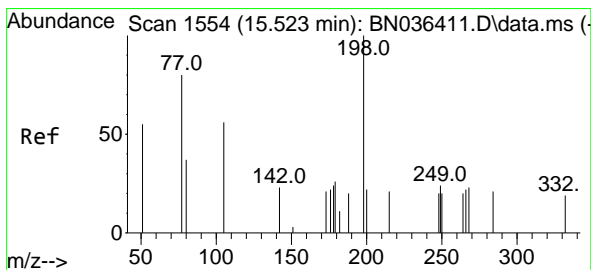
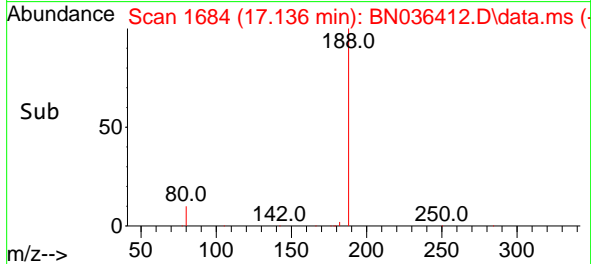
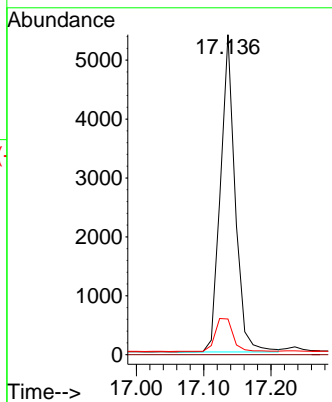
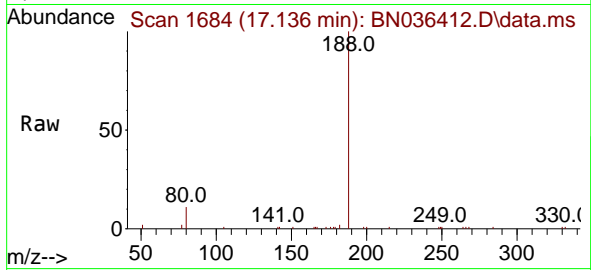


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 1684
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument : BNA_N
 Client Sample Id : BN036412.D
 SSTDICC0.8

Tgt Ion:188 Resp: 8139

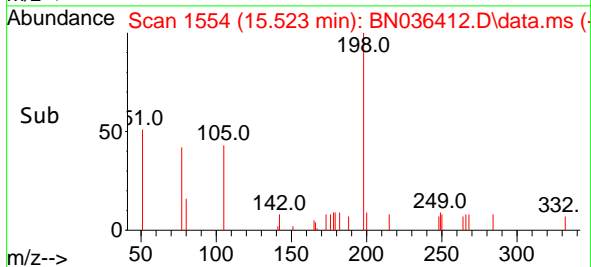
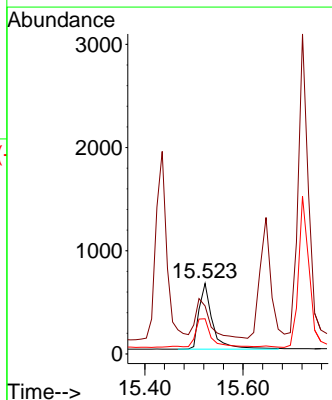
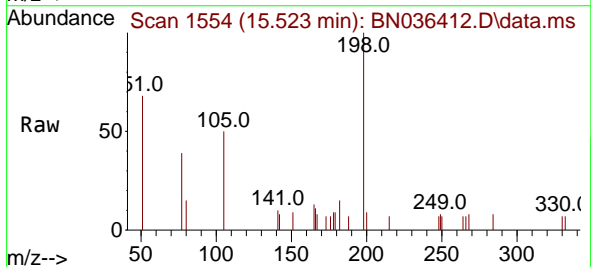
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	9.8	14.6

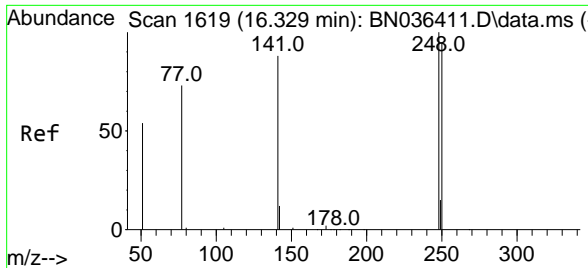


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.658 ng
 RT: 15.523 min Scan# 1554
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:198 Resp: 1199

Ion	Ratio	Lower	Upper
198	100		
51	68.0	86.6	129.8#
105	49.9	57.5	86.3#



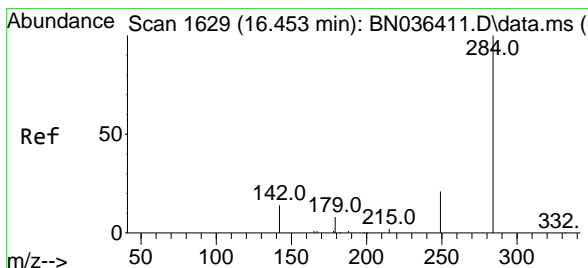
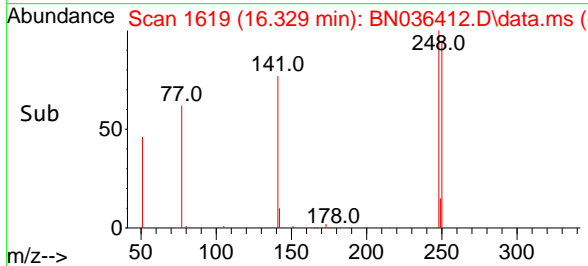
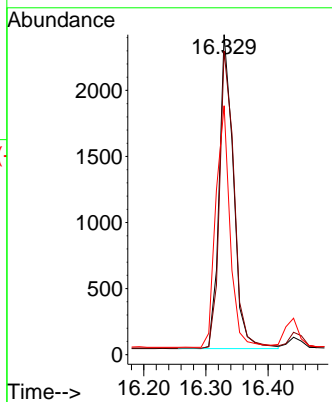
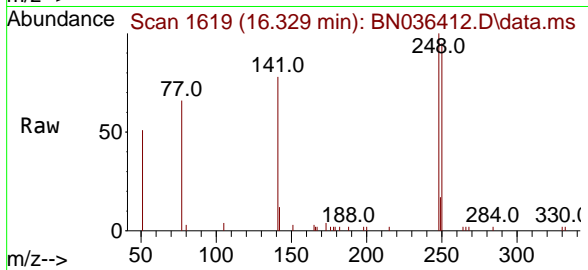


#21
 4-Bromophenyl-phenylether
 Concen: 0.677 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Tgt Ion:248 Resp: 3776

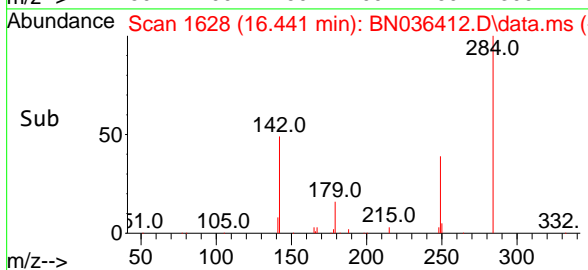
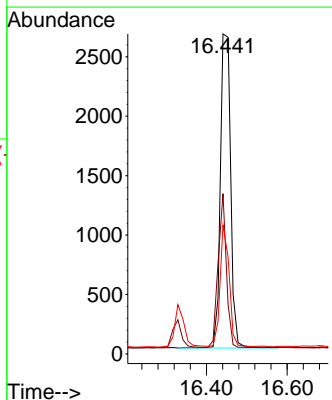
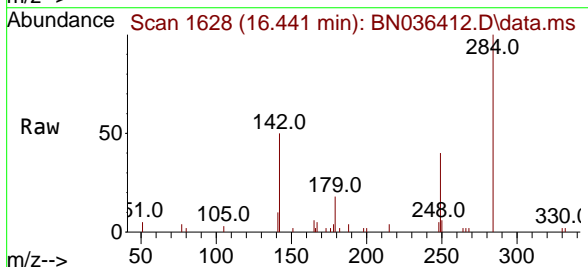
Ion	Ratio	Lower	Upper
248	100		
250	94.9	76.1	114.1
141	77.8	71.7	107.5

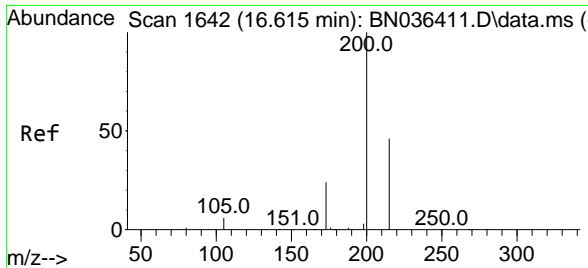


#22
 Hexachlorobenzene
 Concen: 0.642 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.012 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:284 Resp: 4670

Ion	Ratio	Lower	Upper
284	100		
142	39.5	33.4	50.0
249	33.7	28.6	43.0



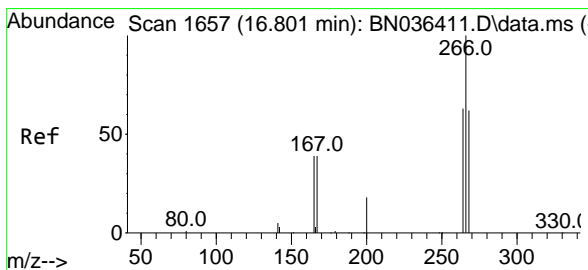
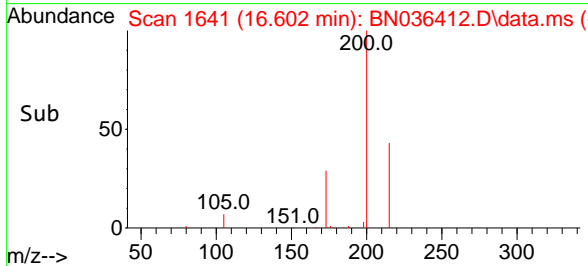
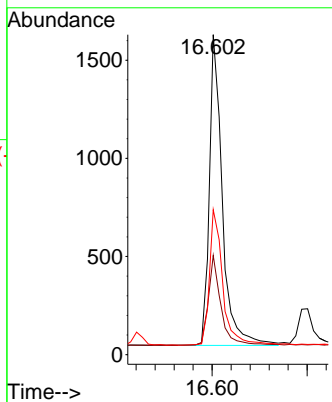
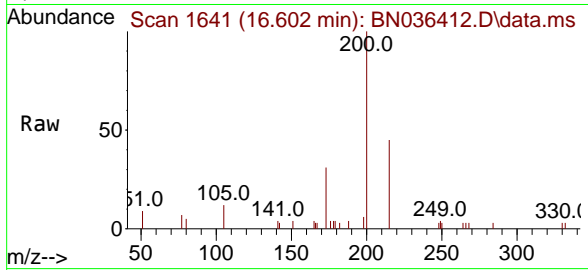


#23
 Atrazine
 Concen: 0.737 ng
 RT: 16.602 min Scan# 1641
 Delta R.T. -0.012 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Tgt Ion:200 Resp: 3020

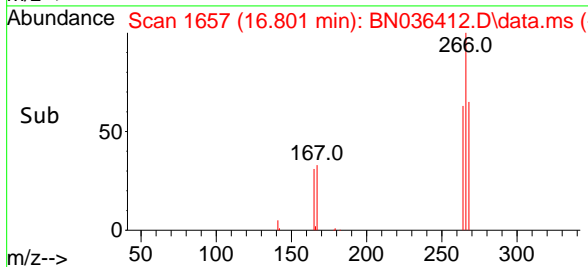
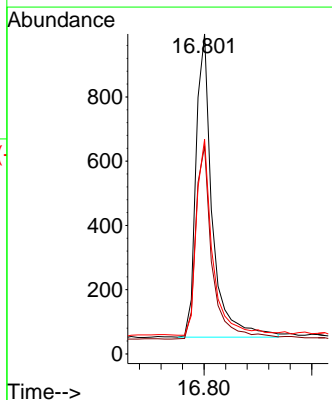
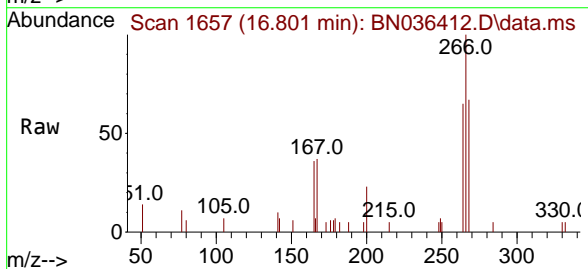
Ion	Ratio	Lower	Upper
200	100		
173	31.0	23.2	34.8
215	45.3	40.0	60.0

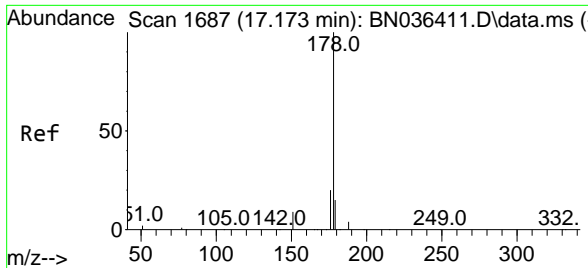


#24
 Pentachlorophenol
 Concen: 0.625 ng
 RT: 16.801 min Scan# 1657
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:266 Resp: 1989

Ion	Ratio	Lower	Upper
266	100		
264	64.5	50.6	76.0
268	64.4	51.9	77.9

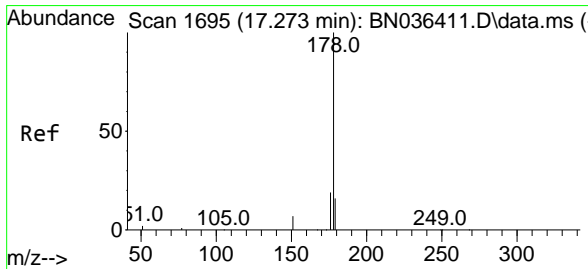
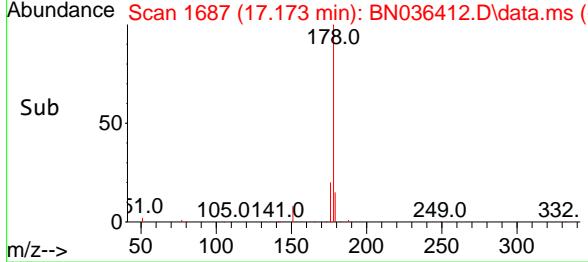
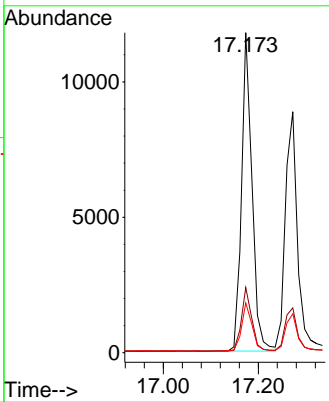
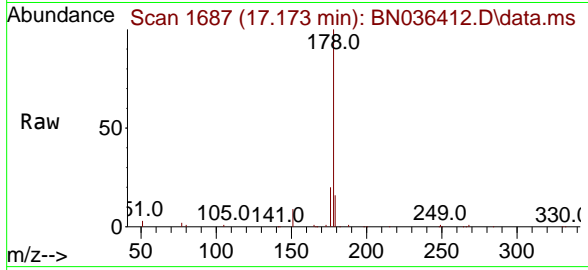




#25
 Phenanthrene
 Concen: 0.758 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

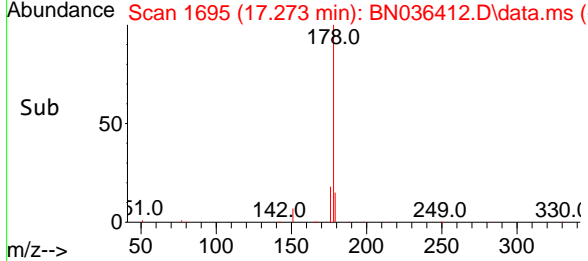
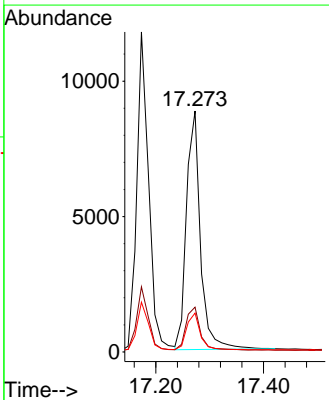
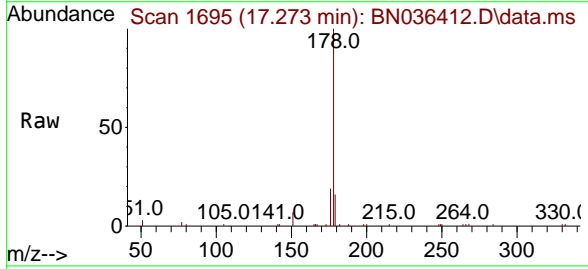
Instrument : BNA_N
 Client Sample Id : SSTDICC0.8

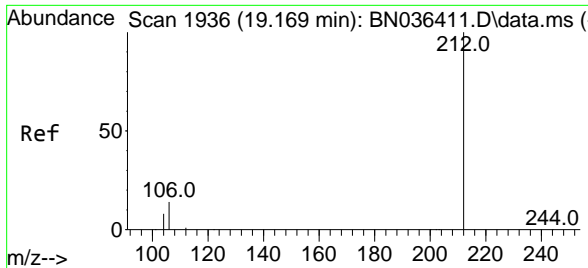
Tgt Ion	Resp	Lower	Upper
178	18094		
176	19.8	15.7	23.5
179	15.1	12.4	18.6



#26
 Anthracene
 Concen: 0.735 ng
 RT: 17.273 min Scan# 1695
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion	Resp	Lower	Upper
178	15928		
176	18.3	14.9	22.3
179	15.4	12.4	18.6



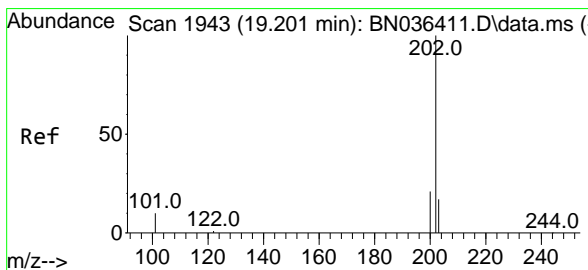
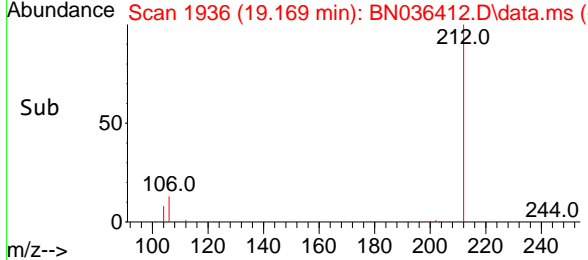
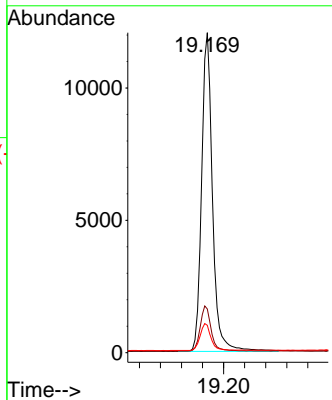
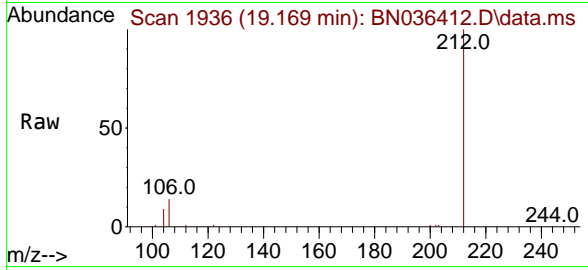


#27
 Fluoranthene-d10
 Concen: 0.823 ng
 RT: 19.169 min Scan# 1936
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

Tgt Ion:212 Resp: 17242

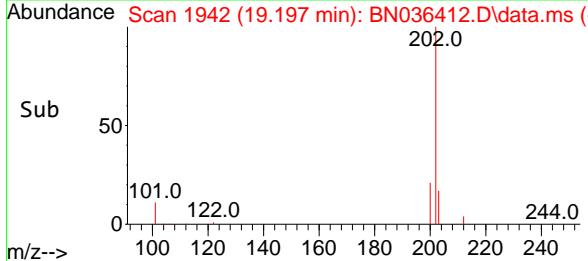
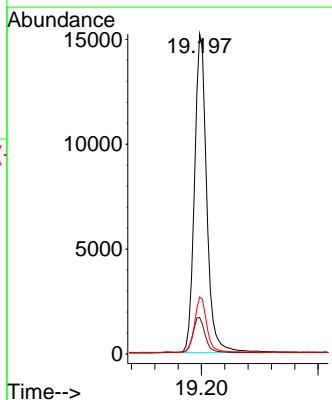
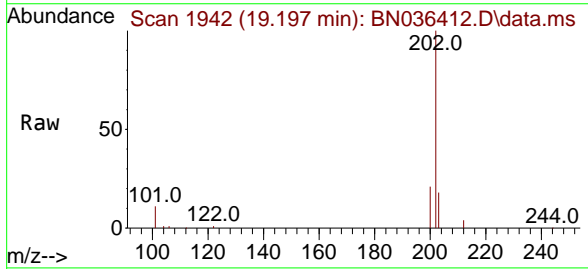
Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.5	17.3
104	8.4	7.1	10.7

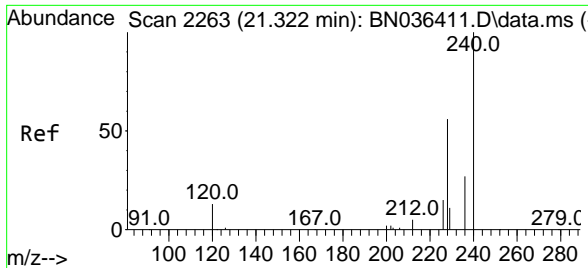


#28
 Fluoranthene
 Concen: 0.781 ng
 RT: 19.197 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:202 Resp: 22075

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.2	13.8
203	17.0	13.4	20.0

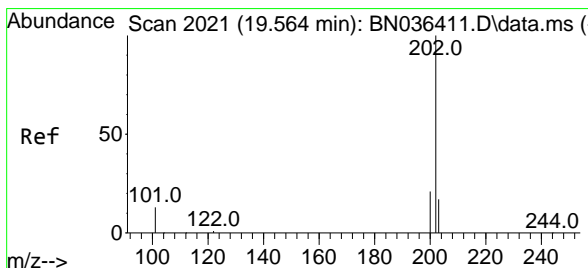
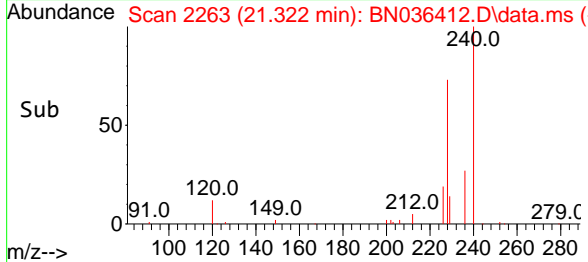
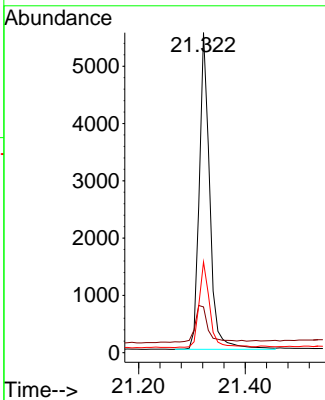
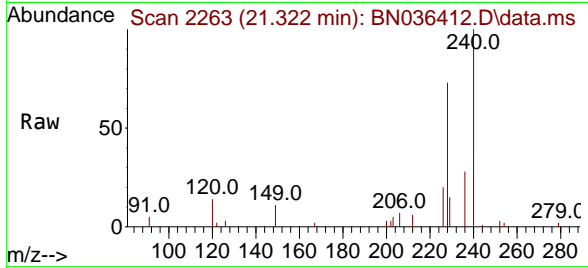




#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

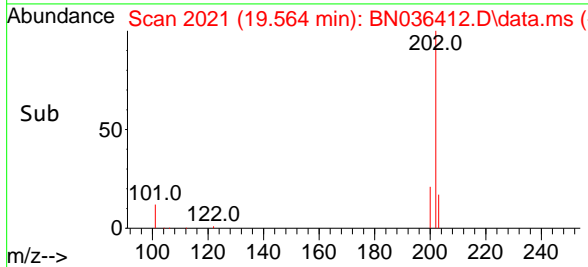
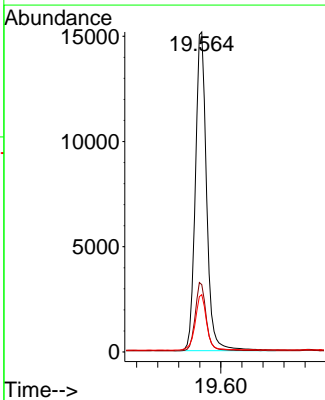
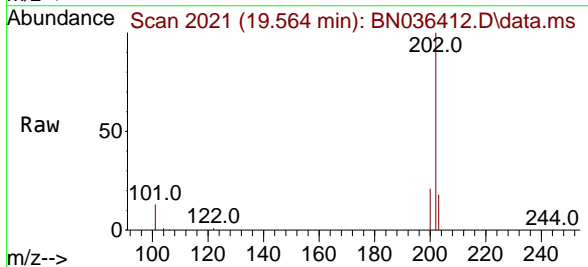
Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

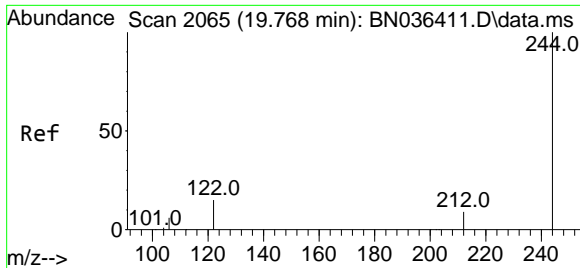
Tgt Ion	Resp	Ion Ratio	Lower	Upper
240	7521	100		
120	14.3	13.3	19.9	
236	28.3	23.0	34.6	



#30
 Pyrene
 Concen: 0.746 ng
 RT: 19.564 min Scan# 2021
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

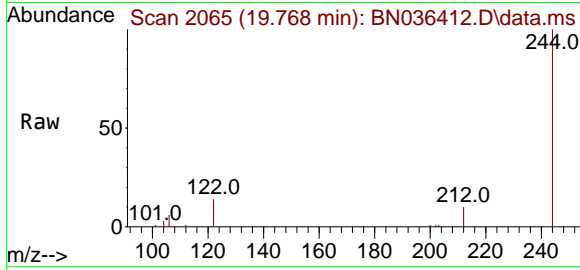
Tgt Ion	Resp	Ion Ratio	Lower	Upper
202	22410	100		
200	21.2	16.9	25.3	
203	17.9	13.9	20.9	



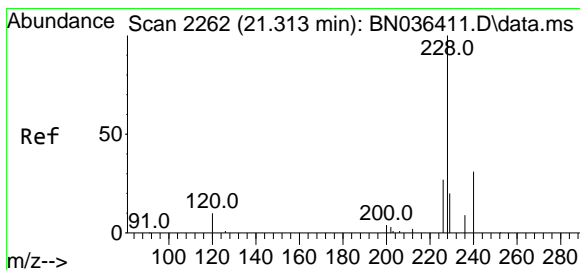
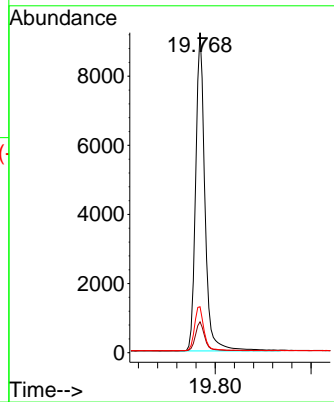
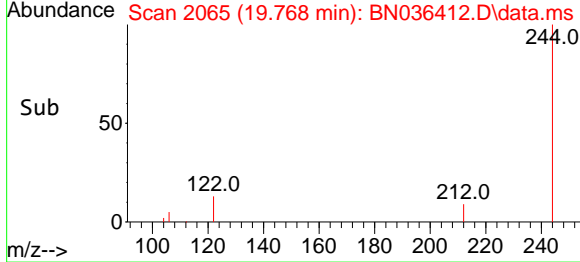


#31
 Terphenyl-d14
 Concen: 0.800 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

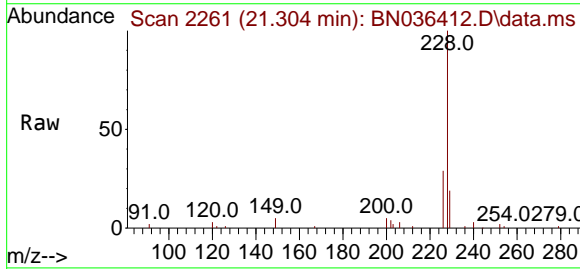
Instrument : BNA_N
 ClientSampleId : SSTDICC0.8



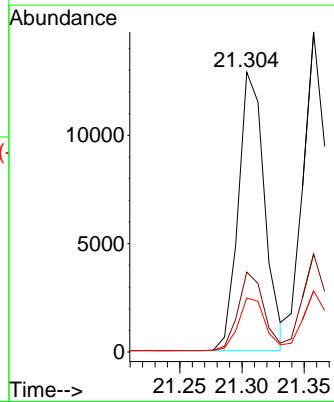
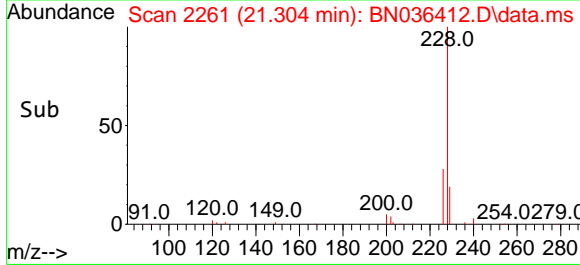
Tgt Ion:244 Resp: 12467
 Ion Ratio Lower Upper
 244 100
 212 9.6 8.1 12.1
 122 14.3 12.8 19.2

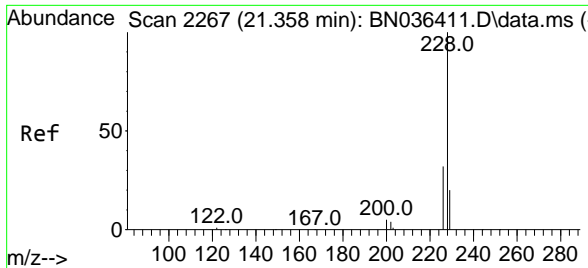


#32
 Benzo(a)anthracene
 Concen: 0.707 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12



Tgt Ion:228 Resp: 18881
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.2 33.2
 229 19.3 16.5 24.7

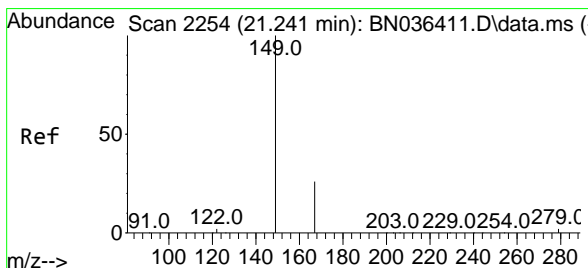
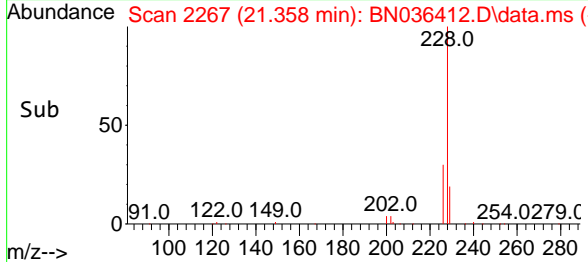
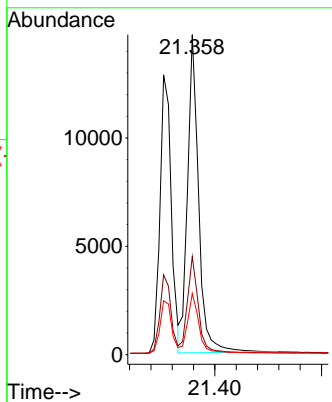
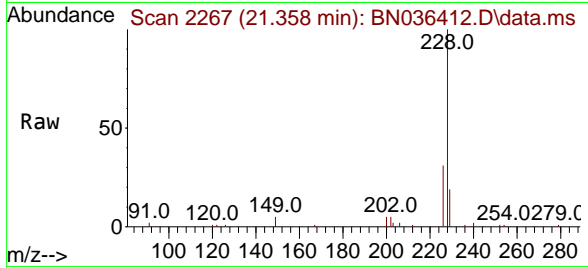




#33
 Chrysene
 Concen: 0.776 ng
 RT: 21.358 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

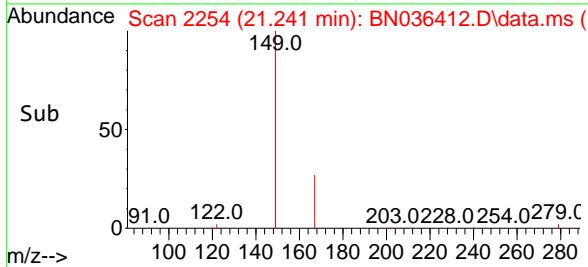
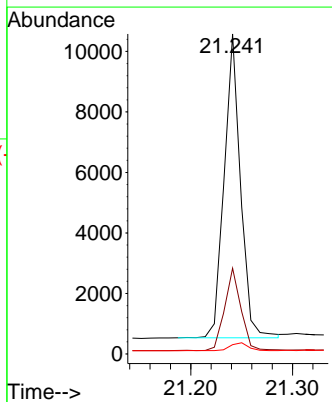
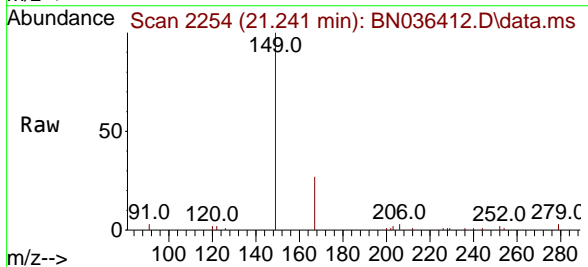
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

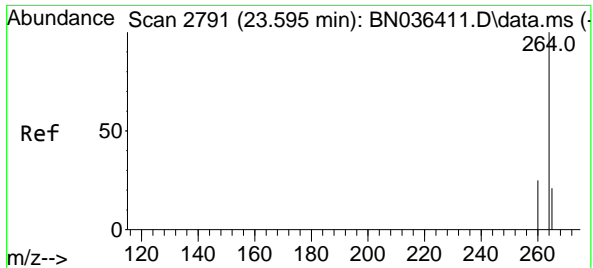
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.6	25.5	38.3
229	19.1	16.4	24.6



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.752 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion	Resp	Lower	Upper
149	100		
167	27.0	21.2	31.8
279	2.9	2.7	4.1

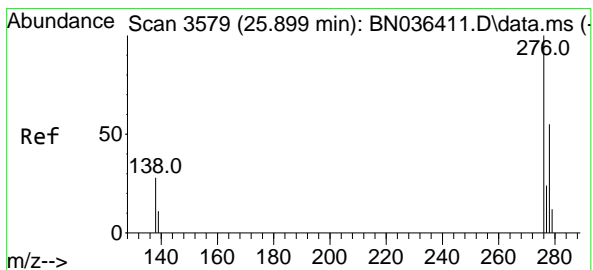
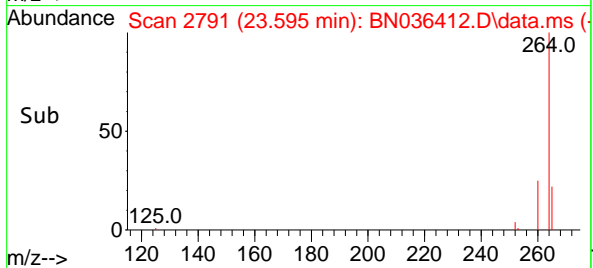
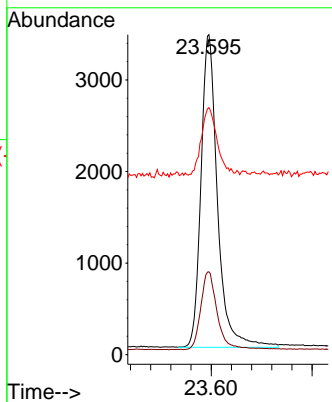
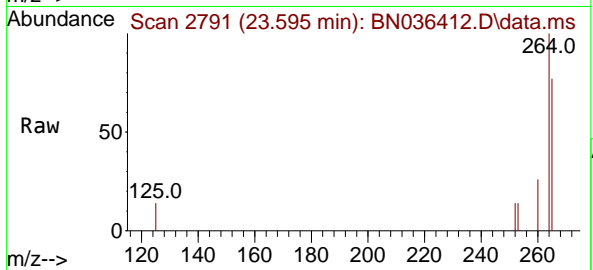




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.595 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

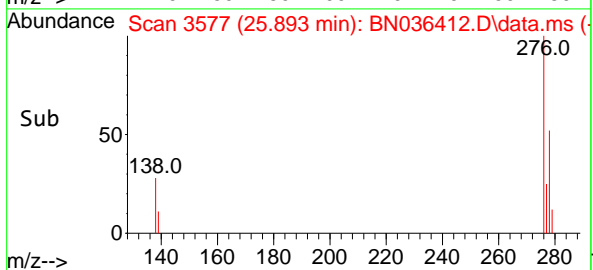
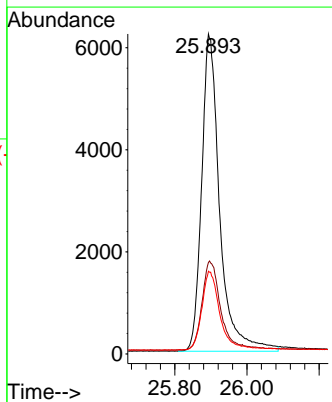
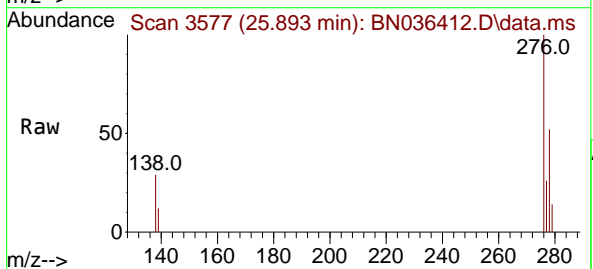
Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

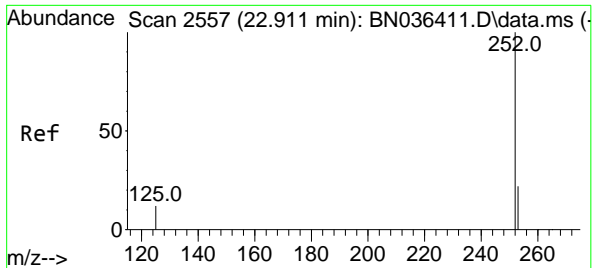
Tgt Ion	Resp	Lower	Upper
264	100		
260	25.9	20.9	31.3
265	77.2	60.7	91.1



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.708 ng
 RT: 25.893 min Scan# 3577
 Delta R.T. -0.006 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion	Resp	Lower	Upper
276	100		
138	28.9	22.2	33.2
277	23.9	19.8	29.6



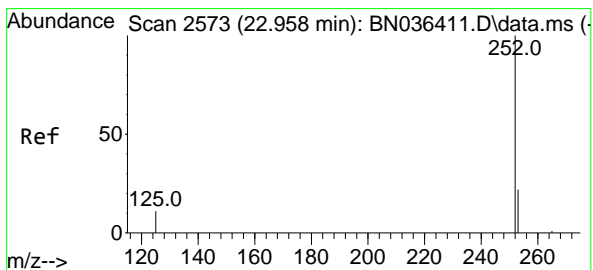
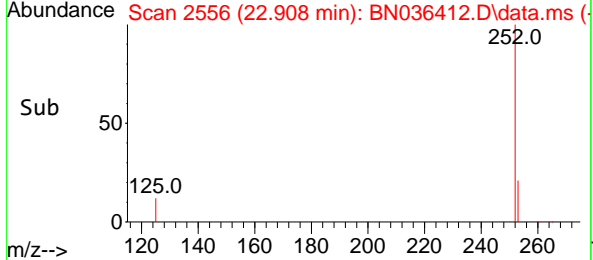
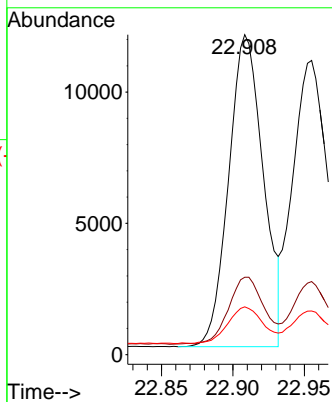
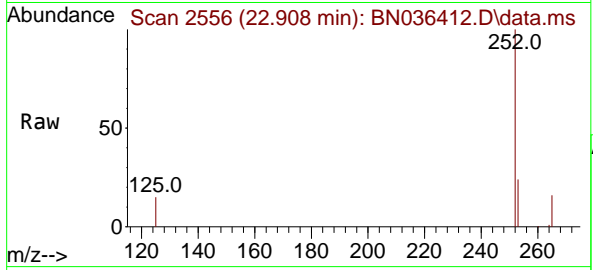


#37
 Benzo(b)fluoranthene
 Concen: 0.727 ng
 RT: 22.908 min Scan# 2556
 Delta R.T. -0.003 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

Tgt Ion:252 Resp: 20019

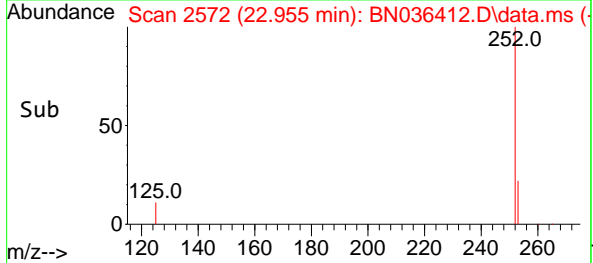
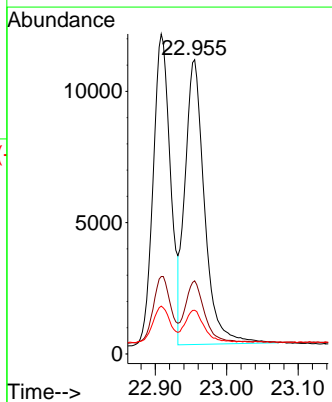
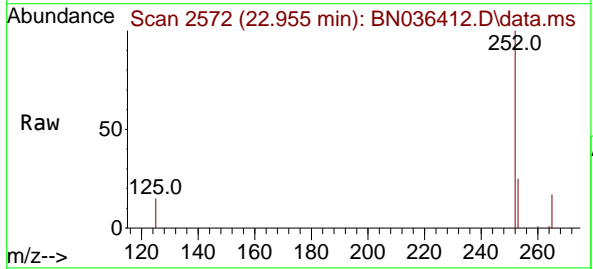
Ion	Ratio	Lower	Upper
252	100		
253	24.2	21.9	32.9
125	15.0	15.0	22.6

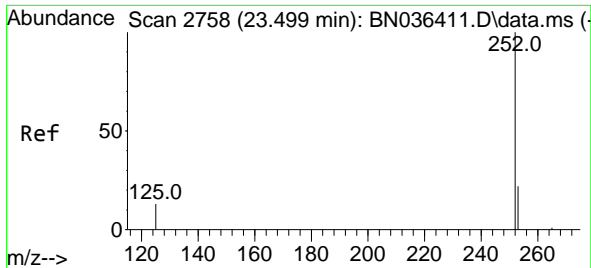


#38
 Benzo(k)fluoranthene
 Concen: 0.733 ng
 RT: 22.955 min Scan# 2572
 Delta R.T. -0.003 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:252 Resp: 20570

Ion	Ratio	Lower	Upper
252	100		
253	24.9	22.2	33.4
125	14.8	15.0	22.4



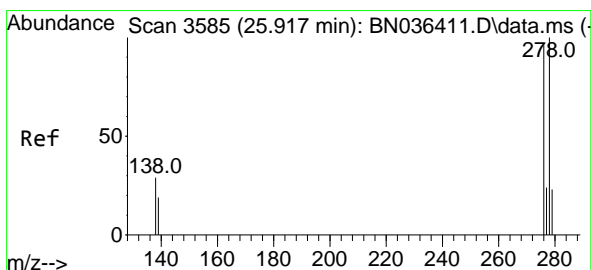
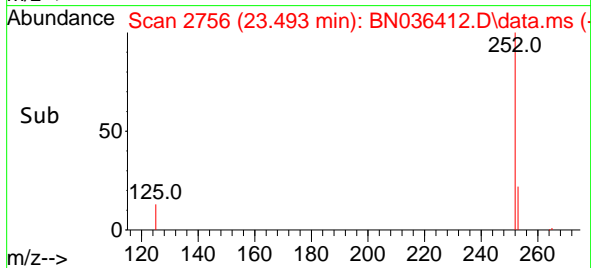
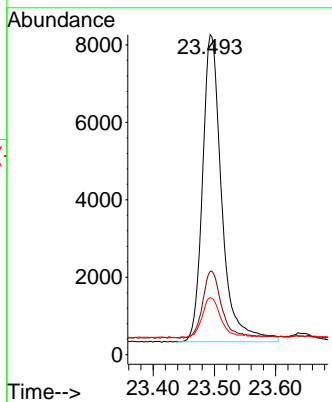
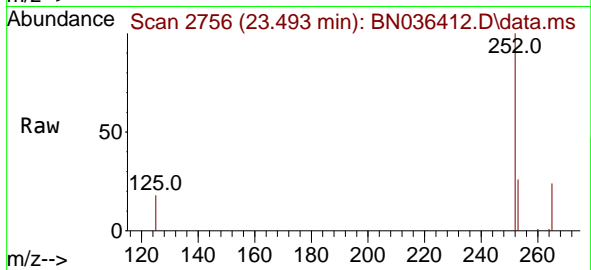


#39
 Benzo(a)pyrene
 Concen: 0.731 ng
 RT: 23.493 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Tgt Ion:252 Resp: 17289

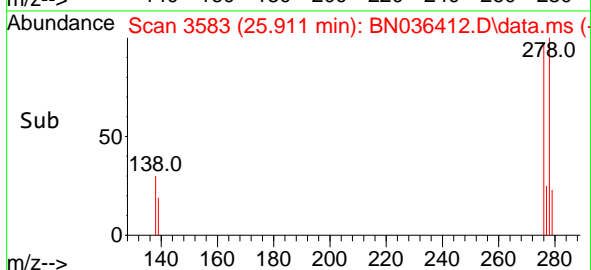
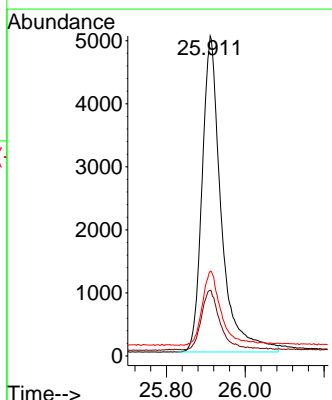
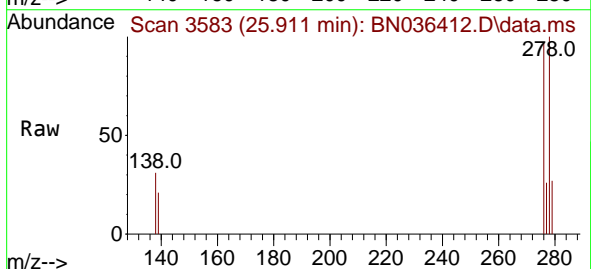
Ion	Ratio	Lower	Upper
252	100		
253	26.0	24.4	36.6
125	17.9	18.2	27.2#

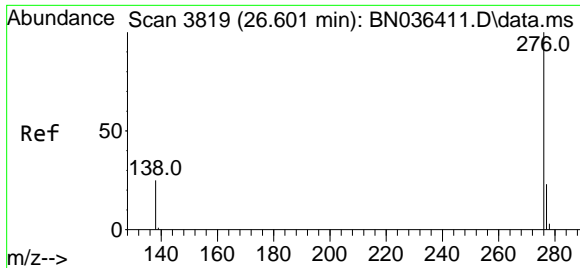


#40
 Dibenzo(a,h)anthracene
 Concen: 0.697 ng
 RT: 25.911 min Scan# 3583
 Delta R.T. -0.006 min
 Lab File: BN036412.D
 Acq: 10 Feb 2025 14:12

Tgt Ion:278 Resp: 16872

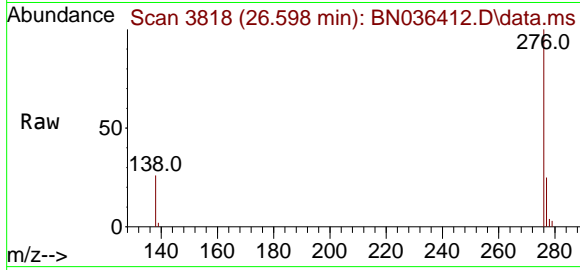
Ion	Ratio	Lower	Upper
278	100		
139	20.6	18.5	27.7
279	26.5	24.8	37.2





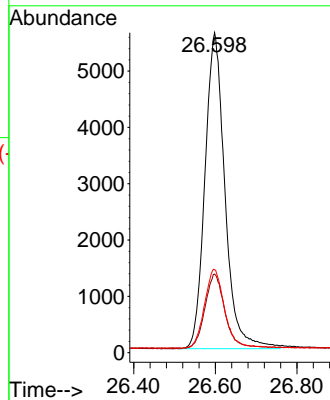
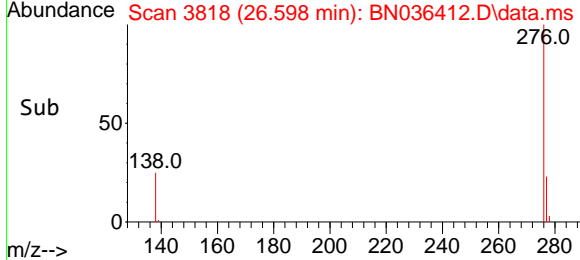
#41
Benzo(g,h,i)perylene
Concen: 0.718 ng
RT: 26.598 min Scan# 3818
Delta R.T. -0.003 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:276 Resp: 19078

Ion	Ratio	Lower	Upper
276	100		
277	24.6	20.7	31.1
138	26.0	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036413.D
 Acq On : 10 Feb 2025 14:48
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Feb 11 00:36:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

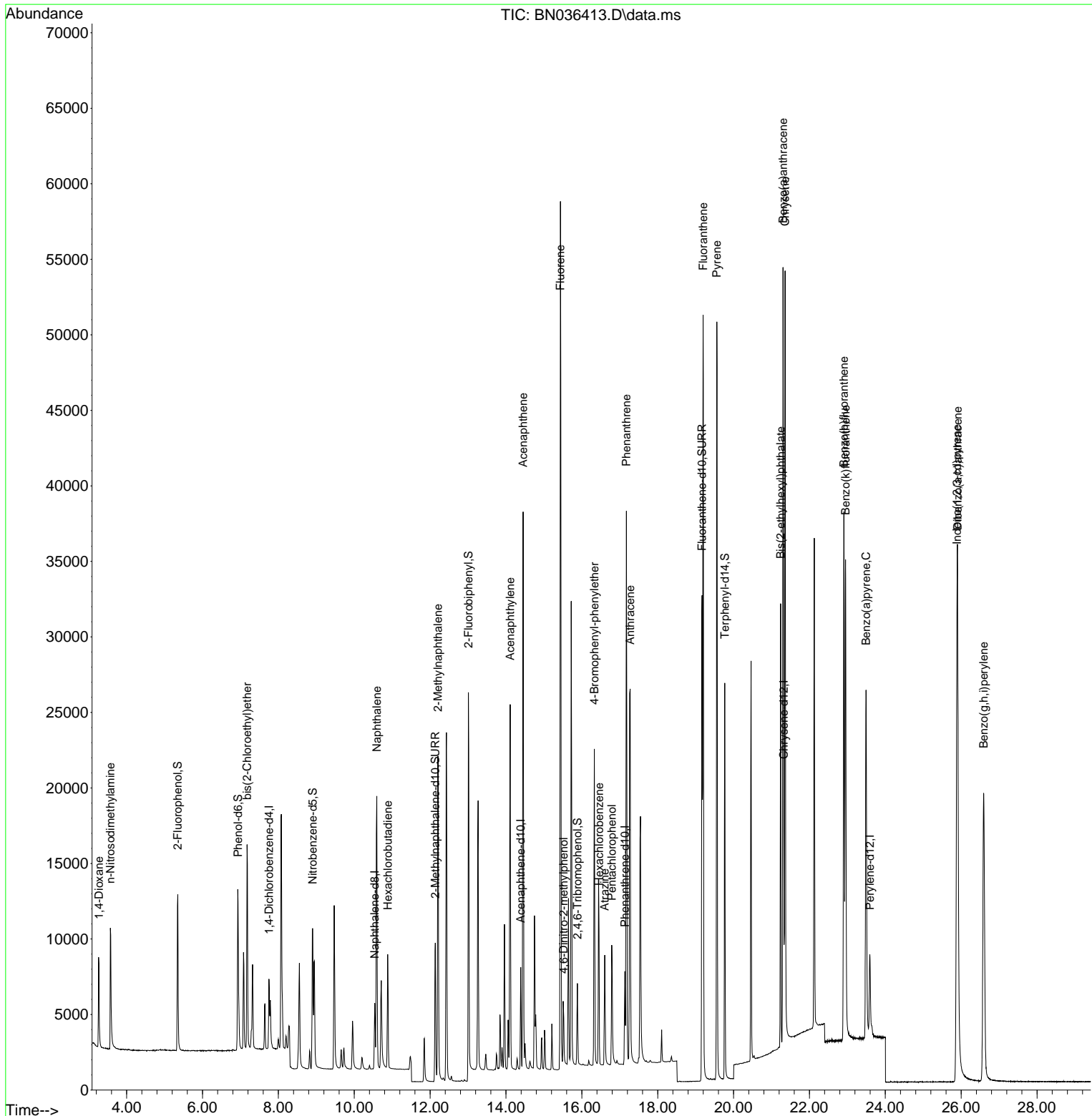
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2193	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	5625	0.400	ng	0.00	
13) Acenaphthene-d10	14.388	164	3645	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	8137	0.400	ng	0.00	
29) Chrysene-d12	21.322	240	7773	0.400	ng	# 0.00	
35) Perylene-d12	23.592	264	7967	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	8016	1.436	ng	0.00	
5) Phenol-d6	6.937	99	9644	1.481	ng	0.00	
8) Nitrobenzene-d5	8.907	82	8250	1.574	ng	0.00	
11) 2-Methylnaphthalene-d10	12.136	152	13436	1.746	ng	0.00	
14) 2,4,6-Tribromophenol	15.882	330	2844	1.266	ng	0.00	
15) 2-Fluorobiphenyl	13.008	172	22810	1.467	ng	-0.01	
27) Fluoranthene-d10	19.169	212	35740	1.707	ng	0.00	
31) Terphenyl-d14	19.768	244	25927	1.611	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	3606	1.487	ng	98	Qvalue
3) n-Nitrosodimethylamine	3.572	42	6208	1.425	ng	99	
6) bis(2-Chloroethyl)ether	7.175	93	9821	1.813	ng	98	
9) Naphthalene	10.594	128	24185	1.505	ng	97	
10) Hexachlorobutadiene	10.882	225	5933	1.178	ng	# 100	
12) 2-Methylnaphthalene	12.207	142	16325	1.617	ng	99	
16) Acenaphthylene	14.110	152	25289	1.499	ng	100	
17) Acenaphthene	14.452	154	17130	1.483	ng	97	
18) Fluorene	15.435	166	24341	1.638	ng	100	
20) 4,6-Dinitro-2-methylph...	15.522	198	2725	1.497	ng	# 47	
21) 4-Bromophenyl-phenylether	16.329	248	7690	1.379	ng	91	
22) Hexachlorobenzene	16.453	284	9401	1.292	ng	97	
23) Atrazine	16.602	200	6316	1.541	ng	95	
24) Pentachlorophenol	16.789	266	4352	1.368	ng	99	
25) Phenanthrene	17.173	178	37027	1.552	ng	100	
26) Anthracene	17.273	178	33031	1.524	ng	99	
28) Fluoranthene	19.197	202	45708	1.617	ng	99	
30) Pyrene	19.559	202	46256	1.489	ng	100	
32) Benzo(a)anthracene	21.304	228	40416	1.463	ng	99	
33) Chrysene	21.357	228	43661	1.542	ng	97	
34) Bis(2-ethylhexyl)phtha...	21.241	149	23672	1.538	ng	99	
36) Indeno(1,2,3-cd)pyrene	25.890	276	46083	1.472	ng	98	
37) Benzo(b)fluoranthene	22.908	252	42491	1.502	ng	# 89	
38) Benzo(k)fluoranthene	22.952	252	42933	1.489	ng	# 89	
39) Benzo(a)pyrene	23.493	252	36490	1.503	ng	# 86	
40) Dibenzo(a,h)anthracene	25.905	278	36765	1.478	ng	# 90	
41) Benzo(g,h,i)perylene	26.592	276	40441	1.482	ng	98	

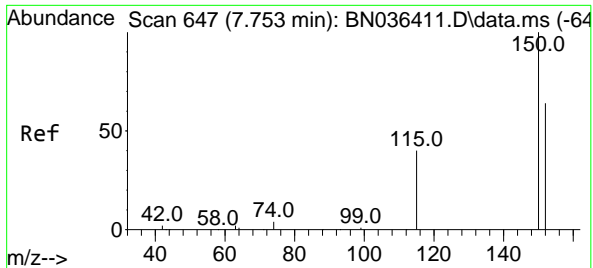
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036413.D
 Acq On : 10 Feb 2025 14:48
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Feb 11 00:36:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration



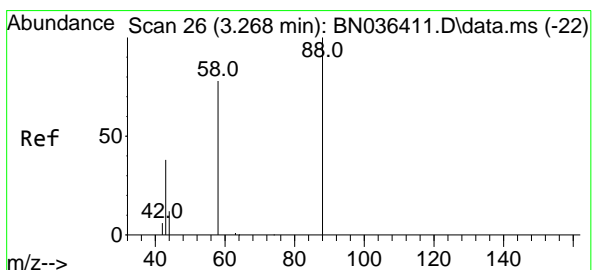
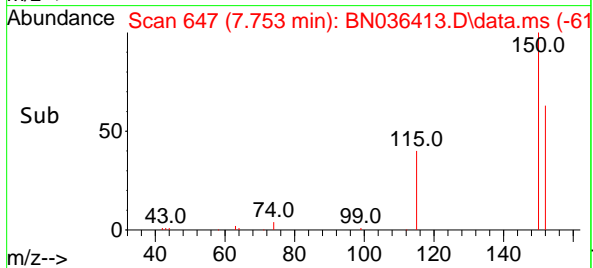
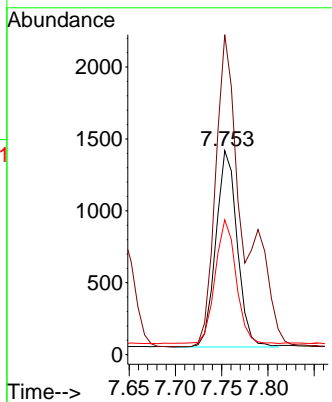
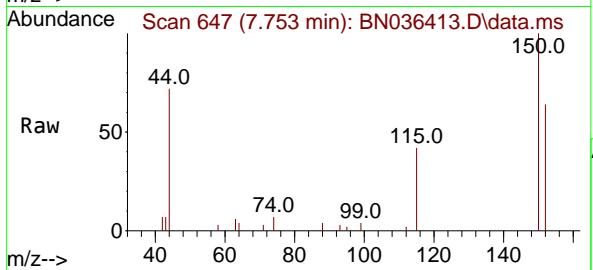


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Tgt Ion:152 Resp: 2193

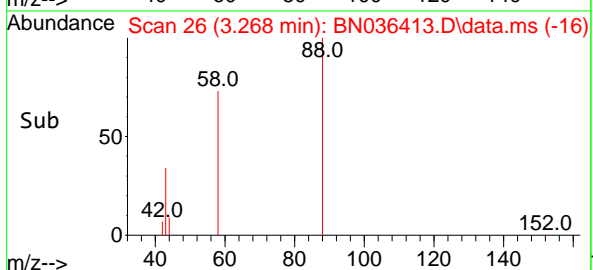
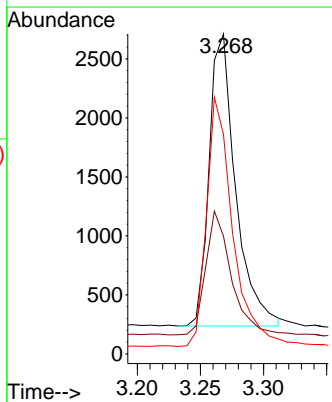
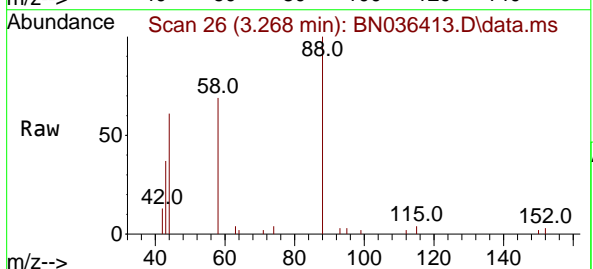
Ion	Ratio	Lower	Upper
152	100		
150	156.9	123.7	185.5
115	66.1	52.5	78.7

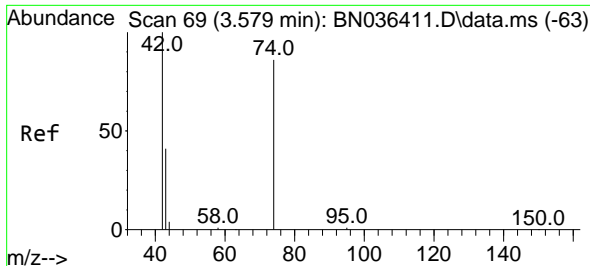


#2
 1,4-Dioxane
 Concen: 1.487 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion: 88 Resp: 3606

Ion	Ratio	Lower	Upper
88	100		
43	40.7	33.7	50.5
58	84.0	68.9	103.3





#3
 n-Nitrosodimethylamine
 Concen: 1.425 ng
 RT: 3.572 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument :

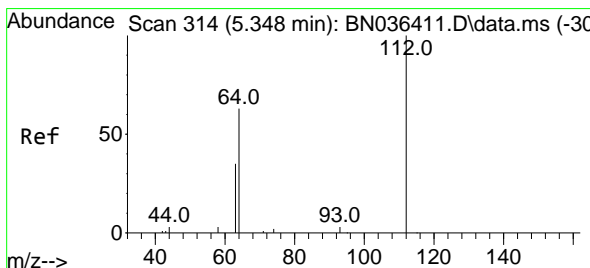
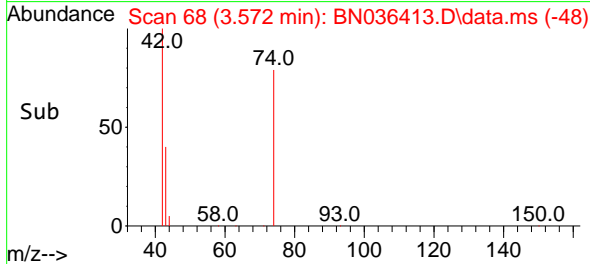
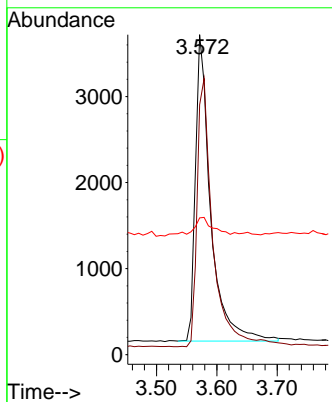
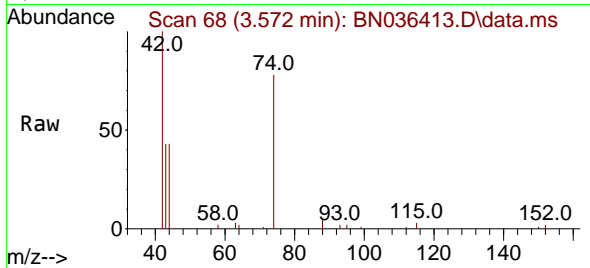
BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion: 42 Resp: 6208

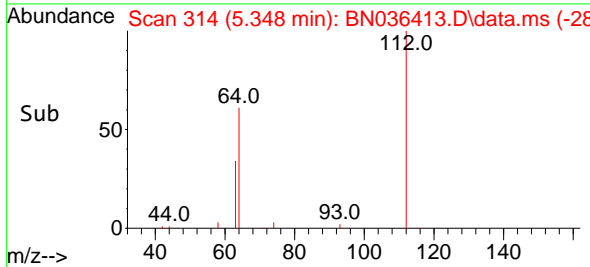
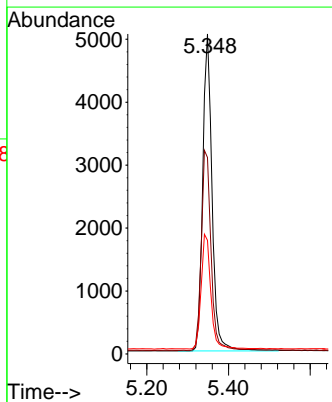
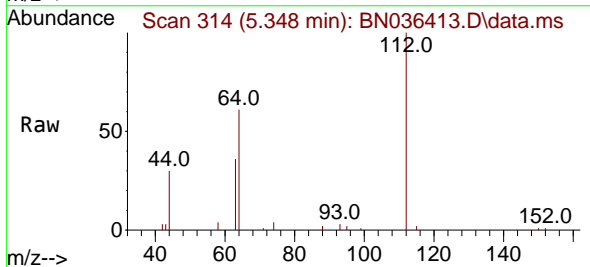
Ion	Ratio	Lower	Upper
42	100		
74	90.8	71.8	107.6
44	7.9	7.8	11.6

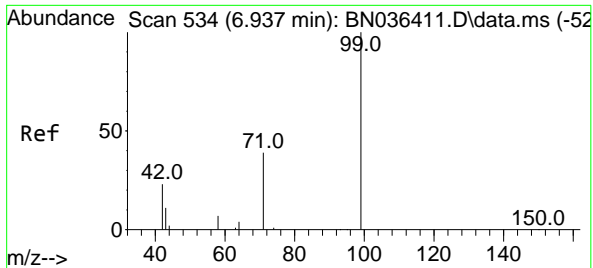


#4
 2-Fluorophenol
 Concen: 1.436 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion: 112 Resp: 8016

Ion	Ratio	Lower	Upper
112	100		
64	65.9	53.4	80.0
63	37.6	30.3	45.5

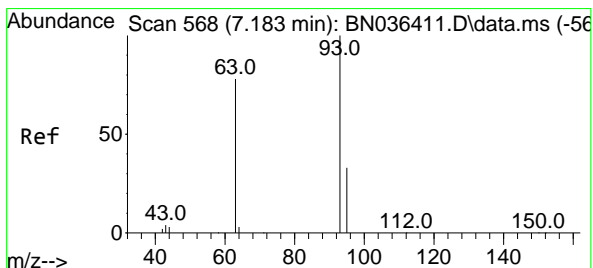
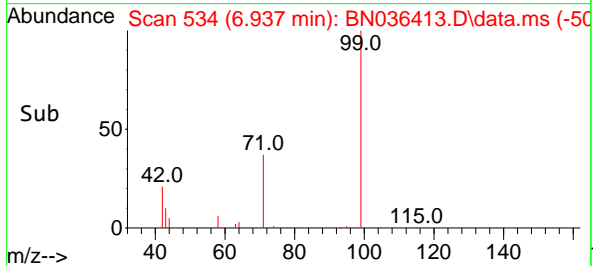
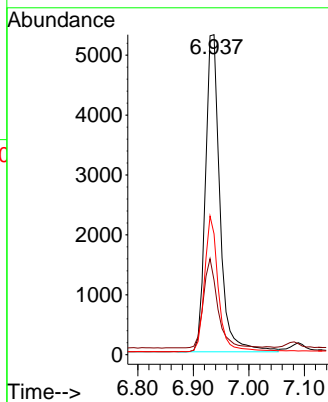
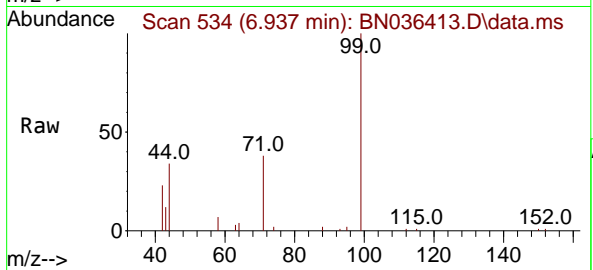




#5
 Phenol-d6
 Concen: 1.481 ng
 RT: 6.937 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

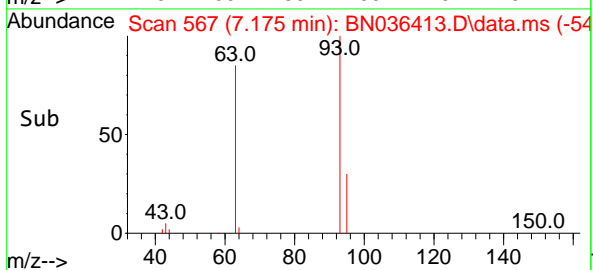
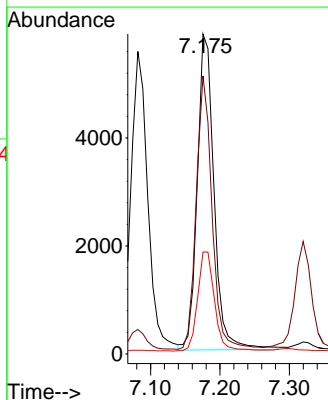
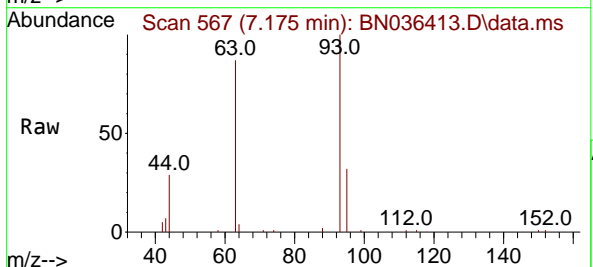
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

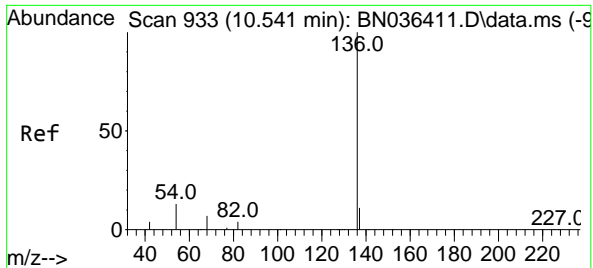
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	9644	100		
42	27.7	21.7	32.5	
71	41.1	32.6	49.0	



#6
 bis(2-Chloroethyl)ether
 Concen: 1.813 ng
 RT: 7.175 min Scan# 567
 Delta R.T. -0.007 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	9821	100		
63	81.0	66.3	99.5	
95	31.5	26.2	39.4	



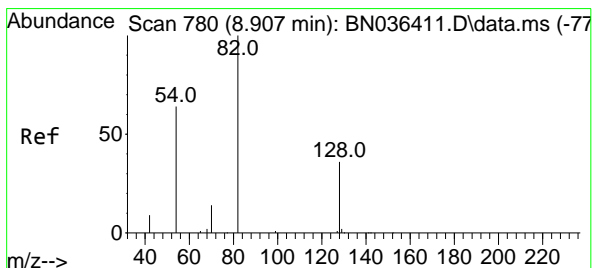
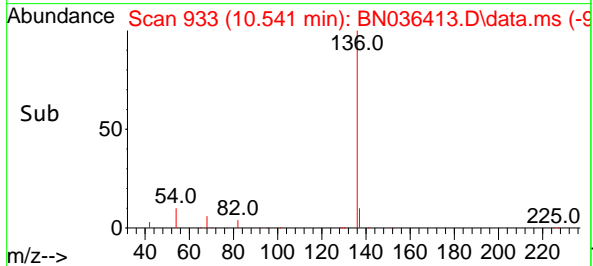
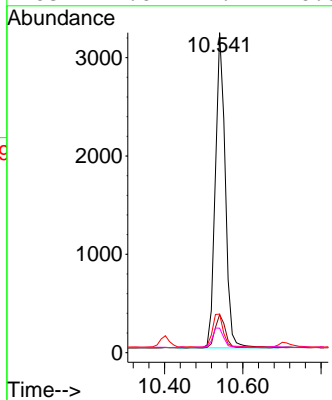
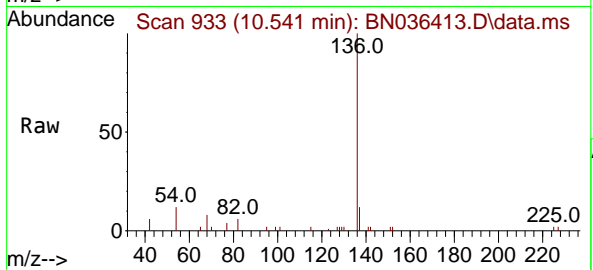


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 5625

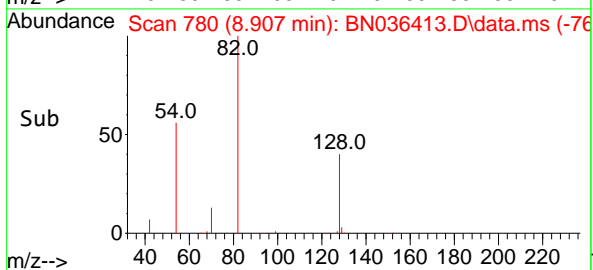
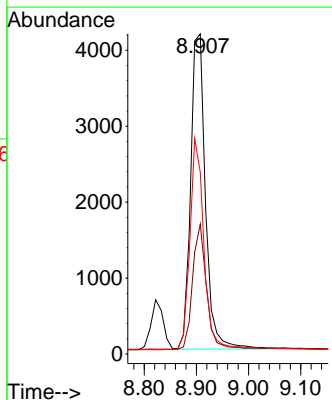
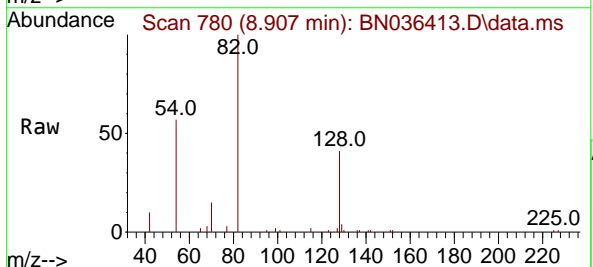
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	12.0	11.8	17.6
68	7.6	7.2	10.8

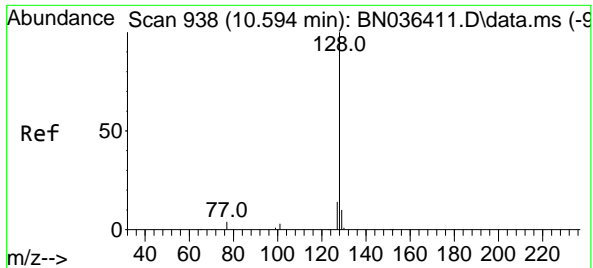


#8
Nitrobenzene-d5
Concen: 1.574 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion: 82 Resp: 8250

Ion	Ratio	Lower	Upper
82	100		
128	40.6	31.9	47.9
54	56.8	53.1	79.7



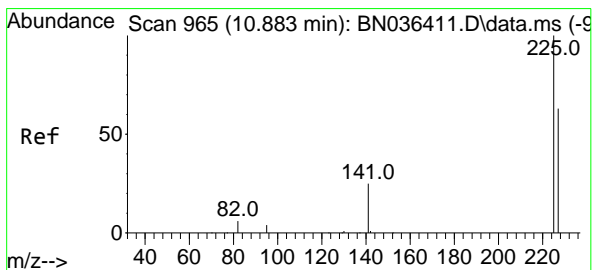
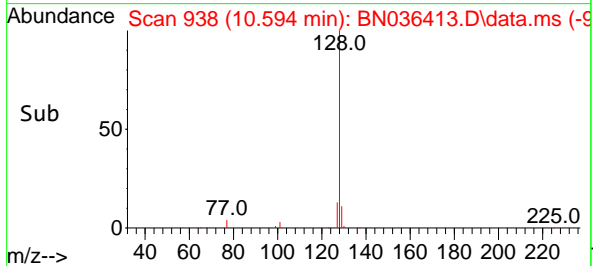
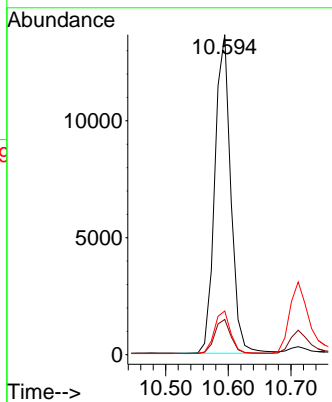
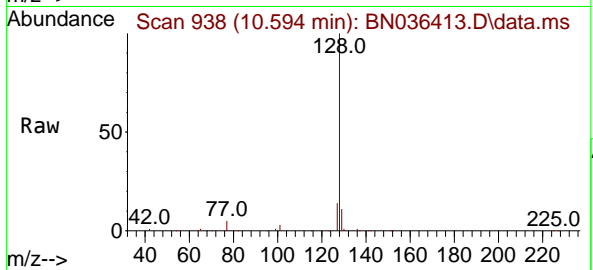


#9
Naphthalene
Concen: 1.505 ng
RT: 10.594 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Instrument : BNA_N
ClientSampleId : SSTDICC1.6

Tgt Ion:128 Resp: 24185

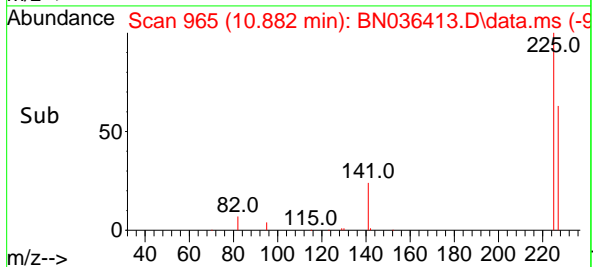
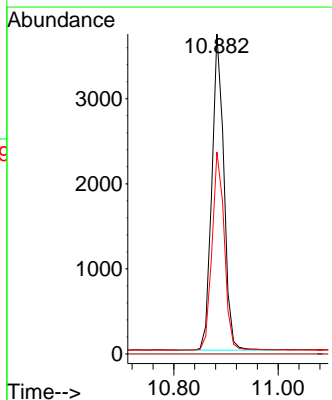
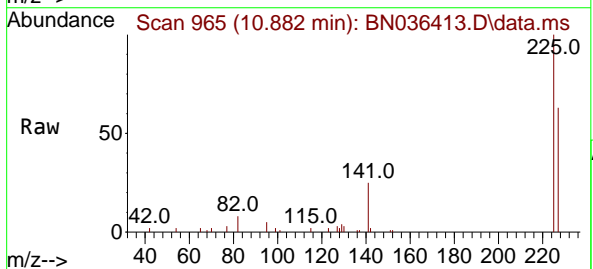
Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.6	14.4
127	13.7	12.0	18.0

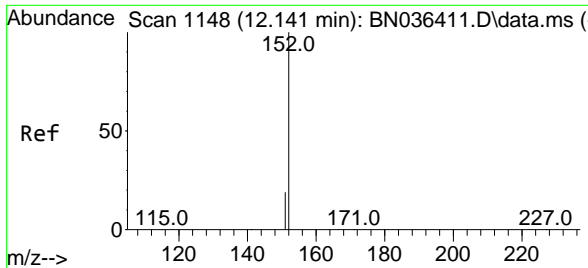


#10
Hexachlorobutadiene
Concen: 1.178 ng
RT: 10.882 min Scan# 965
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:225 Resp: 5933

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.9	76.3

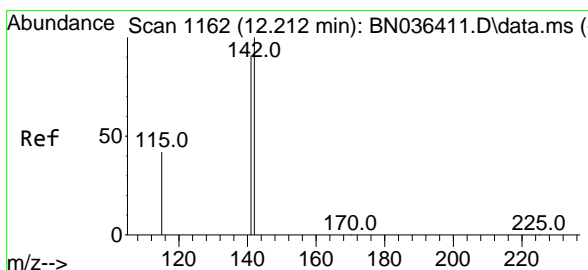
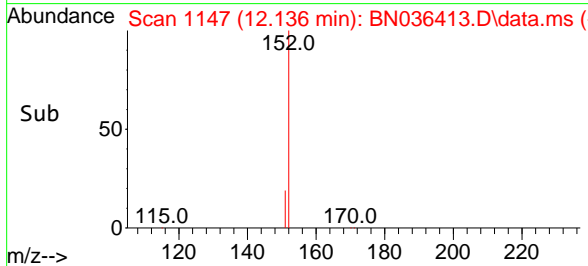
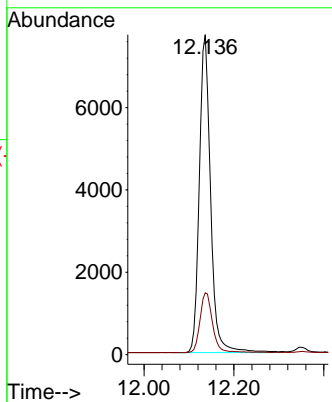
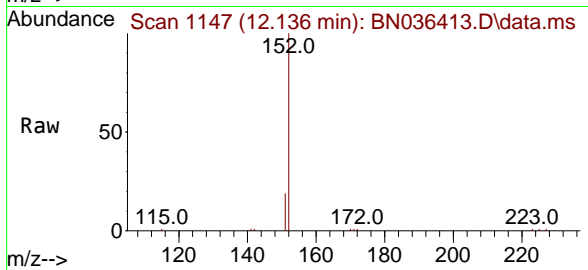




#11
 2-Methylnaphthalene-d10
 Concen: 1.746 ng
 RT: 12.136 min Scan# 1147
 Delta R.T. -0.005 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

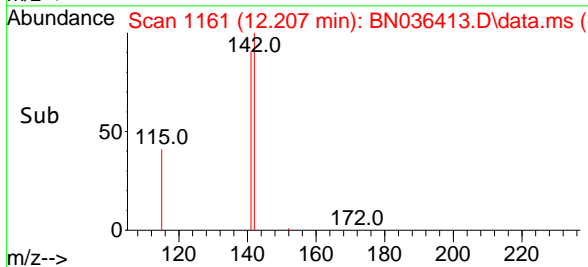
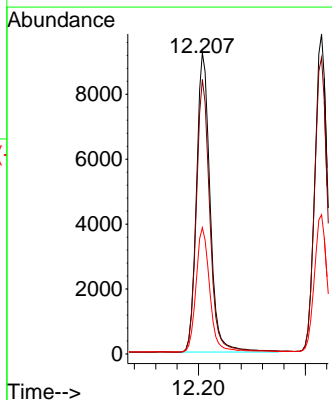
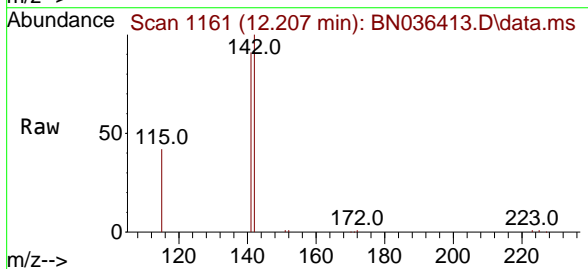
Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

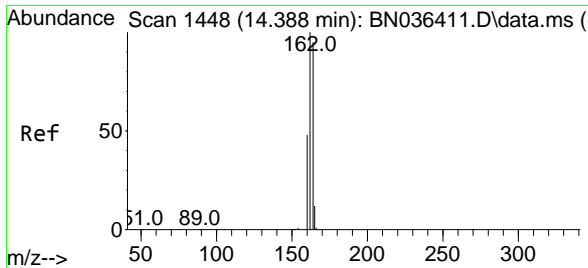
Tgt Ion:152 Resp: 13436
 Ion Ratio Lower Upper
 152 100
 151 20.8 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 1.617 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:142 Resp: 16325
 Ion Ratio Lower Upper
 142 100
 141 91.0 72.8 109.2
 115 41.9 35.5 53.3



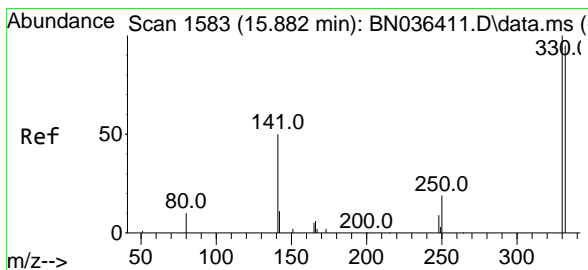
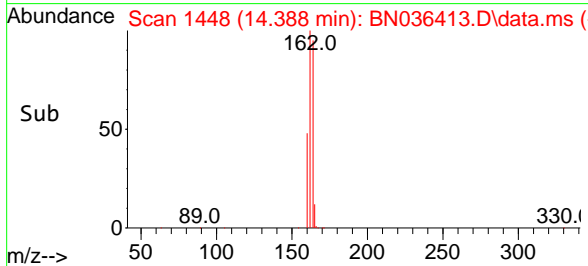
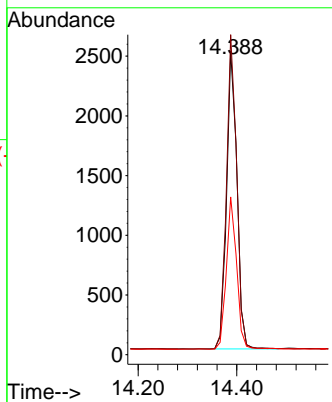
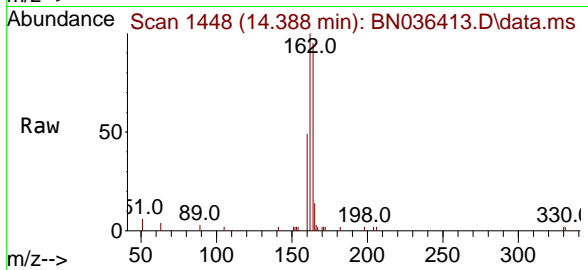


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.388 min Scan# 1448
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

Tgt Ion:164 Resp: 3645

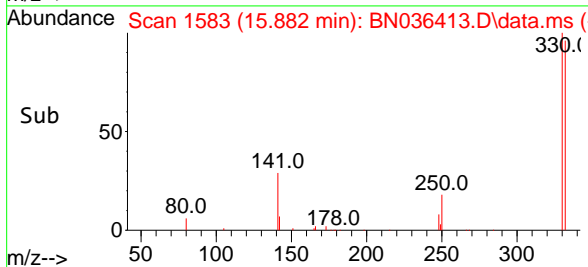
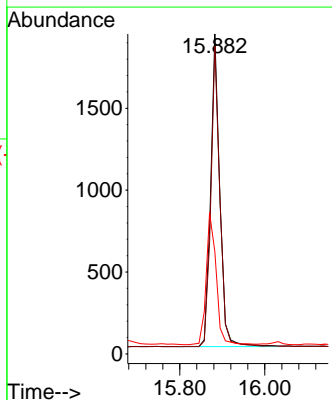
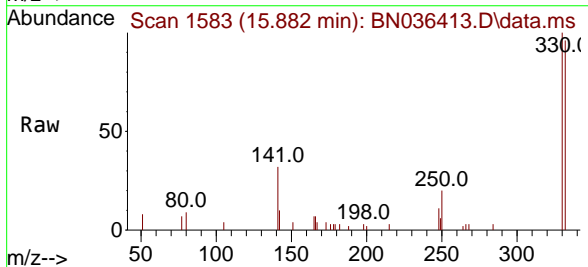
Ion	Ratio	Lower	Upper
164	100		
162	105.5	84.1	126.1
160	52.0	41.4	62.0

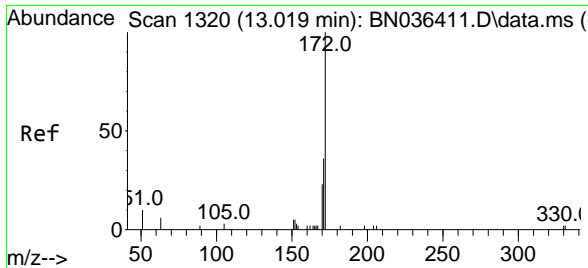


#14
 2,4,6-Tribromophenol
 Concen: 1.266 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:330 Resp: 2844

Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.6	114.8
141	46.0	37.8	56.8



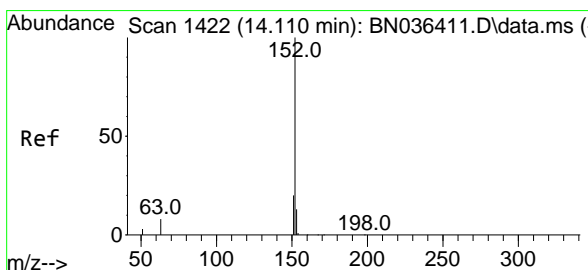
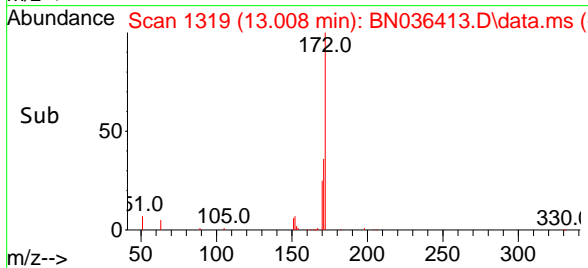
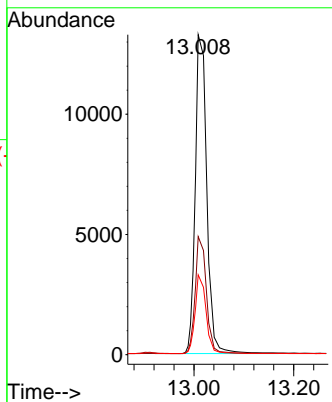
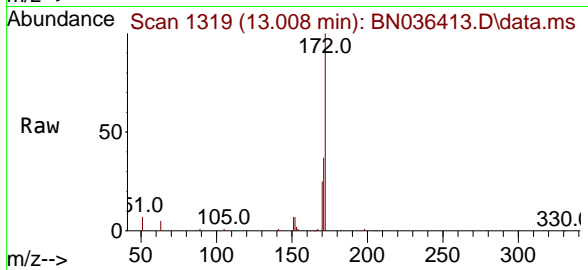


#15
 2-Fluorobiphenyl
 Concen: 1.467 ng
 RT: 13.008 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

Tgt Ion:172 Resp: 22810

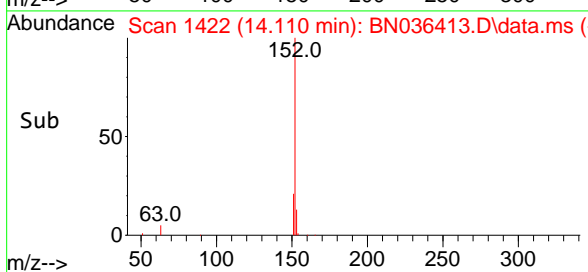
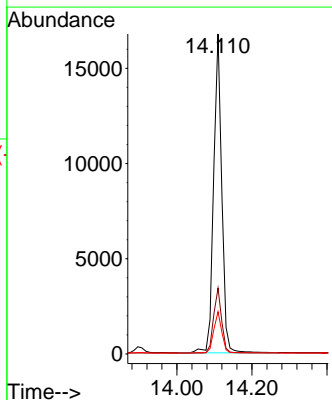
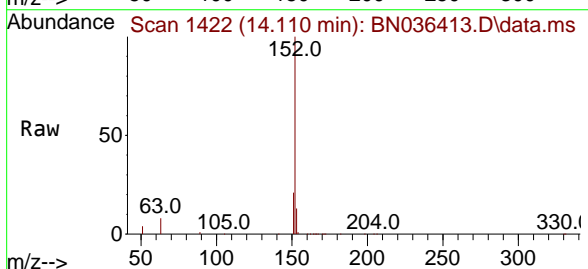
Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.6	44.4
170	25.0	19.8	29.6

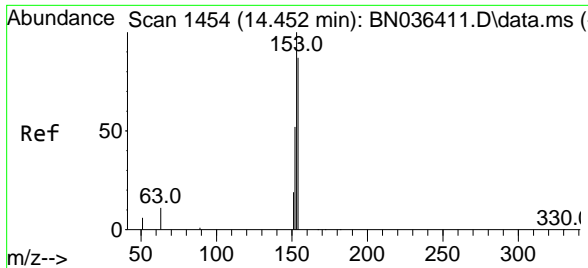


#16
 Acenaphthylene
 Concen: 1.499 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:152 Resp: 25289

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	12.9	10.2	15.2

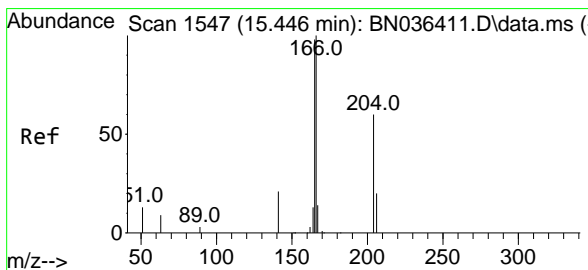
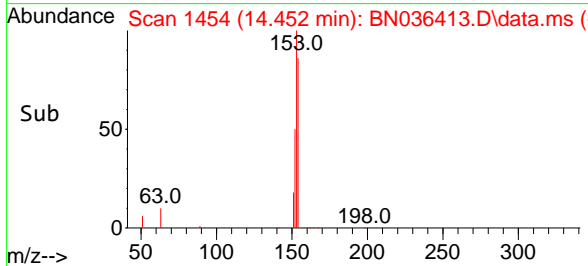
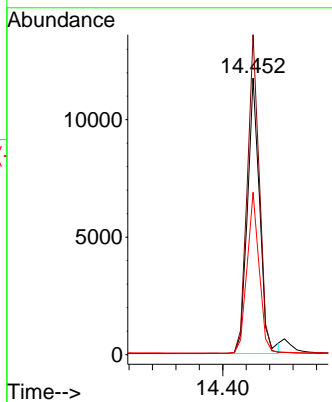
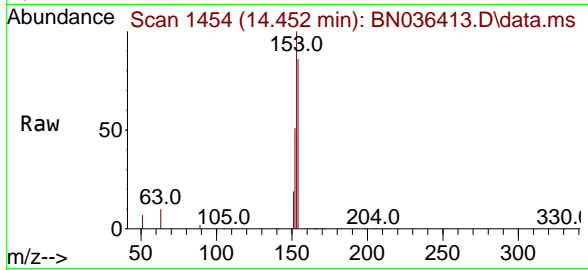




#17
 Acenaphthene
 Concen: 1.483 ng
 RT: 14.452 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

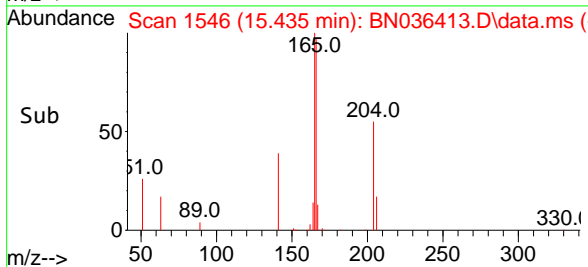
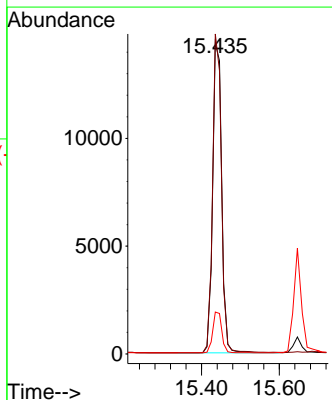
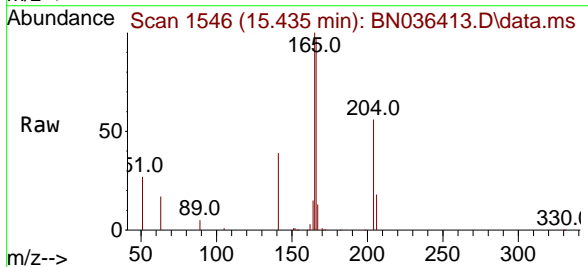
Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

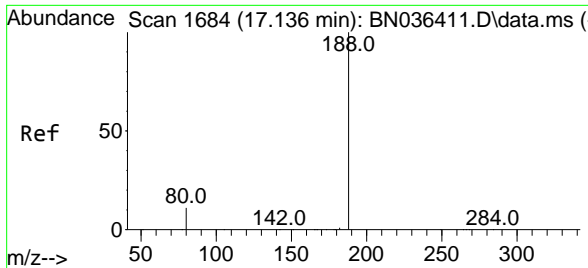
Tgt Ion	Resp	Lower	Upper
154	17130		
153	114.1	93.3	139.9
152	58.1	48.8	73.2



#18
 Fluorene
 Concen: 1.638 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion	Resp	Lower	Upper
166	24341		
165	99.5	79.5	119.3
167	13.2	10.4	15.6



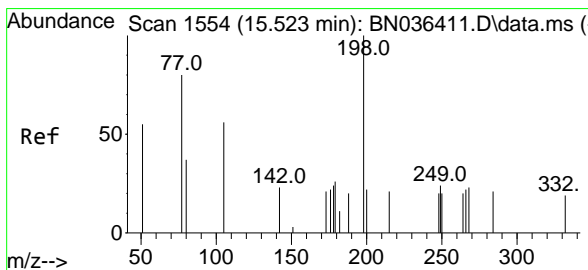
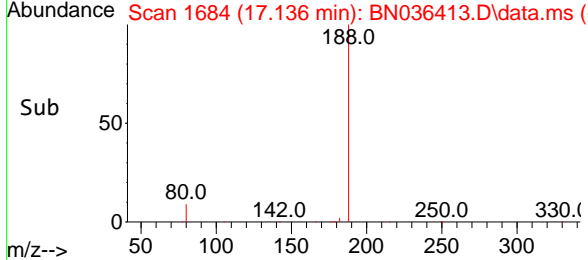
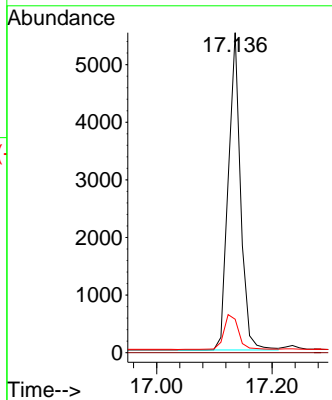
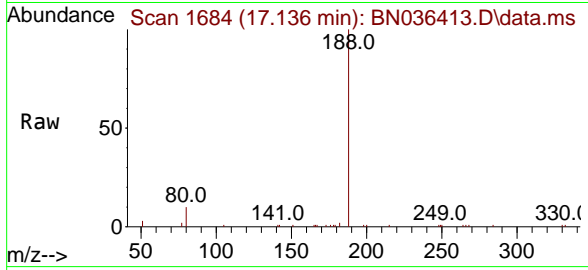


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 Client Sample Id : SSTDICC1.6

Tgt Ion:188 Resp: 8137

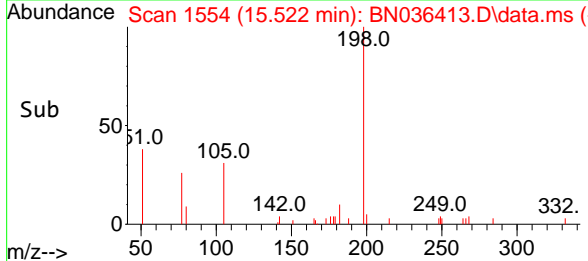
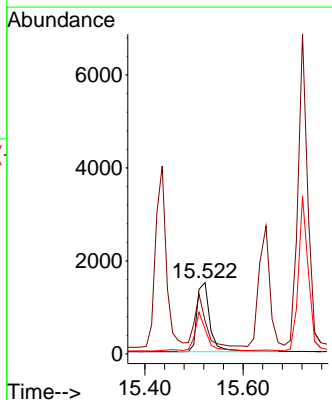
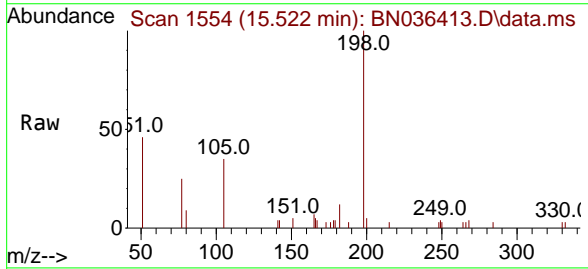
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	9.8	14.6

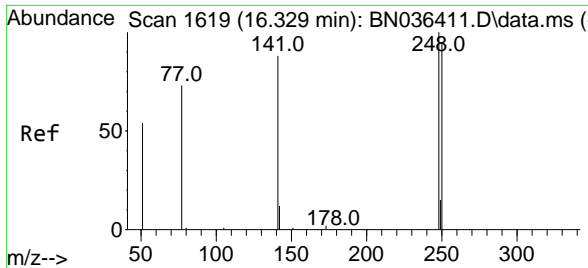


#20
 4,6-Dinitro-2-methylphenol
 Concen: 1.497 ng
 RT: 15.522 min Scan# 1554
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:198 Resp: 2725

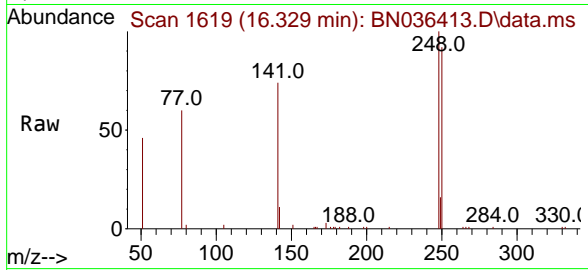
Ion	Ratio	Lower	Upper
198	100		
51	46.4	86.6	129.8#
105	34.9	57.5	86.3#





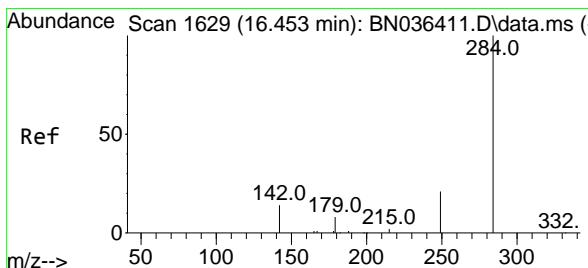
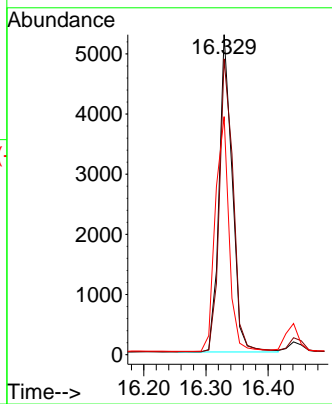
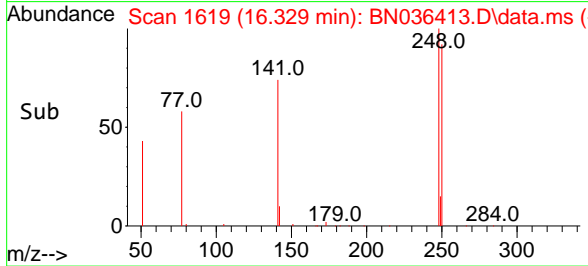
#21
 4-Bromophenyl-phenylether
 Concen: 1.379 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

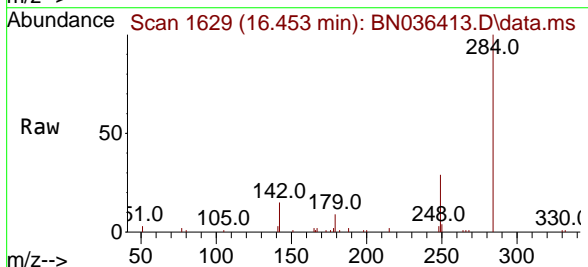


Tgt Ion: 248 Resp: 7690

Ion	Ratio	Lower	Upper
248	100		
250	92.4	76.1	114.1
141	74.4	71.7	107.5

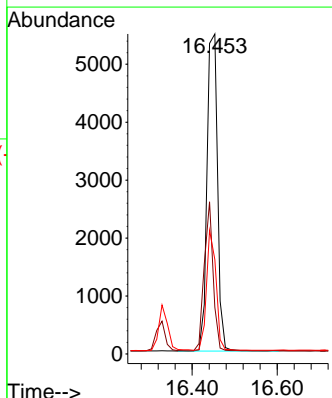
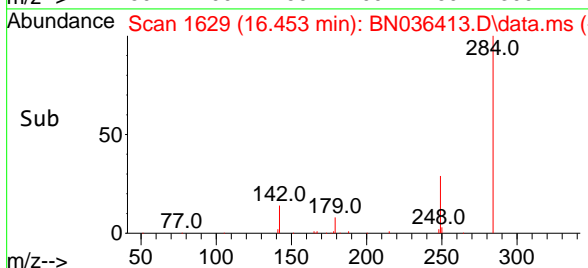


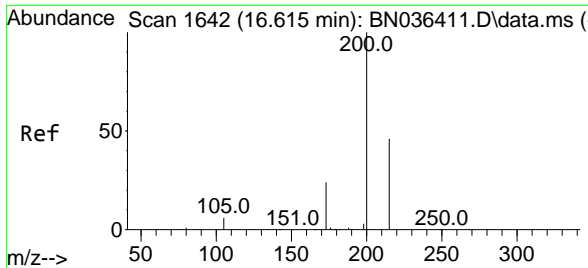
#22
 Hexachlorobenzene
 Concen: 1.292 ng
 RT: 16.453 min Scan# 1629
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48



Tgt Ion: 284 Resp: 9401

Ion	Ratio	Lower	Upper
284	100		
142	39.9	33.4	50.0
249	34.3	28.6	43.0



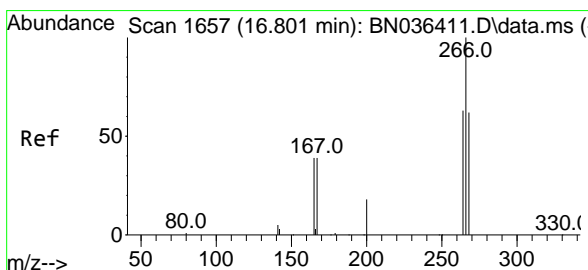
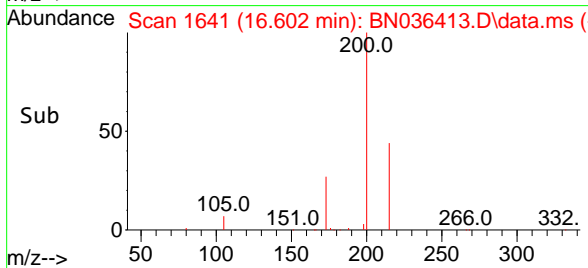
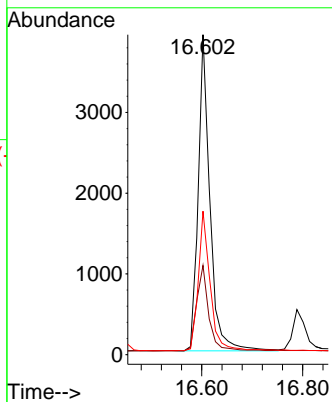
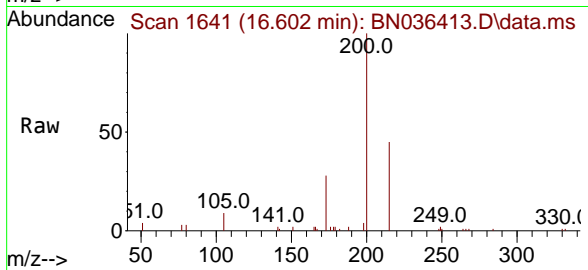


#23
 Atrazine
 Concen: 1.541 ng
 RT: 16.602 min Scan# 1641
 Delta R.T. -0.012 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

Tgt Ion: 200 Resp: 6316

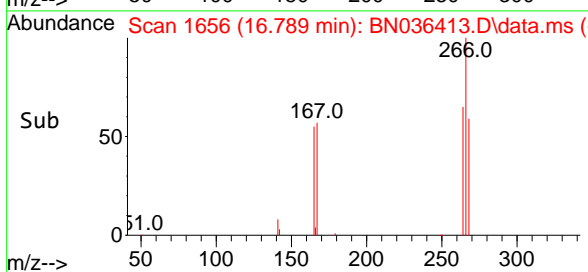
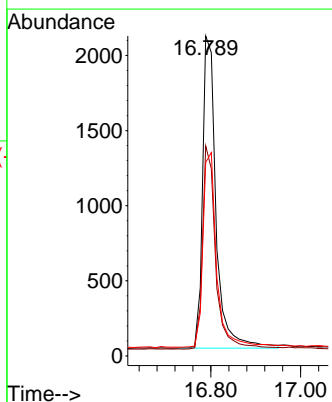
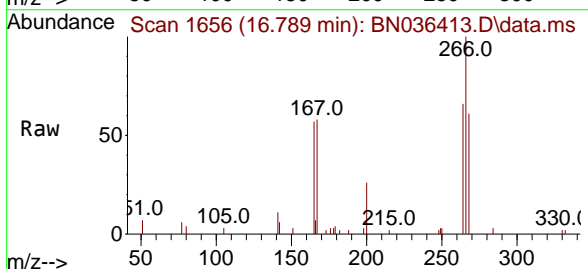
Ion	Ratio	Lower	Upper
200	100		
173	27.9	23.2	34.8
215	44.8	40.0	60.0

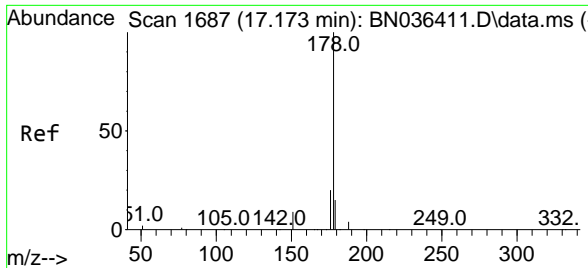


#24
 Pentachlorophenol
 Concen: 1.368 ng
 RT: 16.789 min Scan# 1656
 Delta R.T. -0.012 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion: 266 Resp: 4352

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.6	76.0
268	63.3	51.9	77.9



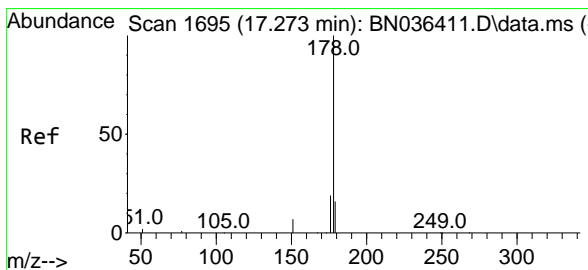
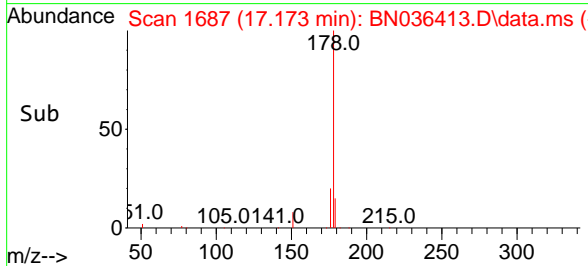
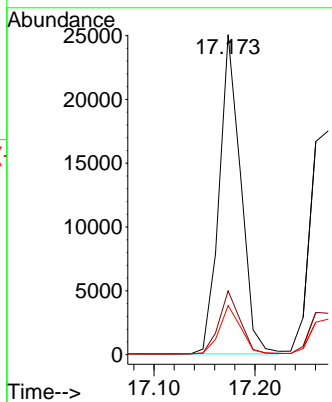
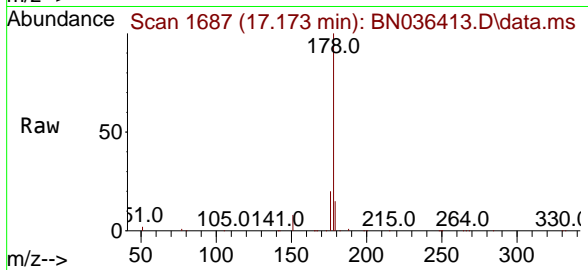


#25
 Phenanthrene
 Concen: 1.552 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 Client Sample Id : SSTDICC1.6

Tgt Ion: 178 Resp: 37027

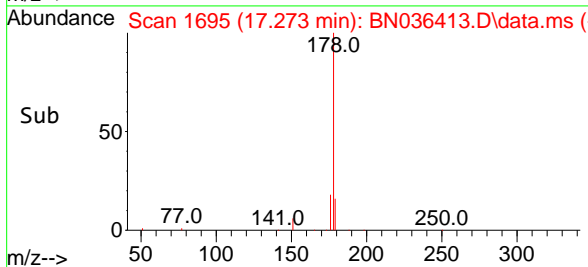
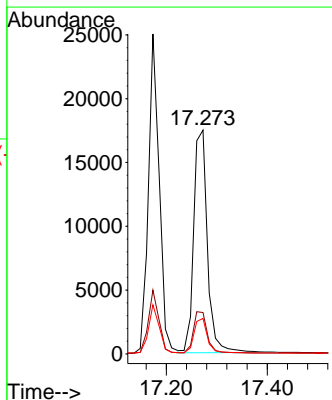
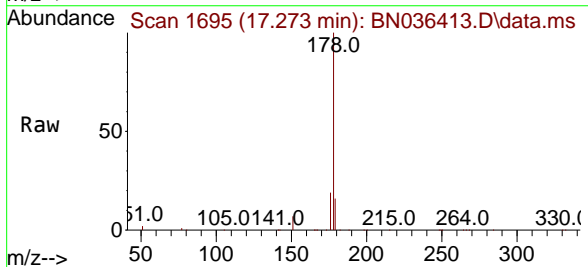
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.1	12.4	18.6

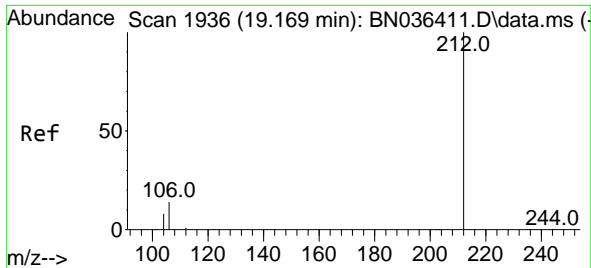


#26
 Anthracene
 Concen: 1.524 ng
 RT: 17.273 min Scan# 1695
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion: 178 Resp: 33031

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	15.2	12.4	18.6



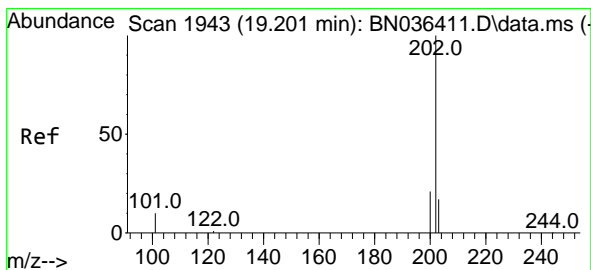
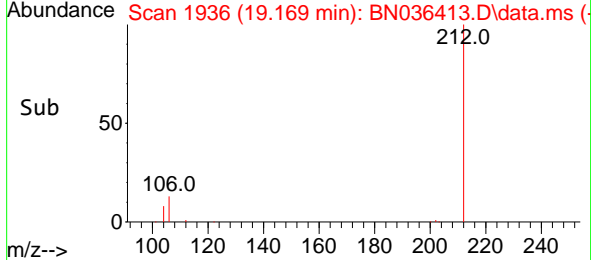
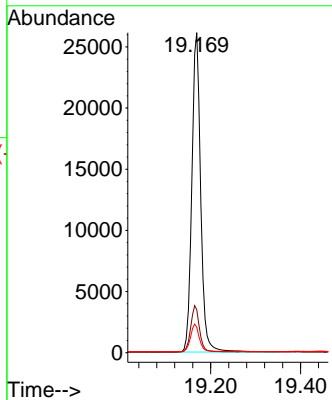
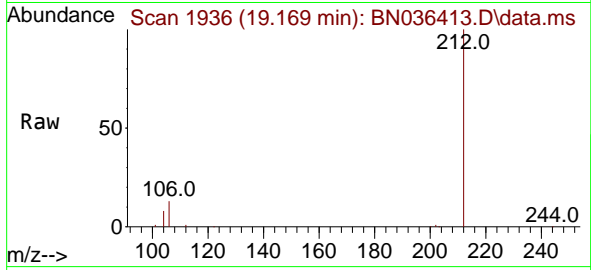


#27
 Fluoranthene-d10
 Concen: 1.707 ng
 RT: 19.169 min Scan# 1936
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

Tgt Ion:212 Resp: 35740

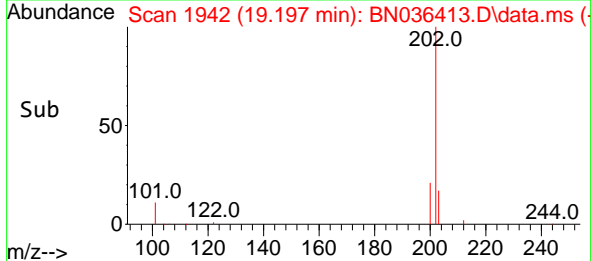
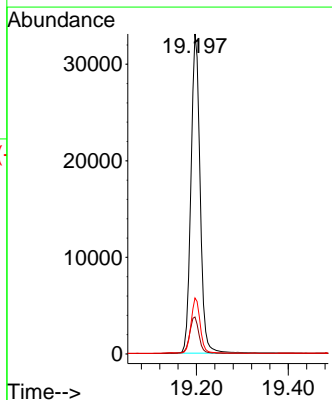
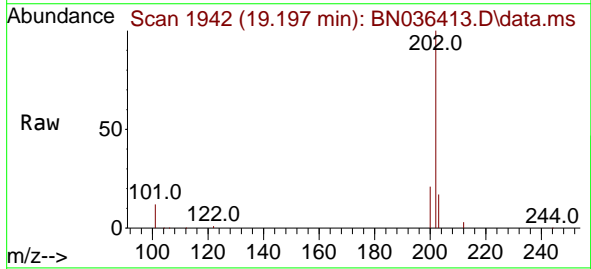
Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.5	17.3
104	8.5	7.1	10.7

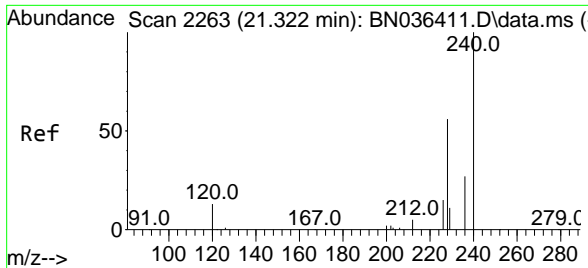


#28
 Fluoranthene
 Concen: 1.617 ng
 RT: 19.197 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:202 Resp: 45708

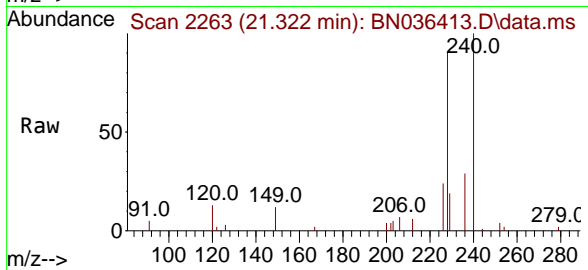
Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.2	13.8
203	17.0	13.4	20.0





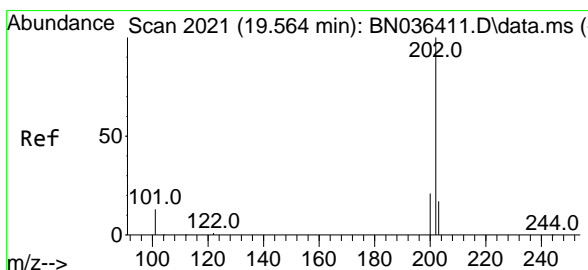
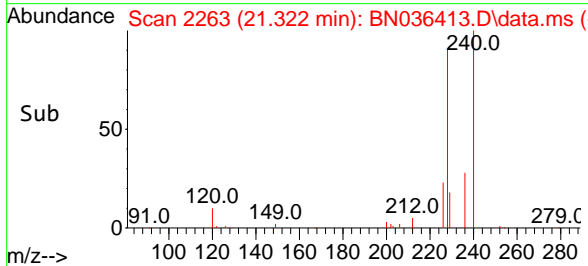
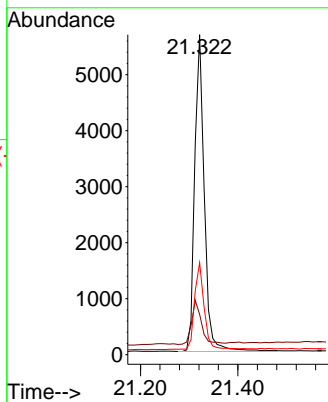
#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6



Tgt Ion:240 Resp: 7773

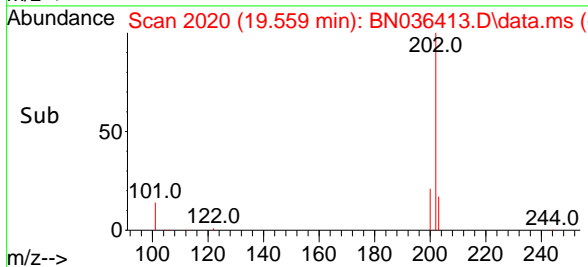
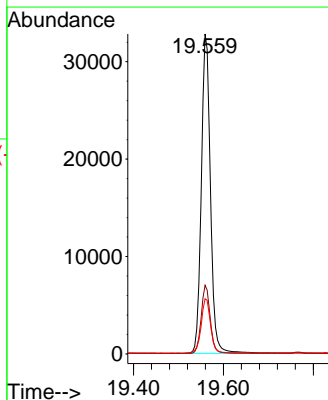
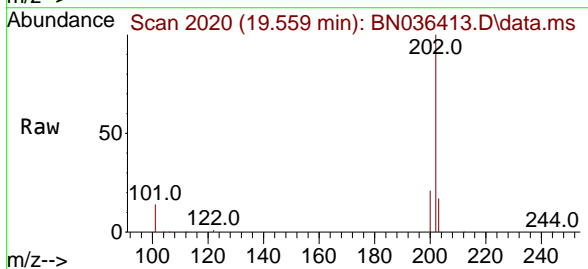
Ion	Ratio	Lower	Upper
240	100		
120	12.6	13.3	19.9#
236	28.8	23.0	34.6

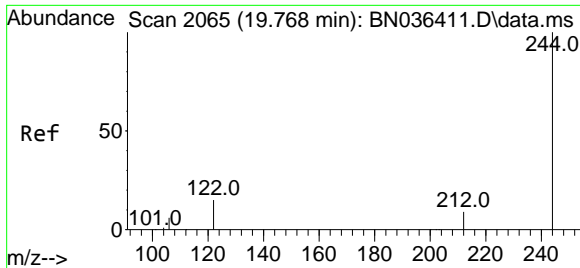


#30
 Pyrene
 Concen: 1.489 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:202 Resp: 46256

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.7	13.9	20.9





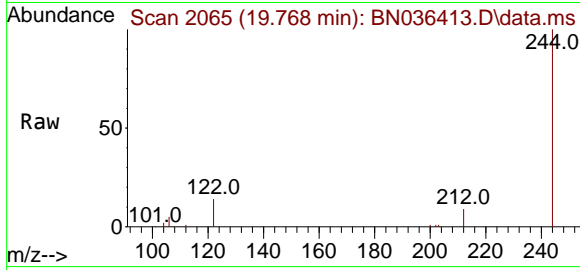
#31
 Terphenyl-d14
 Concen: 1.611 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

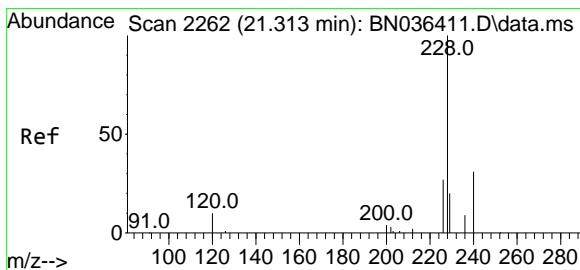
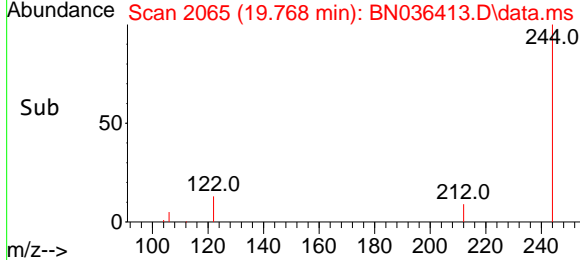
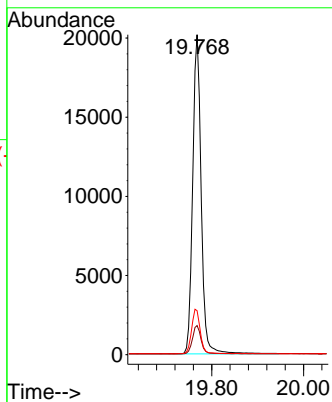
Client Sample Id :

SSTDICC1.6



Tgt Ion: 244 Resp: 25927

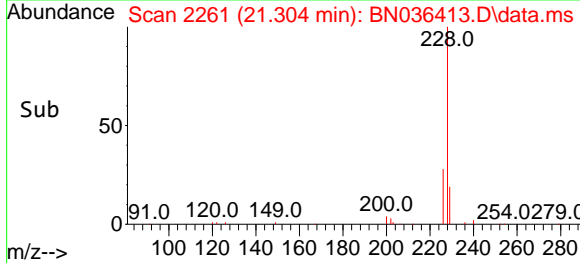
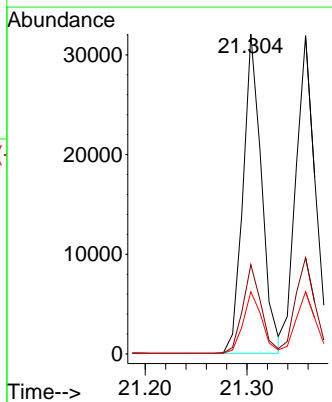
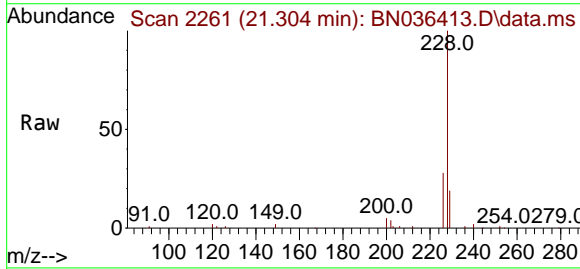
Ion	Ratio	Lower	Upper
244	100		
212	9.1	8.1	12.1
122	13.8	12.8	19.2

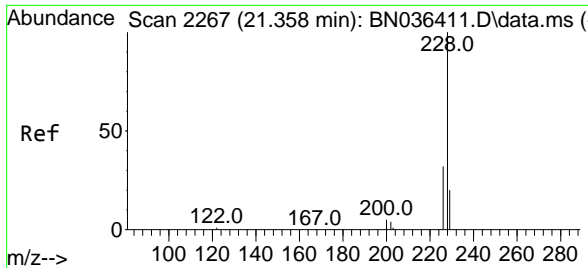


#32
 Benzo(a)anthracene
 Concen: 1.463 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion: 228 Resp: 40416

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	19.5	16.5	24.7



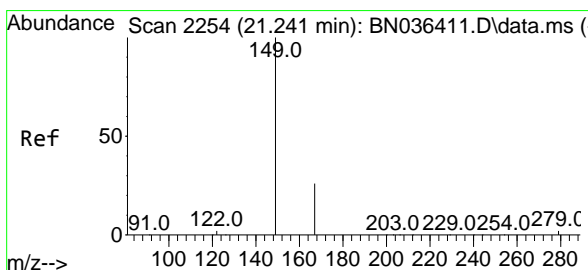
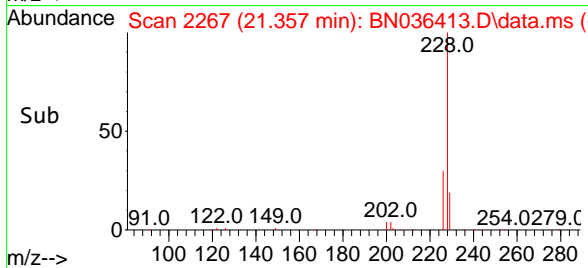
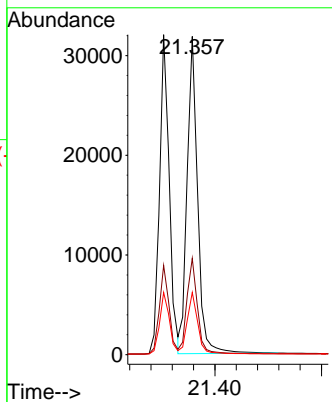
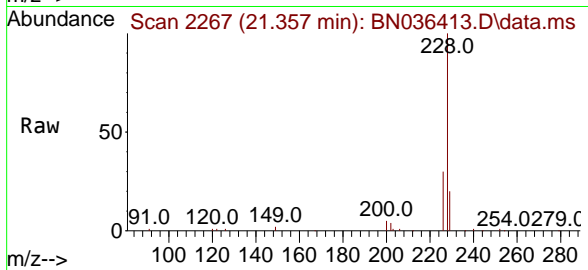


#33
 Chrysene
 Concen: 1.542 ng
 RT: 21.357 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Tgt Ion:228 Resp: 43661

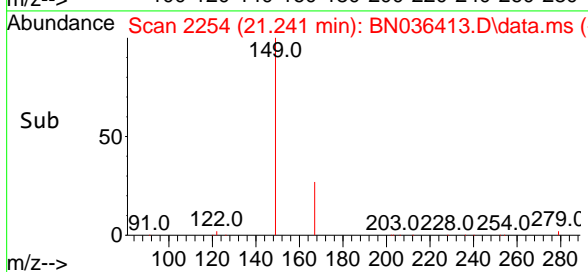
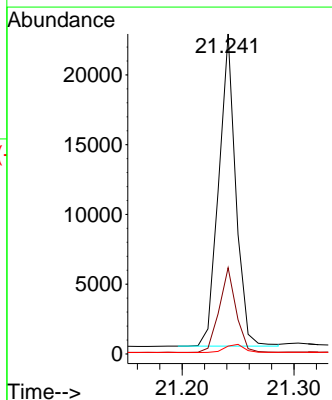
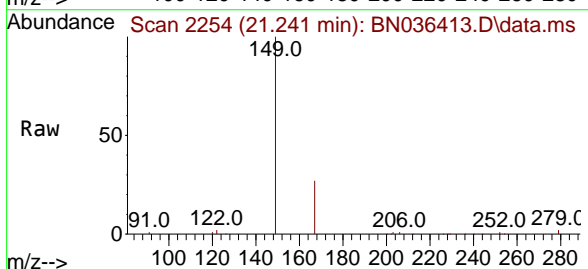
Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.5	38.3
229	19.5	16.4	24.6

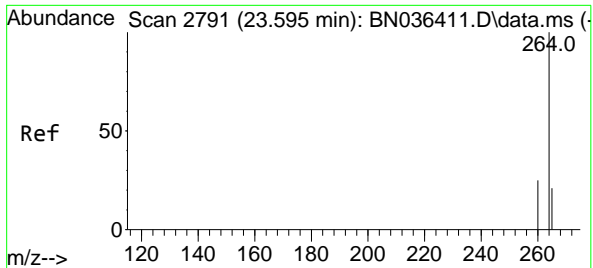


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 1.538 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. -0.000 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:149 Resp: 23672

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.2	31.8
279	3.0	2.7	4.1



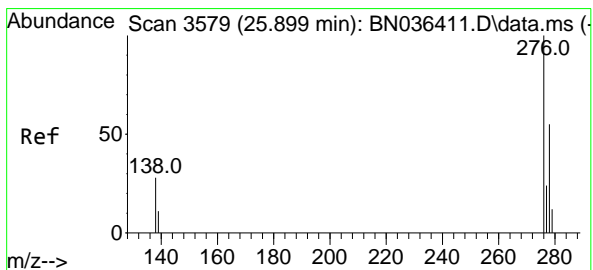
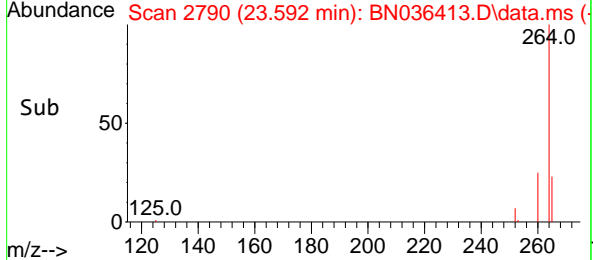
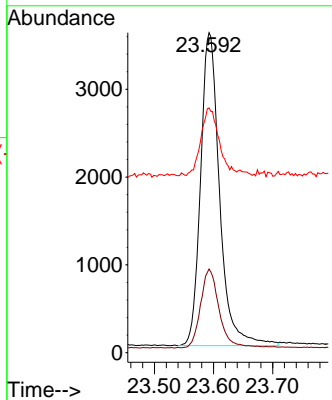
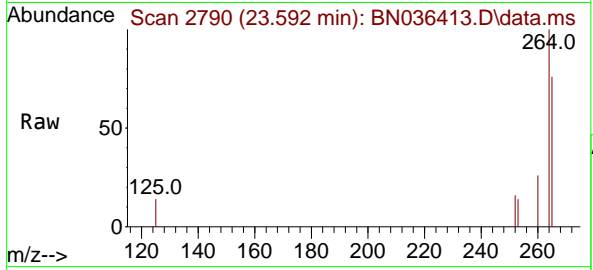


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.592 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

Tgt Ion:264 Resp: 7967

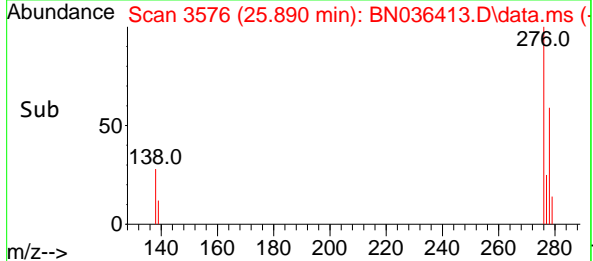
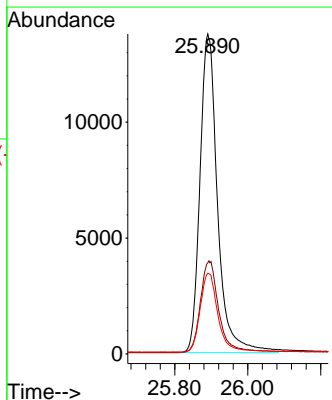
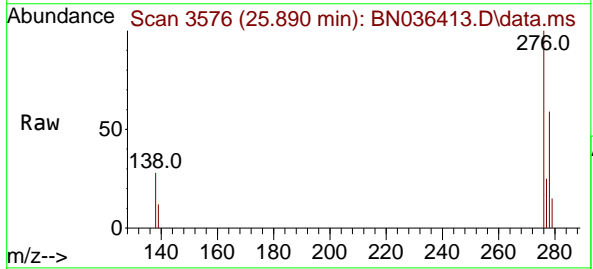
Ion	Ratio	Lower	Upper
264	100		
260	26.1	20.9	31.3
265	76.5	60.7	91.1

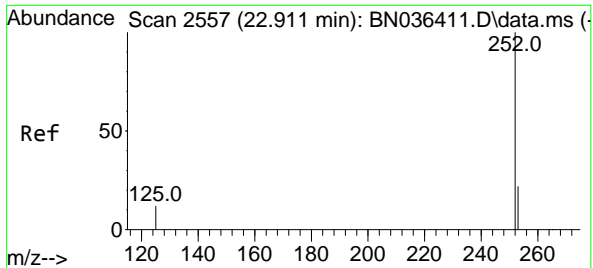


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 1.472 ng
 RT: 25.890 min Scan# 3576
 Delta R.T. -0.009 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:276 Resp: 46083

Ion	Ratio	Lower	Upper
276	100		
138	29.4	22.2	33.2
277	25.3	19.8	29.6



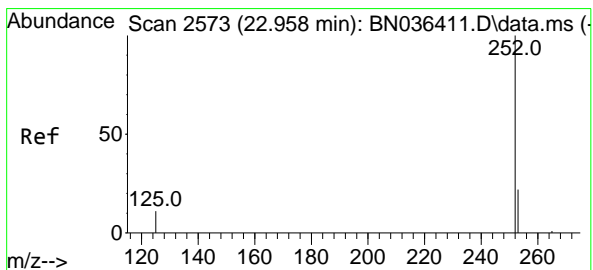
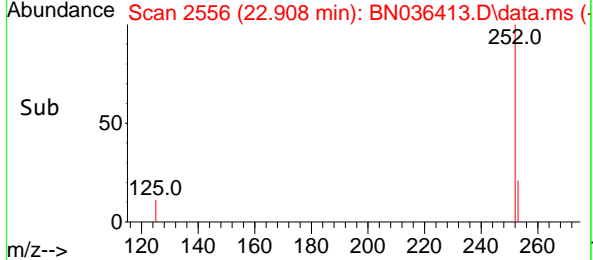
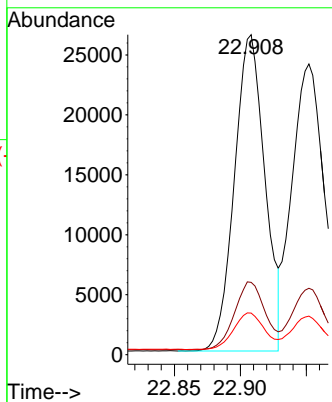
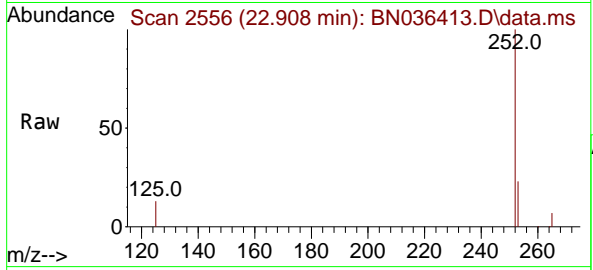


#37
 Benzo(b)fluoranthene
 Concen: 1.502 ng
 RT: 22.908 min Scan# 2556
 Delta R.T. -0.003 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument : BNA_N
 Client Sample Id : SSTDICC1.6

Tgt Ion:252 Resp: 42491

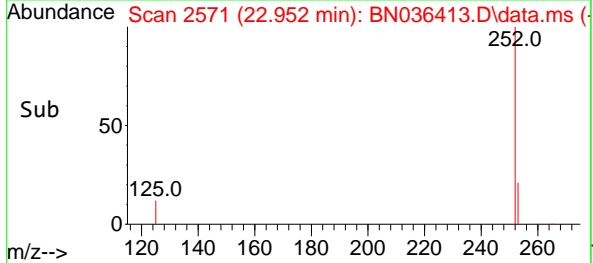
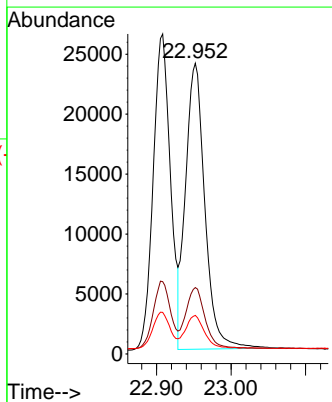
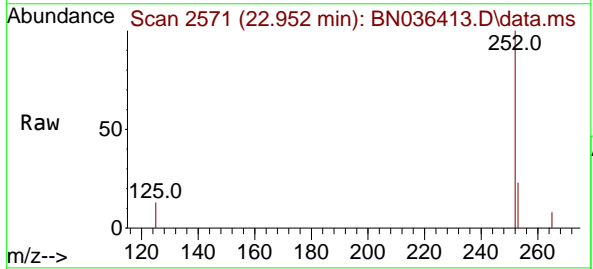
Ion	Ratio	Lower	Upper
252	100		
253	22.6	21.9	32.9
125	13.0	15.0	22.6#

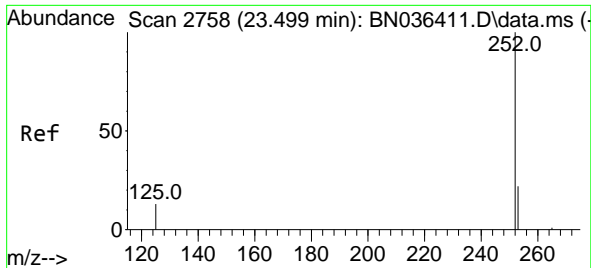


#38
 Benzo(k)fluoranthene
 Concen: 1.489 ng
 RT: 22.952 min Scan# 2571
 Delta R.T. -0.006 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:252 Resp: 42933

Ion	Ratio	Lower	Upper
252	100		
253	22.8	22.2	33.4
125	13.2	15.0	22.4#



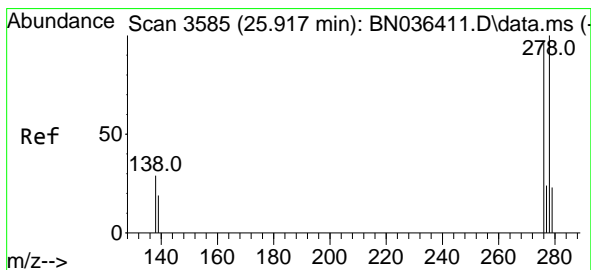
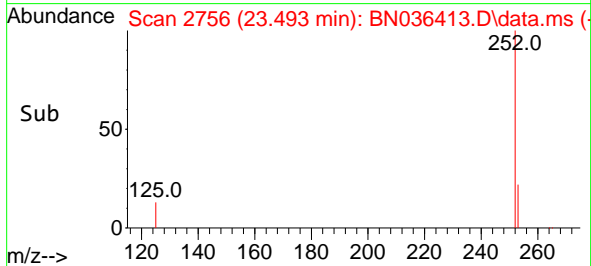
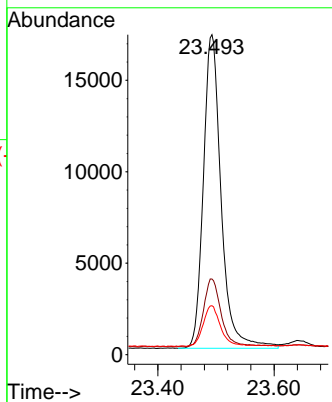
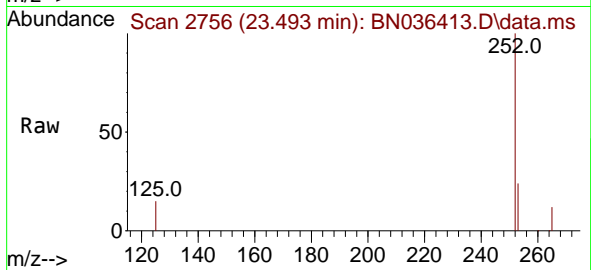


#39
 Benzo(a)pyrene
 Concen: 1.503 ng
 RT: 23.493 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Tgt Ion:252 Resp: 36490

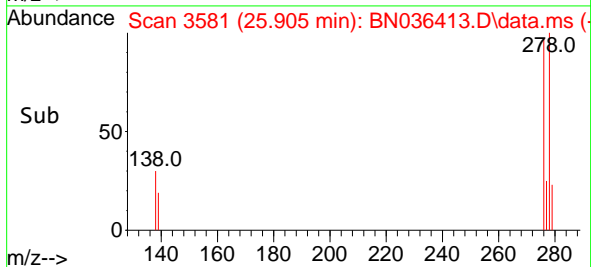
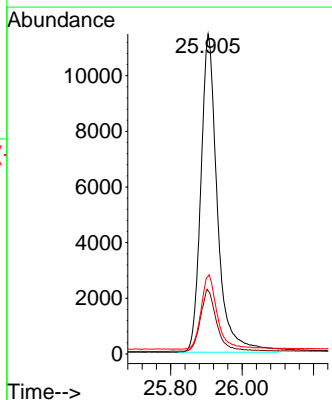
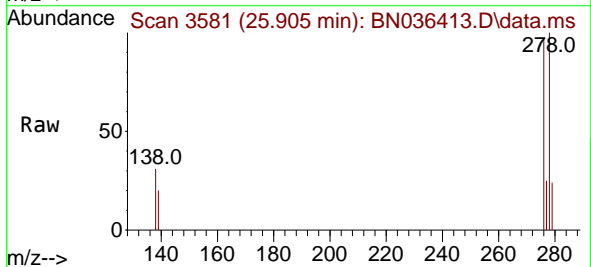
Ion	Ratio	Lower	Upper
252	100		
253	23.7	24.4	36.6#
125	15.3	18.2	27.2#

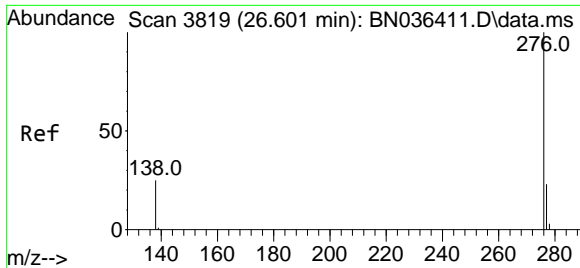


#40
 Dibenzo(a,h)anthracene
 Concen: 1.478 ng
 RT: 25.905 min Scan# 3581
 Delta R.T. -0.012 min
 Lab File: BN036413.D
 Acq: 10 Feb 2025 14:48

Tgt Ion:278 Resp: 36765

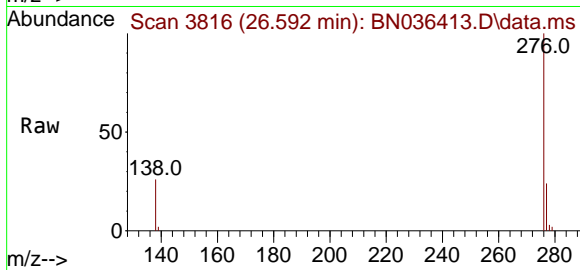
Ion	Ratio	Lower	Upper
278	100		
139	19.7	18.5	27.7
279	24.3	24.8	37.2#





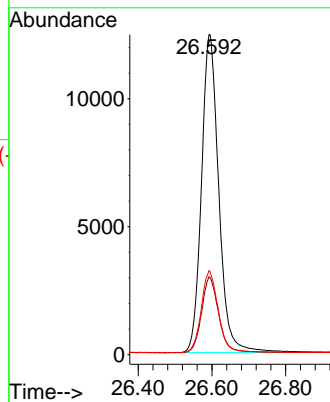
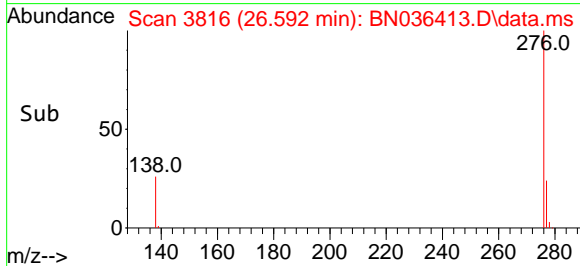
#41
Benzo(g,h,i)perylene
Concen: 1.482 ng
RT: 26.592 min Scan# 3816
Delta R.T. -0.009 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion: 276 Resp: 40441

Ion	Ratio	Lower	Upper
276	100		
277	24.3	20.7	31.1
138	26.3	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036414.D
 Acq On : 10 Feb 2025 15:24
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

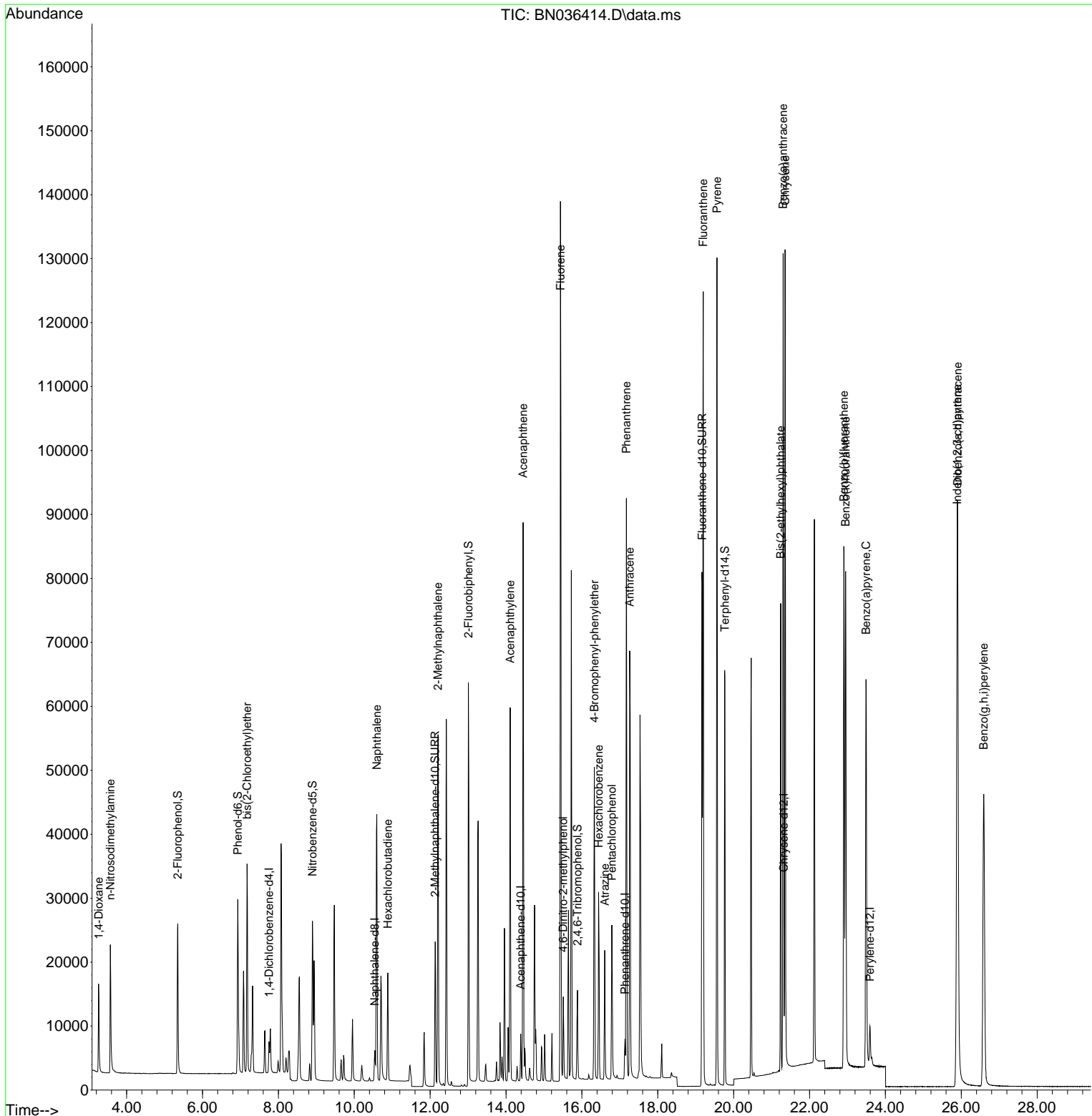
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2264	0.400 ng	0.00	
7) Naphthalene-d8	10.541	136	5888	0.400 ng	# 0.00	
13) Acenaphthene-d10	14.388	164	3870	0.400 ng	0.00	
19) Phenanthrene-d10	17.136	188	8443	0.400 ng	0.00	
29) Chrysene-d12	21.322	240	8450	0.400 ng	# 0.00	
35) Perylene-d12	23.592	264	8327	0.400 ng	0.00	
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	18096	3.140 ng	0.00	
5) Phenol-d6	6.930	99	22949	3.414 ng	0.00	
8) Nitrobenzene-d5	8.897	82	19636	3.579 ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	31489	3.909 ng	-0.01	
14) 2,4,6-Tribromophenol	15.883	330	7004	2.937 ng	0.00	
15) 2-Fluorobiphenyl	13.009	172	53807	3.260 ng	-0.01	
27) Fluoranthene-d10	19.169	212	84968	3.911 ng	0.00	
31) Terphenyl-d14	19.768	244	61695	3.526 ng	0.00	
Target Compounds						
2) 1,4-Dioxane	3.261	88	7842	3.133 ng	97	
3) n-Nitrosodimethylamine	3.572	42	13931	3.098 ng	# 98	
6) bis(2-Chloroethyl)ether	7.176	93	22184	3.968 ng	99	
9) Naphthalene	10.594	128	55857	3.321 ng	97	
10) Hexachlorobutadiene	10.883	225	13261	2.516 ng	# 100	
12) 2-Methylnaphthalene	12.207	142	38458	3.640 ng	98	
16) Acenaphthylene	14.110	152	60797	3.395 ng	100	
17) Acenaphthene	14.452	154	39414	3.214 ng	98	
18) Fluorene	15.435	166	56634	3.589 ng	100	
20) 4,6-Dinitro-2-methylph...	15.510	198	7256	3.841 ng	# 74	
21) 4-Bromophenyl-phenylether	16.329	248	17824	3.081 ng	# 86	
22) Hexachlorobenzene	16.441	284	21378	2.832 ng	97	
23) Atrazine	16.602	200	15456	3.634 ng	92	
24) Pentachlorophenol	16.789	266	11492	3.481 ng	100	
25) Phenanthrene	17.173	178	85950	3.473 ng	99	
26) Anthracene	17.260	178	78802	3.504 ng	99	
28) Fluoranthene	19.197	202	108527	3.700 ng	99	
30) Pyrene	19.559	202	110153	3.262 ng	100	
32) Benzo(a)anthracene	21.304	228	99445	3.312 ng	99	
33) Chrysene	21.358	228	103234	3.354 ng	97	
34) Bis(2-ethylhexyl)phtha...	21.241	149	58234	3.480 ng	99	
36) Indeno(1,2,3-cd)pyrene	25.890	276	108596	3.320 ng	97	
37) Benzo(b)fluoranthene	22.905	252	101833	3.445 ng	# 88	
38) Benzo(k)fluoranthene	22.952	252	102040	3.385 ng	# 88	
39) Benzo(a)pyrene	23.490	252	87191	3.437 ng	# 84	
40) Dibenzo(a,h)anthracene	25.905	278	86887	3.343 ng	# 90	
41) Benzo(g,h,i)perylene	26.592	276	93260	3.269 ng	97	

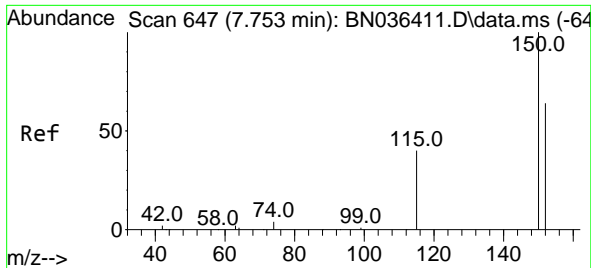
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036414.D
 Acq On : 10 Feb 2025 15:24
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

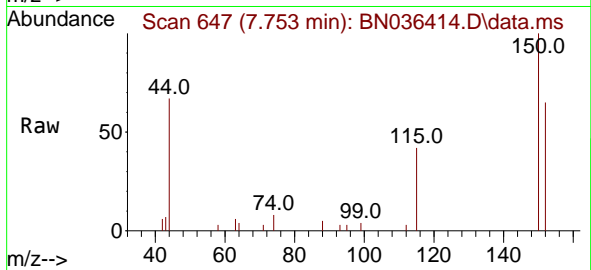
Quant Time: Feb 11 00:37:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration



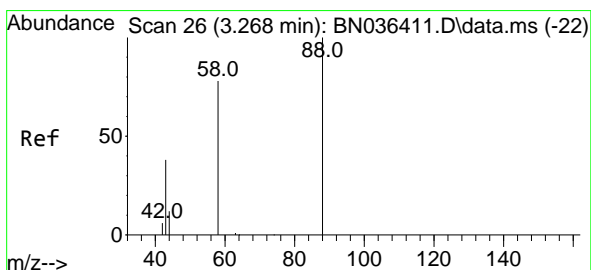
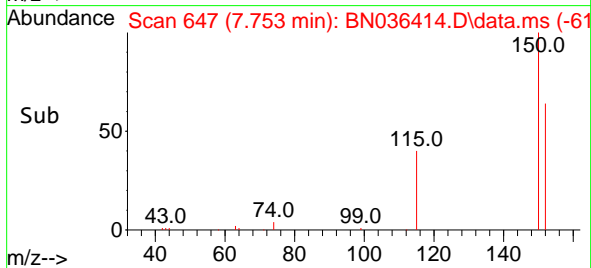
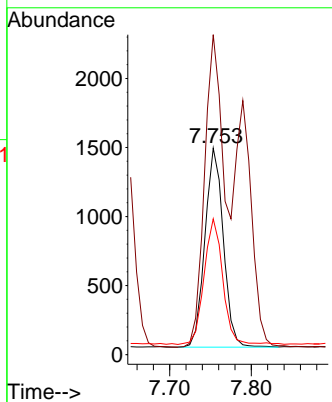


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

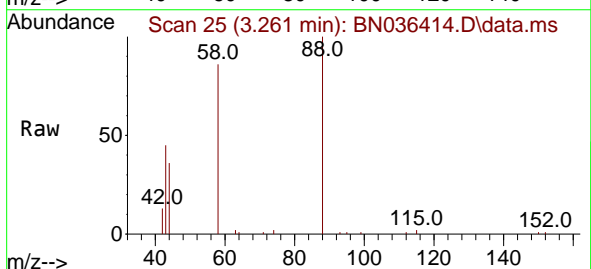
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2



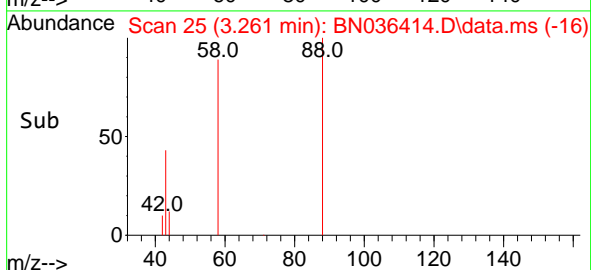
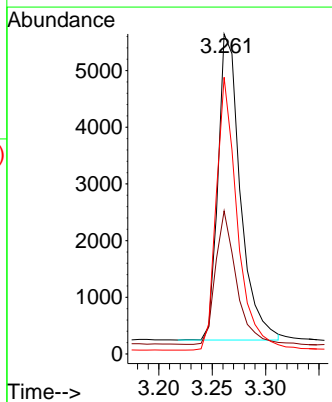
Tgt Ion: 152 Resp: 2264
 Ion Ratio Lower Upper
 152 100
 150 154.9 123.7 185.5
 115 65.7 52.5 78.7

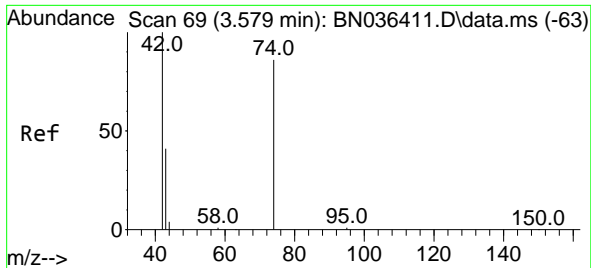


#2
 1,4-Dioxane
 Concen: 3.133 ng
 RT: 3.261 min Scan# 25
 Delta R.T. -0.007 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24



Tgt Ion: 88 Resp: 7842
 Ion Ratio Lower Upper
 88 100
 43 40.6 33.7 50.5
 58 83.7 68.9 103.3



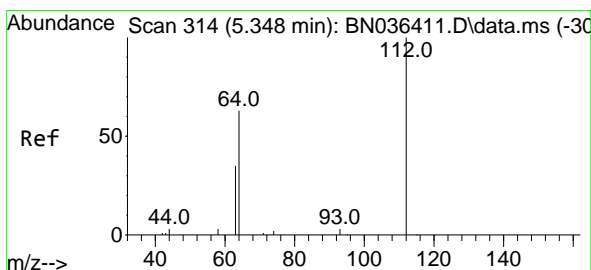
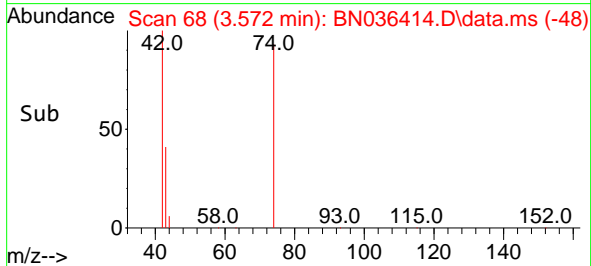
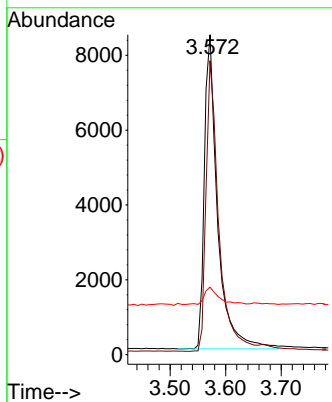
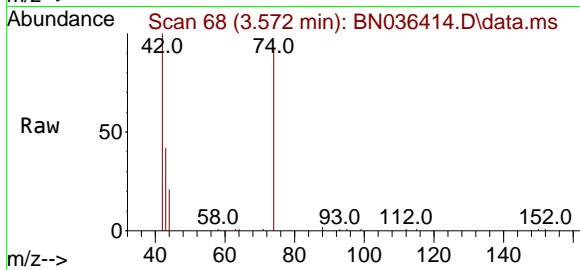


#3
 n-Nitrosodimethylamine
 Concen: 3.098 ng
 RT: 3.572 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion: 42 Resp: 13931

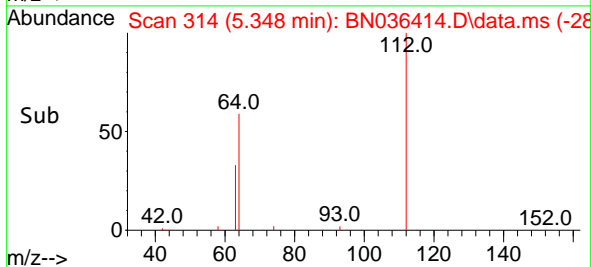
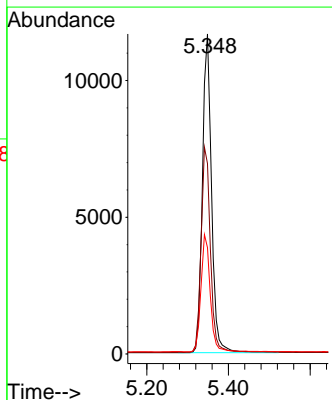
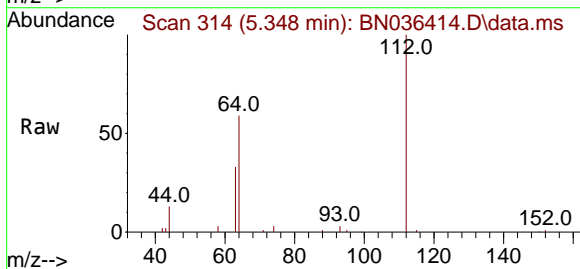
Ion	Ratio	Lower	Upper
42	100		
74	91.3	71.8	107.6
44	6.4	7.8	11.6#

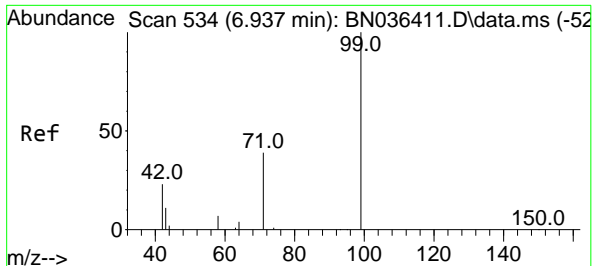


#4
 2-Fluorophenol
 Concen: 3.140 ng
 RT: 5.348 min Scan# 314
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion: 112 Resp: 18096

Ion	Ratio	Lower	Upper
112	100		
64	66.2	53.4	80.0
63	36.9	30.3	45.5

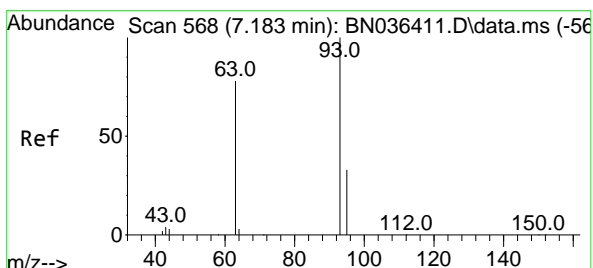
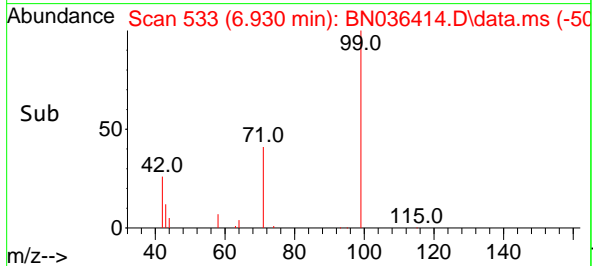
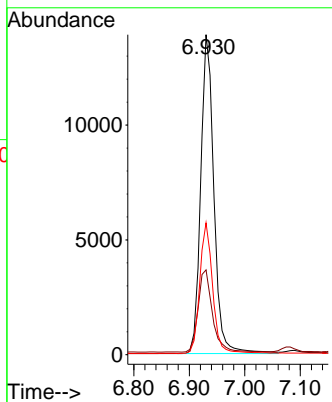
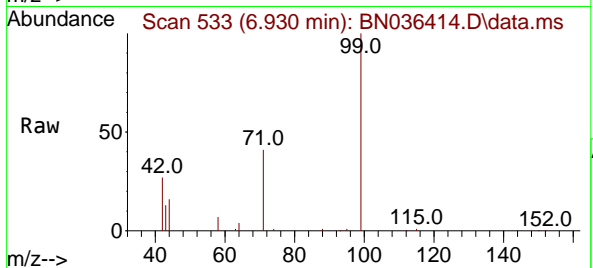




#5
Phenol-d6
Concen: 3.414 ng
RT: 6.930 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

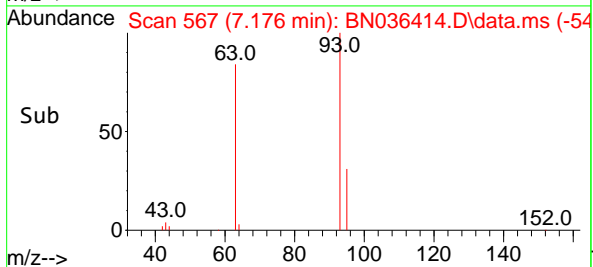
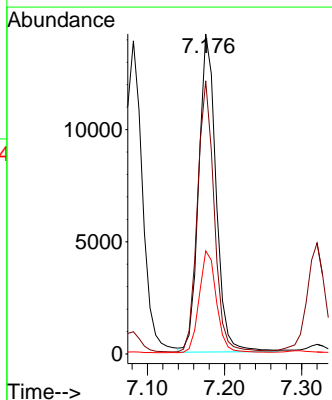
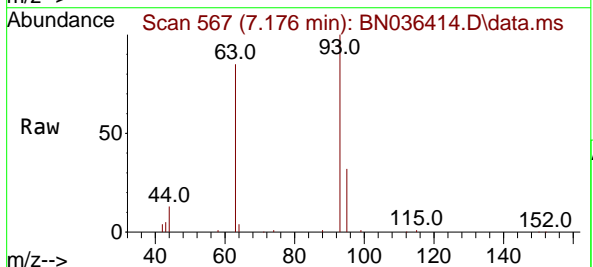
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

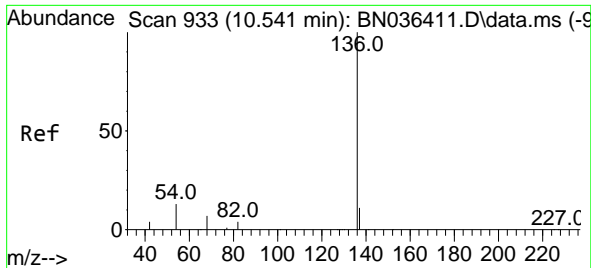
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	22949	100		
42	28.0	21.7	32.5	
71	40.5	32.6	49.0	



#6
bis(2-Chloroethyl)ether
Concen: 3.968 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	22184	100		
63	82.3	66.3	99.5	
95	31.7	26.2	39.4	

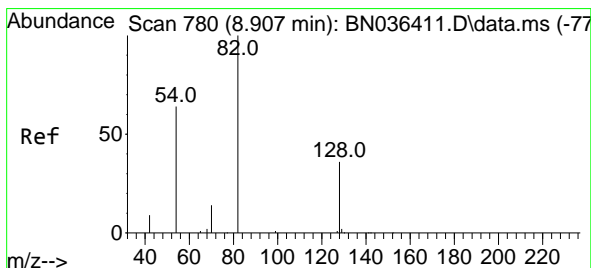
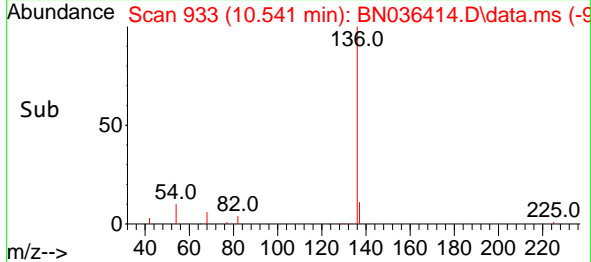
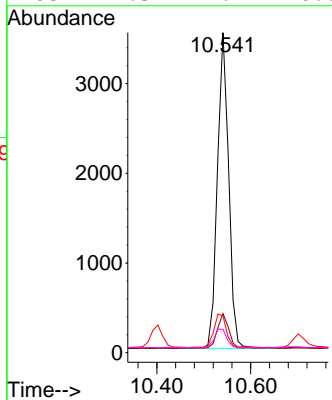
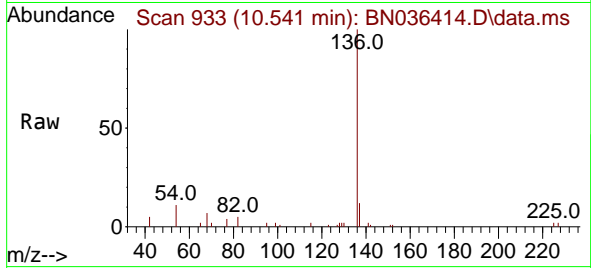




#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

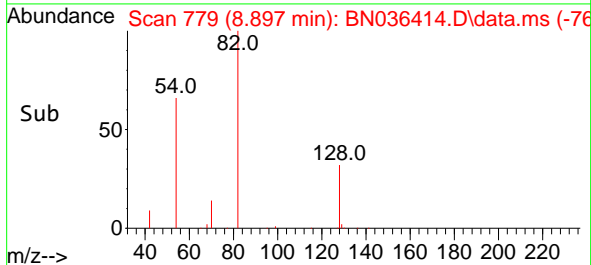
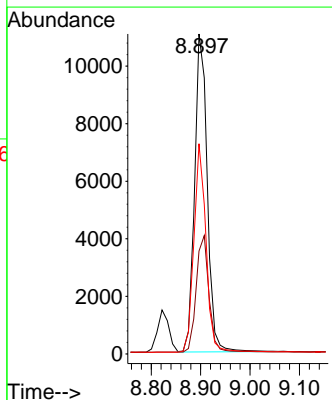
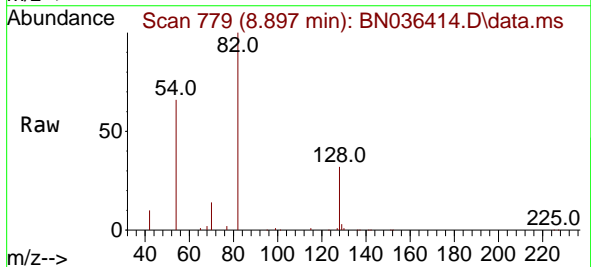
Instrument : BNA_N
 ClientSampleId : SSTDICC3.2

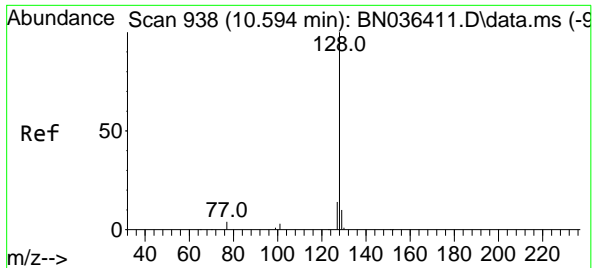
Tgt Ion	Resp	Lower	Upper
136	5888		
137	12.2	10.1	15.1
54	11.4	11.8	17.6#
68	7.3	7.2	10.8



#8
 Nitrobenzene-d5
 Concen: 3.579 ng
 RT: 8.897 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion	Resp	Lower	Upper
82	19636		
128	32.1	31.9	47.9
54	65.7	53.1	79.7

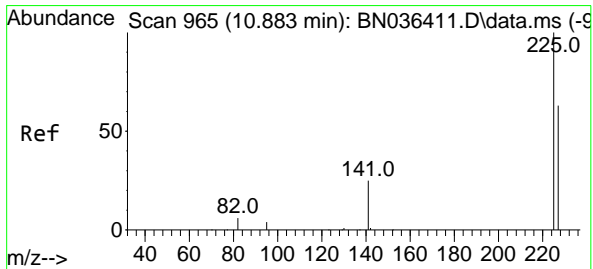
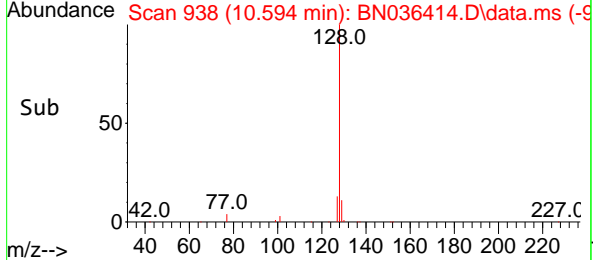
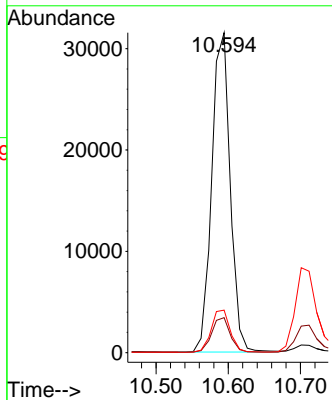
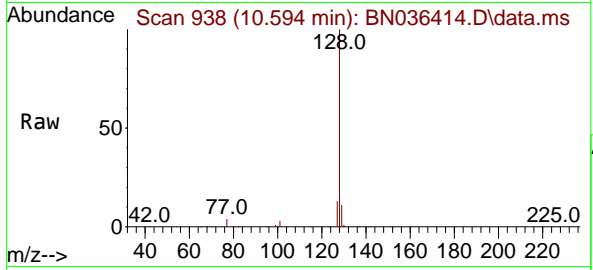




#9
Naphthalene
 Concen: 3.321 ng
 RT: 10.594 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

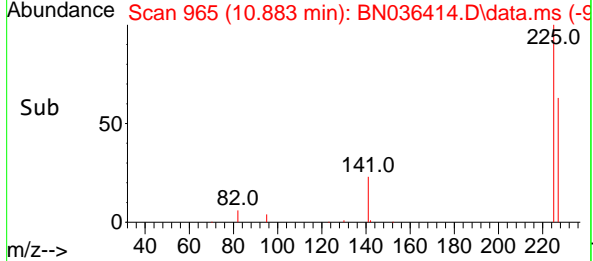
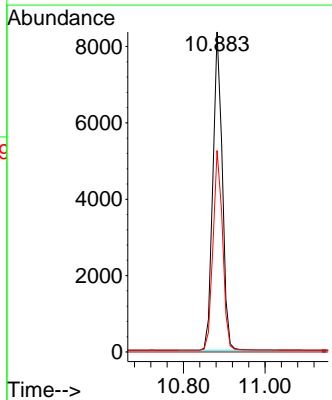
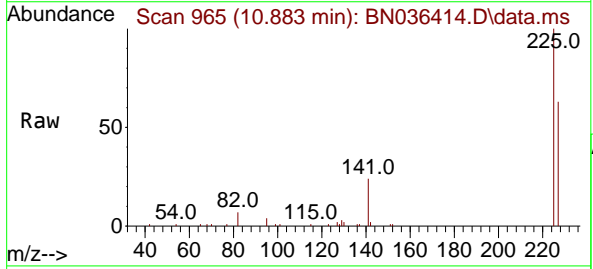
Instrument :
 BNA_N
ClientSampleId :
 SSTDICC3.2

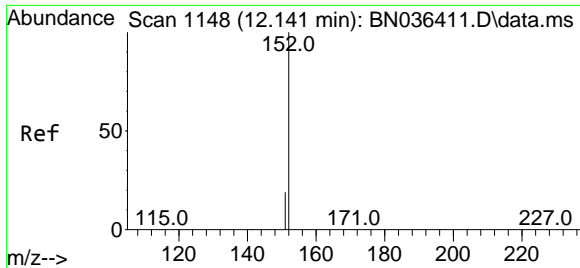
Tgt Ion	Resp	Lower	Upper
128	100		
129	11.0	9.6	14.4
127	13.3	12.0	18.0



#10
Hexachlorobutadiene
 Concen: 2.516 ng
 RT: 10.883 min Scan# 965
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion	Resp	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.9	76.3

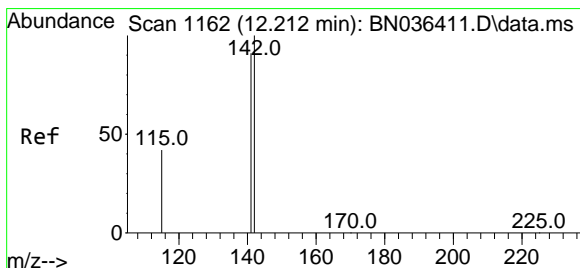
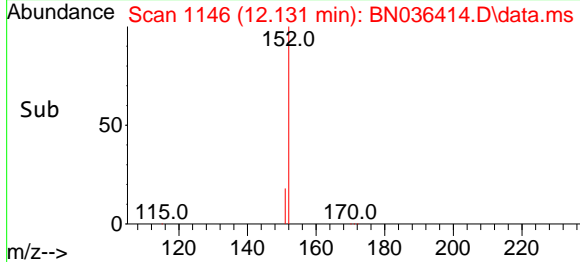
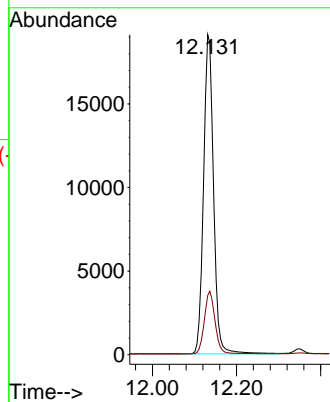
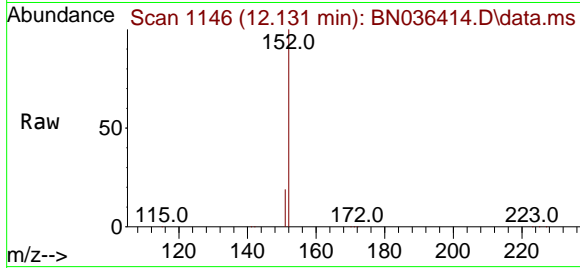




#11
 2-Methylnaphthalene-d10
 Concen: 3.909 ng
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

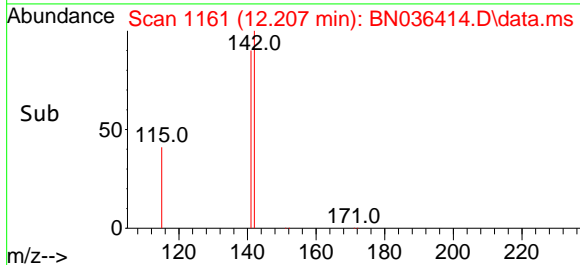
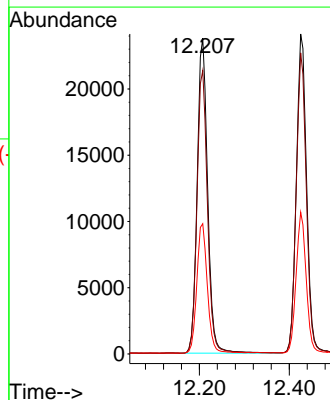
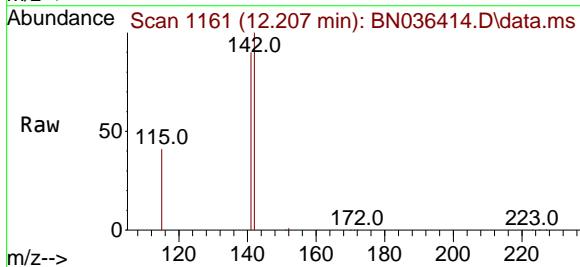
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

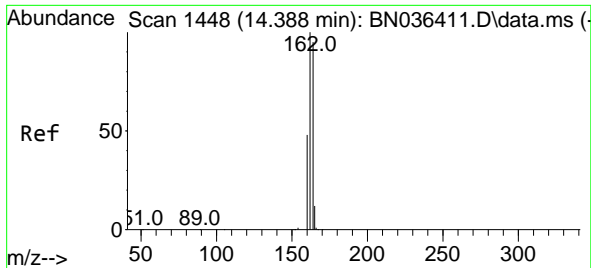
Tgt Ion:152 Resp: 31489
 Ion Ratio Lower Upper
 152 100
 151 21.0 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 3.640 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion:142 Resp: 38458
 Ion Ratio Lower Upper
 142 100
 141 89.8 72.8 109.2
 115 41.3 35.5 53.3



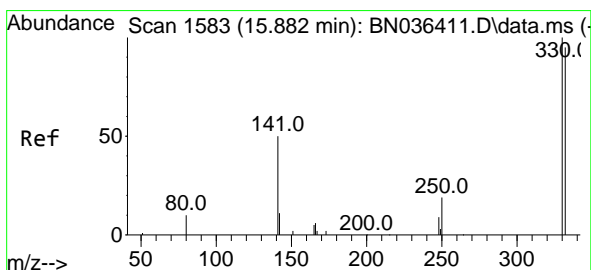
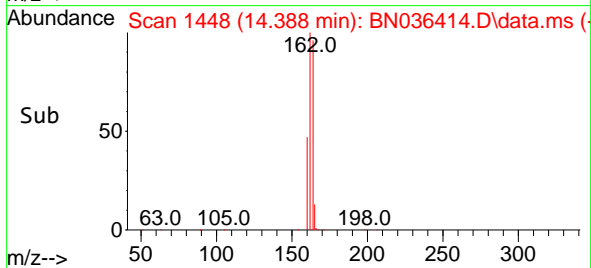
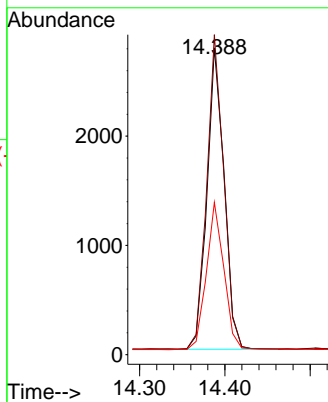
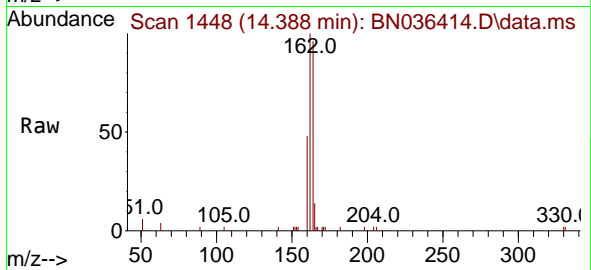


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.388 min Scan# 1448
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument : BNA_N
 ClientSampleId : SSTDICC3.2

Tgt Ion:164 Resp: 3870

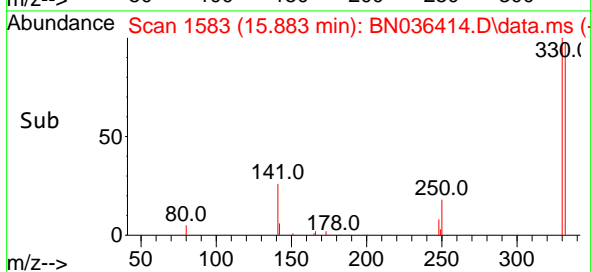
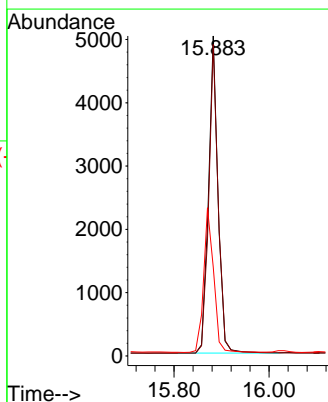
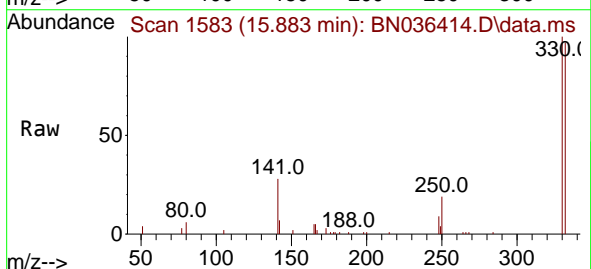
Ion	Ratio	Lower	Upper
164	100		
162	104.3	84.1	126.1
160	49.6	41.4	62.0

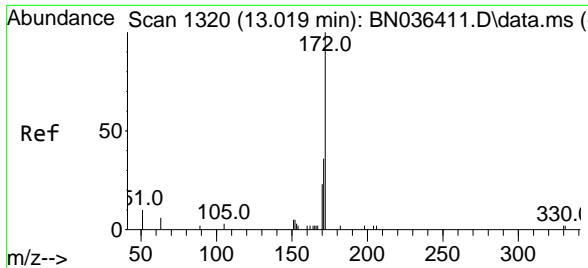


#14
 2,4,6-Tribromophenol
 Concen: 2.937 ng
 RT: 15.883 min Scan# 1583
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion:330 Resp: 7004

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.6	114.8
141	48.2	37.8	56.8



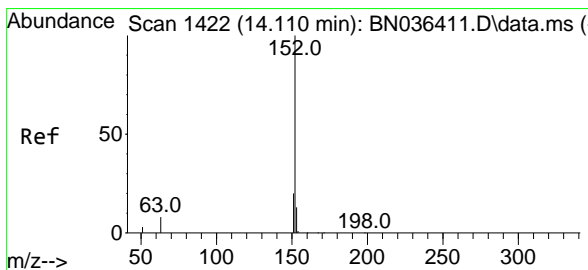
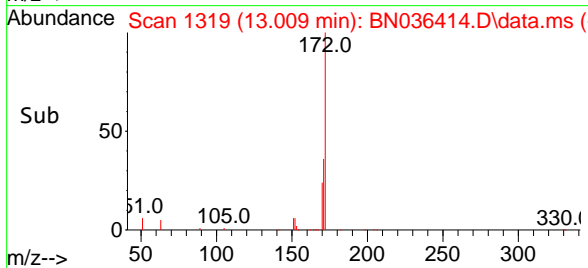
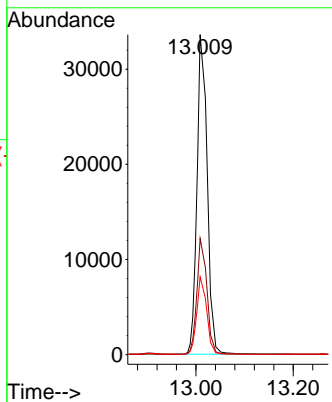
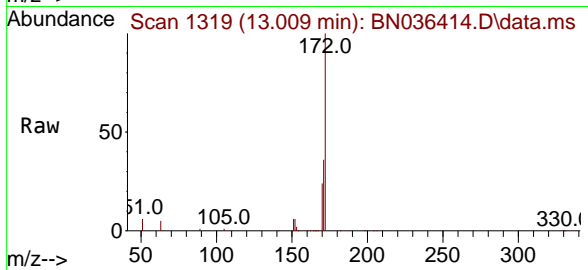


#15
2-Fluorobiphenyl
Concen: 3.260 ng
RT: 13.009 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument : BNA_N
Client Sample Id : SSTDICC3.2

Tgt Ion:172 Resp: 53807

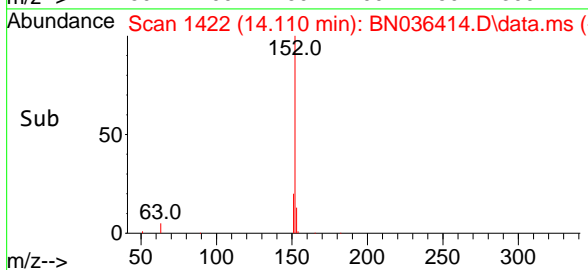
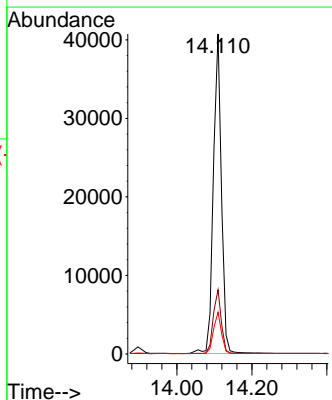
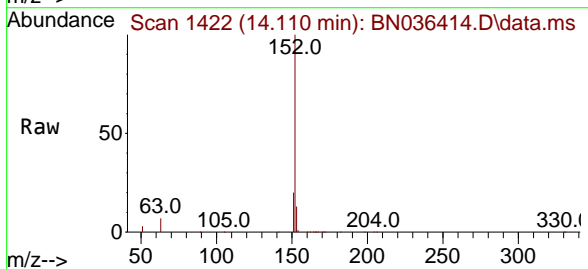
Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.6	44.4
170	24.4	19.8	29.6

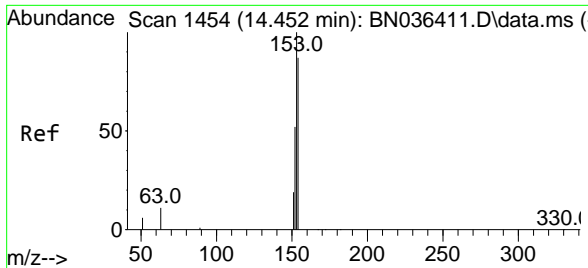


#16
Acenaphthylene
Concen: 3.395 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:152 Resp: 60797

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.9	10.2	15.2

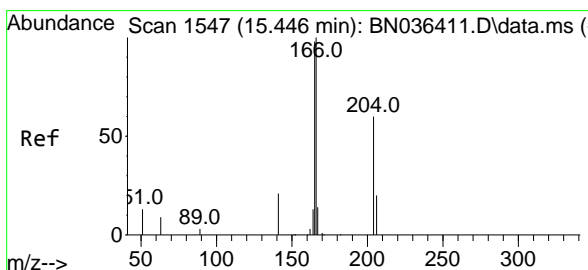
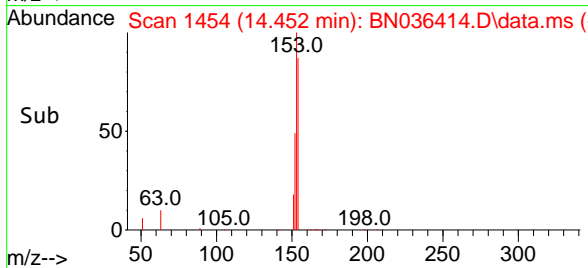
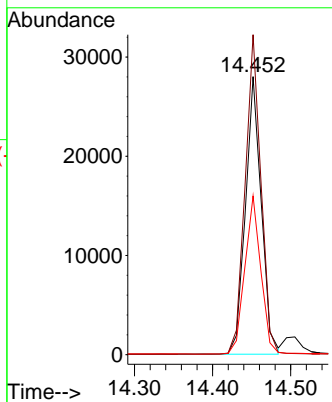
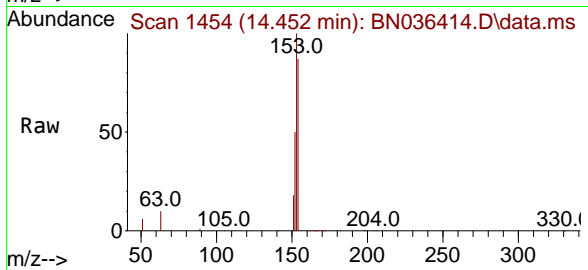




#17
 Acenaphthene
 Concen: 3.214 ng
 RT: 14.452 min Scan# 14
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

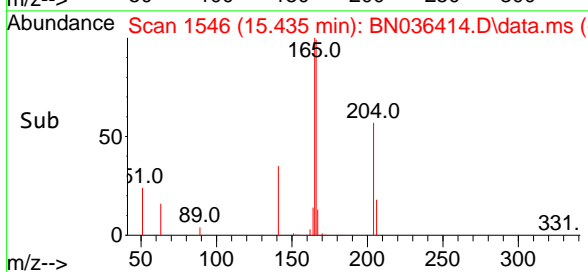
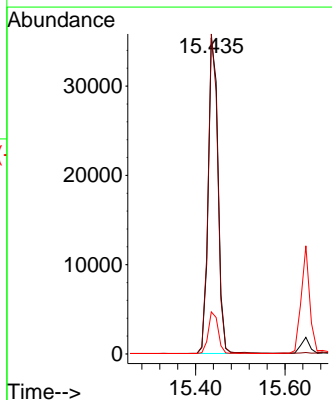
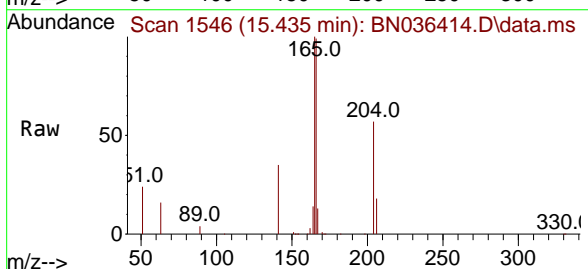
Instrument : BNA_N
 Client Sample Id : SSTDICC3.2

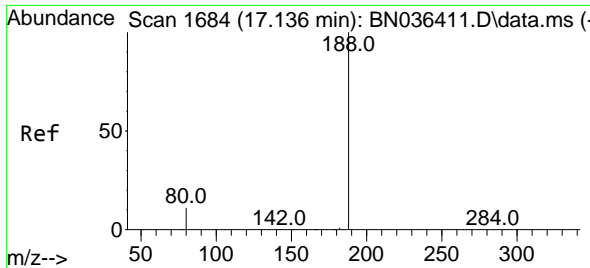
Tgt Ion	Resp	Lower	Upper
154	39414		
153	115.0	93.3	139.9
152	57.9	48.8	73.2



#18
 Fluorene
 Concen: 3.589 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion	Resp	Lower	Upper
166	56634		
165	99.4	79.5	119.3
167	12.6	10.4	15.6

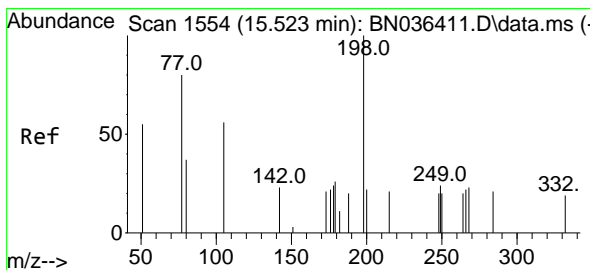
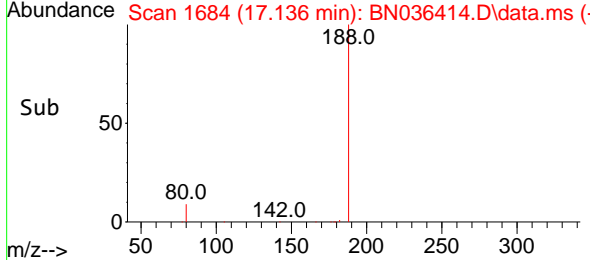
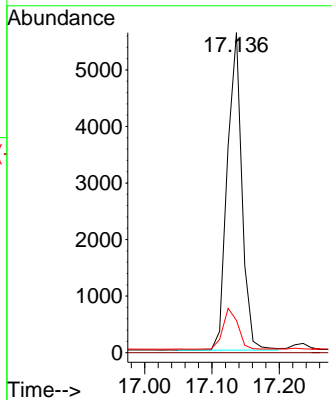
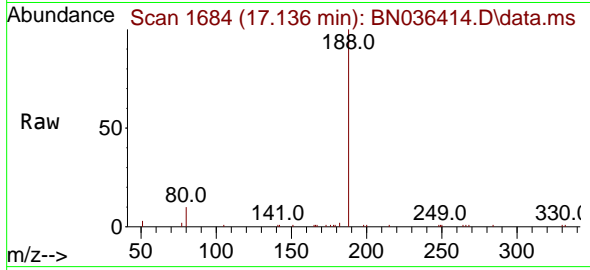




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 10
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

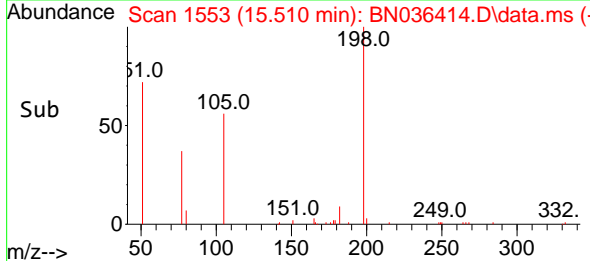
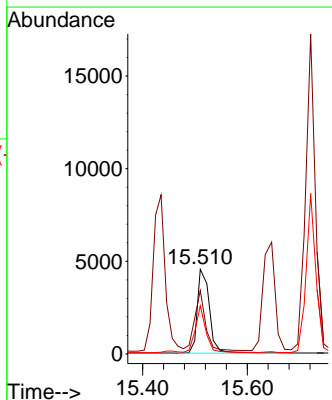
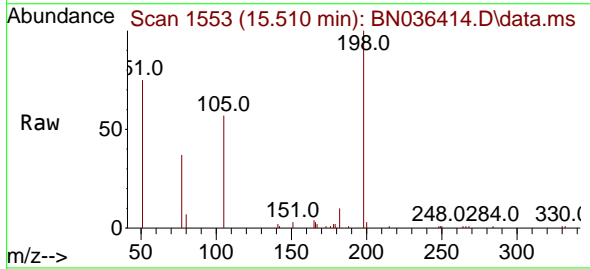
Instrument : BNA_N
 Client Sample Id : SSTDICC3.2

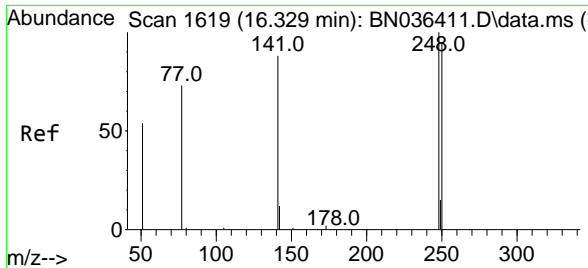
Tgt Ion	Resp	Lower	Upper
188	8443	100	100
94	0.0	0.0	0.0
80	10.1	9.8	14.6



#20
 4,6-Dinitro-2-methylphenol
 Concen: 3.841 ng
 RT: 15.510 min Scan# 1553
 Delta R.T. -0.012 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion	Resp	Lower	Upper
198	7256	100	100
51	74.8	86.6	129.8#
105	57.0	57.5	86.3#



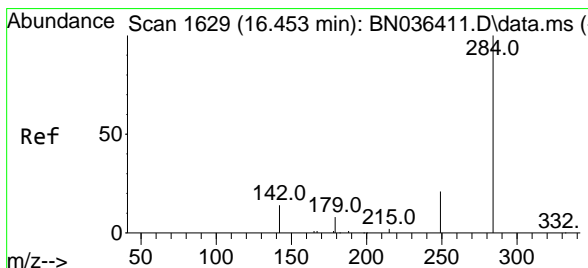
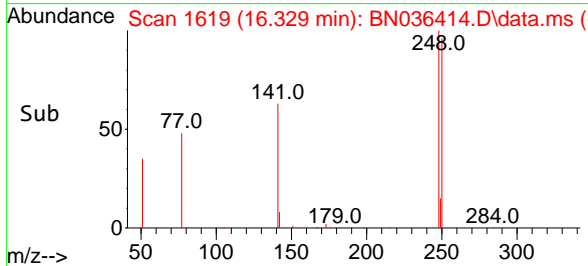
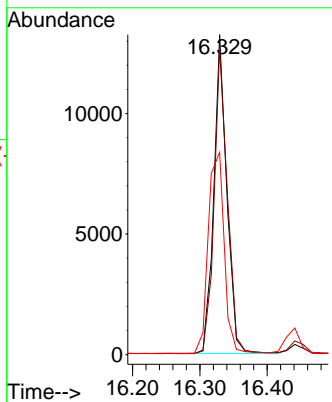
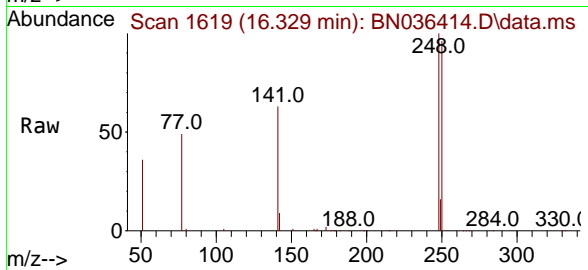


#21
 4-Bromophenyl-phenylether
 Concen: 3.081 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument : BNA_N
 ClientSampleId : SSTDICC3.2

Tgt Ion:248 Resp: 17824

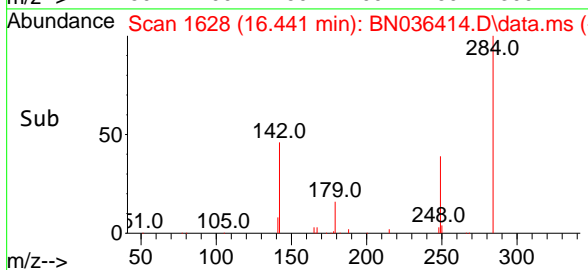
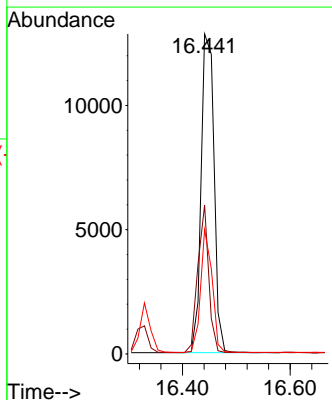
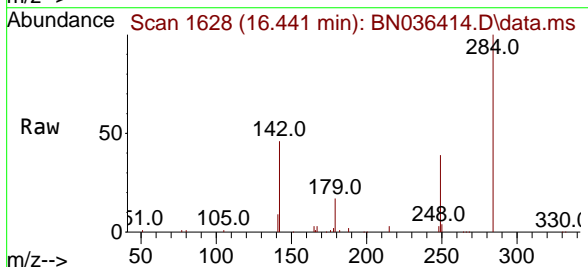
Ion	Ratio	Lower	Upper
248	100		
250	95.9	76.1	114.1
141	63.3	71.7	107.5#

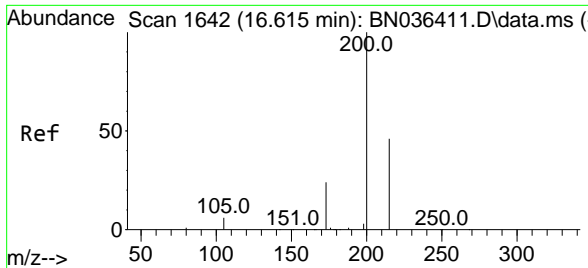


#22
 Hexachlorobenzene
 Concen: 2.832 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.012 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion:284 Resp: 21378

Ion	Ratio	Lower	Upper
284	100		
142	39.4	33.4	50.0
249	34.3	28.6	43.0

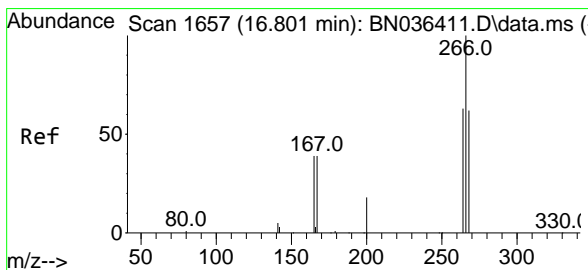
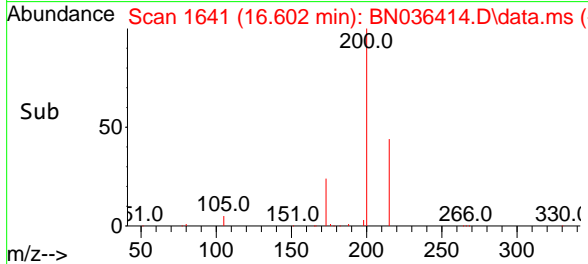
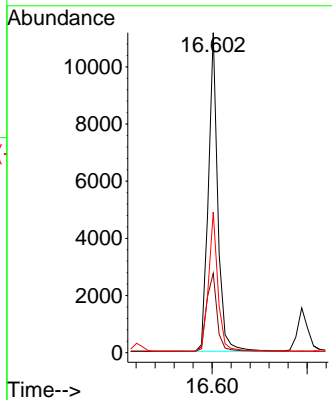
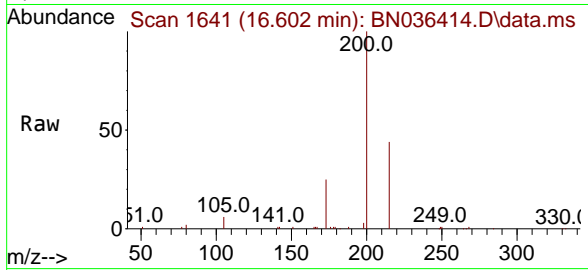




#23
Atrazine
 Concen: 3.634 ng
 RT: 16.602 min Scan# 1641
 Delta R.T. -0.012 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

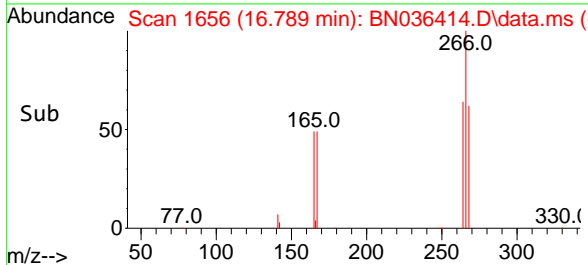
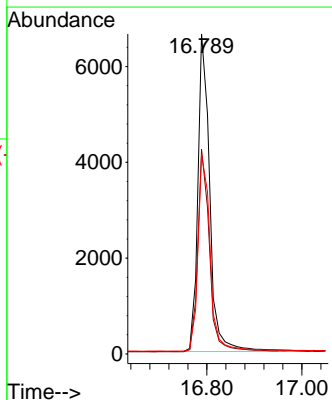
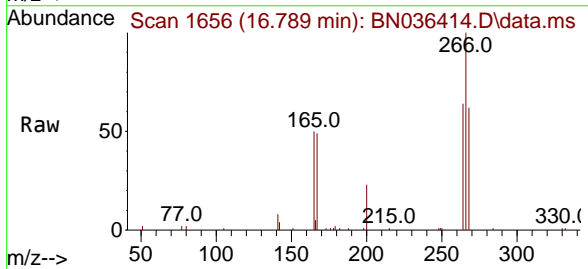
Instrument : BNA_N
 Client Sample Id : BN036414.D
 SSTDICC3.2

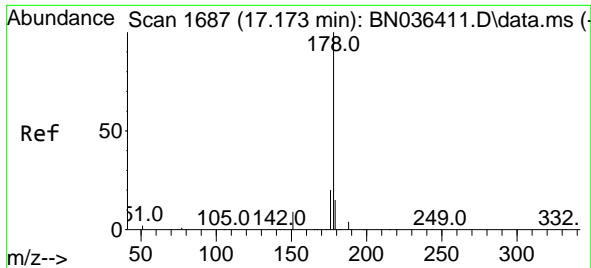
Tgt Ion	Resp	Lower	Upper
200	15456	100	100
173	24.8	23.2	34.8
215	44.0	40.0	60.0



#24
Pentachlorophenol
 Concen: 3.481 ng
 RT: 16.789 min Scan# 1656
 Delta R.T. -0.012 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion	Resp	Lower	Upper
266	11492	100	100
264	63.3	50.6	76.0
268	64.3	51.9	77.9

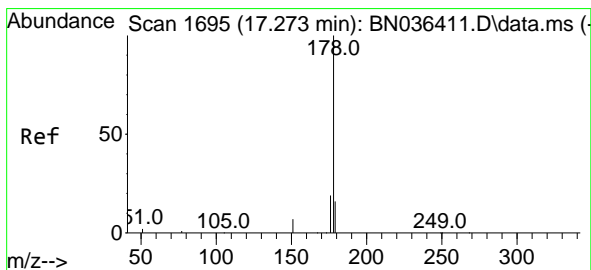
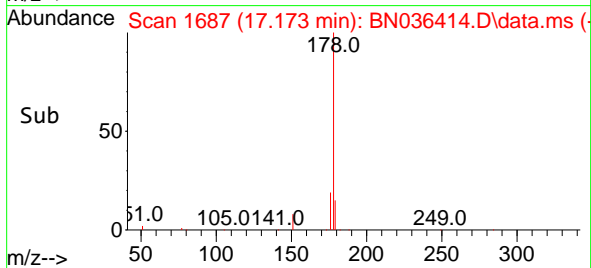
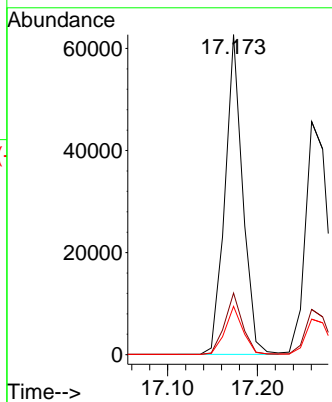
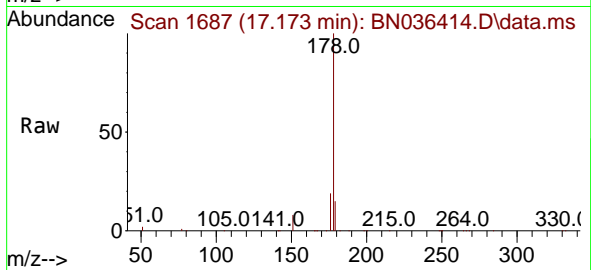




#25
 Phenanthrene
 Concen: 3.473 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

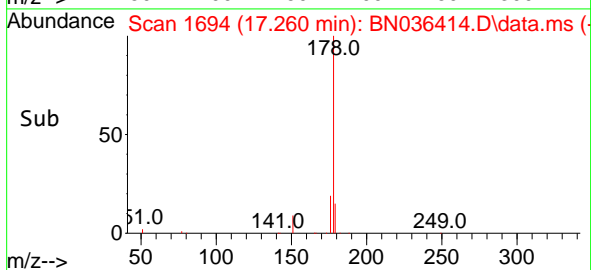
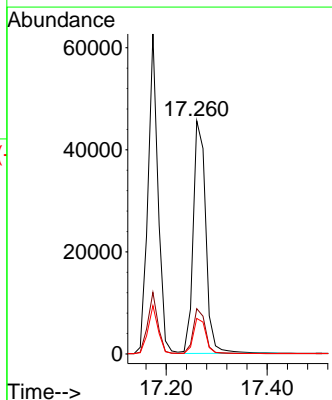
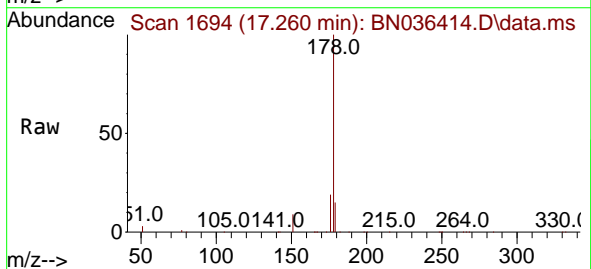
Instrument : BNA_N
 Client Sample Id : SSTDICC3.2

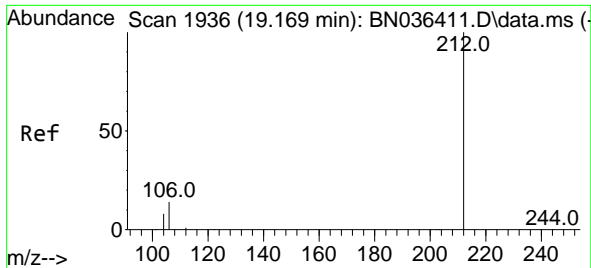
Tgt Ion	Resp	Lower	Upper
178	85950	100	100
176	19.3	15.7	23.5
179	15.1	12.4	18.6



#26
 Anthracene
 Concen: 3.504 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.012 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion	Resp	Lower	Upper
178	78802	100	100
176	18.9	14.9	22.3
179	15.2	12.4	18.6



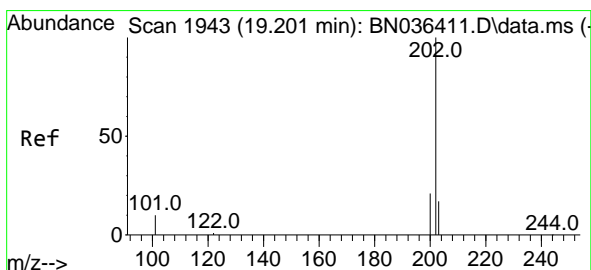
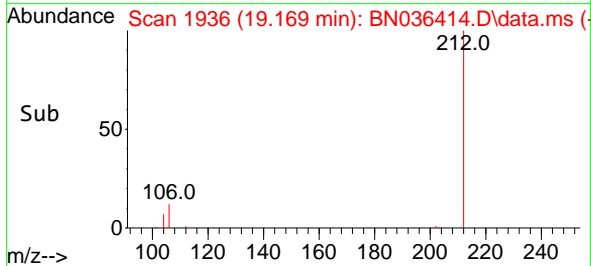
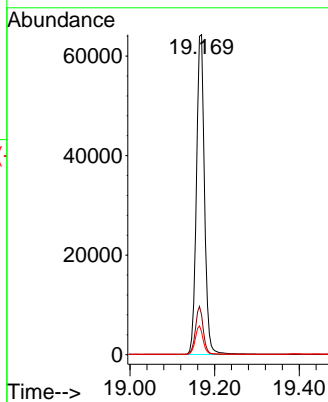
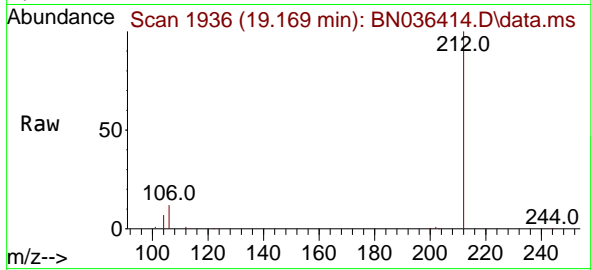


#27
 Fluoranthene-d10
 Concen: 3.911 ng
 RT: 19.169 min Scan# 1936
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument : BNA_N
 Client Sample Id : SSTDICC3.2

Tgt Ion: 212 Resp: 84968

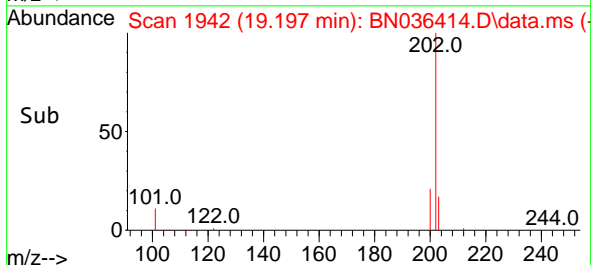
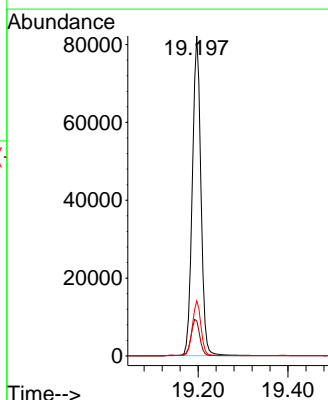
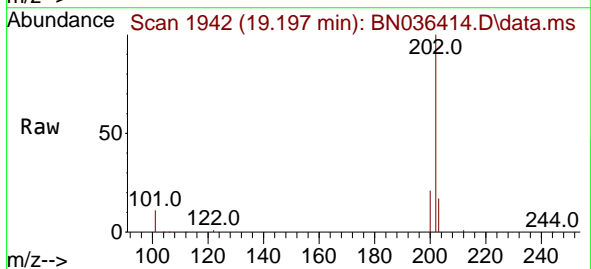
Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.5	17.3
104	8.6	7.1	10.7

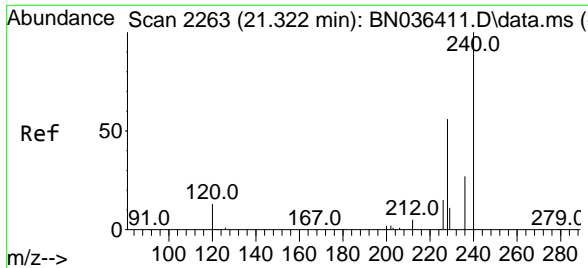


#28
 Fluoranthene
 Concen: 3.700 ng
 RT: 19.197 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion: 202 Resp: 108527

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.2	13.8
203	17.1	13.4	20.0



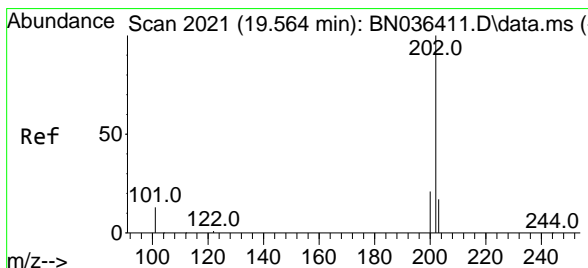
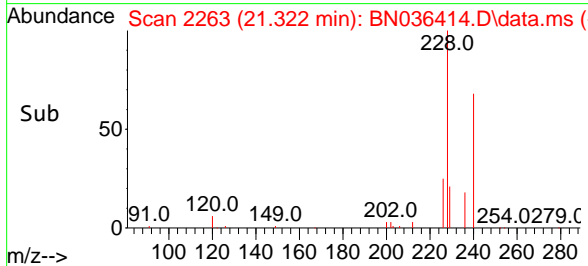
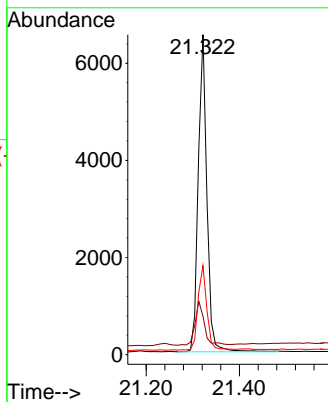
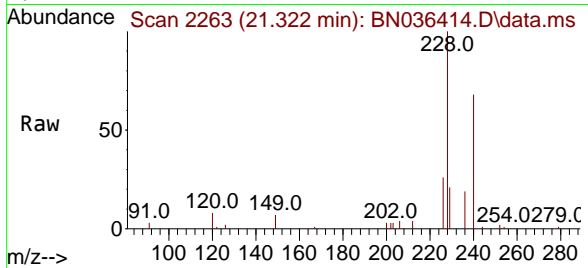


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion:240 Resp: 8450

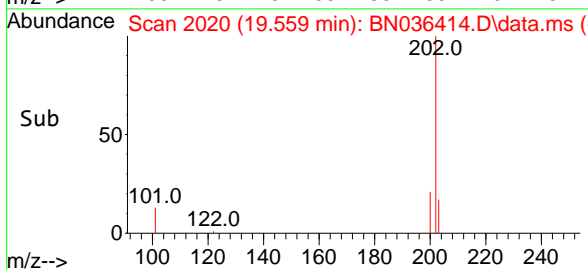
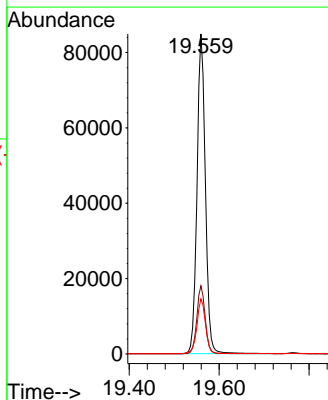
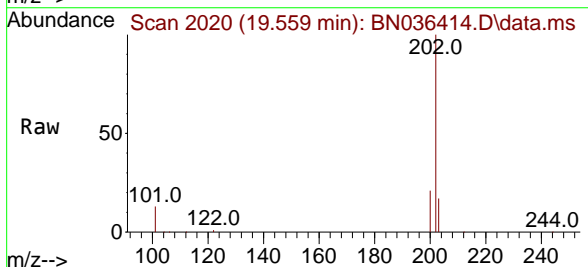
Ion	Ratio	Lower	Upper
240	100		
120	12.0	13.3	19.9#
236	27.8	23.0	34.6

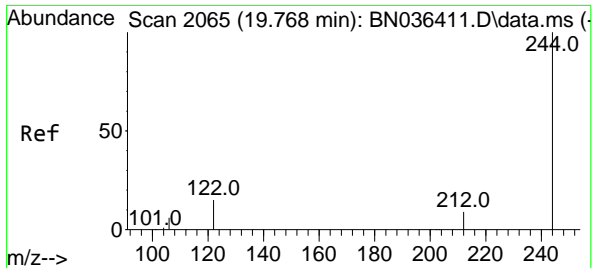


#30
 Pyrene
 Concen: 3.262 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion:202 Resp: 110153

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.7	13.9	20.9

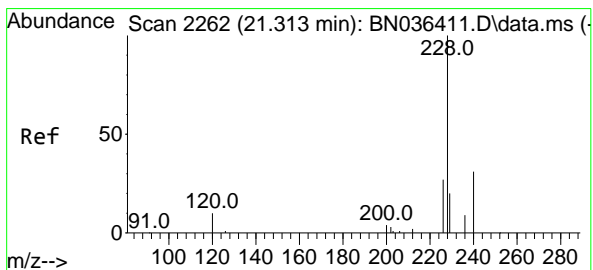
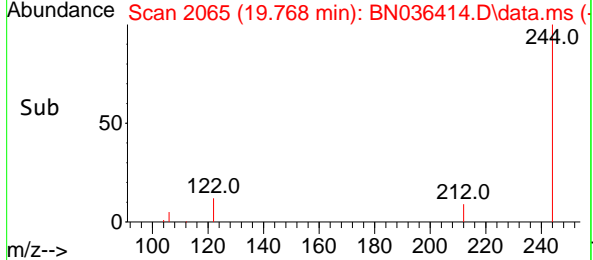
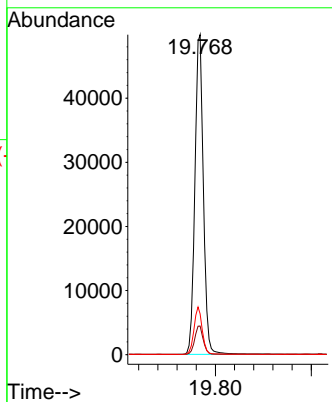
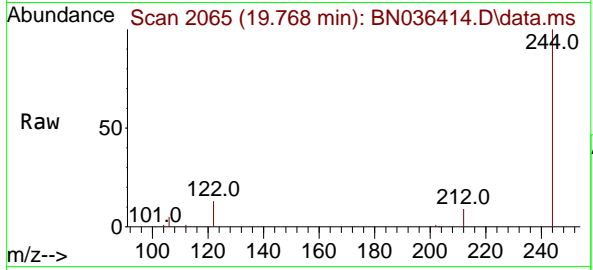




#31
 Terphenyl-d14
 Concen: 3.526 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

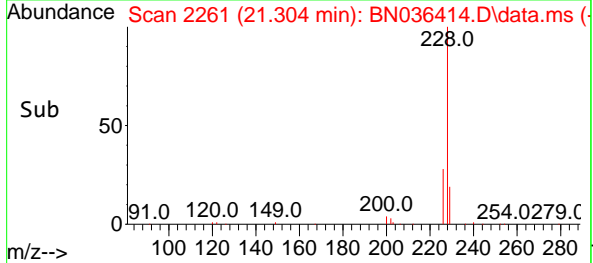
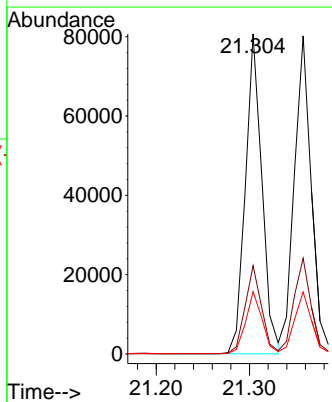
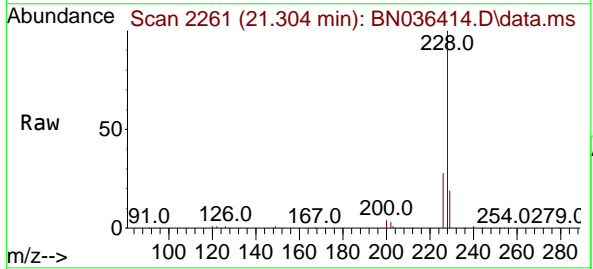
Instrument : BNA_N
 Client Sample Id : SSTDICC3.2

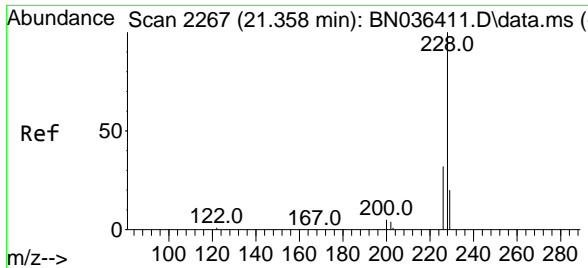
Tgt Ion	Resp	Lower	Upper
244	61695	100	100
212	8.9	8.1	12.1
122	12.8	12.8	19.2



#32
 Benzo(a)anthracene
 Concen: 3.312 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion	Resp	Lower	Upper
228	99445	100	100
226	27.6	22.2	33.2
229	19.5	16.5	24.7



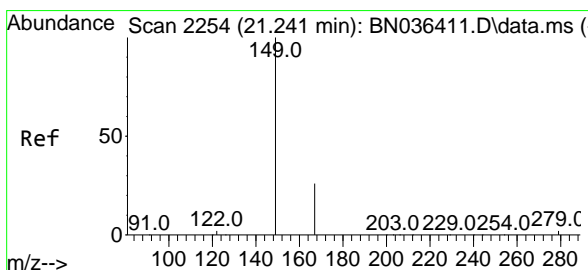
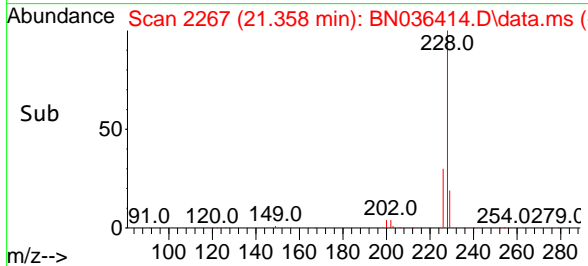
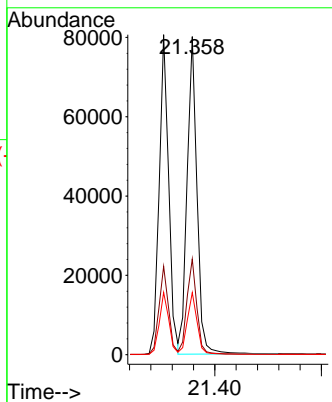
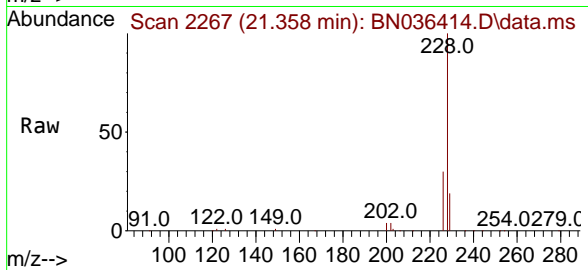


#33
 Chrysene
 Concen: 3.354 ng
 RT: 21.358 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion: 228 Resp: 103234

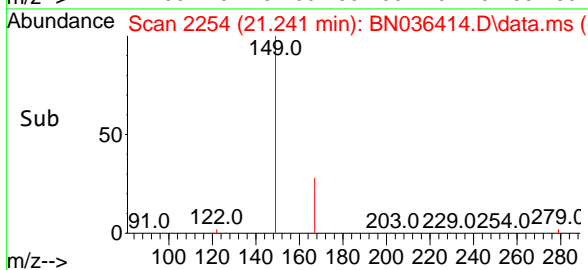
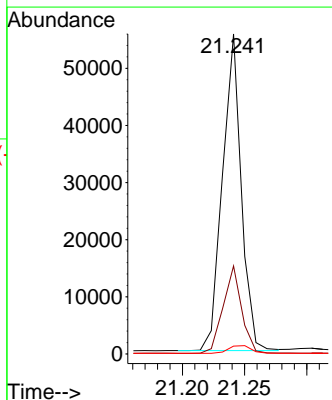
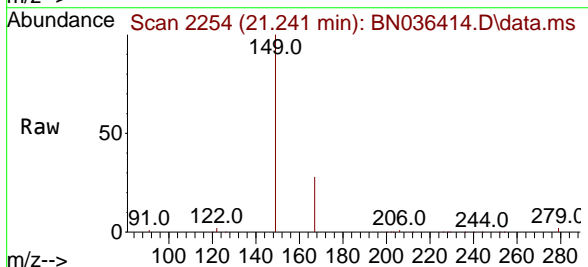
Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.5	38.3
229	19.5	16.4	24.6

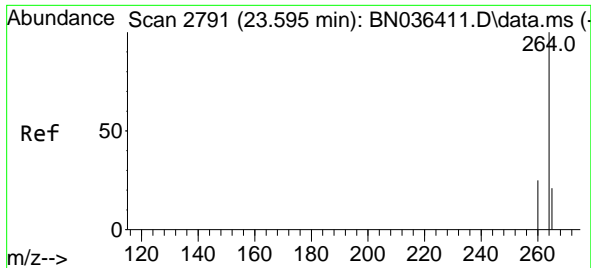


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 3.480 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. 0.000 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion: 149 Resp: 58234

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.2	31.8
279	3.0	2.7	4.1



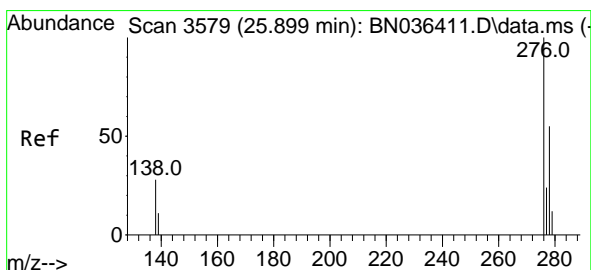
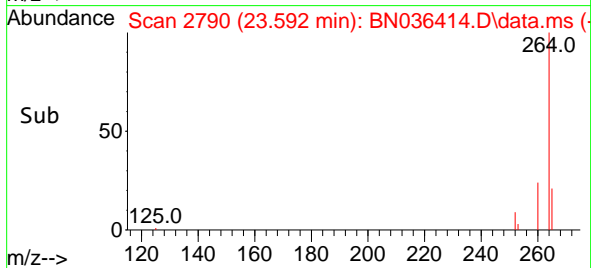
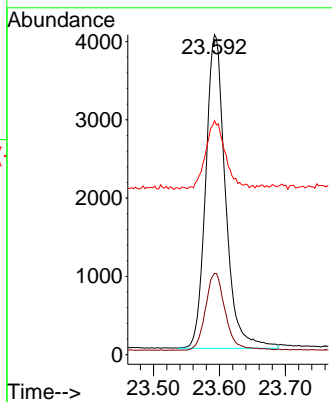
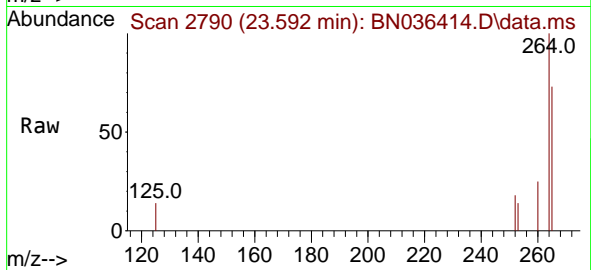


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.592 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion:264 Resp: 8327

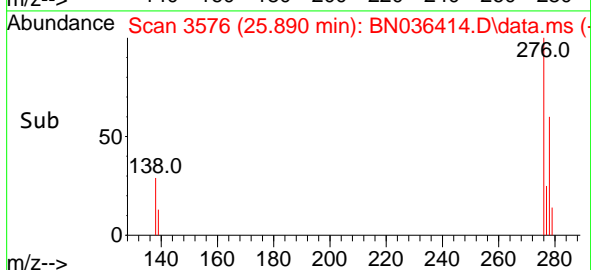
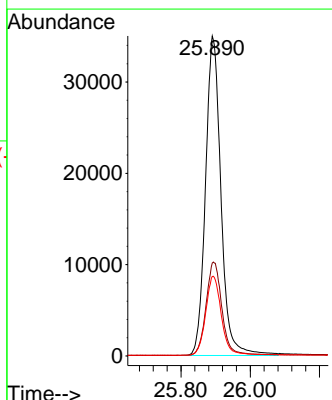
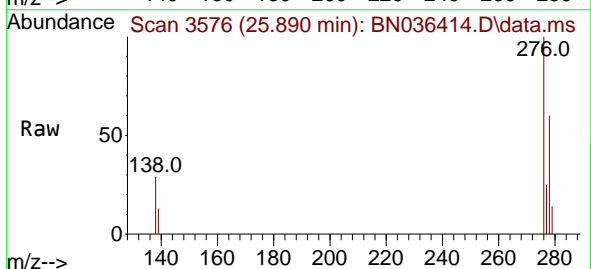
Ion	Ratio	Lower	Upper
264	100		
260	25.4	20.9	31.3
265	73.1	60.7	91.1

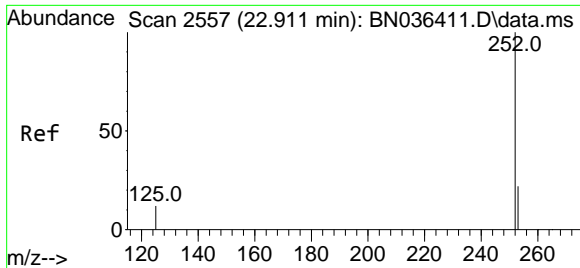


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 3.320 ng
 RT: 25.890 min Scan# 3576
 Delta R.T. -0.009 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion:276 Resp: 108596

Ion	Ratio	Lower	Upper
276	100		
138	29.9	22.2	33.2
277	25.1	19.8	29.6



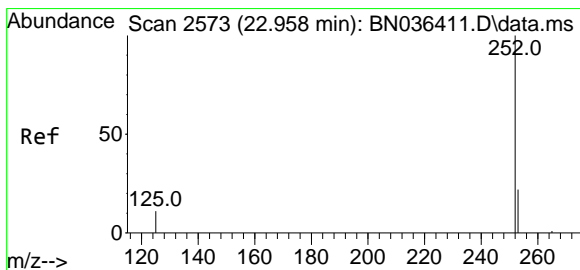
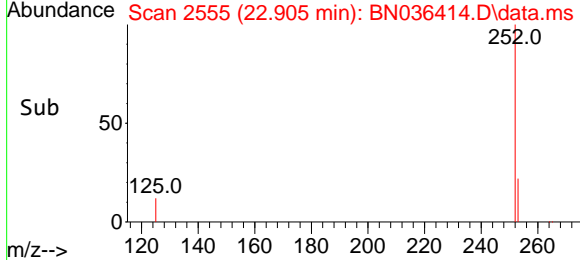
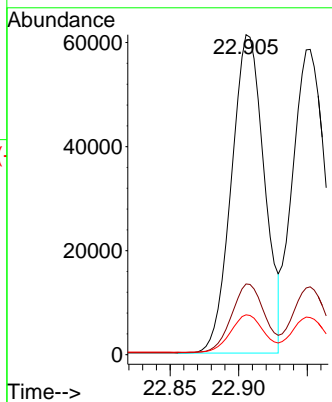
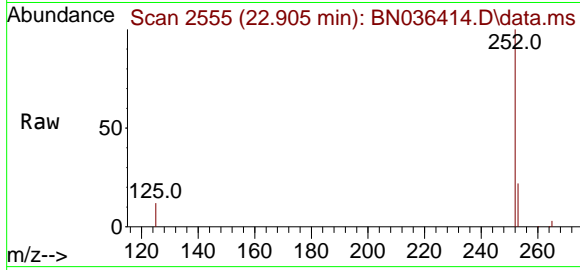


#37
 Benzo(b)fluoranthene
 Concen: 3.445 ng
 RT: 22.905 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument : BNA_N
 Client Sample Id : SSTDICC3.2

Tgt Ion:252 Resp: 101833

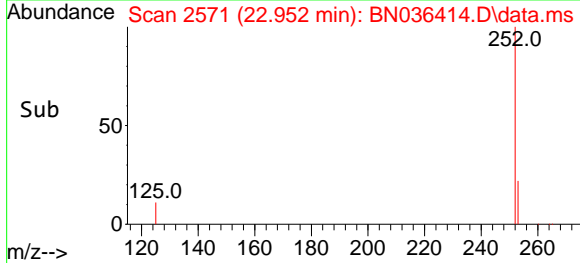
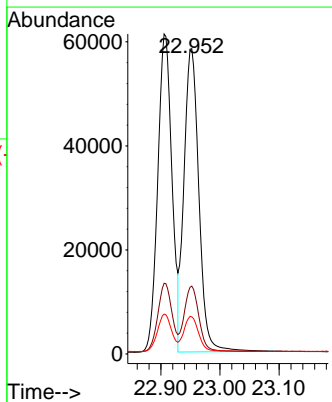
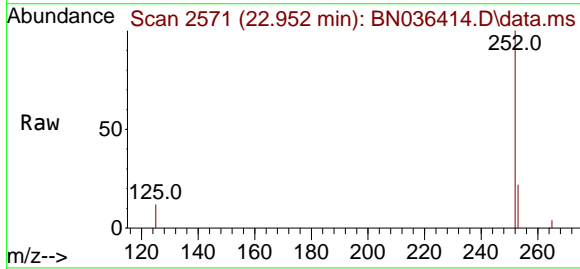
Ion	Ratio	Lower	Upper
252	100		
253	22.1	21.9	32.9
125	12.5	15.0	22.6#

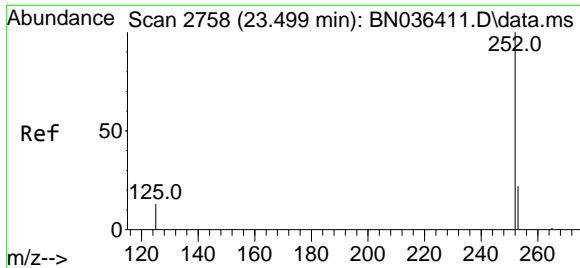


#38
 Benzo(k)fluoranthene
 Concen: 3.385 ng
 RT: 22.952 min Scan# 2571
 Delta R.T. -0.006 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion:252 Resp: 102040

Ion	Ratio	Lower	Upper
252	100		
253	22.2	22.2	33.4#
125	12.2	15.0	22.4#



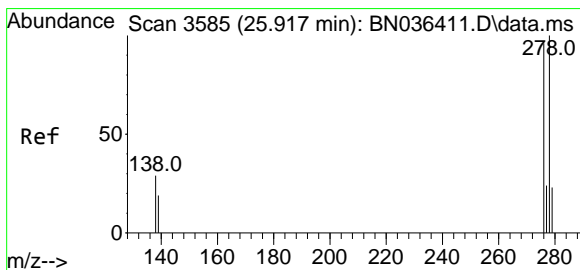
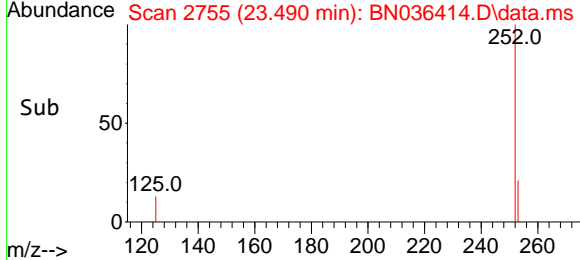
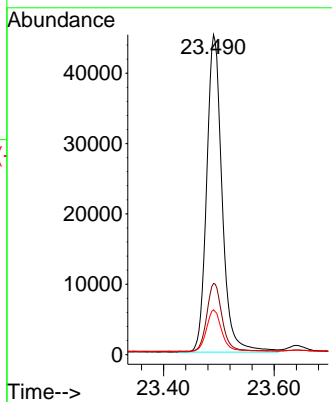
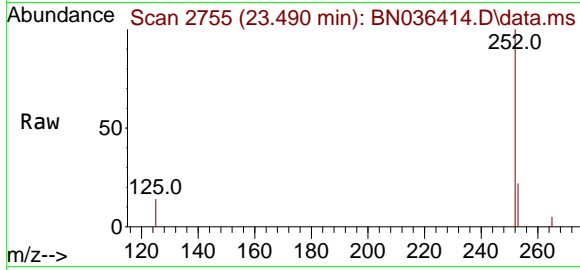


#39
 Benzo(a)pyrene
 Concen: 3.437 ng
 RT: 23.490 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion:252 Resp: 87191

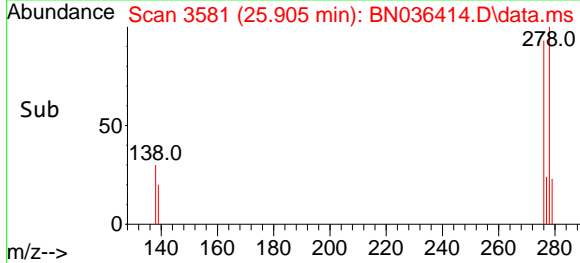
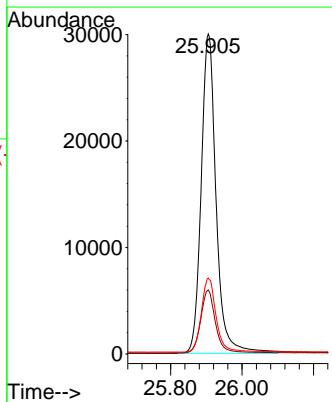
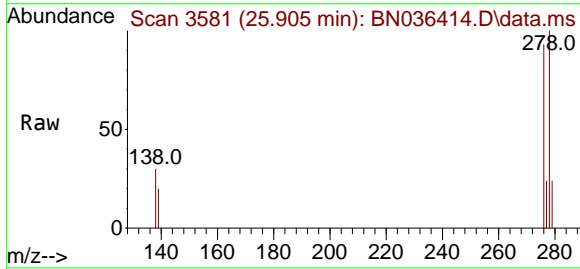
Ion	Ratio	Lower	Upper
252	100		
253	22.2	24.4	36.6#
125	14.0	18.2	27.2#

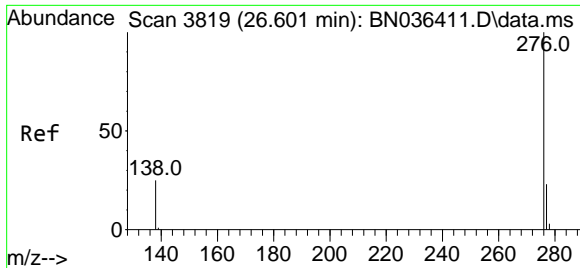


#40
 Dibenzo(a,h)anthracene
 Concen: 3.343 ng
 RT: 25.905 min Scan# 3581
 Delta R.T. -0.012 min
 Lab File: BN036414.D
 Acq: 10 Feb 2025 15:24

Tgt Ion:278 Resp: 86887

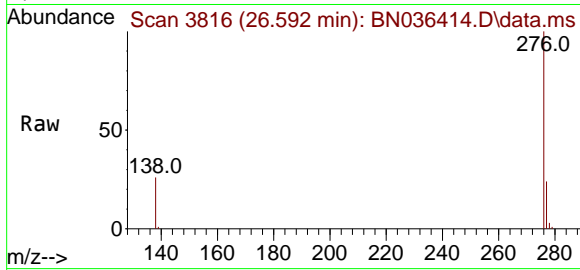
Ion	Ratio	Lower	Upper
278	100		
139	20.0	18.5	27.7
279	23.7	24.8	37.2#



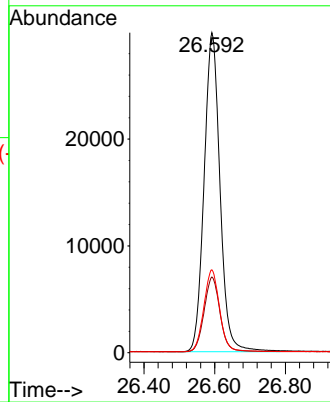
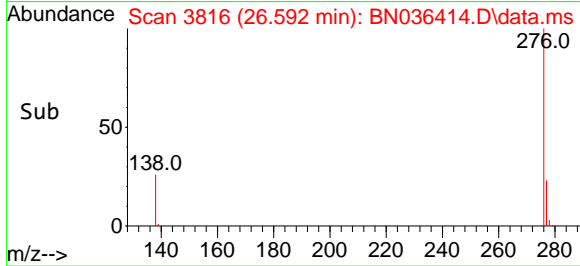


#41
Benzo(g,h,i)perylene
Concen: 3.269 ng
RT: 26.592 min Scan# 3816
Delta R.T. -0.009 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion	Resp	Ion Ratio	Lower	Upper
276	93260	100		
277		23.7	20.7	31.1
138		25.9	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036415.D
 Acq On : 10 Feb 2025 16:00
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Feb 11 00:37:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

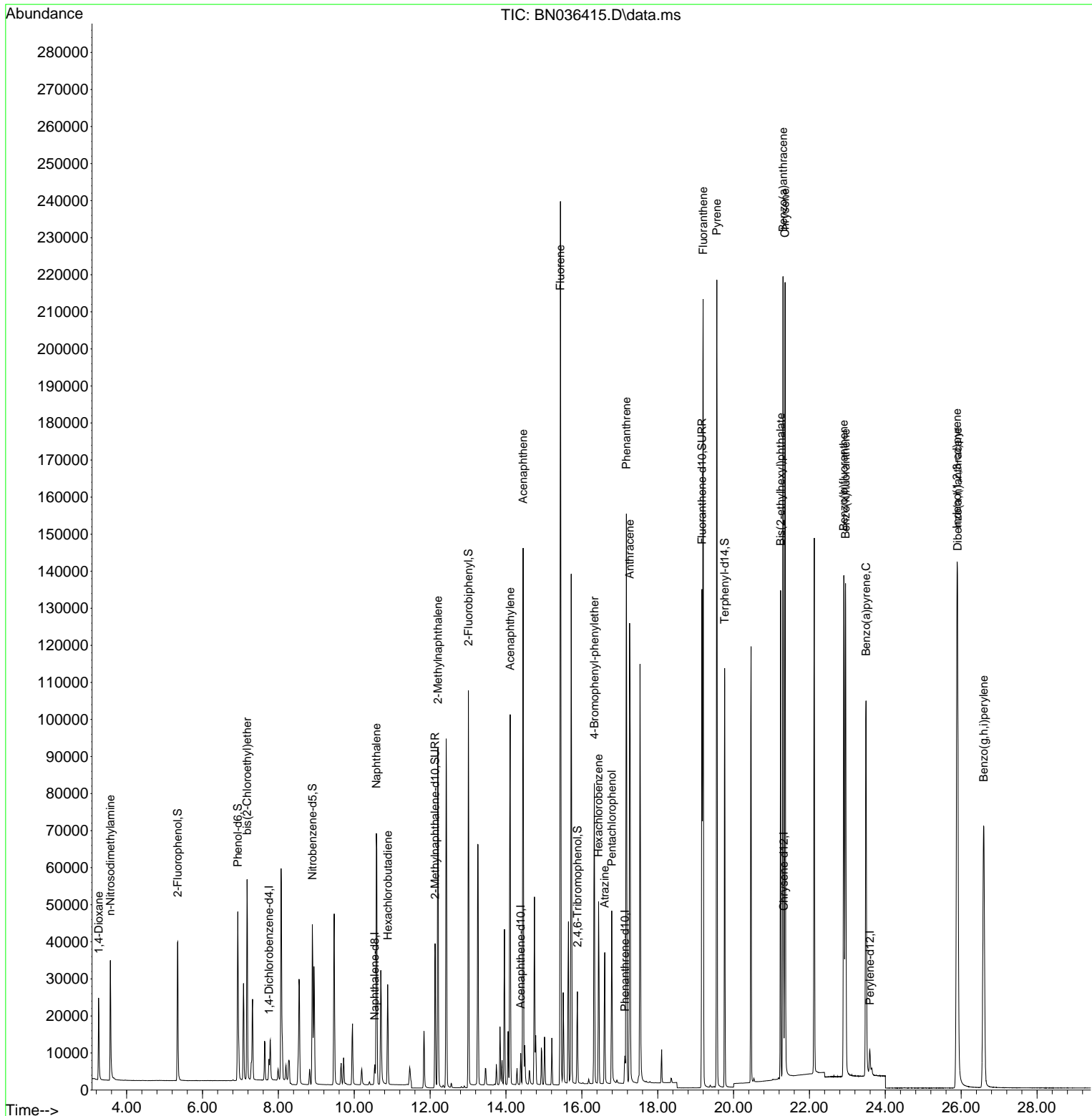
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2586	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6761	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.388	164	4542	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	9953	0.400	ng	# 0.00	
29) Chrysene-d12	21.322	240	9960	0.400	ng	# 0.00	
35) Perylene-d12	23.592	264	9411	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	28619	4.348	ng	0.00	
5) Phenol-d6	6.930	99	37616	4.898	ng	0.00	
8) Nitrobenzene-d5	8.897	82	32241	5.118	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	52187	5.642	ng	-0.01	
14) 2,4,6-Tribromophenol	15.883	330	12444	4.447	ng	0.00	
15) 2-Fluorobiphenyl	13.009	172	88478	4.567	ng	-0.01	
27) Fluoranthene-d10	19.164	212	143795	5.615	ng	0.00	
31) Terphenyl-d14	19.764	244	104936	5.088	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.261	88	12303	4.303	ng	97	
3) n-Nitrosodimethylamine	3.572	42	21660	4.216	ng	# 99	
6) bis(2-Chloroethyl)ether	7.176	93	35791	5.604	ng	99	
9) Naphthalene	10.584	128	90689	4.696	ng	97	
10) Hexachlorobutadiene	10.883	225	21383	3.534	ng	# 100	
12) 2-Methylnaphthalene	12.207	142	63405	5.226	ng	97	
16) Acenaphthylene	14.110	152	103358	4.917	ng	99	
17) Acenaphthene	14.452	154	66375	4.612	ng	97	
18) Fluorene	15.435	166	93442	5.045	ng	96	
21) 4-Bromophenyl-phenylether	16.329	248	29550	4.334	ng	# 86	
22) Hexachlorobenzene	16.441	284	35446	3.983	ng	97	
23) Atrazine	16.602	200	26508	5.288	ng	92	
24) Pentachlorophenol	16.789	266	20784	5.340	ng	99	
25) Phenanthrene	17.173	178	143424	4.916	ng	100	
26) Anthracene	17.260	178	135332	5.105	ng	100	
28) Fluoranthene	19.197	202	181794	5.257	ng	99	
30) Pyrene	19.559	202	185711	4.666	ng	100	
32) Benzo(a)anthracene	21.304	228	169514	4.790	ng	99	
33) Chrysene	21.358	228	170028	4.687	ng	97	
34) Bis(2-ethylhexyl)phtha...	21.241	149	101929	5.168	ng	99	
36) Indeno(1,2,3-cd)pyrene	25.890	276	172989	4.679	ng	97	
37) Benzo(b)fluoranthene	22.905	252	166596	4.986	ng	# 88	
38) Benzo(k)fluoranthene	22.952	252	166186	4.879	ng	# 88	
39) Benzo(a)pyrene	23.490	252	141837	4.947	ng	# 83	
40) Dibenzo(a,h)anthracene	25.905	278	138330	4.709	ng	# 89	
41) Benzo(g,h,i)perylene	26.595	276	146932	4.557	ng	96	

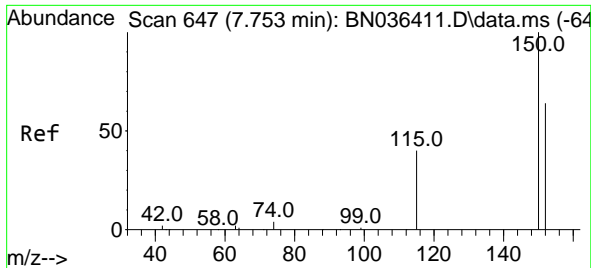
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036415.D
 Acq On : 10 Feb 2025 16:00
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Feb 11 00:37:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration



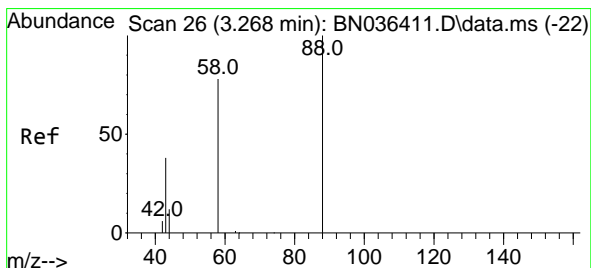
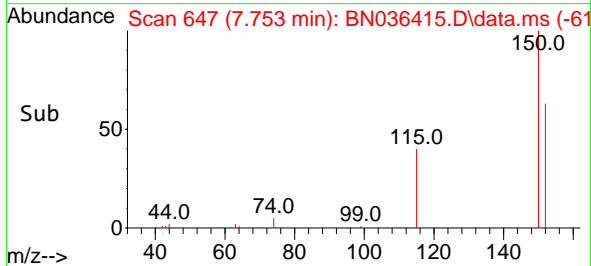
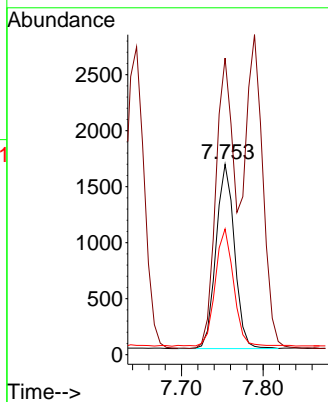
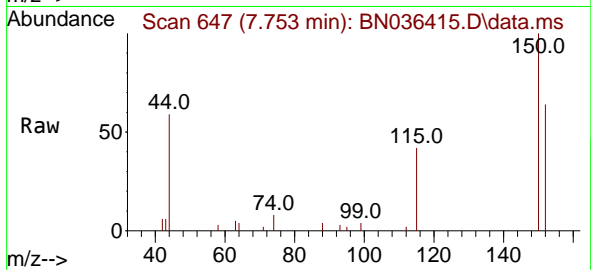


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Tgt Ion: 152 Resp: 2586

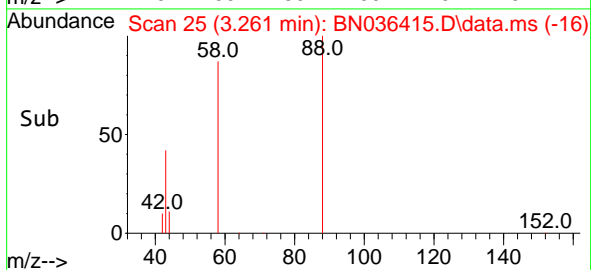
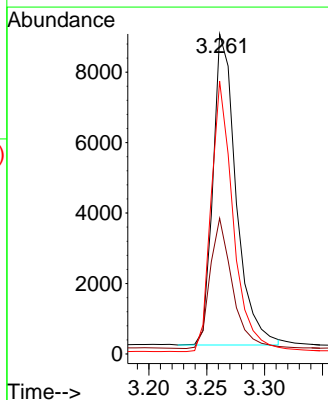
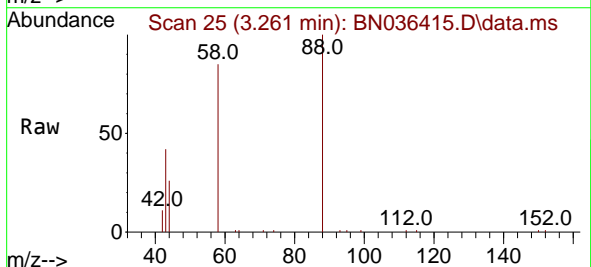
Ion	Ratio	Lower	Upper
152	100		
150	155.8	123.7	185.5
115	66.1	52.5	78.7

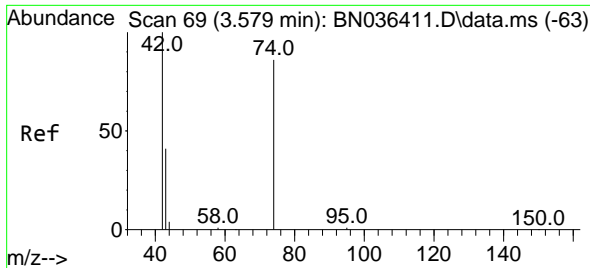


#2
 1,4-Dioxane
 Concen: 4.303 ng
 RT: 3.261 min Scan# 25
 Delta R.T. -0.007 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion: 88 Resp: 12303

Ion	Ratio	Lower	Upper
88	100		
43	40.4	33.7	50.5
58	82.9	68.9	103.3



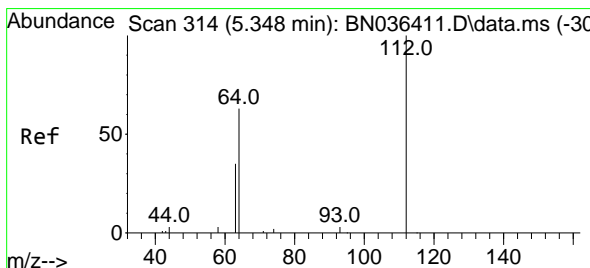
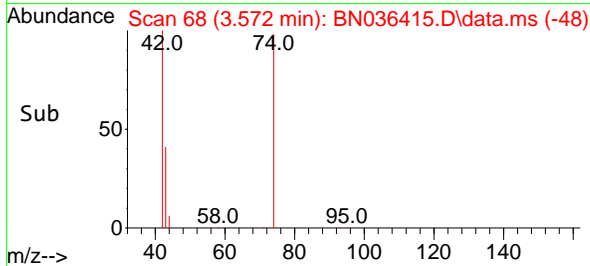
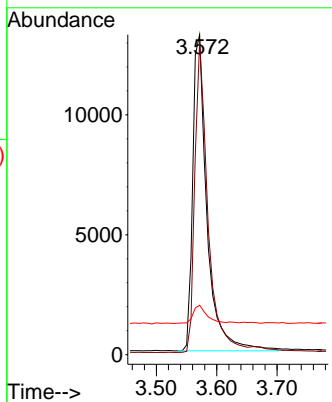
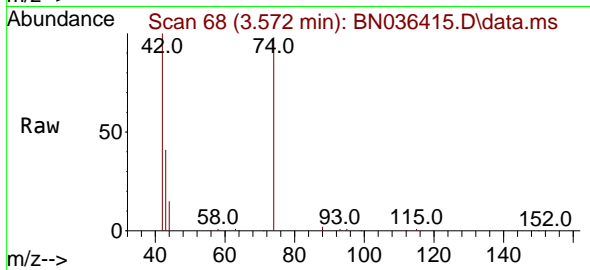


#3
 n-Nitrosodimethylamine
 Concen: 4.216 ng
 RT: 3.572 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Tgt Ion: 42 Resp: 21660

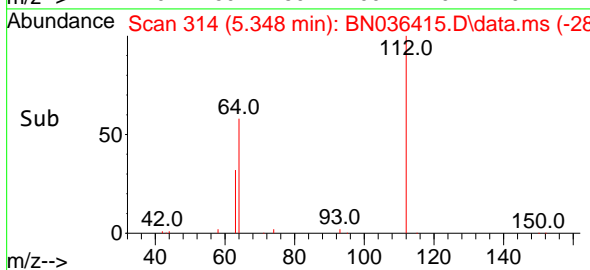
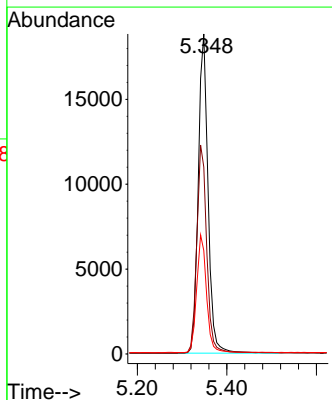
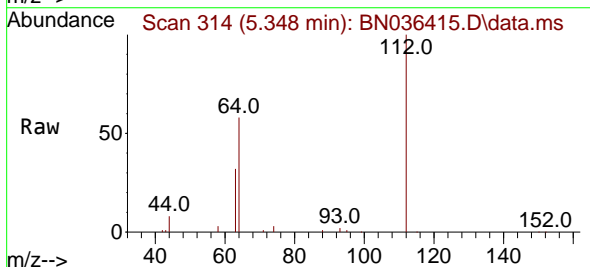
Ion	Ratio	Lower	Upper
42	100		
74	89.7	71.8	107.6
44	5.6	7.8	11.6

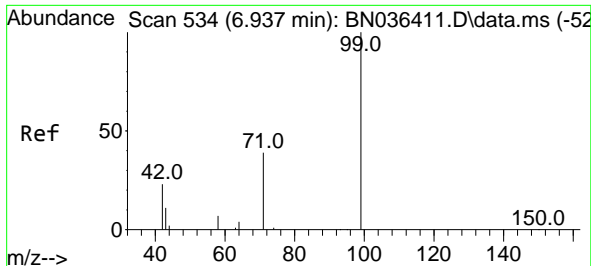


#4
 2-Fluorophenol
 Concen: 4.348 ng
 RT: 5.348 min Scan# 314
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion: 112 Resp: 28619

Ion	Ratio	Lower	Upper
112	100		
64	66.1	53.4	80.0
63	37.1	30.3	45.5

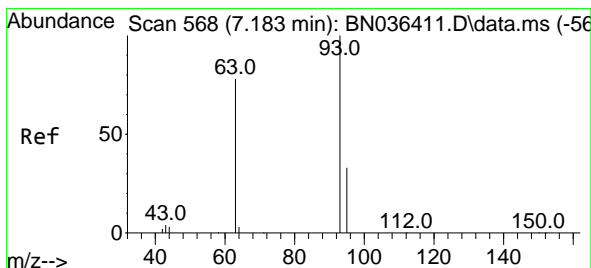
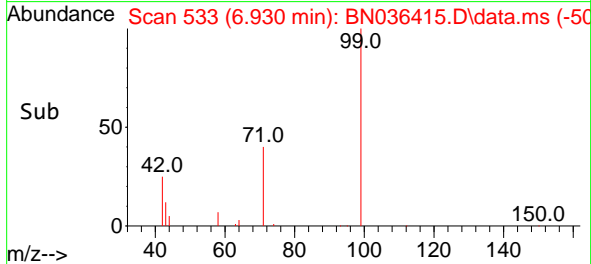
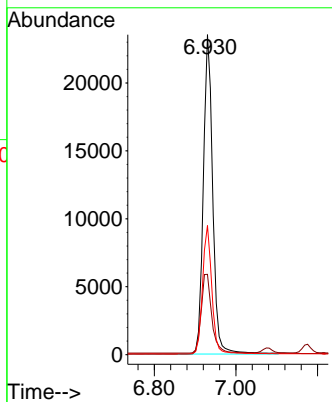
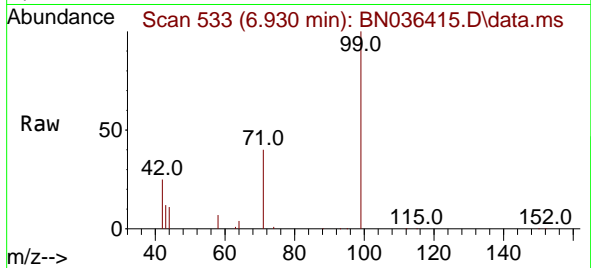




#5
Phenol-d6
Concen: 4.898 ng
RT: 6.930 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

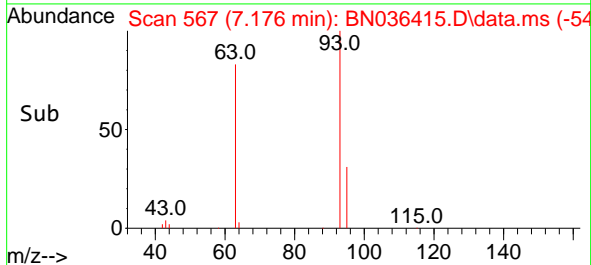
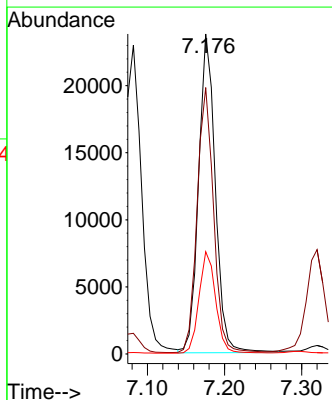
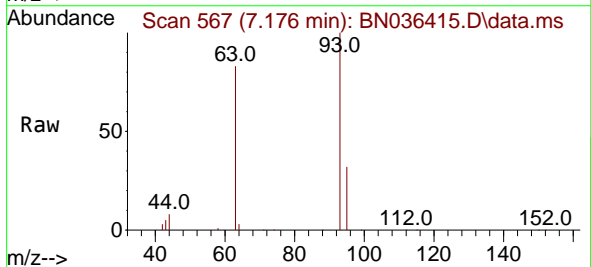
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

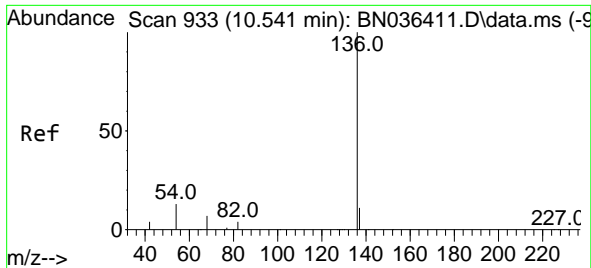
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	37616	100		
42		27.6	21.7	32.5
71		40.0	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 5.604 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	35791	100		
63		81.8	66.3	99.5
95		31.7	26.2	39.4



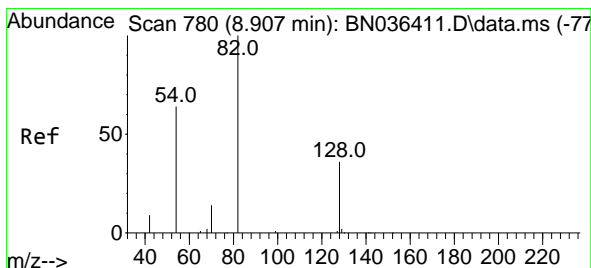
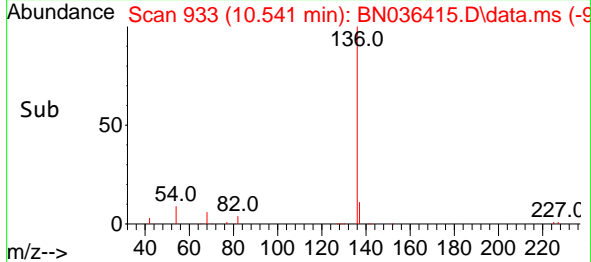
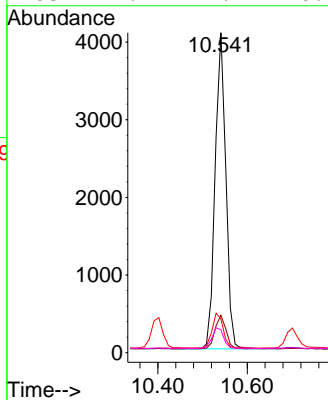
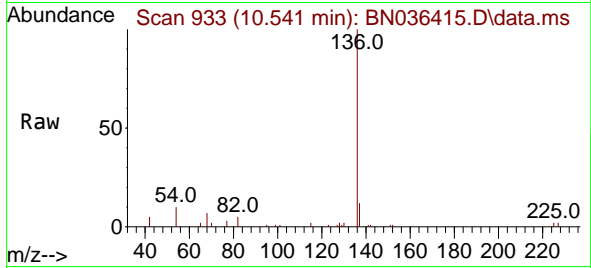


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Instrument : BNA_N
ClientSampleId : SSTDICC5.0

Tgt Ion:136 Resp: 6761

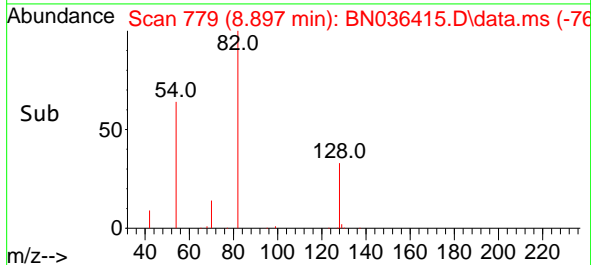
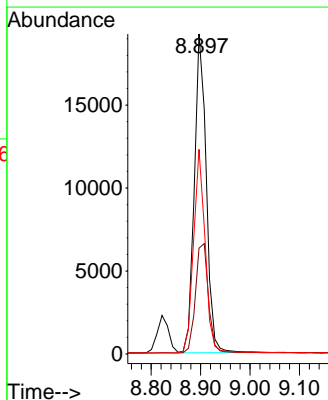
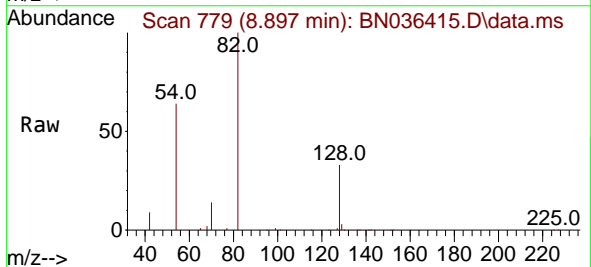
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.1	15.1
54	10.5	11.8	17.6#
68	7.1	7.2	10.8#

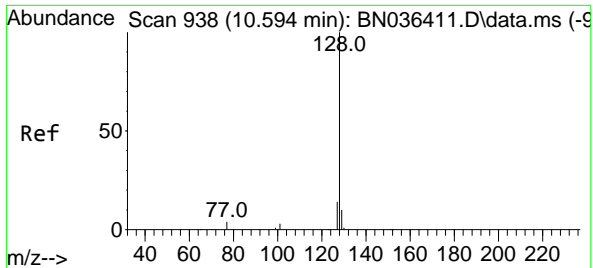


#8
Nitrobenzene-d5
Concen: 5.118 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 82 Resp: 32241

Ion	Ratio	Lower	Upper
82	100		
128	33.1	31.9	47.9
54	64.0	53.1	79.7



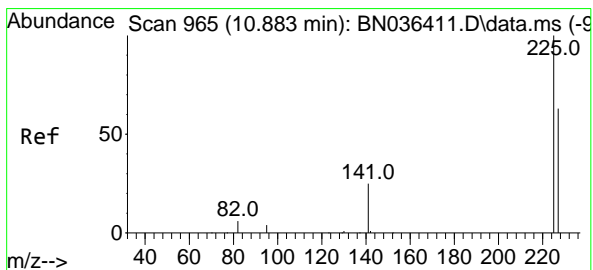
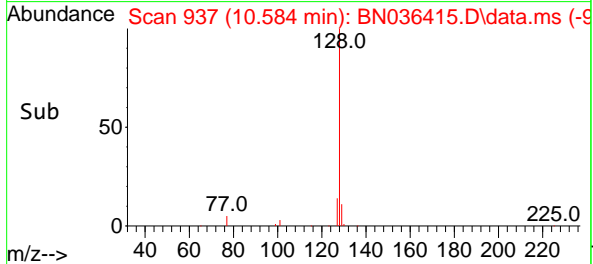
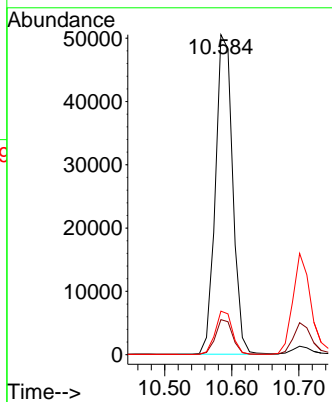
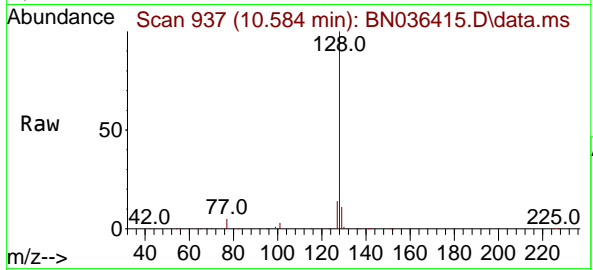


#9
 Naphthalene
 Concen: 4.696 ng
 RT: 10.584 min Scan# 911
 Delta R.T. -0.011 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Tgt Ion:128 Resp: 90689

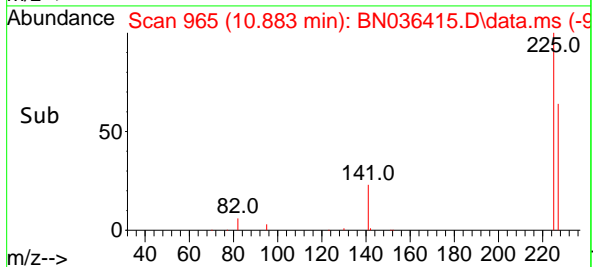
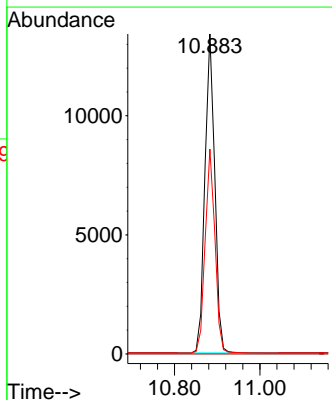
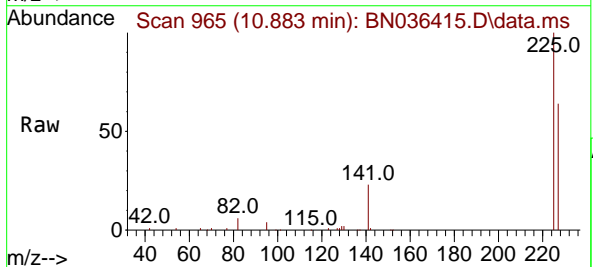
Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.6	14.4
127	13.6	12.0	18.0

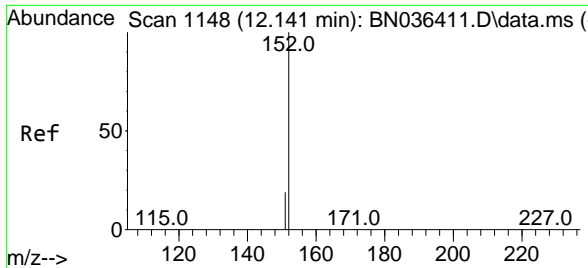


#10
 Hexachlorobutadiene
 Concen: 3.534 ng
 RT: 10.883 min Scan# 965
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:225 Resp: 21383

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.9	76.3

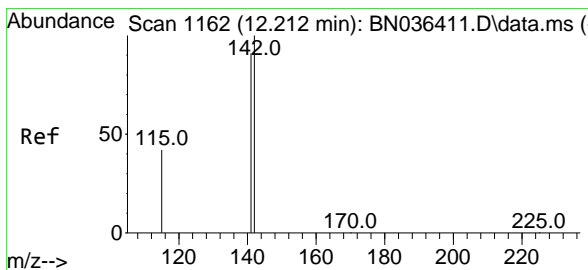
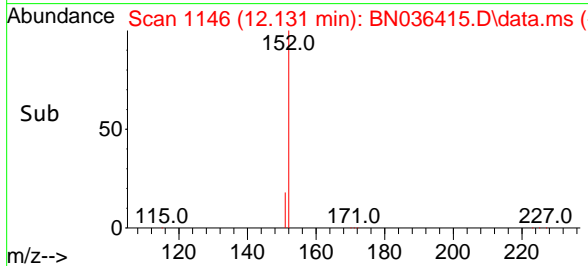
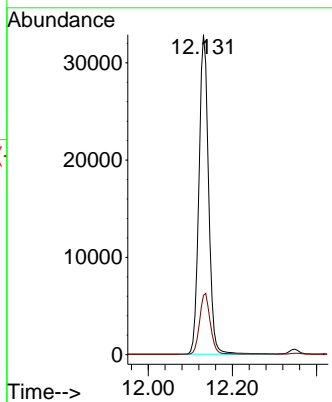
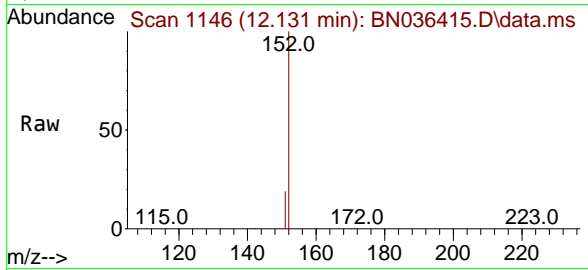




#11
 2-Methylnaphthalene-d10
 Concen: 5.642 ng
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

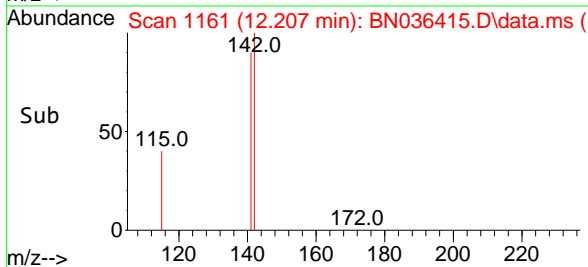
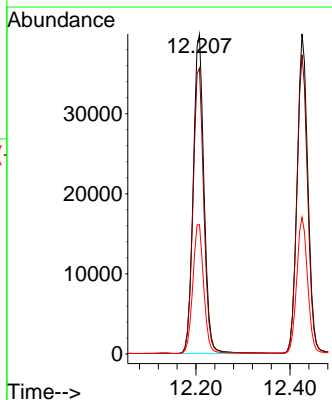
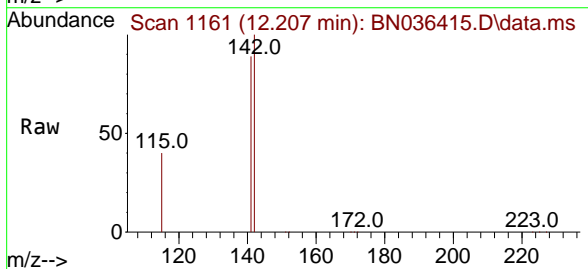
Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

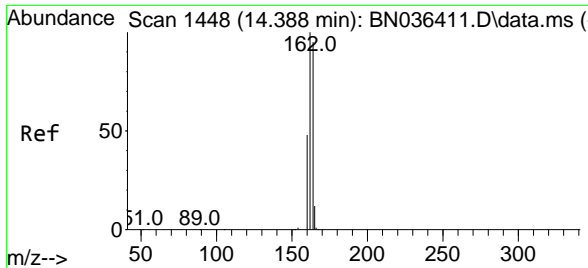
Tgt Ion:152 Resp: 52187
 Ion Ratio Lower Upper
 152 100
 151 21.0 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 5.226 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

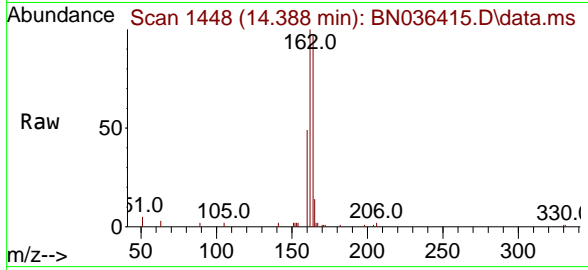
Tgt Ion:142 Resp: 63405
 Ion Ratio Lower Upper
 142 100
 141 89.5 72.8 109.2
 115 40.5 35.5 53.3





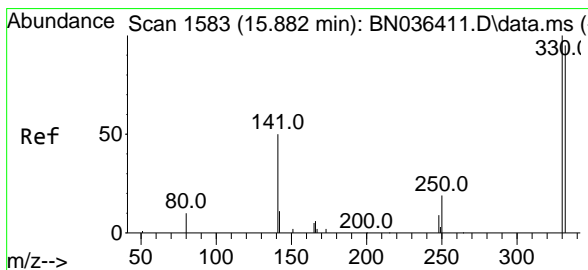
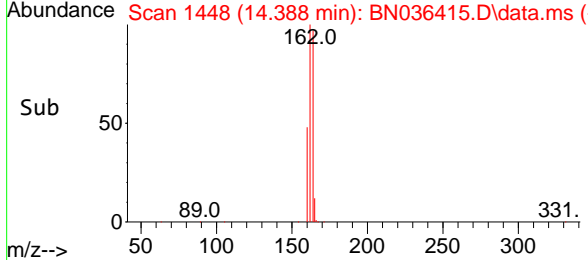
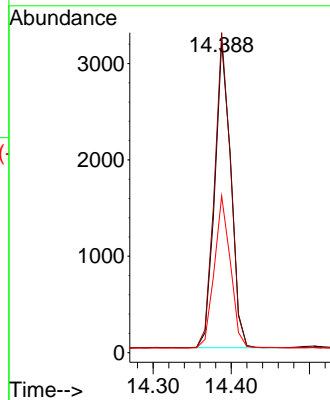
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.388 min Scan# 1448
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0



Tgt Ion:164 Resp: 4542

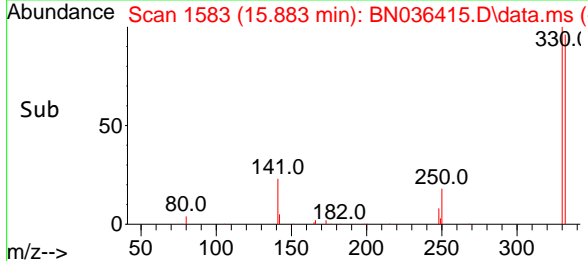
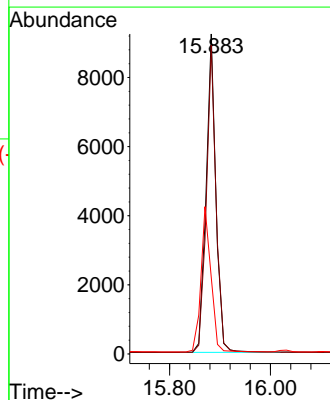
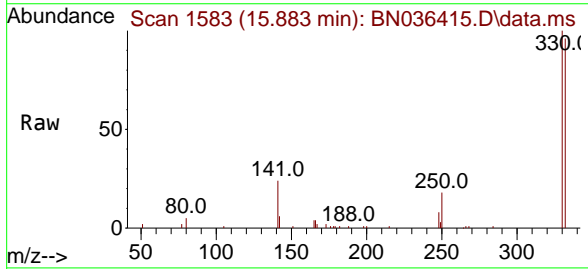
Ion	Ratio	Lower	Upper
164	100		
162	102.9	84.1	126.1
160	50.4	41.4	62.0

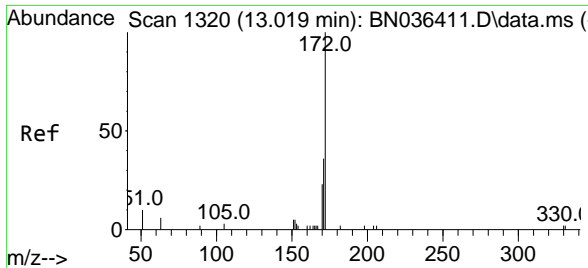


#14
 2,4,6-Tribromophenol
 Concen: 4.447 ng
 RT: 15.883 min Scan# 1583
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:330 Resp: 12444

Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.6	114.8
141	46.6	37.8	56.8



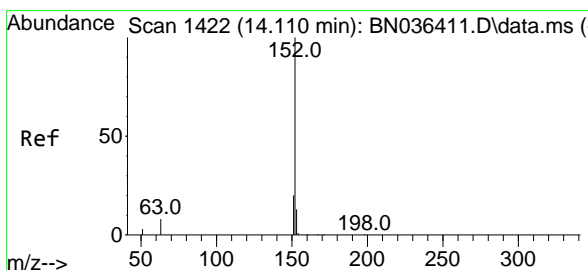
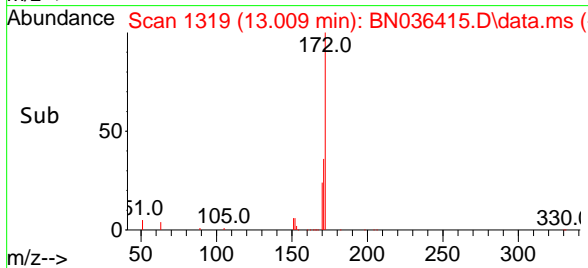
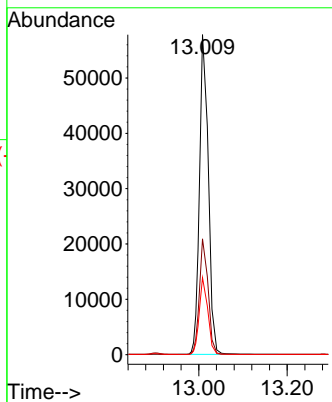
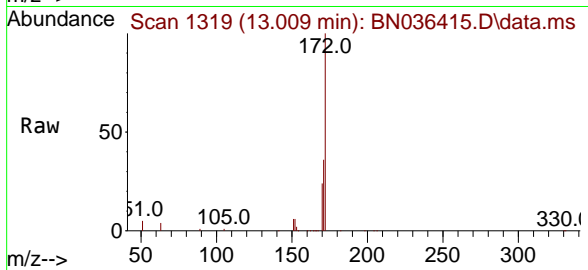


#15
 2-Fluorobiphenyl
 Concen: 4.567 ng
 RT: 13.009 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Tgt Ion:172 Resp: 88478

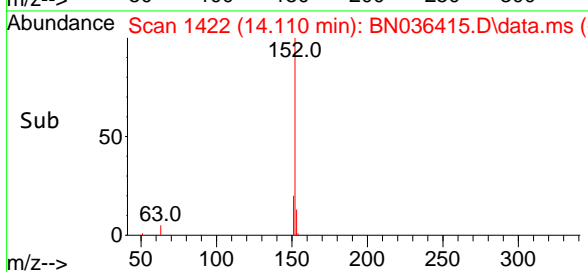
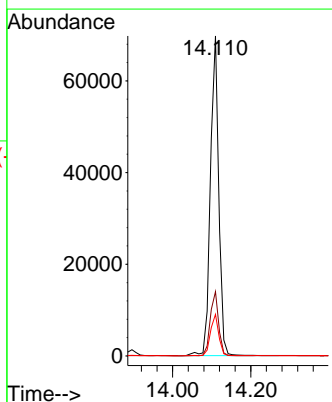
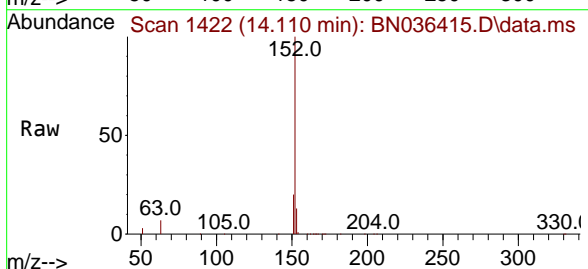
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.6	44.4
170	24.0	19.8	29.6

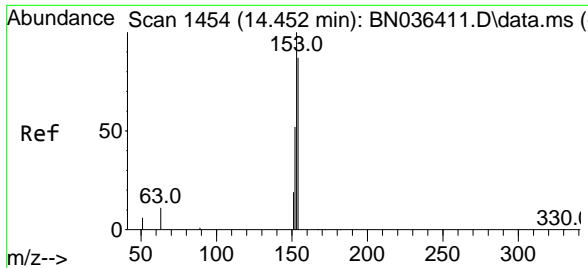


#16
 Acenaphthylene
 Concen: 4.917 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:152 Resp: 103358

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8
153	12.9	10.2	15.2

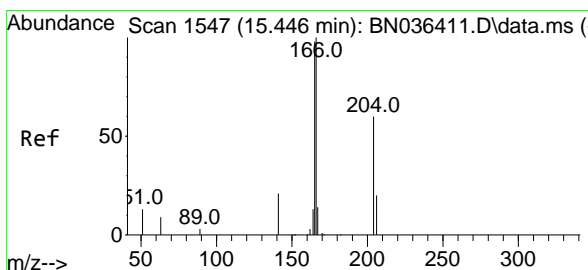
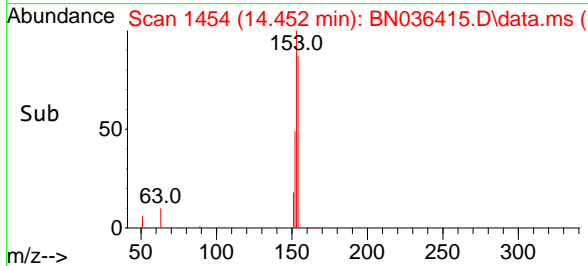
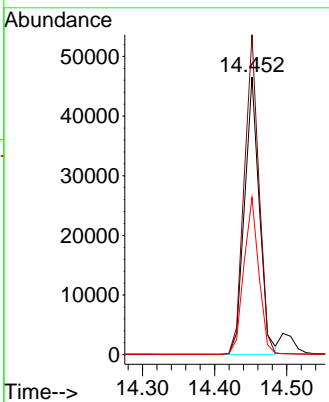
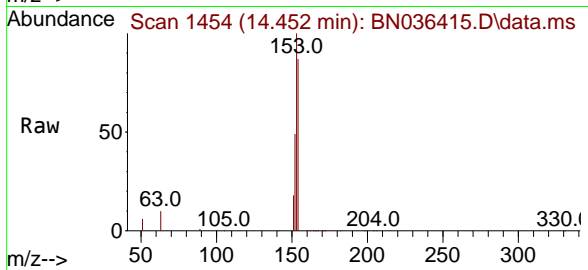




#17
 Acenaphthene
 Concen: 4.612 ng
 RT: 14.452 min Scan# 14
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

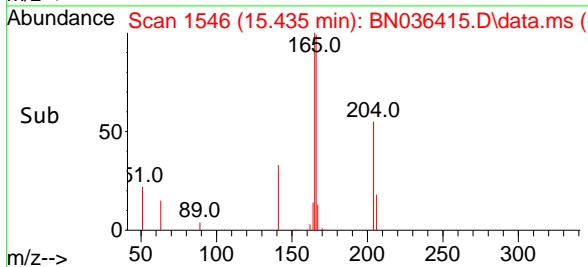
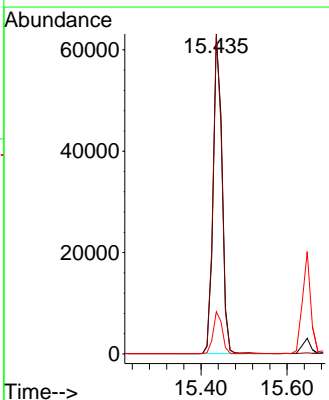
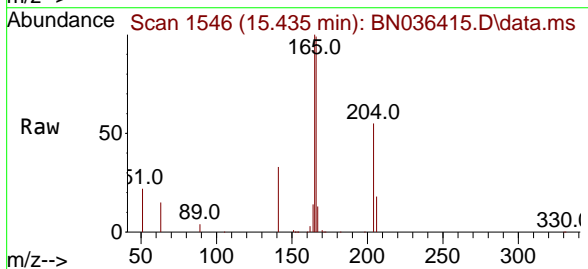
Instrument : BNA_N
 Client Sample Id : SSTDICC5.0

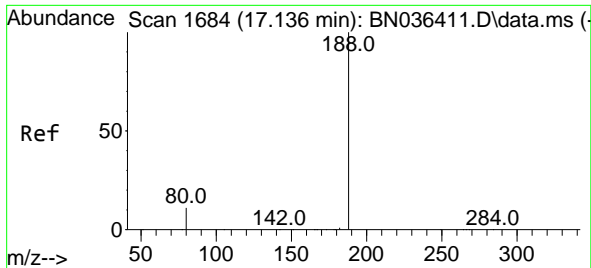
Tgt Ion	Resp	Lower	Upper
154	66375		
153	114.4	93.3	139.9
152	57.1	48.8	73.2



#18
 Fluorene
 Concen: 5.045 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion	Resp	Lower	Upper
166	93442		
165	95.5	79.5	119.3
167	12.8	10.4	15.6



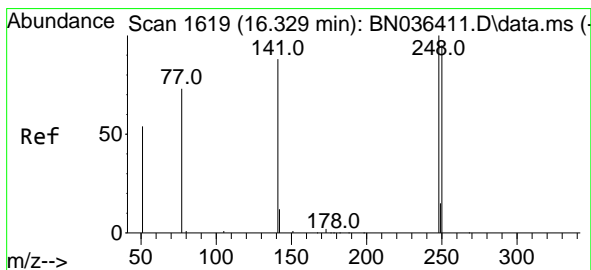
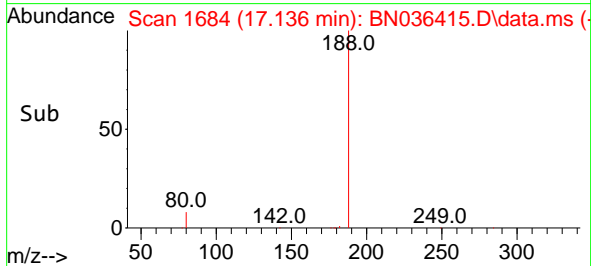
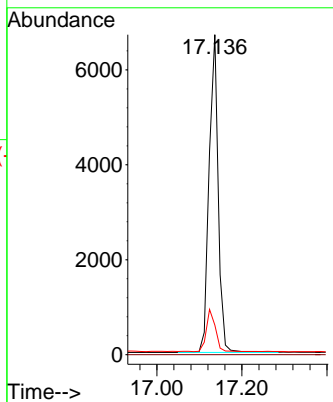
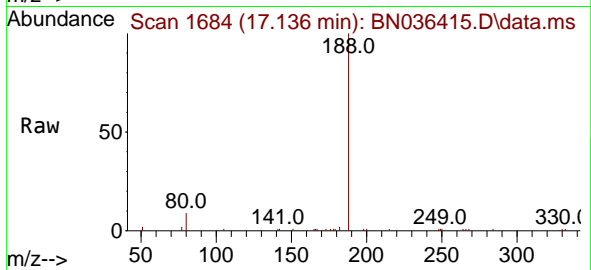


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 1684
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

Tgt Ion:188 Resp: 9953

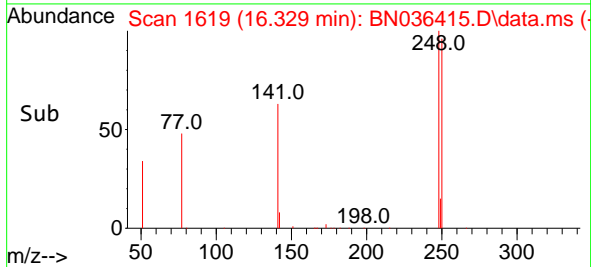
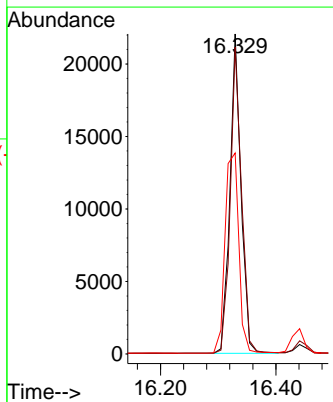
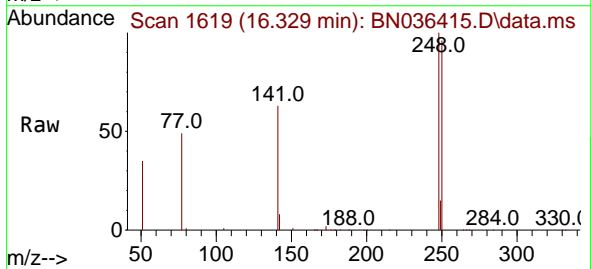
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	9.8	14.6#

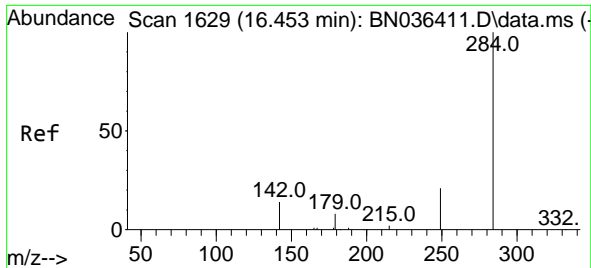


#21
 4-Bromophenyl-phenylether
 Concen: 4.334 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:248 Resp: 29550

Ion	Ratio	Lower	Upper
248	100		
250	95.8	76.1	114.1
141	62.8	71.7	107.5#

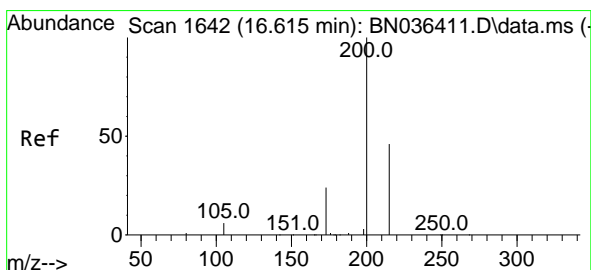
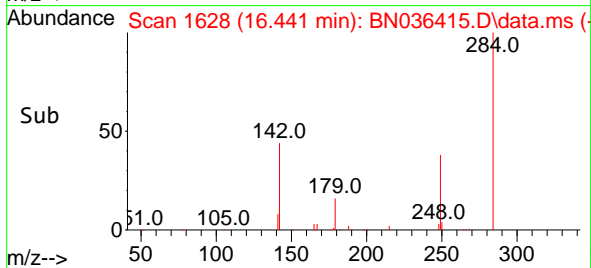
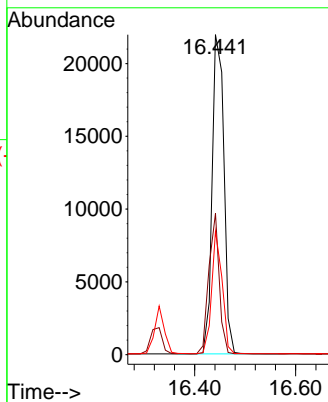
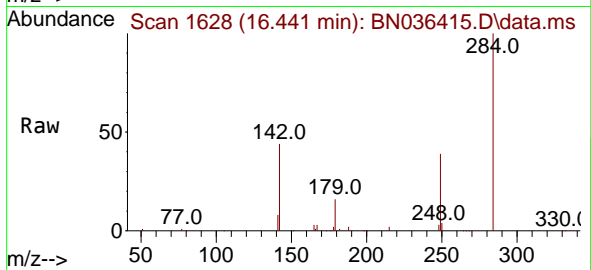




#22
 Hexachlorobenzene
 Concen: 3.983 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.012 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

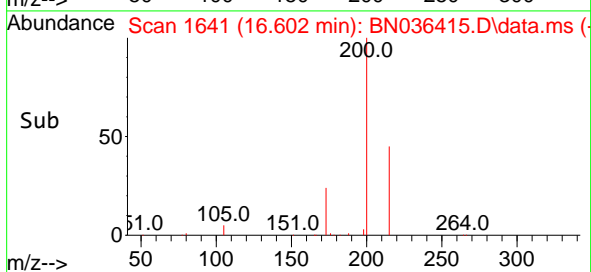
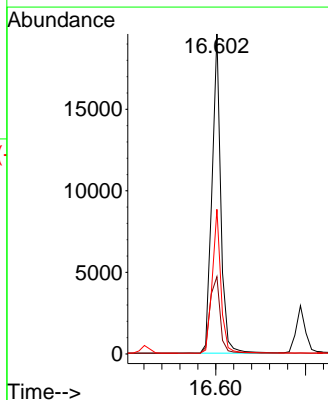
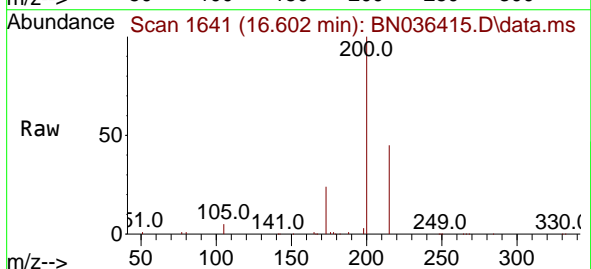
Instrument : BNA_N
 ClientSampleId : BN036415.D
 SSTDICC5.0

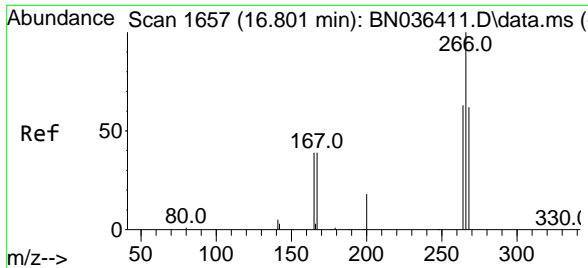
Tgt Ion	Resp	Lower	Upper
284	35446	100	100
142	39.2	33.4	50.0
249	34.2	28.6	43.0



#23
 Atrazine
 Concen: 5.288 ng
 RT: 16.602 min Scan# 1641
 Delta R.T. -0.012 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion	Resp	Lower	Upper
200	26508	100	100
173	24.1	23.2	34.8
215	45.2	40.0	60.0



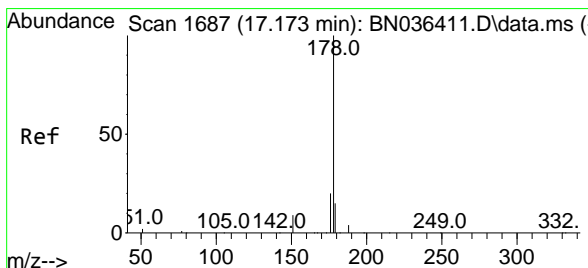
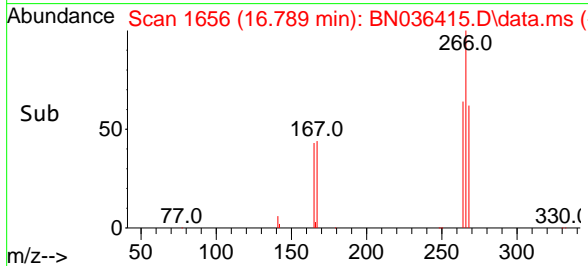
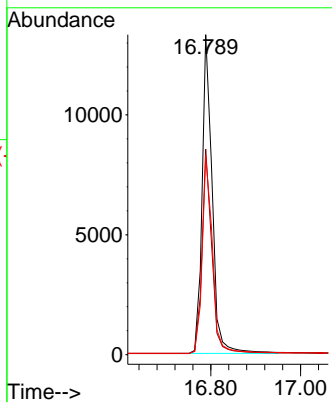
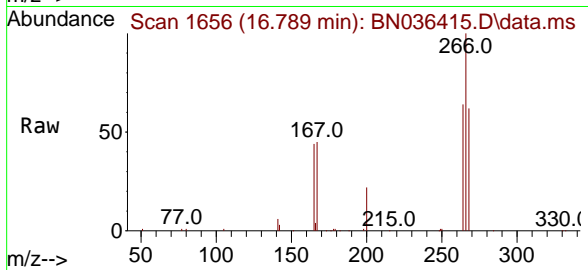


#24
 Pentachlorophenol
 Concen: 5.340 ng
 RT: 16.789 min Scan# 1656
 Delta R.T. -0.012 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

Tgt Ion:266 Resp: 20784

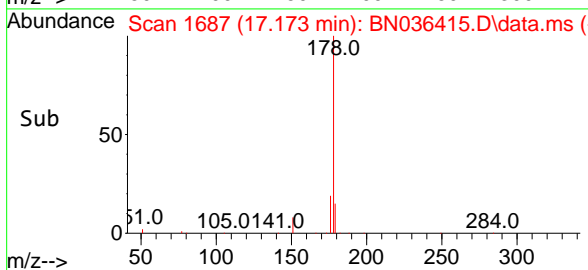
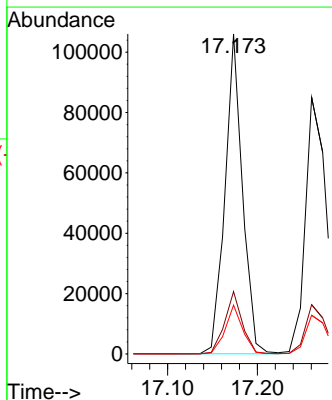
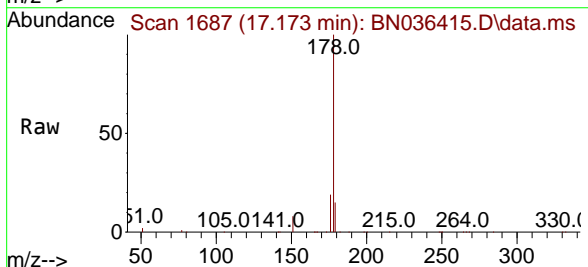
Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.6	76.0
268	63.4	51.9	77.9

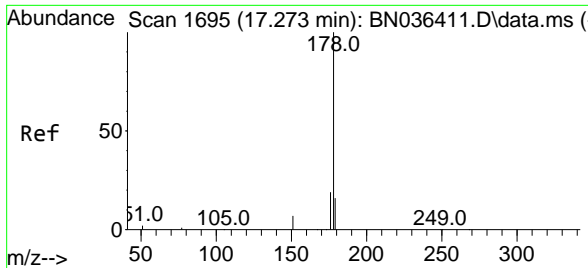


#25
 Phenanthrene
 Concen: 4.916 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:178 Resp: 143424

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.2	12.4	18.6



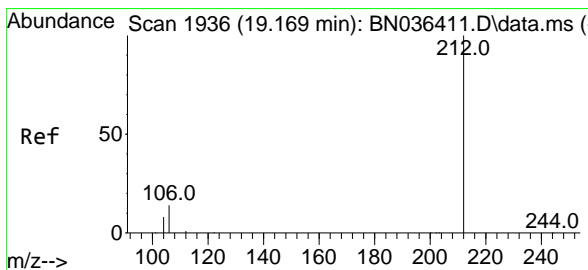
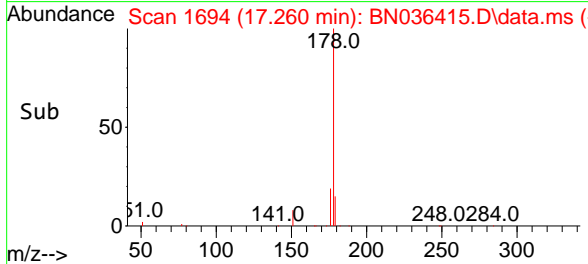
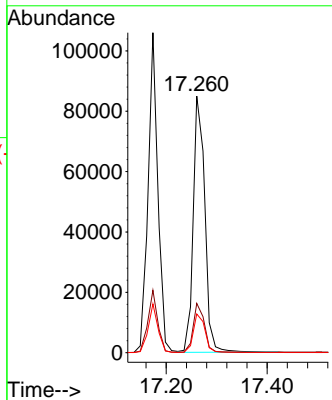
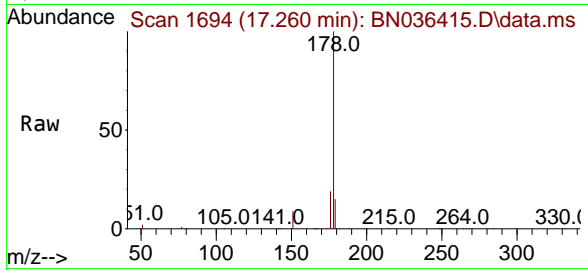


#26
 Anthracene
 Concen: 5.105 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.012 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

Tgt Ion:178 Resp: 135332

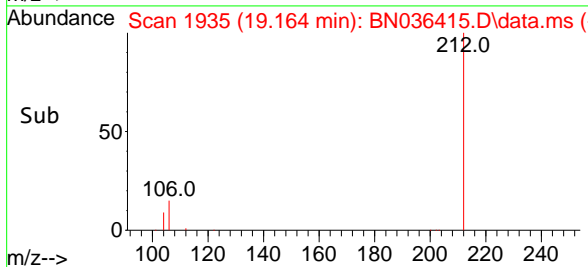
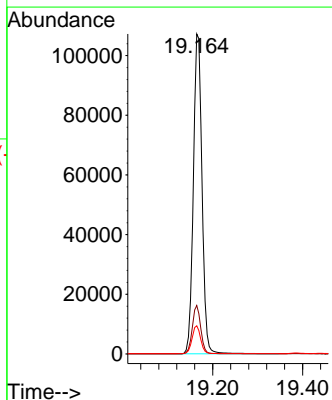
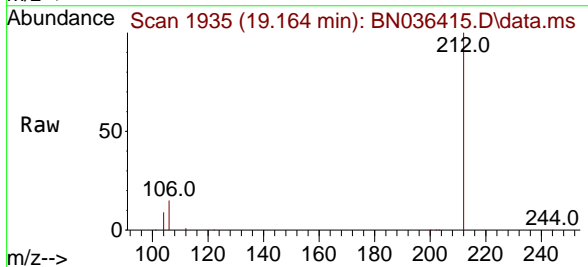
Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.2	12.4	18.6

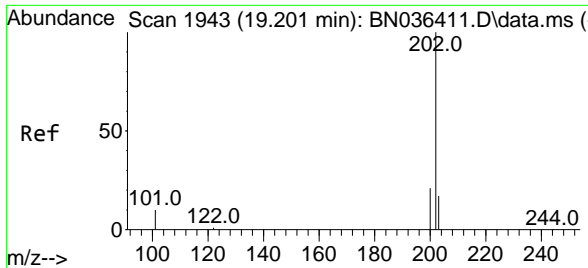


#27
 Fluoranthene-d10
 Concen: 5.615 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:212 Resp: 143795

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.5	17.3
104	8.6	7.1	10.7



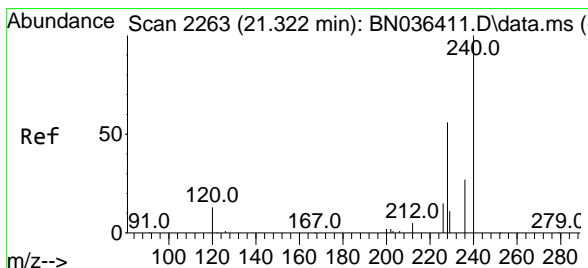
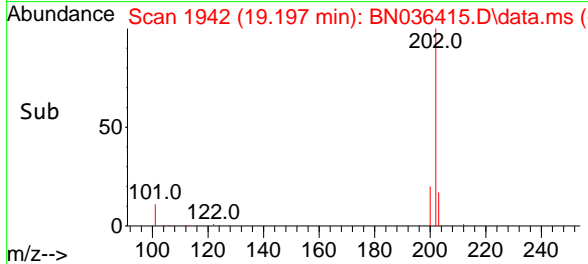
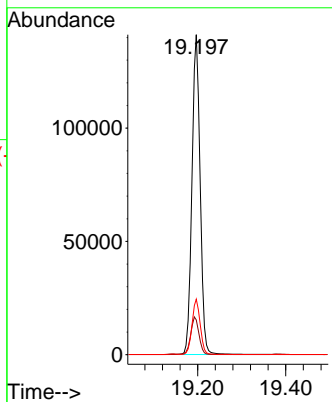
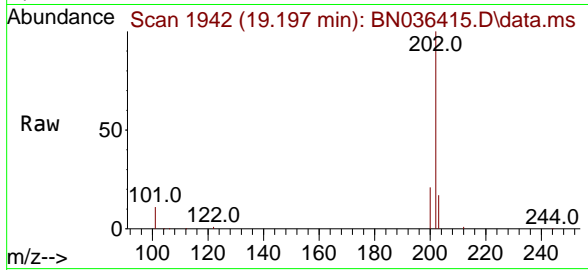


#28
 Fluoranthene
 Concen: 5.257 ng
 RT: 19.197 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument : BNA_N
 Client Sample Id : SSTDICC5.0

Tgt Ion: 202 Resp: 181794

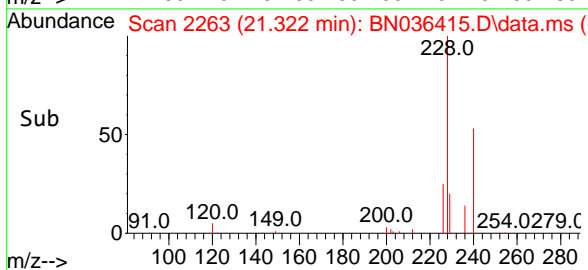
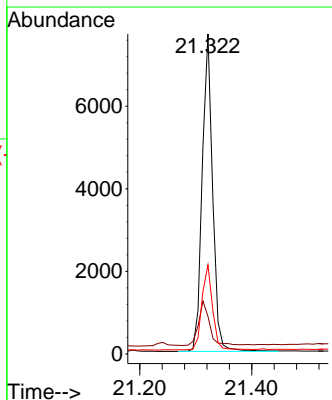
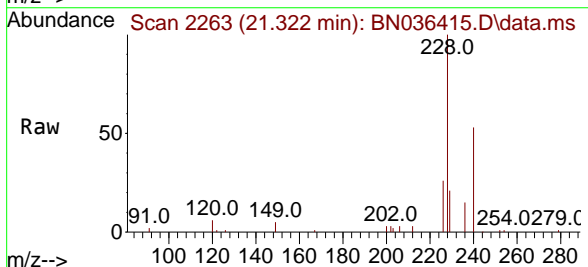
Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.2	13.8
203	17.3	13.4	20.0

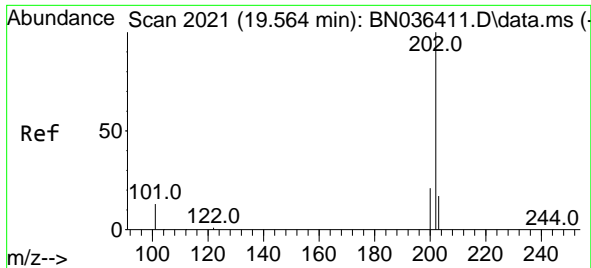


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 2263
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion: 240 Resp: 9960

Ion	Ratio	Lower	Upper
240	100		
120	11.8	13.3	19.9#
236	27.8	23.0	34.6



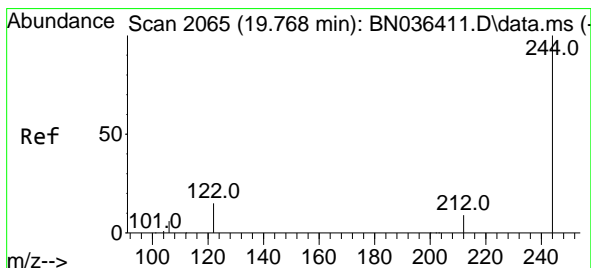
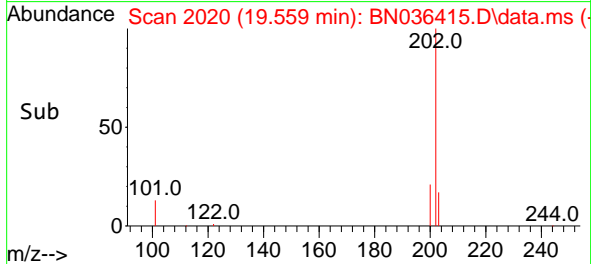
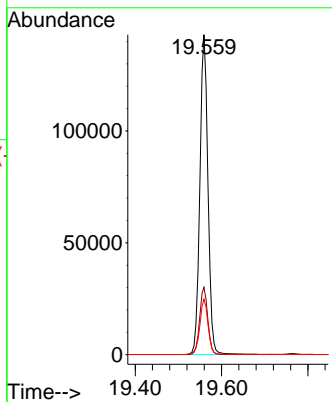
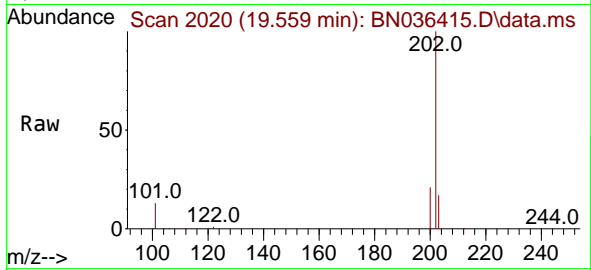


#30
 Pyrene
 Concen: 4.666 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument : BNA_N
 Client Sample Id : SSTDICC5.0

Tgt Ion: 202 Resp: 185711

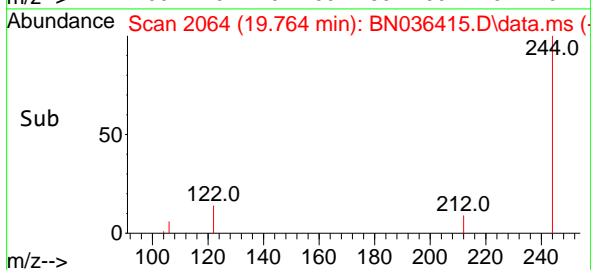
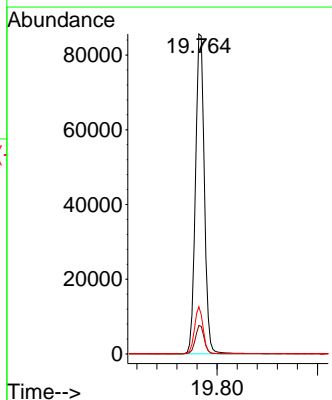
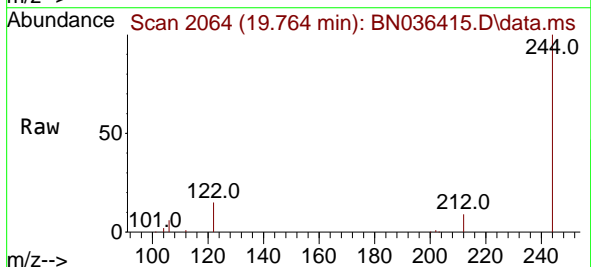
Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.7	13.9	20.9

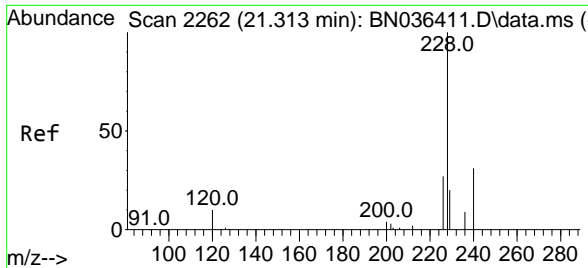


#31
 Terphenyl-d14
 Concen: 5.088 ng
 RT: 19.764 min Scan# 2064
 Delta R.T. -0.005 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion: 244 Resp: 104936

Ion	Ratio	Lower	Upper
244	100		
212	8.9	8.1	12.1
122	14.8	12.8	19.2



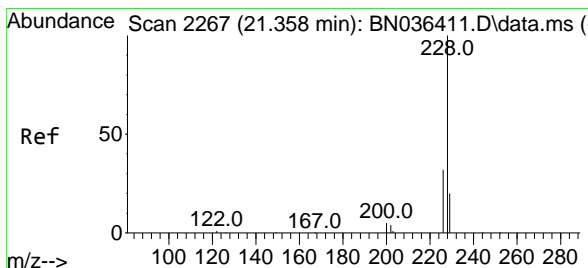
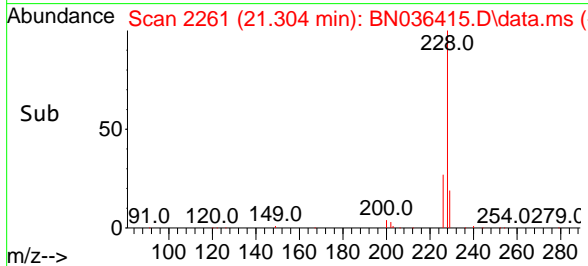
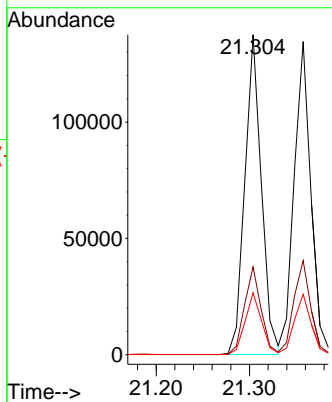
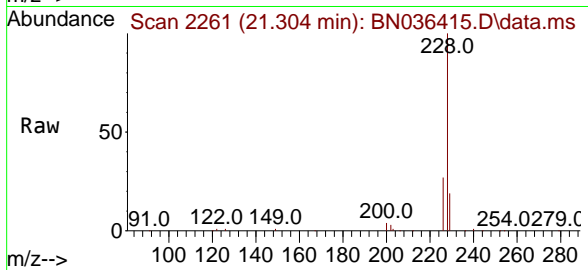


#32
 Benzo(a)anthracene
 Concen: 4.790 ng
 RT: 21.304 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Tgt Ion:228 Resp: 169514

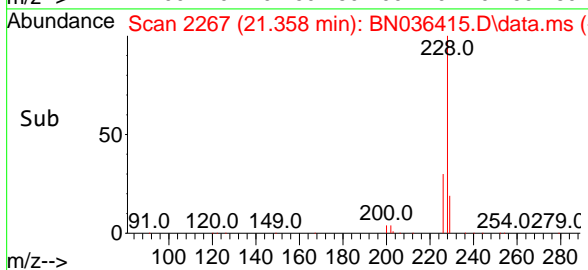
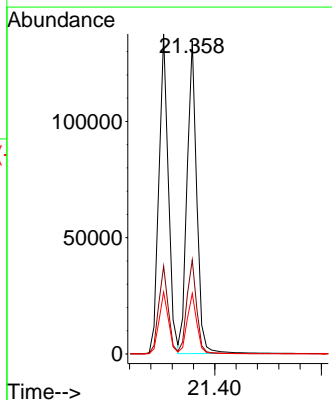
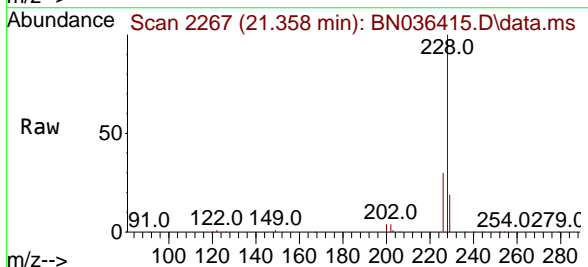
Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.2
229	19.4	16.5	24.7

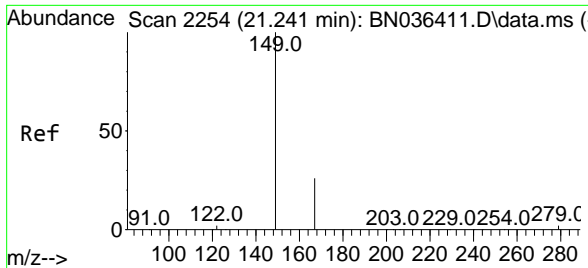


#33
 Chrysene
 Concen: 4.687 ng
 RT: 21.358 min Scan# 2267
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:228 Resp: 170028

Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.5	38.3
229	19.3	16.4	24.6



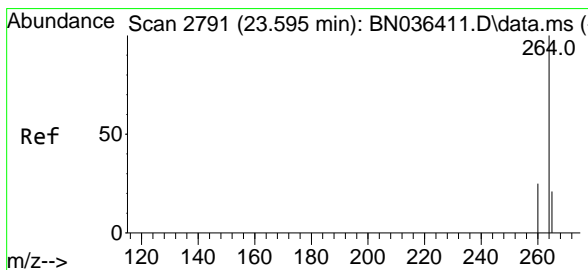
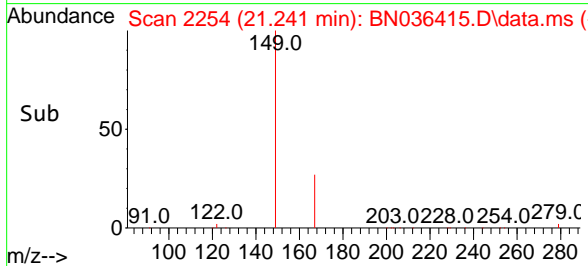
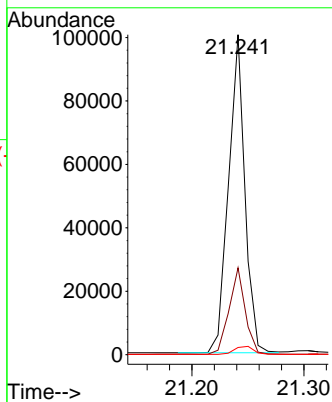
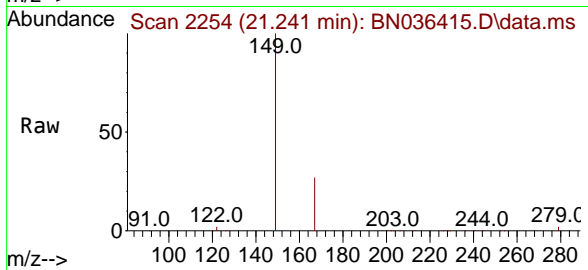


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 5.168 ng
 RT: 21.241 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Tgt Ion:149 Resp: 101929

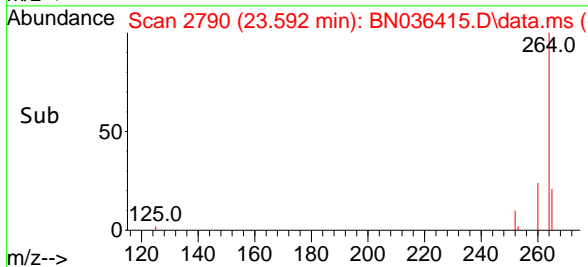
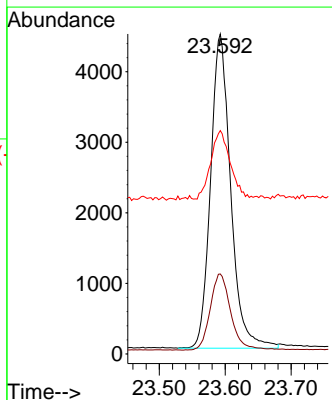
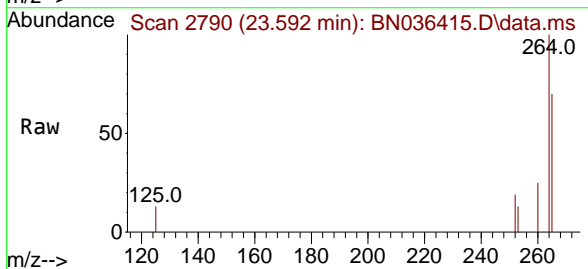
Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.2	31.8
279	2.9	2.7	4.1

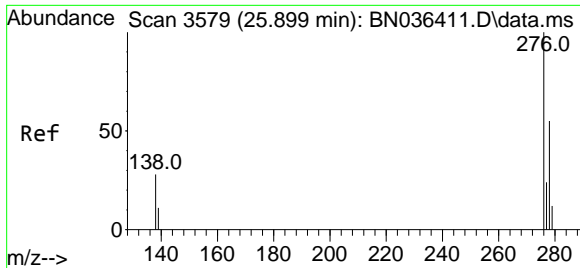


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.592 min Scan# 2790
 Delta R.T. -0.003 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:264 Resp: 9411

Ion	Ratio	Lower	Upper
264	100		
260	25.0	20.9	31.3
265	69.8	60.7	91.1



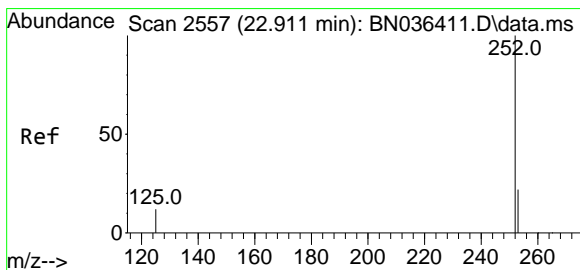
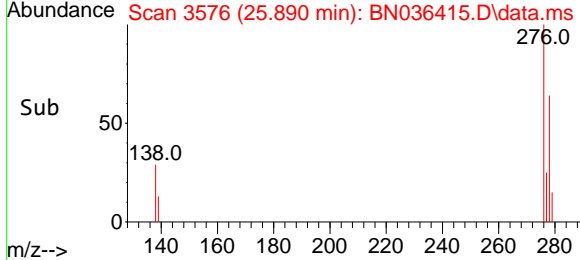
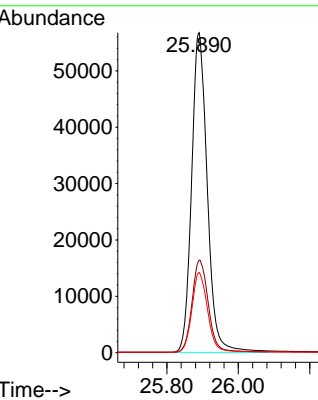
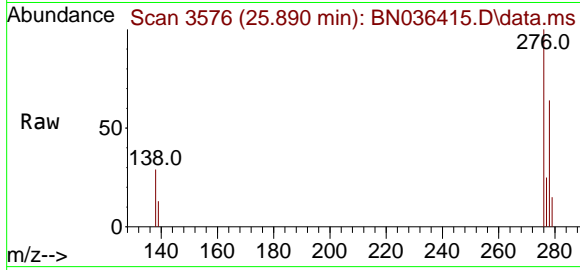


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 4.679 ng
 RT: 25.890 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Tgt Ion: 276 Resp: 172989

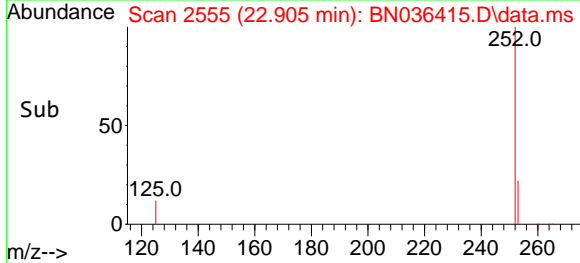
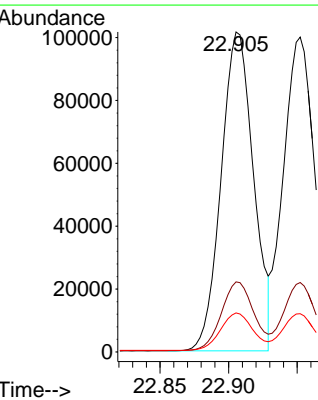
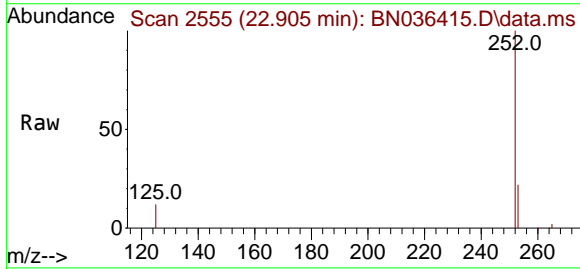
Ion	Ratio	Lower	Upper
276	100		
138	30.0	22.2	33.2
277	25.2	19.8	29.6

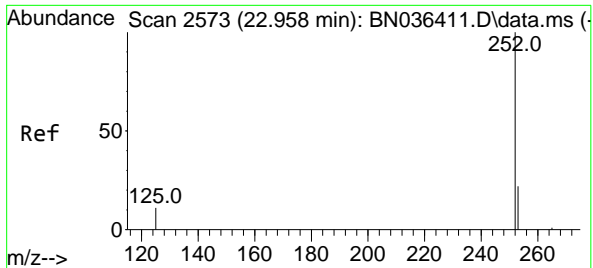


#37
 Benzo(b)fluoranthene
 Concen: 4.986 ng
 RT: 22.905 min Scan# 2555
 Delta R.T. -0.006 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion: 252 Resp: 166596

Ion	Ratio	Lower	Upper
252	100		
253	21.9	21.9	32.9#
125	12.2	15.0	22.6#



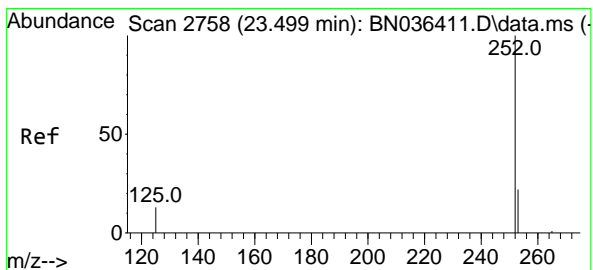
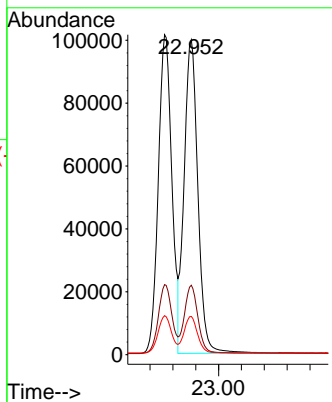
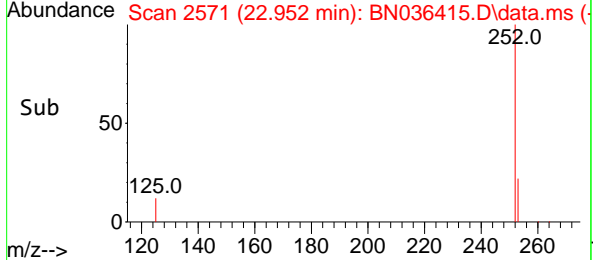
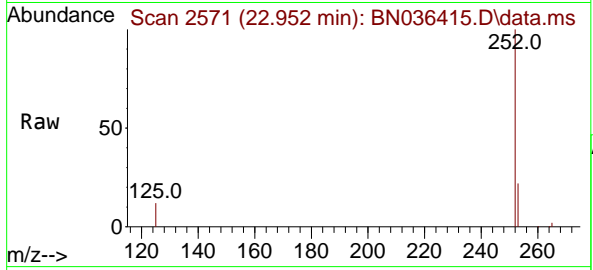


#38
 Benzo(k)fluoranthene
 Concen: 4.879 ng
 RT: 22.952 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

Tgt Ion:252 Resp: 166186

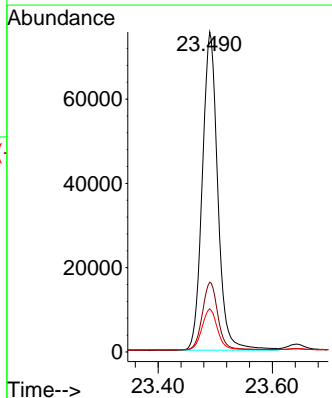
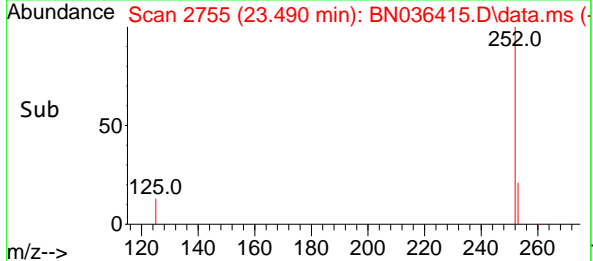
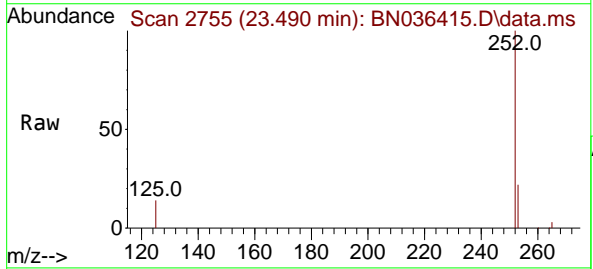
Ion	Ratio	Lower	Upper
252	100		
253	22.0	22.2	33.4#
125	12.1	15.0	22.4#

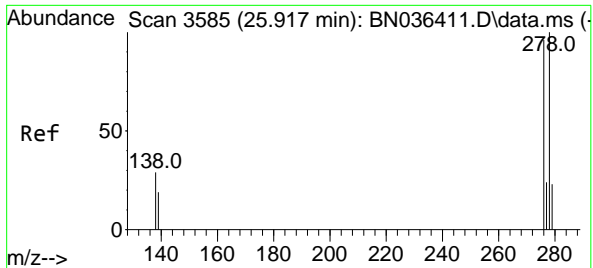


#39
 Benzo(a)pyrene
 Concen: 4.947 ng
 RT: 23.490 min Scan# 2755
 Delta R.T. -0.009 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:252 Resp: 141837

Ion	Ratio	Lower	Upper
252	100		
253	21.8	24.4	36.6#
125	13.5	18.2	27.2#



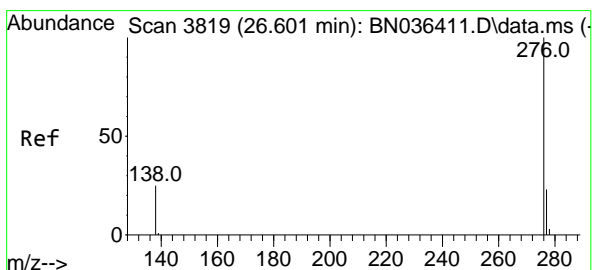
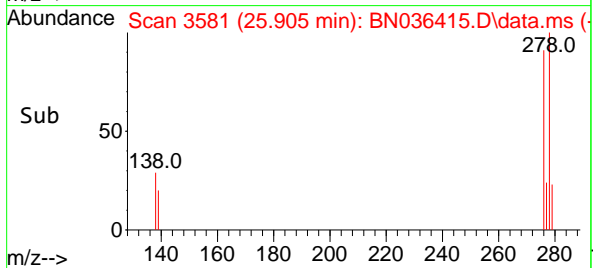
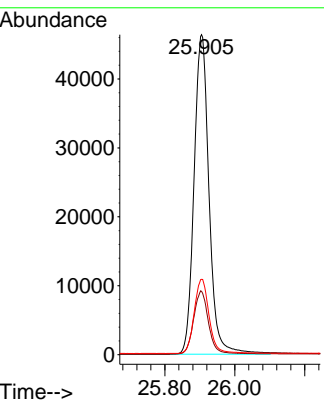
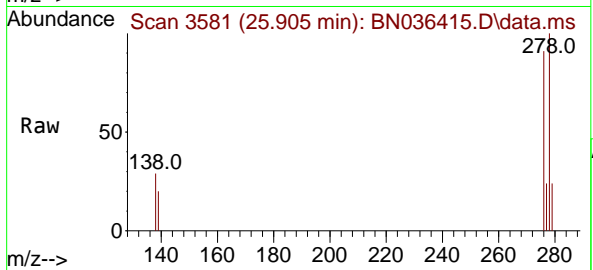


#40
 Dibenzo(a,h)anthracene
 Concen: 4.709 ng
 RT: 25.905 min Scan# 31
 Delta R.T. -0.012 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

Tgt Ion:278 Resp: 138330

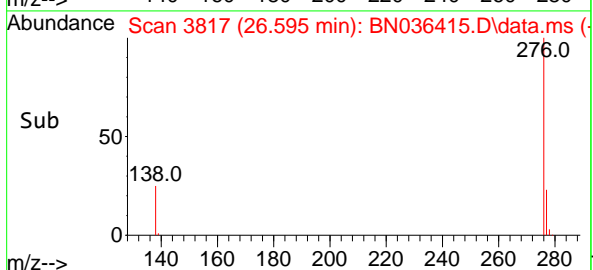
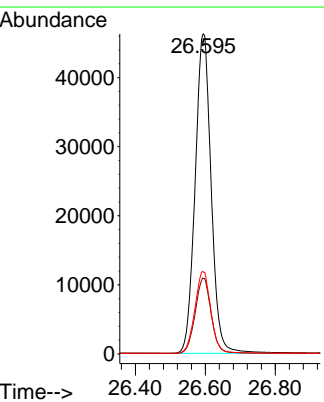
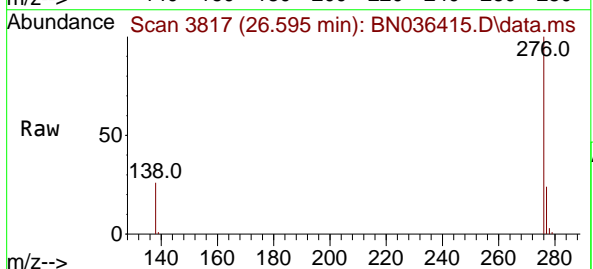
Ion	Ratio	Lower	Upper
278	100		
139	19.8	18.5	27.7
279	23.5	24.8	37.2#



#41
 Benzo(g,h,i)perylene
 Concen: 4.557 ng
 RT: 26.595 min Scan# 3817
 Delta R.T. -0.006 min
 Lab File: BN036415.D
 Acq: 10 Feb 2025 16:00

Tgt Ion:276 Resp: 146932

Ion	Ratio	Lower	Upper
276	100		
277	23.6	20.7	31.1
138	25.5	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

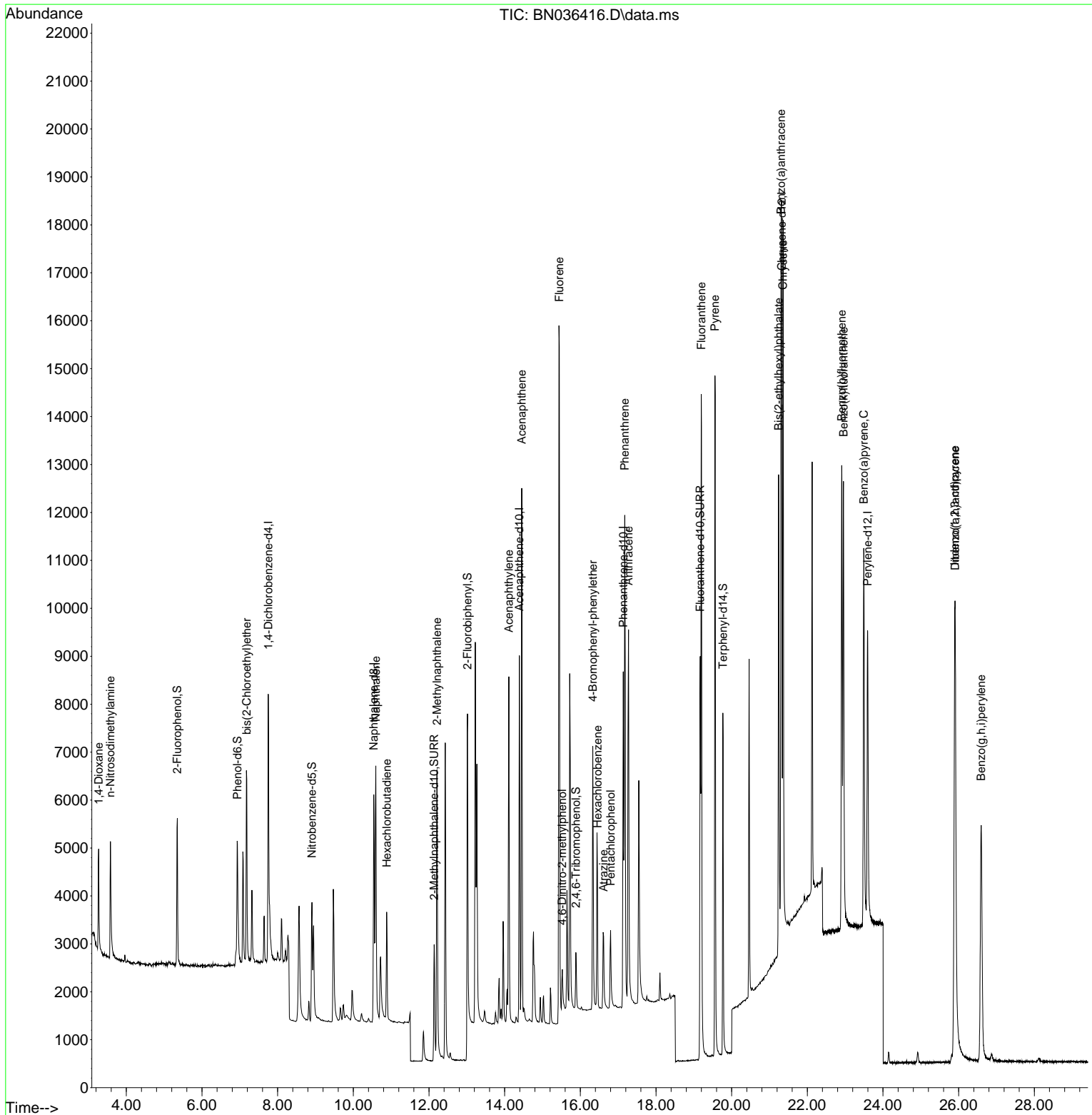
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2722	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6737	0.400	ng	0.00	
13) Acenaphthene-d10	14.388	164	4328	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	9717	0.400	ng	0.00	
29) Chrysene-d12	21.322	240	8903	0.400	ng	0.00	
35) Perylene-d12	23.592	264	8977	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	2386	0.371	ng	0.00	
5) Phenol-d6	6.937	99	2616	0.347	ng	0.00	
8) Nitrobenzene-d5	8.907	82	2386	0.359	ng	0.00	
11) 2-Methylnaphthalene-d10	12.136	152	4026	0.389	ng	0.00	
14) 2,4,6-Tribromophenol	15.882	330	713	0.332	ng	0.00	
15) 2-Fluorobiphenyl	13.019	172	6616	0.407	ng	0.00	
27) Fluoranthene-d10	19.169	212	10243	0.379	ng	0.00	
31) Terphenyl-d14	19.768	244	7744	0.407	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	1221	0.410	ng	98	
3) n-Nitrosodimethylamine	3.579	42	1993	0.385	ng	96	
6) bis(2-Chloroethyl)ether	7.183	93	3230	0.409	ng	96	
9) Naphthalene	10.594	128	7554	0.389	ng	99	
10) Hexachlorobutadiene	10.882	225	1910	0.404	ng	# 99	
12) 2-Methylnaphthalene	12.212	142	5146	0.404	ng	98	
16) Acenaphthylene	14.110	152	8061	0.422	ng	100	
17) Acenaphthene	14.452	154	5199	0.407	ng	99	
18) Fluorene	15.446	166	7222	0.397	ng	98	
20) 4,6-Dinitro-2-methylph...	15.522	198	664	0.348	ng	92	
21) 4-Bromophenyl-phenylether	16.329	248	2290	0.395	ng	96	
22) Hexachlorobenzene	16.453	284	2904	0.406	ng	97	
23) Atrazine	16.615	200	1916	0.396	ng	98	
24) Pentachlorophenol	16.801	266	1075	0.316	ng	99	
25) Phenanthrene	17.173	178	11446	0.408	ng	100	
26) Anthracene	17.273	178	10171	0.411	ng	99	
28) Fluoranthene	19.197	202	13415	0.389	ng	100	
30) Pyrene	19.559	202	13881	0.405	ng	100	
32) Benzo(a)anthracene	21.304	228	11819	0.403	ng	99	
33) Chrysene	21.357	228	13425	0.423	ng	98	
34) Bis(2-ethylhexyl)phtha...	21.241	149	6985	0.383	ng	98	
36) Indeno(1,2,3-cd)pyrene	25.896	276	13738	0.438	ng	100	
37) Benzo(b)fluoranthene	22.908	252	12283	0.415	ng	97	
38) Benzo(k)fluoranthene	22.955	252	13099	0.430	ng	97	
39) Benzo(a)pyrene	23.493	252	11703	0.454	ng	95	
40) Dibenzo(a,h)anthracene	25.908	278	10585	0.427	ng	96	
41) Benzo(g,h,i)perylene	26.595	276	10921	0.389	ng	98	

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

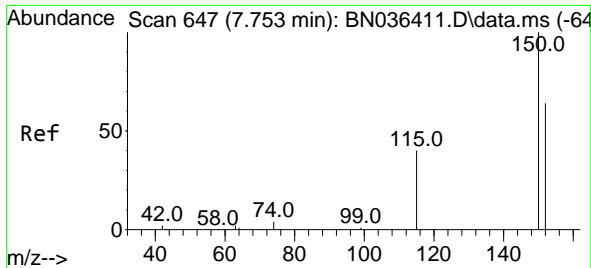
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 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration



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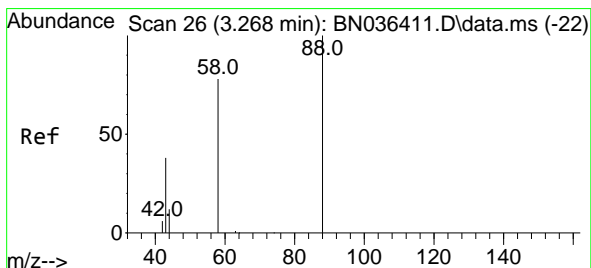
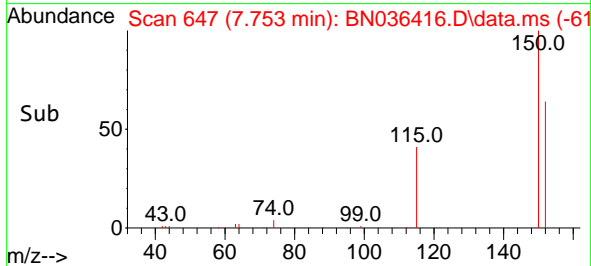
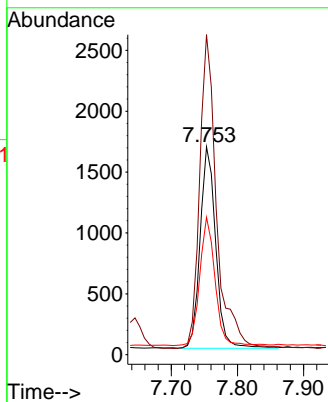
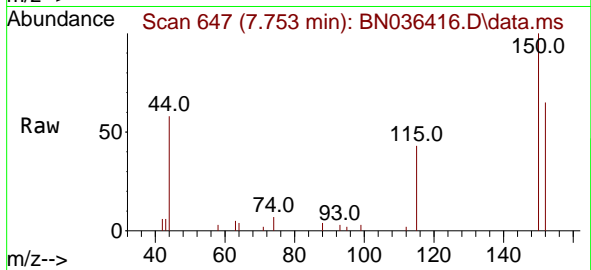


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Instrument :
BNA_N
ClientSampleId :
ICVBN021025

Tgt Ion:152 Resp: 2722

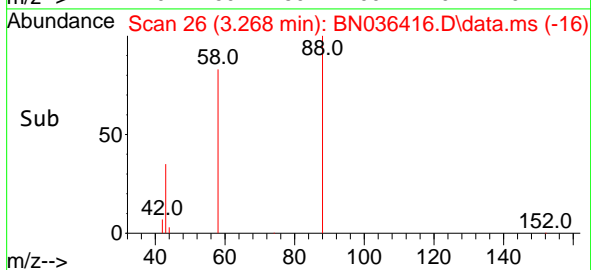
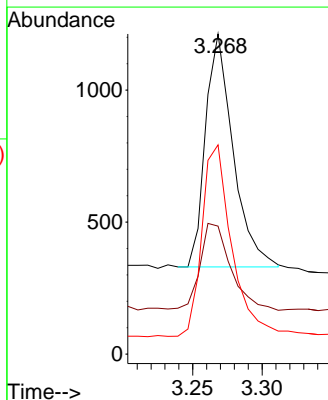
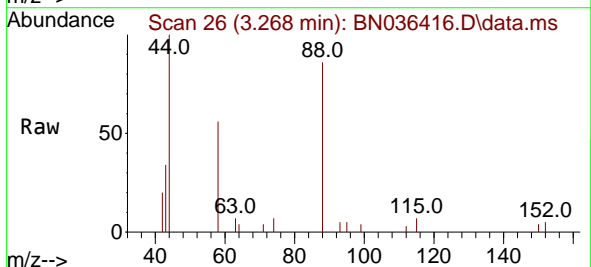
Ion	Ratio	Lower	Upper
152	100		
150	154.0	123.7	185.5
115	66.1	52.5	78.7

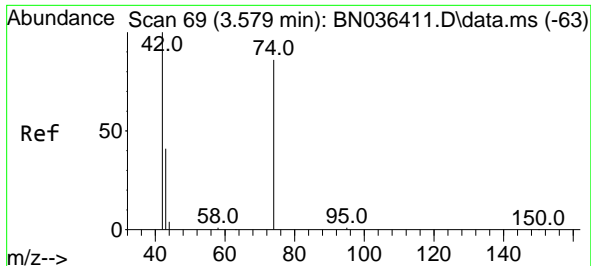


#2
1,4-Dioxane
Concen: 0.410 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion: 88 Resp: 1221

Ion	Ratio	Lower	Upper
88	100		
43	41.8	33.7	50.5
58	89.2	68.9	103.3

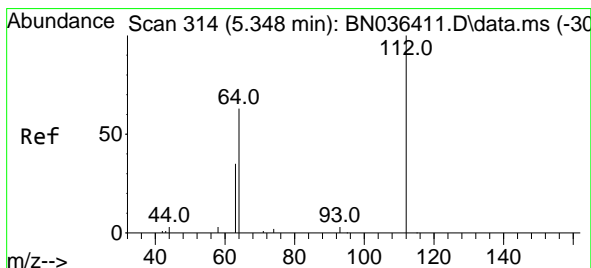
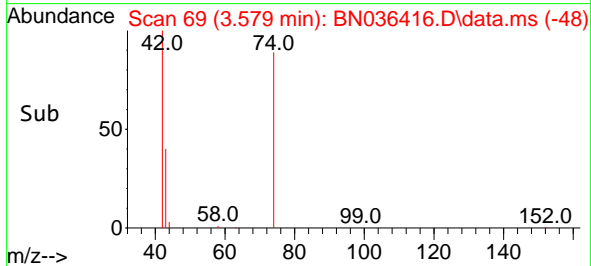
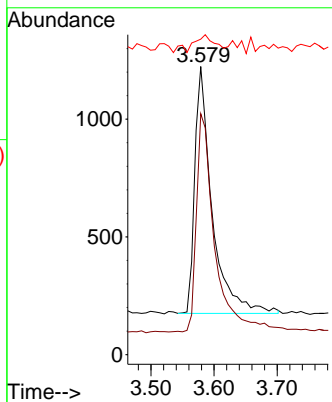
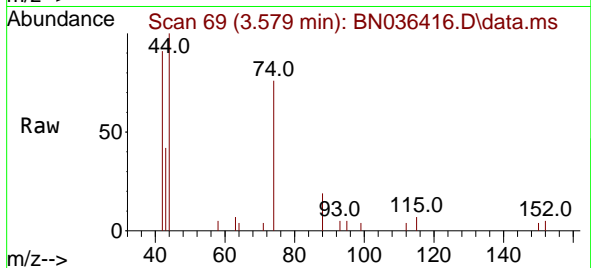




#3
 n-Nitrosodimethylamine
 Concen: 0.385 ng
 RT: 3.579 min Scan# 69
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

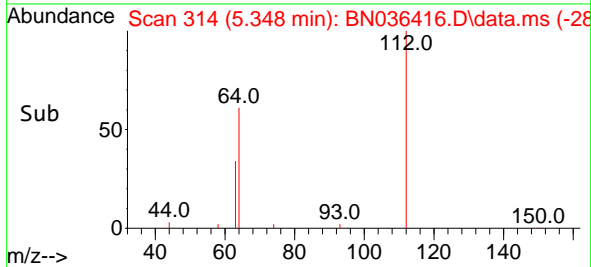
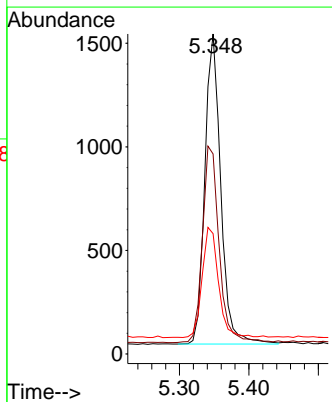
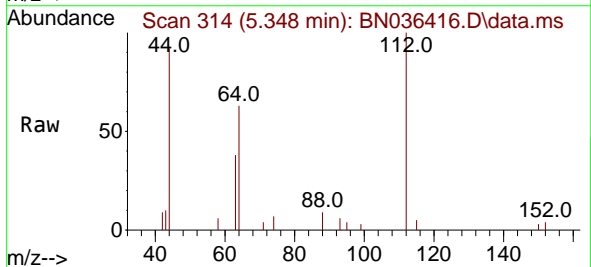
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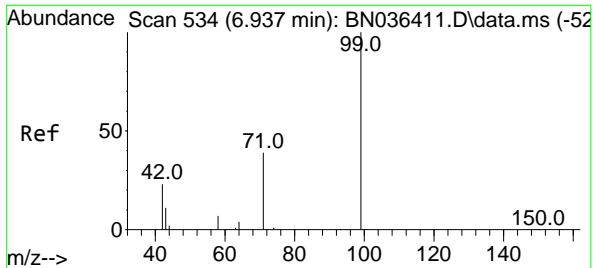
Tgt Ion	Resp	Ion Ratio	Lower	Upper
42	1993	100		
74		93.5	71.8	107.6
44		7.9	7.8	11.6



#4
 2-Fluorophenol
 Concen: 0.371 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
112	2386	100		
64		66.4	53.4	80.0
63		36.3	30.3	45.5

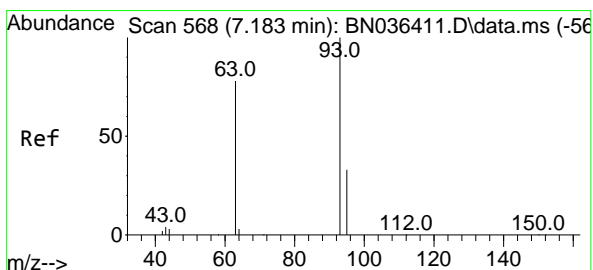
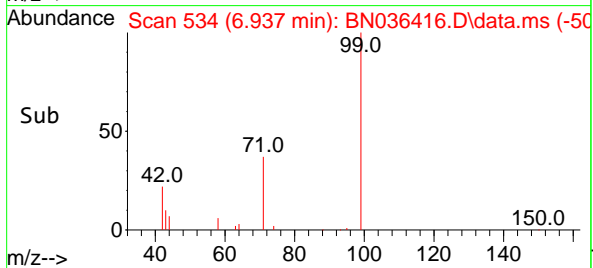
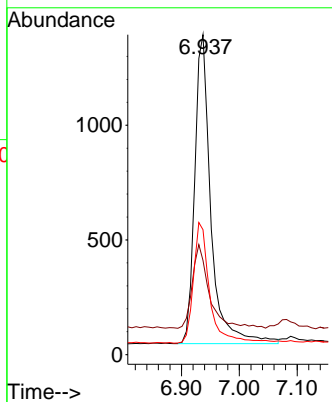
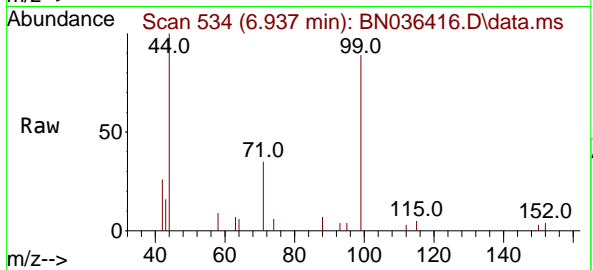




#5
 Phenol-d6
 Concen: 0.347 ng
 RT: 6.937 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

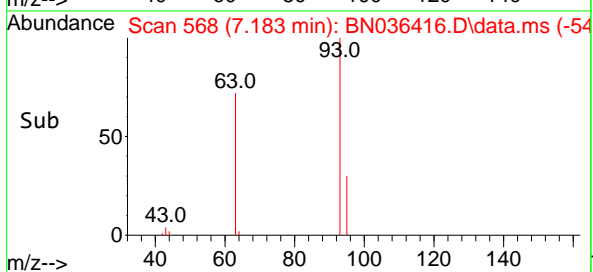
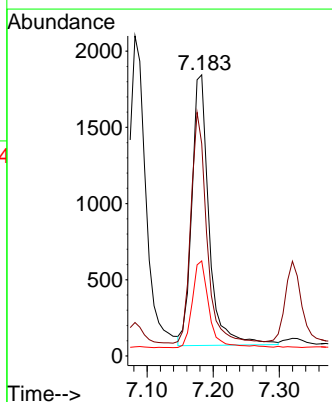
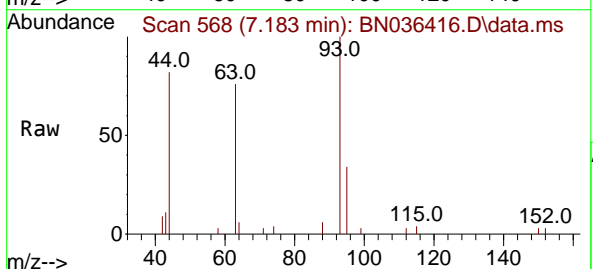
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

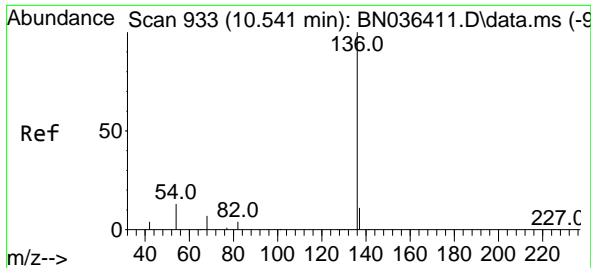
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	2616	100		
42		28.4	21.7	32.5
71		39.6	32.6	49.0



#6
 bis(2-Chloroethyl)ether
 Concen: 0.409 ng
 RT: 7.183 min Scan# 568
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	3230	100		
63		78.7	66.3	99.5
95		31.0	26.2	39.4



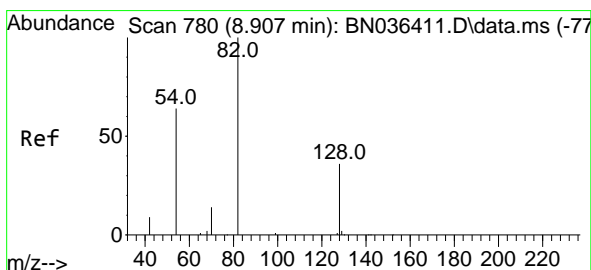
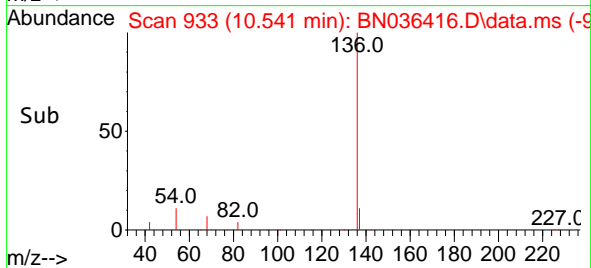
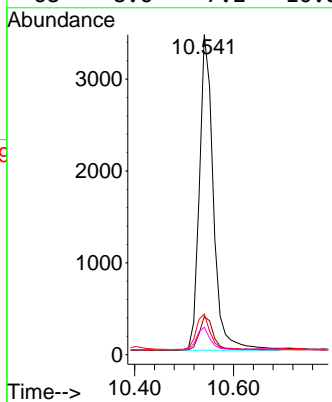
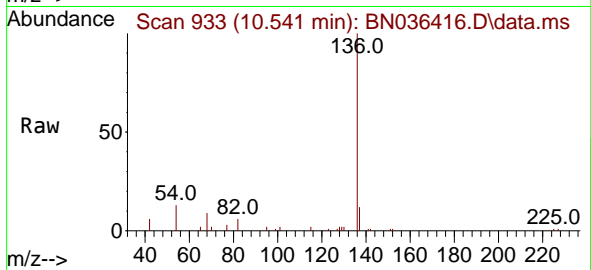


#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument : BNA_N
 ClientSampleId : ICVBN021025

Tgt Ion: 136 Resp: 6737

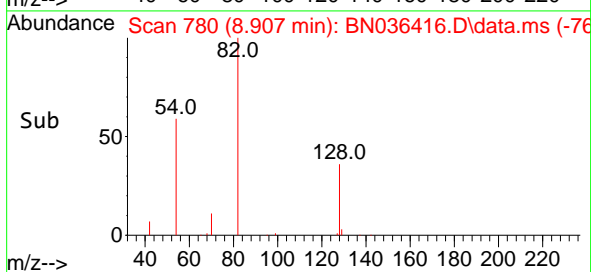
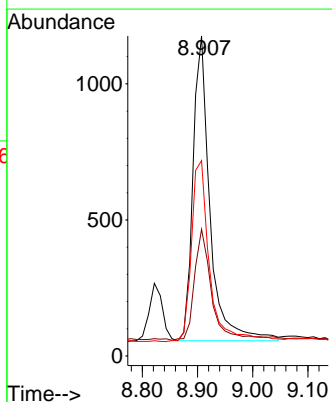
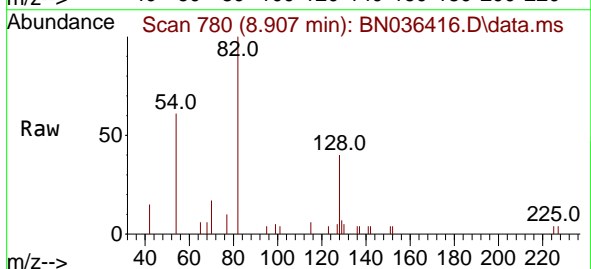
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	12.7	11.8	17.6
68	8.6	7.2	10.8

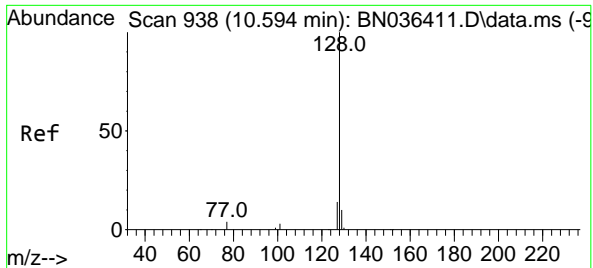


#8
 Nitrobenzene-d5
 Concen: 0.359 ng
 RT: 8.907 min Scan# 780
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion: 82 Resp: 2386

Ion	Ratio	Lower	Upper
82	100		
128	39.6	31.9	47.9
54	61.1	53.1	79.7

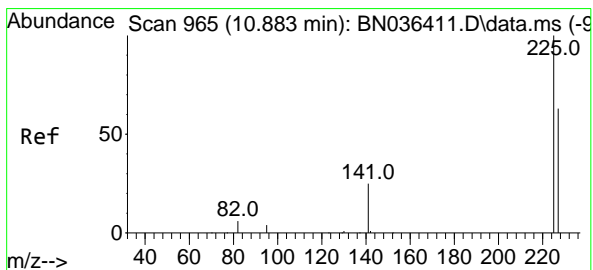
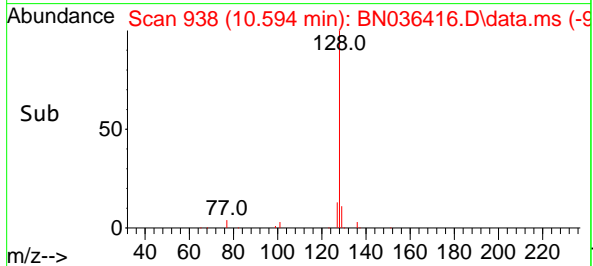
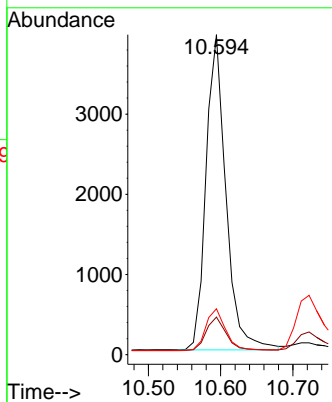
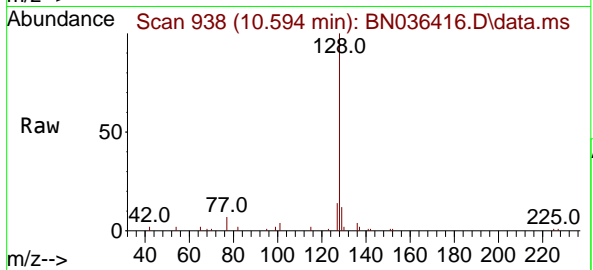




#9
Naphthalene
Concen: 0.389 ng
RT: 10.594 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

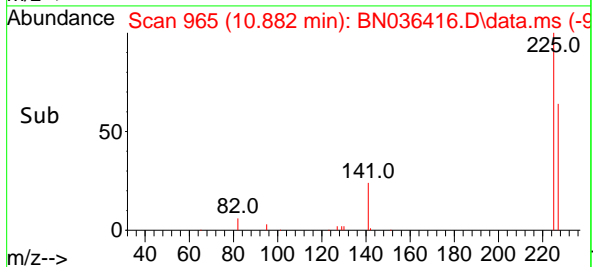
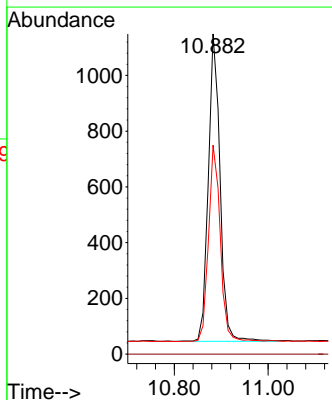
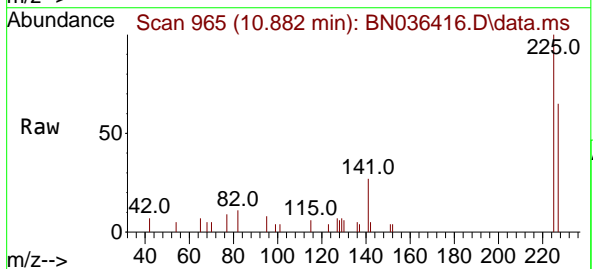
Instrument : BNA_N
Client Sample Id : ICVBN021025

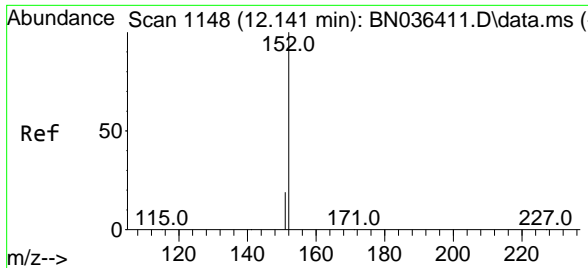
Tgt Ion	Resp	Lower	Upper
128	7554	100	
129	11.8	9.6	14.4
127	14.3	12.0	18.0



#10
Hexachlorobutadiene
Concen: 0.404 ng
RT: 10.882 min Scan# 965
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion	Resp	Lower	Upper
225	1910	100	
223	0.0	0.0	0.0
227	64.6	50.9	76.3

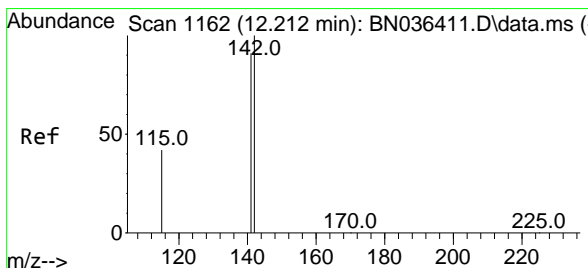
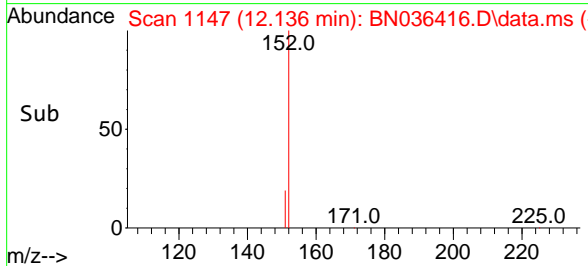
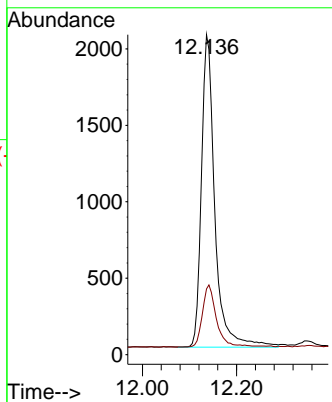
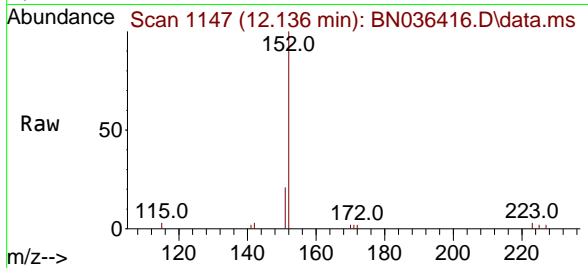




#11
 2-Methylnaphthalene-d10
 Concen: 0.389 ng
 RT: 12.136 min Scan# 1147
 Delta R.T. -0.005 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

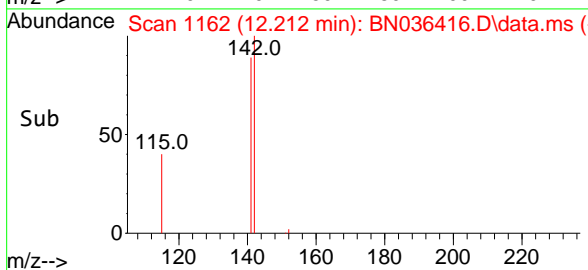
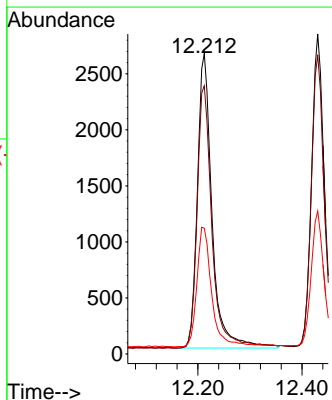
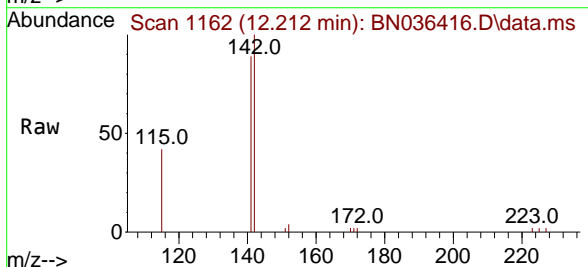
Instrument : BNA_N
 ClientSampleId : ICVBN021025

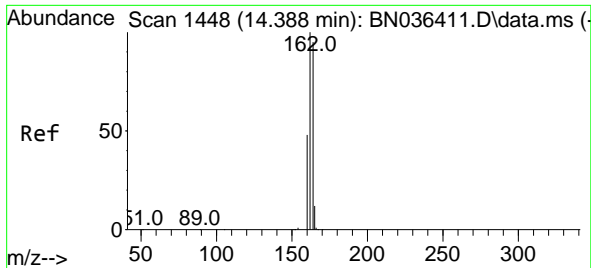
Tgt Ion:152 Resp: 4026
 Ion Ratio Lower Upper
 152 100
 151 20.9 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.404 ng
 RT: 12.212 min Scan# 1162
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion:142 Resp: 5146
 Ion Ratio Lower Upper
 142 100
 141 89.3 72.8 109.2
 115 41.9 35.5 53.3



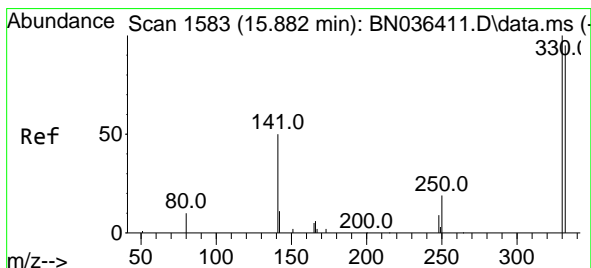
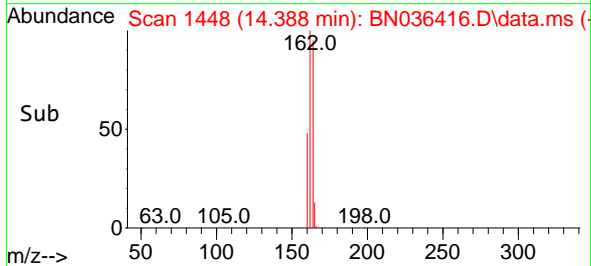
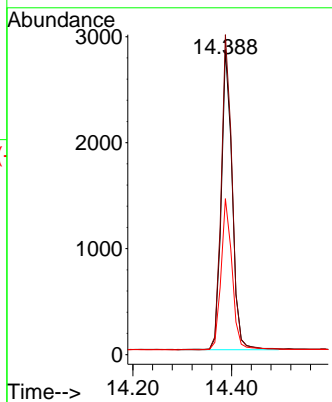
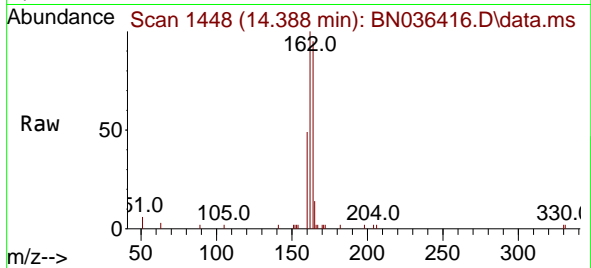


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.388 min Scan# 1448
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Tgt Ion:164 Resp: 4328

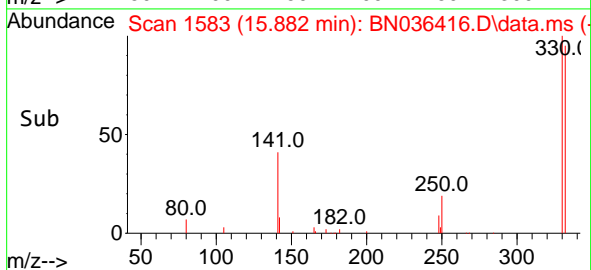
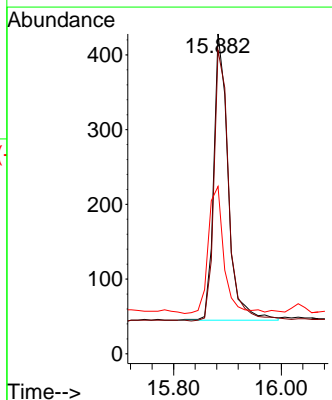
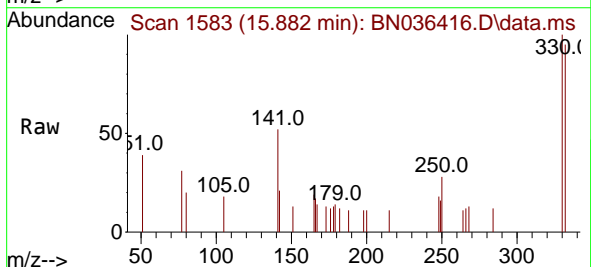
Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.1	126.1
160	51.1	41.4	62.0

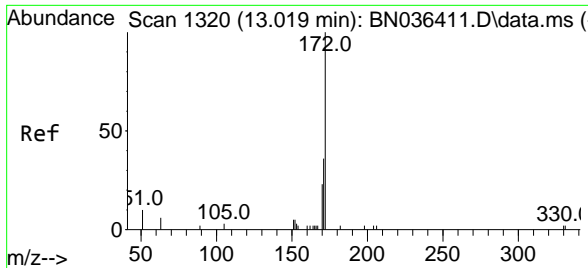


#14
 2,4,6-Tribromophenol
 Concen: 0.332 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion:330 Resp: 713

Ion	Ratio	Lower	Upper
330	100		
332	97.6	76.6	114.8
141	48.9	37.8	56.8



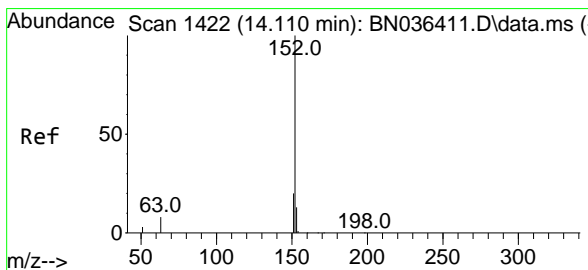
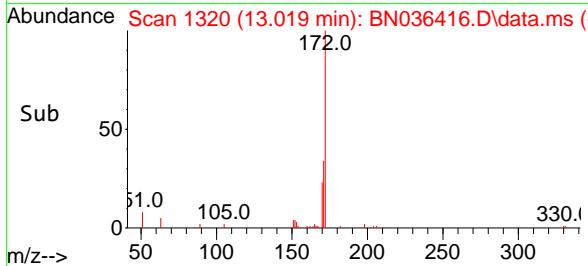
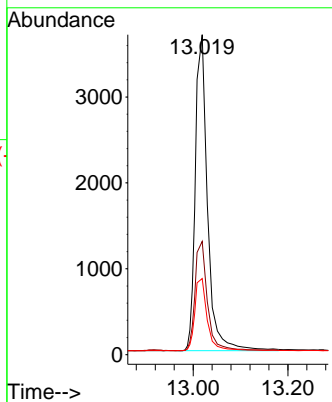
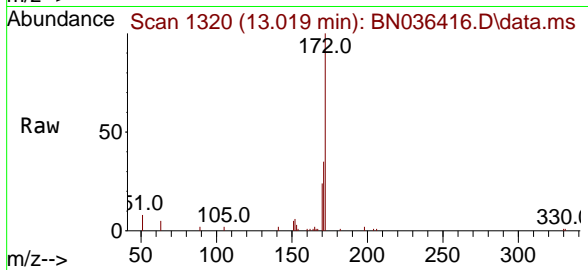


#15
 2-Fluorobiphenyl
 Concen: 0.407 ng
 RT: 13.019 min Scan# 1320
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument : BNA_N
 ClientSampleId : ICVBN021025

Tgt Ion:172 Resp: 6616

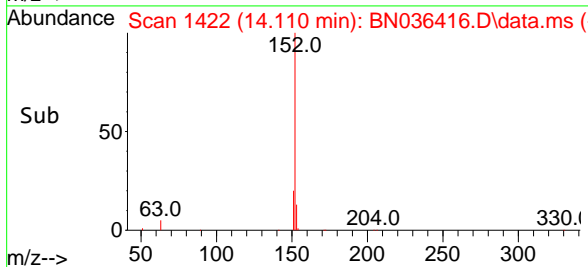
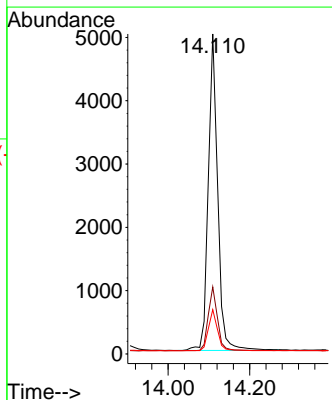
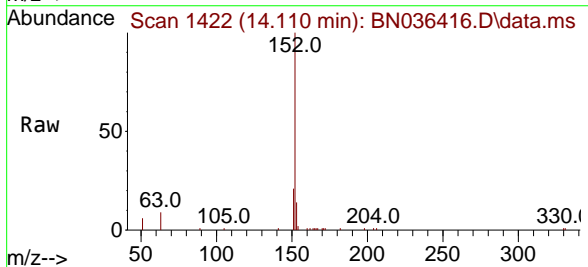
Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.6	44.4
170	23.8	19.8	29.6

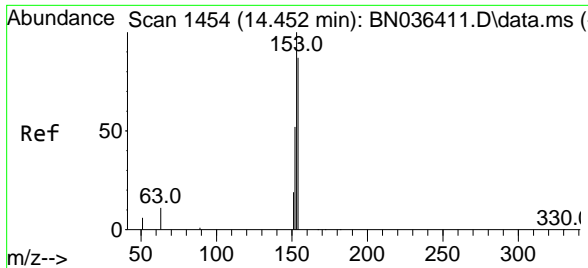


#16
 Acenaphthylene
 Concen: 0.422 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion:152 Resp: 8061

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.9	10.2	15.2



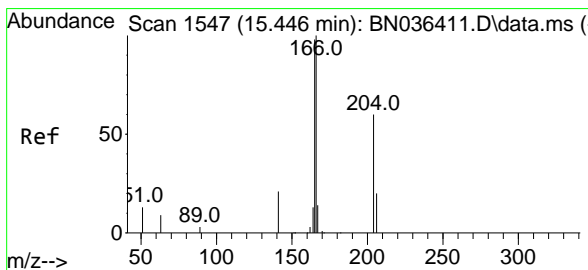
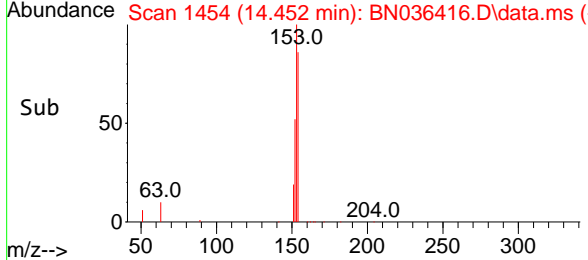
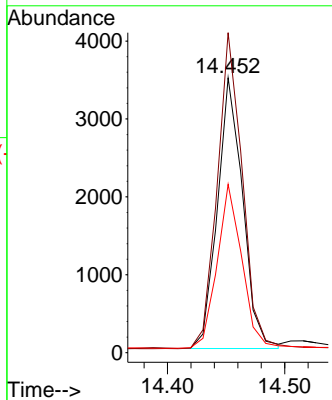
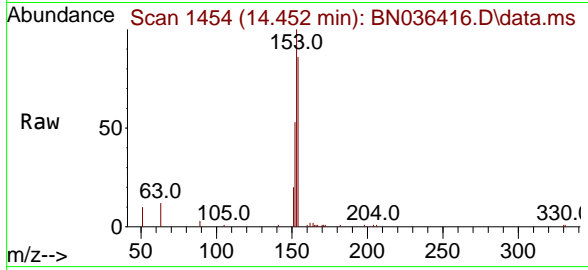


#17
 Acenaphthene
 Concen: 0.407 ng
 RT: 14.452 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Tgt Ion:154 Resp: 5199

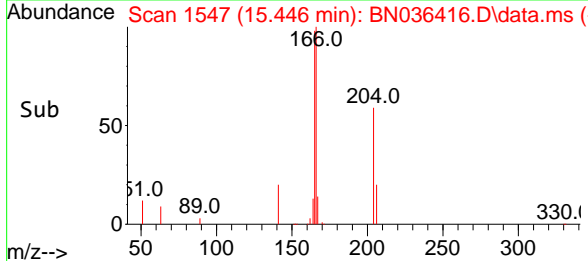
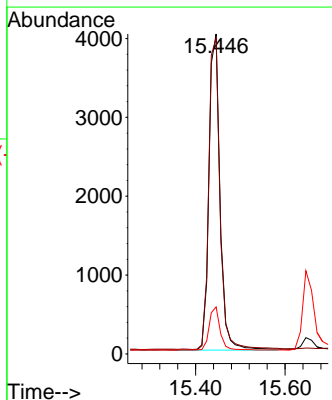
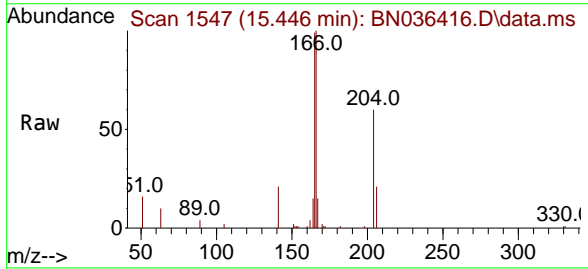
Ion	Ratio	Lower	Upper
154	100		
153	117.1	93.3	139.9
152	60.5	48.8	73.2

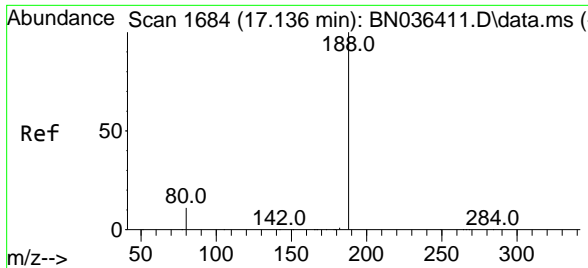


#18
 Fluorene
 Concen: 0.397 ng
 RT: 15.446 min Scan# 1547
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion:166 Resp: 7222

Ion	Ratio	Lower	Upper
166	100		
165	101.4	79.5	119.3
167	13.7	10.4	15.6



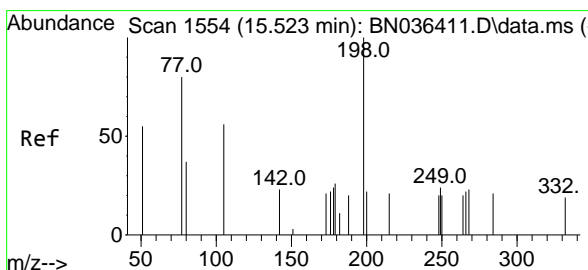
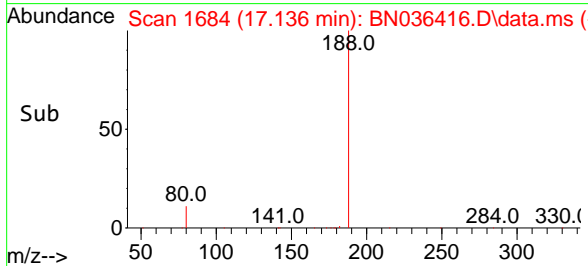
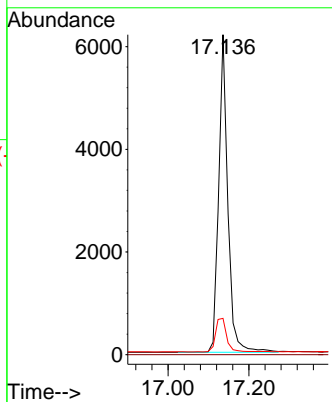
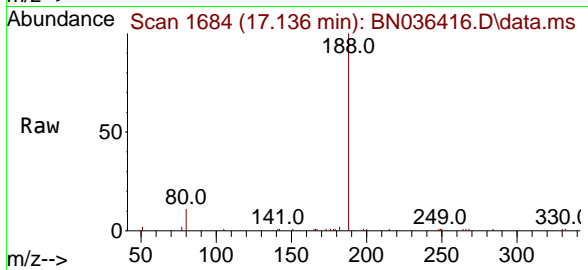


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 1684
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument : BNA_N
 ClientSampleId : ICVBN021025

Tgt Ion:188 Resp: 9717

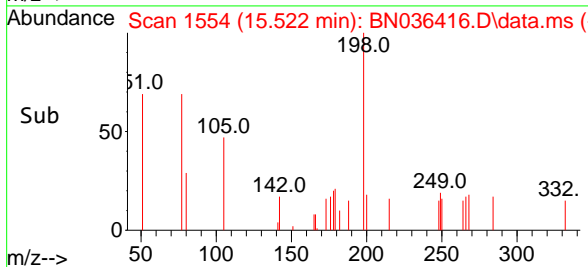
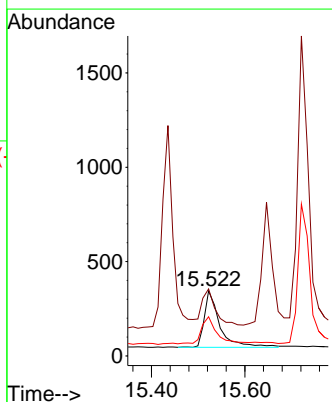
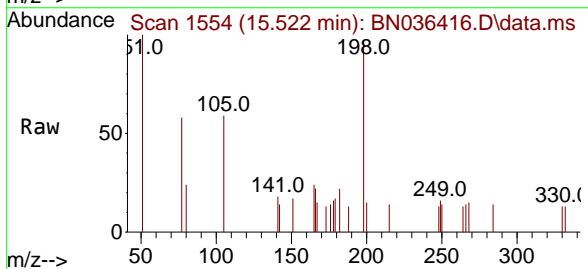
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	9.8	14.6

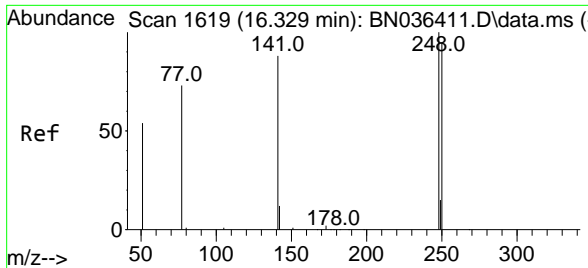


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.348 ng
 RT: 15.522 min Scan# 1554
 Delta R.T. -0.001 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion:198 Resp: 664

Ion	Ratio	Lower	Upper
198	100		
51	103.2	86.6	129.8
105	60.5	57.5	86.3





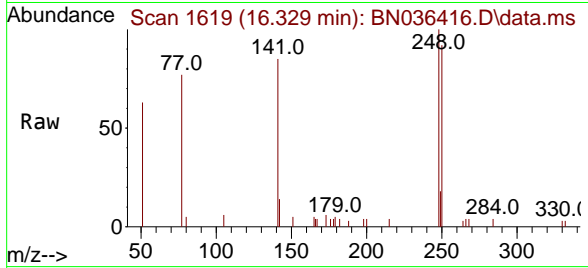
#21
 4-Bromophenyl-phenylether
 Concen: 0.395 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

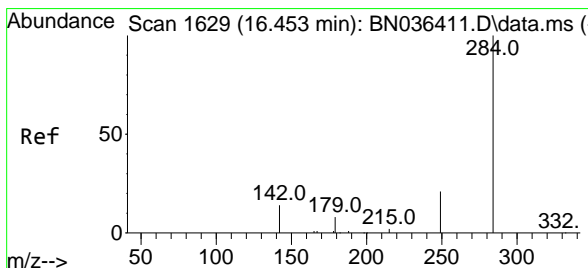
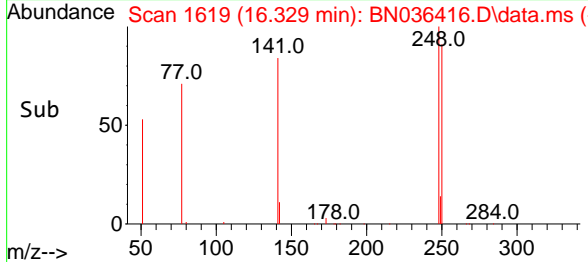
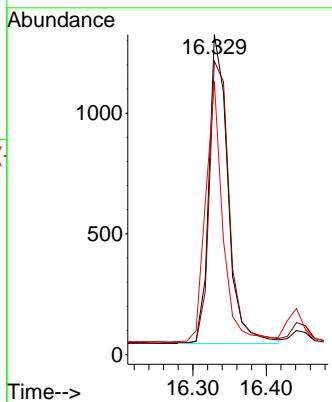
ClientSampleId :

ICVBN021025



Tgt Ion:248 Resp: 2290

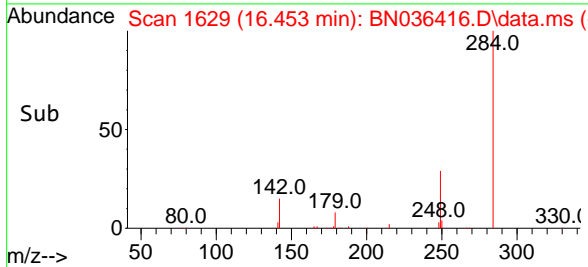
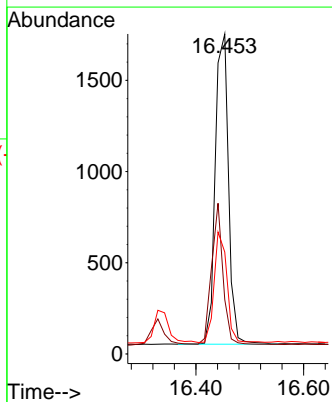
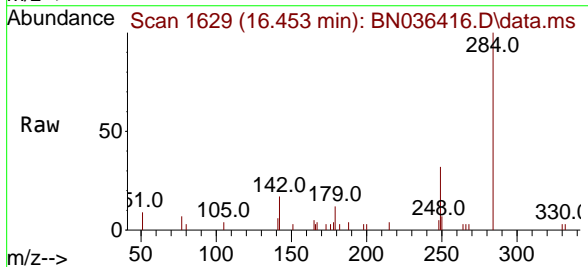
Ion	Ratio	Lower	Upper
248	100		
250	91.7	76.1	114.1
141	85.4	71.7	107.5

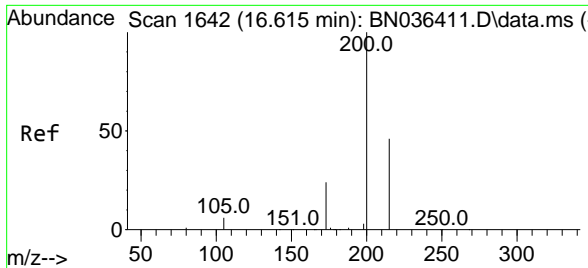


#22
 Hexachlorobenzene
 Concen: 0.406 ng
 RT: 16.453 min Scan# 1629
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion:284 Resp: 2904

Ion	Ratio	Lower	Upper
284	100		
142	39.4	33.4	50.0
249	34.2	28.6	43.0

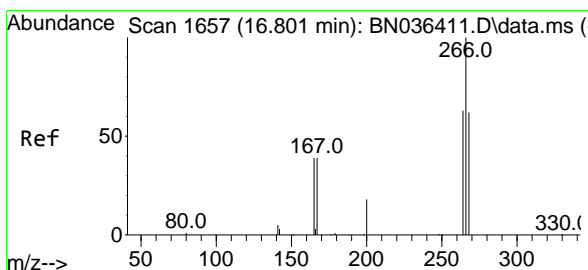
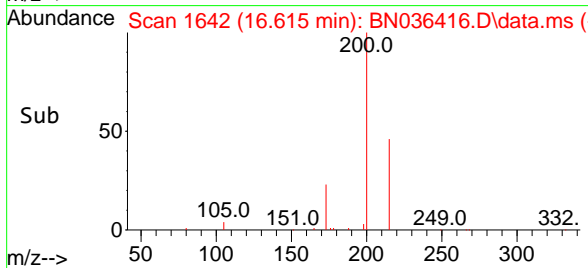
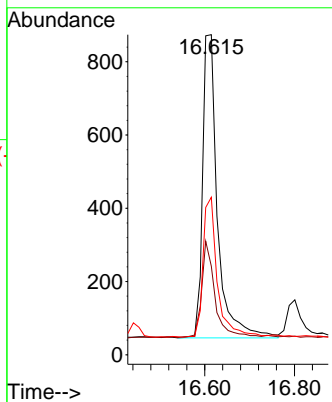
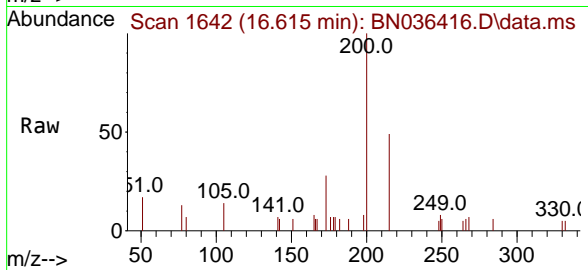




#23
 Atrazine
 Concen: 0.396 ng
 RT: 16.615 min Scan# 1642
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

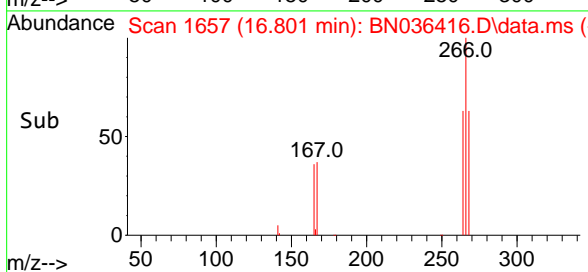
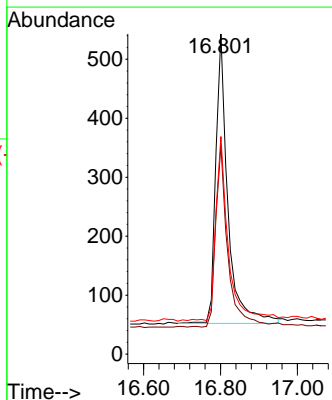
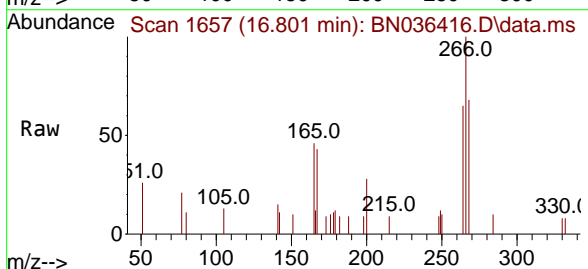
Instrument : BNA_N
 ClientSampleId : ICVBN021025

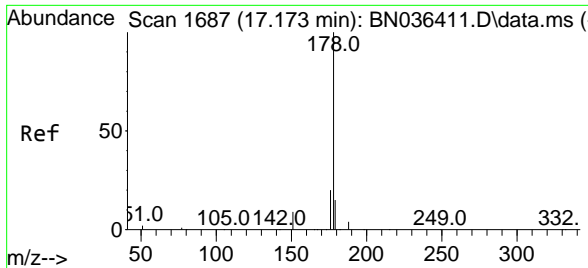
Tgt Ion	Resp	Lower	Upper
200	1916	100	
173	27.7	23.2	34.8
215	49.2	40.0	60.0



#24
 Pentachlorophenol
 Concen: 0.316 ng
 RT: 16.801 min Scan# 1657
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion	Resp	Lower	Upper
266	1075	100	
264	62.2	50.6	76.0
268	63.9	51.9	77.9

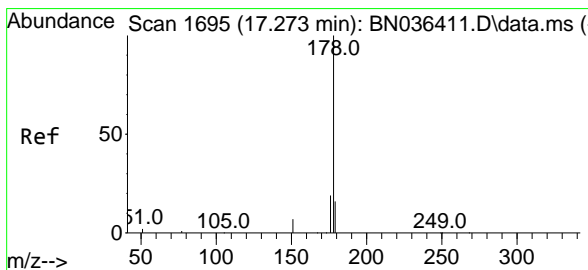
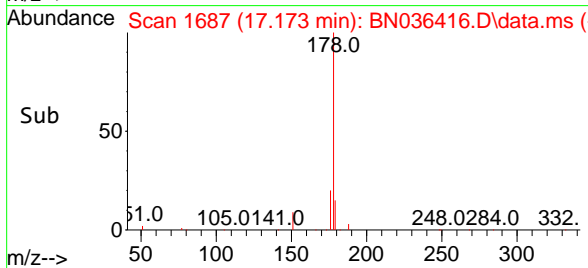
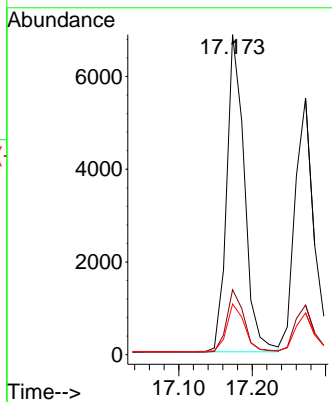
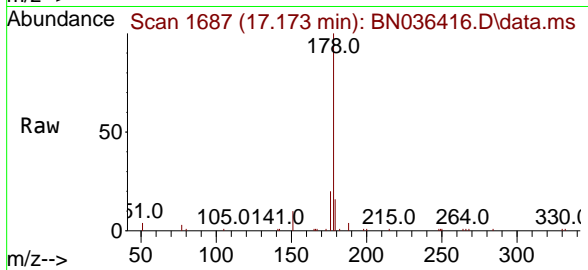




#25
 Phenanthrene
 Concen: 0.408 ng
 RT: 17.173 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

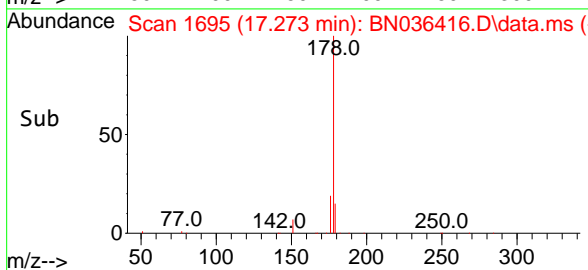
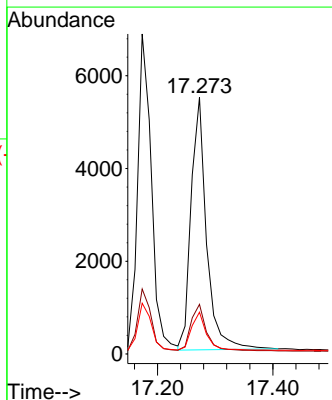
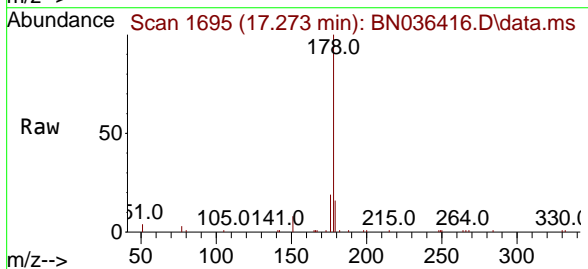
Instrument : BNA_N
 Client Sample Id : ICVBN021025

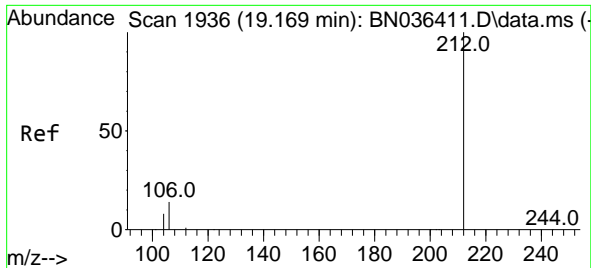
Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	11446	100		
176	19.5	15.7	15.7	23.5
179	15.3	12.4	12.4	18.6



#26
 Anthracene
 Concen: 0.411 ng
 RT: 17.273 min Scan# 1695
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	10171	100		
176	18.8	14.9	14.9	22.3
179	15.2	12.4	12.4	18.6



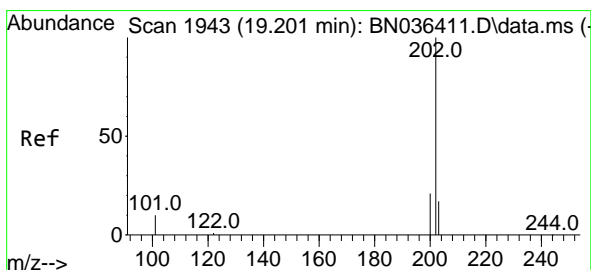
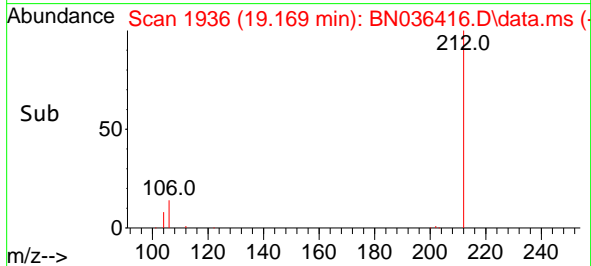
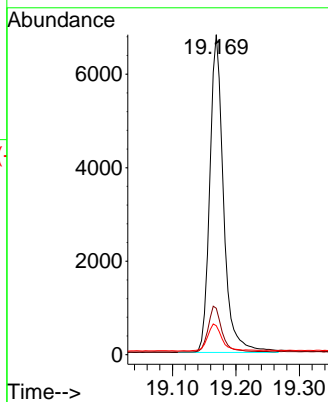
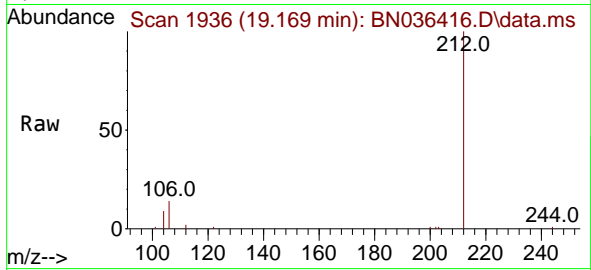


#27
 Fluoranthene-d10
 Concen: 0.379 ng
 RT: 19.169 min Scan# 1936
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument : BNA_N
 ClientSampleId : ICVBN021025

Tgt Ion:212 Resp: 10243

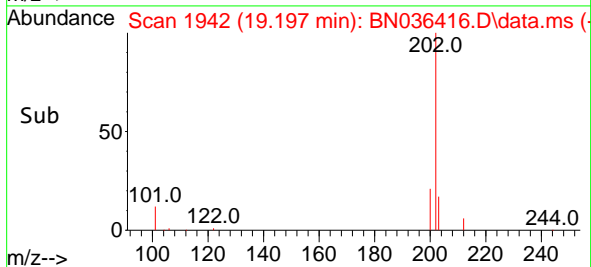
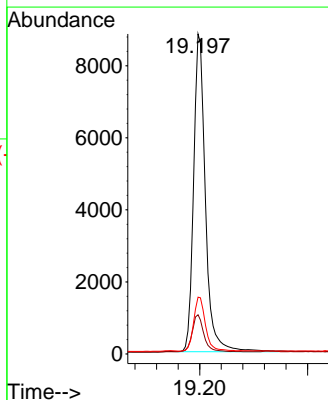
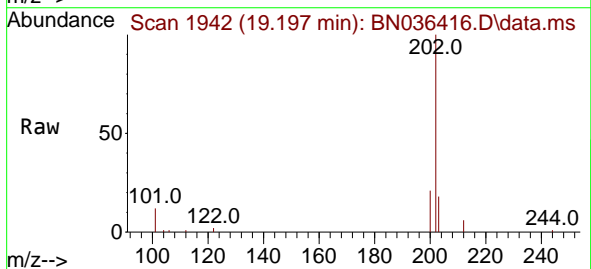
Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.5	17.3
104	8.6	7.1	10.7

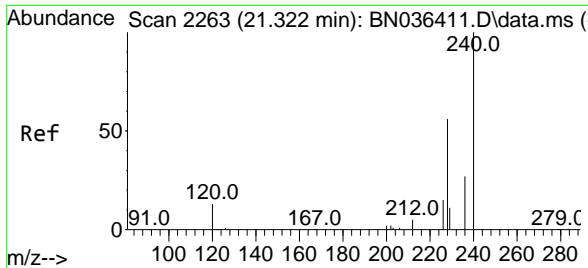


#28
 Fluoranthene
 Concen: 0.389 ng
 RT: 19.197 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion:202 Resp: 13415

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.2	13.8
203	16.9	13.4	20.0



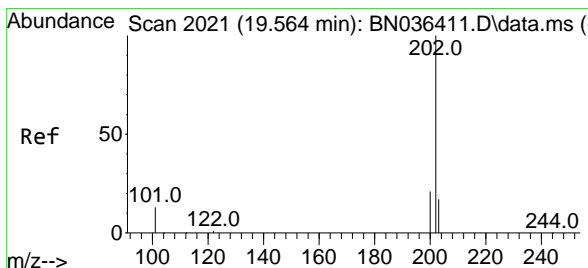
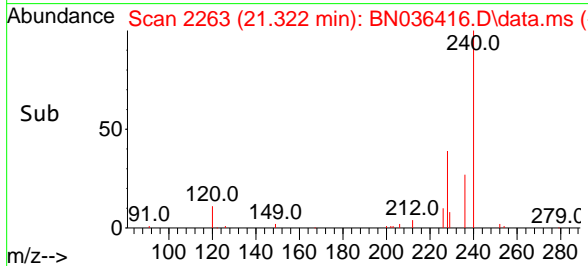
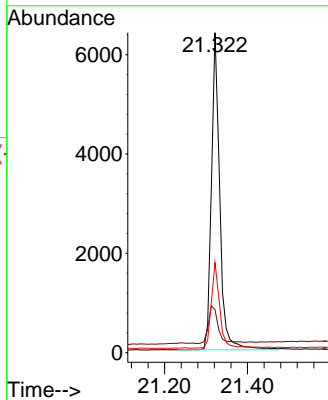
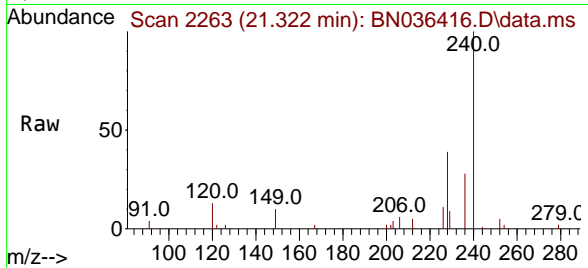


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Tgt Ion:240 Resp: 8903

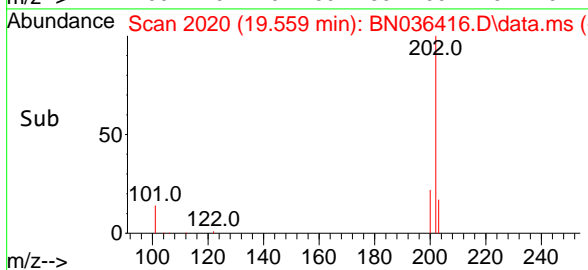
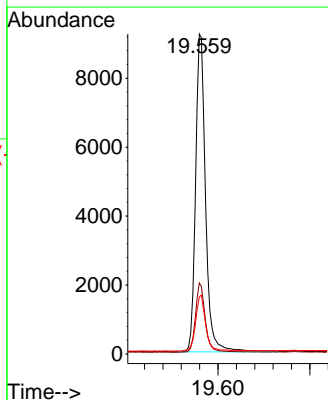
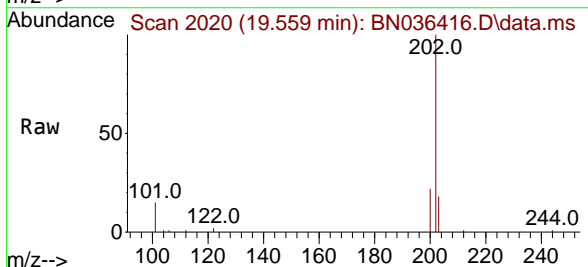
Ion	Ratio	Lower	Upper
240	100		
120	13.4	13.3	19.9
236	28.2	23.0	34.6

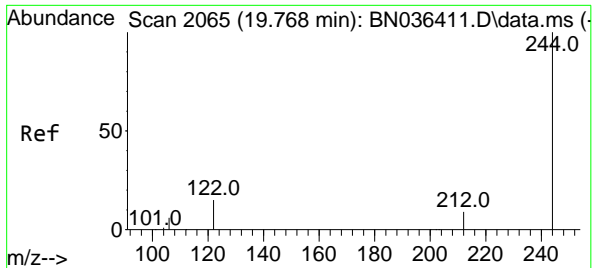


#30
 Pyrene
 Concen: 0.405 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion:202 Resp: 13881

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.4	13.9	20.9



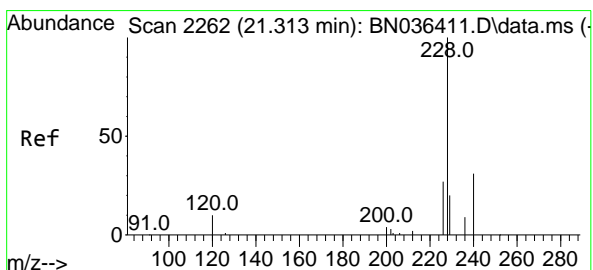
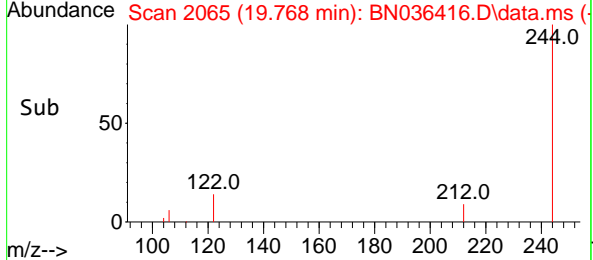
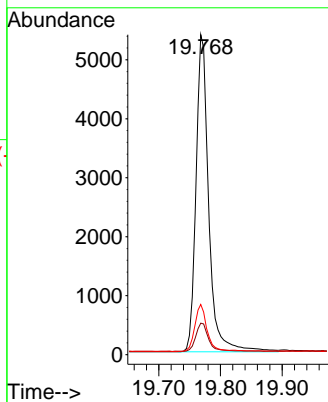
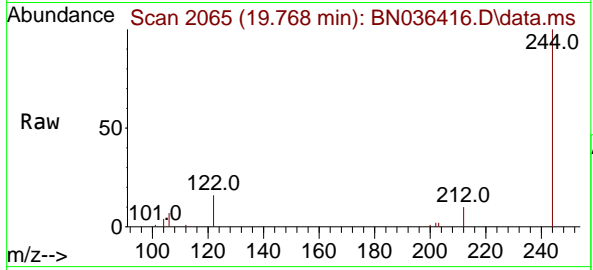


#31
 Terphenyl-d14
 Concen: 0.407 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument : BNA_N
 Client Sample Id : ICVBN021025

Tgt Ion: 244 Resp: 7744

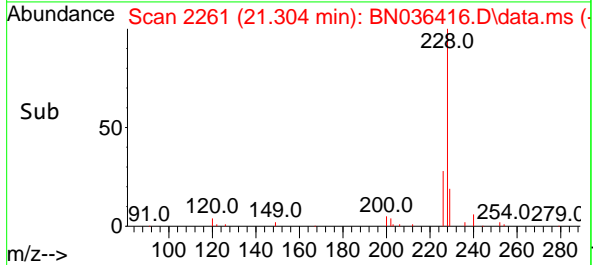
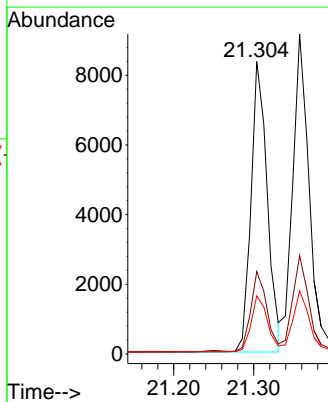
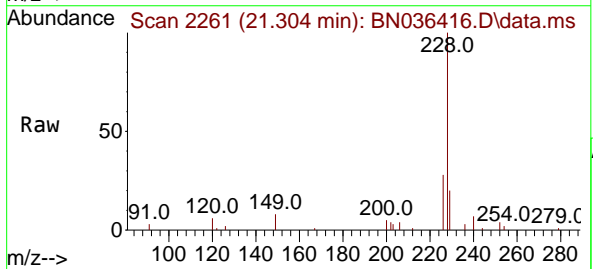
Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	15.7	12.8	19.2

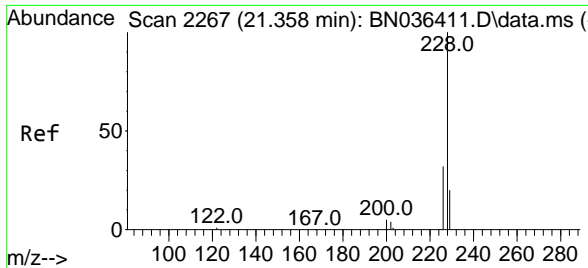


#32
 Benzo(a)anthracene
 Concen: 0.403 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion: 228 Resp: 11819

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.2
229	19.9	16.5	24.7

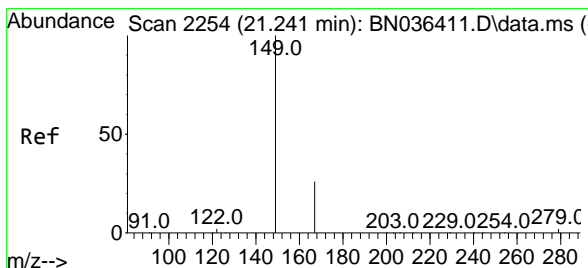
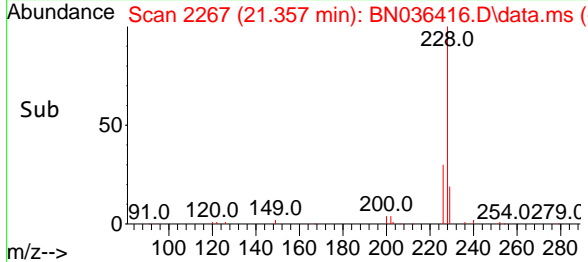
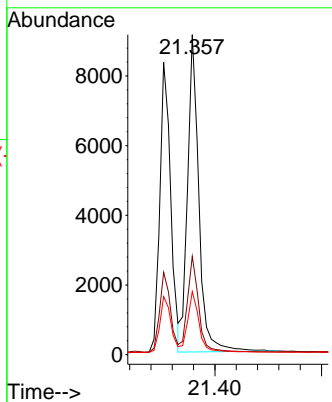
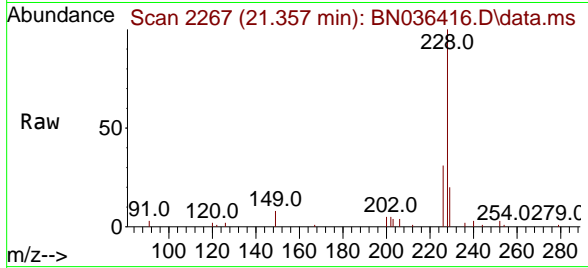




#33
 Chrysene
 Concen: 0.423 ng
 RT: 21.357 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

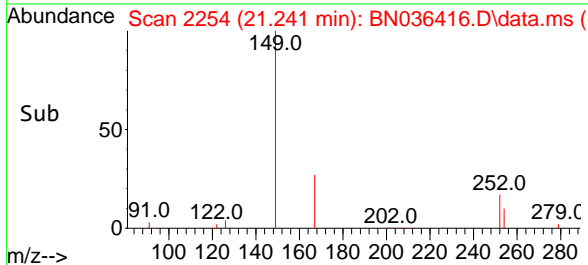
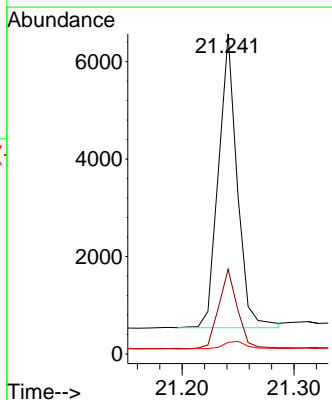
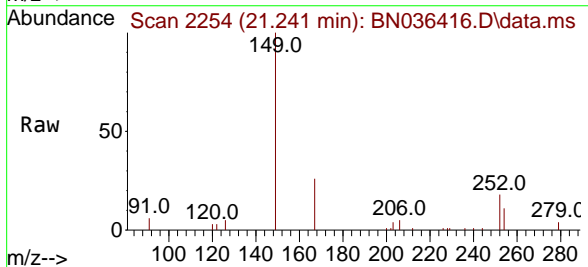
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

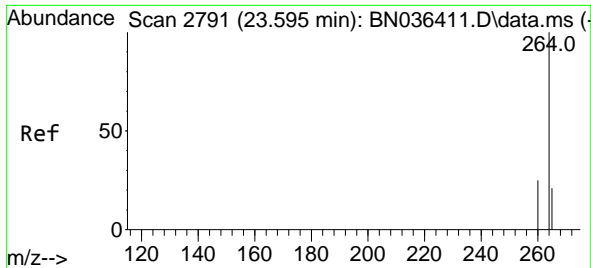
Tgt Ion	Resp	Lower	Upper
228	13425	100	
226	30.7	25.5	38.3
229	19.7	16.4	24.6



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.383 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. -0.000 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion	Resp	Lower	Upper
149	6985	100	
167	27.5	21.2	31.8
279	3.5	2.7	4.1

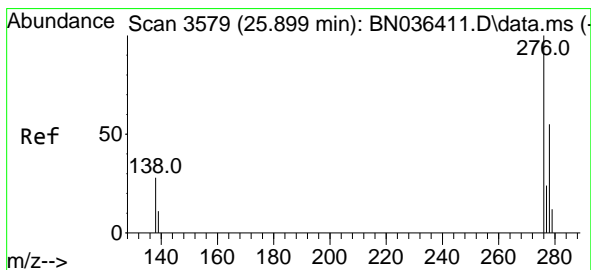
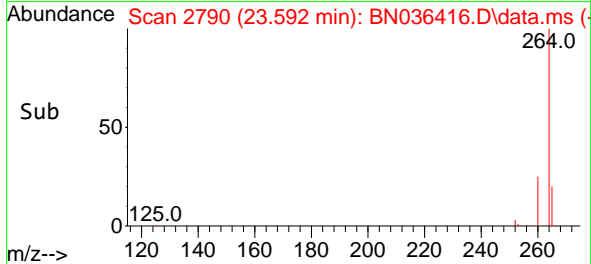
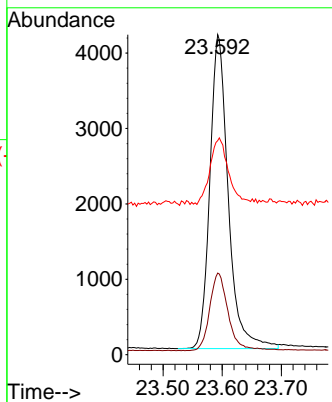
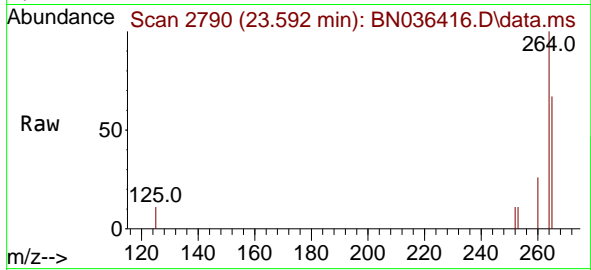




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.592 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

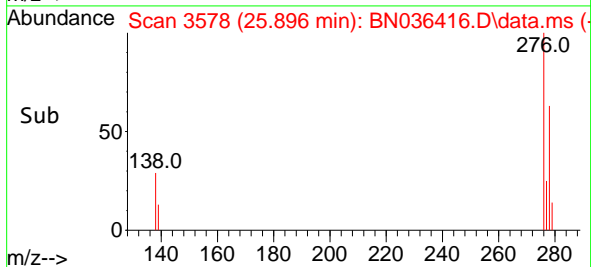
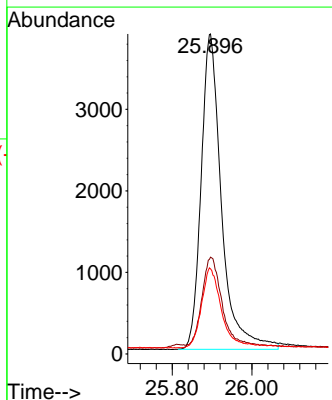
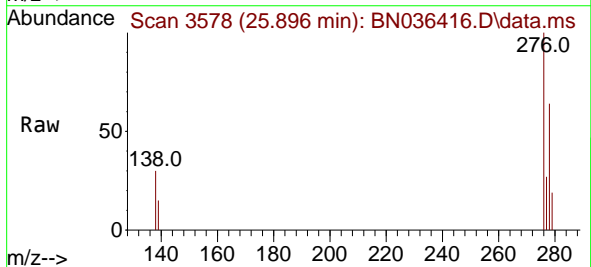
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

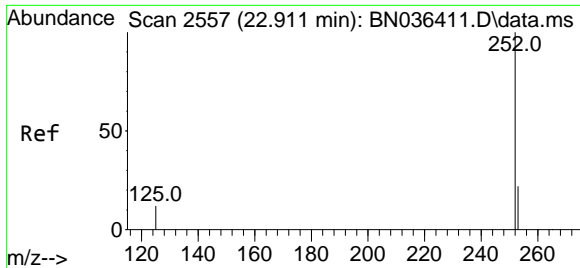
Tgt Ion	Resp	Ion Ratio	Lower	Upper
264	100			
260	25.5	20.9	31.3	
265	66.9	60.7	91.1	



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.438 ng
 RT: 25.896 min Scan# 3578
 Delta R.T. -0.003 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

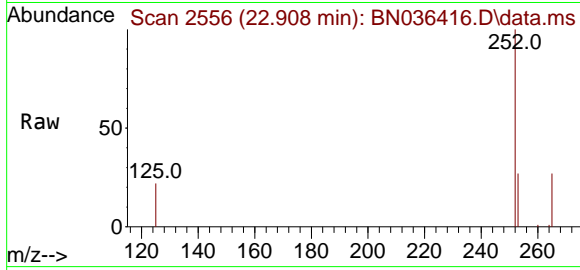
Tgt Ion	Resp	Ion Ratio	Lower	Upper
276	100			
138	27.6	22.2	33.2	
277	24.3	19.8	29.6	





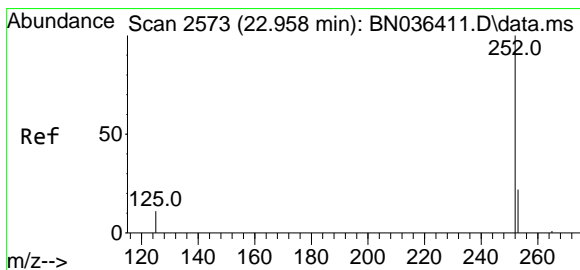
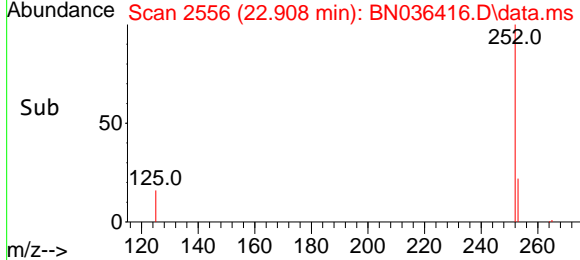
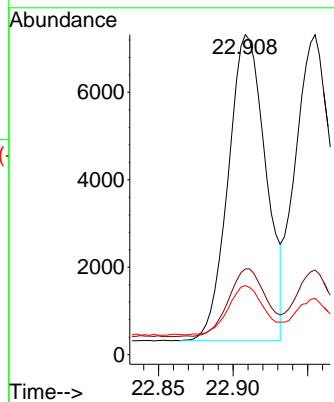
#37
 Benzo(b)fluoranthene
 Concen: 0.415 ng
 RT: 22.908 min Scan# 2556
 Delta R.T. -0.003 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument : BNA_N
 Client Sample Id : ICVBN021025



Tgt Ion: 252 Resp: 12283

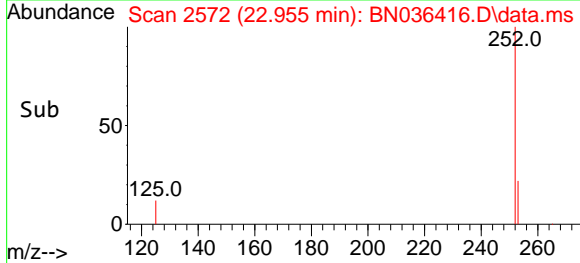
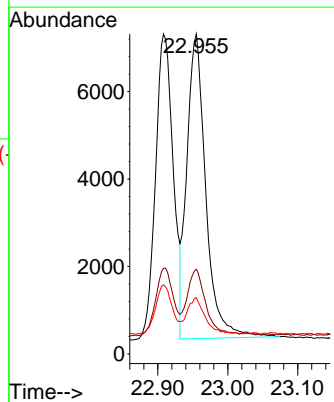
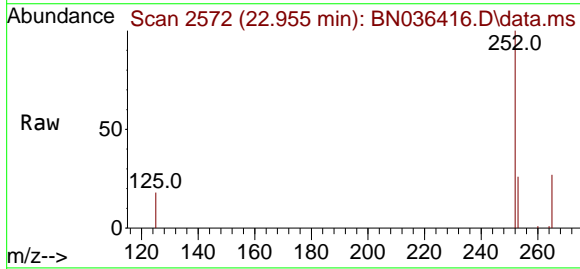
Ion	Ratio	Lower	Upper
252	100		
253	26.8	21.9	32.9
125	21.6	15.0	22.6

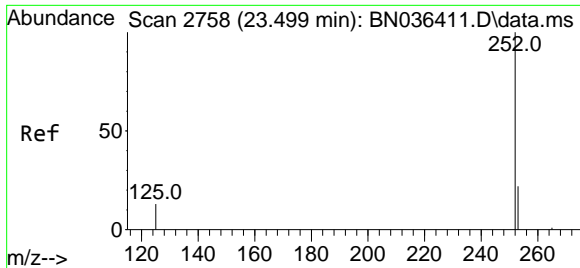


#38
 Benzo(k)fluoranthene
 Concen: 0.430 ng
 RT: 22.955 min Scan# 2572
 Delta R.T. -0.003 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Tgt Ion: 252 Resp: 13099

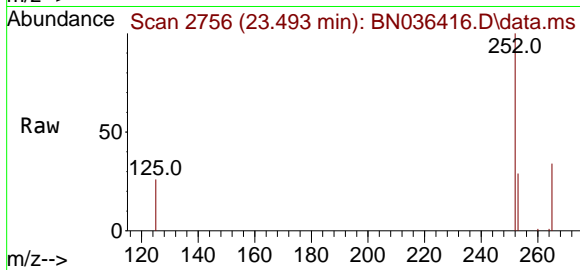
Ion	Ratio	Lower	Upper
252	100		
253	26.5	22.2	33.4
125	17.6	15.0	22.4



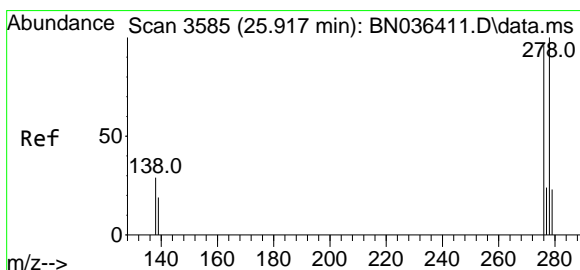
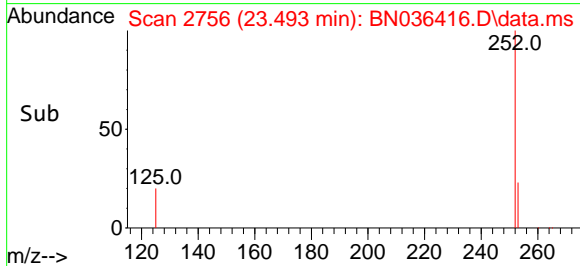
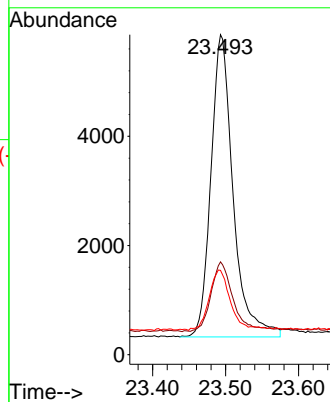


#39
 Benzo(a)pyrene
 Concen: 0.454 ng
 RT: 23.493 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

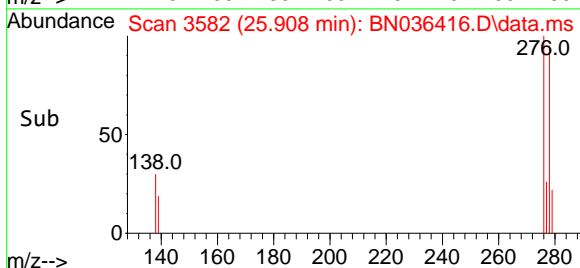
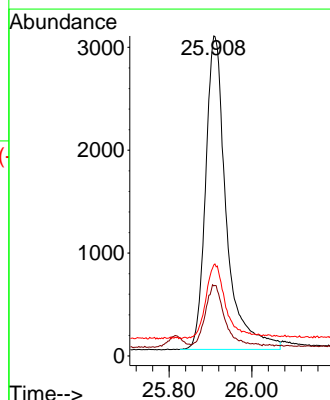
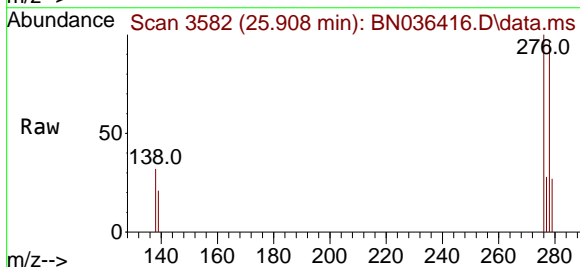


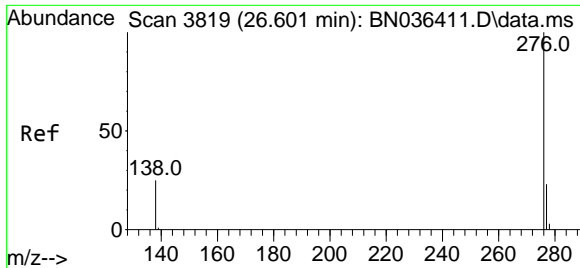
Tgt Ion:252 Resp: 11703
 Ion Ratio Lower Upper
 252 100
 253 29.0 24.4 36.6
 125 26.4 18.2 27.2



#40
 Dibenzo(a,h)anthracene
 Concen: 0.427 ng
 RT: 25.908 min Scan# 3582
 Delta R.T. -0.009 min
 Lab File: BN036416.D
 Acq: 10 Feb 2025 16:36

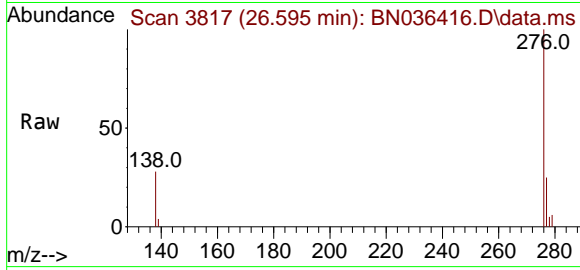
Tgt Ion:278 Resp: 10585
 Ion Ratio Lower Upper
 278 100
 139 21.9 18.5 27.7
 279 28.4 24.8 37.2





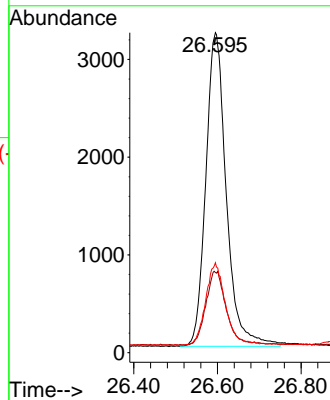
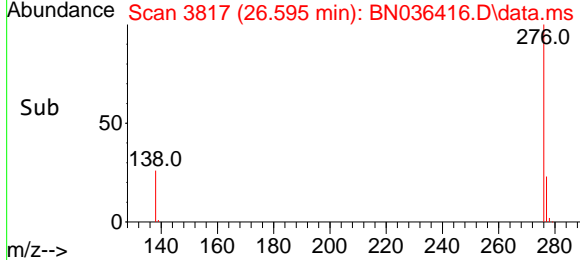
#41
Benzo(g,h,i)perylene
Concen: 0.389 ng
RT: 26.595 min Scan# 3817
Delta R.T. -0.006 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Instrument :
BNA_N
ClientSampleId :
ICVBN021025



Tgt Ion:276 Resp: 10921

Ion	Ratio	Lower	Upper
276	100		
277	25.1	20.7	31.1
138	28.1	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	123	0.00
2	1,4-Dioxane	0.438	0.449	-2.5	127	0.00
3	n-Nitrosodimethylamine	0.760	0.732	3.7	118	0.00
4 S	2-Fluorophenol	0.945	0.877	7.2	115	0.00
5 S	Phenol-d6	1.109	0.961	13.3	114	0.00
6	bis(2-Chloroethyl)ether	1.160	1.187	-2.3	134	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
8 S	Nitrobenzene-d5	0.395	0.354	10.4	118	0.00
9	Naphthalene	1.154	1.121	2.9	122	0.00
10	Hexachlorobutadiene	0.281	0.284	-1.1	122	0.00
11 SURR	2-Methylnaphthalene-d10	0.615	0.598	2.8	121	0.00
12	2-Methylnaphthalene	0.757	0.764	-0.9	126	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.198	0.165	16.7	106	0.00
15 S	2-Fluorobiphenyl	1.504	1.529	-1.7	133	0.00
16	Acenaphthylene	1.767	1.863	-5.4	132	0.00
17	Acenaphthene	1.180	1.201	-1.8	126	0.00
18	Fluorene	1.680	1.669	0.7	121	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.078	0.068	12.8	116	0.00
21	4-Bromophenyl-phenylether	0.239	0.236	1.3	119	0.00
22	Hexachlorobenzene	0.295	0.299	-1.4	123	0.00
23	Atrazine	0.199	0.197	1.0	123	0.00
24	Pentachlorophenol	0.140	0.111	20.7	106	0.00
25	Phenanthrene	1.156	1.178	-1.9	126	0.00
26	Anthracene	1.020	1.047	-2.6	126	0.00
27 SURR	Fluoranthene-d10	1.112	1.054	5.2	116	0.00
28	Fluoranthene	1.421	1.381	2.8	119	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	119	0.00
30	Pyrene	1.541	1.559	-1.2	121	0.00
31 S	Terphenyl-d14	0.854	0.870	-1.9	121	0.00
32	Benzo(a)anthracene	1.316	1.328	-0.9	122	0.00
33	Chrysene	1.425	1.508	-5.8	132	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.785	4.3	120	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.530	-9.4	129	0.00
37	Benzo(b)fluoranthene	1.317	1.368	-3.9	126	0.00
38	Benzo(k)fluoranthene	1.356	1.459	-7.6	124	0.00
39 C	Benzo(a)pyrene	1.150	1.304	-13.4	137	0.00
40	Dibenzo(a,h)anthracene	1.103	1.179	-6.9	127	0.00
41	Benzo(g,h,i)perylene	1.250	1.217	2.6	113	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	123	0.00
2	1,4-Dioxane	0.400	0.410	-2.5	127	0.00
3	n-Nitrosodimethylamine	0.400	0.385	3.8	118	0.00
4 S	2-Fluorophenol	0.400	0.371	7.3	115	0.00
5 S	Phenol-d6	0.400	0.347	13.3	114	0.00
6	bis(2-Chloroethyl)ether	0.400	0.409	-2.2	134	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	122	0.00
8 S	Nitrobenzene-d5	0.400	0.359	10.3	118	0.00
9	Naphthalene	0.400	0.389	2.8	122	0.00
10	Hexachlorobutadiene	0.400	0.404	-1.0	122	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	121	0.00
12	2-Methylnaphthalene	0.400	0.404	-1.0	126	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.400	0.332	17.0	106	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	133	0.00
16	Acenaphthylene	0.400	0.422	-5.5	132	0.00
17	Acenaphthene	0.400	0.407	-1.7	126	0.00
18	Fluorene	0.400	0.397	0.8	121	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.348	13.0	116	0.00
21	4-Bromophenyl-phenylether	0.400	0.395	1.3	119	0.00
22	Hexachlorobenzene	0.400	0.406	-1.5	123	0.00
23	Atrazine	0.400	0.396	1.0	123	0.00
24	Pentachlorophenol	0.400	0.316	21.0	106	0.00
25	Phenanthrene	0.400	0.408	-2.0	126	0.00
26	Anthracene	0.400	0.411	-2.7	126	0.00
27 SURR	Fluoranthene-d10	0.400	0.379	5.3	116	0.00
28	Fluoranthene	0.400	0.389	2.8	119	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	119	0.00
30	Pyrene	0.400	0.405	-1.3	121	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	121	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	122	0.00
33	Chrysene	0.400	0.423	-5.7	132	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.383	4.3	120	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.438	-9.5	129	0.00
37	Benzo(b)fluoranthene	0.400	0.415	-3.7	126	0.00
38	Benzo(k)fluoranthene	0.400	0.430	-7.5	124	0.00
39 C	Benzo(a)pyrene	0.400	0.454	-13.5	137	0.00
40	Dibenzo(a,h)anthracene	0.400	0.427	-6.7	127	0.00
41	Benzo(g,h,i)perylene	0.400	0.389	2.8	113	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: TETRO6
 Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG No.: Q1347
 Instrument ID: BNA_N Calibration Date/Time: 02/12/2025 15:48
 Lab File ID: BN036441.D Init. Calib. Date(s): 02/10/2025 02/10/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:25 16:00
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.594		-3.4	20.0
Fluoranthene-d10	1.112	1.037		-6.7	20.0
2-Fluorophenol	0.945	0.868		-8.1	20.0
Phenol-d6	1.109	0.993		-10.5	20.0
Nitrobenzene-d5	0.395	0.382		-3.3	20.0
2-Fluorobiphenyl	1.504	1.361		-9.5	20.0
2,4,6-Tribromophenol	0.198	0.161		-18.7	20.0
Terphenyl-d14	0.854	0.819		-4.1	20.0
1,4-Dioxane	0.438	0.428		-2.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036441.D
 Acq On : 12 Feb 2025 15:48
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Feb 12 16:13:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

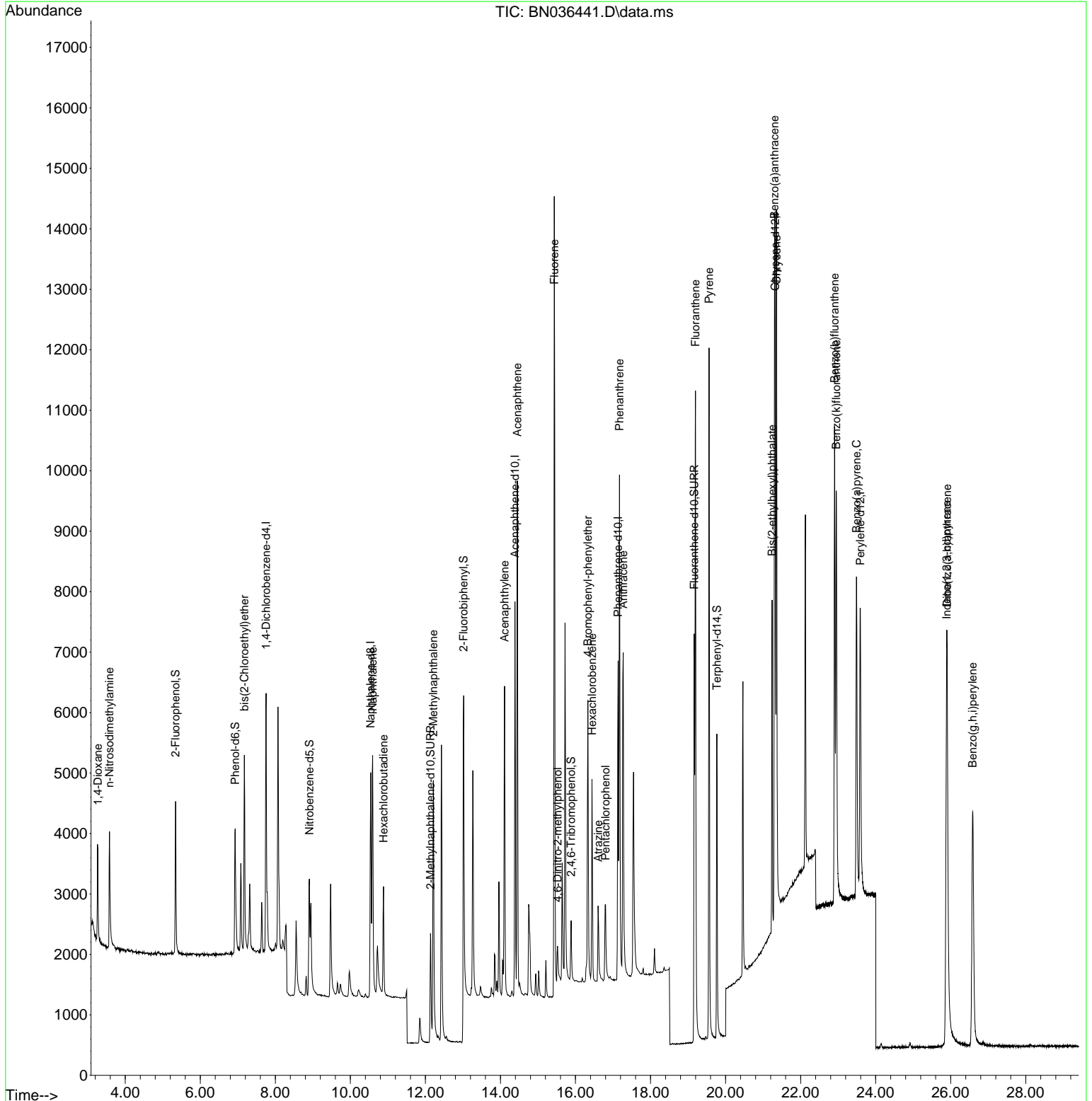
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2210	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	5455	0.400	ng	0.00	
13) Acenaphthene-d10	14.387	164	3758	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	8093	0.400	ng	0.00	
29) Chrysene-d12	21.322	240	7173	0.400	ng	0.00	
35) Perylene-d12	23.589	264	7217	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	1918	0.367	ng	0.00	
5) Phenol-d6	6.930	99	2195	0.358	ng	0.00	
8) Nitrobenzene-d5	8.907	82	2082	0.387	ng	0.00	
11) 2-Methylnaphthalene-d10	12.136	152	3238	0.386	ng	0.00	
14) 2,4,6-Tribromophenol	15.882	330	605	0.325	ng	0.00	
15) 2-Fluorobiphenyl	13.019	172	5114	0.362	ng	0.00	
27) Fluoranthene-d10	19.164	212	8393	0.373	ng	0.00	
31) Terphenyl-d14	19.768	244	5878	0.384	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	946	0.391	ng		97
3) n-Nitrosodimethylamine	3.579	42	1672	0.398	ng		95
6) bis(2-Chloroethyl)ether	7.175	93	2521	0.393	ng		97
9) Naphthalene	10.594	128	6118	0.389	ng		100
10) Hexachlorobutadiene	10.882	225	1505	0.393	ng	#	99
12) 2-Methylnaphthalene	12.212	142	3968	0.385	ng		98
16) Acenaphthylene	14.110	152	6026	0.363	ng		100
17) Acenaphthene	14.452	154	4122	0.372	ng		99
18) Fluorene	15.435	166	5886	0.373	ng		99
20) 4,6-Dinitro-2-methylph...	15.522	198	505	0.318	ng		94
21) 4-Bromophenyl-phenylether	16.329	248	1877	0.389	ng	#	90
22) Hexachlorobenzene	16.441	284	2387	0.400	ng		99
23) Atrazine	16.602	200	1442	0.358	ng		96
24) Pentachlorophenol	16.801	266	931	0.329	ng		99
25) Phenanthrene	17.173	178	9138	0.391	ng		100
26) Anthracene	17.273	178	7822	0.379	ng		99
28) Fluoranthene	19.197	202	10851	0.377	ng		99
30) Pyrene	19.559	202	11169	0.404	ng		100
32) Benzo(a)anthracene	21.304	228	9071	0.384	ng		98
33) Chrysene	21.357	228	10950	0.428	ng		98
34) Bis(2-ethylhexyl)phtha...	21.241	149	5096	0.347	ng		99
36) Indeno(1,2,3-cd)pyrene	25.890	276	9792	0.388	ng		98
37) Benzo(b)fluoranthene	22.905	252	9872	0.415	ng		100
38) Benzo(k)fluoranthene	22.952	252	10113	0.413	ng		99
39) Benzo(a)pyrene	23.490	252	8492	0.409	ng		97
40) Dibenzo(a,h)anthracene	25.905	278	7530	0.378	ng		97
41) Benzo(g,h,i)perylene	26.586	276	8843	0.392	ng		99

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

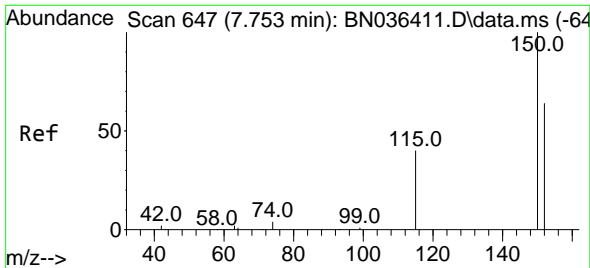
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 Data File : BN036441.D
 Acq On : 12 Feb 2025 15:48
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4

Quant Time: Feb 12 16:13:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

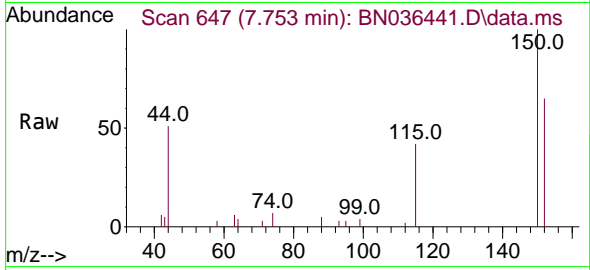


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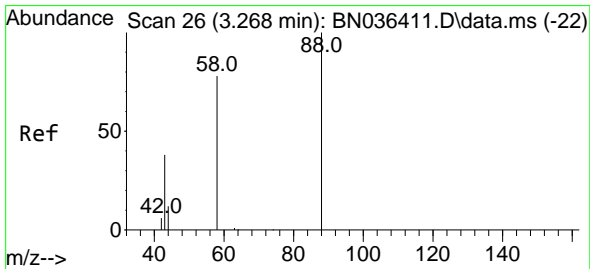
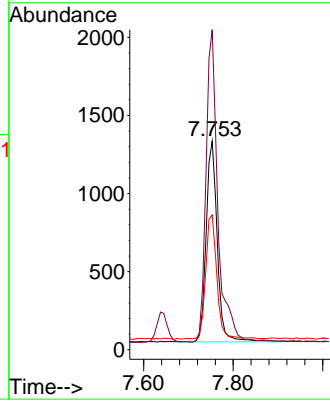
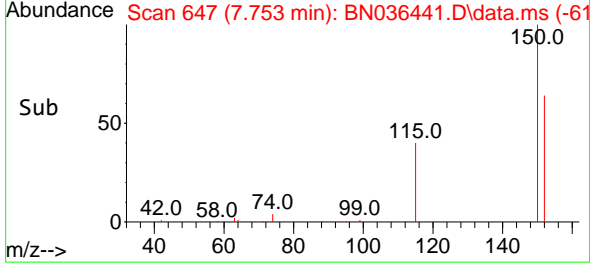


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

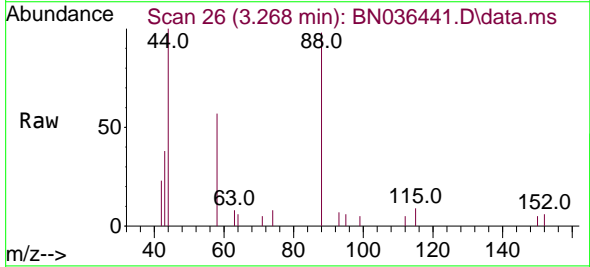
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4



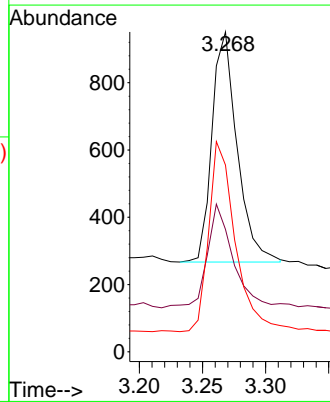
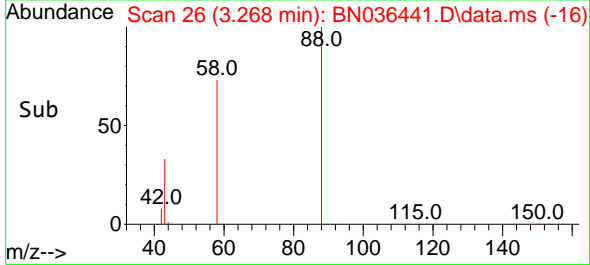
Tgt Ion:152 Resp: 2210
 Ion Ratio Lower Upper
 152 100
 150 153.4 123.7 185.5
 115 64.6 52.5 78.7

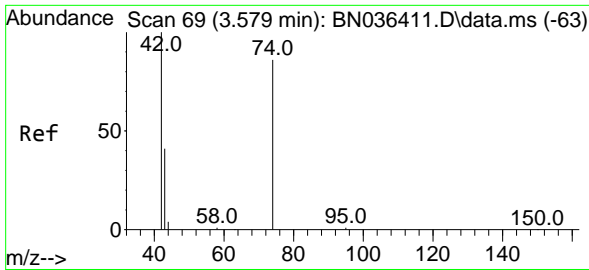


#2
 1,4-Dioxane
 Concen: 0.391 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48



Tgt Ion: 88 Resp: 946
 Ion Ratio Lower Upper
 88 100
 43 46.0 33.7 50.5
 58 87.0 68.9 103.3



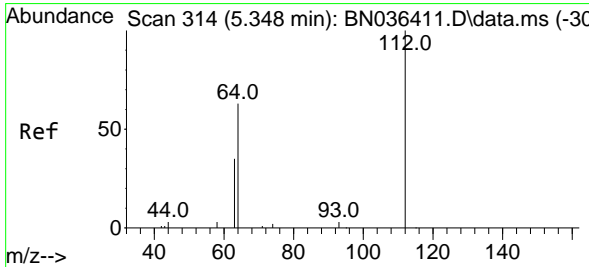
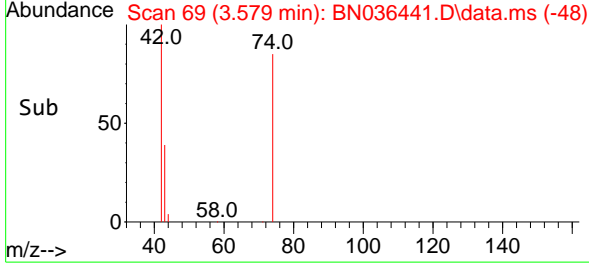
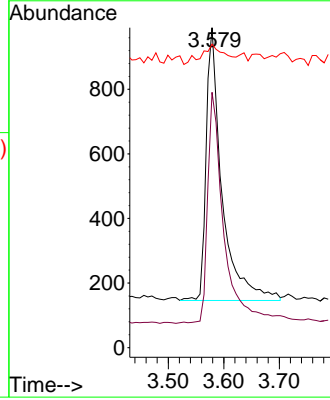
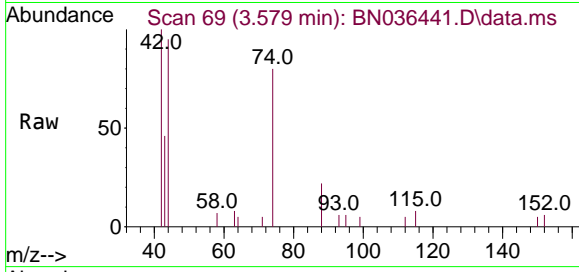


#3
 n-Nitrosodimethylamine
 Concen: 0.398 ng
 RT: 3.579 min Scan# 69
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion: 42 Resp: 1672

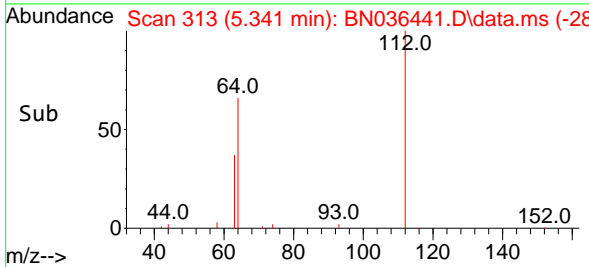
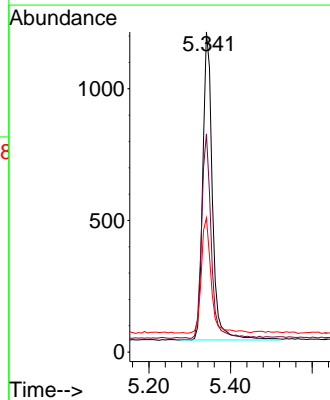
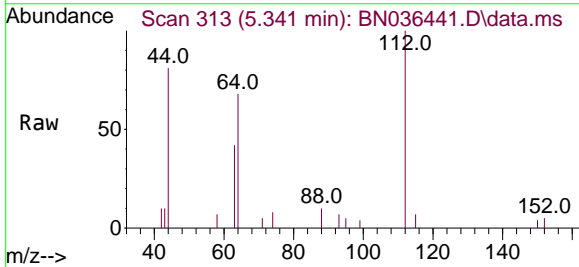
Ion	Ratio	Lower	Upper
42	100		
74	85.1	71.8	107.6
44	10.6	7.8	11.6

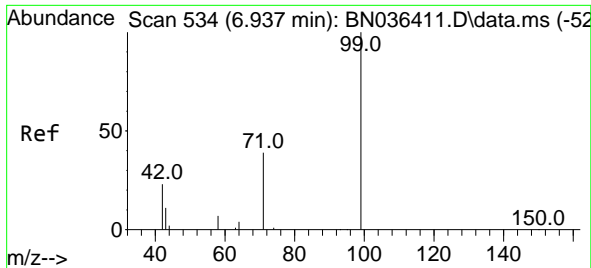


#4
 2-Fluorophenol
 Concen: 0.367 ng
 RT: 5.341 min Scan# 313
 Delta R.T. -0.007 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion: 112 Resp: 1918

Ion	Ratio	Lower	Upper
112	100		
64	66.7	53.4	80.0
63	37.3	30.3	45.5

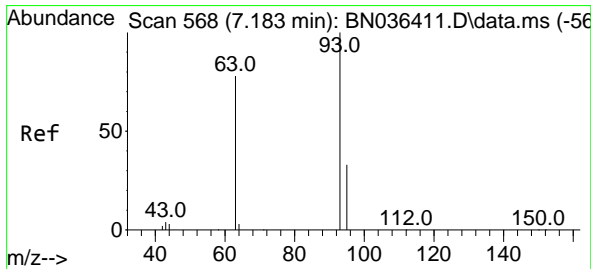
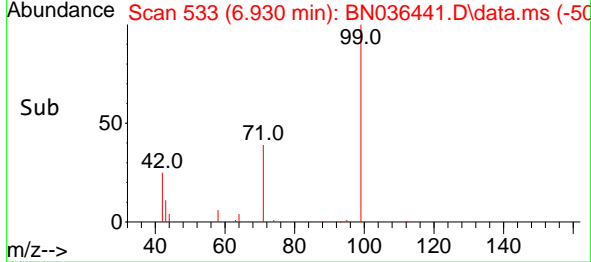
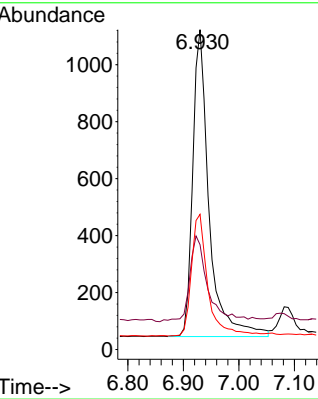
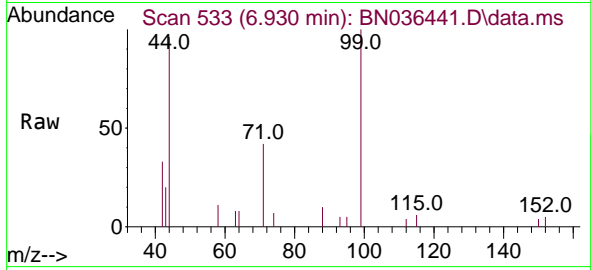




#5
 Phenol-d6
 Concen: 0.358 ng
 RT: 6.930 min Scan# 511
 Delta R.T. -0.007 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

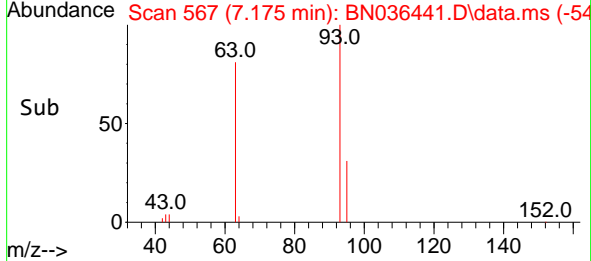
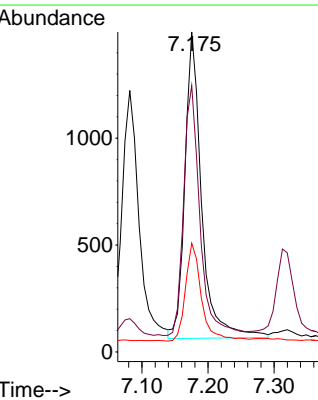
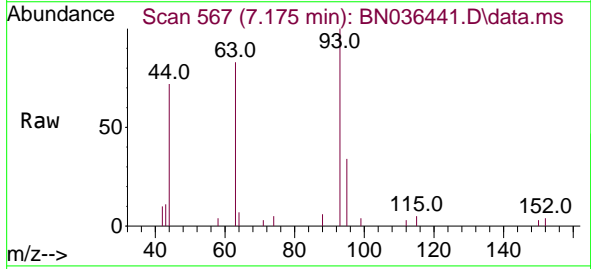
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

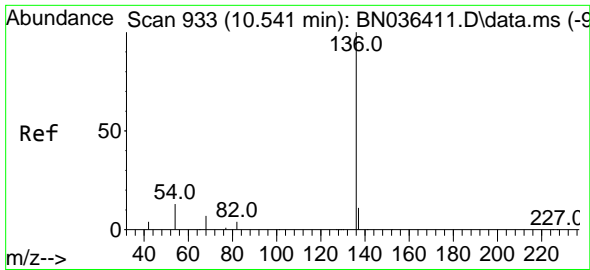
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	2195	100		
42		31.5	21.7	32.5
71		40.0	32.6	49.0



#6
 bis(2-Chloroethyl)ether
 Concen: 0.393 ng
 RT: 7.175 min Scan# 567
 Delta R.T. -0.007 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	2521	100		
63		80.0	66.3	99.5
95		30.8	26.2	39.4



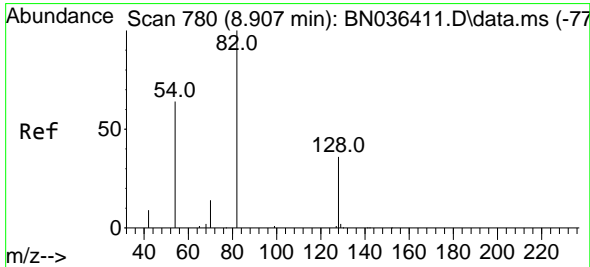
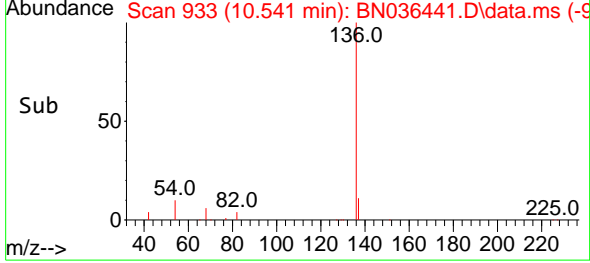
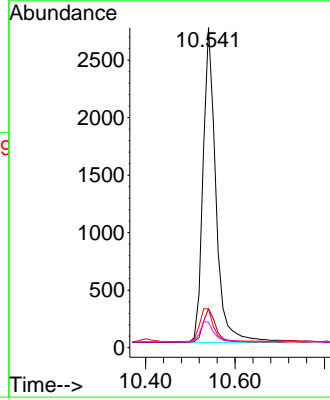
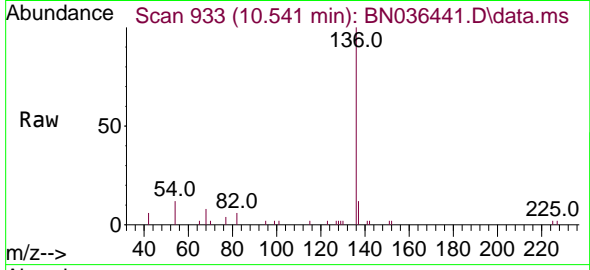


#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion: 136 Resp: 5455

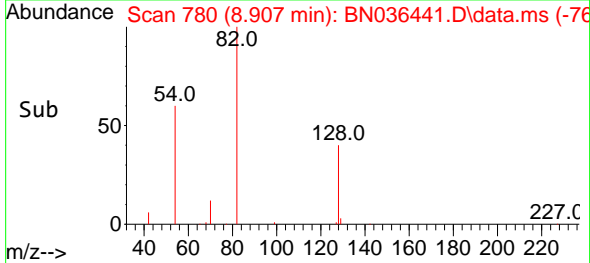
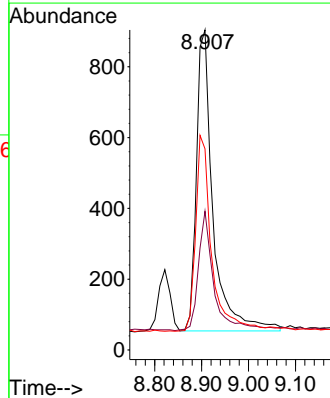
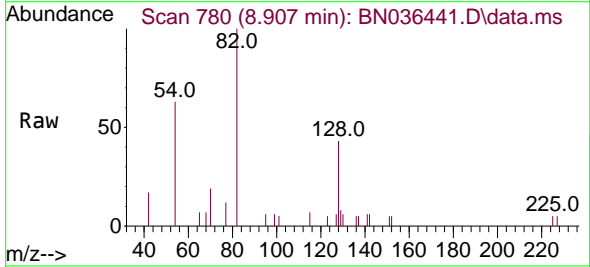
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.1	15.1
54	12.1	11.8	17.6
68	8.0	7.2	10.8

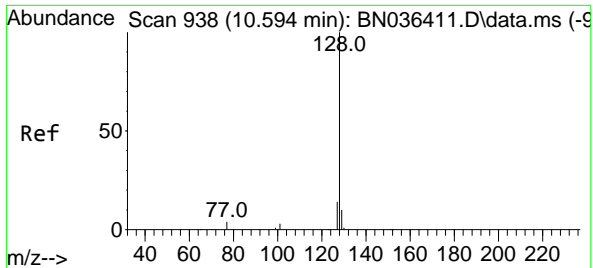


#8
 Nitrobenzene-d5
 Concen: 0.387 ng
 RT: 8.907 min Scan# 780
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion: 82 Resp: 2082

Ion	Ratio	Lower	Upper
82	100		
128	43.4	31.9	47.9
54	62.8	53.1	79.7



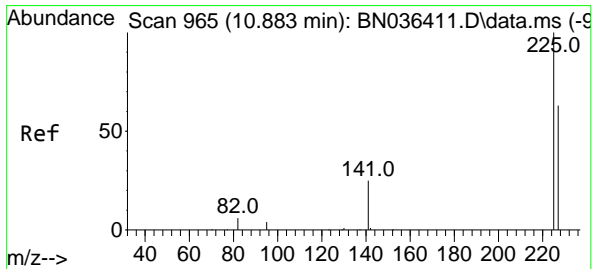
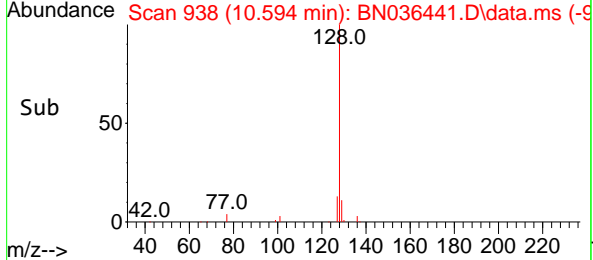
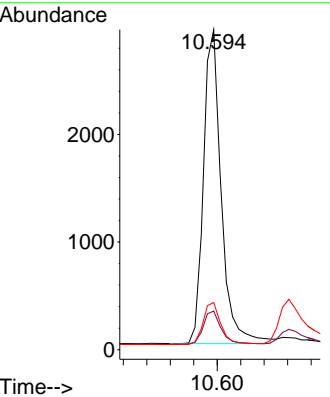
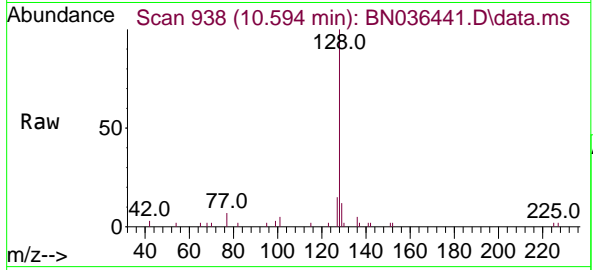


#9
Naphthalene
 Concen: 0.389 ng
 RT: 10.594 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4

Tgt Ion:128 Resp: 6118

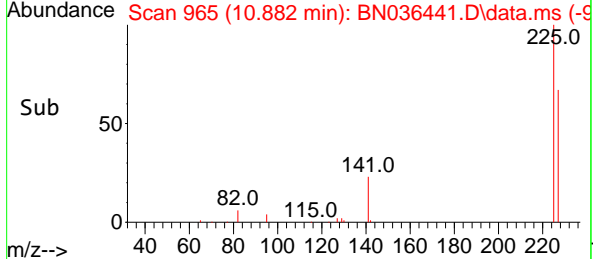
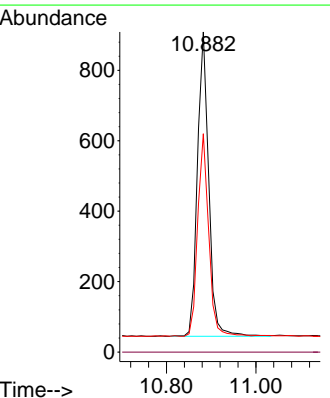
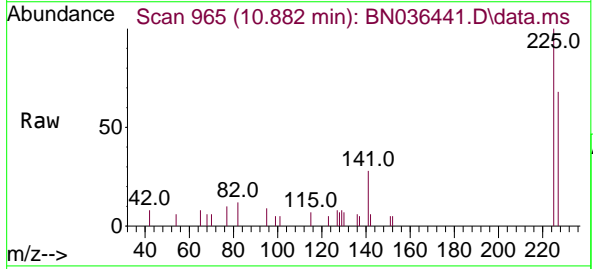
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.6	14.4
127	14.8	12.0	18.0

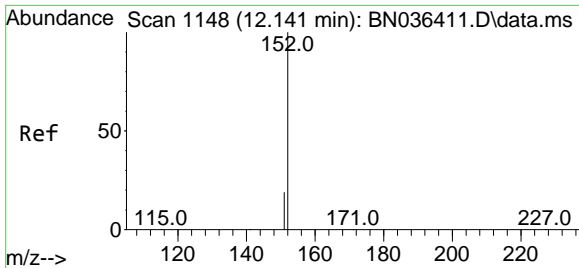


#10
Hexachlorobutadiene
 Concen: 0.393 ng
 RT: 10.882 min Scan# 965
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion:225 Resp: 1505

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	50.9	76.3

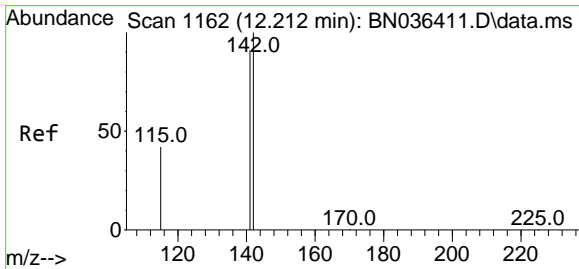
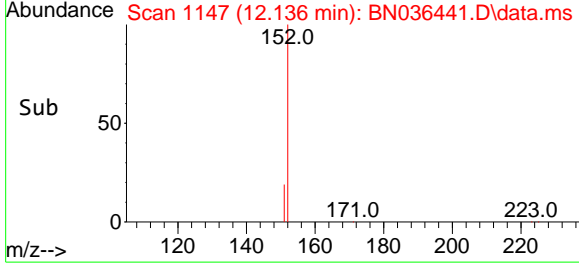
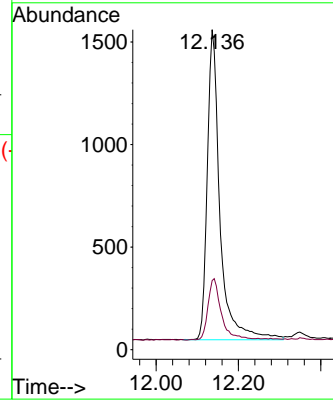
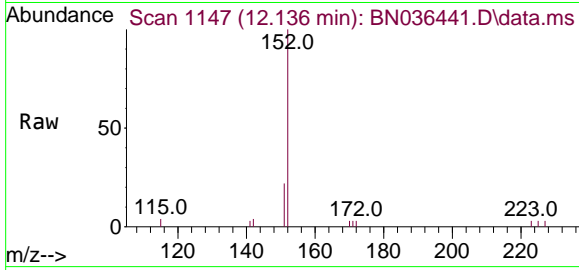




#11
 2-Methylnaphthalene-d10
 Concen: 0.386 ng
 RT: 12.136 min Scan# 1147
 Delta R.T. -0.005 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

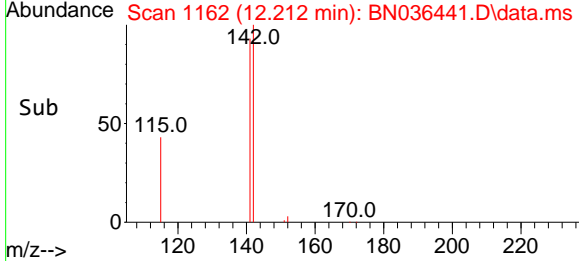
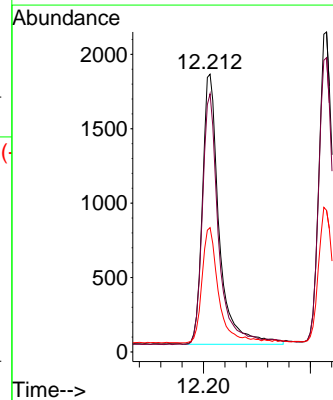
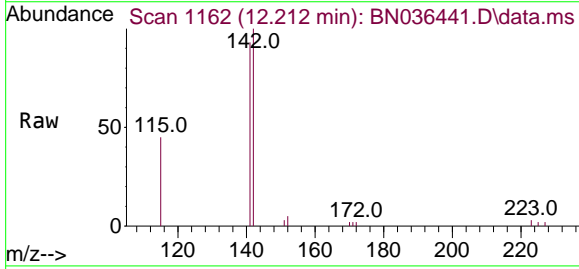
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

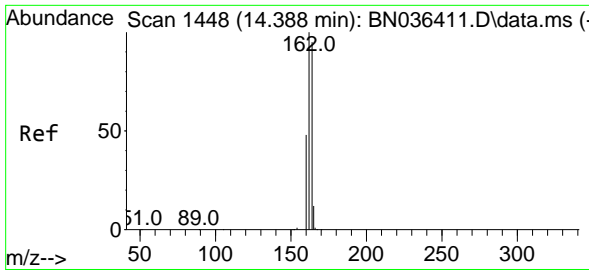
Tgt Ion:152 Resp: 3238
 Ion Ratio Lower Upper
 152 100
 151 20.9 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.385 ng
 RT: 12.212 min Scan# 1162
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

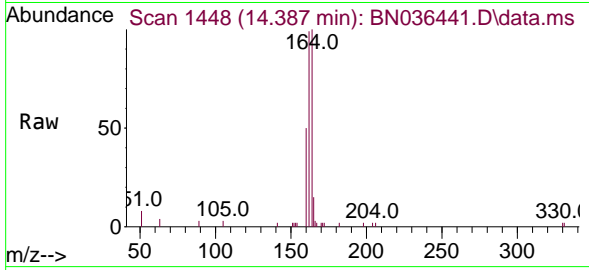
Tgt Ion:142 Resp: 3968
 Ion Ratio Lower Upper
 142 100
 141 93.0 72.8 109.2
 115 44.7 35.5 53.3





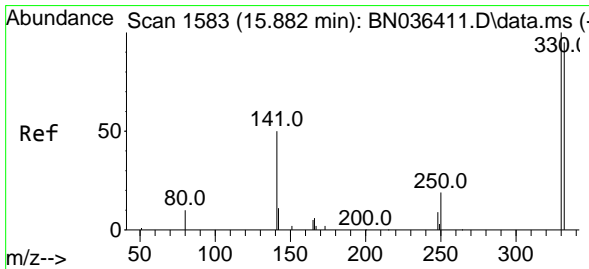
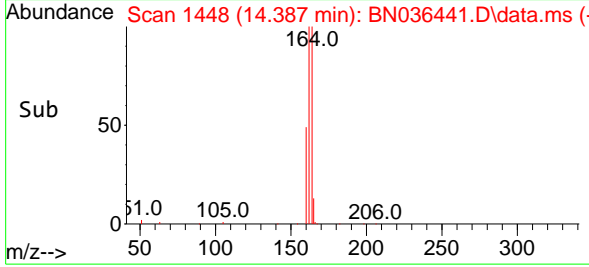
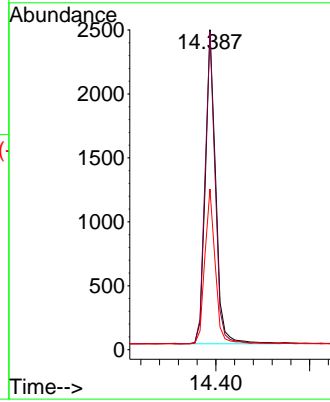
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

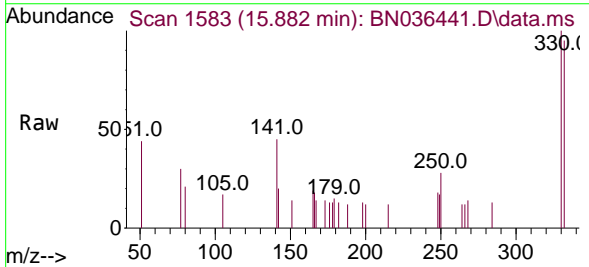


Tgt Ion:164 Resp: 3758

Ion	Ratio	Lower	Upper
164	100		
162	99.4	84.1	126.1
160	50.2	41.4	62.0

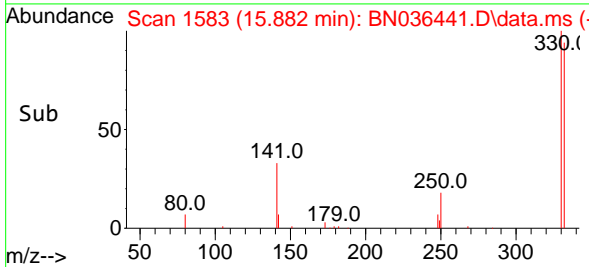
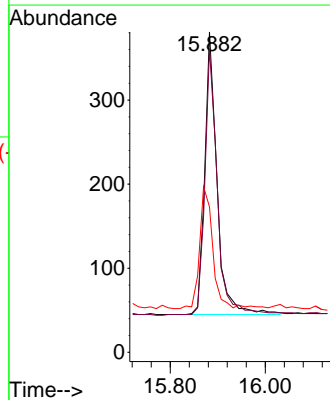


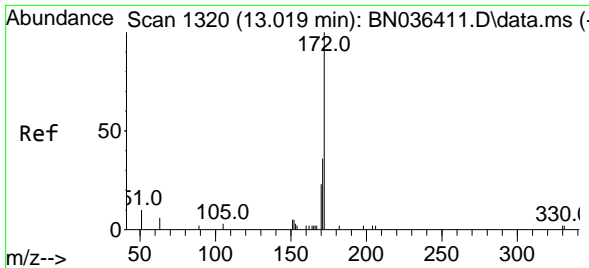
#14
 2,4,6-Tribromophenol
 Concen: 0.325 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48



Tgt Ion:330 Resp: 605

Ion	Ratio	Lower	Upper
330	100		
332	94.4	76.6	114.8
141	46.6	37.8	56.8

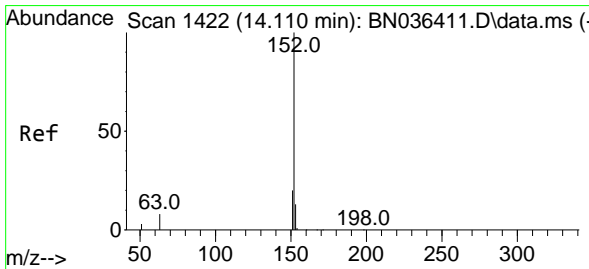
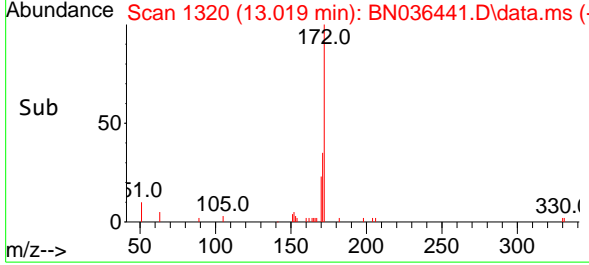
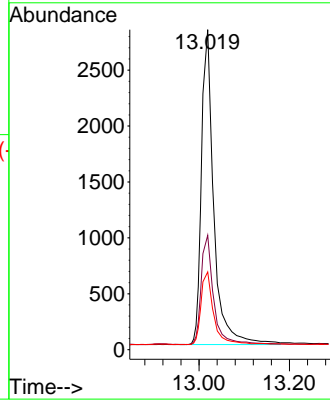
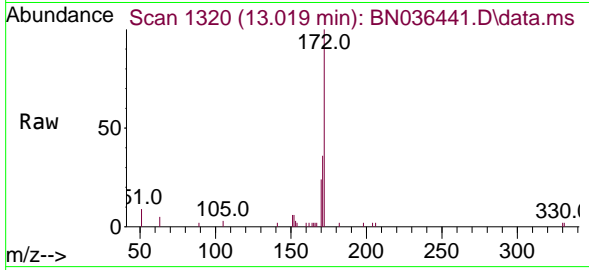




#15
 2-Fluorobiphenyl
 Concen: 0.362 ng
 RT: 13.019 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

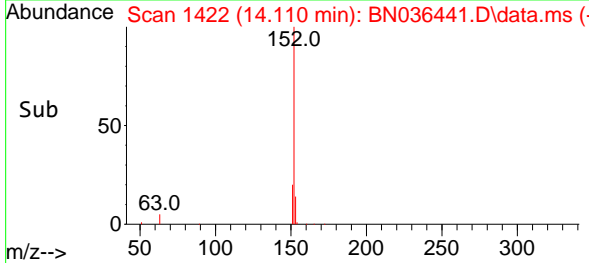
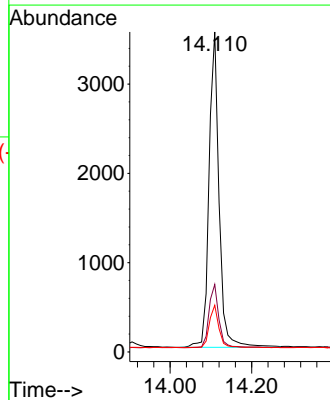
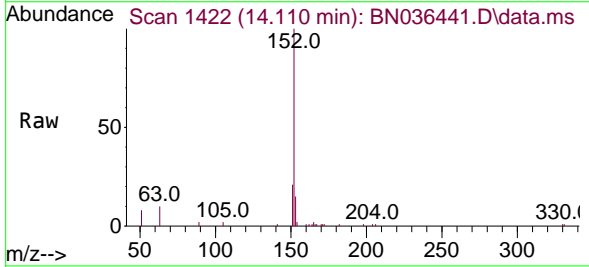
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

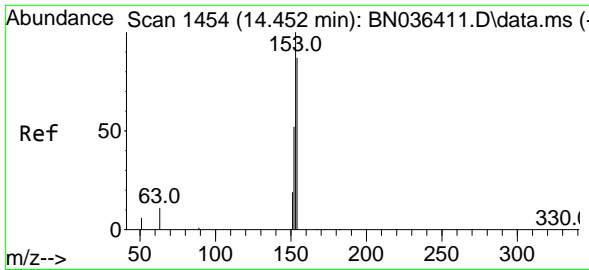
Tgt Ion	Resp	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	24.3	19.8	29.6



#16
 Acenaphthylene
 Concen: 0.363 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion	Resp	Lower	Upper
152	100		
151	19.6	15.8	23.8
153	12.9	10.2	15.2

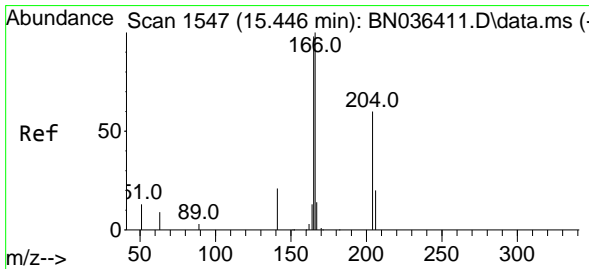
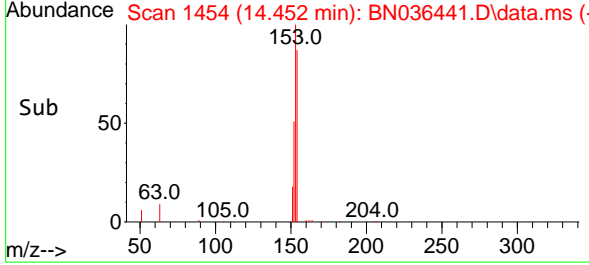
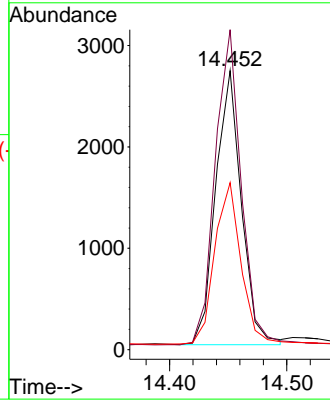
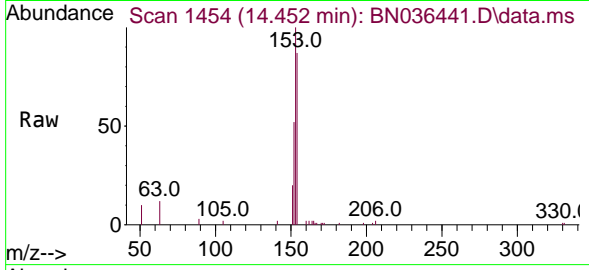




#17
Acenaphthene
 Concen: 0.372 ng
 RT: 14.452 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

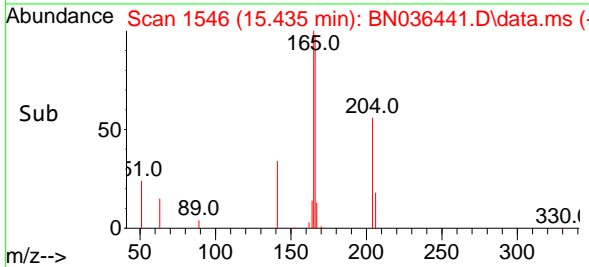
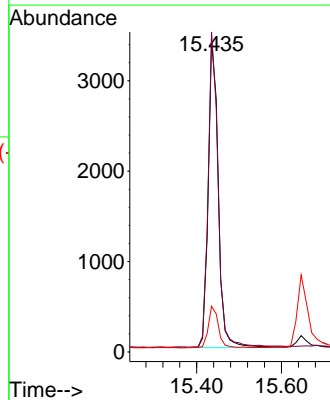
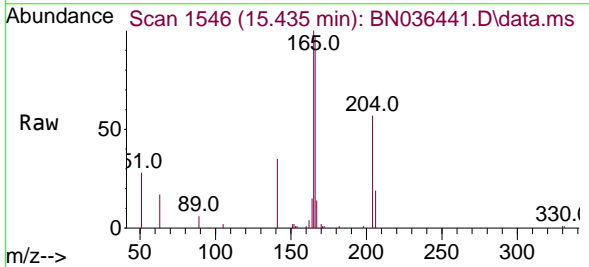
Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4

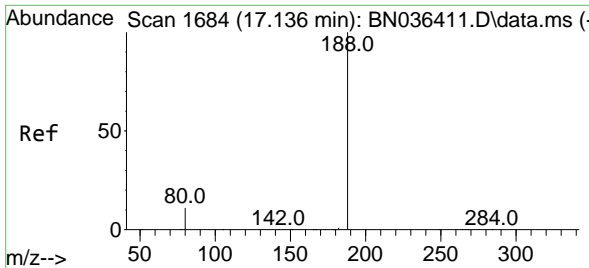
Tgt Ion	Resp	Lower	Upper
154	4122		
153	117.8	93.3	139.9
152	61.1	48.8	73.2



#18
Fluorene
 Concen: 0.373 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion	Resp	Lower	Upper
166	5886		
165	100.7	79.5	119.3
167	13.5	10.4	15.6



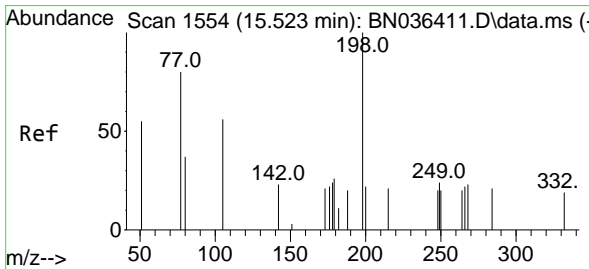
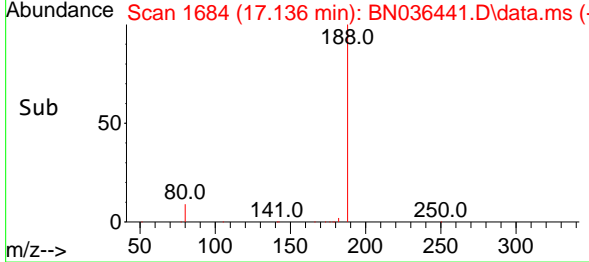
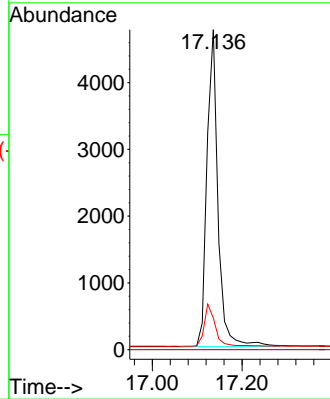
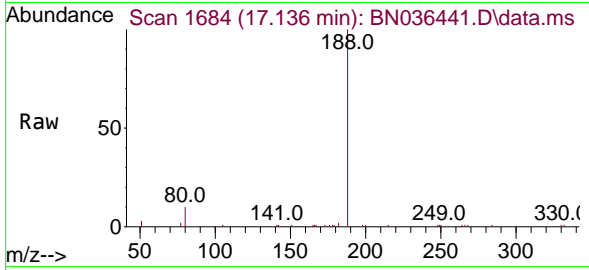


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion:188 Resp: 8093

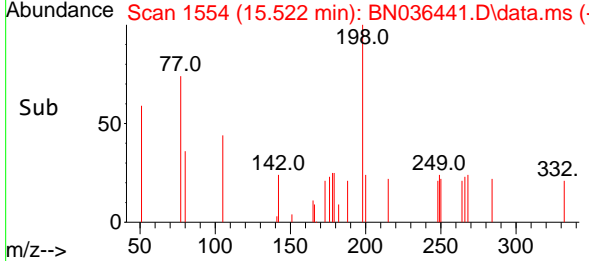
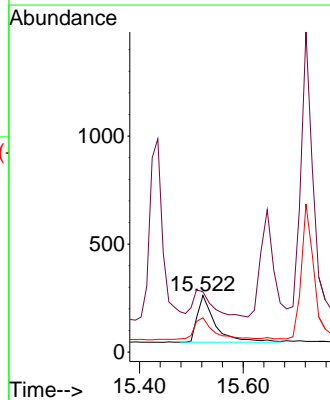
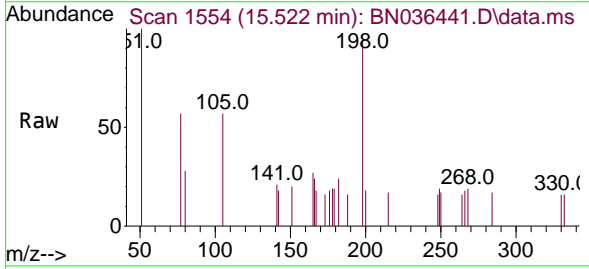
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	9.8	14.6

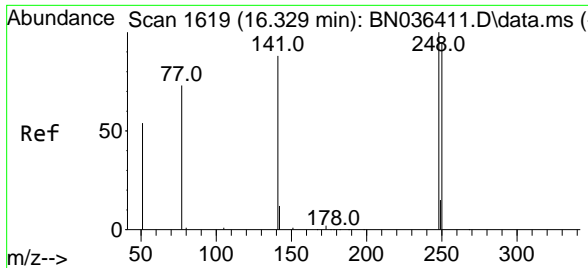


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.318 ng
 RT: 15.522 min Scan# 1554
 Delta R.T. -0.001 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion:198 Resp: 505

Ion	Ratio	Lower	Upper
198	100		
51	106.5	86.6	129.8
105	60.7	57.5	86.3



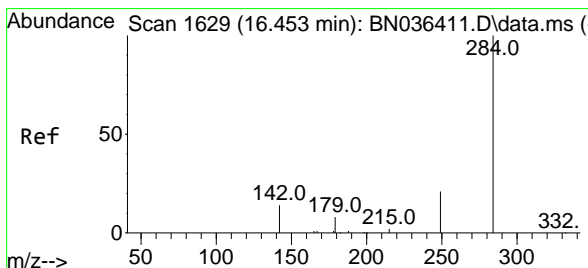
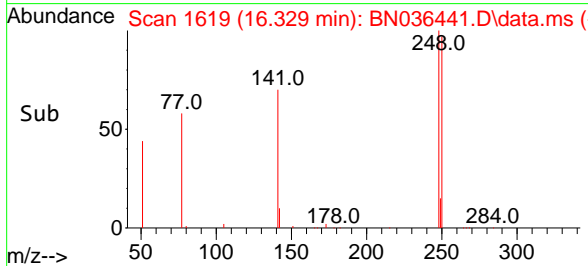
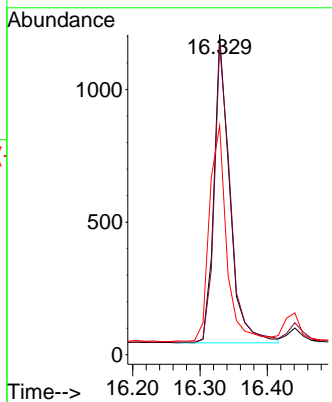
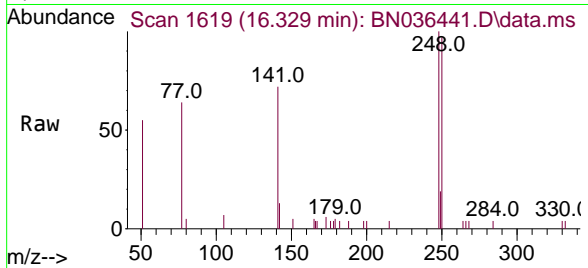


#21
 4-Bromophenyl-phenylether
 Concen: 0.389 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion: 248 Resp: 1877

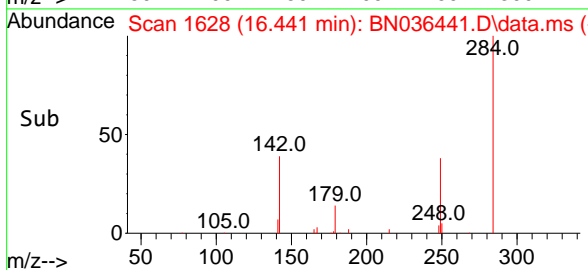
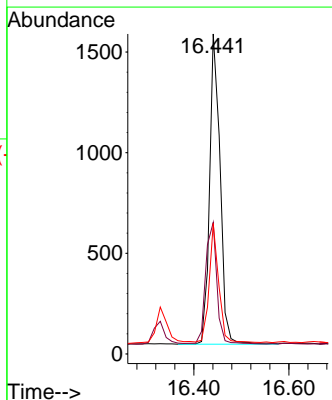
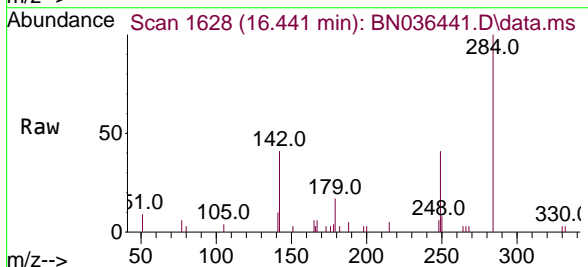
Ion	Ratio	Lower	Upper
248	100		
250	96.9	76.1	114.1
141	71.6	71.7	107.5#

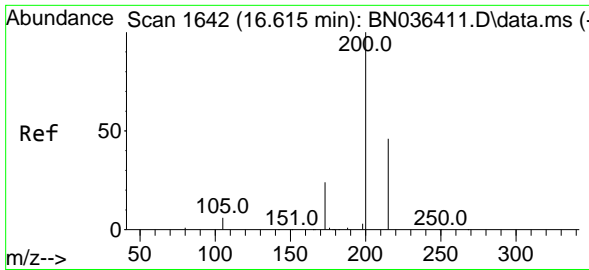


#22
 Hexachlorobenzene
 Concen: 0.400 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.013 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion: 284 Resp: 2387

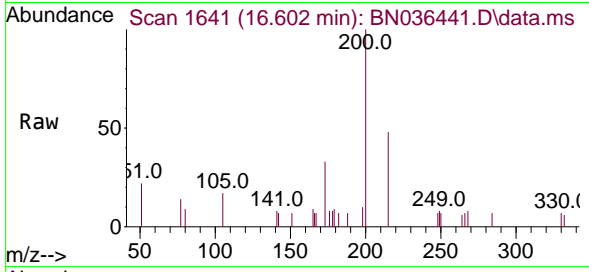
Ion	Ratio	Lower	Upper
284	100		
142	42.0	33.4	50.0
249	34.7	28.6	43.0



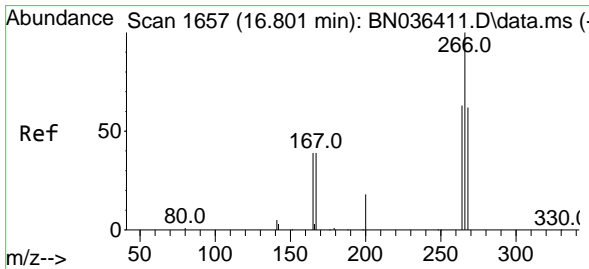
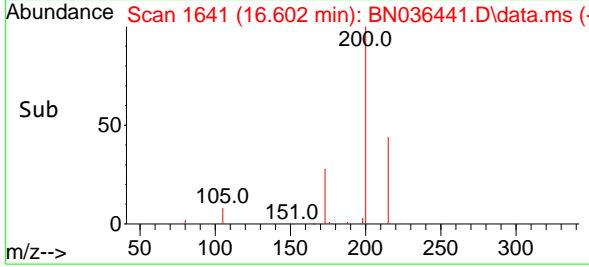
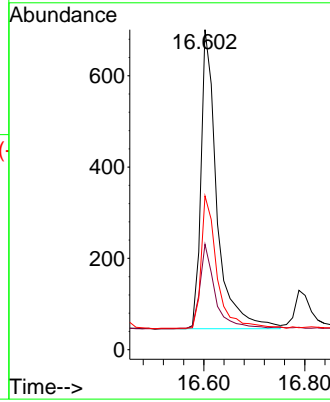


#23
Atrazine
 Concen: 0.358 ng
 RT: 16.602 min Scan# 1641
 Delta R.T. -0.013 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

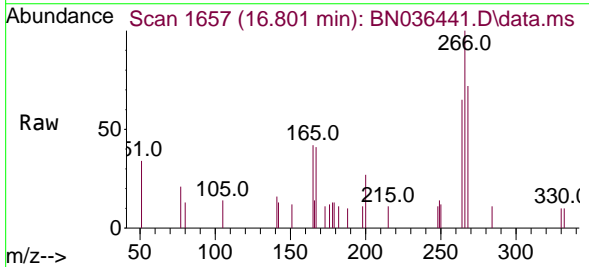
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



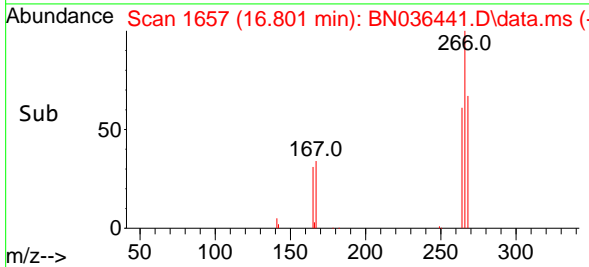
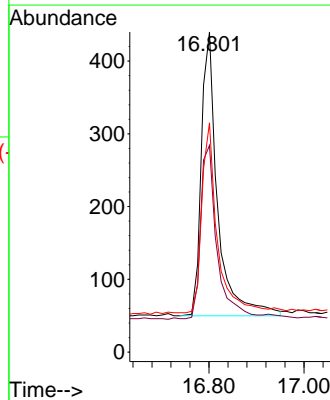
Tgt Ion:200 Resp: 1442
 Ion Ratio Lower Upper
 200 100
 173 33.0 23.2 34.8
 215 48.1 40.0 60.0

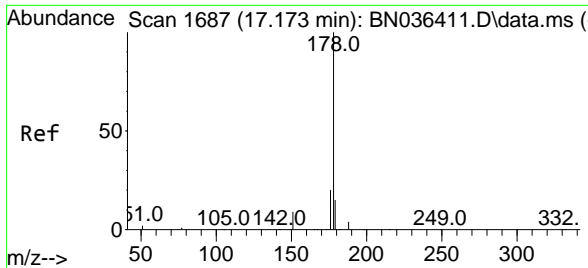


#24
Pentachlorophenol
 Concen: 0.329 ng
 RT: 16.801 min Scan# 1657
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48



Tgt Ion:266 Resp: 931
 Ion Ratio Lower Upper
 266 100
 264 62.3 50.6 76.0
 268 64.3 51.9 77.9

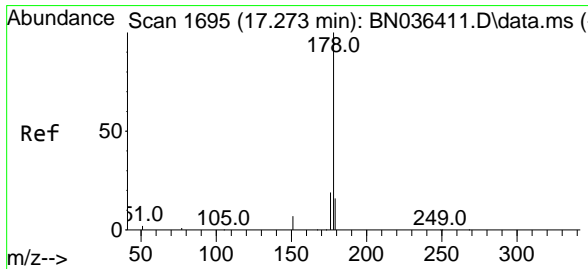
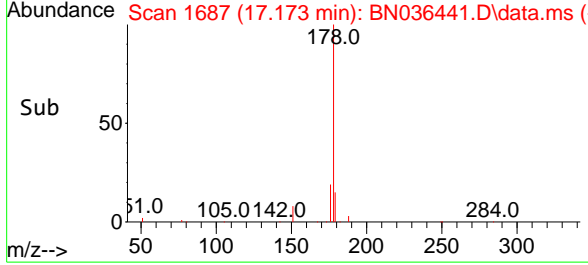
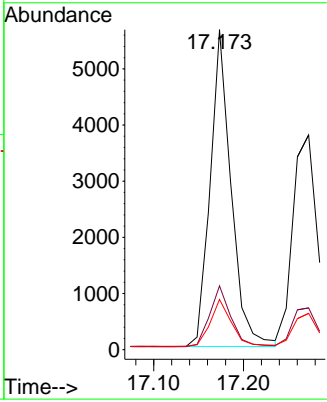
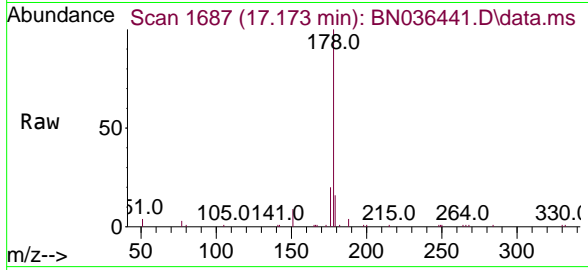




#25
 Phenanthrene
 Concen: 0.391 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

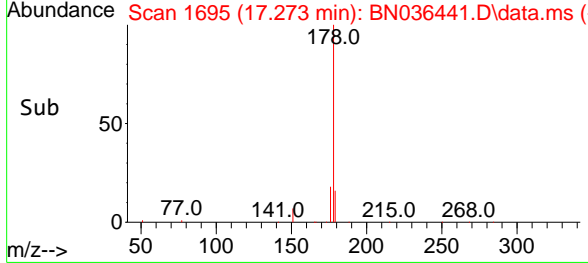
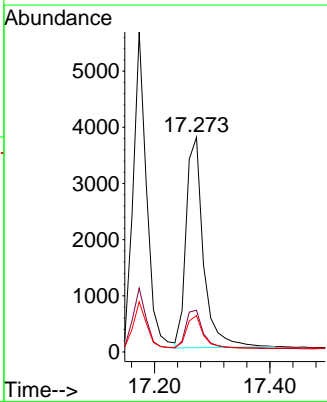
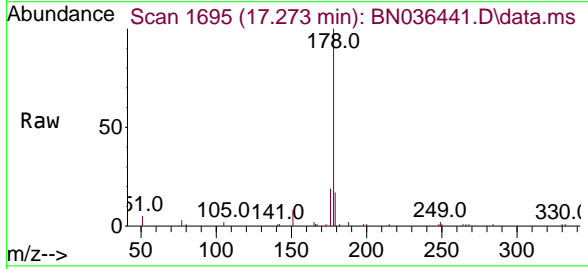
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

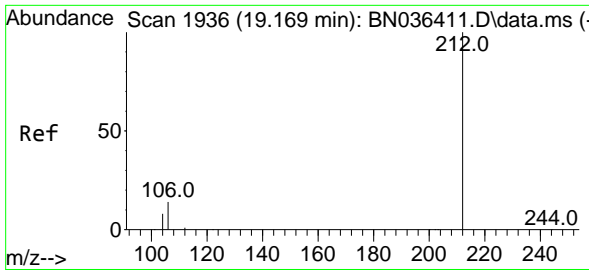
Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	9138	100		
176	19.5	15.7	15.7	23.5
179	15.2	12.4	12.4	18.6



#26
 Anthracene
 Concen: 0.379 ng
 RT: 17.273 min Scan# 1695
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

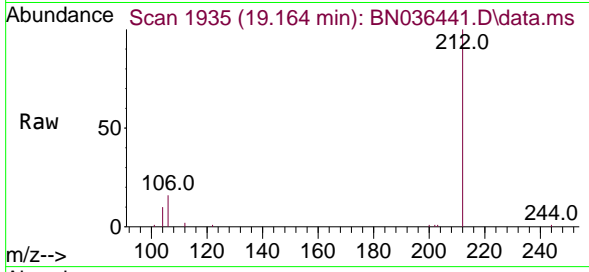
Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	7822	100		
176	18.9	14.9	14.9	22.3
179	15.3	12.4	12.4	18.6





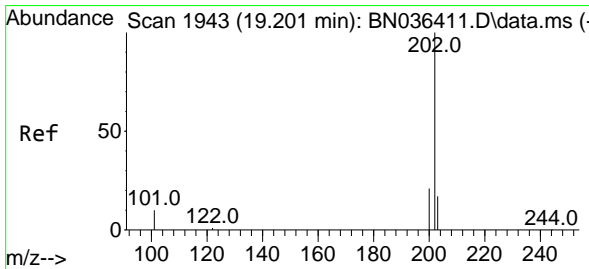
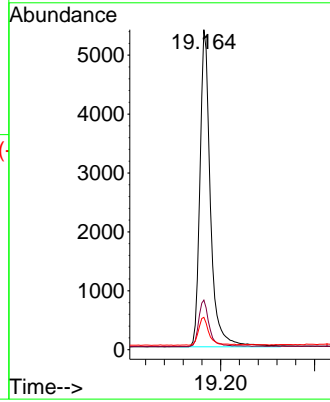
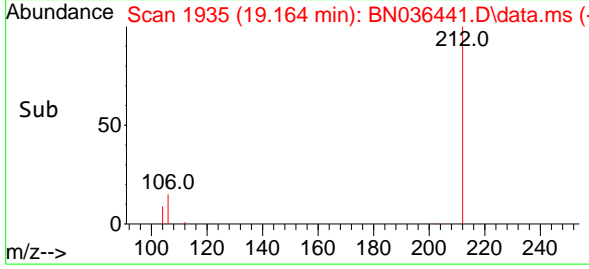
#27
 Fluoranthene-d10
 Concen: 0.373 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDC0.4

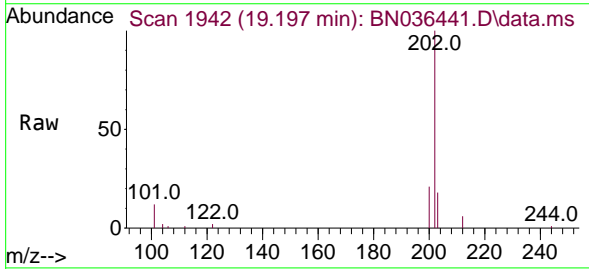


Tgt Ion: 212 Resp: 8393

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.5	17.3
104	8.8	7.1	10.7

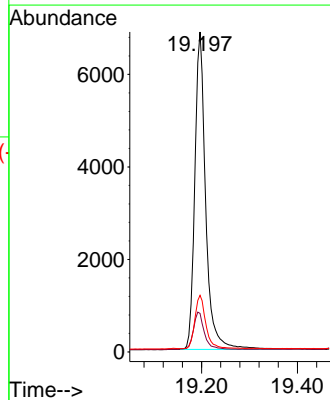
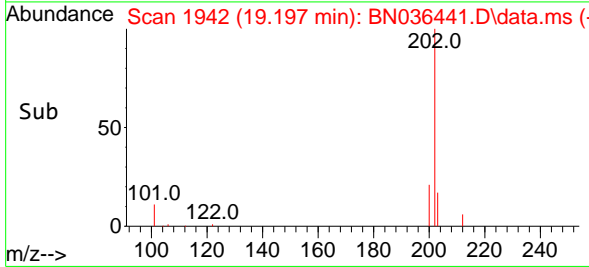


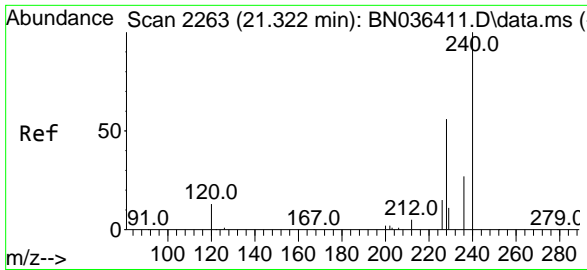
#28
 Fluoranthene
 Concen: 0.377 ng
 RT: 19.197 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48



Tgt Ion: 202 Resp: 10851

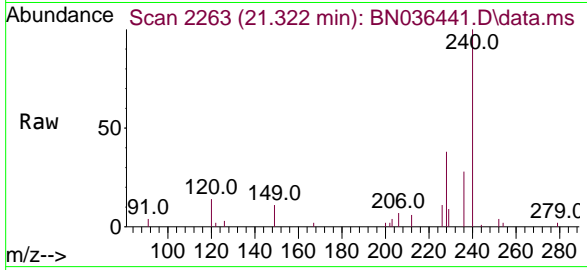
Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.2	13.8
203	17.1	13.4	20.0





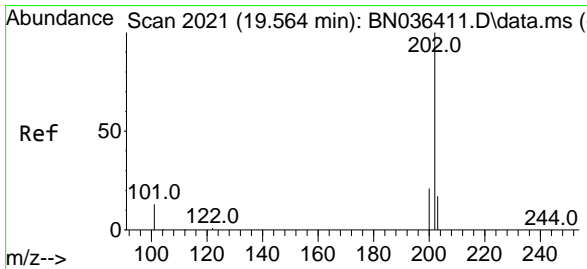
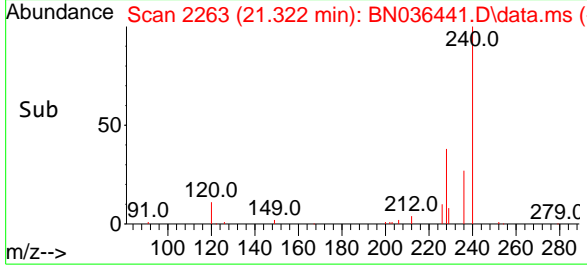
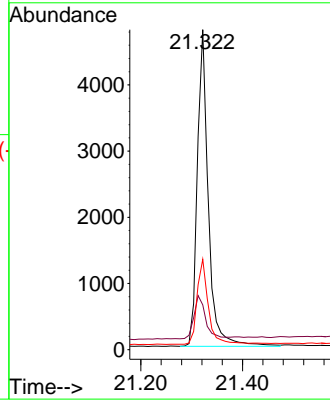
#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument : BNA_N
 ClientSampleId : SSTDC0.4



Tgt Ion:240 Resp: 7173

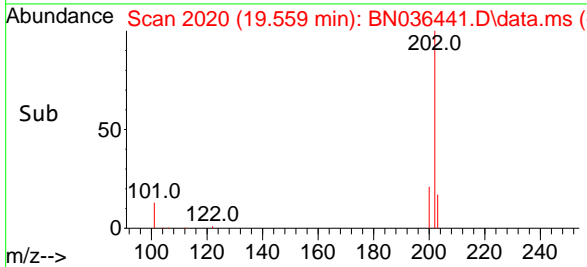
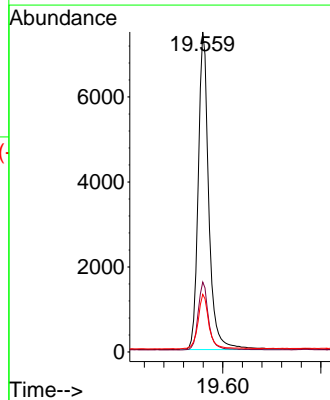
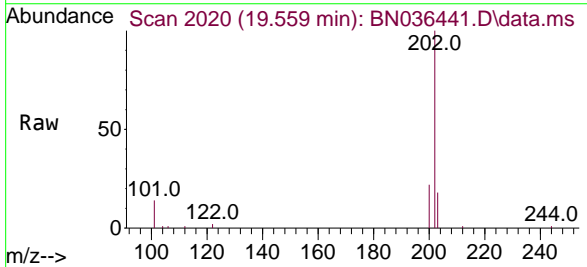
Ion	Ratio	Lower	Upper
240	100		
120	14.0	13.3	19.9
236	28.3	23.0	34.6

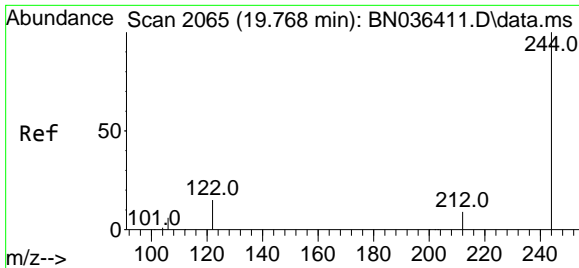


#30
 Pyrene
 Concen: 0.404 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion:202 Resp: 11169

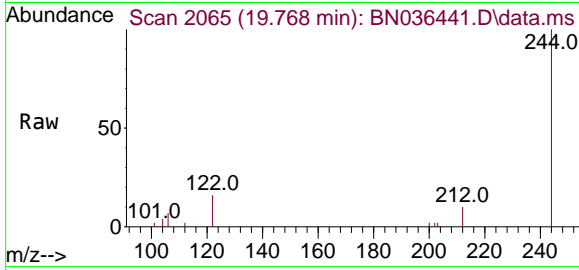
Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.7	13.9	20.9





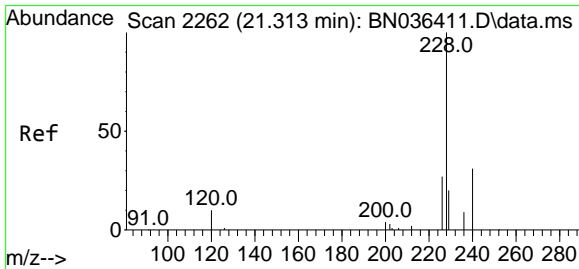
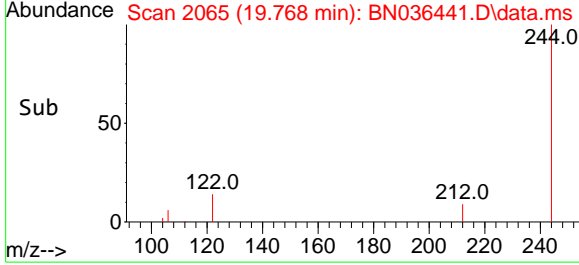
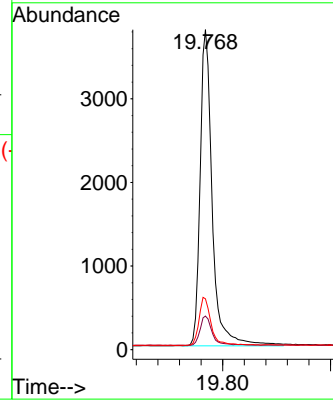
#31
 Terphenyl-d14
 Concen: 0.384 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4



Tgt Ion: 244 Resp: 5878

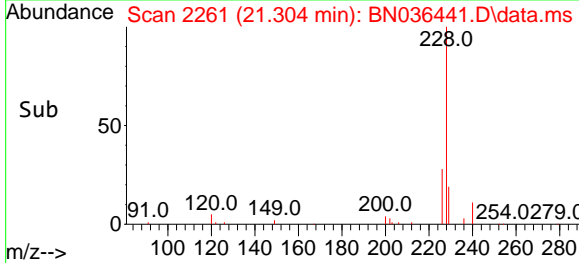
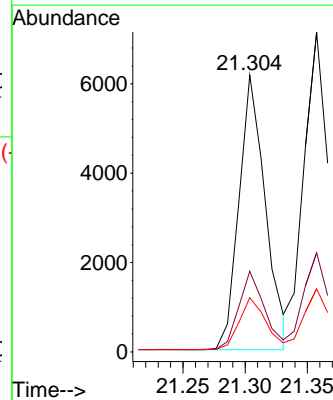
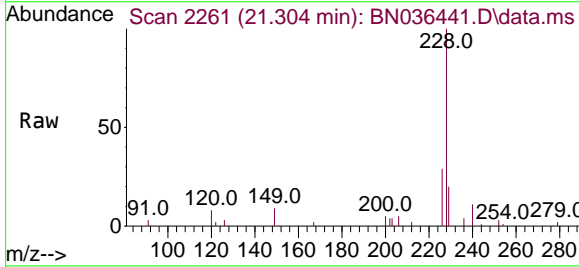
Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	15.9	12.8	19.2

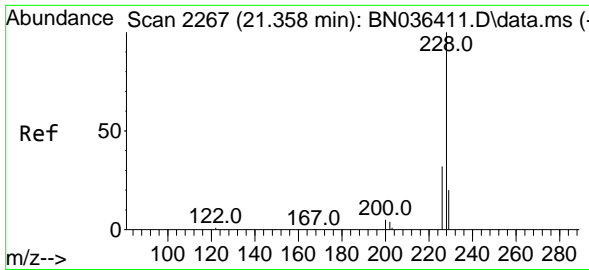


#32
 Benzo(a)anthracene
 Concen: 0.384 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion: 228 Resp: 9071

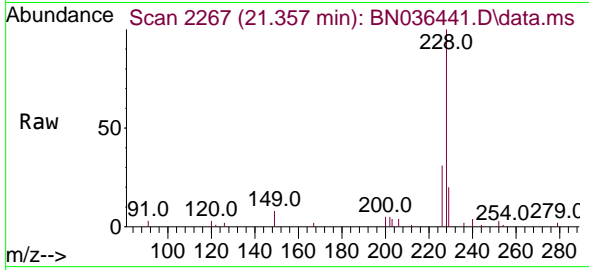
Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.2	33.2
229	19.6	16.5	24.7





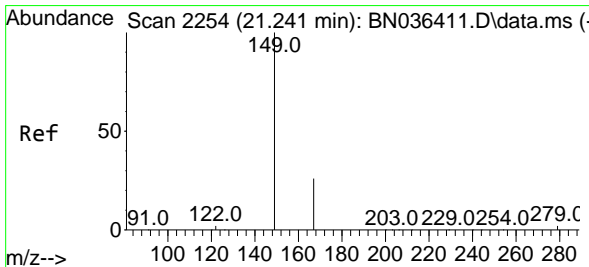
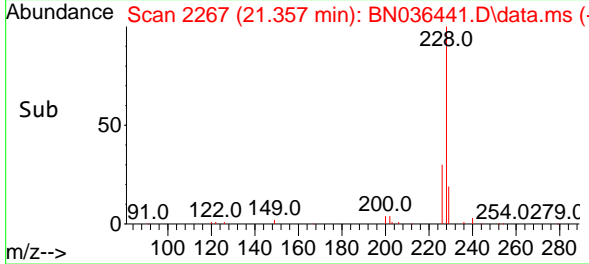
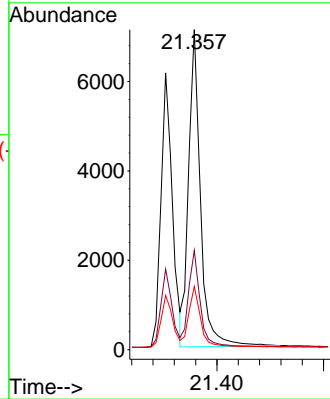
#33
Chrysene
 Concen: 0.428 ng
 RT: 21.357 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4



Tgt Ion: 228 Resp: 10950

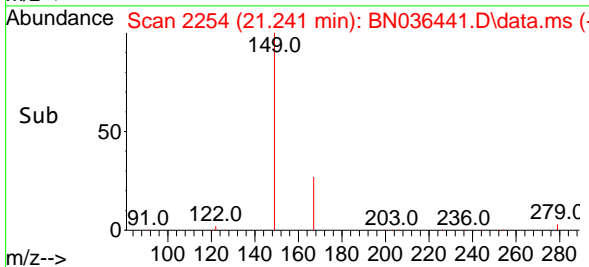
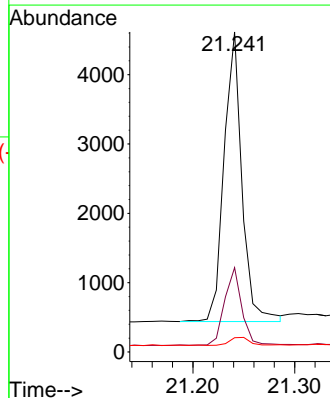
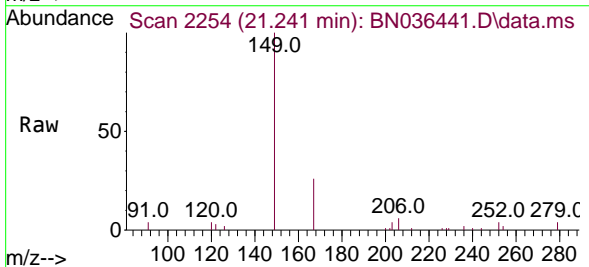
Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.5	38.3
229	19.8	16.4	24.6

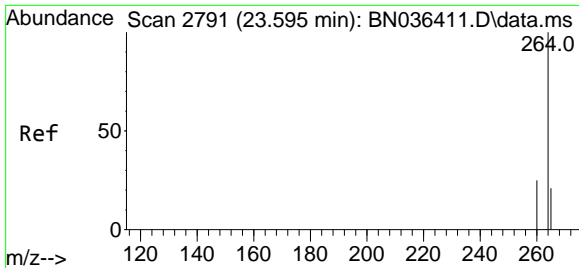


#34
Bis(2-ethylhexyl)phthalate
 Concen: 0.347 ng
 RT: 21.241 min Scan# 2254
 Delta R.T. -0.000 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Tgt Ion: 149 Resp: 5096

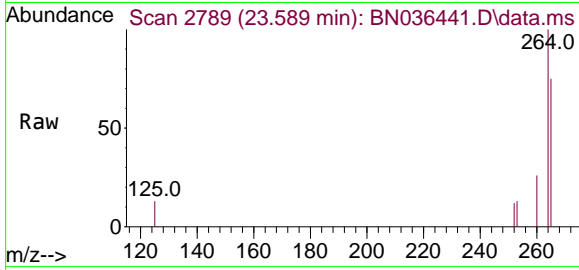
Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.2	31.8
279	3.1	2.7	4.1





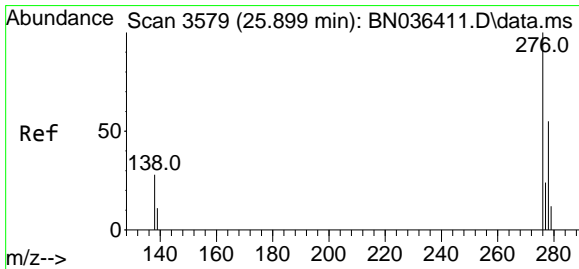
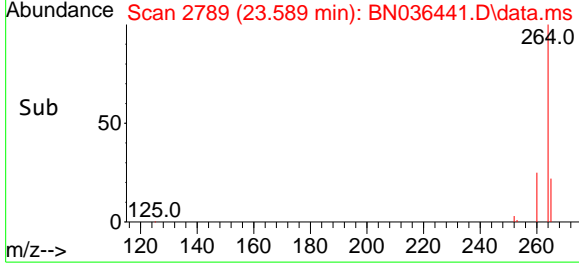
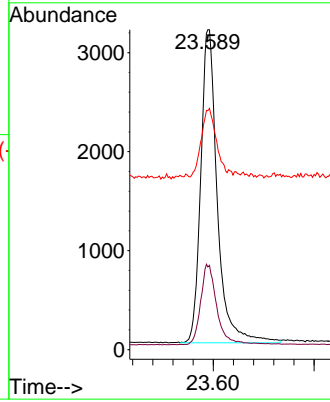
#35
Perylene-d12
 Concen: 0.400 ng
 RT: 23.589 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4

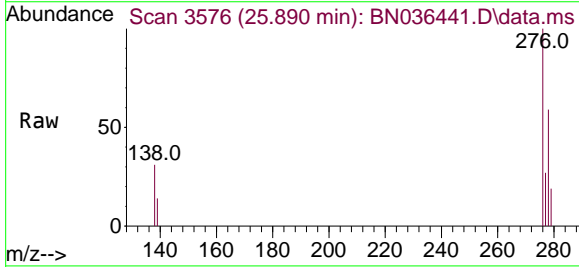


Tgt Ion:264 Resp: 7217

Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.9	31.3
265	74.7	60.7	91.1

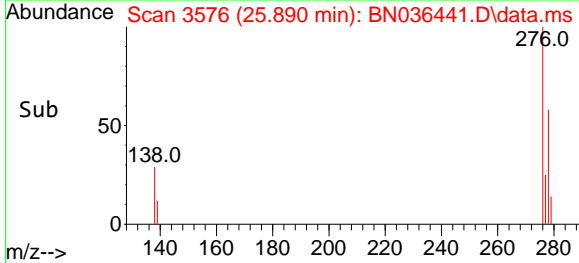
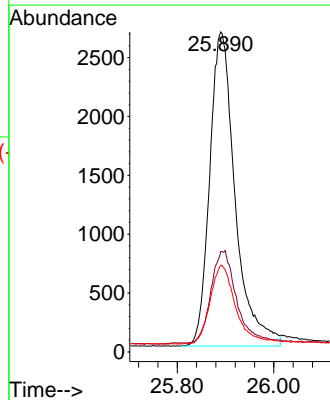


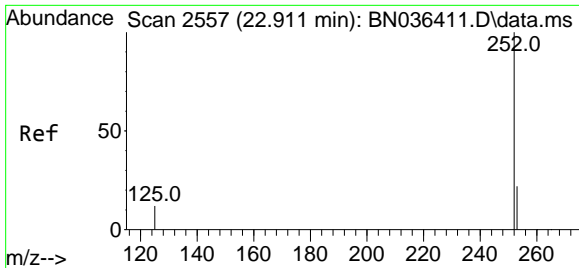
#36
Indeno(1,2,3-cd)pyrene
 Concen: 0.388 ng
 RT: 25.890 min Scan# 3576
 Delta R.T. -0.009 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48



Tgt Ion:276 Resp: 9792

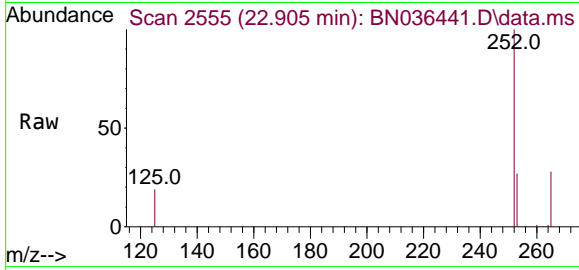
Ion	Ratio	Lower	Upper
276	100		
138	29.7	22.2	33.2
277	25.1	19.8	29.6





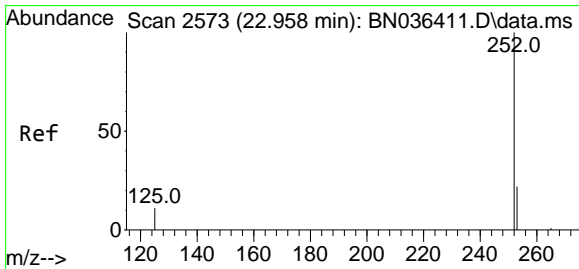
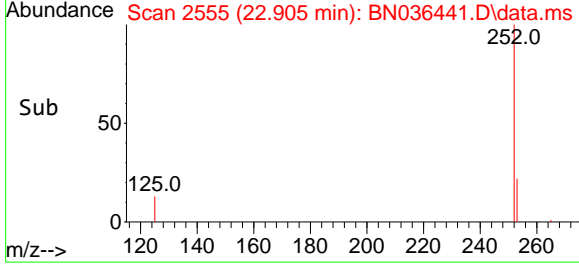
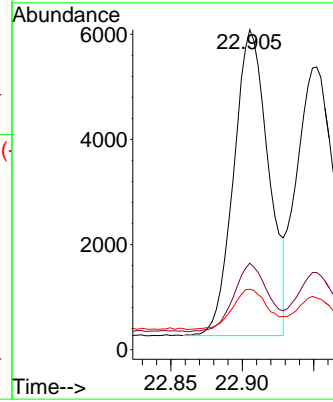
#37
 Benzo(b)fluoranthene
 Concen: 0.415 ng
 RT: 22.905 min Scan# 2555
 Delta R.T. -0.006 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

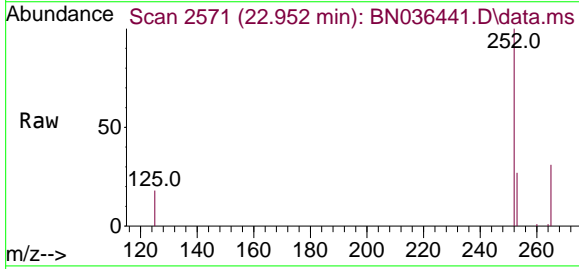


Tgt Ion:252 Resp: 9872

Ion	Ratio	Lower	Upper
252	100		
253	27.0	21.9	32.9
125	18.9	15.0	22.6

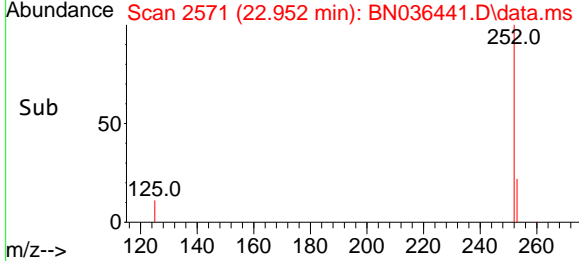
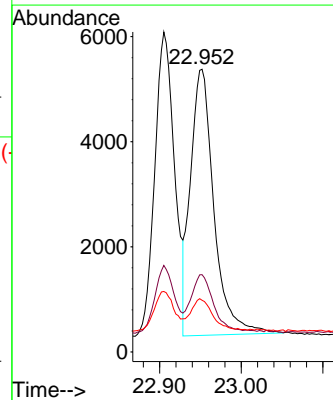


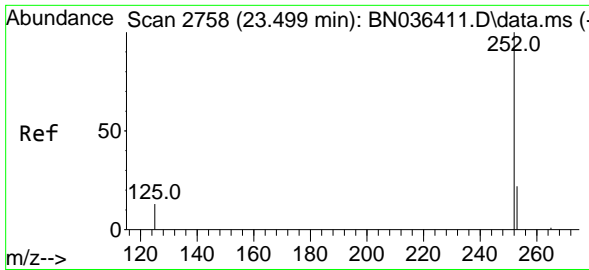
#38
 Benzo(k)fluoranthene
 Concen: 0.413 ng
 RT: 22.952 min Scan# 2571
 Delta R.T. -0.006 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48



Tgt Ion:252 Resp: 10113

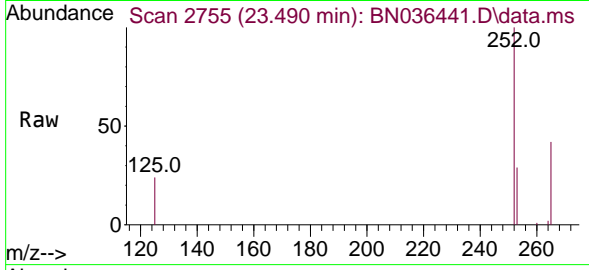
Ion	Ratio	Lower	Upper
252	100		
253	27.3	22.2	33.4
125	18.2	15.0	22.4





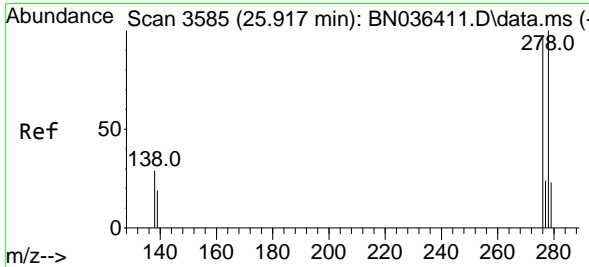
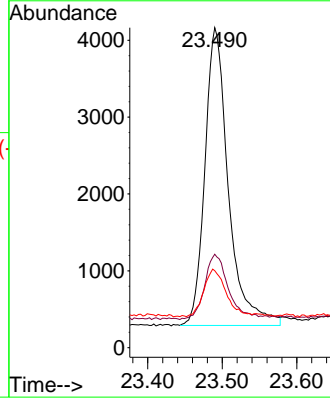
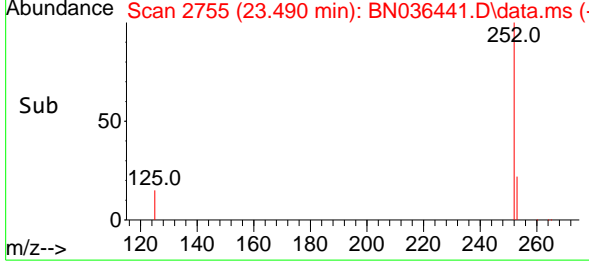
#39
 Benzo(a)pyrene
 Concen: 0.409 ng
 RT: 23.490 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

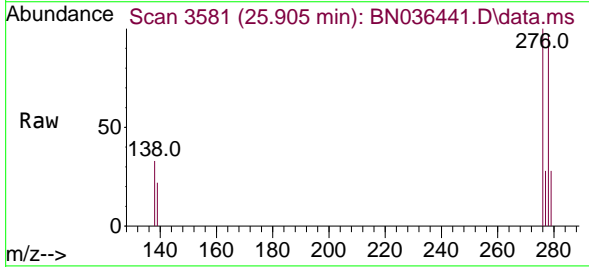


Tgt Ion:252 Resp: 8492

Ion	Ratio	Lower	Upper
252	100		
253	29.2	24.4	36.6
125	24.1	18.2	27.2

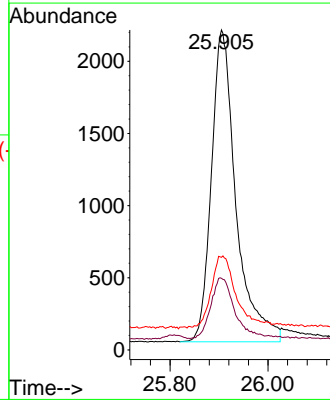
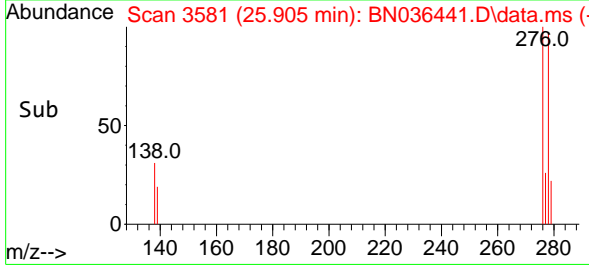


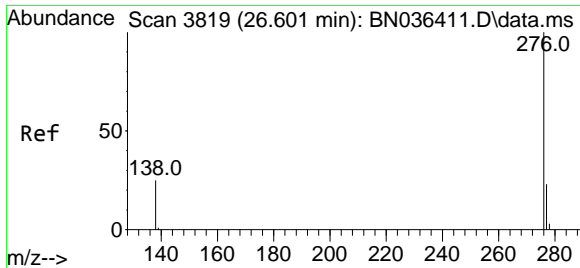
#40
 Dibenzo(a,h)anthracene
 Concen: 0.378 ng
 RT: 25.905 min Scan# 3581
 Delta R.T. -0.012 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48



Tgt Ion:278 Resp: 7530

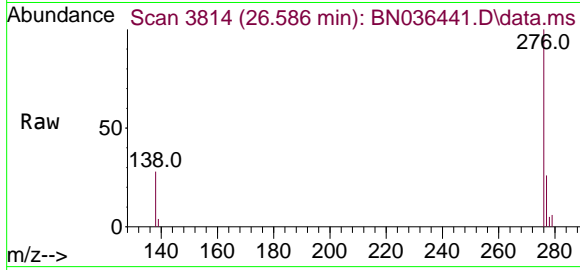
Ion	Ratio	Lower	Upper
278	100		
139	22.4	18.5	27.7
279	28.9	24.8	37.2





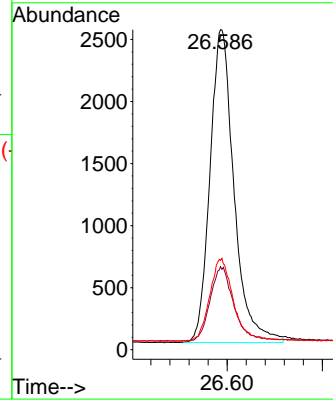
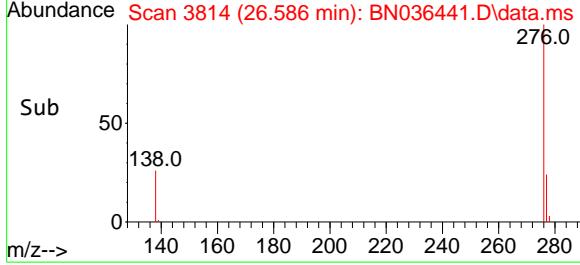
#41
 Benzo(g,h,i)perylene
 Concen: 0.392 ng
 RT: 26.586 min Scan# 3814
 Delta R.T. -0.015 min
 Lab File: BN036441.D
 Acq: 12 Feb 2025 15:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



Tgt Ion: 276 Resp: 8843

Ion	Ratio	Lower	Upper
276	100		
277	26.0	20.7	31.1
138	27.9	21.8	32.6



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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036441.D
 Acq On : 12 Feb 2025 15:48
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Feb 12 16:13:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	100	0.00
2	1,4-Dioxane	0.438	0.428	2.3	98	0.00
3	n-Nitrosodimethylamine	0.760	0.757	0.4	99	0.00
4 S	2-Fluorophenol	0.945	0.868	8.1	92	0.00
5 S	Phenol-d6	1.109	0.993	10.5	96	0.00
6	bis(2-Chloroethyl)ether	1.160	1.141	1.6	105	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
8 S	Nitrobenzene-d5	0.395	0.382	3.3	103	0.00
9	Naphthalene	1.154	1.122	2.8	99	0.00
10	Hexachlorobutadiene	0.281	0.276	1.8	96	0.00
11 SURR	2-Methylnaphthalene-d10	0.615	0.594	3.4	97	0.00
12	2-Methylnaphthalene	0.757	0.727	4.0	97	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
14 S	2,4,6-Tribromophenol	0.198	0.161	18.7	90	0.00
15 S	2-Fluorobiphenyl	1.504	1.361	9.5	103	0.00
16	Acenaphthylene	1.767	1.604	9.2	99	0.00
17	Acenaphthene	1.180	1.097	7.0	100	0.00
18	Fluorene	1.680	1.566	6.8	98	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.078	0.062	20.5	88	0.00
21	4-Bromophenyl-phenylether	0.239	0.232	2.9	98	0.00
22	Hexachlorobenzene	0.295	0.295	0.0	101	-0.01
23	Atrazine	0.199	0.178	10.6	92	-0.01
24	Pentachlorophenol	0.140	0.115	17.9	91	0.00
25	Phenanthrene	1.156	1.129	2.3	100	0.00
26	Anthracene	1.020	0.967	5.2	97	0.00
27 SURR	Fluoranthene-d10	1.112	1.037	6.7	95	0.00
28	Fluoranthene	1.421	1.341	5.6	96	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	96	0.00
30	Pyrene	1.541	1.557	-1.0	97	0.00
31 S	Terphenyl-d14	0.854	0.819	4.1	92	0.00
32	Benzo(a)anthracene	1.316	1.265	3.9	94	0.00
33	Chrysene	1.425	1.527	-7.2	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.710	13.4	88	0.00
35 I	Perylene-d12	1.000	1.000	0.0	93	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.357	2.9	92	0.00
37	Benzo(b)fluoranthene	1.317	1.368	-3.9	101	0.00
38	Benzo(k)fluoranthene	1.356	1.401	-3.3	96	0.00
39 C	Benzo(a)pyrene	1.150	1.177	-2.3	100	0.00
40	Dibenzo(a,h)anthracene	1.103	1.043	5.4	91	-0.01
41	Benzo(g,h,i)perylene	1.250	1.225	2.0	91	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036441.D
 Acq On : 12 Feb 2025 15:48
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Feb 12 16:13:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	100	0.00
2	1,4-Dioxane	0.400	0.391	2.3	98	0.00
3	n-Nitrosodimethylamine	0.400	0.398	0.5	99	0.00
4 S	2-Fluorophenol	0.400	0.367	8.3	92	0.00
5 S	Phenol-d6	0.400	0.358	10.5	96	0.00
6	bis(2-Chloroethyl)ether	0.400	0.393	1.8	105	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	99	0.00
8 S	Nitrobenzene-d5	0.400	0.387	3.3	103	0.00
9	Naphthalene	0.400	0.389	2.8	99	0.00
10	Hexachlorobutadiene	0.400	0.393	1.8	96	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.386	3.5	97	0.00
12	2-Methylnaphthalene	0.400	0.385	3.8	97	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	104	0.00
14 S	2,4,6-Tribromophenol	0.400	0.325	18.8	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.362	9.5	103	0.00
16	Acenaphthylene	0.400	0.363	9.3	99	0.00
17	Acenaphthene	0.400	0.372	7.0	100	0.00
18	Fluorene	0.400	0.373	6.8	98	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.318	20.5	88	0.00
21	4-Bromophenyl-phenylether	0.400	0.389	2.8	98	0.00
22	Hexachlorobenzene	0.400	0.400	0.0	101	-0.01
23	Atrazine	0.400	0.358	10.5	92	-0.01
24	Pentachlorophenol	0.400	0.329	17.8	91	0.00
25	Phenanthrene	0.400	0.391	2.3	100	0.00
26	Anthracene	0.400	0.379	5.3	97	0.00
27 SURR	Fluoranthene-d10	0.400	0.373	6.8	95	0.00
28	Fluoranthene	0.400	0.377	5.8	96	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	96	0.00
30	Pyrene	0.400	0.404	-1.0	97	0.00
31 S	Terphenyl-d14	0.400	0.384	4.0	92	0.00
32	Benzo(a)anthracene	0.400	0.384	4.0	94	0.00
33	Chrysene	0.400	0.428	-7.0	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.347	13.3	88	0.00
35 I	Perylene-d12	0.400	0.400	0.0	93	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.388	3.0	92	0.00
37	Benzo(b)fluoranthene	0.400	0.415	-3.7	101	0.00
38	Benzo(k)fluoranthene	0.400	0.413	-3.2	96	0.00
39 C	Benzo(a)pyrene	0.400	0.409	-2.2	100	0.00
40	Dibenzo(a,h)anthracene	0.400	0.378	5.5	91	-0.01
41	Benzo(g,h,i)perylene	0.400	0.392	2.0	91	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETRO6
 Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG No.: Q1347
 Instrument ID: BNA_N Calibration Date/Time: 02/13/2025 01:23
 Lab File ID: BN036457.D Init. Calib. Date(s): 02/10/2025 02/10/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:25 16:00
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.606		-1.5	50.0
Fluoranthene-d10	1.112	1.046		-5.9	50.0
2-Fluorophenol	0.945	0.925		-2.1	50.0
Phenol-d6	1.109	1.094		-1.4	50.0
Nitrobenzene-d5	0.395	0.380		-3.8	50.0
2-Fluorobiphenyl	1.504	1.452		-3.5	50.0
2,4,6-Tribromophenol	0.198	0.171		-13.6	50.0
Terphenyl-d14	0.854	0.894		4.7	50.0
1,4-Dioxane	0.438	0.427		-2.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036457.D
 Acq On : 13 Feb 2025 01:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

Quant Time: Feb 13 01:53:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.746	152	2624	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6835	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.388	164	4860	0.400	ng	0.00	
19) Phenanthrene-d10	17.124	188	10226	0.400	ng	#-0.01	
29) Chrysene-d12	21.313	240	8310	0.400	ng	0.00	
35) Perylene-d12	23.587	264	7438	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	2428	0.391	ng	0.00	
5) Phenol-d6	6.923	99	2870	0.394	ng	-0.01	
8) Nitrobenzene-d5	8.897	82	2596	0.385	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	4140	0.394	ng	-0.01	
14) 2,4,6-Tribromophenol	15.883	330	829	0.344	ng	0.00	
15) 2-Fluorobiphenyl	13.009	172	7055	0.386	ng	-0.01	
27) Fluoranthene-d10	19.164	212	10695	0.376	ng	0.00	
31) Terphenyl-d14	19.764	244	7428	0.419	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	1120	0.390	ng		97
3) n-Nitrosodimethylamine	3.579	42	1966	0.394	ng		96
6) bis(2-Chloroethyl)ether	7.176	93	2948	0.387	ng		99
9) Naphthalene	10.584	128	7591	0.385	ng		99
10) Hexachlorobutadiene	10.883	225	1864	0.388	ng	#	100
12) 2-Methylnaphthalene	12.207	142	5138	0.397	ng		98
16) Acenaphthylene	14.110	152	7797	0.363	ng		99
17) Acenaphthene	14.452	154	5235	0.365	ng		99
18) Fluorene	15.435	166	7538	0.369	ng		99
20) 4,6-Dinitro-2-methylph...	15.523	198	689	0.343	ng	#	79
21) 4-Bromophenyl-phenylether	16.329	248	2408	0.395	ng	#	80
22) Hexachlorobenzene	16.441	284	2984	0.396	ng		98
23) Atrazine	16.603	200	1883	0.370	ng		95
24) Pentachlorophenol	16.789	266	1212	0.339	ng		100
25) Phenanthrene	17.173	178	11424	0.387	ng		100
26) Anthracene	17.260	178	10049	0.386	ng		99
28) Fluoranthene	19.192	202	13554	0.373	ng		99
30) Pyrene	19.555	202	13707	0.428	ng		99
32) Benzo(a)anthracene	21.304	228	10744	0.393	ng		100
33) Chrysene	21.358	228	11936	0.403	ng		98
34) Bis(2-ethylhexyl)phtha...	21.232	149	6561	0.385	ng		100
36) Indeno(1,2,3-cd)pyrene	25.885	276	9602	0.369	ng		98
37) Benzo(b)fluoranthene	22.903	252	10776m	0.440	ng		
38) Benzo(k)fluoranthene	22.946	252	10477	0.416	ng		99
39) Benzo(a)pyrene	23.487	252	8912	0.417	ng	#	92
40) Dibenzo(a,h)anthracene	25.899	278	7254	0.354	ng		99
41) Benzo(g,h,i)perylene	26.583	276	8333	0.358	ng		99

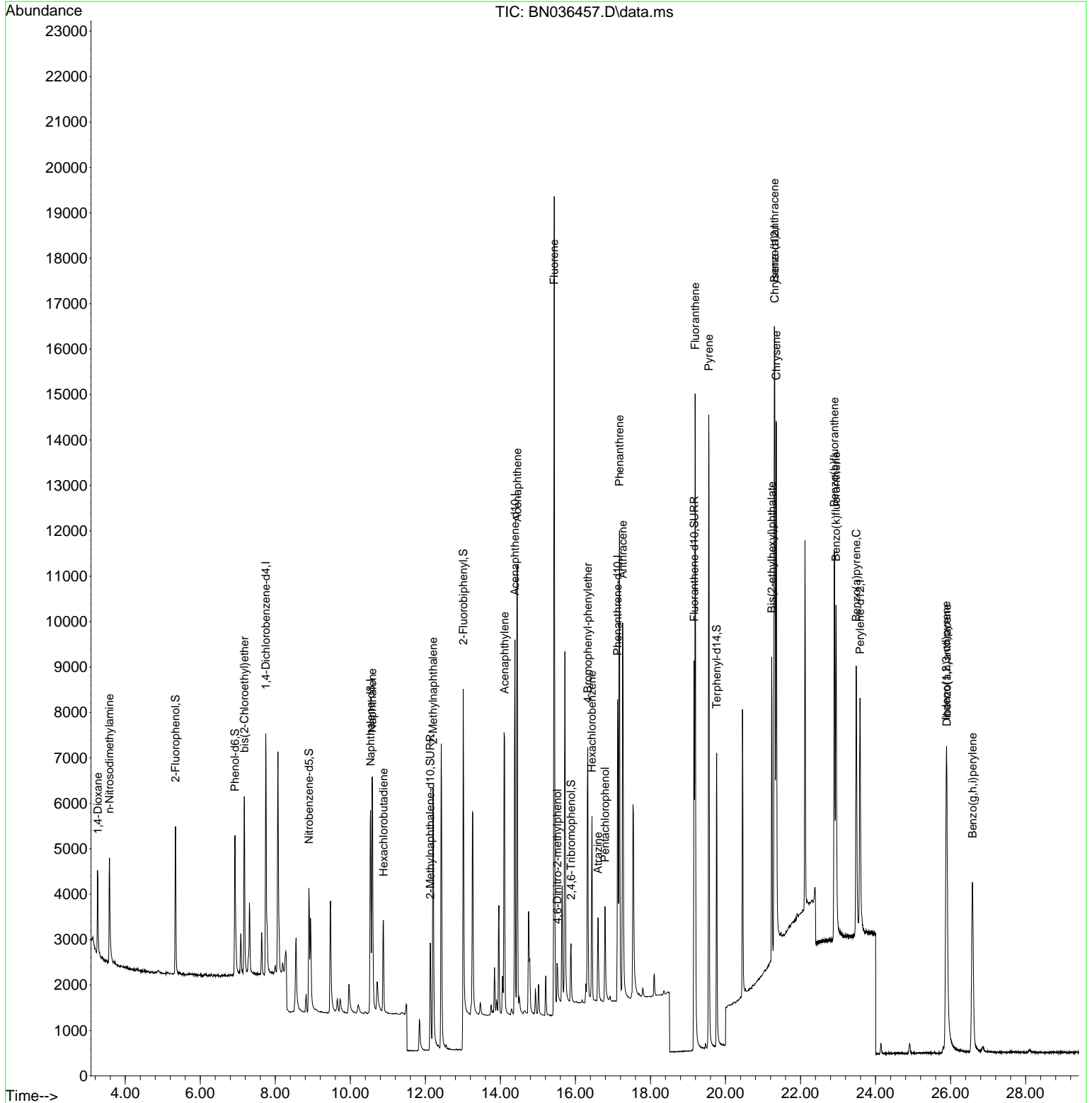
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Acq On : 13 Feb 2025 01:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

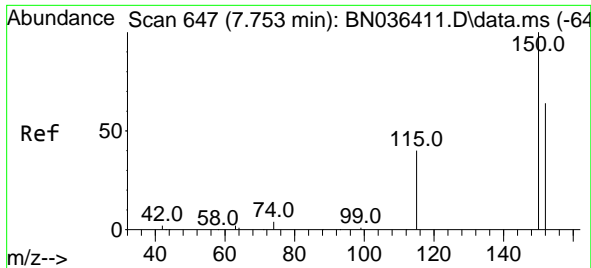
Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Feb 13 01:53:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

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 Supervised By :Jagrut Upadhyay 02/13/2025

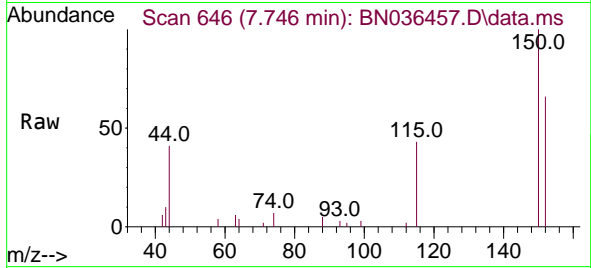


- 1
- 2
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- 16
- 17
- 18



#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.746 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

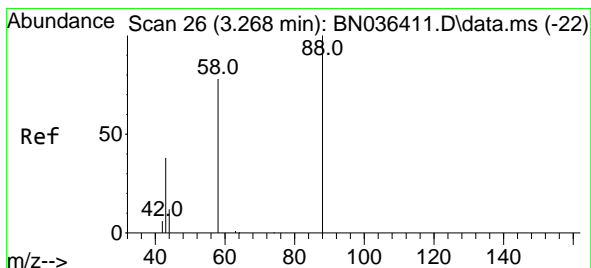
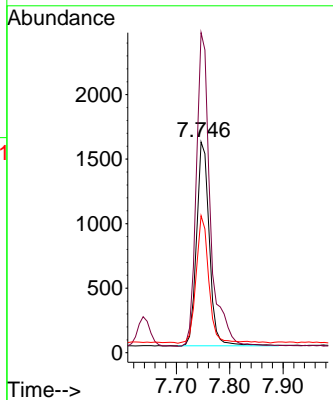
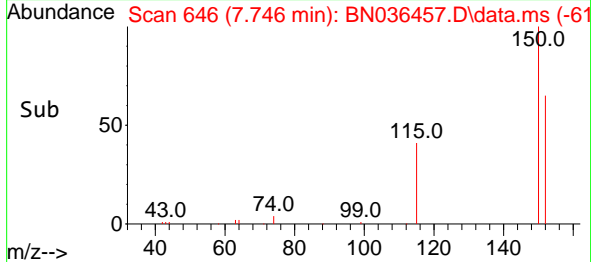
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



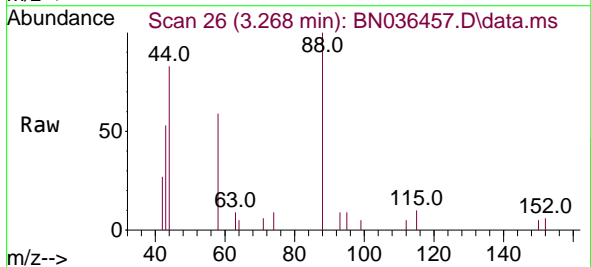
Tgt Ion: 152 Resp: 2624
 Ion Ratio Lower Upper
 152 100
 150 151.9 123.7 185.5
 115 65.0 52.5 78.7

Manual Integrations
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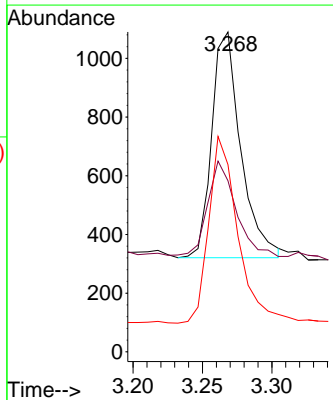
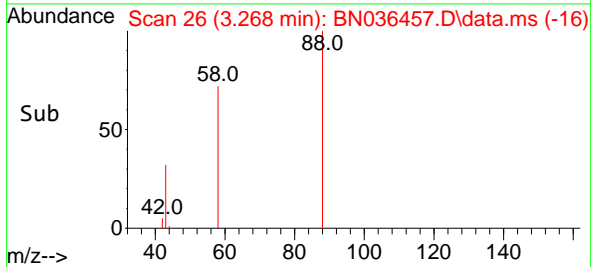
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

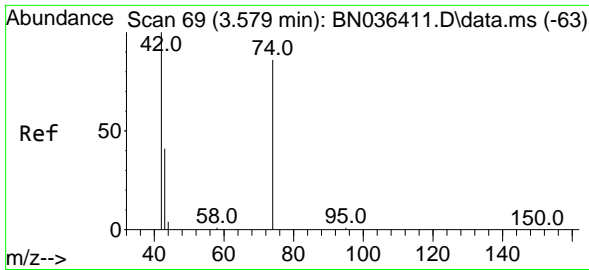


#2
 1,4-Dioxane
 Concen: 0.390 ng
 RT: 3.268 min Scan# 26
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



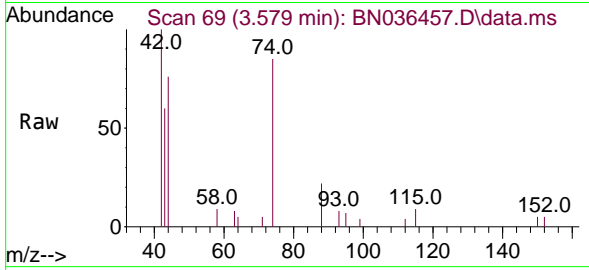
Tgt Ion: 88 Resp: 1120
 Ion Ratio Lower Upper
 88 100
 43 41.2 33.7 50.5
 58 82.1 68.9 103.3





#3
 n-Nitrosodimethylamine
 Concen: 0.394 ng
 RT: 3.579 min Scan# 69
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

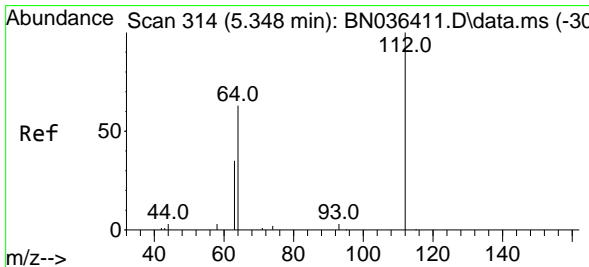
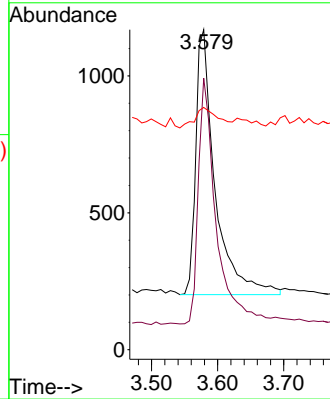
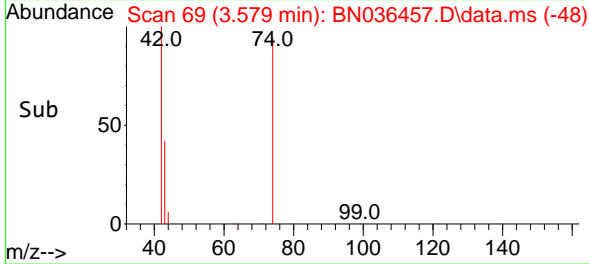
Instrument :
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 ClientSampleId :
 SSTDCCC0.4EC



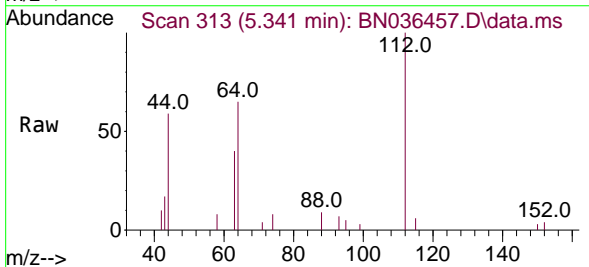
Tgt Ion: 42 Resp: 1960
 Ion Ratio Lower Upper
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 74 85.8 71.8 107.6
 44 9.3 7.8 11.6

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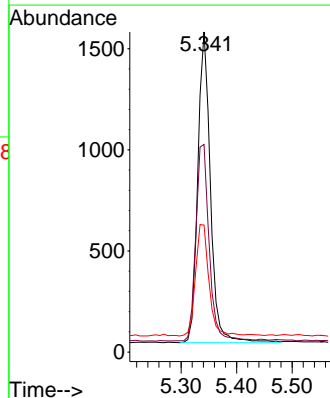
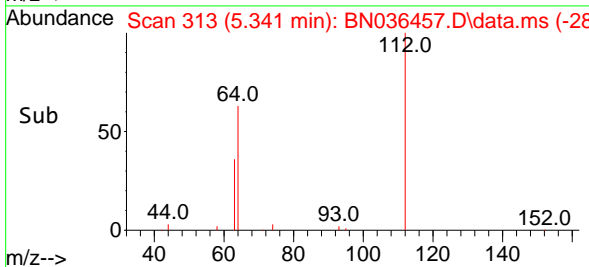
Reviewed By :Anahy Claudio 02/13/2025
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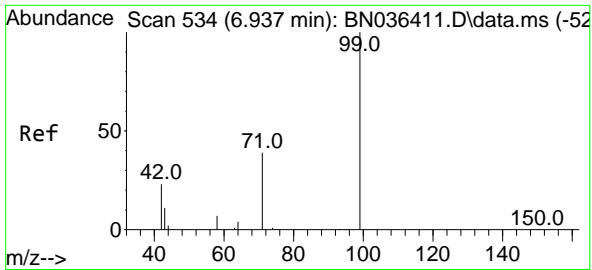


#4
 2-Fluorophenol
 Concen: 0.391 ng
 RT: 5.341 min Scan# 313
 Delta R.T. -0.007 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



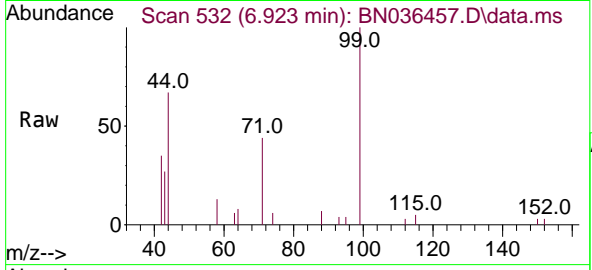
Tgt Ion:112 Resp: 2428
 Ion Ratio Lower Upper
 112 100
 64 66.3 53.4 80.0
 63 37.8 30.3 45.5





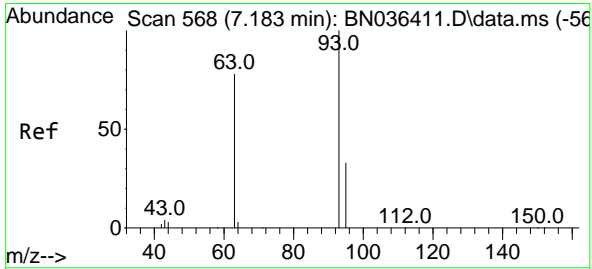
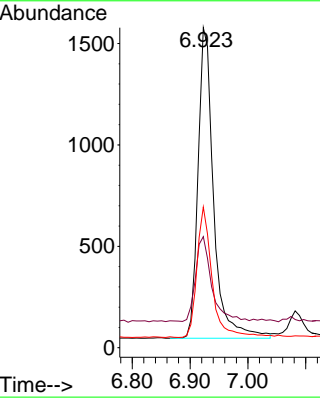
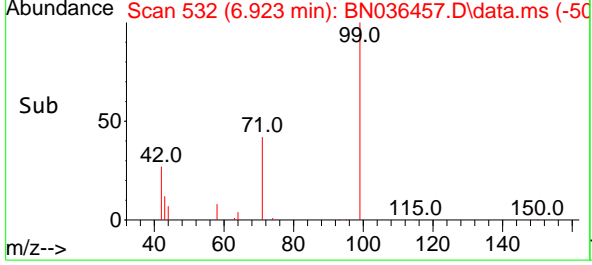
#5
 Phenol-d6
 Concen: 0.394 ng
 RT: 6.923 min Scan# 51
 Delta R.T. -0.014 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

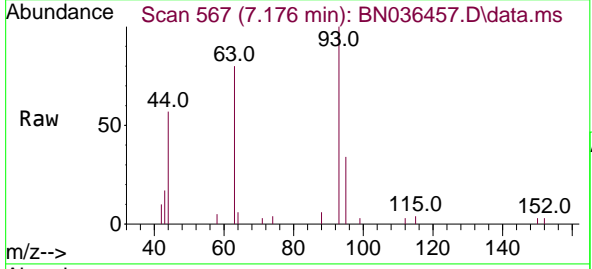


Tgt Ion: 99 Resp: 2870
 Ion Ratio Lower Upper
 99 100
 42 28.0 21.7 32.5
 71 41.1 32.6 49.0

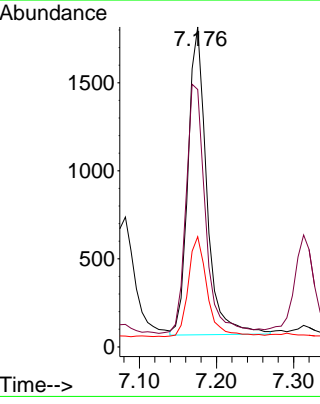
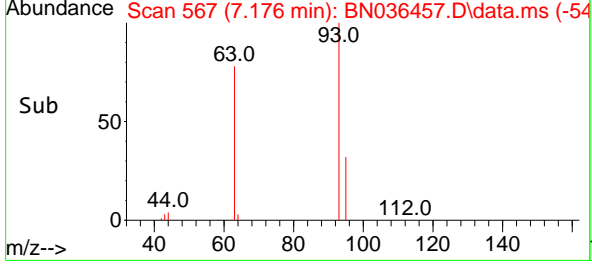
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 Supervised By :Jagrut Upadhyay 02/13/2025

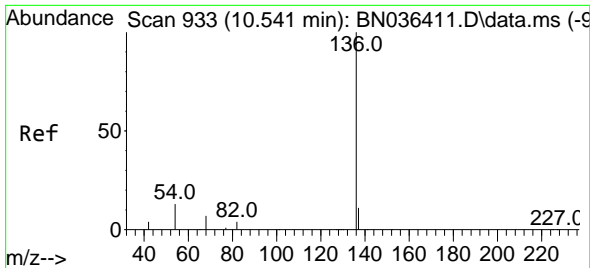


#6
 bis(2-Chloroethyl)ether
 Concen: 0.387 ng
 RT: 7.176 min Scan# 567
 Delta R.T. -0.007 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



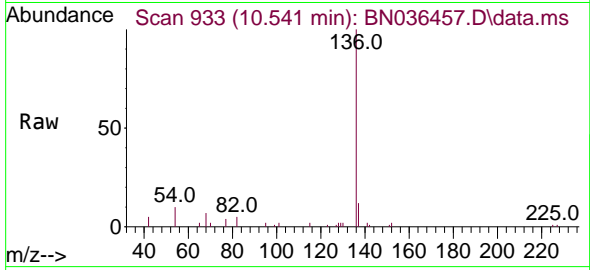
Tgt Ion: 93 Resp: 2948
 Ion Ratio Lower Upper
 93 100
 63 83.9 66.3 99.5
 95 32.7 26.2 39.4





#7
Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

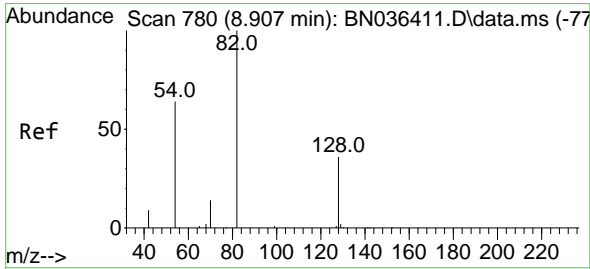
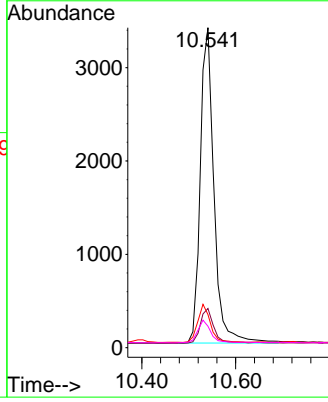
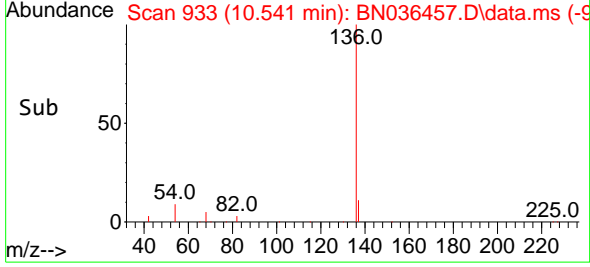


Tgt Ion: 136 Resp: 683

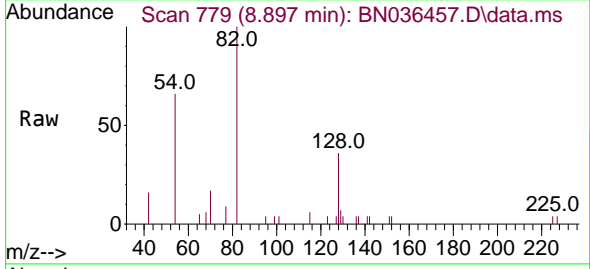
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.1	15.1
54	10.4	11.8	17.6
68	6.7	7.2	10.8

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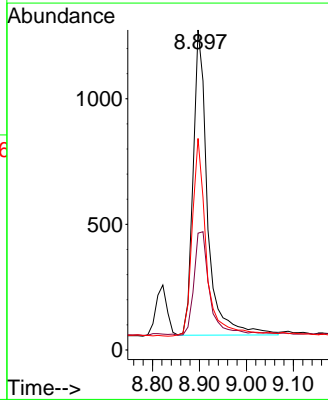
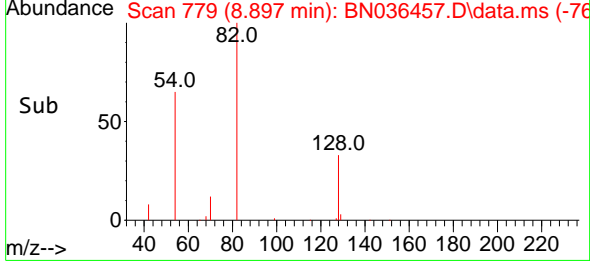


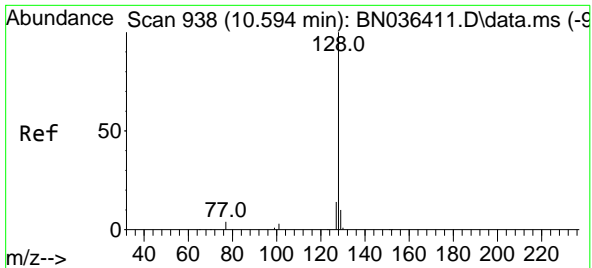
#8
Nitrobenzene-d5
 Concen: 0.385 ng
 RT: 8.897 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion: 82 Resp: 2596

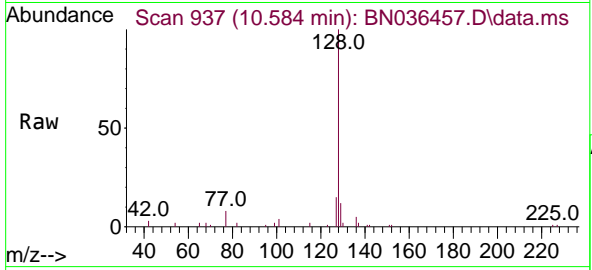
Ion	Ratio	Lower	Upper
82	100		
128	36.5	31.9	47.9
54	66.1	53.1	79.7





#9
Naphthalene
 Concen: 0.385 ng
 RT: 10.584 min Scan# 911
 Delta R.T. -0.011 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

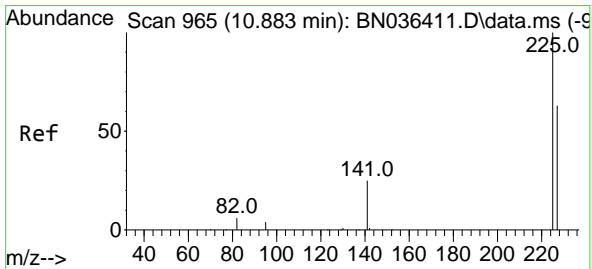
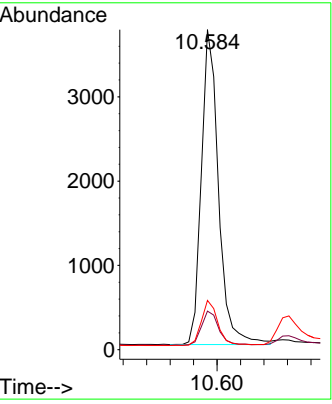
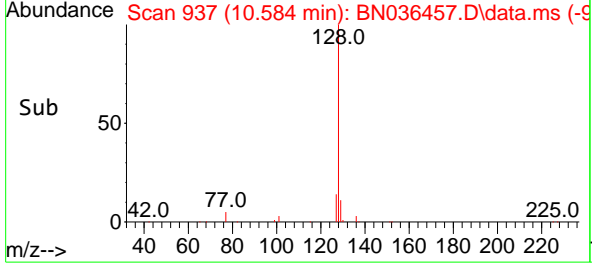


Tgt Ion:128 Resp: 759

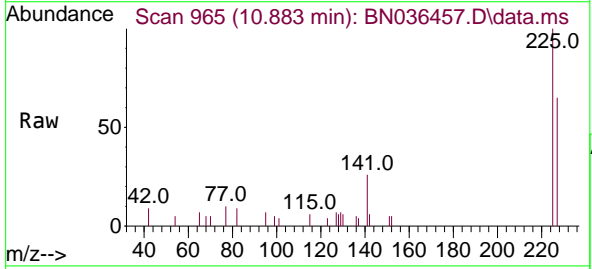
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.6	14.4
127	15.4	12.0	18.0

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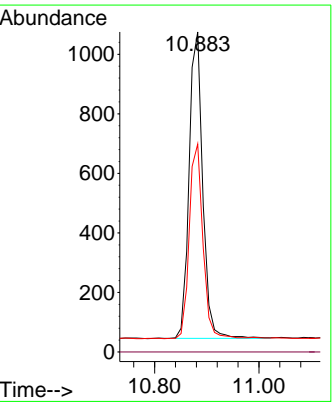
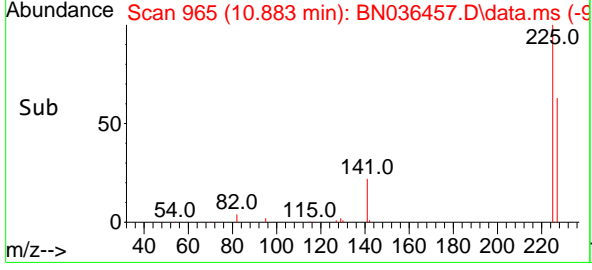


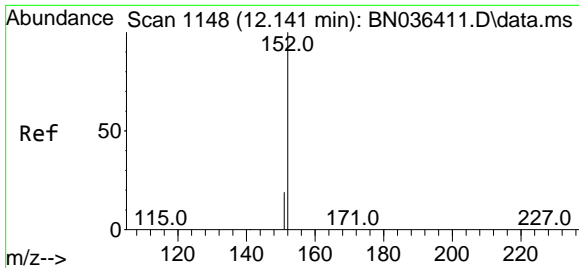
#10
Hexachlorobutadiene
 Concen: 0.388 ng
 RT: 10.883 min Scan# 965
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion:225 Resp: 1864

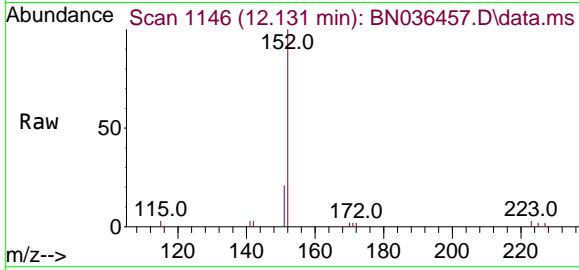
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.9	76.3





#11
 2-Methylnaphthalene-d10
 Concen: 0.394 ng
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

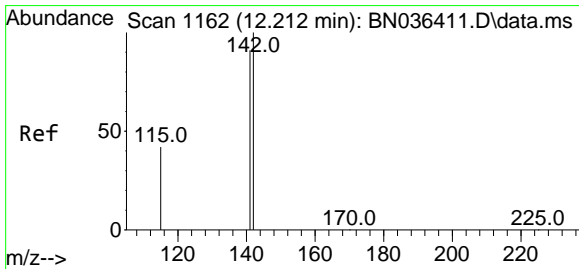
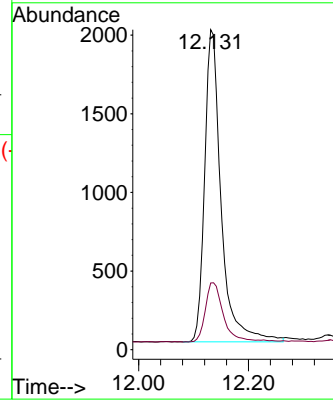
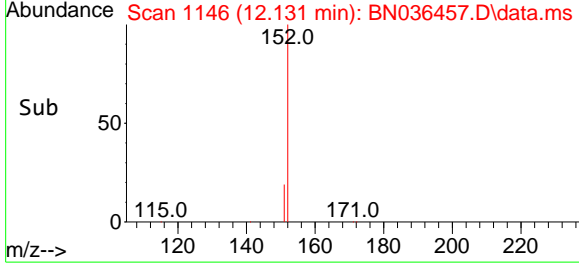
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC



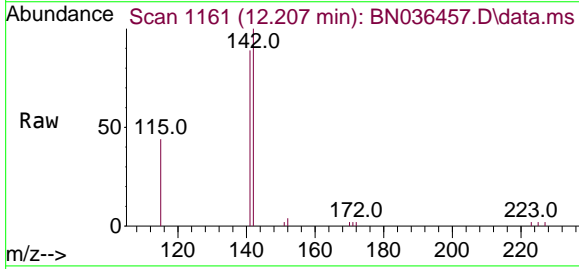
Tgt Ion:152 Resp: 4140
 Ion Ratio Lower Upper
 152 100
 151 21.1 16.6 25.0

Manual Integrations
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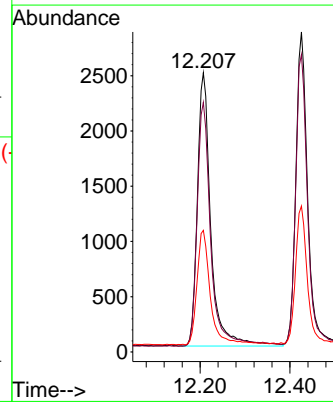
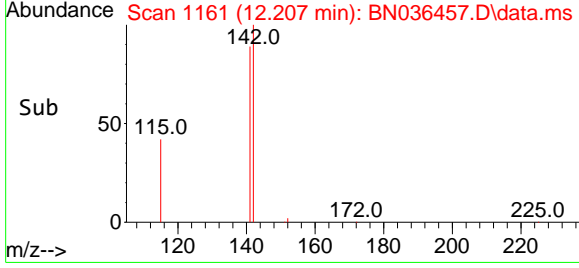
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

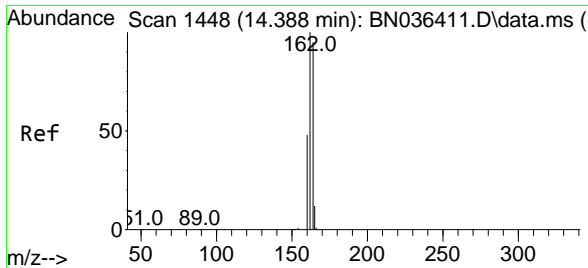


#12
 2-Methylnaphthalene
 Concen: 0.397 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



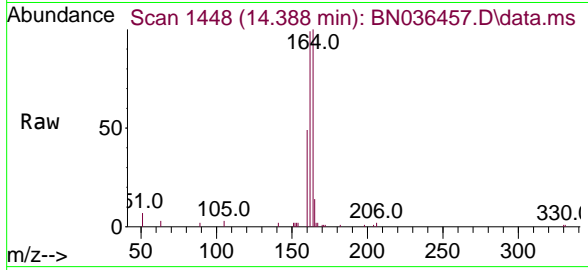
Tgt Ion:142 Resp: 5138
 Ion Ratio Lower Upper
 142 100
 141 89.4 72.8 109.2
 115 43.6 35.5 53.3





#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.388 min Scan# 1448
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4EC

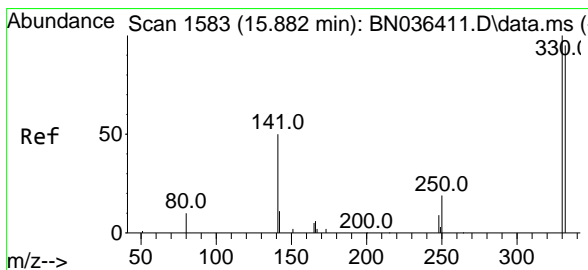
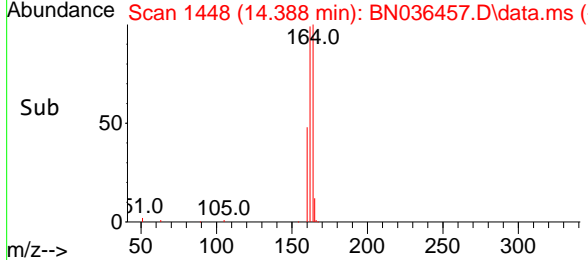
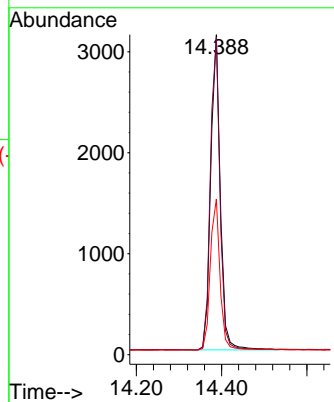


Tgt Ion:164 Resp: 4860

Ion	Ratio	Lower	Upper
164	100		
162	99.2	84.1	126.1
160	48.7	41.4	62.0

Manual Integrations
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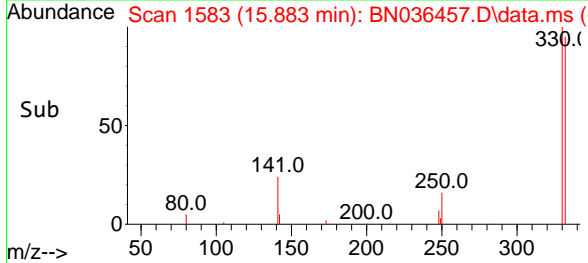
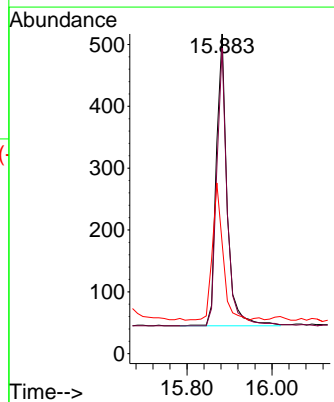
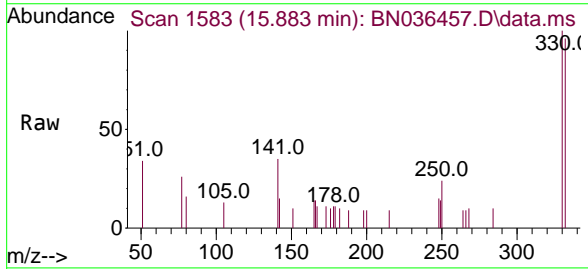
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

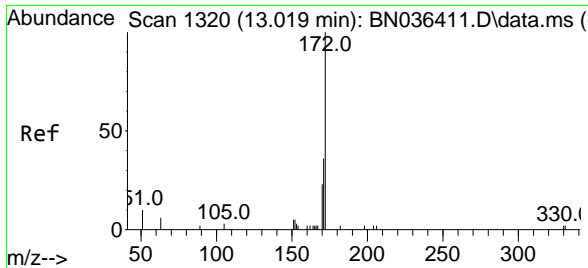


#14
 2,4,6-Tribromophenol
 Concen: 0.344 ng
 RT: 15.883 min Scan# 1583
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion:330 Resp: 829

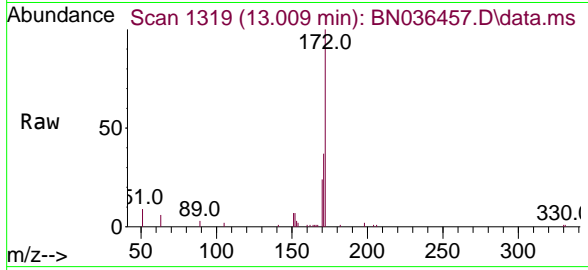
Ion	Ratio	Lower	Upper
330	100		
332	92.8	76.6	114.8
141	45.8	37.8	56.8





#15
 2-Fluorobiphenyl
 Concen: 0.386 ng
 RT: 13.009 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

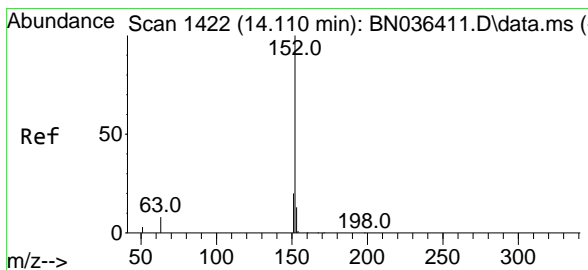
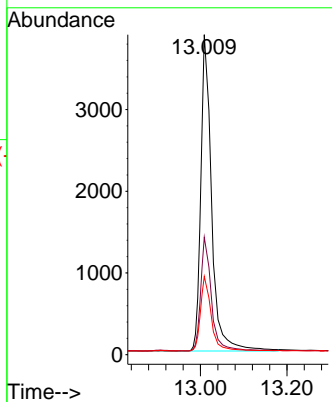
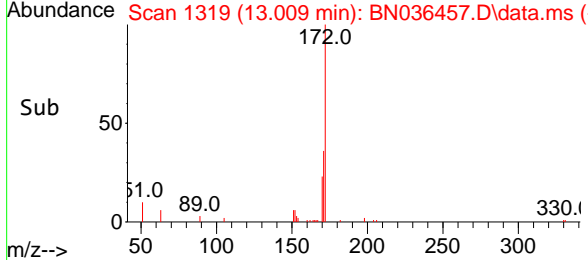
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



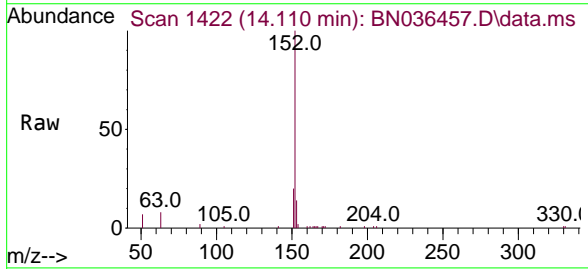
Tgt Ion:172 Resp: 705
 Ion Ratio Lower Upper
 172 100
 171 36.7 29.6 44.4
 170 24.5 19.8 29.6

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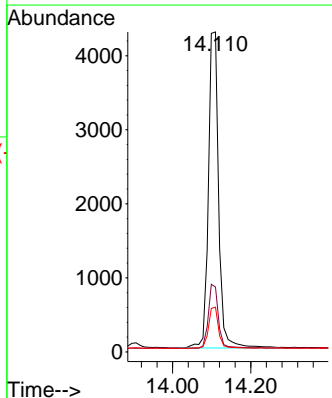
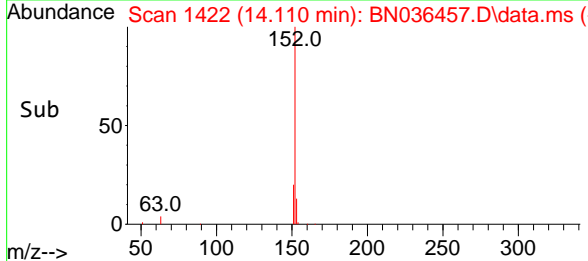
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

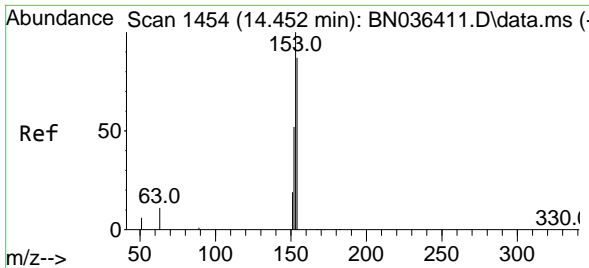


#16
 Acenaphthylene
 Concen: 0.363 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion:152 Resp: 7797
 Ion Ratio Lower Upper
 152 100
 151 20.1 15.8 23.8
 153 12.8 10.2 15.2





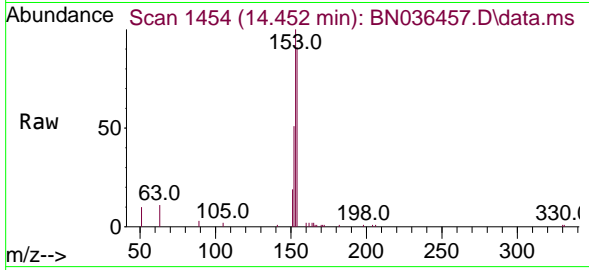
#17
 Acenaphthene
 Concen: 0.365 ng
 RT: 14.452 min Scan# 1454
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



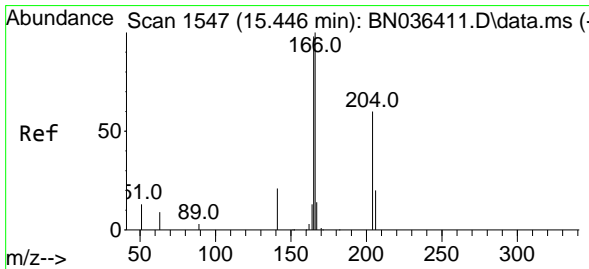
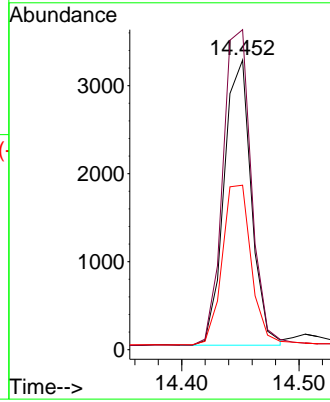
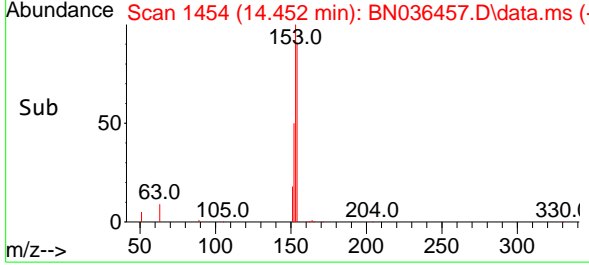
Tgt Ion:154 Resp: 5238
 Ion Ratio Lower Upper
 154 100
 153 117.7 93.3 139.9
 152 61.0 48.8 73.2

Manual Integrations

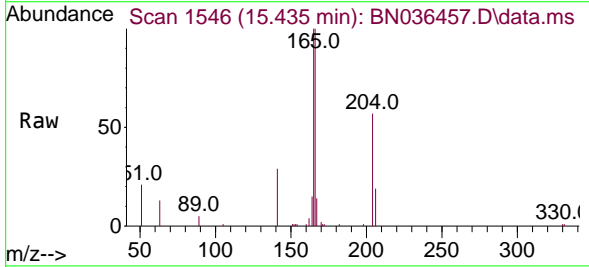
APPROVED

Reviewed By :Anahy Claudio 02/13/2025

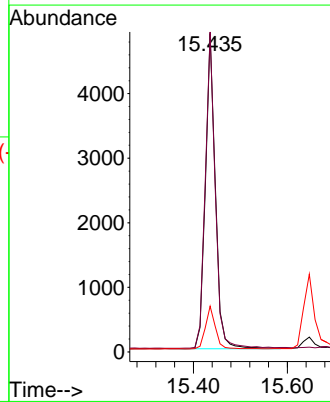
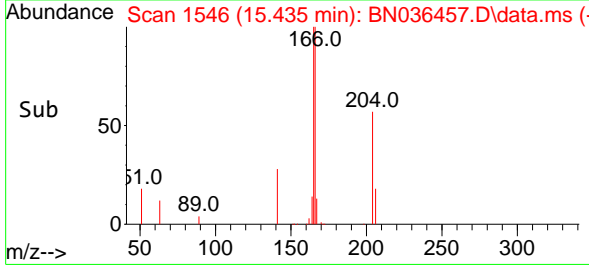
Supervised By :Jagrut Upadhyay 02/13/2025

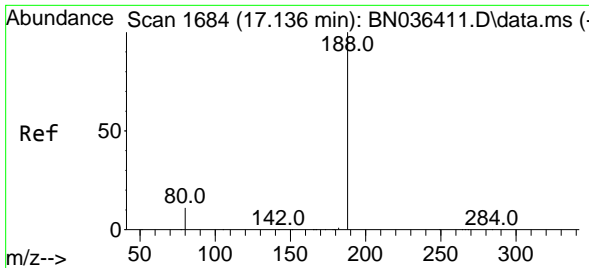


#18
 Fluorene
 Concen: 0.369 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



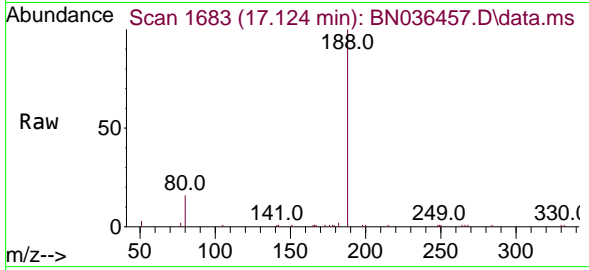
Tgt Ion:166 Resp: 7538
 Ion Ratio Lower Upper
 166 100
 165 100.5 79.5 119.3
 167 13.3 10.4 15.6





#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.124 min Scan# 10
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

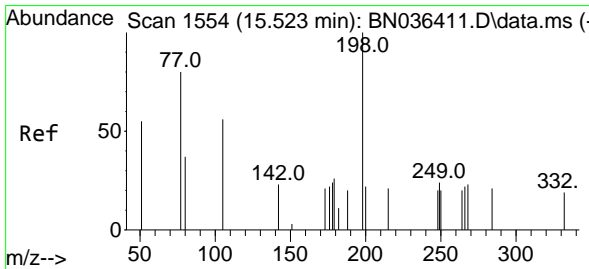
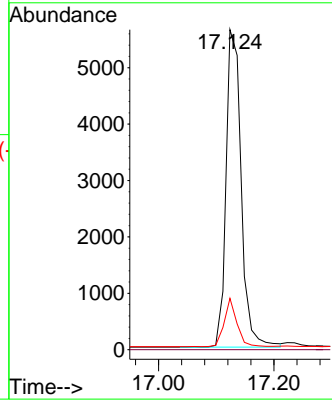
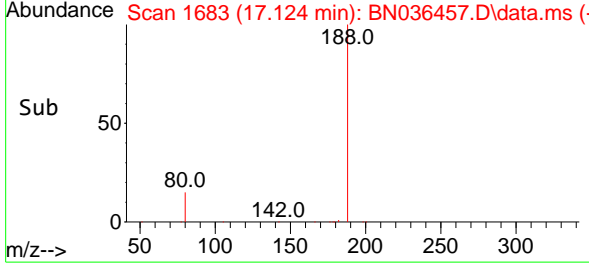
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



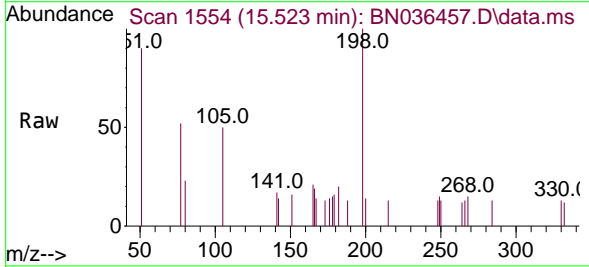
Tgt Ion:188 Resp: 10220
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 16.1 9.8 14.6

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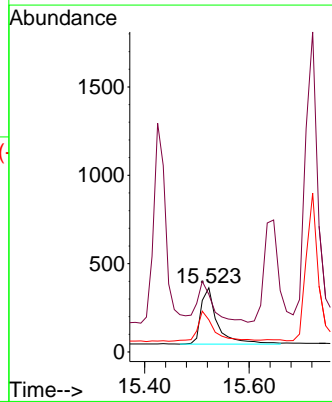
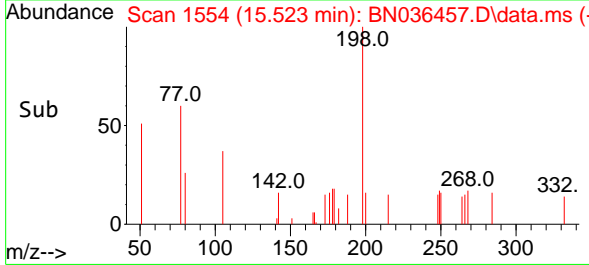
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

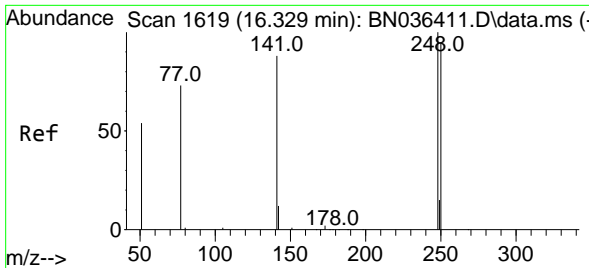


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.343 ng
 RT: 15.523 min Scan# 1554
 Delta R.T. -0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



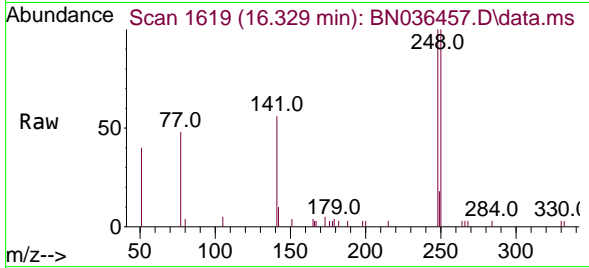
Tgt Ion:198 Resp: 689
 Ion Ratio Lower Upper
 198 100
 51 89.8 86.6 129.8
 105 50.1 57.5 86.3#





#21
 4-Bromophenyl-phenylether
 Concen: 0.395 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

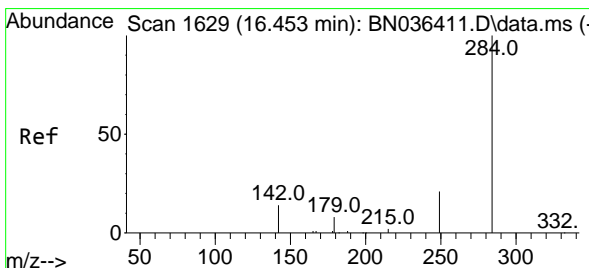
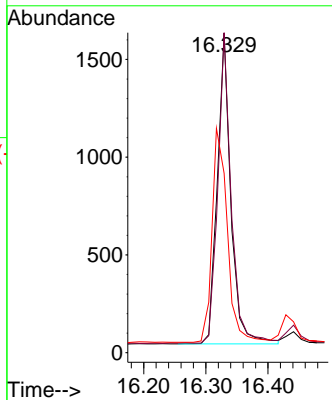
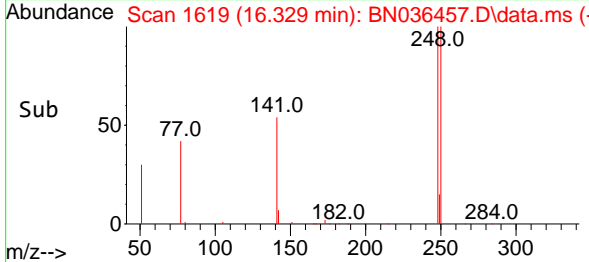


Tgt Ion: 248 Resp: 2400

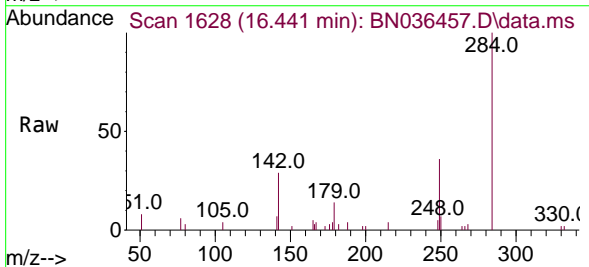
Ion	Ratio	Lower	Upper
248	100		
250	100.1	76.1	114.1
141	56.1	71.7	107.5

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 Supervised By :Jagrut Upadhyay 02/13/2025

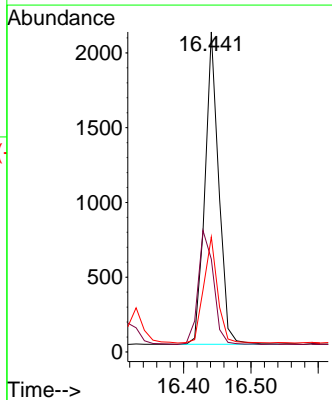
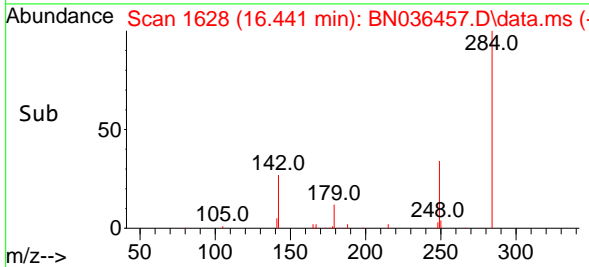


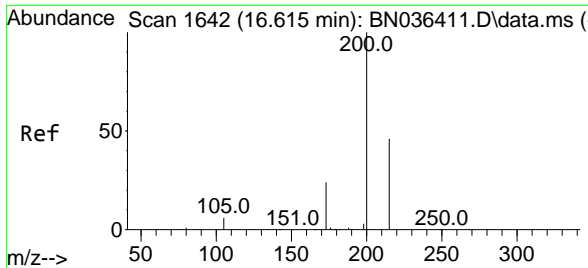
#22
 Hexachlorobenzene
 Concen: 0.396 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion: 284 Resp: 2984

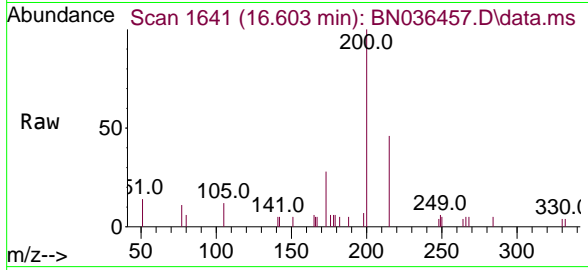
Ion	Ratio	Lower	Upper
284	100		
142	40.5	33.4	50.0
249	34.5	28.6	43.0





#23
Atrazine
 Concen: 0.370 ng
 RT: 16.603 min Scan# 1641
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4EC

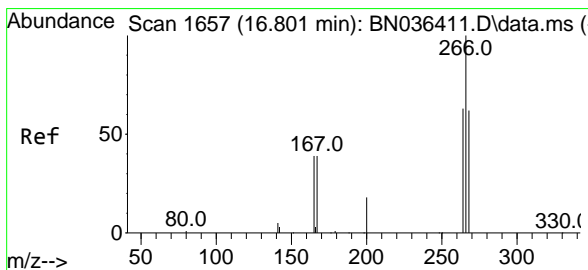
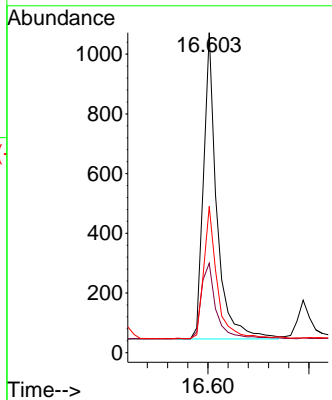
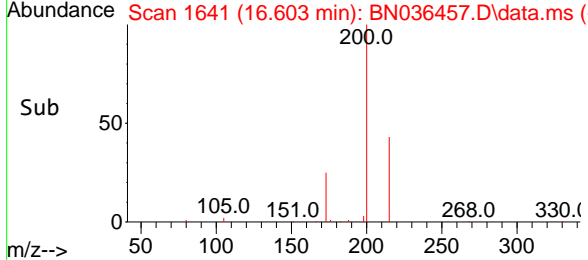


Tgt Ion: 200 Resp: 188

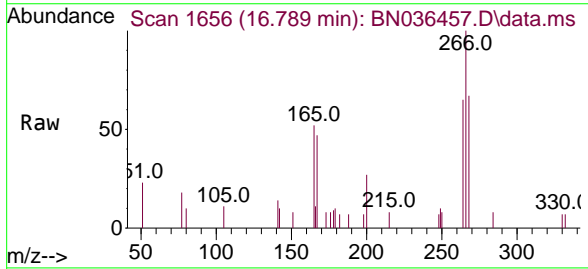
Ion	Ratio	Lower	Upper
200	100		
173	28.0	23.2	34.8
215	45.7	40.0	60.0

Manual Integrations
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 Supervised By :Jagrut Upadhyay 02/13/2025

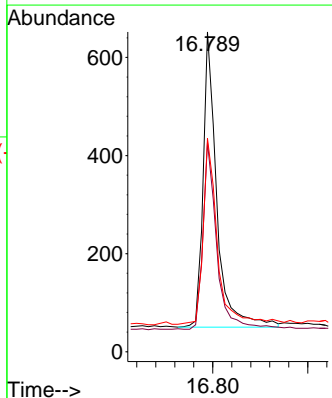
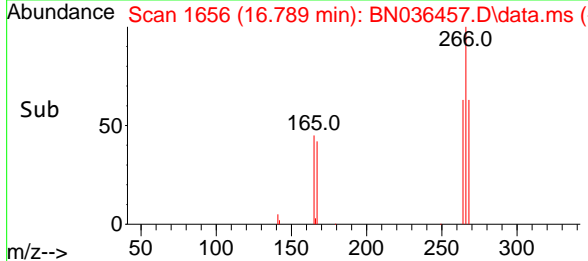


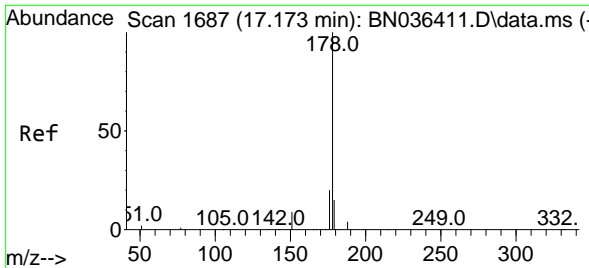
#24
Pentachlorophenol
 Concen: 0.339 ng
 RT: 16.789 min Scan# 1656
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion: 266 Resp: 1212

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.6	76.0
268	65.2	51.9	77.9





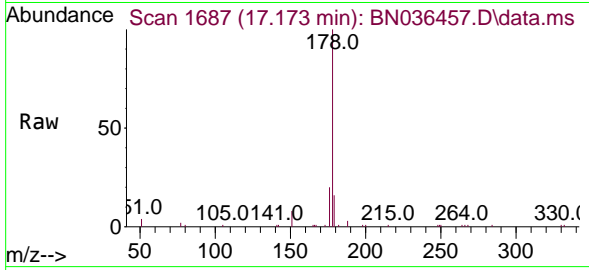
#25
 Phenanthrene
 Concen: 0.387 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :

BNA_N

Client Sample Id :

SSTDCCC0.4EC



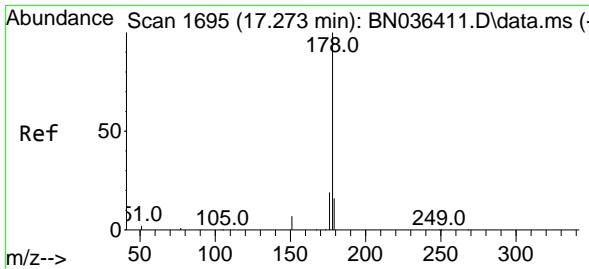
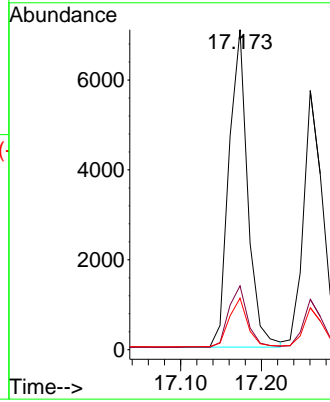
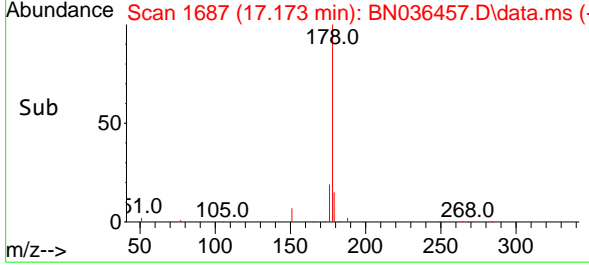
Tgt Ion:178 Resp: 11424
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.7 23.5
 179 15.1 12.4 18.6

Manual Integrations

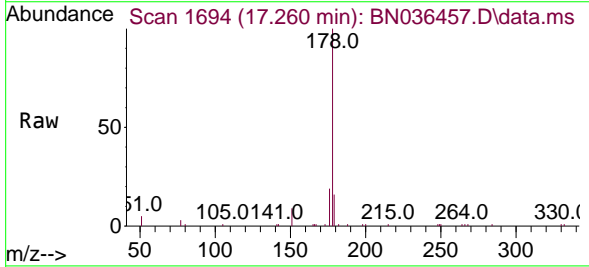
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Reviewed By :Anahy Claudio 02/13/2025

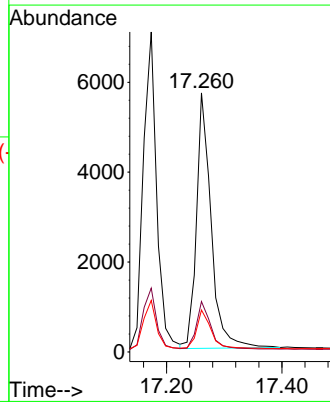
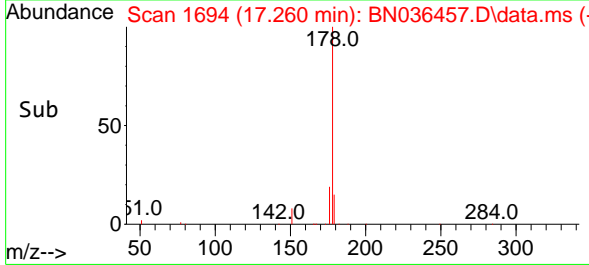
Supervised By :Jagrut Upadhyay 02/13/2025

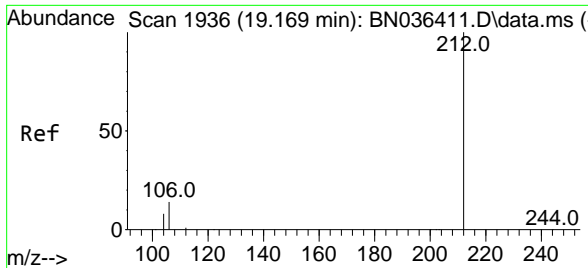


#26
 Anthracene
 Concen: 0.386 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



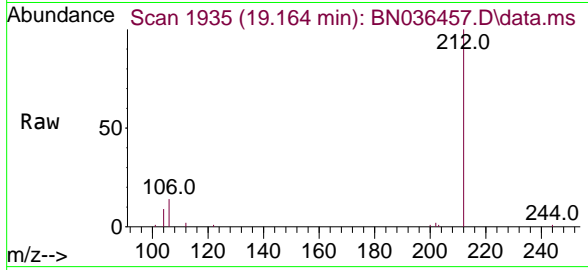
Tgt Ion:178 Resp: 10049
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.9 22.3
 179 15.2 12.4 18.6





#27
 Fluoranthene-d10
 Concen: 0.376 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

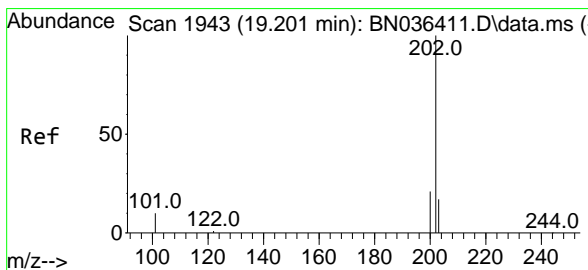
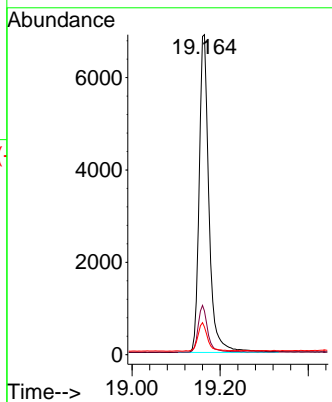
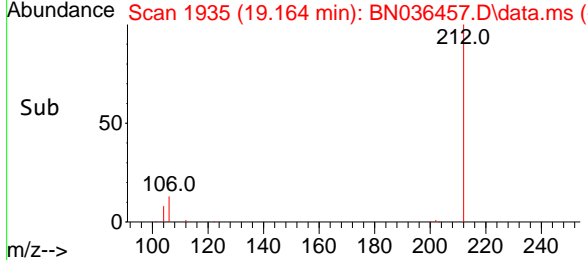
Instrument :
 BNA_N
 Client Sample Id :
 SSTDCCC0.4EC



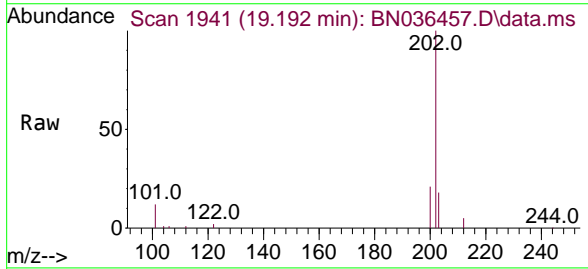
Tgt Ion: 212 Resp: 1069
 Ion Ratio Lower Upper
 212 100
 106 14.2 11.5 17.3
 104 8.7 7.1 10.7

Manual Integrations
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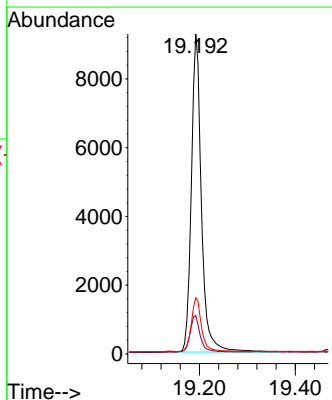
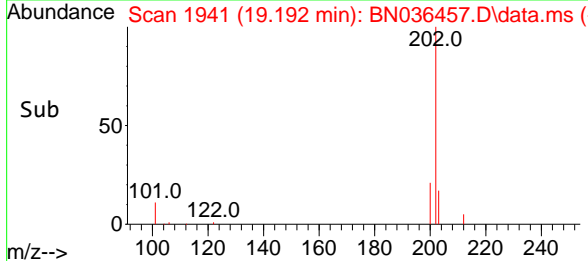
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

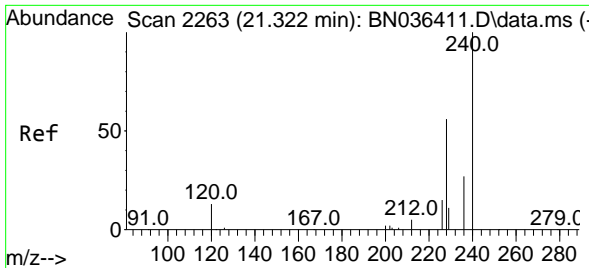


#28
 Fluoranthene
 Concen: 0.373 ng
 RT: 19.192 min Scan# 1941
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



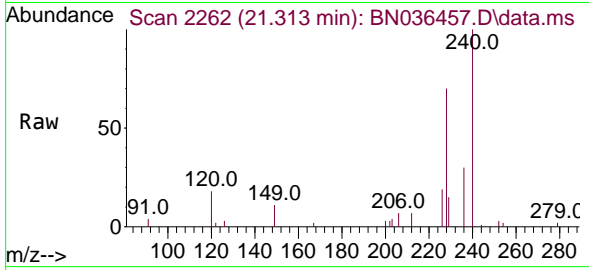
Tgt Ion: 202 Resp: 13554
 Ion Ratio Lower Upper
 202 100
 101 11.6 9.2 13.8
 203 17.1 13.4 20.0





#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.313 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDC00.4EC

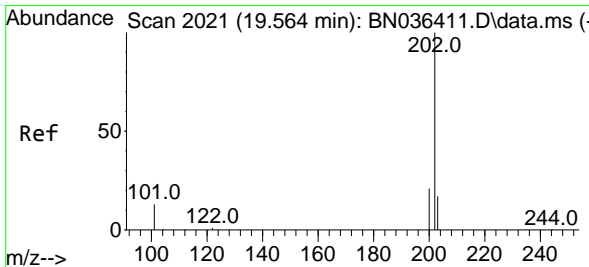
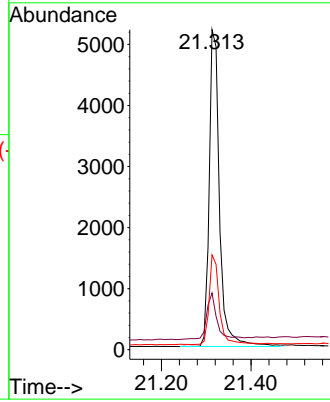
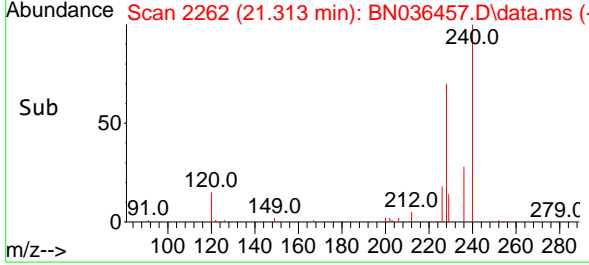


Tgt Ion: 240 Resp: 8310

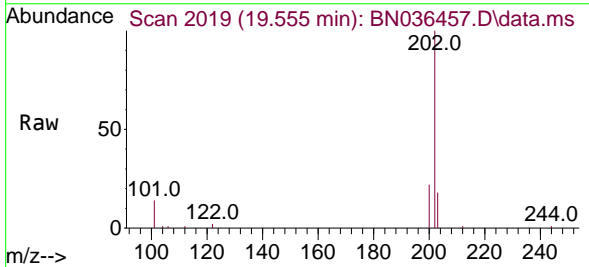
Ion	Ratio	Lower	Upper
240	100		
120	17.7	13.3	19.9
236	29.6	23.0	34.6

Manual Integrations
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Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

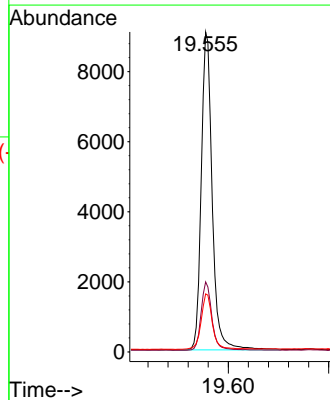
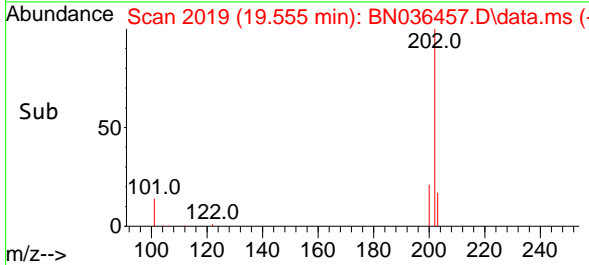


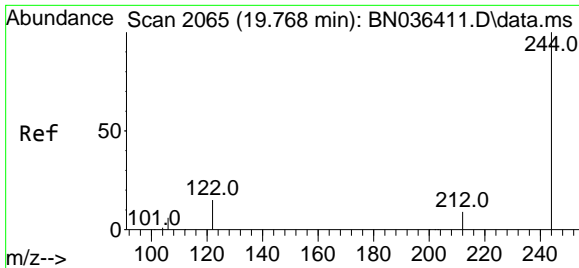
#30
 Pyrene
 Concen: 0.428 ng
 RT: 19.555 min Scan# 2019
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion: 202 Resp: 13707

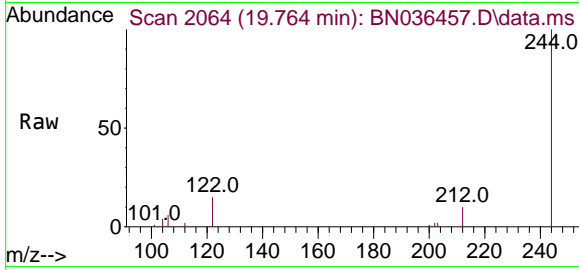
Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	18.0	13.9	20.9





#31
 Terphenyl-d14
 Concen: 0.419 ng
 RT: 19.764 min Scan# 2064
 Delta R.T. -0.005 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

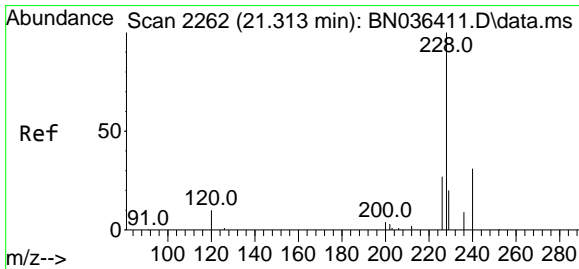
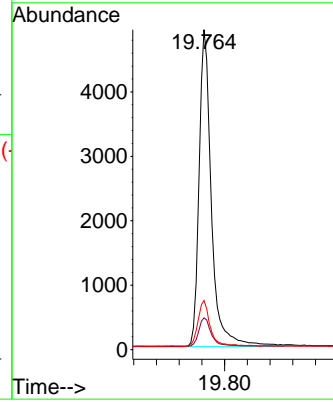
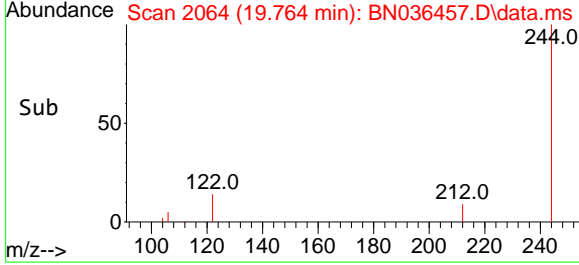
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



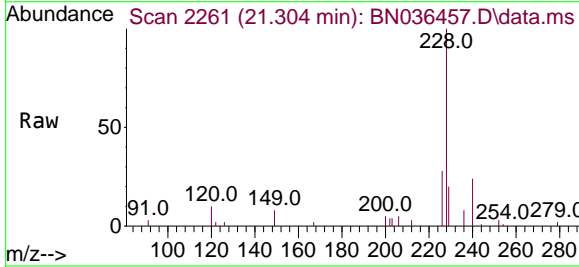
Tgt Ion:244 Resp: 7428

Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.1	12.1
122	15.3	12.8	19.2

Manual Integrations
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 Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

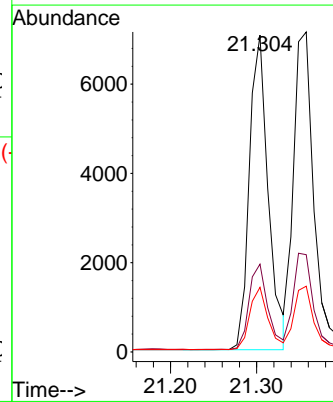
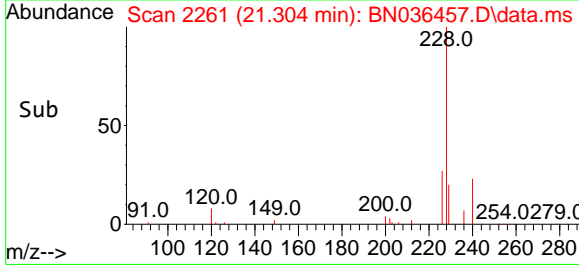


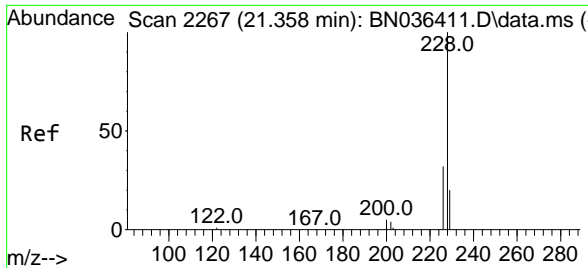
#32
 Benzo(a)anthracene
 Concen: 0.393 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion:228 Resp: 10744

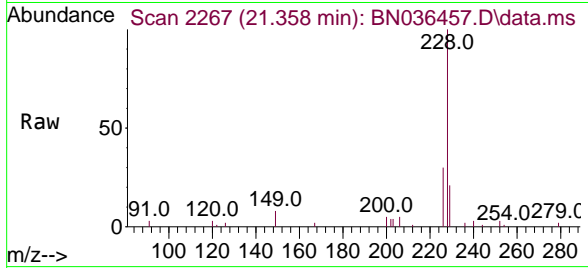
Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	20.4	16.5	24.7





#33
Chrysene
 Concen: 0.403 ng
 RT: 21.358 min Scan# 2121
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

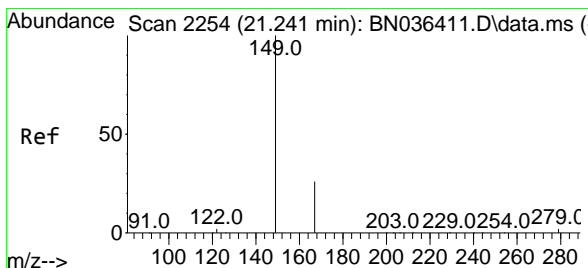
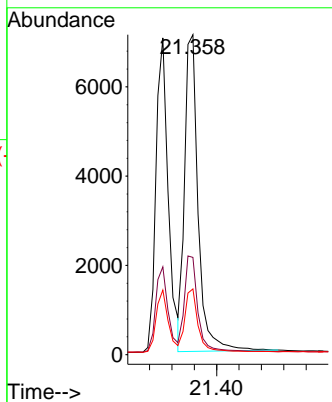
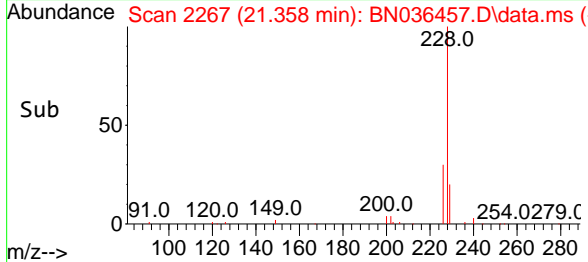
Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4EC



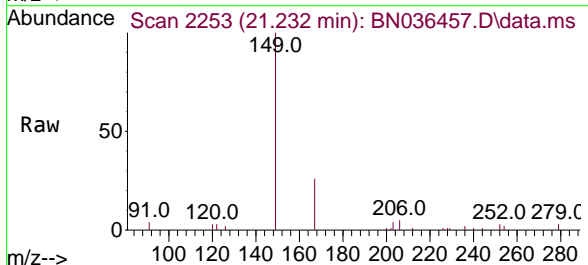
Tgt Ion: 228 Resp: 11936
 Ion Ratio Lower Upper
 228 100
 226 30.4 25.5 38.3
 229 20.5 16.4 24.6

Manual Integrations
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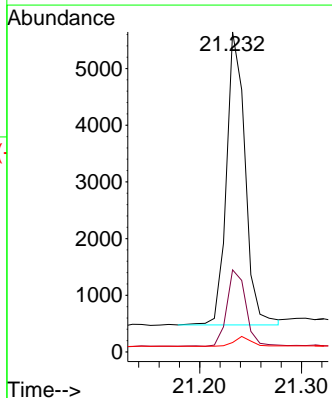
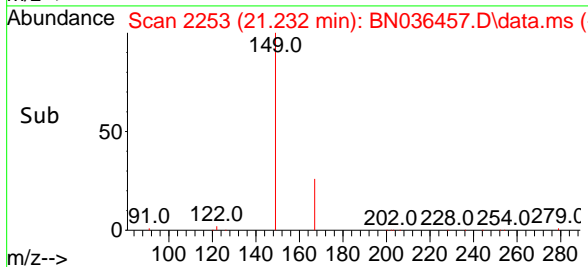
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

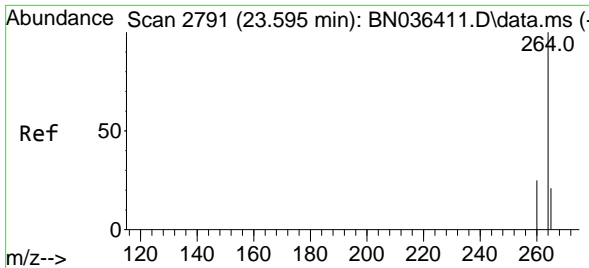


#34
Bis(2-ethylhexyl)phthalate
 Concen: 0.385 ng
 RT: 21.232 min Scan# 2253
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



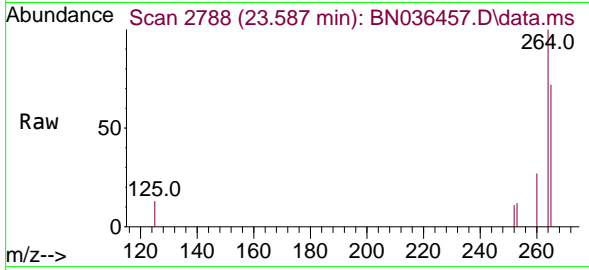
Tgt Ion: 149 Resp: 6561
 Ion Ratio Lower Upper
 149 100
 167 26.5 21.2 31.8
 279 3.2 2.7 4.1





#35
Perylene-d12
 Concen: 0.400 ng
 RT: 23.587 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
ClientSampleId :
 SSTDCCC0.4EC

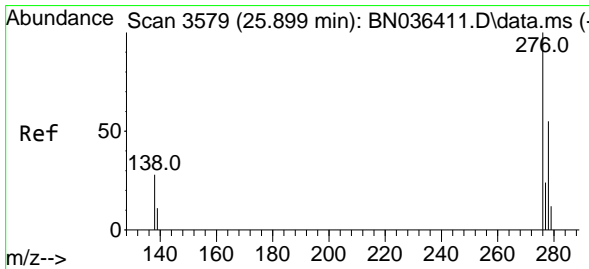
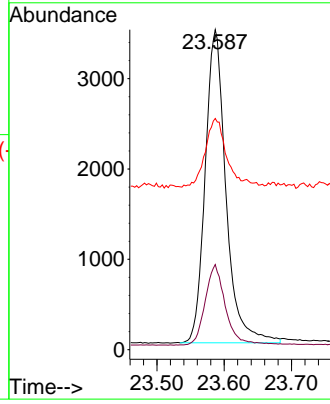
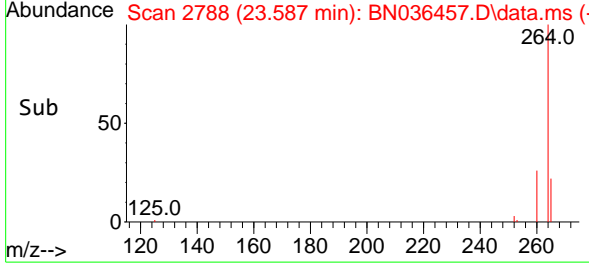


Tgt Ion: 264 Resp: 7438

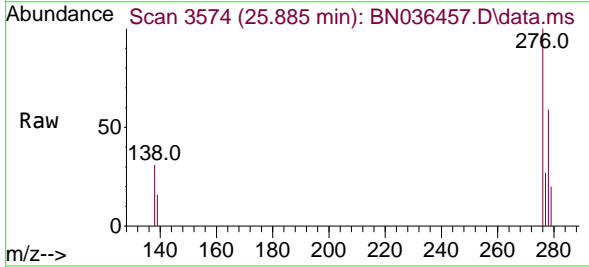
Ion	Ratio	Lower	Upper
264	100		
260	26.6	20.9	31.3
265	72.3	60.7	91.1

Manual Integrations
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Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

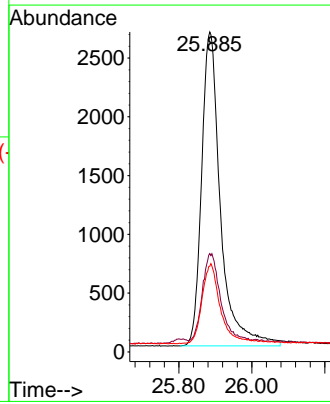
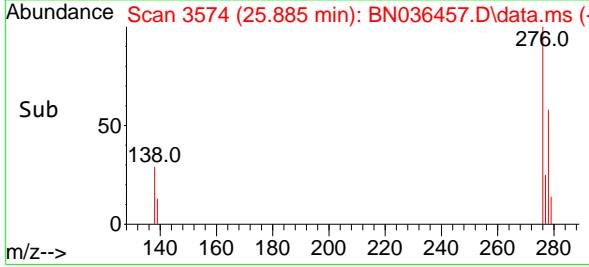


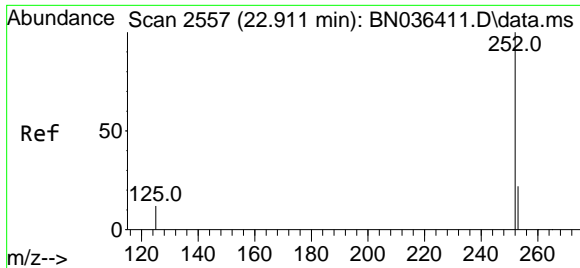
#36
Indeno(1,2,3-cd)pyrene
 Concen: 0.369 ng
 RT: 25.885 min Scan# 3574
 Delta R.T. -0.014 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion: 276 Resp: 9602

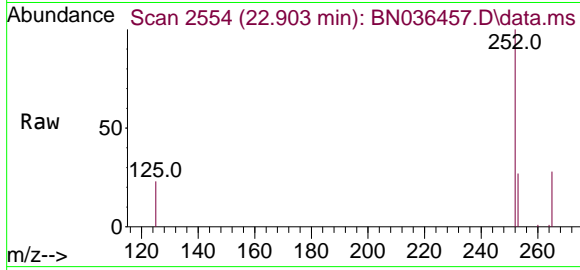
Ion	Ratio	Lower	Upper
276	100		
138	26.2	22.2	33.2
277	24.6	19.8	29.6





#37
 Benzo(b)fluoranthene
 Concen: 0.440 ng m
 RT: 22.903 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

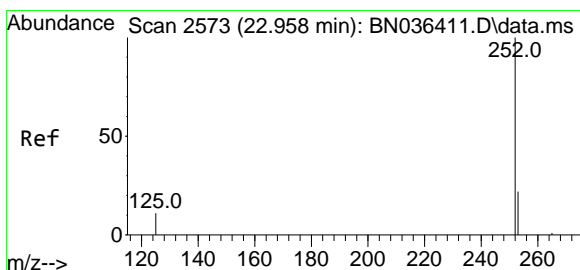
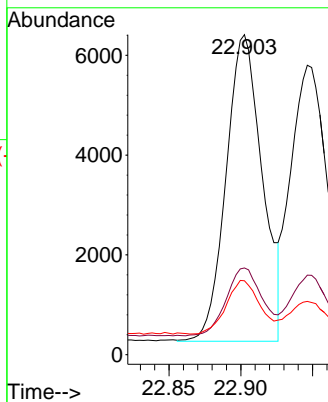
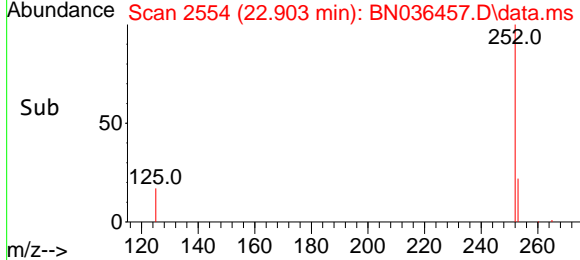
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



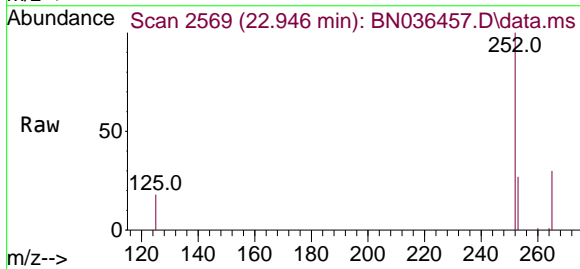
Tgt Ion:252 Resp: 10770
 Ion Ratio Lower Upper
 252 100
 253 27.1 21.9 32.9
 125 23.1 15.0 22.6

Manual Integrations
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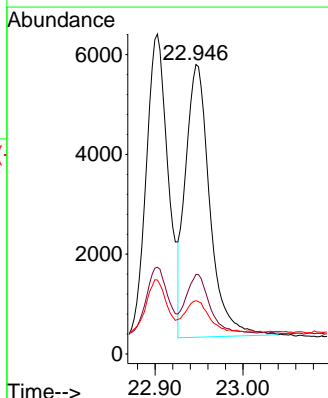
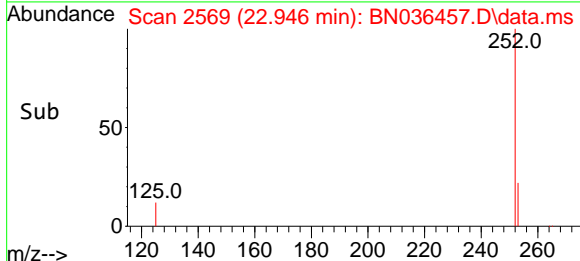
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

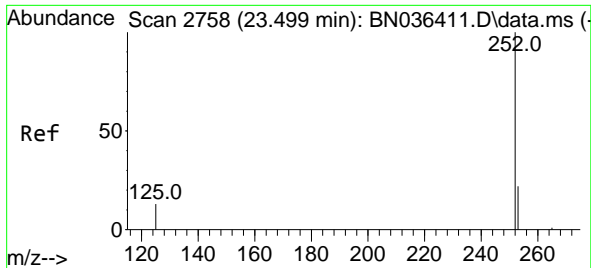


#38
 Benzo(k)fluoranthene
 Concen: 0.416 ng
 RT: 22.946 min Scan# 2569
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion:252 Resp: 10477
 Ion Ratio Lower Upper
 252 100
 253 27.5 22.2 33.4
 125 18.4 15.0 22.4





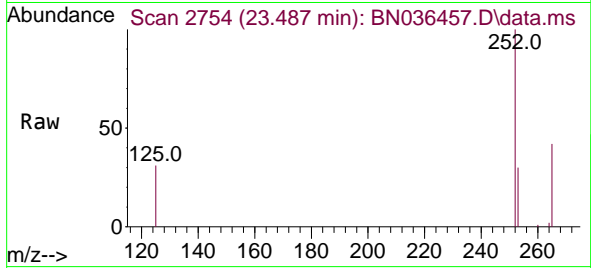
#39
 Benzo(a)pyrene
 Concen: 0.417 ng
 RT: 23.487 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :

BNA_N

ClientSampleId :

SSTDC00.4EC



Tgt Ion:252 Resp: 891

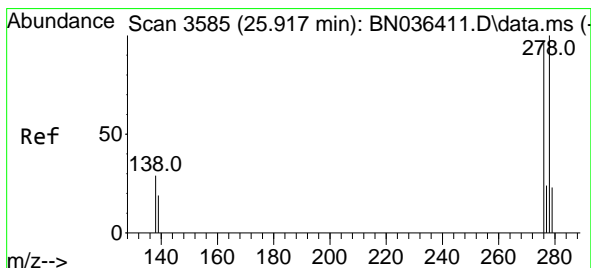
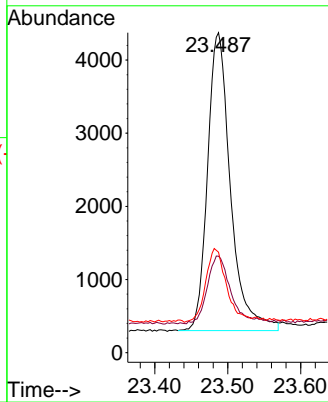
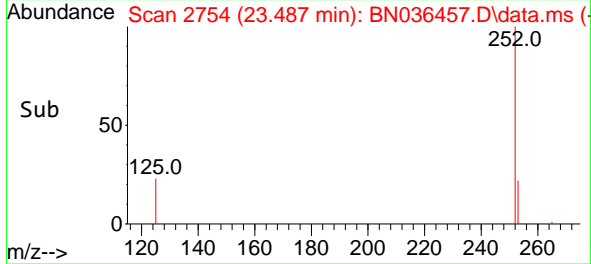
Ion	Ratio	Lower	Upper
252	100		
253	30.1	24.4	36.6
125	31.4	18.2	27.2

Manual Integrations

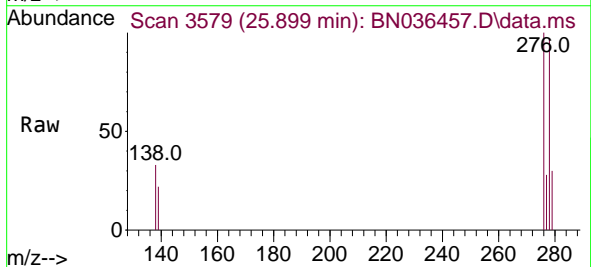
APPROVED

Reviewed By :Anahy Claudio 02/13/2025

Supervised By :Jagrut Upadhyay 02/13/2025

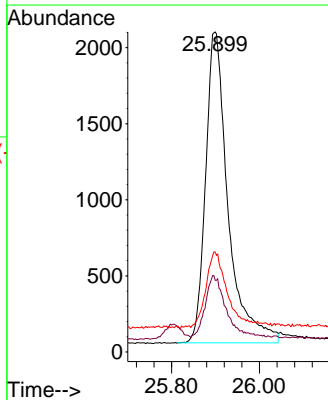
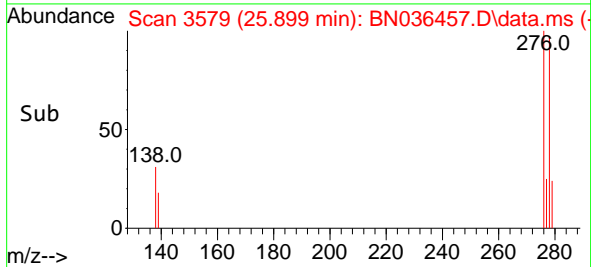


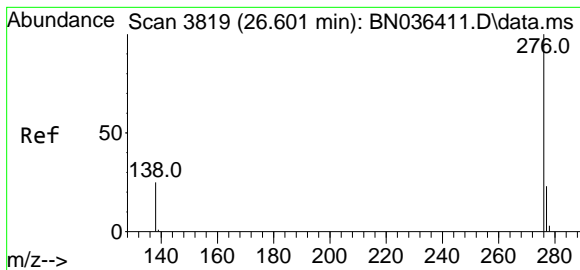
#40
 Dibenzo(a,h)anthracene
 Concen: 0.354 ng
 RT: 25.899 min Scan# 3579
 Delta R.T. -0.017 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion:278 Resp: 7254

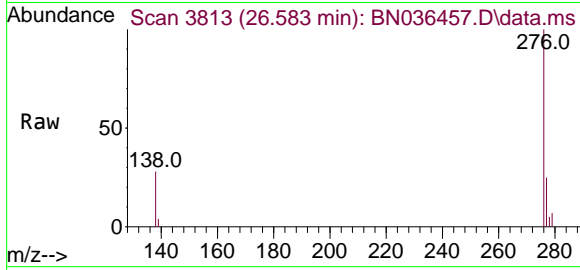
Ion	Ratio	Lower	Upper
278	100		
139	22.4	18.5	27.7
279	31.2	24.8	37.2





#41
 Benzo(g,h,i)perylene
 Concen: 0.358 ng
 RT: 26.583 min Scan# 3813
 Delta R.T. -0.017 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

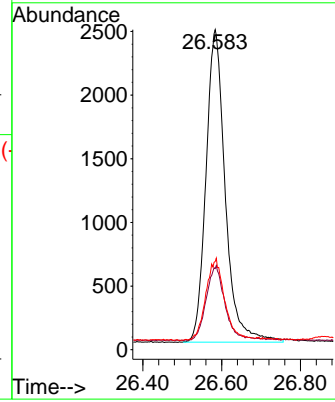
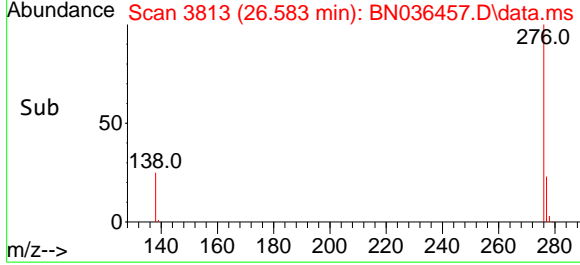


Tgt Ion: 276 Resp: 833

Ion	Ratio	Lower	Upper
276	100		
277	25.4	20.7	31.1
138	27.6	21.8	32.6

Manual Integrations
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 Supervised By :Jagrut Upadhyay 02/13/2025



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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036457.D
 Acq On : 13 Feb 2025 01:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Feb 13 01:53:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	118	0.00
2	1,4-Dioxane	0.438	0.427	2.5	117	0.00
3	n-Nitrosodimethylamine	0.760	0.749	1.4	116	0.00
4 S	2-Fluorophenol	0.945	0.925	2.1	117	0.00
5 S	Phenol-d6	1.109	1.094	1.4	125	-0.01
6	bis(2-Chloroethyl)ether	1.160	1.123	3.2	122	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	124	0.00
8 S	Nitrobenzene-d5	0.395	0.380	3.8	129	-0.01
9	Naphthalene	1.154	1.111	3.7	123	-0.01
10	Hexachlorobutadiene	0.281	0.273	2.8	119	0.00
11 SURR	2-Methylnaphthalene-d10	0.615	0.606	1.5	124	-0.01
12	2-Methylnaphthalene	0.757	0.752	0.7	126	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	135	0.00
14 S	2,4,6-Tribromophenol	0.198	0.171	13.6	124	0.00
15 S	2-Fluorobiphenyl	1.504	1.452	3.5	142	-0.01
16	Acenaphthylene	1.767	1.604	9.2	128	0.00
17	Acenaphthene	1.180	1.077	8.7	127	0.00
18	Fluorene	1.680	1.551	7.7	126	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	123	-0.01
20	4,6-Dinitro-2-methylphenol	0.078	0.067	14.1	120	0.00
21	4-Bromophenyl-phenylether	0.239	0.235	1.7	125	0.00
22	Hexachlorobenzene	0.295	0.292	1.0	126	-0.01
23	Atrazine	0.199	0.184	7.5	121	-0.01
24	Pentachlorophenol	0.140	0.119	15.0	119	-0.01
25	Phenanthrene	1.156	1.117	3.4	125	0.00
26	Anthracene	1.020	0.983	3.6	125	-0.01
27 SURR	Fluoranthene-d10	1.112	1.046	5.9	121	0.00
28	Fluoranthene	1.421	1.325	6.8	120	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	111	0.00
30	Pyrene	1.541	1.649	-7.0	119	0.00
31 S	Terphenyl-d14	0.854	0.894	-4.7	116	0.00
32	Benzo(a)anthracene	1.316	1.293	1.7	111	0.00
33	Chrysene	1.425	1.436	-0.8	117	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.790	3.7	113	0.00
35 I	Perylene-d12	1.000	1.000	0.0	96	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.291	7.7	90	-0.01
37	Benzo(b)fluoranthene	1.317	1.449	-10.0	111	0.00
38	Benzo(k)fluoranthene	1.356	1.409	-3.9	99	-0.01
39 C	Benzo(a)pyrene	1.150	1.198	-4.2	105	-0.01
40	Dibenzo(a,h)anthracene	1.103	0.975	11.6	87	-0.02
41	Benzo(g,h,i)perylene	1.250	1.120	10.4	86	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036457.D
 Acq On : 13 Feb 2025 01:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Feb 13 01:53:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	118	0.00
2	1,4-Dioxane	0.400	0.390	2.5	117	0.00
3	n-Nitrosodimethylamine	0.400	0.394	1.5	116	0.00
4 S	2-Fluorophenol	0.400	0.391	2.3	117	0.00
5 S	Phenol-d6	0.400	0.394	1.5	125	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.387	3.3	122	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	124	0.00
8 S	Nitrobenzene-d5	0.400	0.385	3.8	129	-0.01
9	Naphthalene	0.400	0.385	3.8	123	-0.01
10	Hexachlorobutadiene	0.400	0.388	3.0	119	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.394	1.5	124	-0.01
12	2-Methylnaphthalene	0.400	0.397	0.8	126	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	135	0.00
14 S	2,4,6-Tribromophenol	0.400	0.344	14.0	124	0.00
15 S	2-Fluorobiphenyl	0.400	0.386	3.5	142	-0.01
16	Acenaphthylene	0.400	0.363	9.3	128	0.00
17	Acenaphthene	0.400	0.365	8.8	127	0.00
18	Fluorene	0.400	0.369	7.8	126	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	123	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.343	14.2	120	0.00
21	4-Bromophenyl-phenylether	0.400	0.395	1.3	125	0.00
22	Hexachlorobenzene	0.400	0.396	1.0	126	-0.01
23	Atrazine	0.400	0.370	7.5	121	-0.01
24	Pentachlorophenol	0.400	0.339	15.3	119	-0.01
25	Phenanthrene	0.400	0.387	3.3	125	0.00
26	Anthracene	0.400	0.386	3.5	125	-0.01
27 SURR	Fluoranthene-d10	0.400	0.376	6.0	121	0.00
28	Fluoranthene	0.400	0.373	6.8	120	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	111	0.00
30	Pyrene	0.400	0.428	-7.0	119	0.00
31 S	Terphenyl-d14	0.400	0.419	-4.7	116	0.00
32	Benzo(a)anthracene	0.400	0.393	1.8	111	0.00
33	Chrysene	0.400	0.403	-0.8	117	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.385	3.8	113	0.00
35 I	Perylene-d12	0.400	0.400	0.0	96	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.369	7.8	90	-0.01
37	Benzo(b)fluoranthene	0.400	0.440	-10.0	111	0.00
38	Benzo(k)fluoranthene	0.400	0.416	-4.0	99	-0.01
39 C	Benzo(a)pyrene	0.400	0.417	-4.2	105	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.354	11.5	87	-0.02
41	Benzo(g,h,i)perylene	0.400	0.358	10.5	86	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

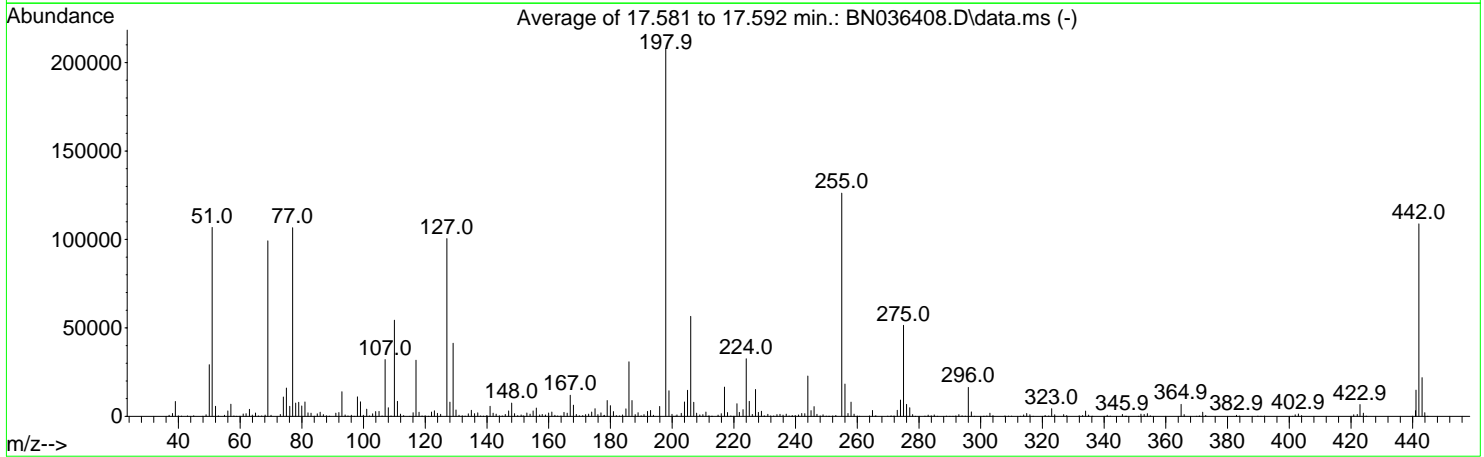
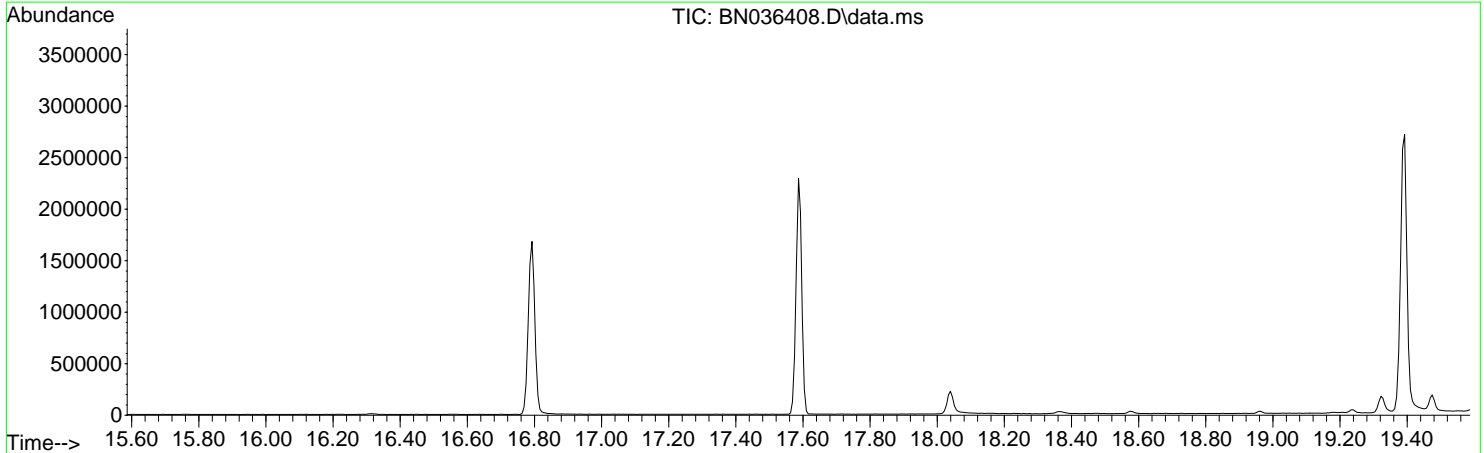
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036408.D
 Acq On : 10 Feb 2025 11:46
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Feb 11 01:17:14 2025



AutoFind: Scans 2464, 2465, 2466; Background Corrected with Scan 2458

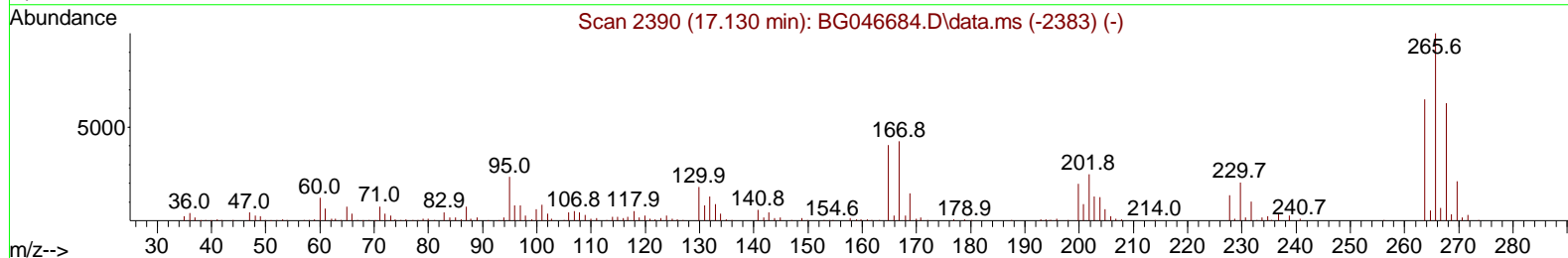
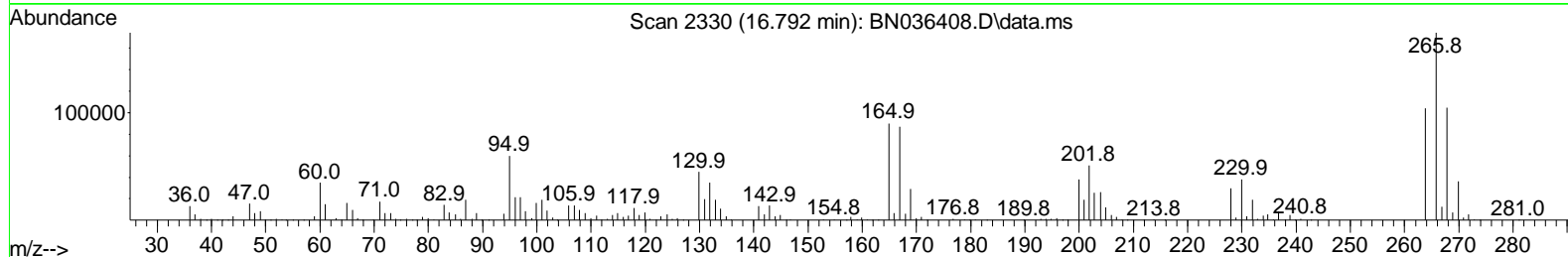
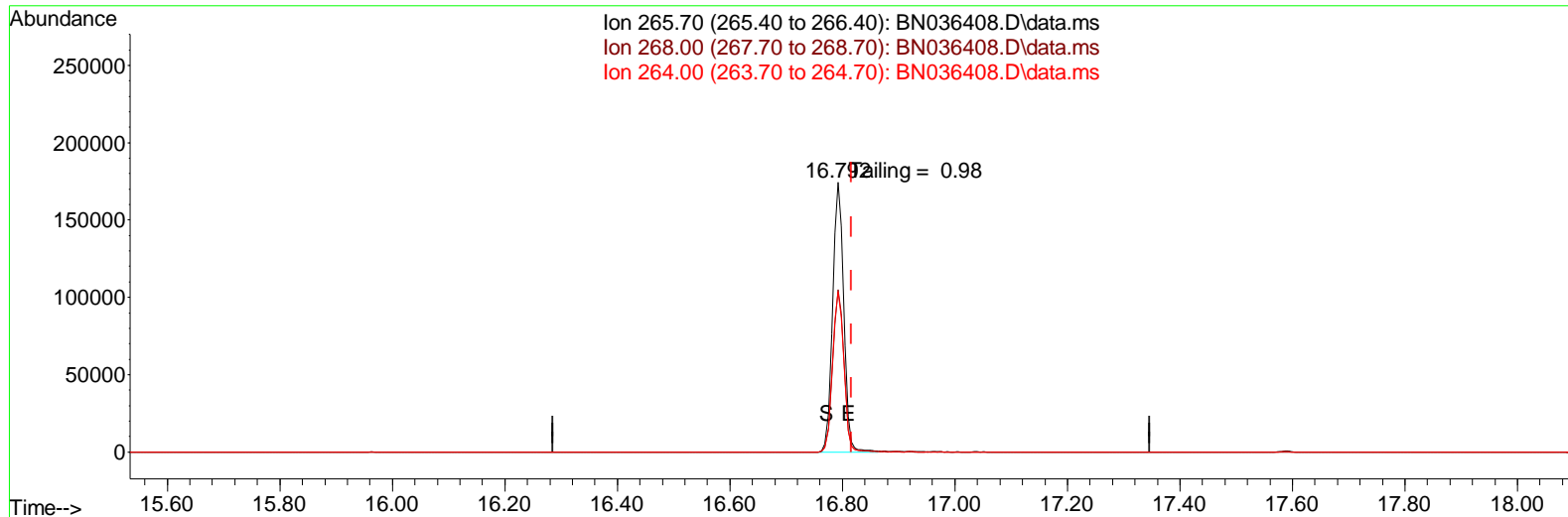
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.4	106809	PASS
68	69	0.00	2	0.7	724	PASS
69	198	0.00	100	47.7	99211	PASS
70	69	0.00	2	0.6	601	PASS
127	198	10	80	48.3	100501	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	207936	PASS
199	198	5	9	7.0	14493	PASS
275	198	10	60	24.7	51437	PASS
365	198	1	100	3.3	6829	PASS
441	198	0.01	100	7.1	14816	PASS
442	442	50	100	100.0	108824	PASS
443	442	15	24	20.1	21911	PASS

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036408.D
 Acq On : 10 Feb 2025 11:46
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 DFTPP

Quant Time: Feb 11 01:55:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 25 04:23:53 2024
 Response via : Initial Calibration



TIC: BN036408.D\data.ms

(70) Pentachlorophenol (C)

16.792min (-0.024) 22697.76 ng

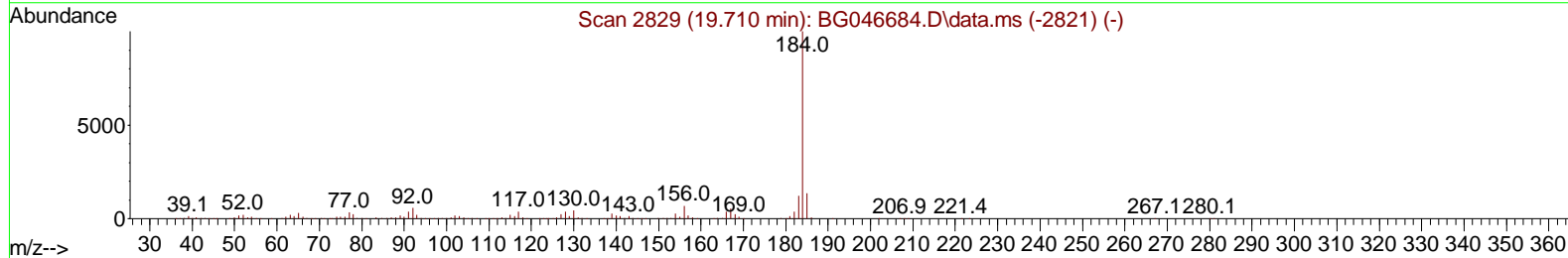
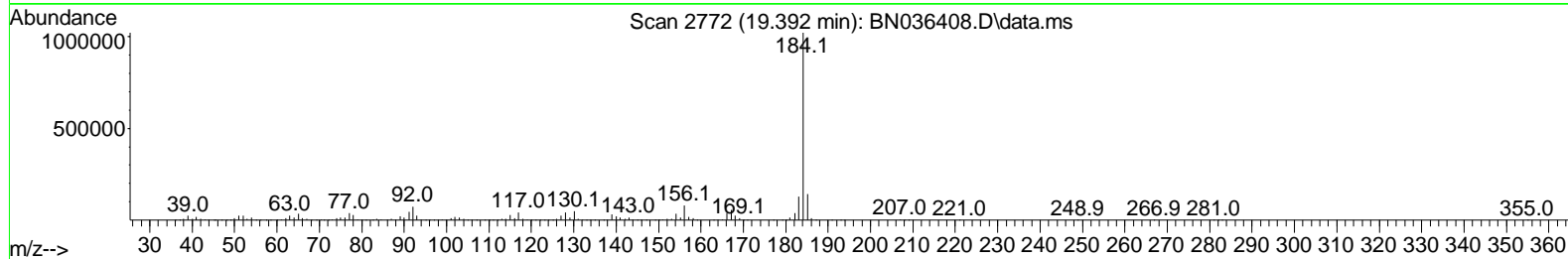
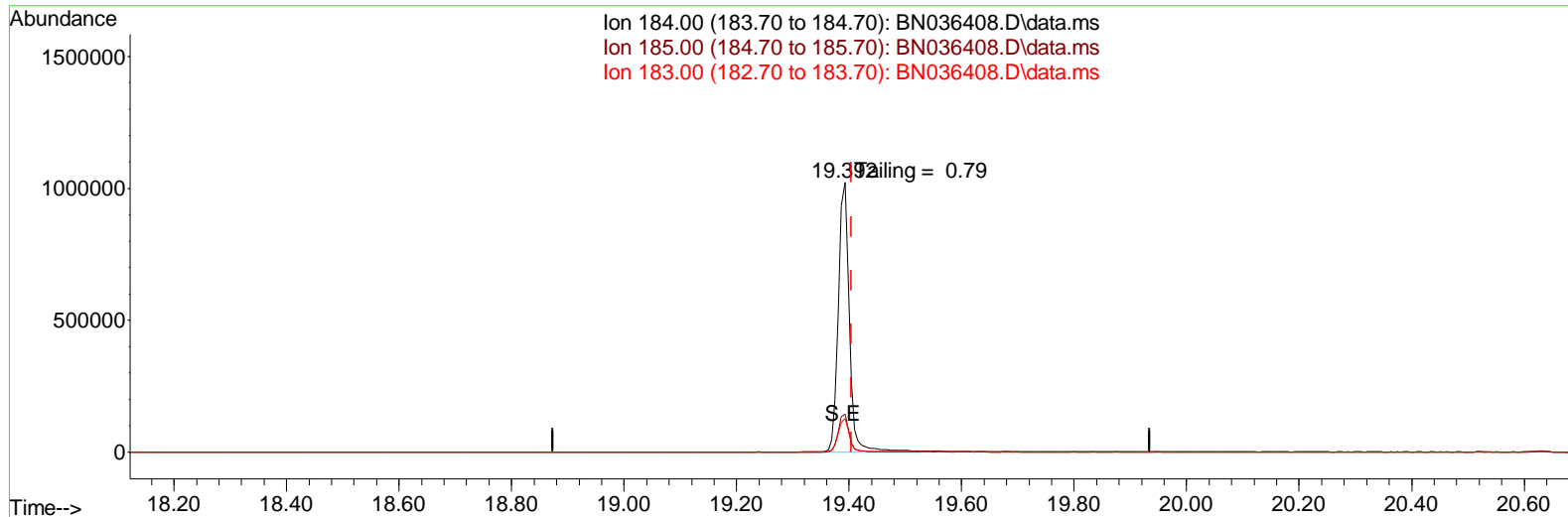
response 239758

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.20
264.00	61.60	59.58
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036408.D
 Acq On : 10 Feb 2025 11:46
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 DFTPP

Quant Time: Feb 11 01:55:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 25 04:23:53 2024
 Response via : Initial Calibration



TIC: BN036408.D\data.ms

(77) Benzidine

19.392min (-0.012) 0.00 ng

response 1390167

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.06
183.00	13.20	12.43
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

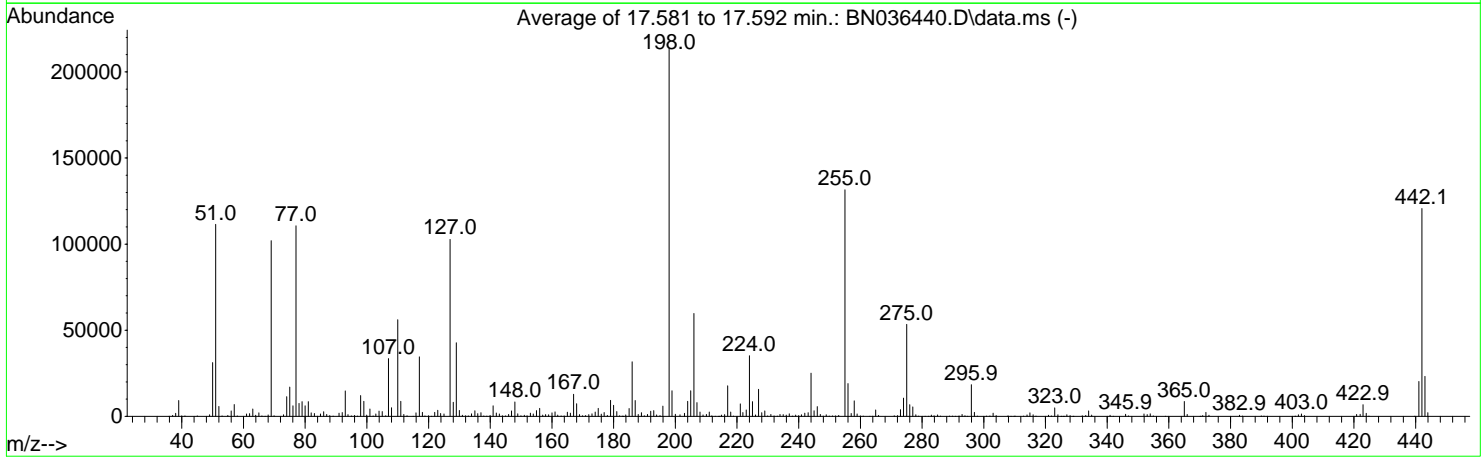
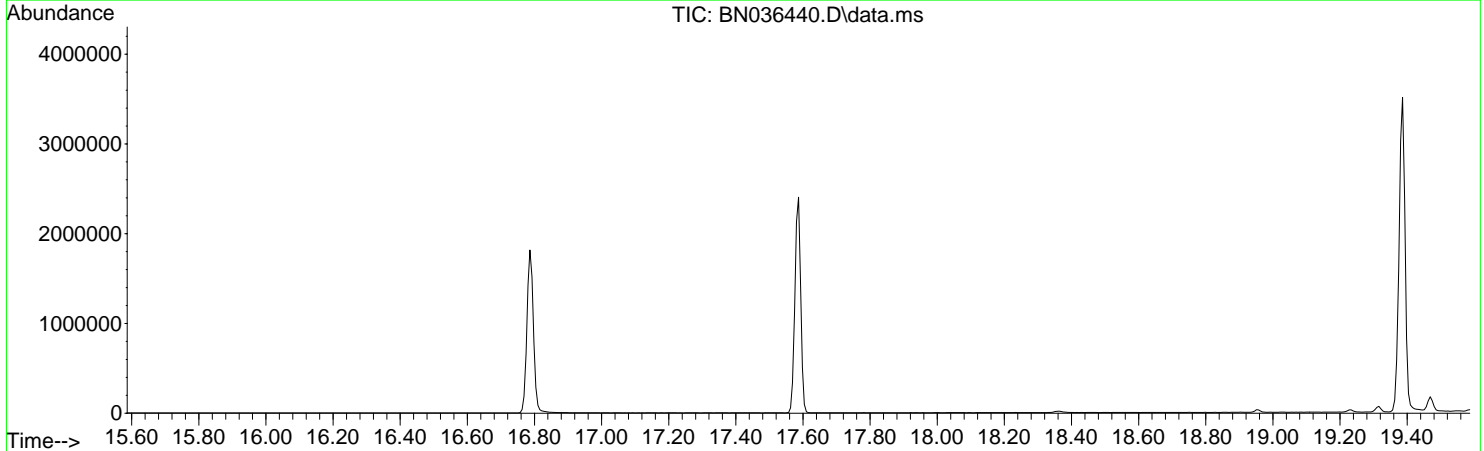
Date	Instrument Name	DFTPP Data File
2/10/2025	BNA_N	<u>BN036408.D</u>
Compound Name	Response	Retention Time
DDT	740190	20.628
DDD	8470	20.239
DDE	0	19.728
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8470	748660	1.13

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036440.D
 Acq On : 12 Feb 2025 15:09
 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-BN021025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Feb 11 01:17:14 2025



AutoFind: Scans 2464, 2465, 2466; Background Corrected with Scan 2457

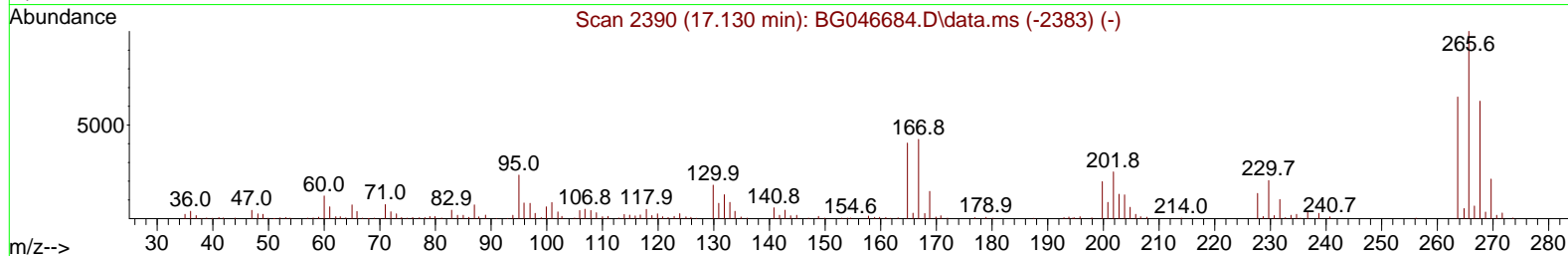
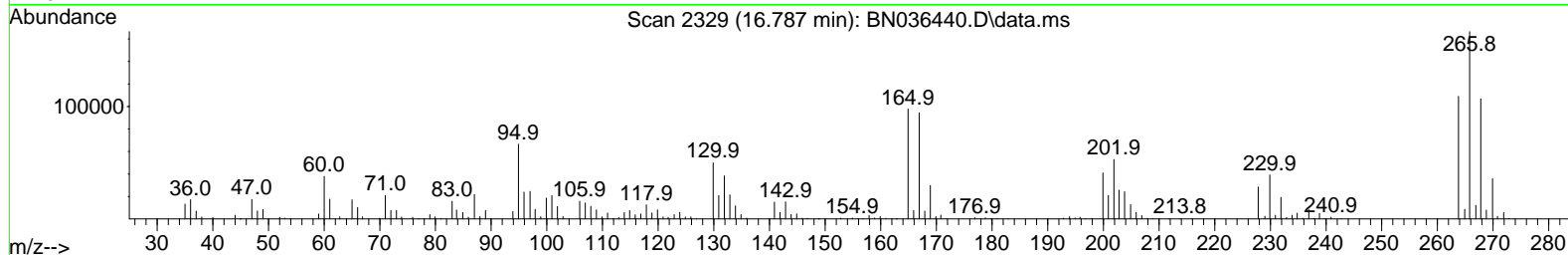
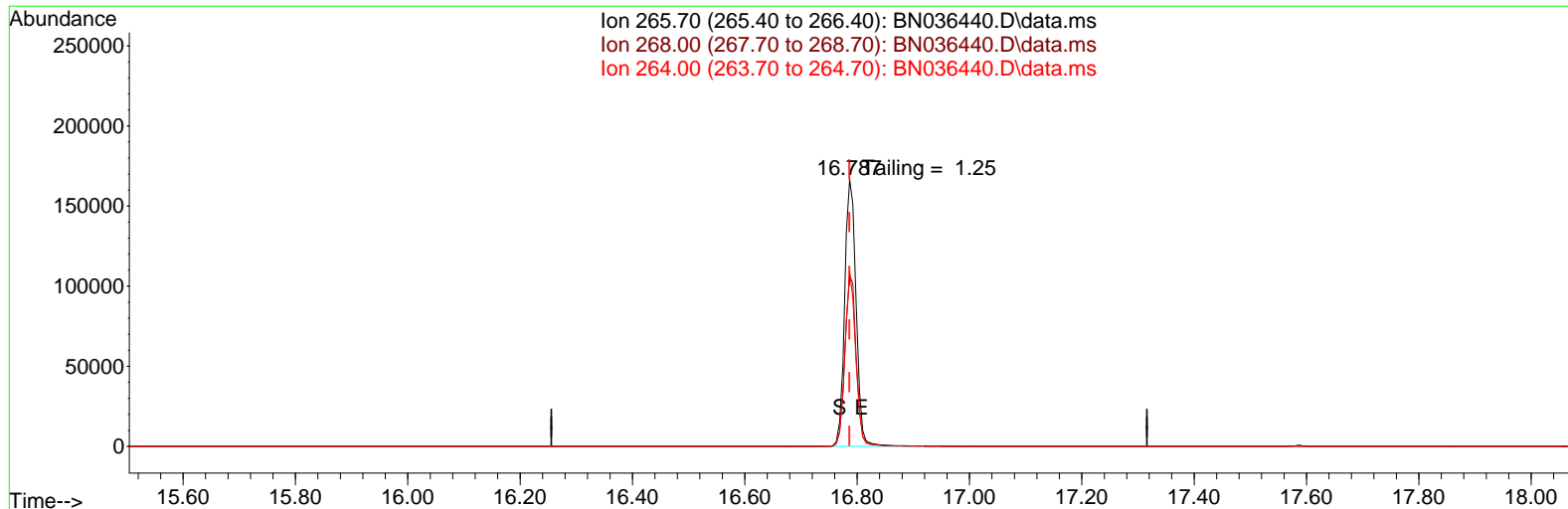
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.2	111435	PASS
68	69	0.00	2	0.9	873	PASS
69	198	0.00	100	47.7	101952	PASS
70	69	0.00	2	0.4	407	PASS
127	198	10	80	48.1	102789	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	213568	PASS
199	198	5	9	7.0	14856	PASS
275	198	10	60	25.0	53379	PASS
365	198	1	100	4.0	8641	PASS
441	198	0.01	100	9.5	20264	PASS
442	442	50	100	100.0	120632	PASS
443	442	15	24	19.2	23216	PASS

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036440.D
 Acq On : 12 Feb 2025 15:09
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 DFTPP

Quant Time: Feb 12 17:06:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 25 04:23:53 2024
 Response via : Initial Calibration



TIC: BN036440.D\data.ms

(70) Pentachlorophenol (C)

16.787min (+ 0.001) 20072.93 ng

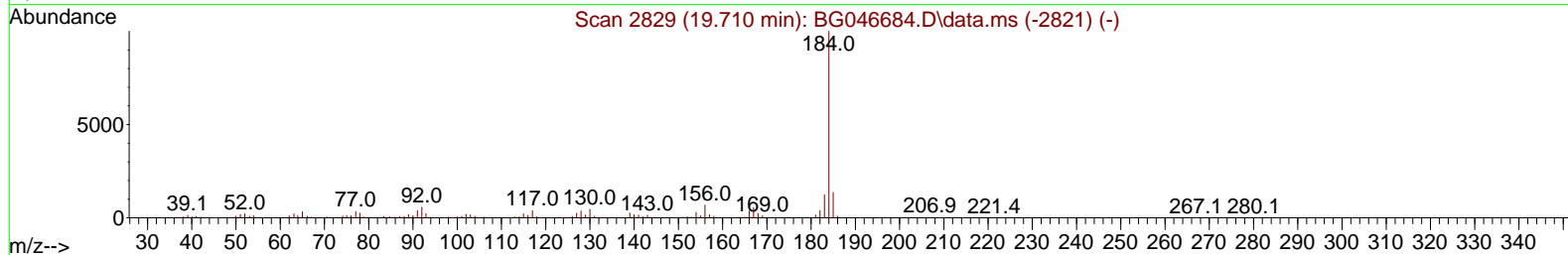
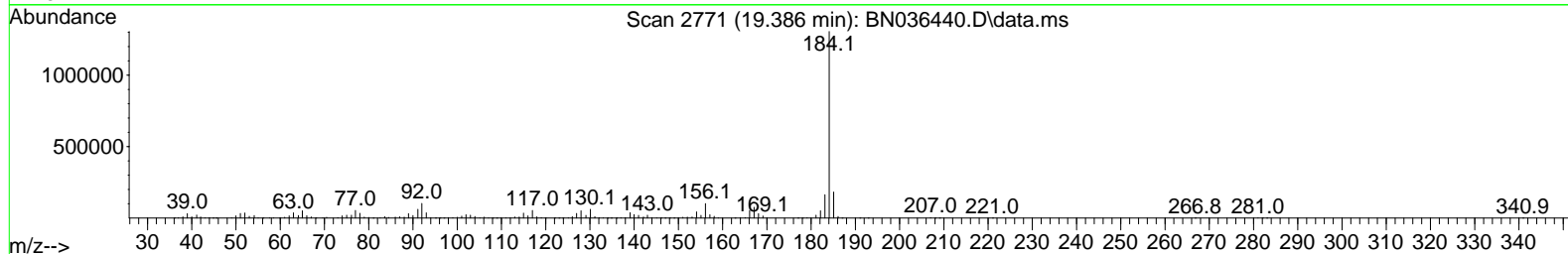
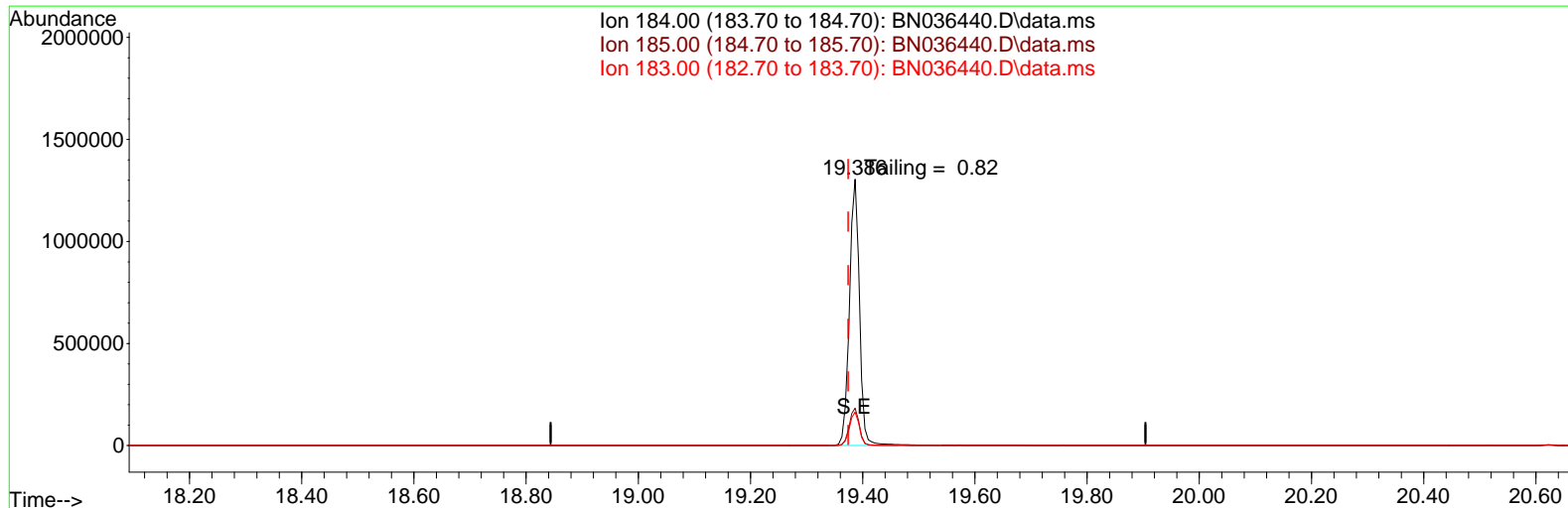
response 236291

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.22
264.00	61.60	65.47
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036440.D
 Acq On : 12 Feb 2025 15:09
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampleId :
 DFTPP

Quant Time: Feb 12 17:06:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 25 04:23:53 2024
 Response via : Initial Calibration



TIC: BN036440.D\data.ms

(77) Benzidine

19.386min (+ 0.012) 0.00 ng

response 1640537

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.01
183.00	13.20	12.53
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/12/2025	BNA_N	<u>BN036440.D</u>
Compound Name	Response	Retention Time
DDT	836564	20.622
DDD	8606	20.233
DDE	0	19.728
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8606	845170	1.02

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166675BL	SDG No.:	Q1347
Lab Sample ID:	PB166675BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036442.D	1	02/11/25 11:05	02/12/25 16:24	PB166675

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	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2370		7.753			
1146-65-2	Naphthalene-d8	5100		10.562			
15067-26-2	Acenaphthene-d10	2940		14.398			
1517-22-2	Phenanthrene-d10	6600		17.149			
1719-03-5	Chrysene-d12	5200		21.331			
1520-96-3	Perylene-d12	4640		23.595			

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\BN021225\
 Data File : BN036442.D
 Acq On : 12 Feb 2025 16:24
 Operator : RC/JU
 Sample : PB166675BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BL

Quant Time: Feb 12 17:37:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2366	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	5102	0.400	ng	0.02
13) Acenaphthene-d10	14.398	164	2942	0.400	ng	0.01
19) Phenanthrene-d10	17.149	188	6604	0.400	ng	0.01
29) Chrysene-d12	21.331	240	5195	0.400	ng	0.00
35) Perylene-d12	23.595	264	4640	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	2308	0.413	ng	0.00
5) Phenol-d6	6.937	99	2230	0.340	ng	0.00
8) Nitrobenzene-d5	8.918	82	1785	0.355	ng	0.01
11) 2-Methylnaphthalene-d10	12.162	152	2747	0.350	ng	0.02
14) 2,4,6-Tribromophenol	15.907	330	414	0.284	ng	0.02
15) 2-Fluorobiphenyl	13.041	172	3962	0.358	ng	0.02
27) Fluoranthene-d10	19.174	212	7210	0.393	ng	0.00
31) Terphenyl-d14	19.773	244	4909	0.443	ng	0.00

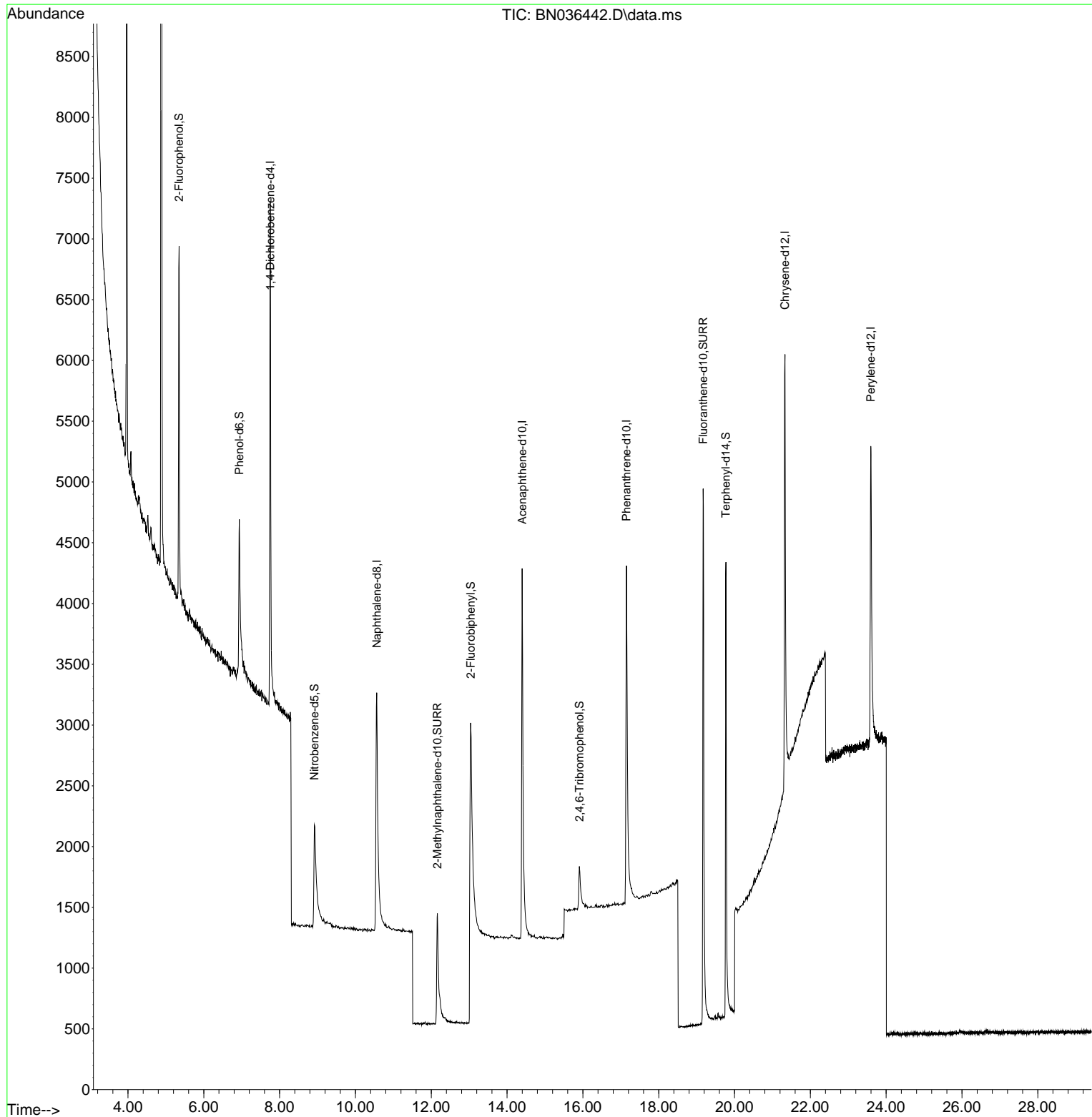
Target Compounds Qvalue

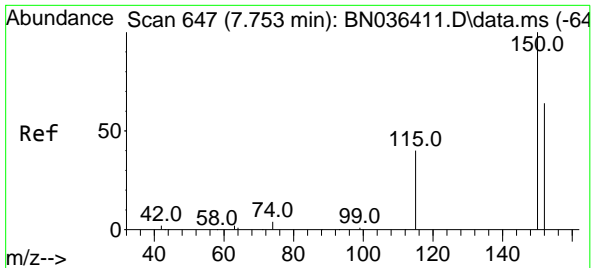
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
Data File : BN036442.D
Acq On : 12 Feb 2025 16:24
Operator : RC/JU
Sample : PB166675BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166675BL

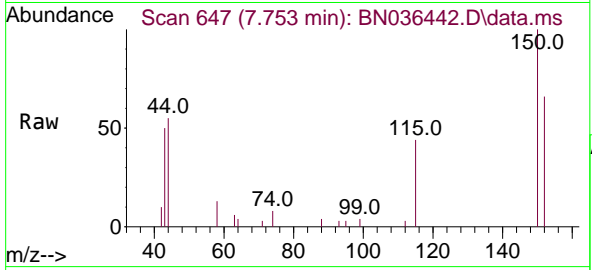
Quant Time: Feb 12 17:37:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration



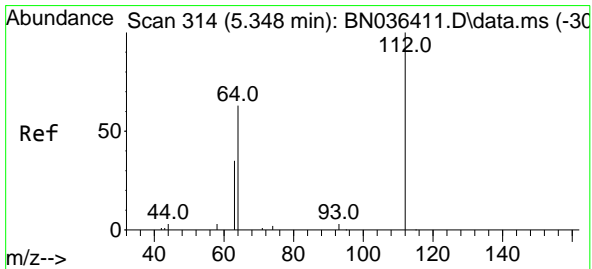
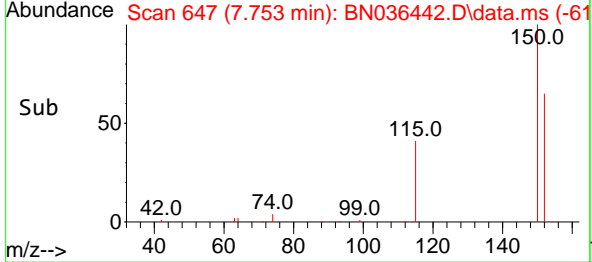
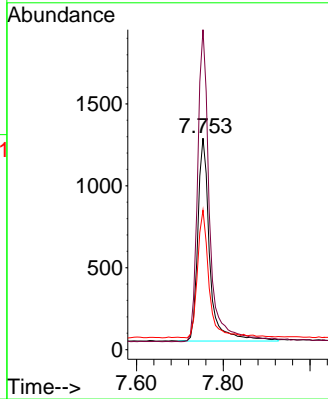


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BL

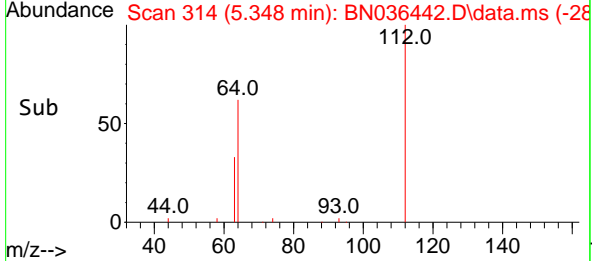
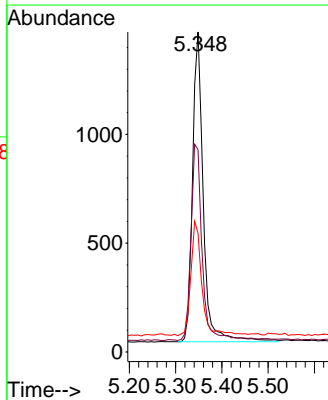
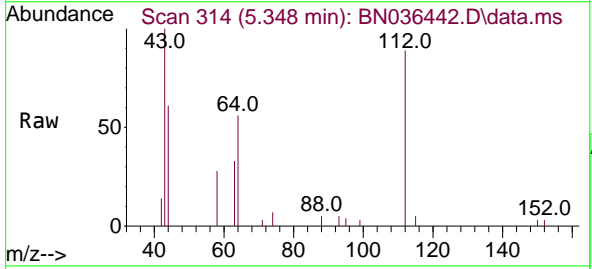


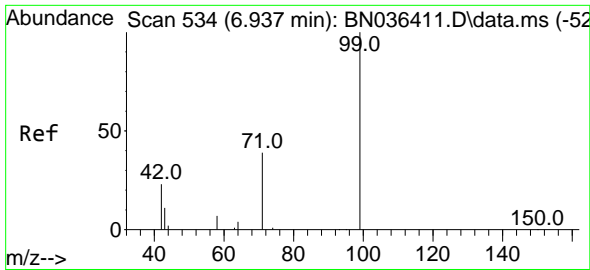
Tgt Ion:152 Resp: 2366
 Ion Ratio Lower Upper
 152 100
 150 151.3 123.7 185.5
 115 65.9 52.5 78.7



#4
 2-Fluorophenol
 Concen: 0.413 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

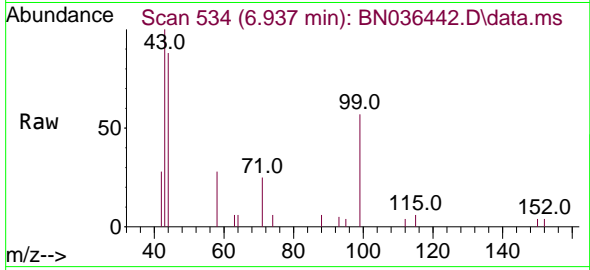
Tgt Ion:112 Resp: 2308
 Ion Ratio Lower Upper
 112 100
 64 66.2 53.4 80.0
 63 37.3 30.3 45.5





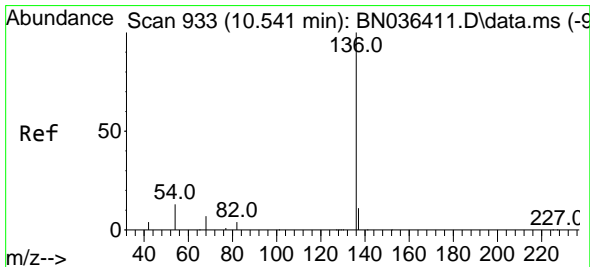
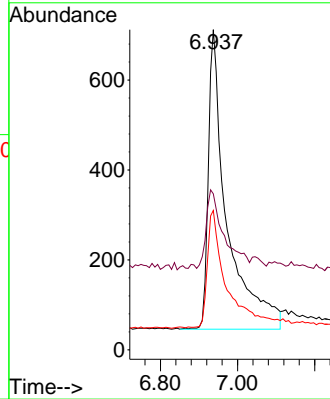
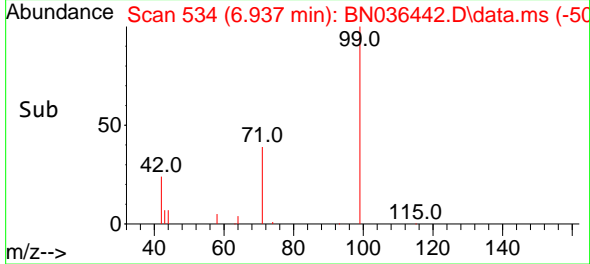
#5
 Phenol-d6
 Concen: 0.340 ng
 RT: 6.937 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BL

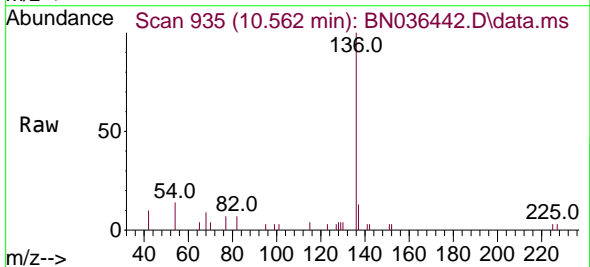


Tgt Ion: 99 Resp: 2230

Ion	Ratio	Lower	Upper
99	100		
42	24.9	21.7	32.5
71	41.0	32.6	49.0

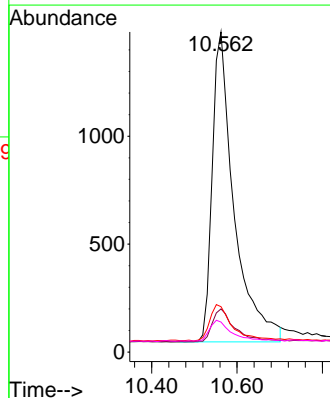
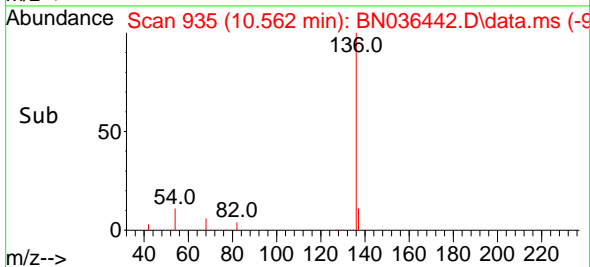


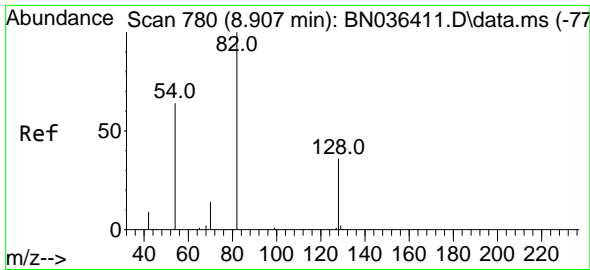
#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.562 min Scan# 935
 Delta R.T. 0.021 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24



Tgt Ion: 136 Resp: 5102

Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.1	15.1
54	14.2	11.8	17.6
68	9.4	7.2	10.8

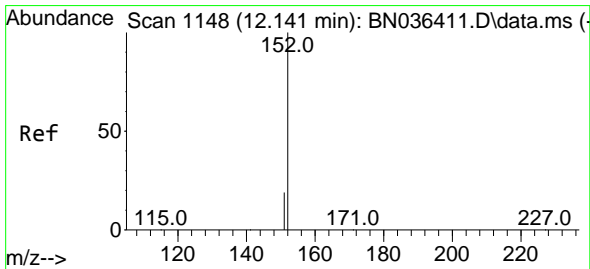
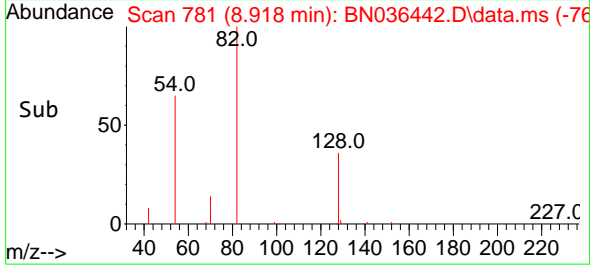
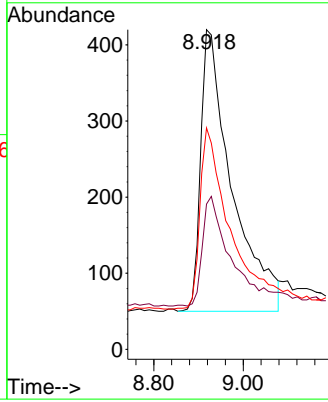
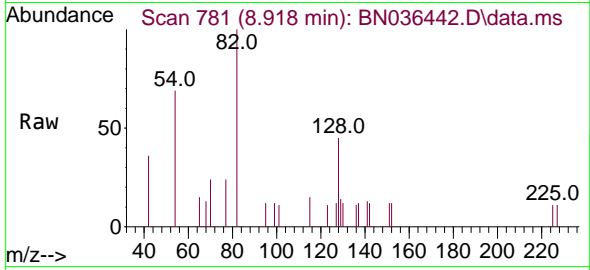




#8
 Nitrobenzene-d5
 Concen: 0.355 ng
 RT: 8.918 min Scan# 781
 Delta R.T. 0.011 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

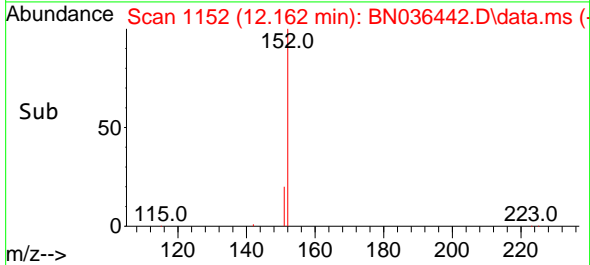
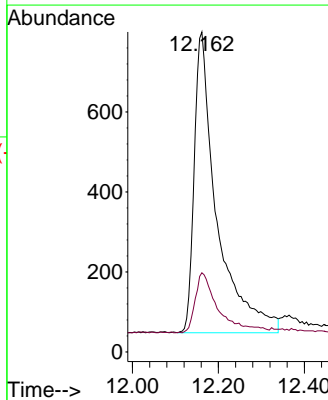
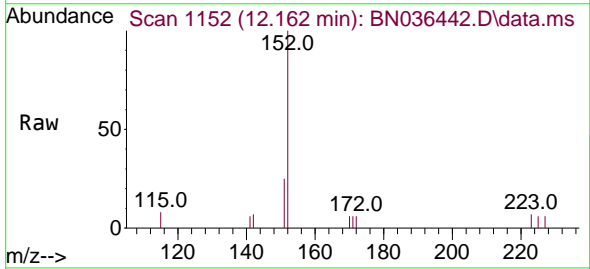
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BL

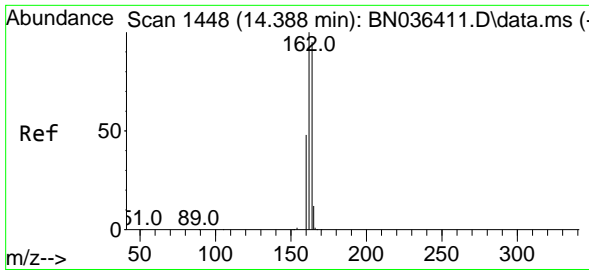
Tgt Ion	Resp	Lower	Upper
82	1785		
128	45.5	31.9	47.9
54	69.3	53.1	79.7



#11
 2-Methylnaphthalene-d10
 Concen: 0.350 ng
 RT: 12.162 min Scan# 1152
 Delta R.T. 0.020 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

Tgt Ion	Resp	Lower	Upper
152	2747		
151	20.5	16.6	25.0

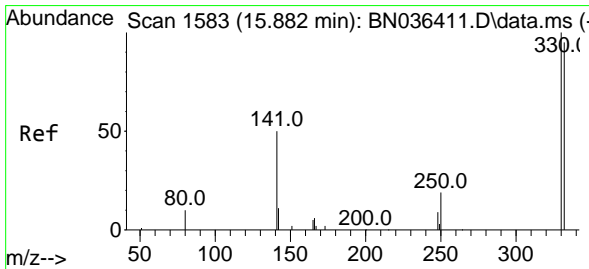
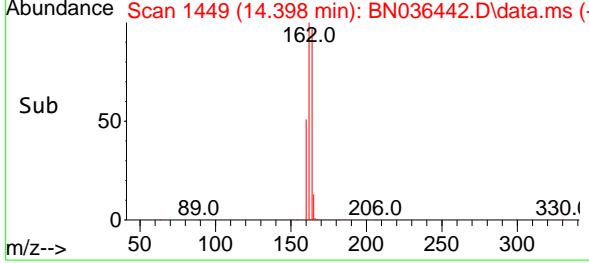
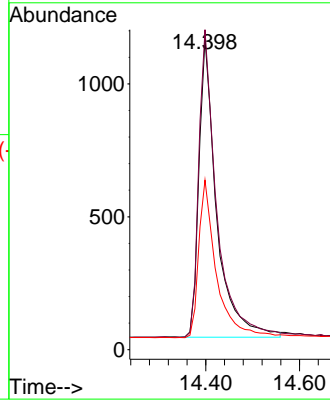
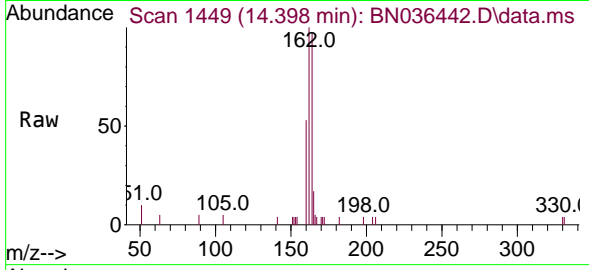




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.398 min Scan# 1448
 Delta R.T. 0.011 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

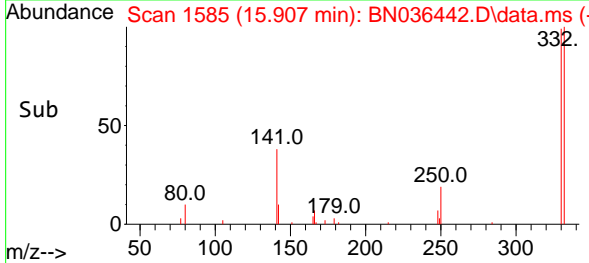
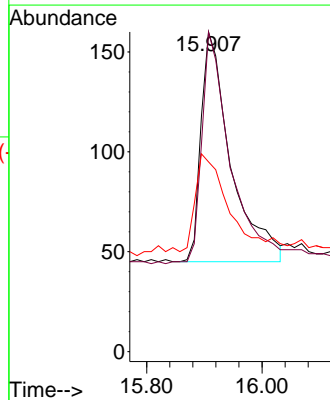
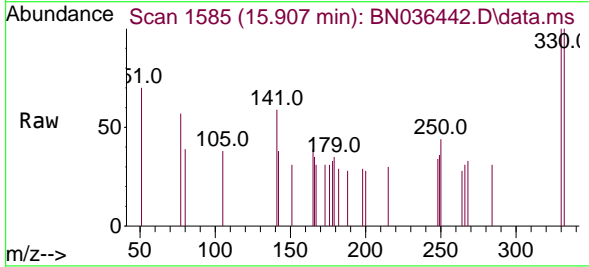
Instrument : BNA_N
 ClientSampleId : PB166675BL

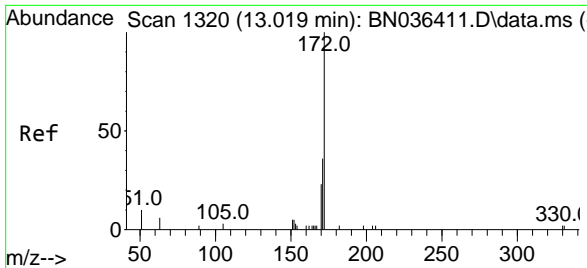
Tgt Ion	Resp	Lower	Upper
164	100		
162	102.9	84.1	126.1
160	54.5	41.4	62.0



#14
 2,4,6-Tribromophenol
 Concen: 0.284 ng
 RT: 15.907 min Scan# 1585
 Delta R.T. 0.025 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

Tgt Ion	Resp	Lower	Upper
330	100		
332	97.1	76.6	114.8
141	47.8	37.8	56.8

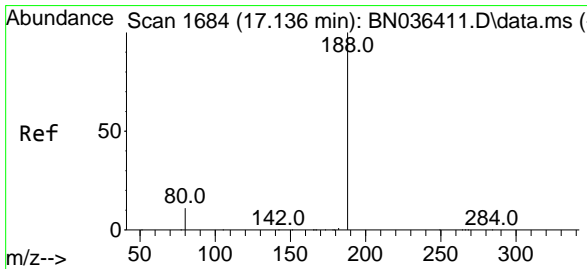
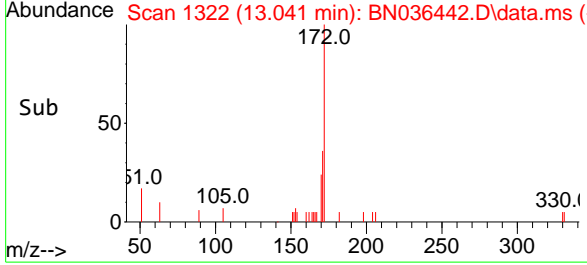
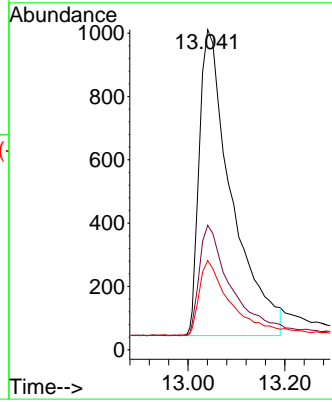
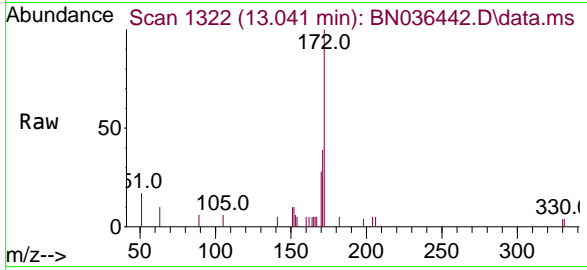




#15
 2-Fluorobiphenyl
 Concen: 0.358 ng
 RT: 13.041 min Scan# 11
 Delta R.T. 0.021 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

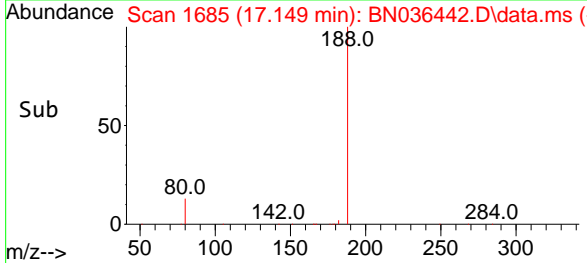
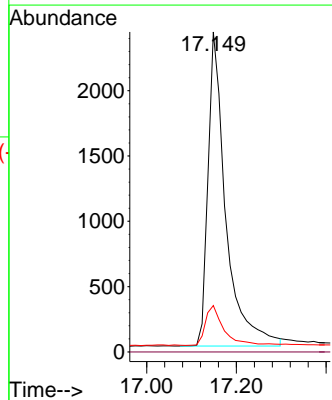
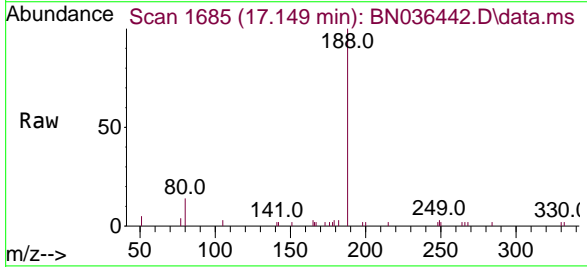
Instrument :
 BNA_N
ClientSampleId :
 PB166675BL

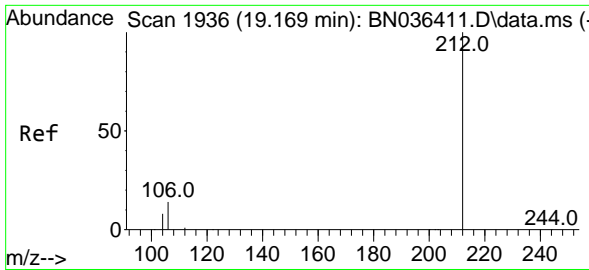
Tgt Ion	Resp	Lower	Upper
172	3962		
171	38.9	29.6	44.4
170	27.9	19.8	29.6



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.149 min Scan# 1685
 Delta R.T. 0.012 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

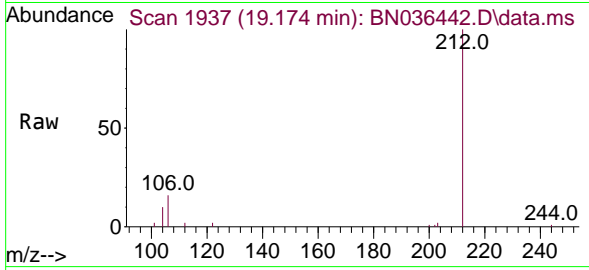
Tgt Ion	Resp	Lower	Upper
188	6604		
94	0.0	0.0	0.0
80	14.5	9.8	14.6





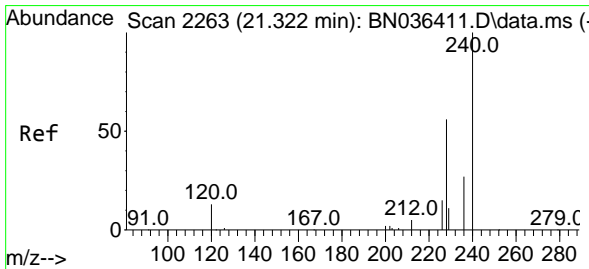
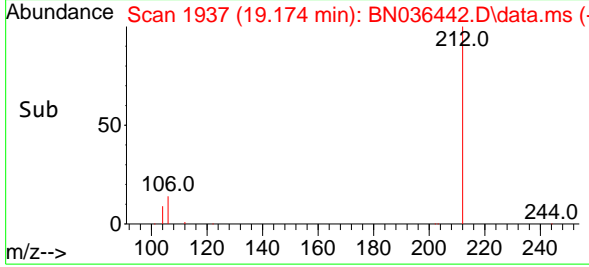
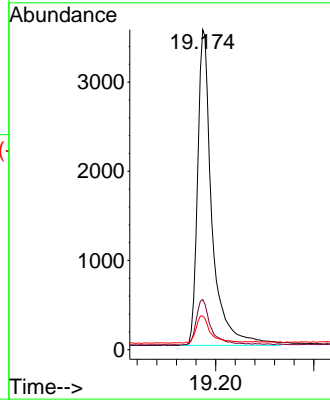
#27
 Fluoranthene-d10
 Concen: 0.393 ng
 RT: 19.174 min Scan# 1937
 Delta R.T. 0.005 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BL



Tgt Ion: 212 Resp: 7210

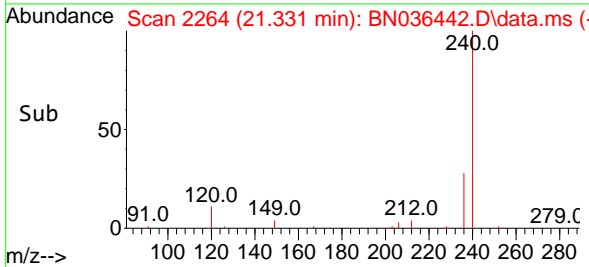
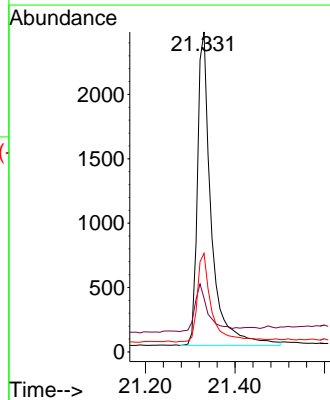
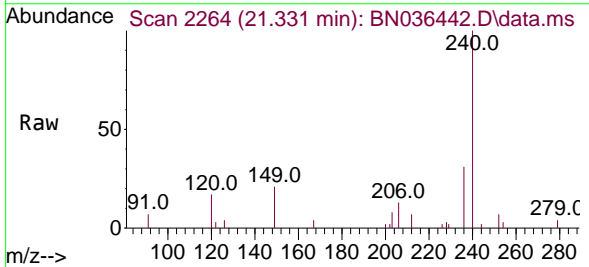
Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.5	17.3
104	8.8	7.1	10.7

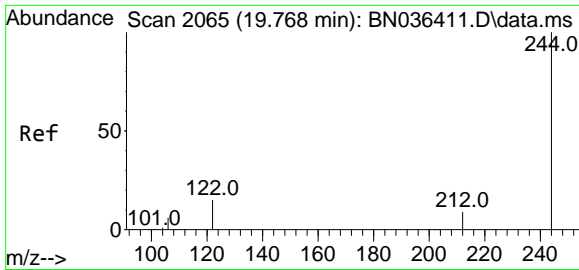


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.331 min Scan# 2264
 Delta R.T. 0.009 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

Tgt Ion: 240 Resp: 5195

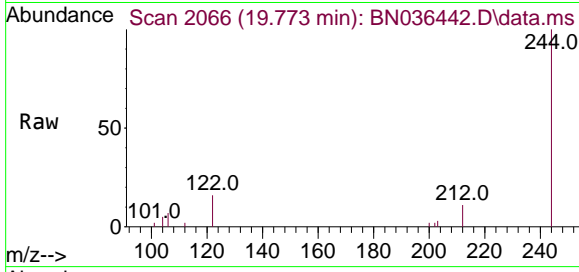
Ion	Ratio	Lower	Upper
240	100		
120	16.7	13.3	19.9
236	30.8	23.0	34.6



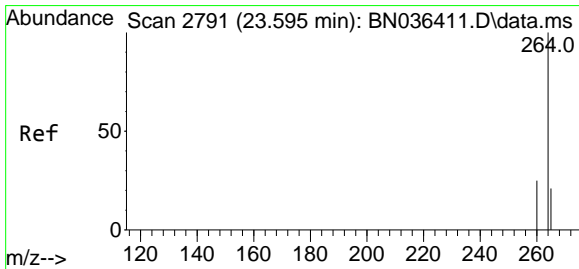
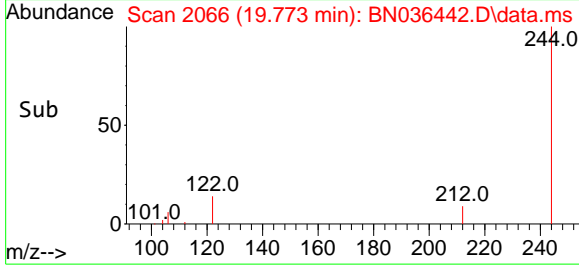
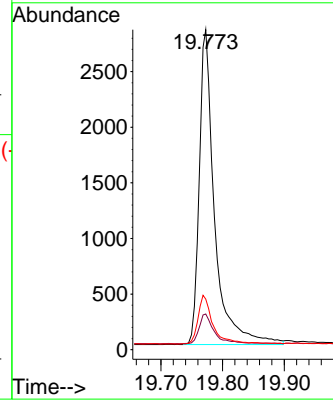


#31
 Terphenyl-d14
 Concen: 0.443 ng
 RT: 19.773 min Scan# 2066
 Delta R.T. 0.005 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BL

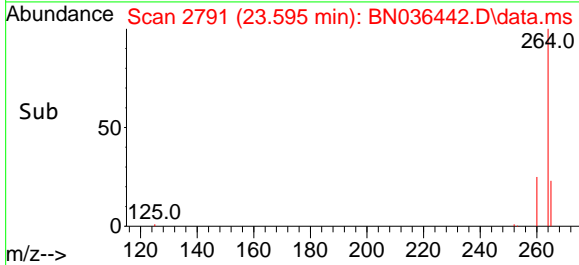
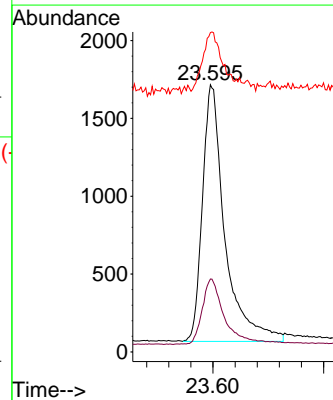
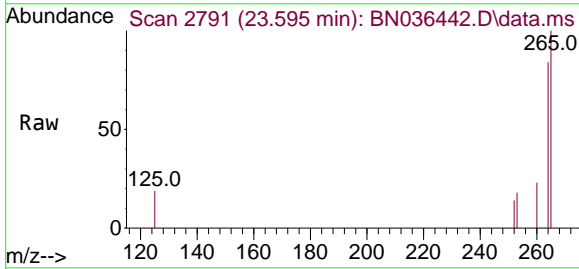


Tgt Ion:244 Resp: 4909
 Ion Ratio Lower Upper
 244 100
 212 11.2 8.1 12.1
 122 15.8 12.8 19.2



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.595 min Scan# 2791
 Delta R.T. -0.000 min
 Lab File: BN036442.D
 Acq: 12 Feb 2025 16:24

Tgt Ion:264 Resp: 4640
 Ion Ratio Lower Upper
 264 100
 260 27.3 20.9 31.3
 265 119.5 60.7 91.1#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166675BS	SDG No.:	Q1347
Lab Sample ID:	PB166675BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036456.D	1	02/11/25 11:05	02/13/25 00:47	PB166675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.44		30 - 150		109%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		113%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2560		7.753			
1146-65-2	Naphthalene-d8	6260		10.541			
15067-26-2	Acenaphthene-d10	3790		14.387			
1517-22-2	Phenanthrene-d10	8430		17.136			
1719-03-5	Chrysene-d12	5970		21.321			
1520-96-3	Perylene-d12	5190		23.589			

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\BN021225\
 Data File : BN036456.D
 Acq On : 13 Feb 2025 00:47
 Operator : RC/JU
 Sample : PB166675BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB166675BS

Manual Integrations**APPROVED**

Reviewed By :Anahy Claudio 02/13/2025

Supervised By :Jagrut Upadhyay 02/13/2025

Quant Time: Feb 13 01:17:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2556	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6260	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.387	164	3794	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	8432	0.400	ng	0.00	
29) Chrysene-d12	21.321	240	5969	0.400	ng	0.00	
35) Perylene-d12	23.589	264	5192	0.400	ng	# 0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	2667	0.441	ng	0.00	
5) Phenol-d6	6.930	99	3129	0.441	ng	0.00	
8) Nitrobenzene-d5	8.896	82	2352	0.381	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	4188m	0.435	ng	-0.01	
14) 2,4,6-Tribromophenol	15.882	330	661	0.351	ng	0.00	
15) 2-Fluorobiphenyl	13.008	172	6468	0.453	ng	-0.01	
27) Fluoranthene-d10	19.164	212	8486	0.362	ng	0.00	
31) Terphenyl-d14	19.768	244	5837	0.458	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	929	0.332	ng	# 72	Qvalue
3) n-Nitrosodimethylamine	3.571	42	2031	0.418	ng	# 96	
6) bis(2-Chloroethyl)ether	7.175	93	2961	0.399	ng	99	
9) Naphthalene	10.583	128	7143	0.395	ng	100	
10) Hexachlorobutadiene	10.882	225	1728	0.393	ng	# 100	
12) 2-Methylnaphthalene	12.207	142	4657	0.393	ng	99	
16) Acenaphthylene	14.109	152	7114	0.425	ng	99	
17) Acenaphthene	14.451	154	4535	0.405	ng	98	
18) Fluorene	15.435	166	6470	0.406	ng	99	
20) 4,6-Dinitro-2-methylph...	15.522	198	577	0.349	ng	# 78	
21) 4-Bromophenyl-phenylether	16.329	248	2007	0.399	ng	# 85	
22) Hexachlorobenzene	16.441	284	2508	0.404	ng	98	
23) Atrazine	16.602	200	1638	0.390	ng	93	
24) Pentachlorophenol	16.788	266	1379	0.468	ng	97	
25) Phenanthrene	17.173	178	9995	0.410	ng	99	
26) Anthracene	17.260	178	9154	0.426	ng	99	
28) Fluoranthene	19.196	202	10986	0.367	ng	99	
30) Pyrene	19.559	202	11216	0.488	ng	100	
32) Benzo(a)anthracene	21.303	228	8299	0.423	ng	99	
33) Chrysene	21.357	228	9402	0.442	ng	99	
34) Bis(2-ethylhexyl)phtha...	21.232	149	4731	0.387	ng	98	
36) Indeno(1,2,3-cd)pyrene	25.884	276	7632	0.421	ng	99	
37) Benzo(b)fluoranthene	22.902	252	7265	0.425	ng	96	
38) Benzo(k)fluoranthene	22.949	252	7949	0.452	ng	95	
39) Benzo(a)pyrene	23.487	252	6998	0.469	ng	95	
40) Dibenzo(a,h)anthracene	25.908	278	5616	0.392	ng	98	
41) Benzo(g,h,i)perylene	26.586	276	6107	0.376	ng	98	

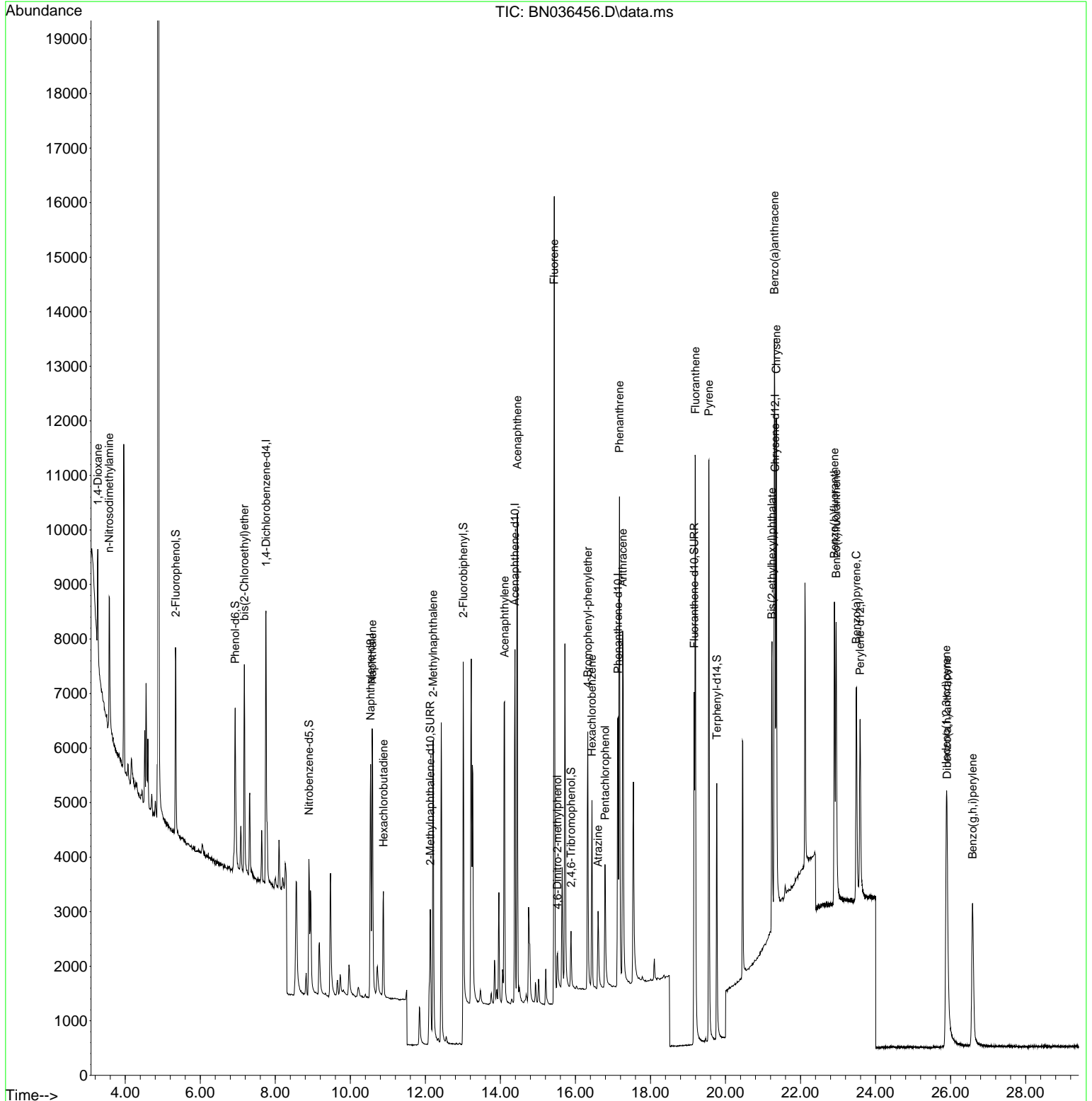
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036456.D
 Acq On : 13 Feb 2025 00:47
 Operator : RC/JU
 Sample : PB166675BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

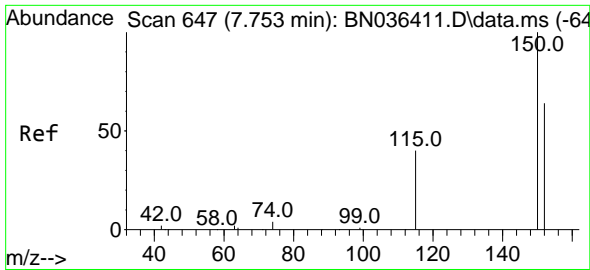
Instrument :
 BNA_N
ClientSampleId :
 PB166675BS

Quant Time: Feb 13 01:17:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED
 Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

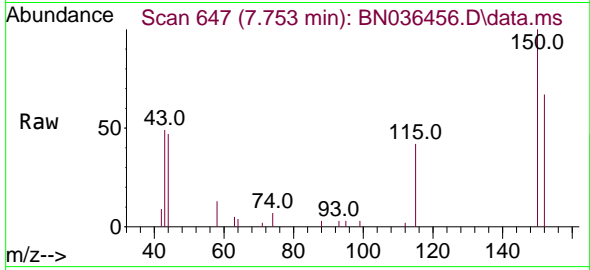


- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18



#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

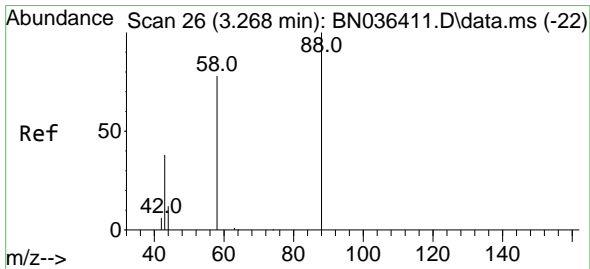
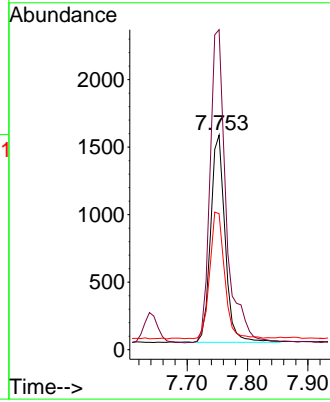
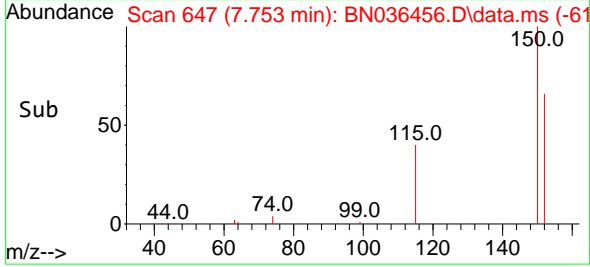
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



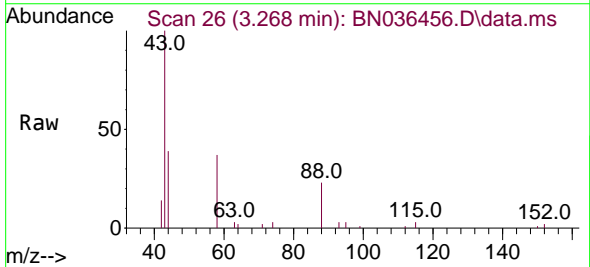
Tgt Ion:152 Resp: 255
 Ion Ratio Lower Upper
 152 100
 150 149.2 123.7 185.5
 115 63.4 52.5 78.7

Manual Integrations
APPROVED

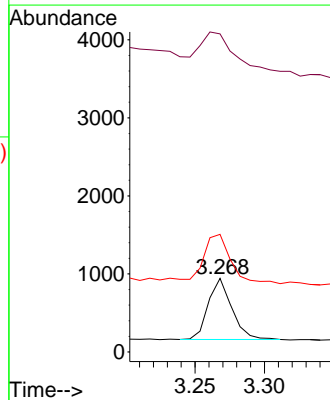
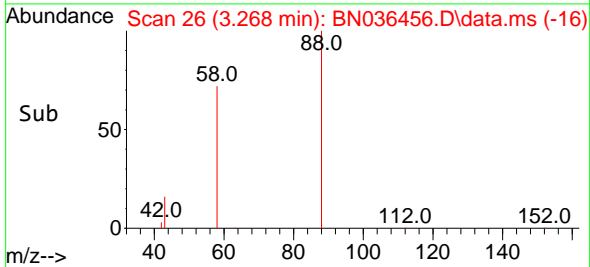
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

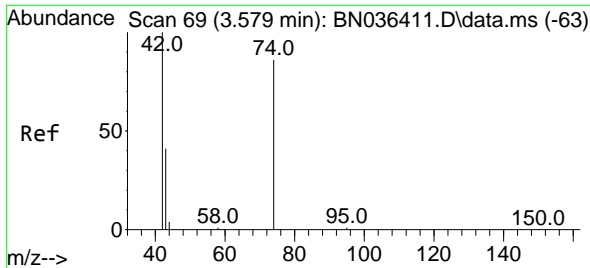


#2
 1,4-Dioxane
 Concen: 0.332 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion: 88 Resp: 929
 Ion Ratio Lower Upper
 88 100
 43 87.7 33.7 50.5#
 58 92.6 68.9 103.3





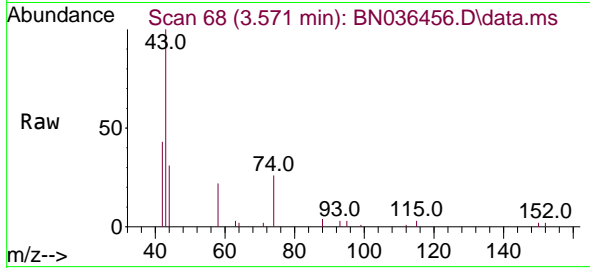
#3
 n-Nitrosodimethylamine
 Concen: 0.418 ng
 RT: 3.571 min Scan# 68
 Delta R.T. -0.008 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :

BNA_N

ClientSampleId :

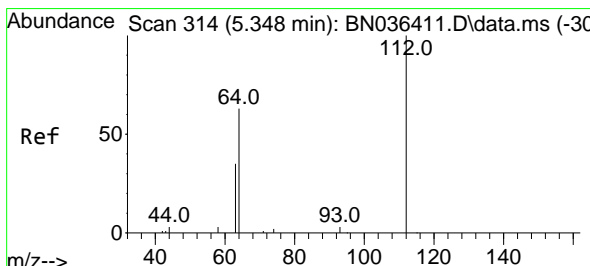
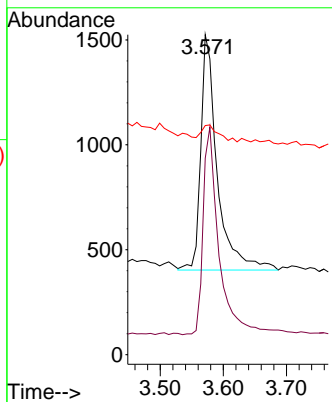
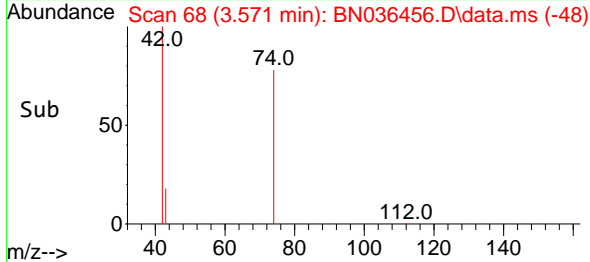
PB166675BS



Tgt Ion: 42 Resp: 203
 Ion Ratio Lower Upper
 42 100
 74 85.9 71.8 107.6
 44 7.4 7.8 11.6

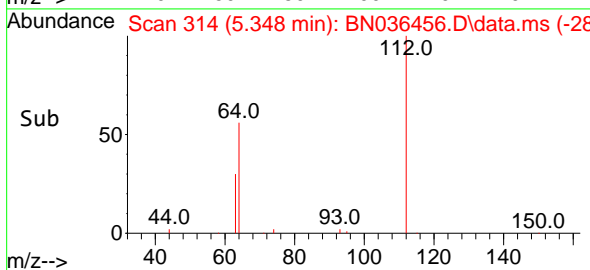
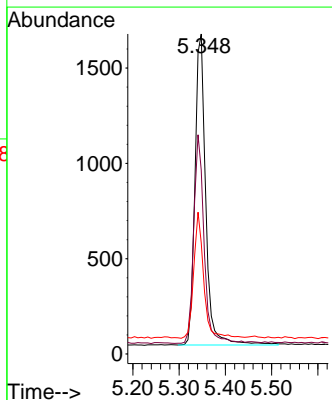
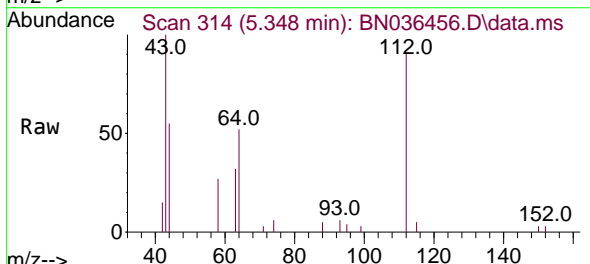
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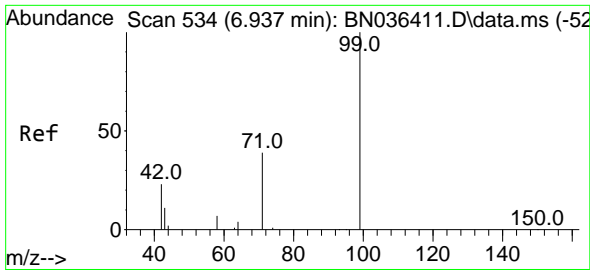
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025



#4
 2-Fluorophenol
 Concen: 0.441 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

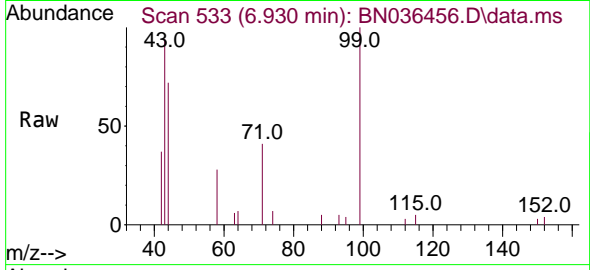
Tgt Ion:112 Resp: 2667
 Ion Ratio Lower Upper
 112 100
 64 64.0 53.4 80.0
 63 37.4 30.3 45.5





#5
 Phenol-d6
 Concen: 0.441 ng
 RT: 6.930 min Scan# 511
 Delta R.T. -0.008 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

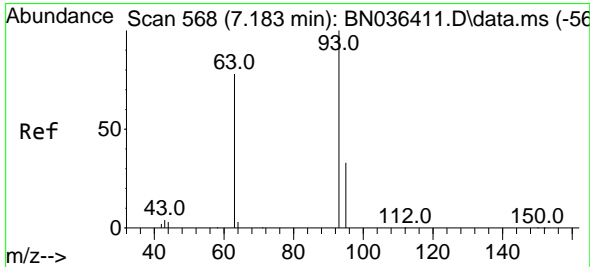
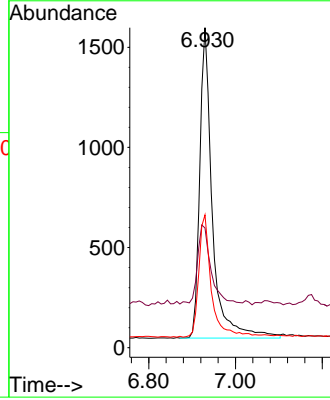
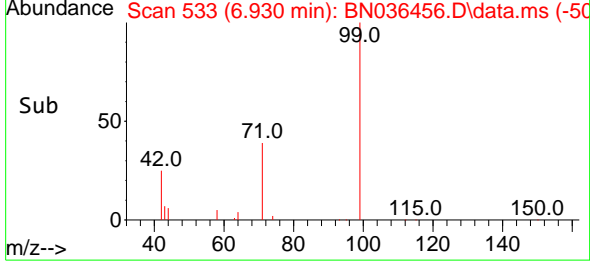
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



Tgt Ion: 99 Resp: 3129
 Ion Ratio Lower Upper
 99 100
 42 27.4 21.7 32.5
 71 39.5 32.6 49.0

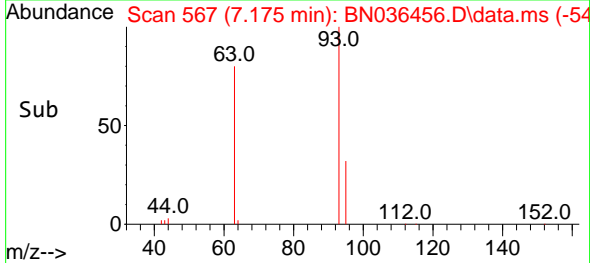
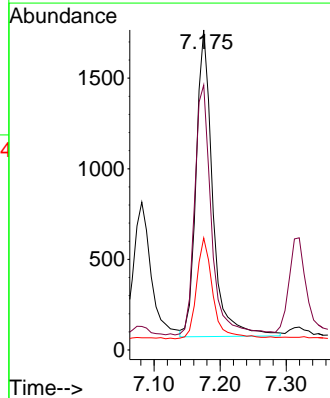
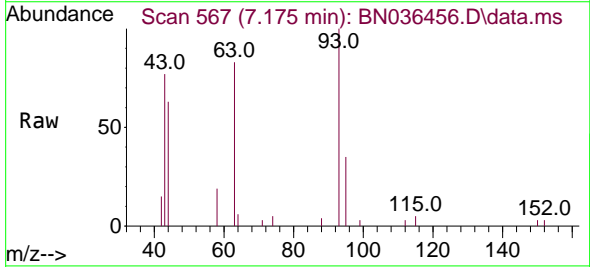
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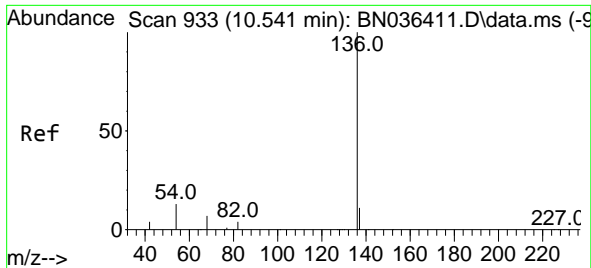
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025



#6
 bis(2-Chloroethyl)ether
 Concen: 0.399 ng
 RT: 7.175 min Scan# 567
 Delta R.T. -0.008 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion: 93 Resp: 2961
 Ion Ratio Lower Upper
 93 100
 63 81.9 66.3 99.5
 95 32.2 26.2 39.4





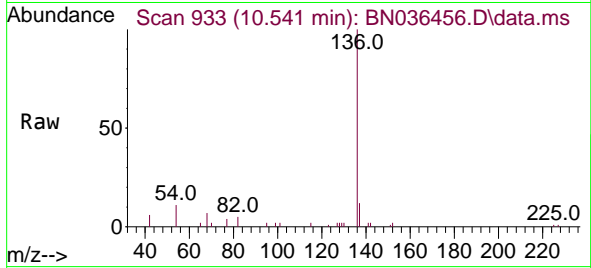
#7
Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :

BNA_N

ClientSampleId :

PB166675BS



Tgt Ion: 136 Resp: 6260

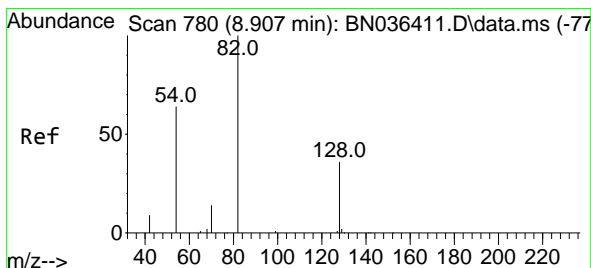
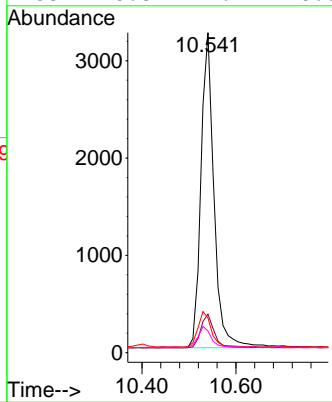
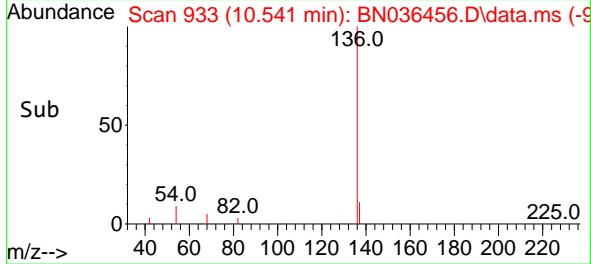
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.1	15.1
54	10.9	11.8	17.6
68	6.8	7.2	10.8

Manual Integrations

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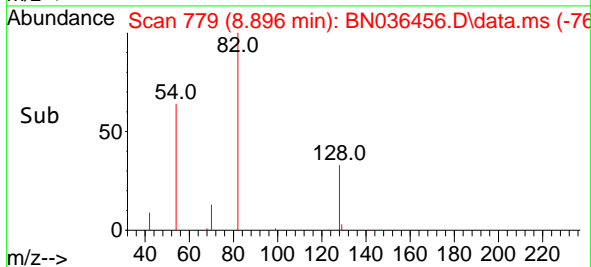
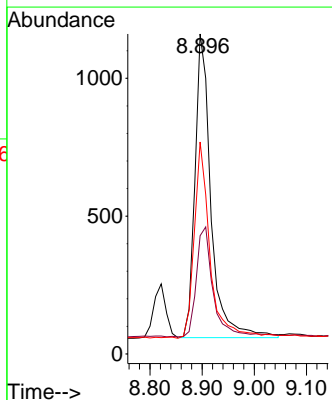
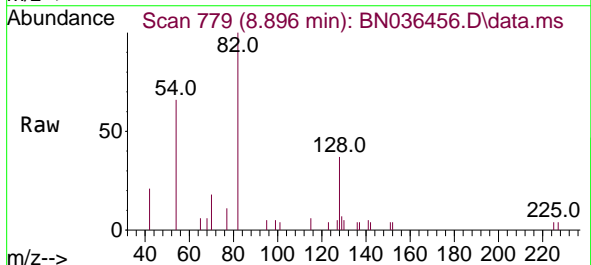
Supervised By :Jagrut Upadhyay 02/13/2025

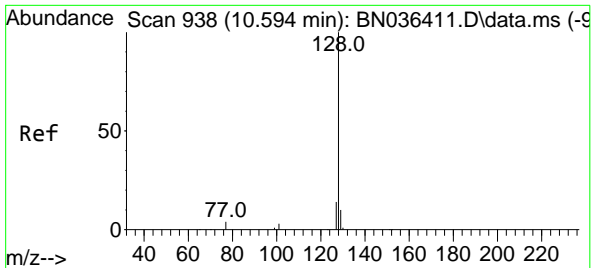


#8
Nitrobenzene-d5
 Concen: 0.381 ng
 RT: 8.896 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion: 82 Resp: 2352

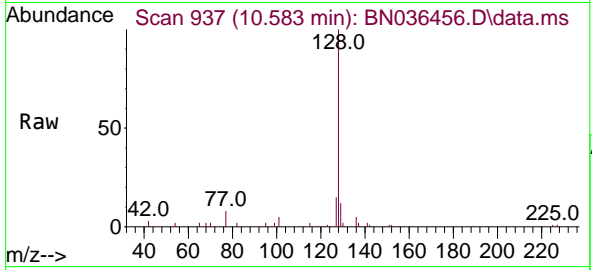
Ion	Ratio	Lower	Upper
82	100		
128	37.0	31.9	47.9
54	66.2	53.1	79.7





#9
Naphthalene
 Concen: 0.395 ng
 RT: 10.583 min Scan# 911
 Delta R.T. -0.011 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

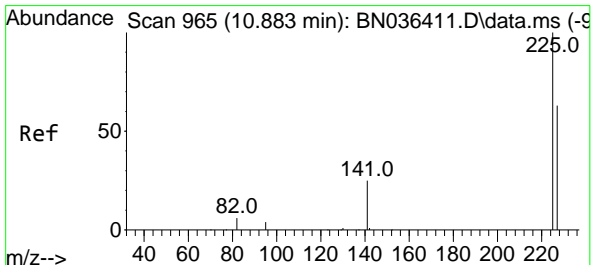
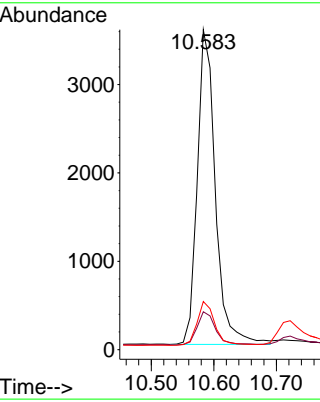
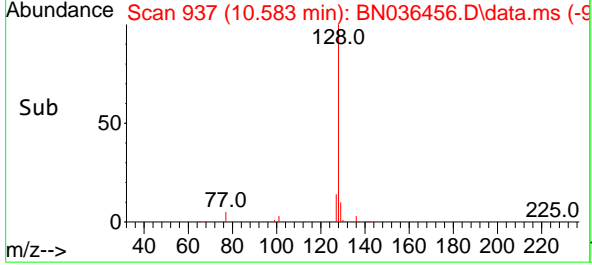
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



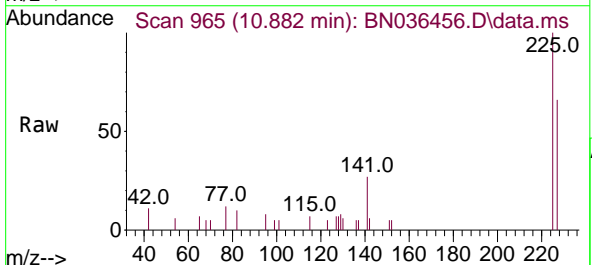
Tgt Ion:128 Resp: 714

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.6	14.4
127	15.0	12.0	18.0

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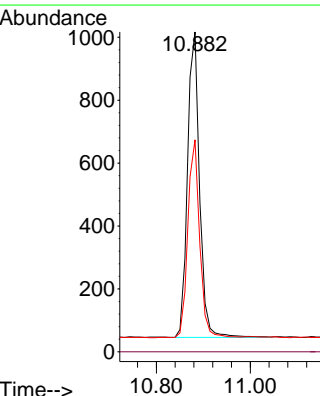
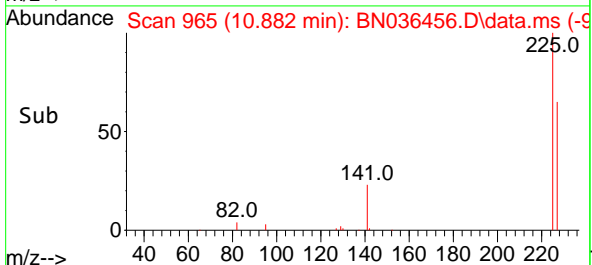


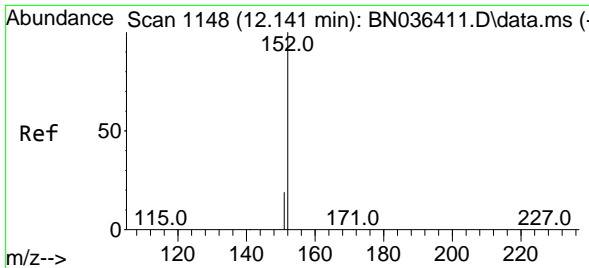
#10
Hexachlorobutadiene
 Concen: 0.393 ng
 RT: 10.882 min Scan# 965
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion:225 Resp: 1728

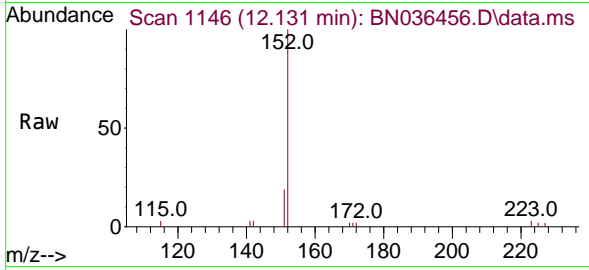
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.9	76.3





#11
 2-Methylnaphthalene-d10
 Concen: 0.435 ng m
 RT: 12.131 min Scan# 1148
 Delta R.T. -0.010 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

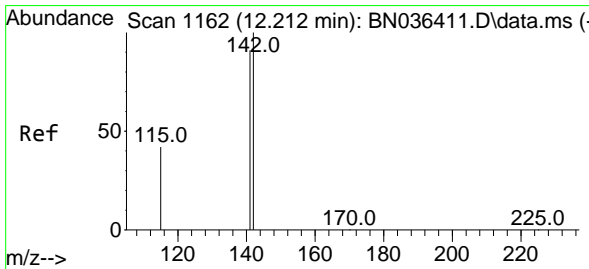
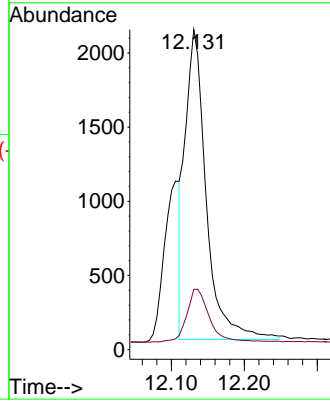
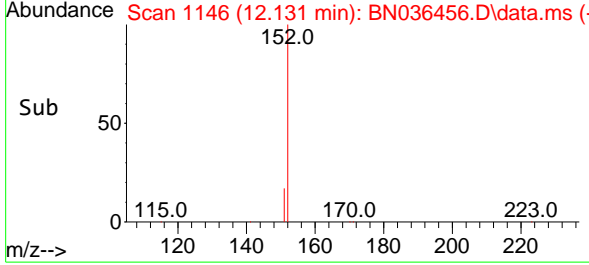
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



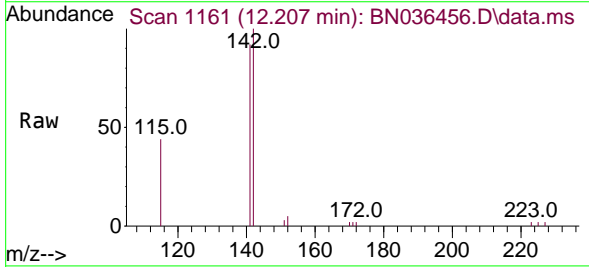
Tgt Ion:152 Resp: 4188
 Ion Ratio Lower Upper
 152 100
 151 19.0 16.6 25.0

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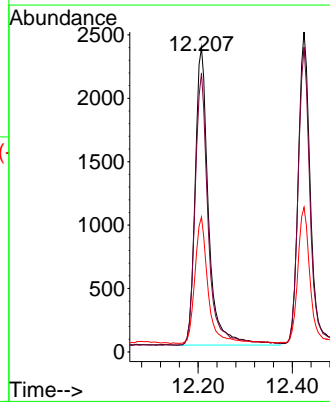
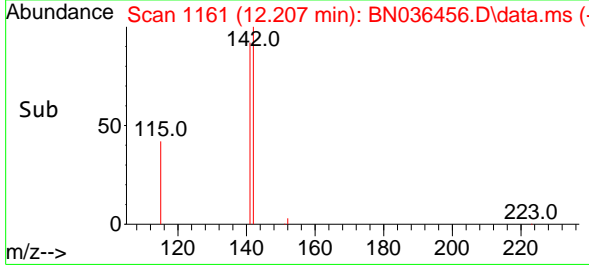
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

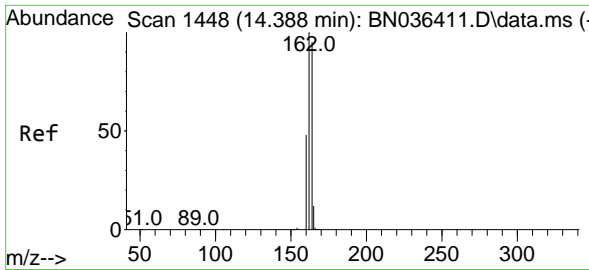


#12
 2-Methylnaphthalene
 Concen: 0.393 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion:142 Resp: 4657
 Ion Ratio Lower Upper
 142 100
 141 91.6 72.8 109.2
 115 44.3 35.5 53.3





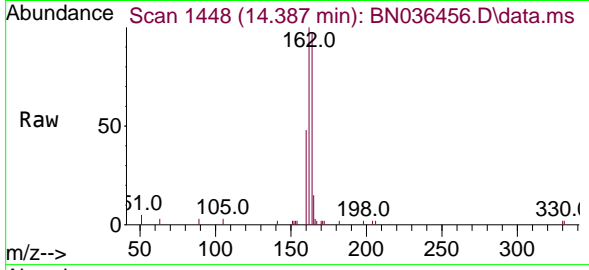
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 1448
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :

BNA_N

ClientSampleId :

PB166675BS



Tgt Ion:164 Resp: 3794

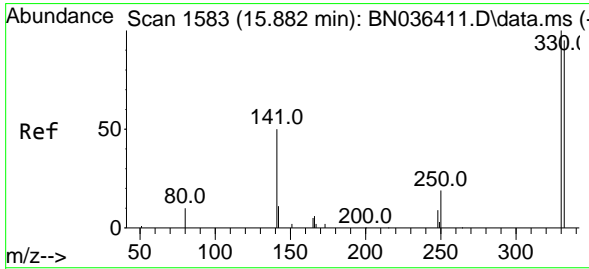
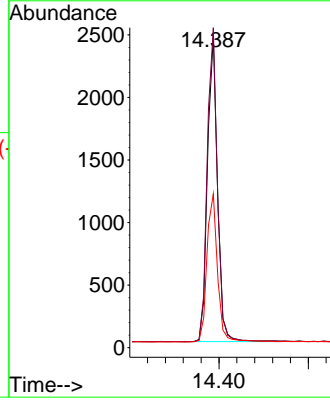
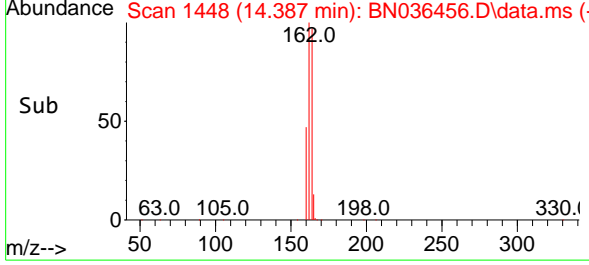
Ion	Ratio	Lower	Upper
164	100		
162	102.9	84.1	126.1
160	49.4	41.4	62.0

Manual Integrations

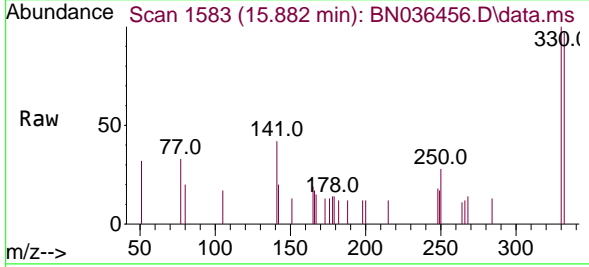
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Reviewed By :Anahy Claudio 02/13/2025

Supervised By :Jagrut Upadhyay 02/13/2025

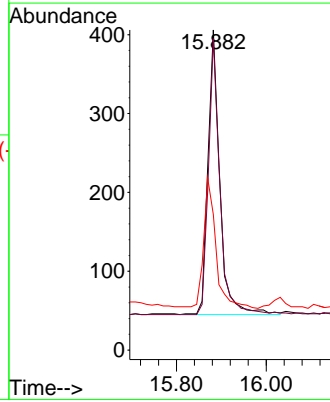
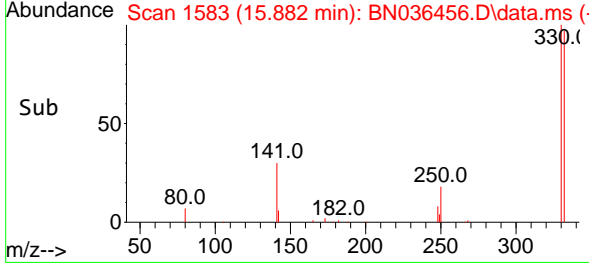


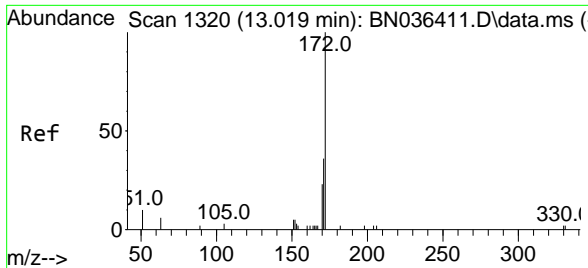
#14
 2,4,6-Tribromophenol
 Concen: 0.351 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion:330 Resp: 661

Ion	Ratio	Lower	Upper
330	100		
332	93.8	76.6	114.8
141	47.4	37.8	56.8





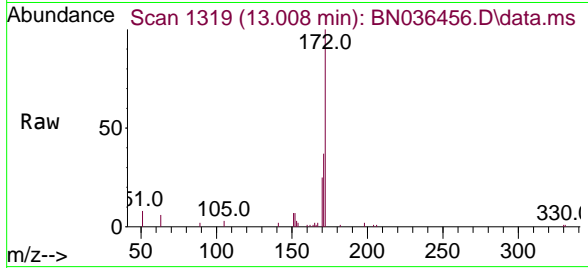
#15
 2-Fluorobiphenyl
 Concen: 0.453 ng
 RT: 13.008 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :

BNA_N

ClientSampleId :

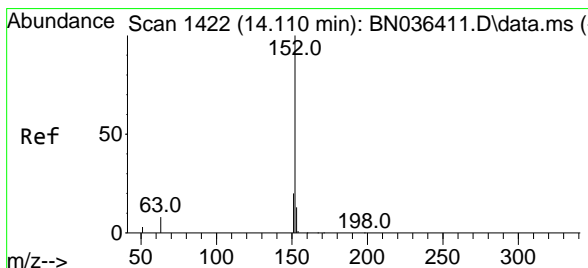
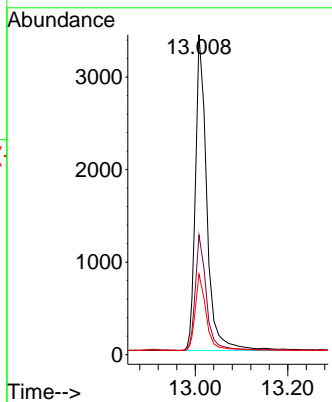
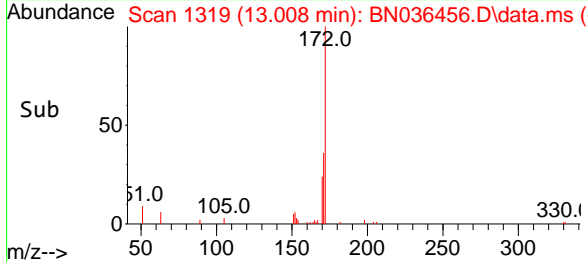
PB166675BS



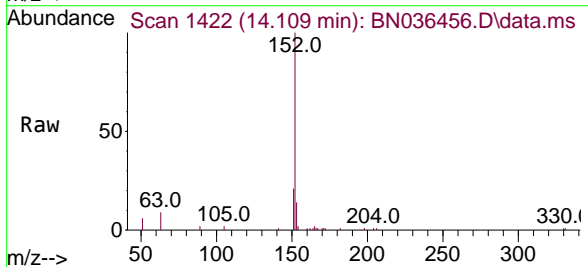
Tgt Ion:172 Resp: 6468
 Ion Ratio Lower Upper
 172 100
 171 37.3 29.6 44.4
 170 25.1 19.8 29.6

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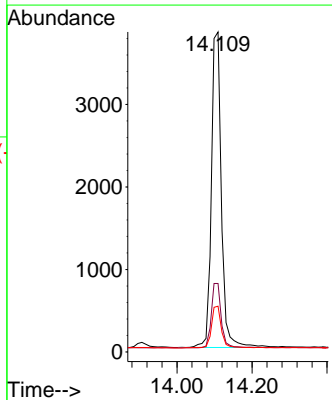
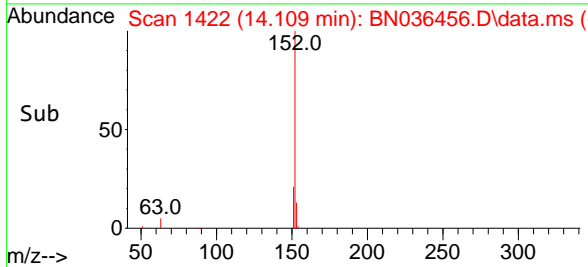
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

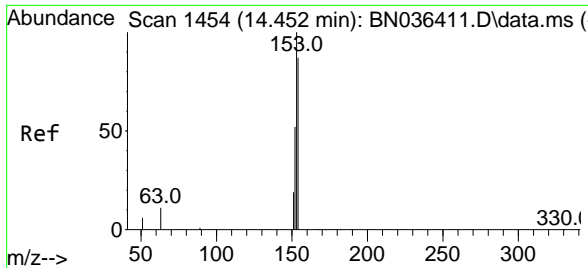


#16
 Acenaphthylene
 Concen: 0.425 ng
 RT: 14.109 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion:152 Resp: 7114
 Ion Ratio Lower Upper
 152 100
 151 20.4 15.8 23.8
 153 13.3 10.2 15.2





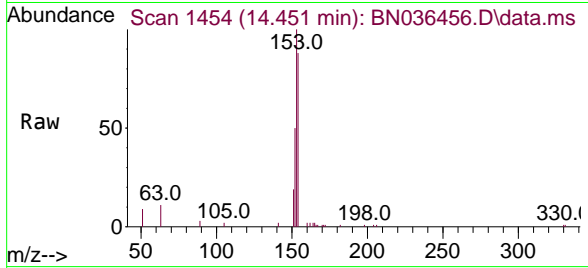
#17
 Acenaphthene
 Concen: 0.405 ng
 RT: 14.451 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :

BNA_N

ClientSampleId :

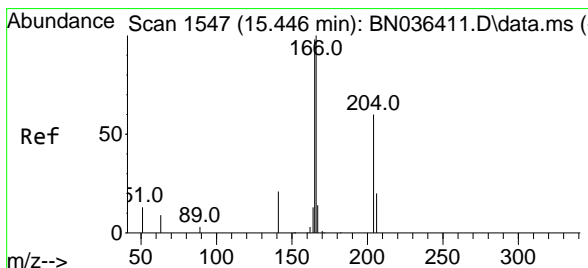
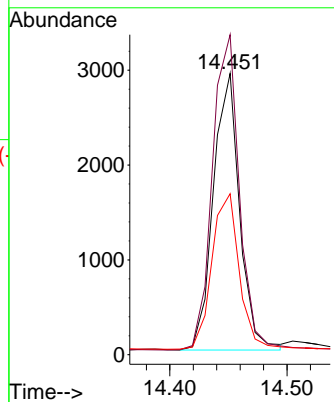
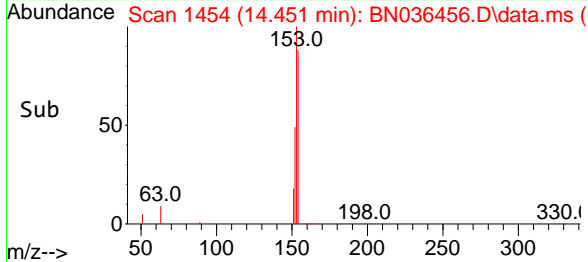
PB166675BS



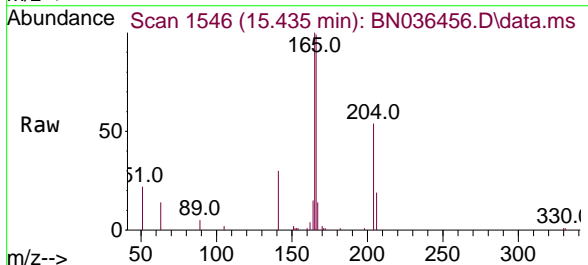
Tgt Ion:154 Resp: 453
 Ion Ratio Lower Upper
 154 100
 153 118.1 93.3 139.9
 152 59.3 48.8 73.2

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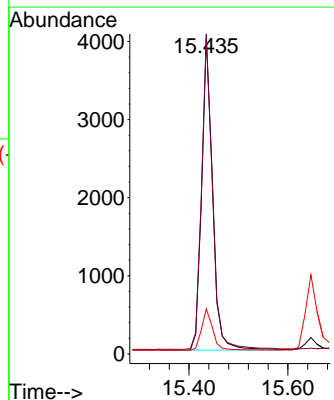
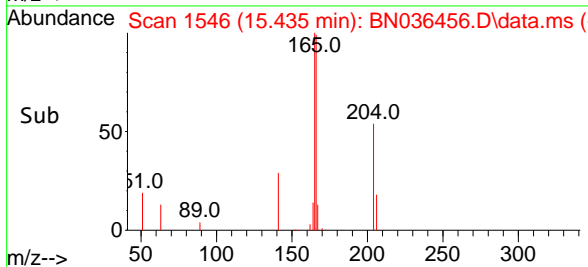
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

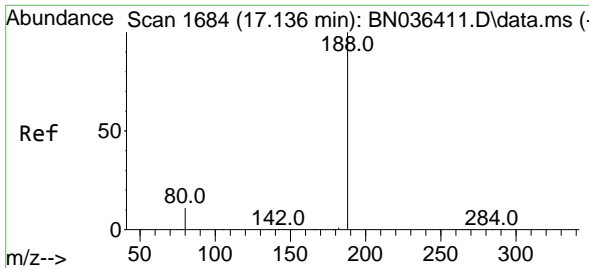


#18
 Fluorene
 Concen: 0.406 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion:166 Resp: 6470
 Ion Ratio Lower Upper
 166 100
 165 100.6 79.5 119.3
 167 13.4 10.4 15.6





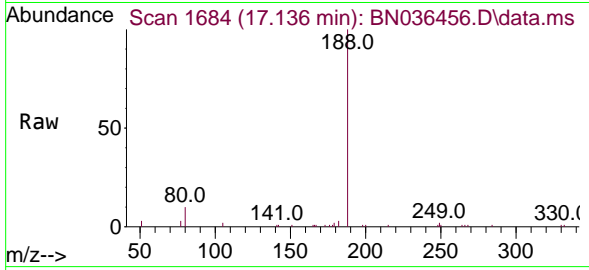
#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 10
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :

BNA_N

ClientSampleId :

PB166675BS



Tgt Ion:188 Resp: 843

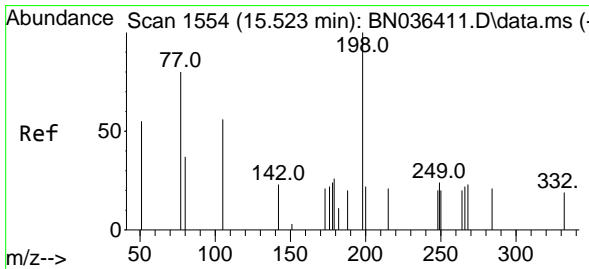
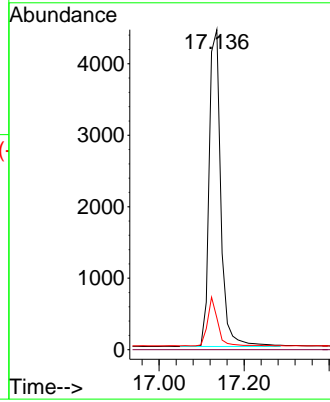
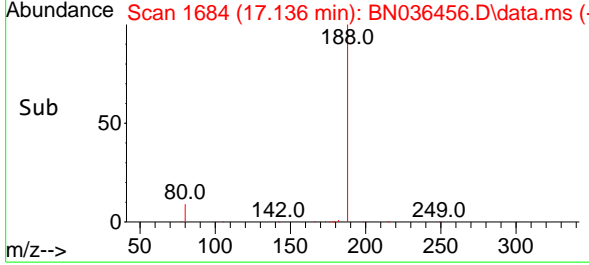
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	9.8	14.6

Manual Integrations

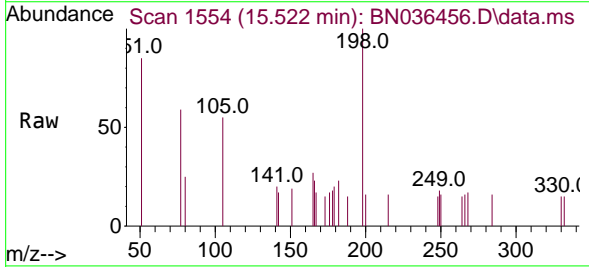
APPROVED

Reviewed By :Anahy Claudio 02/13/2025

Supervised By :Jagrut Upadhyay 02/13/2025

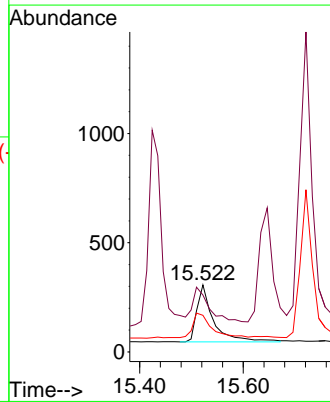
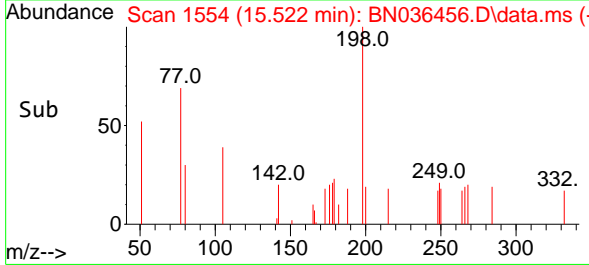


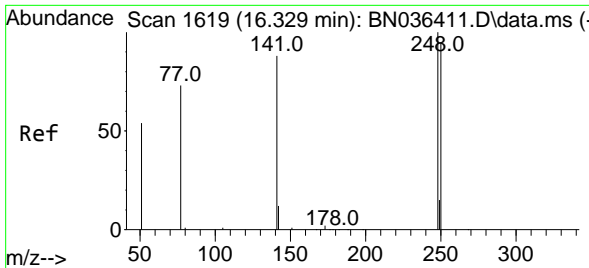
#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.349 ng
 RT: 15.522 min Scan# 1554
 Delta R.T. -0.001 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion:198 Resp: 577

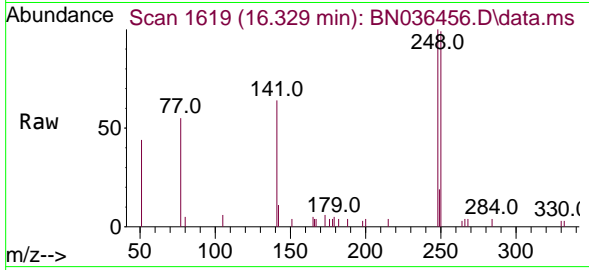
Ion	Ratio	Lower	Upper
198	100		
51	85.0	86.6	129.8#
105	54.7	57.5	86.3#





#21
 4-Bromophenyl-phenylether
 Concen: 0.399 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

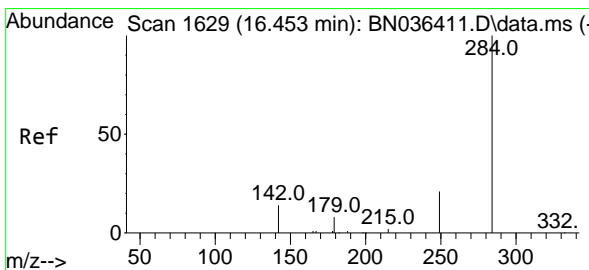
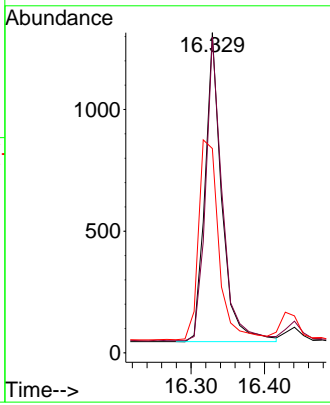
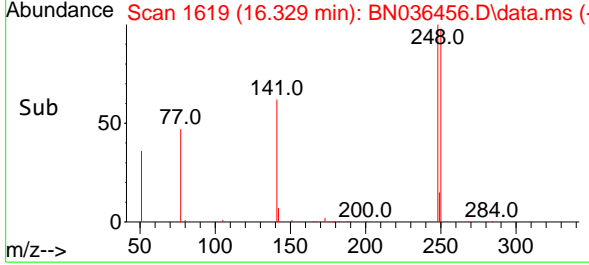


Tgt Ion: 248 Resp: 2000

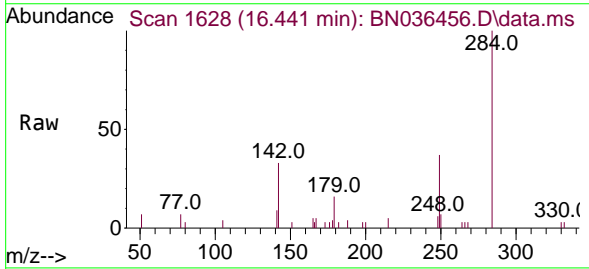
Ion	Ratio	Lower	Upper
248	100		
250	98.6	76.1	114.1
141	63.8	71.7	107.5

Manual Integrations
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 Supervised By :Jagrut Upadhyay 02/13/2025

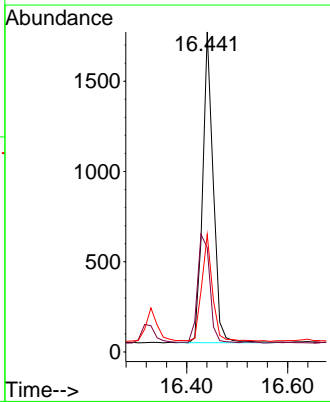
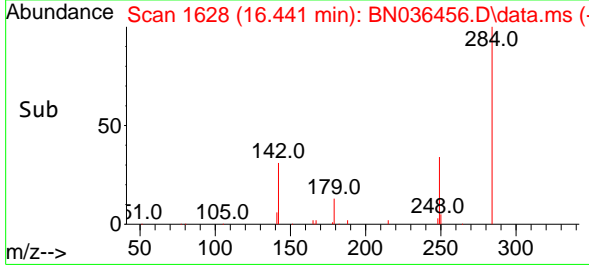


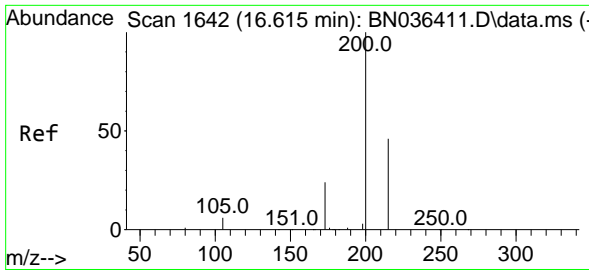
#22
 Hexachlorobenzene
 Concen: 0.404 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.013 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion: 284 Resp: 2508

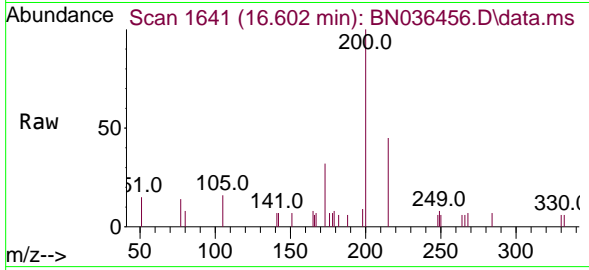
Ion	Ratio	Lower	Upper
284	100		
142	40.3	33.4	50.0
249	35.3	28.6	43.0





#23
Atrazine
 Concen: 0.390 ng
 RT: 16.602 min Scan# 1638
 Delta R.T. -0.013 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
ClientSampleId :
 PB166675BS

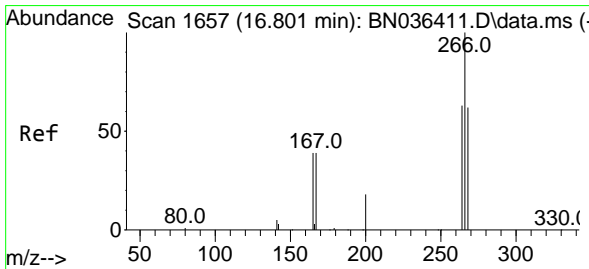
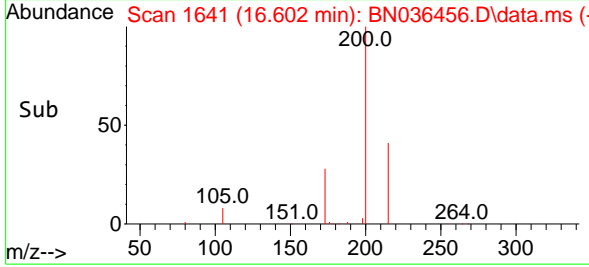
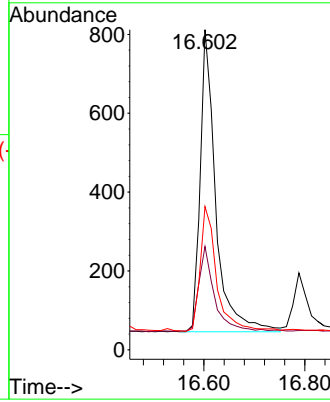


Tgt Ion: 200 Resp: 1638

Ion	Ratio	Lower	Upper
200	100		
173	32.3	23.2	34.8
215	44.7	40.0	60.0

Manual Integrations
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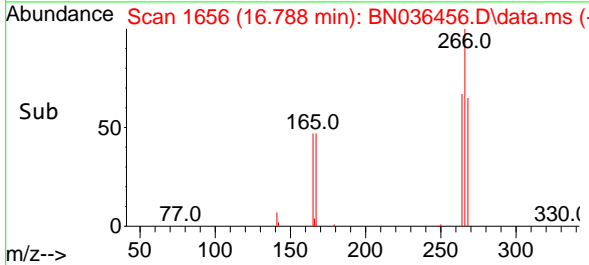
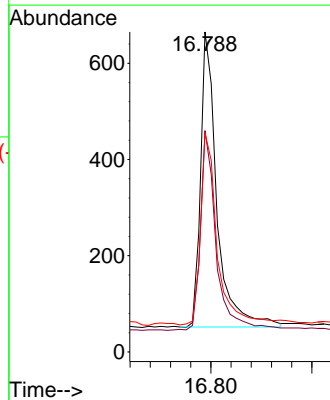
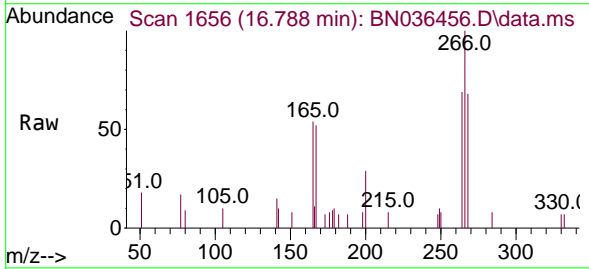
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

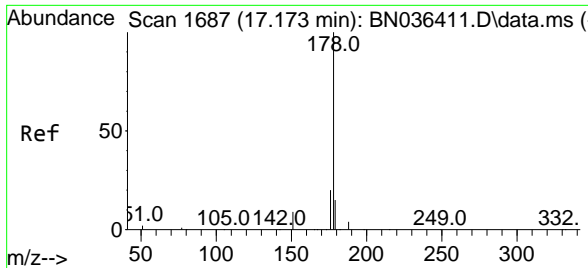


#24
Pentachlorophenol
 Concen: 0.468 ng
 RT: 16.788 min Scan# 1656
 Delta R.T. -0.013 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion: 266 Resp: 1379

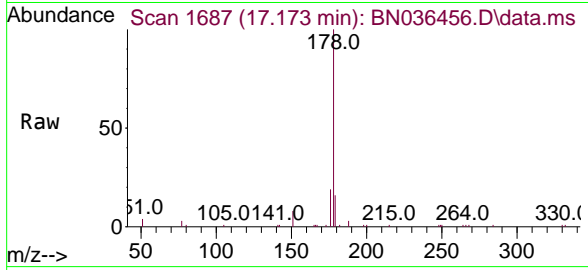
Ion	Ratio	Lower	Upper
266	100		
264	65.1	50.6	76.0
268	67.6	51.9	77.9





#25
 Phenanthrene
 Concen: 0.410 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

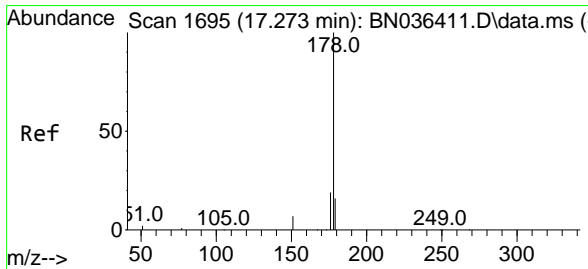
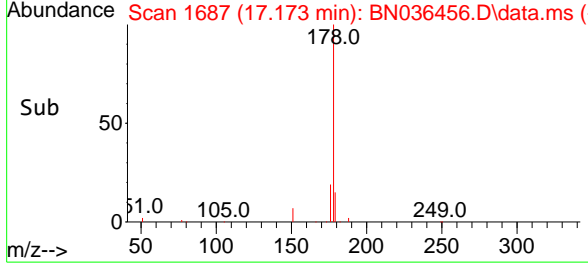
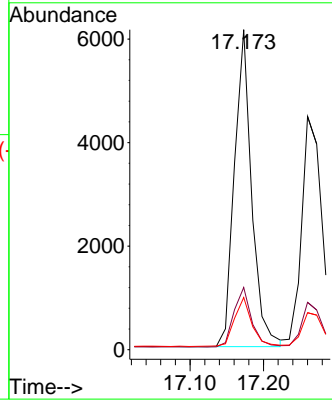
Instrument :
 BNA_N
 Client Sample Id :
 PB166675BS



Tgt Ion:178 Resp: 999
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.7 23.5
 179 15.7 12.4 18.6

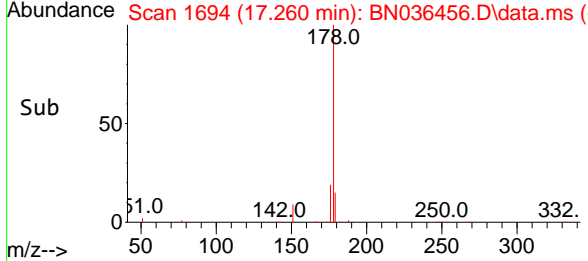
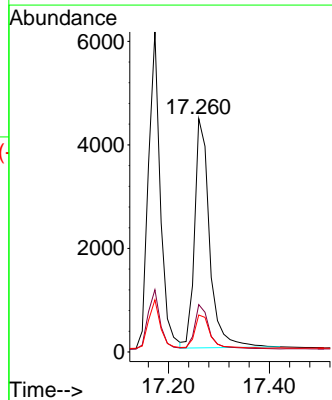
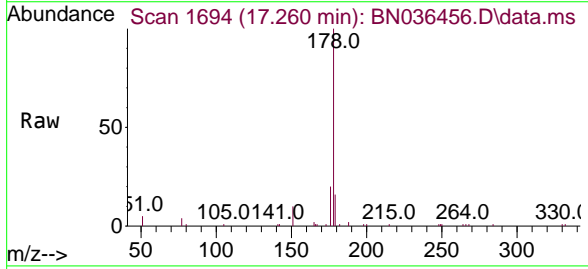
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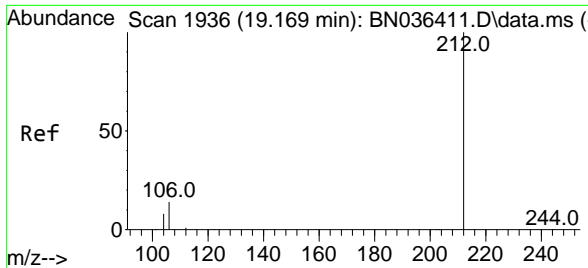
Reviewed By :Anahy Claudio 02/13/2025
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#26
 Anthracene
 Concen: 0.426 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.013 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

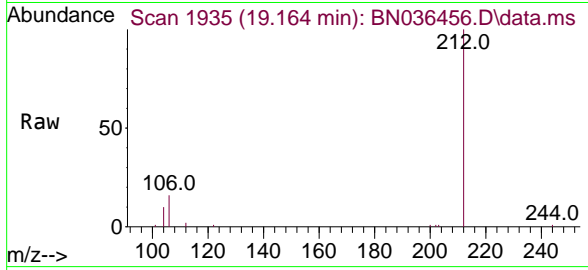
Tgt Ion:178 Resp: 9154
 Ion Ratio Lower Upper
 178 100
 176 19.1 14.9 22.3
 179 15.2 12.4 18.6





#27
 Fluoranthene-d10
 Concen: 0.362 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

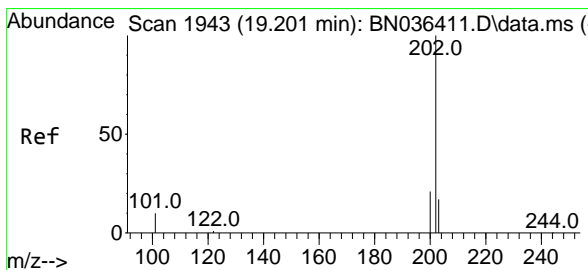
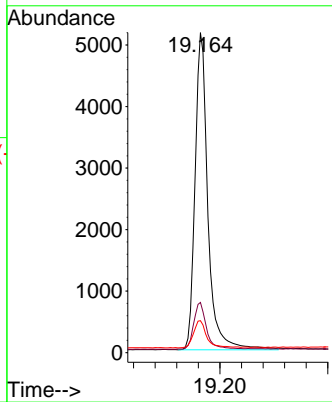
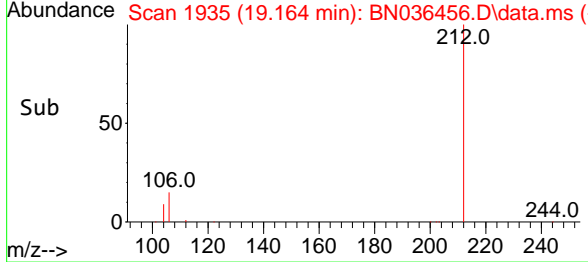
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



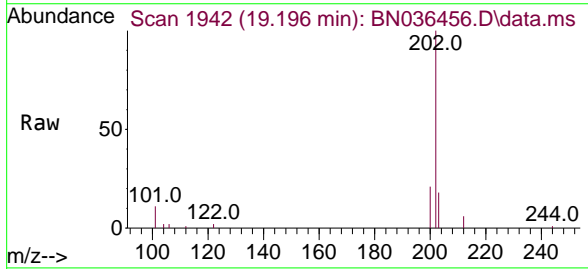
Tgt Ion:212 Resp: 8486
 Ion Ratio Lower Upper
 212 100
 106 14.8 11.5 17.3
 104 8.7 7.1 10.7

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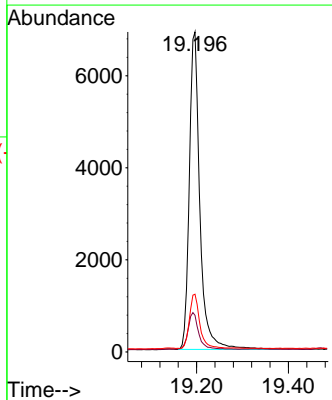
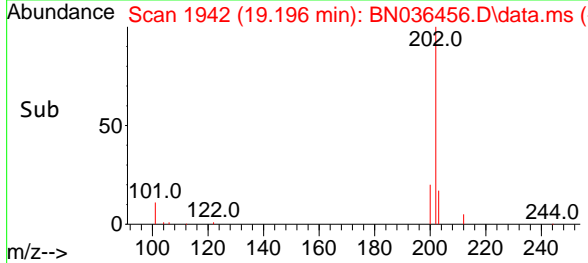
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

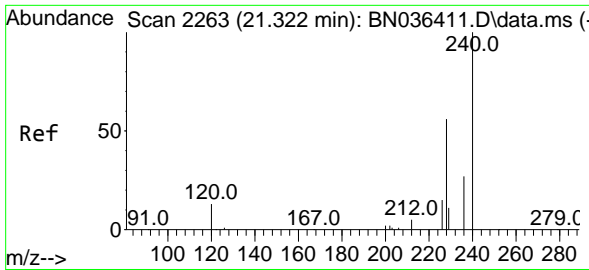


#28
 Fluoranthene
 Concen: 0.367 ng
 RT: 19.196 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



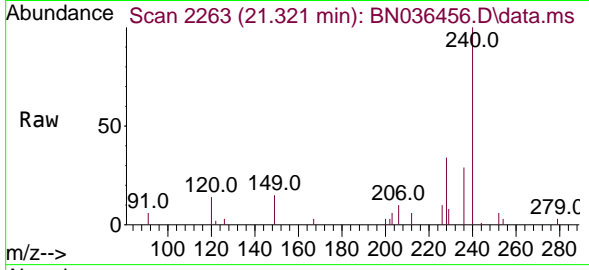
Tgt Ion:202 Resp: 10986
 Ion Ratio Lower Upper
 202 100
 101 12.0 9.2 13.8
 203 16.8 13.4 20.0





#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.321 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 Client Sample Id :
 PB166675BS

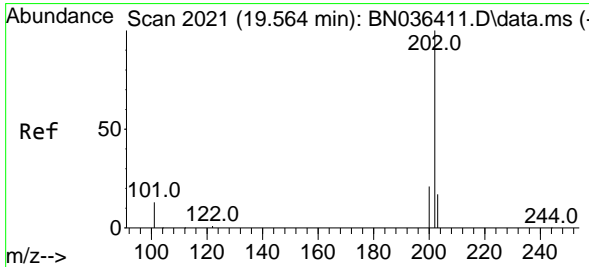
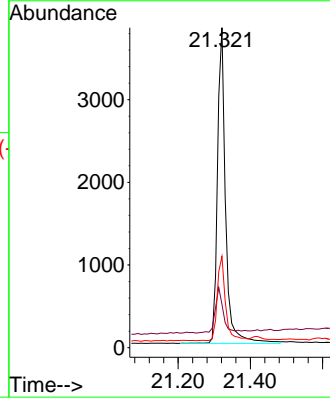
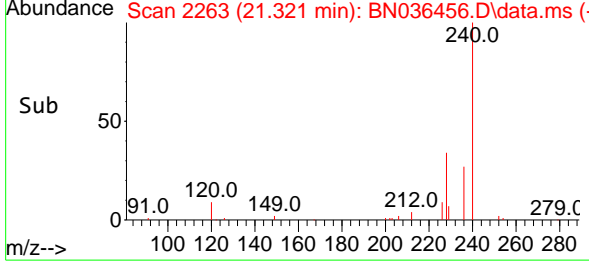


Tgt Ion: 240 Resp: 596

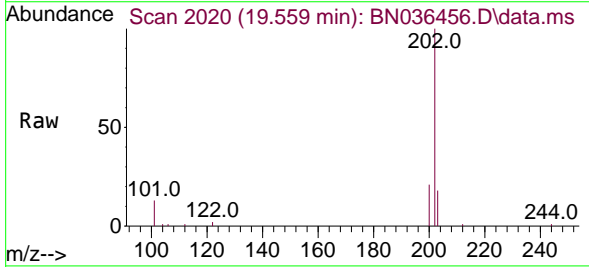
Ion	Ratio	Lower	Upper
240	100		
120	13.5	13.3	19.9
236	28.6	23.0	34.6

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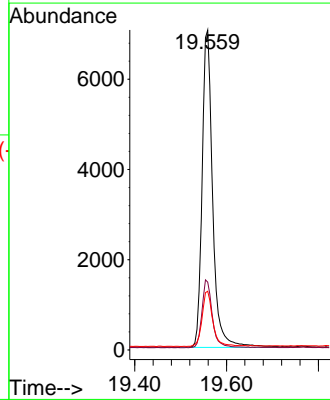
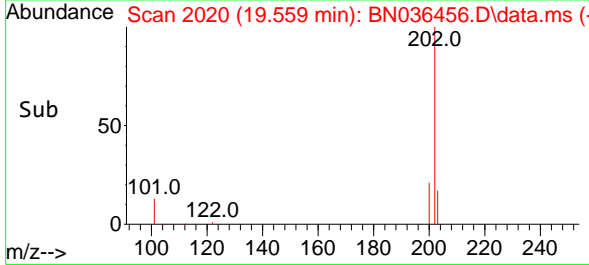


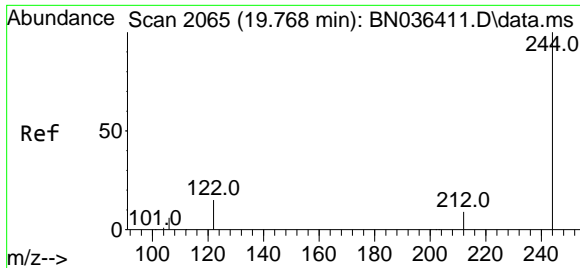
#30
 Pyrene
 Concen: 0.488 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion: 202 Resp: 11216

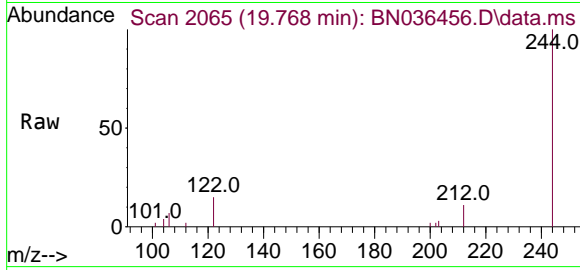
Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9





#31
 Terphenyl-d14
 Concen: 0.458 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 Client Sample Id :
 PB166675BS

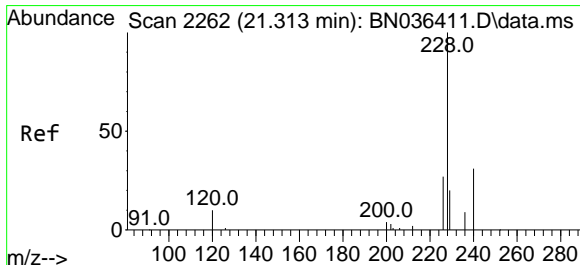
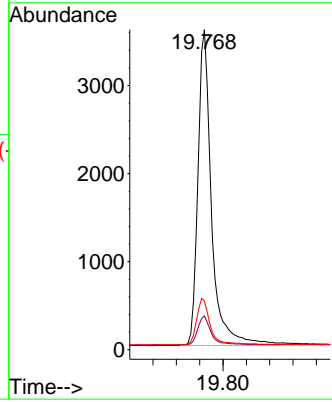
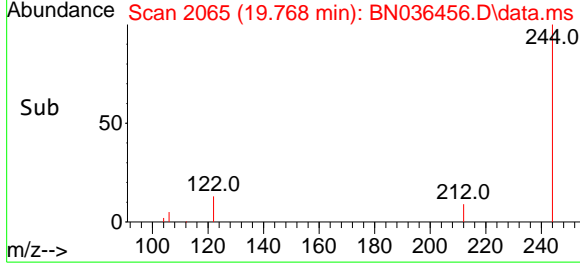


Tgt Ion: 244 Resp: 583

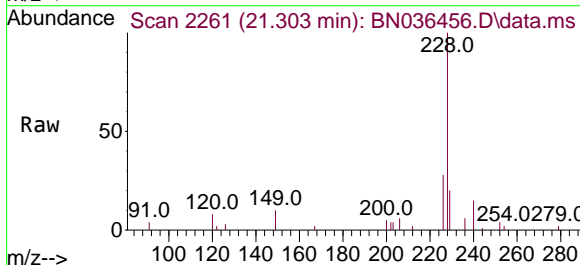
Ion	Ratio	Lower	Upper
244	100		
212	10.6	8.1	12.1
122	15.3	12.8	19.2

Manual Integrations
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 Supervised By :Jagrut Upadhyay 02/13/2025

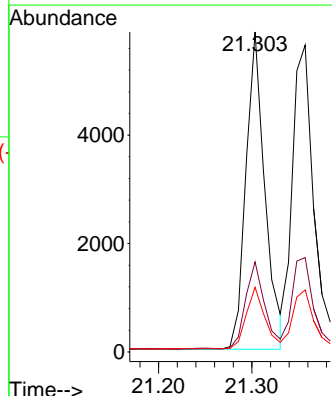
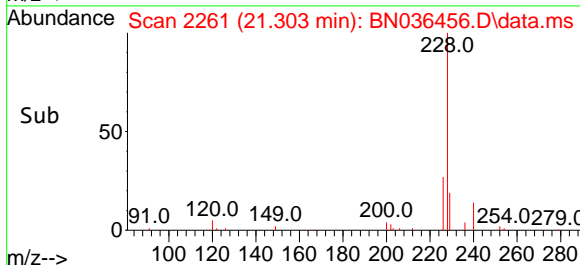


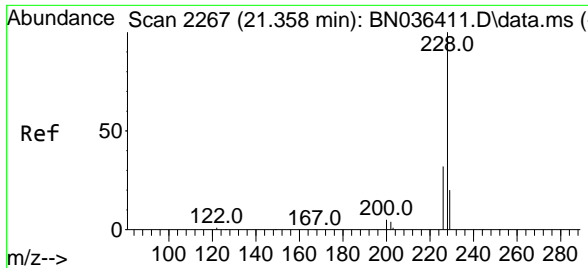
#32
 Benzo(a)anthracene
 Concen: 0.423 ng
 RT: 21.303 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion: 228 Resp: 8299

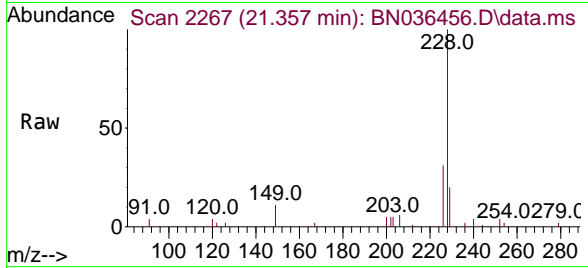
Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.2
229	20.2	16.5	24.7





#33
 Chrysene
 Concen: 0.442 ng
 RT: 21.357 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

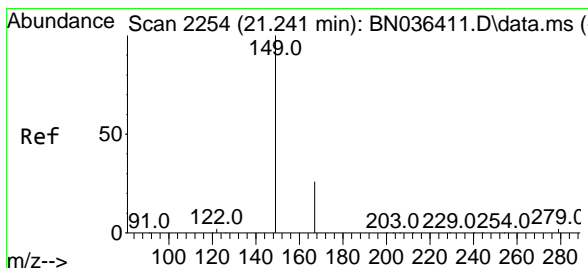
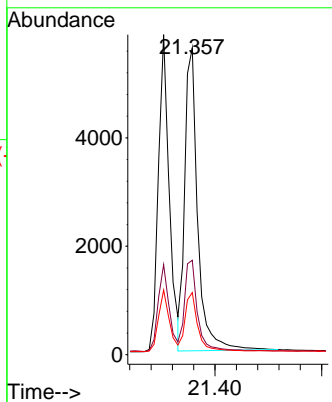
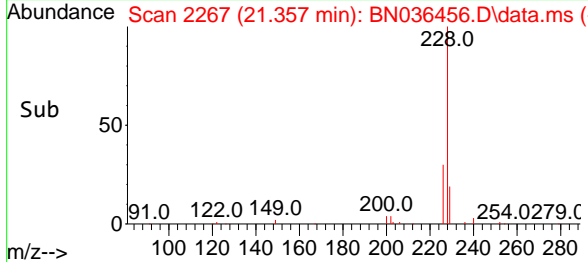


Tgt Ion: 228 Resp: 940

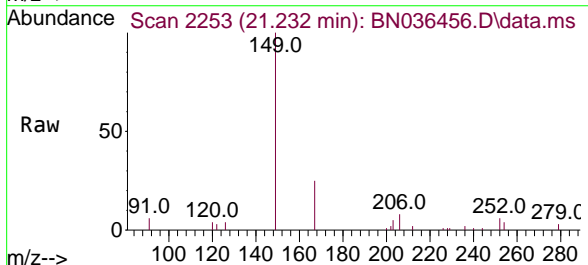
Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.5	38.3
229	20.2	16.4	24.6

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 Supervised By :Jagrut Upadhyay 02/13/2025

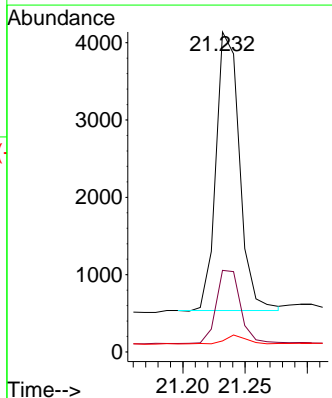
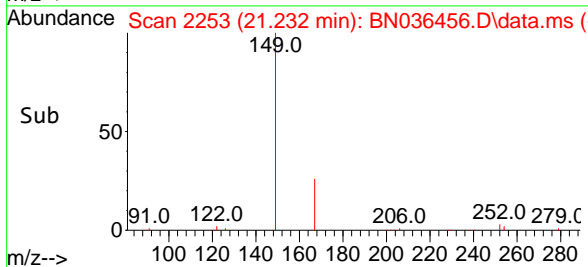


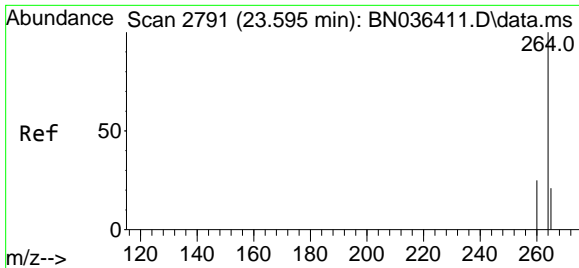
#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.387 ng
 RT: 21.232 min Scan# 2253
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion: 149 Resp: 4731

Ion	Ratio	Lower	Upper
149	100		
167	27.6	21.2	31.8
279	2.9	2.7	4.1





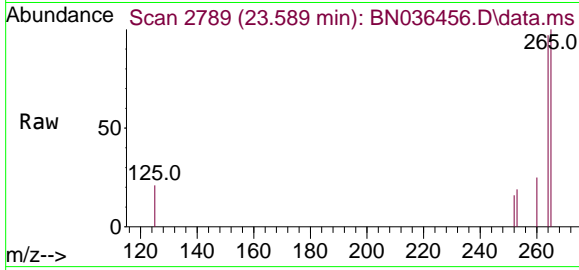
#35
Perylene-d12
 Concen: 0.400 ng
 RT: 23.589 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :

BNA_N

ClientSampleId :

PB166675BS



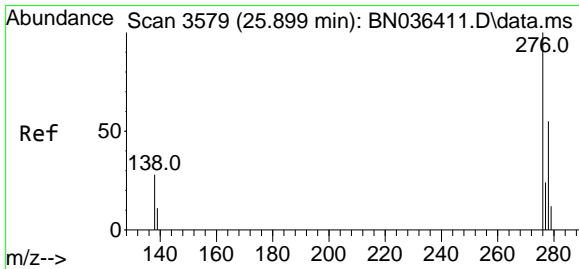
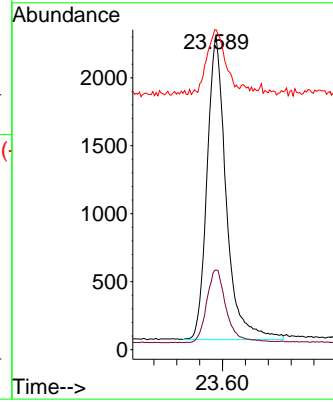
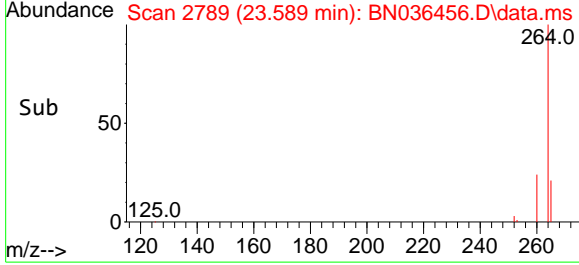
Tgt Ion:264 Resp: 519
 Ion Ratio Lower Upper
 264 100
 260 25.6 20.9 31.3
 265 102.9 60.7 91.1

Manual Integrations

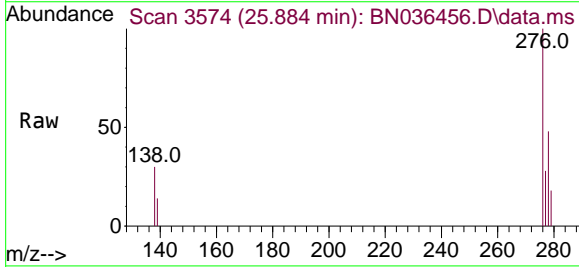
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Reviewed By :Anahy Claudio 02/13/2025

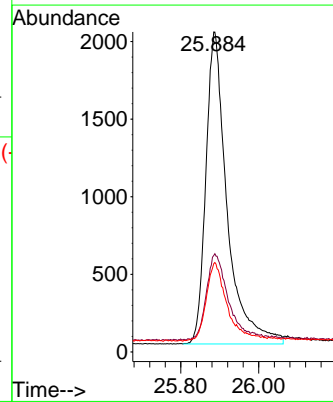
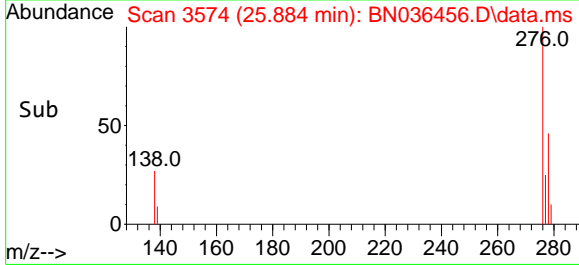
Supervised By :Jagrut Upadhyay 02/13/2025

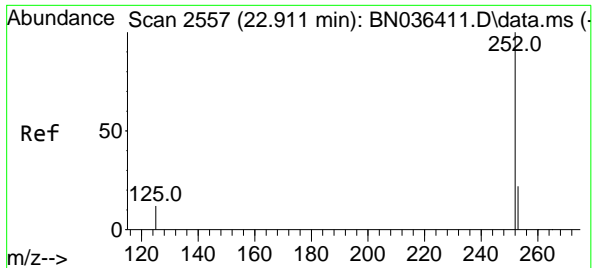


#36
Indeno(1,2,3-cd)pyrene
 Concen: 0.421 ng
 RT: 25.884 min Scan# 3574
 Delta R.T. -0.015 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



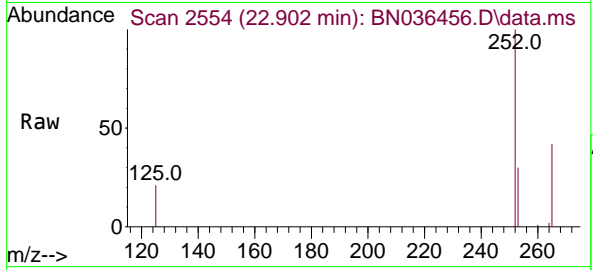
Tgt Ion:276 Resp: 7632
 Ion Ratio Lower Upper
 276 100
 138 27.4 22.2 33.2
 277 24.9 19.8 29.6





#37
 Benzo(b)fluoranthene
 Concen: 0.425 ng
 RT: 22.902 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

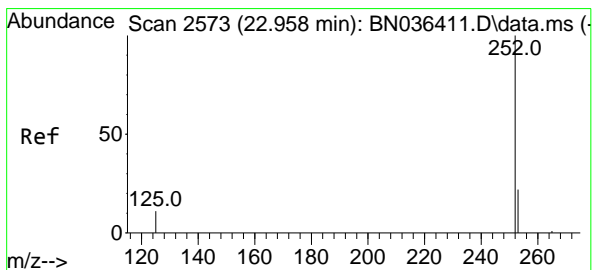
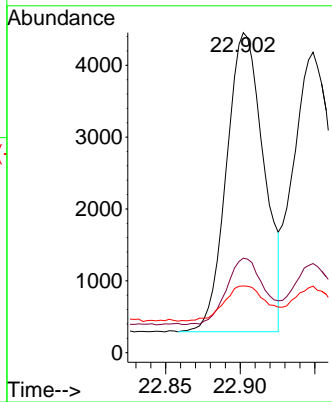
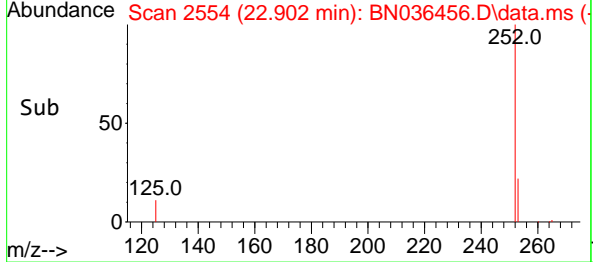
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



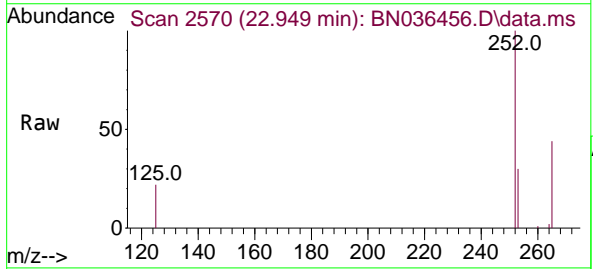
Tgt Ion:252 Resp: 726
 Ion Ratio Lower Upper
 252 100
 253 29.5 21.9 32.9
 125 20.9 15.0 22.6

Manual Integrations
APPROVED

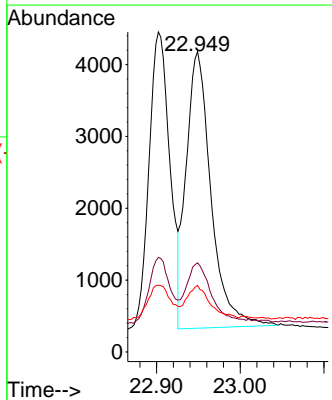
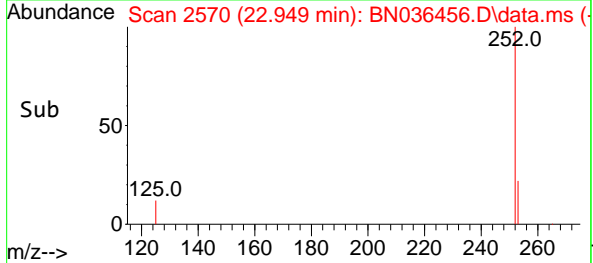
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

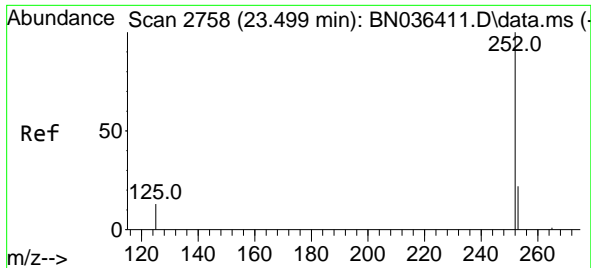


#38
 Benzo(k)fluoranthene
 Concen: 0.452 ng
 RT: 22.949 min Scan# 2570
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



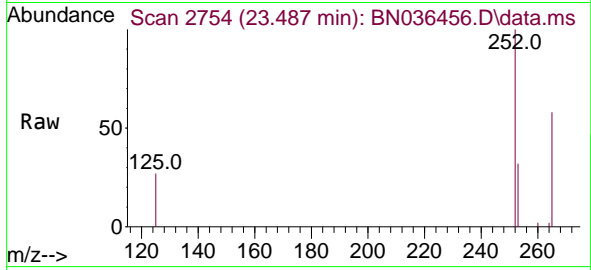
Tgt Ion:252 Resp: 7949
 Ion Ratio Lower Upper
 252 100
 253 29.7 22.2 33.4
 125 22.1 15.0 22.4





#39
 Benzo(a)pyrene
 Concen: 0.469 ng
 RT: 23.487 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

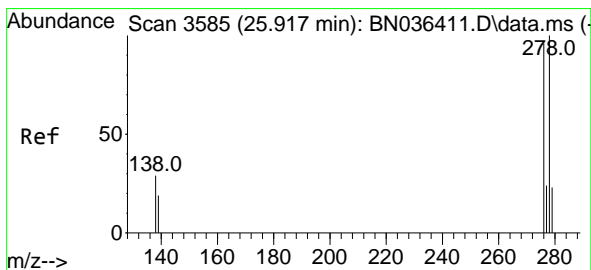
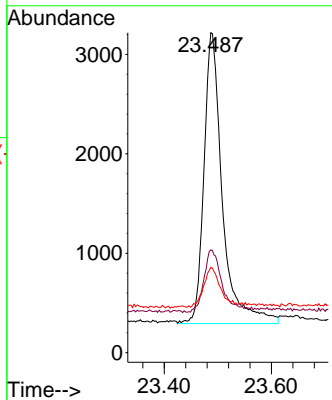
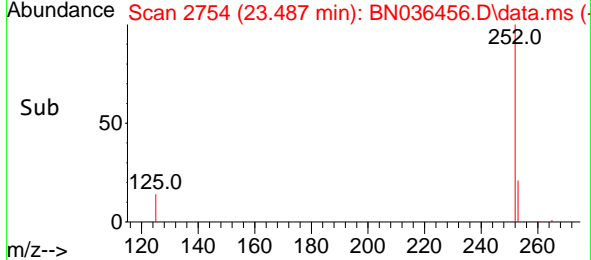
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



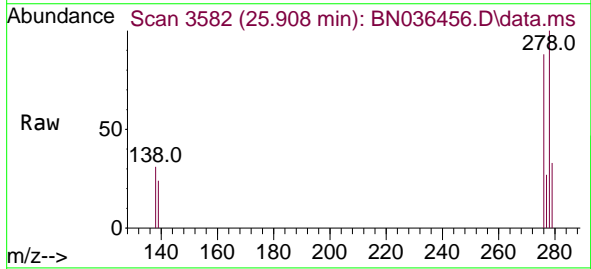
Tgt Ion:252 Resp: 6998
 Ion Ratio Lower Upper
 252 100
 253 32.1 24.4 36.6
 125 26.6 18.2 27.2

Manual Integrations
APPROVED

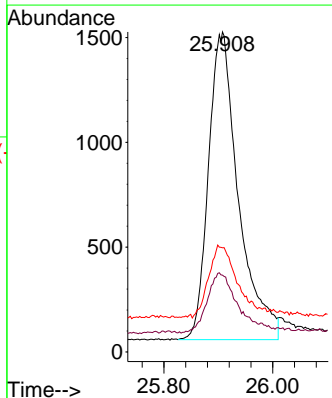
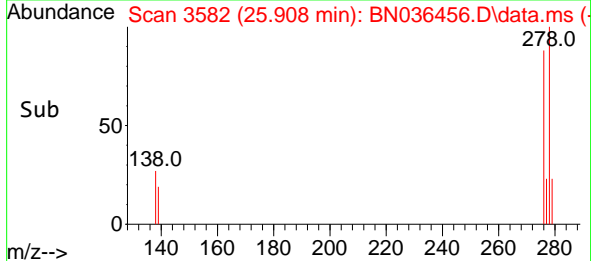
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

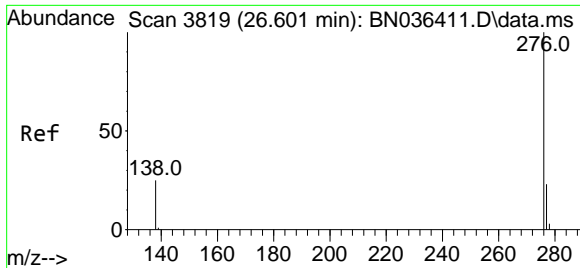


#40
 Dibenzo(a,h)anthracene
 Concen: 0.392 ng
 RT: 25.908 min Scan# 3582
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



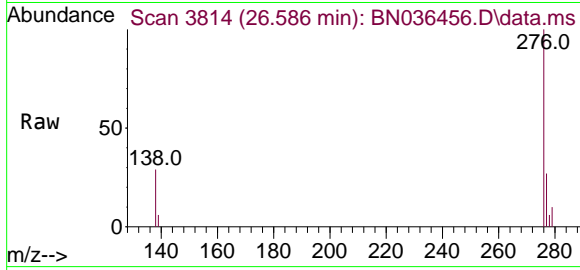
Tgt Ion:278 Resp: 5616
 Ion Ratio Lower Upper
 278 100
 139 24.0 18.5 27.7
 279 32.5 24.8 37.2





#41
 Benzo(g,h,i)perylene
 Concen: 0.376 ng
 RT: 26.586 min Scan# 3814
 Delta R.T. -0.015 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 Client Sample Id :
 PB166675BS

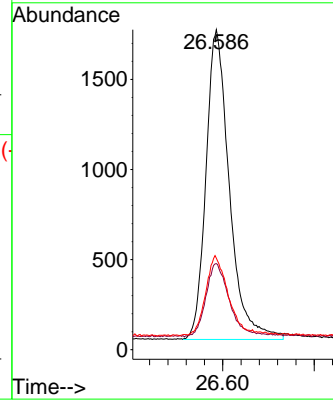
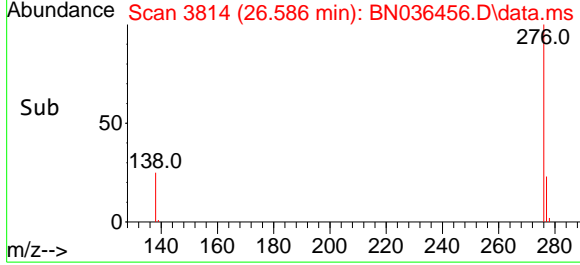


Tgt Ion: 276 Resp: 610

Ion	Ratio	Lower	Upper
276	100		
277	26.9	20.7	31.1
138	28.6	21.8	32.6

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166675BSD	SDG No.:	Q1347
Lab Sample ID:	PB166675BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036455.D	1	02/11/25 11:05	02/13/25 00:11	PB166675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2800	7.753				
1146-65-2	Naphthalene-d8	6950	10.541				
15067-26-2	Acenaphthene-d10	4240	14.387				
1517-22-2	Phenanthrene-d10	9430	17.136				
1719-03-5	Chrysene-d12	6680	21.322				
1520-96-3	Perylene-d12	5830	23.589				

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\BN021225\
 Data File : BN036455.D
 Acq On : 13 Feb 2025 00:11
 Operator : RC/JU
 Sample : PB166675BSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB166675BSD

Manual Integrations**APPROVED**

Reviewed By :Anahy Claudio 02/13/2025

Supervised By :Jagrut Upadhyay 02/13/2025

Quant Time: Feb 13 00:42:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2803	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6953	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.387	164	4239	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	9433	0.400	ng	# 0.00	
29) Chrysene-d12	21.322	240	6681	0.400	ng	0.00	
35) Perylene-d12	23.589	264	5828	0.400	ng	# 0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	2615	0.395	ng	0.00	
5) Phenol-d6	6.930	99	2982	0.384	ng	0.00	
8) Nitrobenzene-d5	8.897	82	2342	0.341	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	4140m	0.387	ng	-0.01	
14) 2,4,6-Tribromophenol	15.882	330	658	0.313	ng	0.00	
15) 2-Fluorobiphenyl	13.008	172	6074	0.381	ng	-0.01	
27) Fluoranthene-d10	19.164	212	8652	0.330	ng	0.00	
31) Terphenyl-d14	19.768	244	5925	0.415	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	922	0.301	ng	# 69	Qvalue
3) n-Nitrosodimethylamine	3.572	42	1831	0.344	ng	93	
6) bis(2-Chloroethyl)ether	7.175	93	2923	0.360	ng	99	
9) Naphthalene	10.584	128	7093	0.354	ng	100	
10) Hexachlorobutadiene	10.882	225	1695	0.347	ng	# 100	
12) 2-Methylnaphthalene	12.207	142	4591	0.349	ng	99	
16) Acenaphthylene	14.110	152	7183	0.384	ng	99	
17) Acenaphthene	14.452	154	4578	0.366	ng	99	
18) Fluorene	15.435	166	6496	0.365	ng	100	
20) 4,6-Dinitro-2-methylph...	15.522	198	572	0.309	ng	85	
21) 4-Bromophenyl-phenylether	16.329	248	1996	0.355	ng	# 85	
22) Hexachlorobenzene	16.441	284	2519	0.362	ng	98	
23) Atrazine	16.602	200	1659	0.353	ng	94	
24) Pentachlorophenol	16.788	266	1375	0.417	ng	99	
25) Phenanthrene	17.173	178	10071	0.369	ng	100	
26) Anthracene	17.260	178	9213	0.383	ng	100	
28) Fluoranthene	19.197	202	11075	0.331	ng	100	
30) Pyrene	19.559	202	11367	0.442	ng	99	
32) Benzo(a)anthracene	21.304	228	8431	0.383	ng	99	
33) Chrysene	21.357	228	9478	0.398	ng	98	
34) Bis(2-ethylhexyl)phtha...	21.232	149	5132	0.375	ng	99	
36) Indeno(1,2,3-cd)pyrene	25.884	276	7446	0.366	ng	98	
37) Benzo(b)fluoranthene	22.902	252	7169	0.374	ng	# 93	
38) Benzo(k)fluoranthene	22.949	252	8031	0.407	ng	# 93	
39) Benzo(a)pyrene	23.490	252	6762	0.404	ng	# 94	
40) Dibenzo(a,h)anthracene	25.905	278	5905	0.367	ng	97	
41) Benzo(g,h,i)perylene	26.580	276	6109m	0.335	ng		

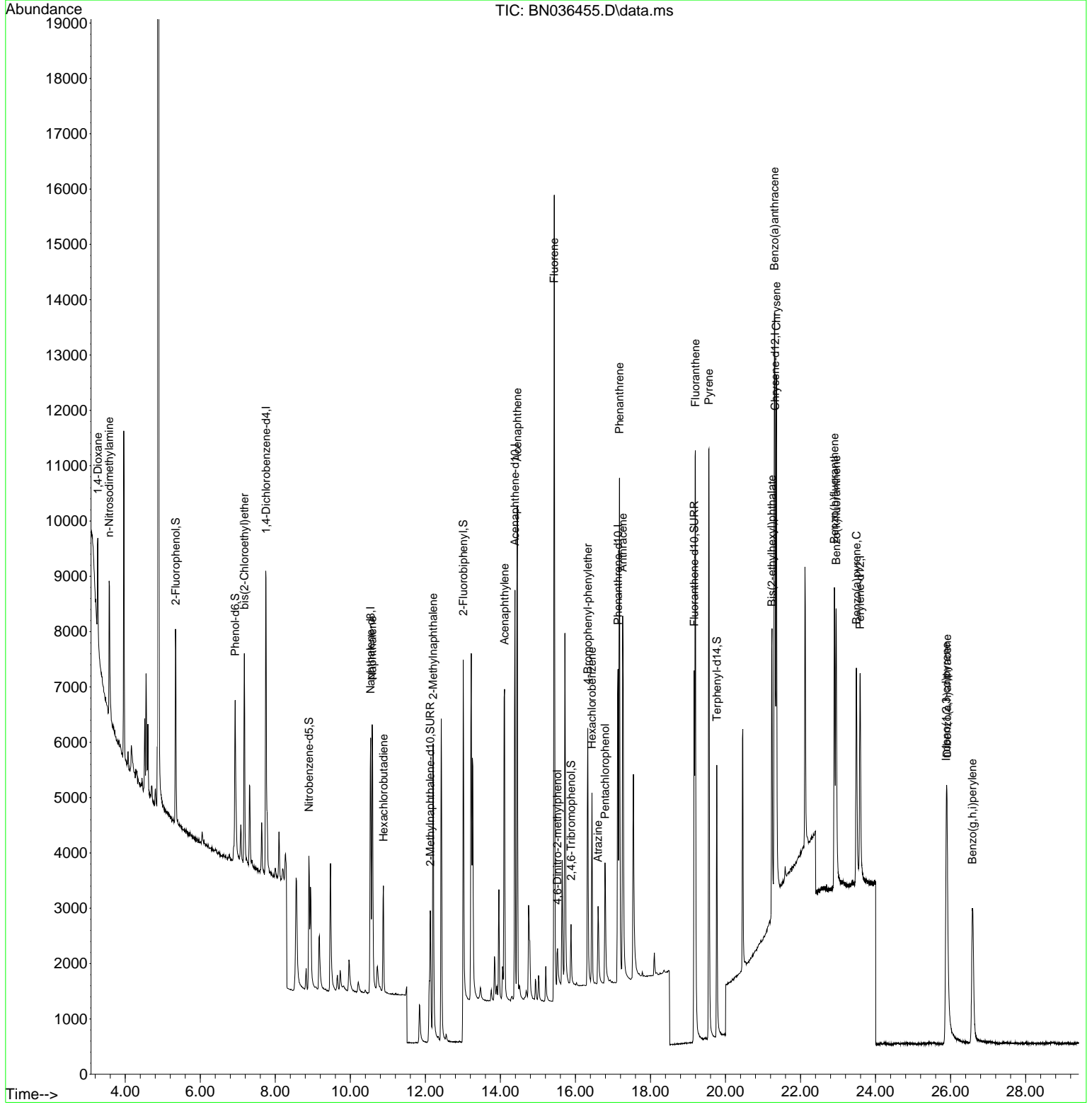
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036455.D
 Acq On : 13 Feb 2025 00:11
 Operator : RC/JU
 Sample : PB166675BSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

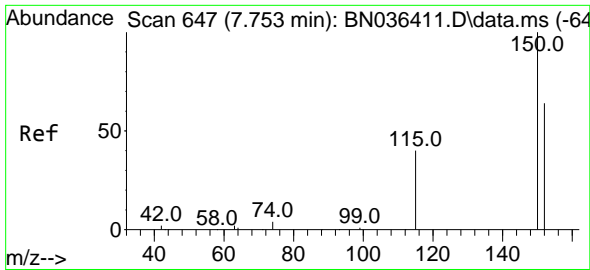
Instrument :
 BNA_N
ClientSampleId :
 PB166675BSD

Quant Time: Feb 13 00:42:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED
 Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

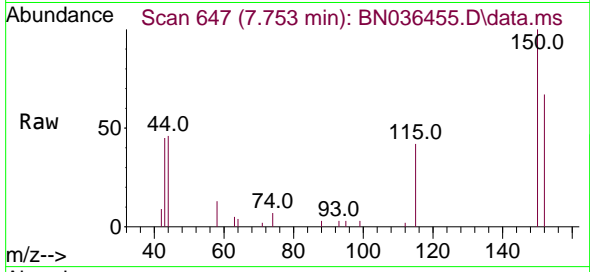


- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18



#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

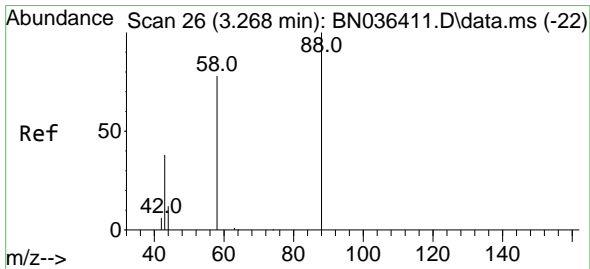
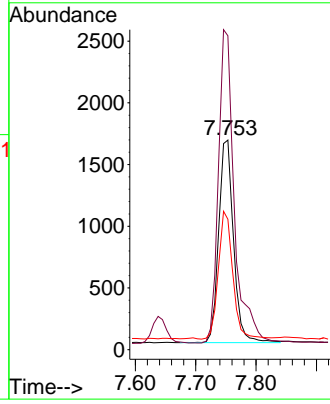
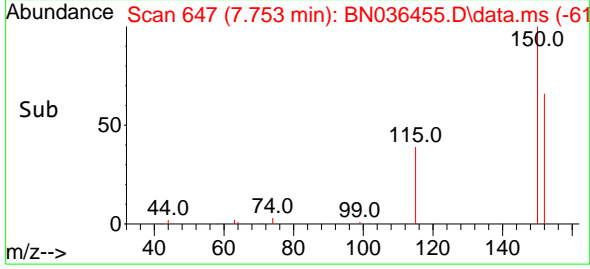
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



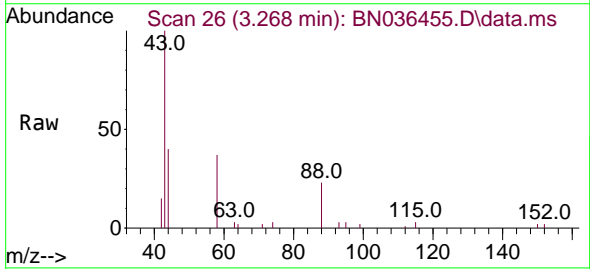
Tgt Ion: 152 Resp: 280
 Ion Ratio Lower Upper
 152 100
 150 149.7 123.7 185.5
 115 62.2 52.5 78.7

Manual Integrations
APPROVED

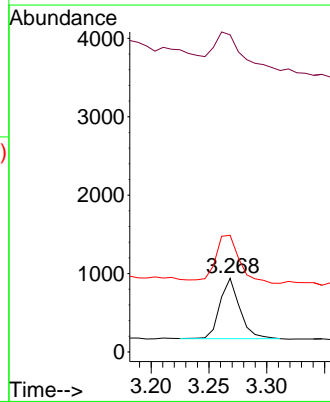
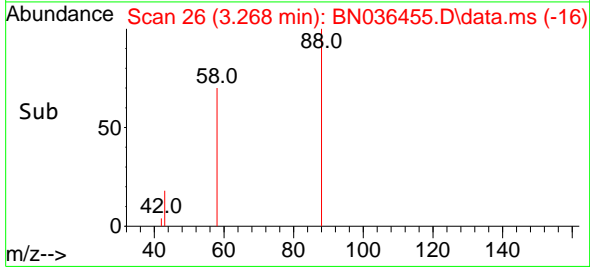
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

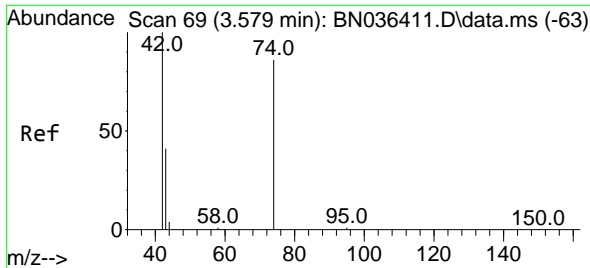


#2
 1,4-Dioxane
 Concen: 0.301 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 88 Resp: 922
 Ion Ratio Lower Upper
 88 100
 43 85.4 33.7 50.5#
 58 97.2 68.9 103.3





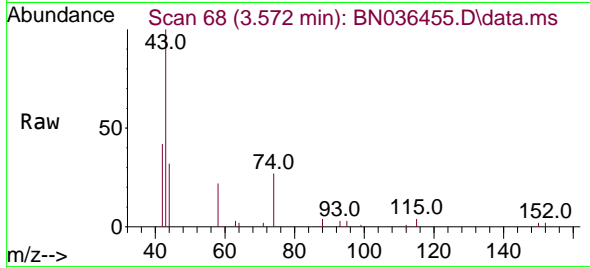
#3
 n-Nitrosodimethylamine
 Concen: 0.344 ng
 RT: 3.572 min Scan# 68
 Delta R.T. -0.007 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :

BNA_N

ClientSampleId :

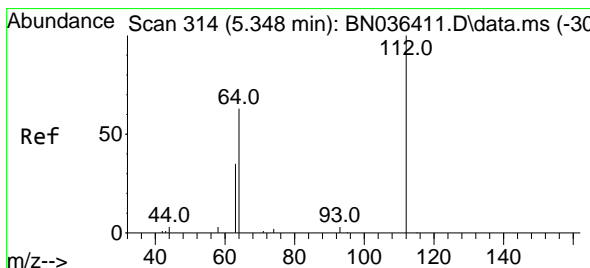
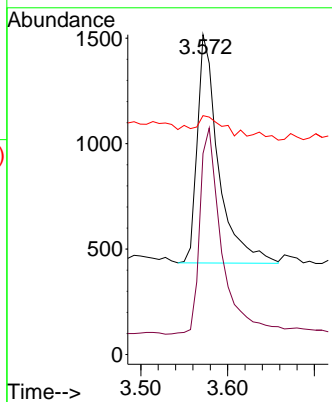
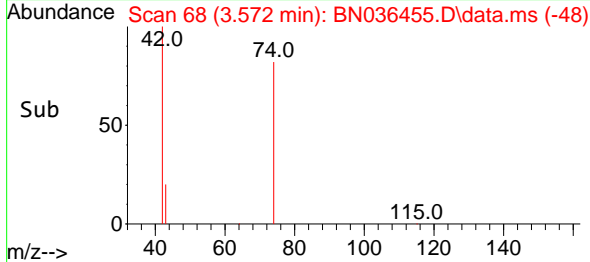
PB166675BSD



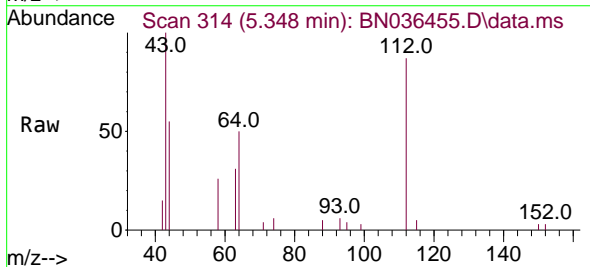
Tgt Ion: 42 Resp: 183
 Ion Ratio Lower Upper
 42 100
 74 97.2 71.8 107.6
 44 8.5 7.8 11.6

Manual Integrations
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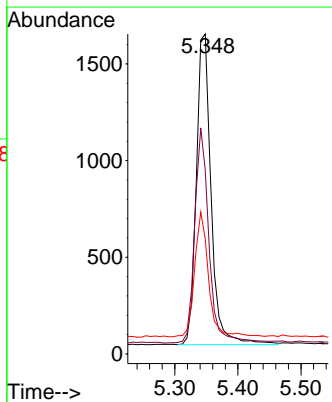
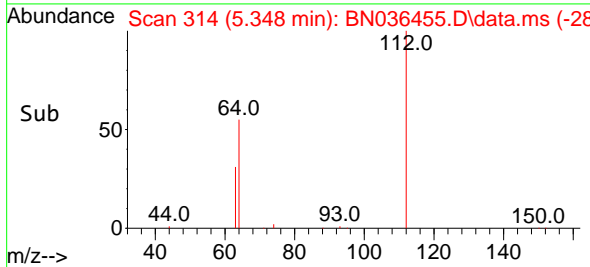
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

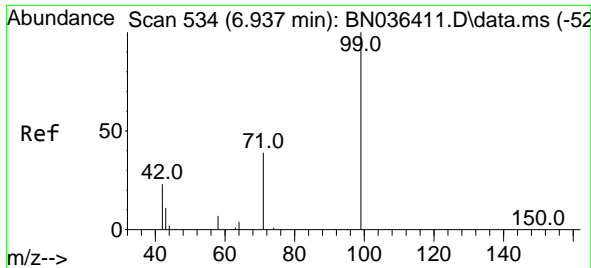


#4
 2-Fluorophenol
 Concen: 0.395 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



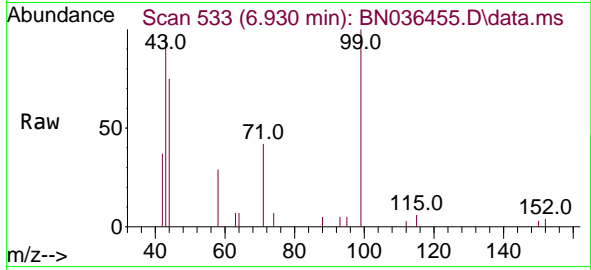
Tgt Ion:112 Resp: 2615
 Ion Ratio Lower Upper
 112 100
 64 66.7 53.4 80.0
 63 38.0 30.3 45.5





#5
 Phenol-d6
 Concen: 0.384 ng
 RT: 6.930 min Scan# 511
 Delta R.T. -0.007 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

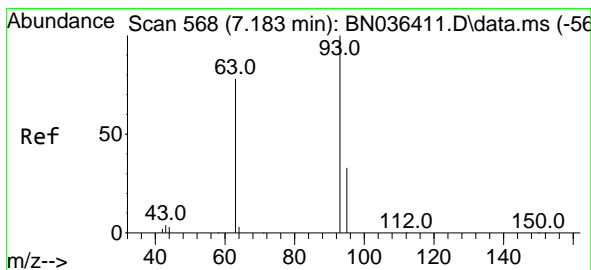
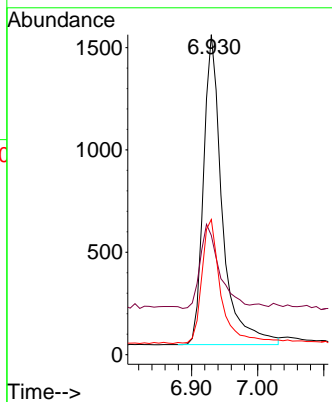
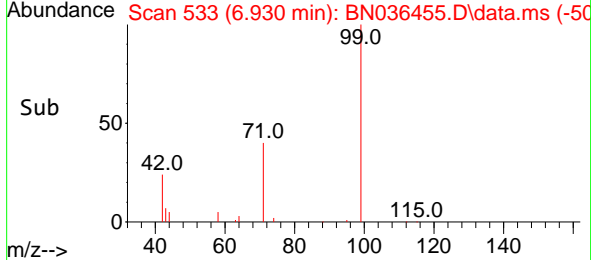


Tgt Ion: 99 Resp: 298

Ion	Ratio	Lower	Upper
99	100		
42	27.9	21.7	32.5
71	42.4	32.6	49.0

Manual Integrations
APPROVED

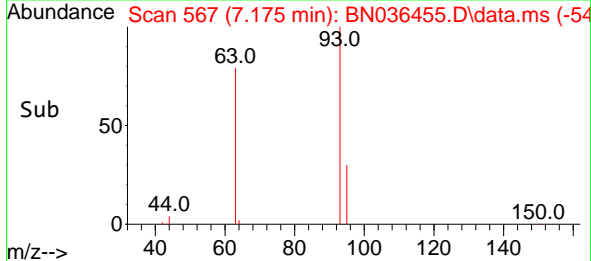
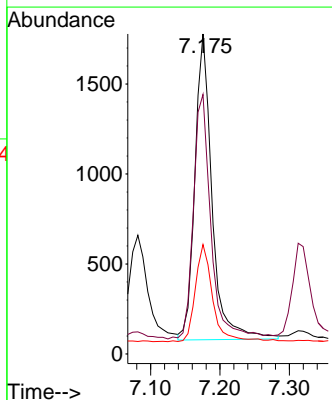
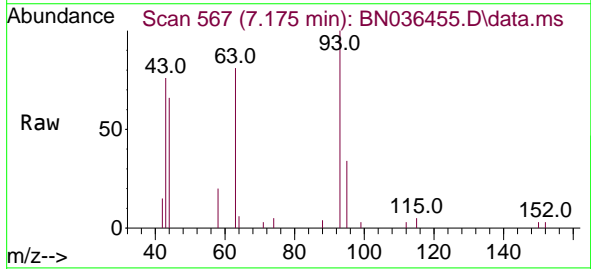
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

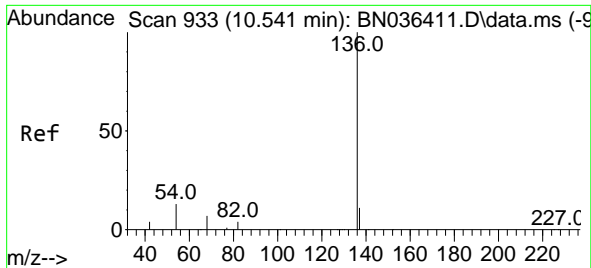


#6
 bis(2-Chloroethyl)ether
 Concen: 0.360 ng
 RT: 7.175 min Scan# 567
 Delta R.T. -0.007 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion: 93 Resp: 2923

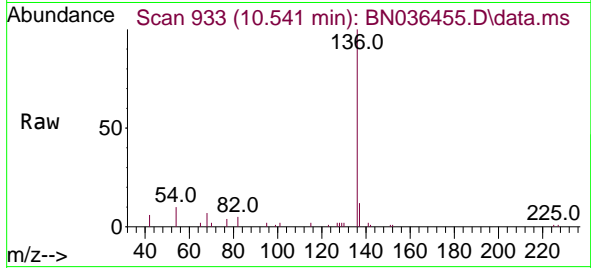
Ion	Ratio	Lower	Upper
93	100		
63	82.1	66.3	99.5
95	32.0	26.2	39.4





#7
Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
ClientSampleId :
 PB166675BSD

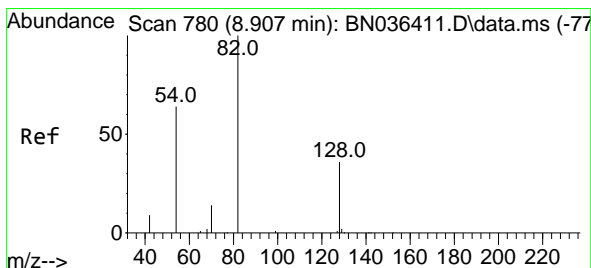
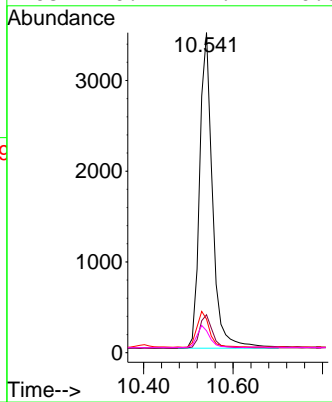
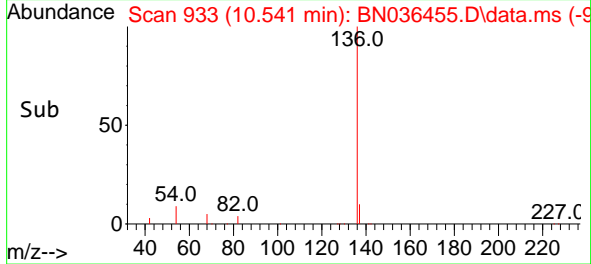


Tgt Ion: 136 Resp: 695

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	10.5	11.8	17.6
68	6.9	7.2	10.8

Manual Integrations
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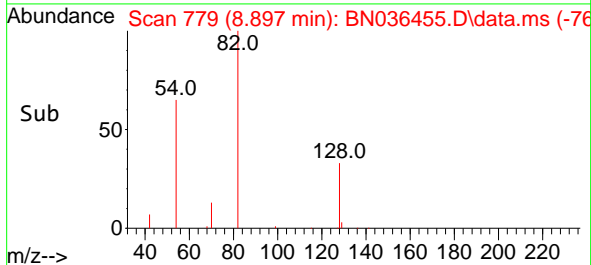
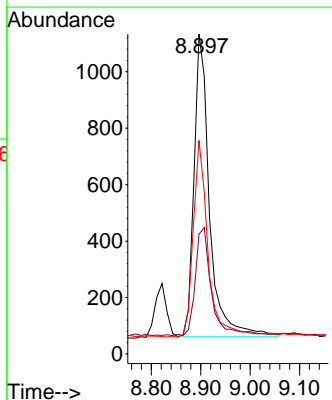
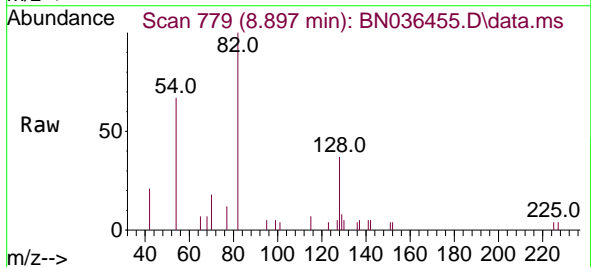
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

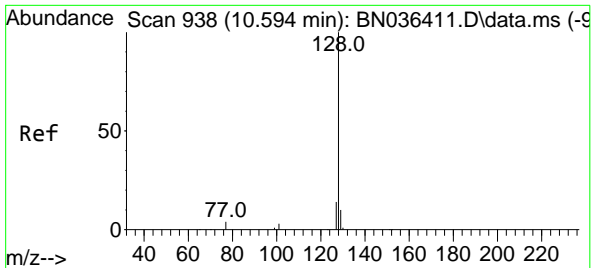


#8
Nitrobenzene-d5
 Concen: 0.341 ng
 RT: 8.897 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion: 82 Resp: 2342

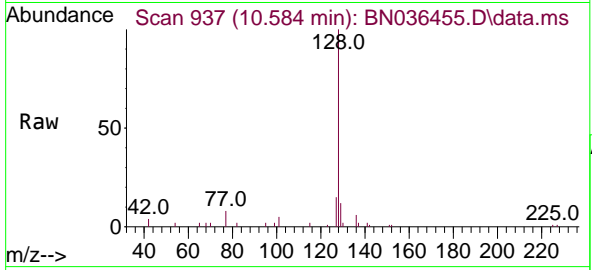
Ion	Ratio	Lower	Upper
82	100		
128	37.4	31.9	47.9
54	66.8	53.1	79.7





#9
Naphthalene
 Concen: 0.354 ng
 RT: 10.584 min Scan# 911
 Delta R.T. -0.011 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

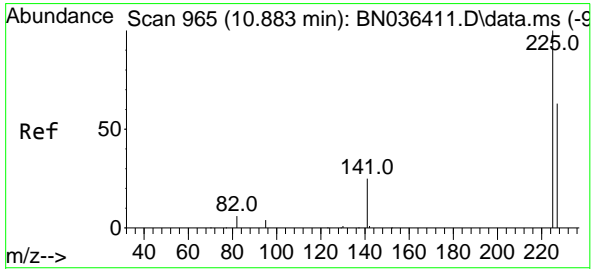
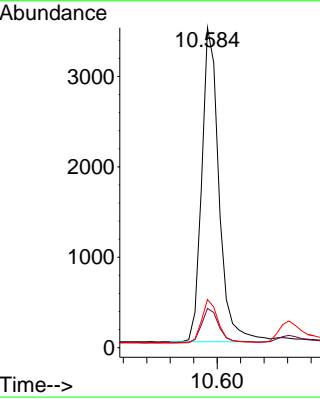
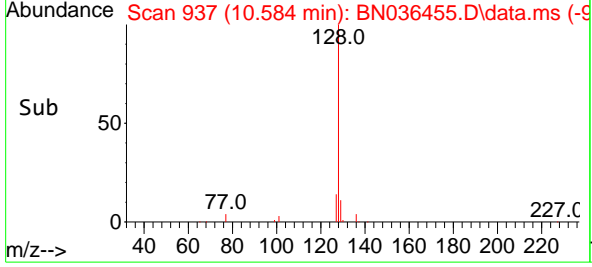
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



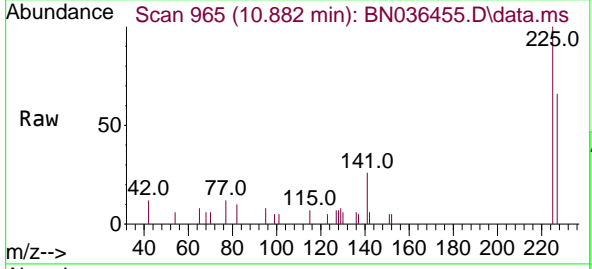
Tgt Ion:128 Resp: 709

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.6	14.4
127	15.1	12.0	18.0

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 Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

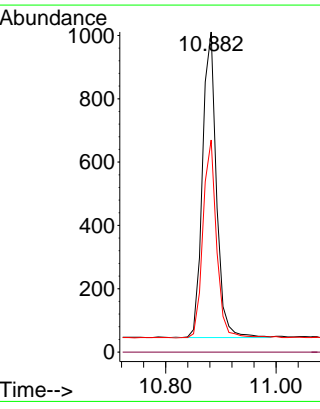
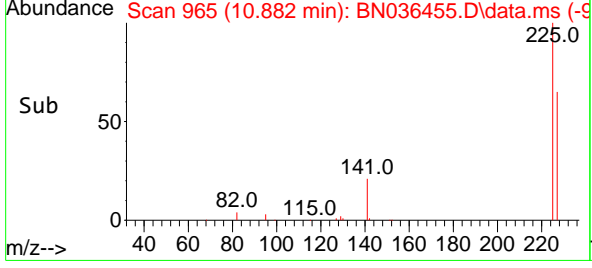


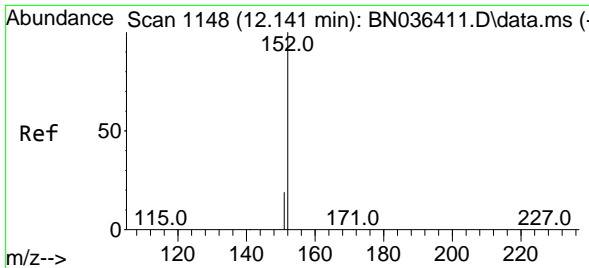
#10
Hexachlorobutadiene
 Concen: 0.347 ng
 RT: 10.882 min Scan# 965
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion:225 Resp: 1695

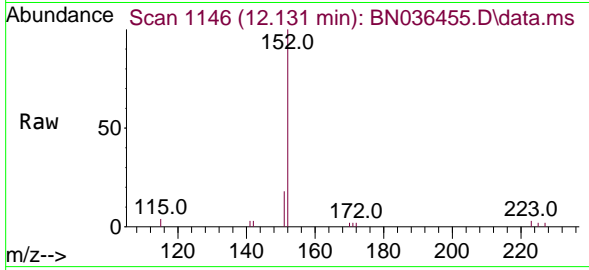
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.9	76.3





#11
 2-Methylnaphthalene-d10
 Concen: 0.387 ng m
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

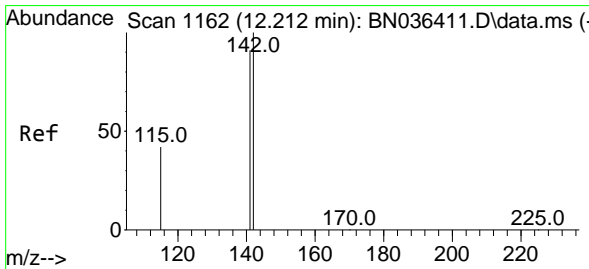
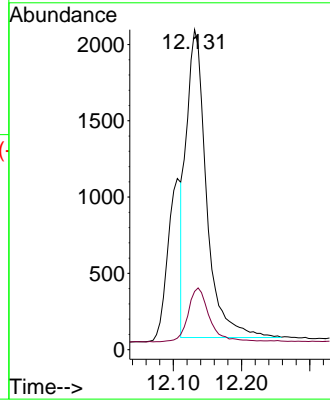
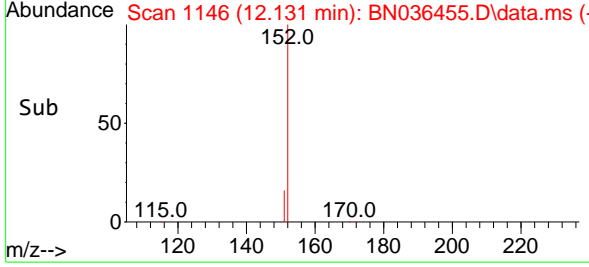
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



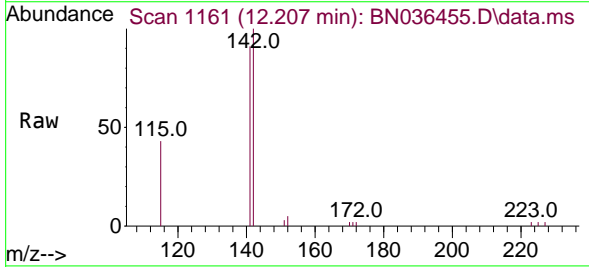
Tgt Ion:152 Resp: 4140
 Ion Ratio Lower Upper
 152 100
 151 18.8 16.6 25.0

Manual Integrations
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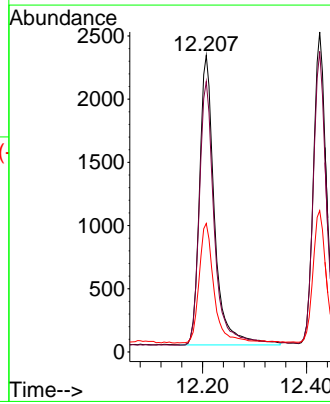
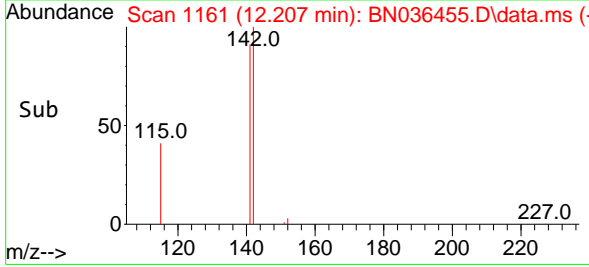
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

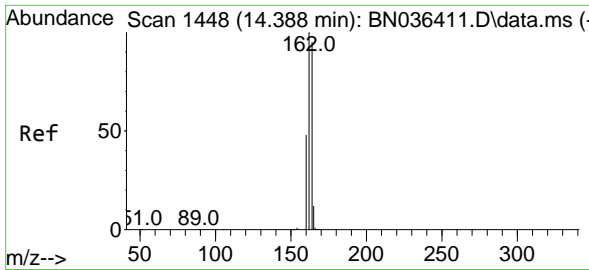


#12
 2-Methylnaphthalene
 Concen: 0.349 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion:142 Resp: 4591
 Ion Ratio Lower Upper
 142 100
 141 91.2 72.8 109.2
 115 43.3 35.5 53.3





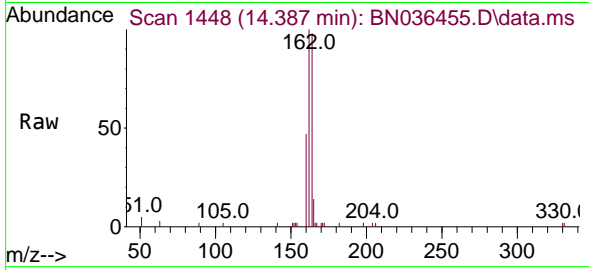
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 1448
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :

BNA_N

ClientSampleId :

PB166675BSD



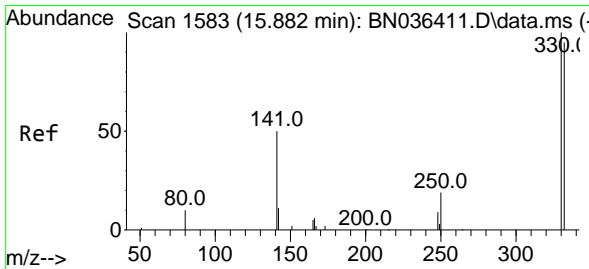
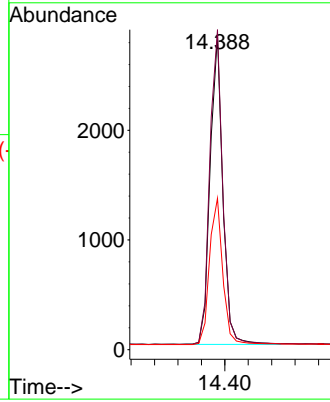
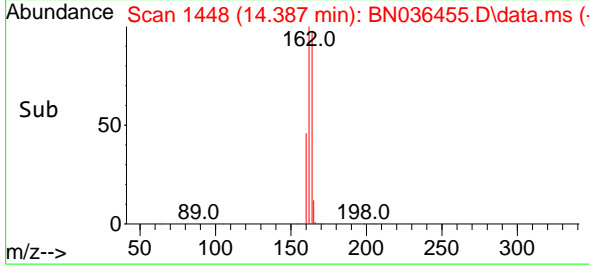
Tgt Ion:164 Resp: 4239
 Ion Ratio Lower Upper
 164 100
 162 101.8 84.1 126.1
 160 48.2 41.4 62.0

Manual Integrations

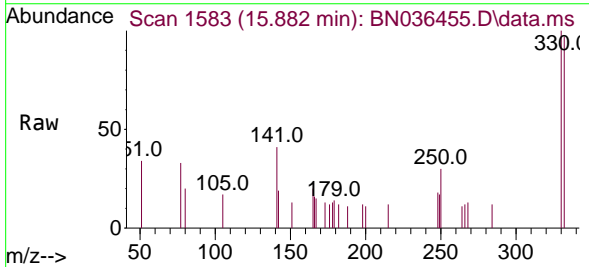
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Reviewed By :Anahy Claudio 02/13/2025

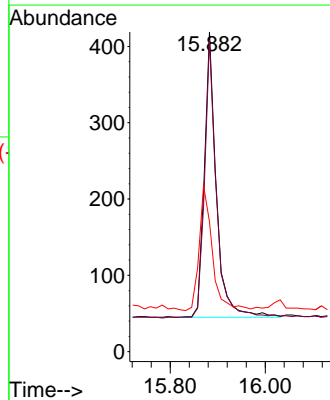
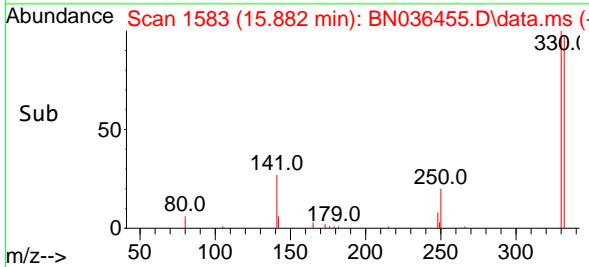
Supervised By :Jagrut Upadhyay 02/13/2025

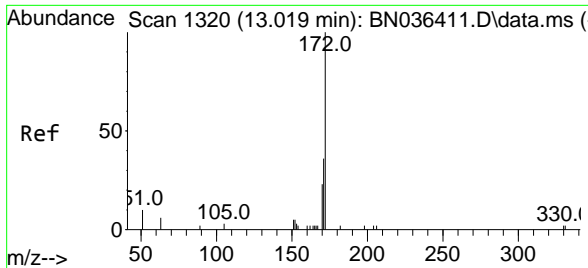


#14
 2,4,6-Tribromophenol
 Concen: 0.313 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion:330 Resp: 658
 Ion Ratio Lower Upper
 330 100
 332 95.1 76.6 114.8
 141 47.7 37.8 56.8





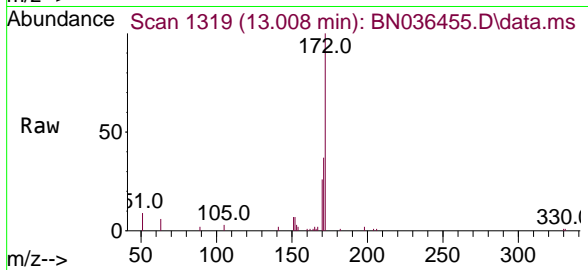
#15
 2-Fluorobiphenyl
 Concen: 0.381 ng
 RT: 13.008 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :

BNA_N

ClientSampleId :

PB166675BSD



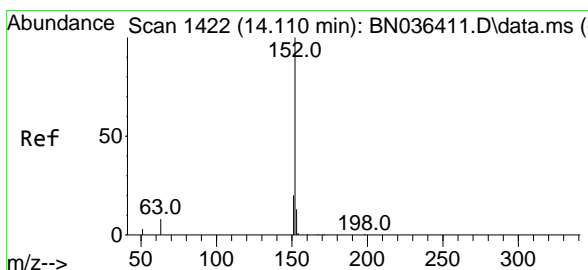
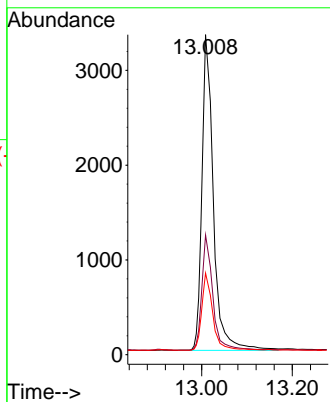
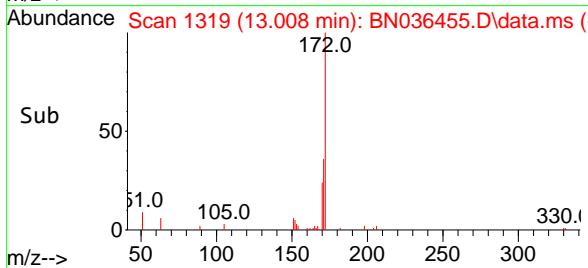
Tgt Ion:172 Resp: 6074
 Ion Ratio Lower Upper
 172 100
 171 37.4 29.6 44.4
 170 25.5 19.8 29.6

Manual Integrations

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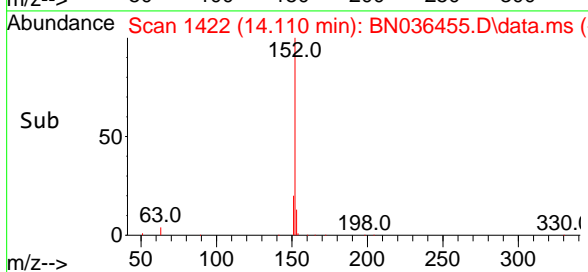
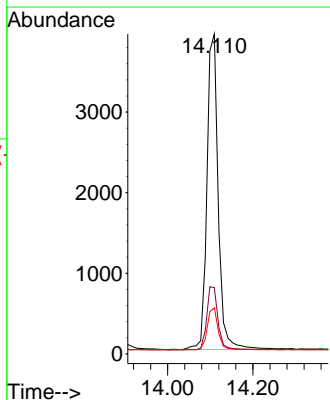
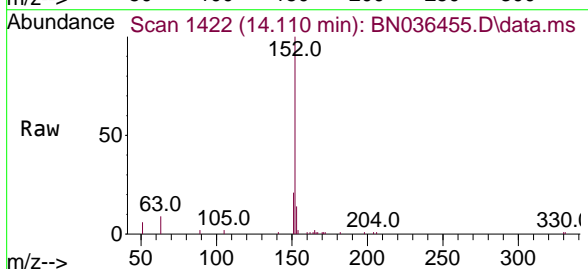
Reviewed By :Anahy Claudio 02/13/2025

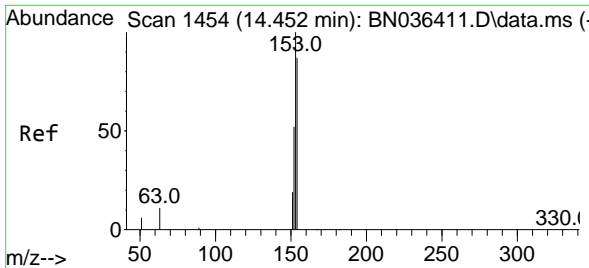
Supervised By :Jagrut Upadhyay 02/13/2025



#16
 Acenaphthylene
 Concen: 0.384 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion:152 Resp: 7183
 Ion Ratio Lower Upper
 152 100
 151 20.5 15.8 23.8
 153 12.8 10.2 15.2





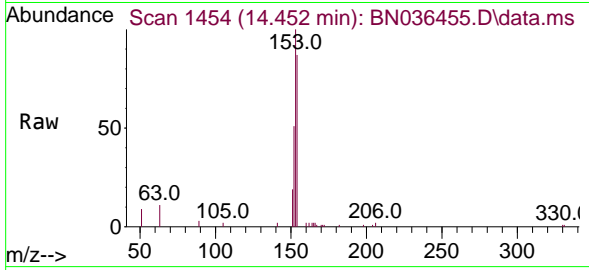
#17
 Acenaphthene
 Concen: 0.366 ng
 RT: 14.452 min Scan# 1454
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :

BNA_N

ClientSampleId :

PB166675BSD



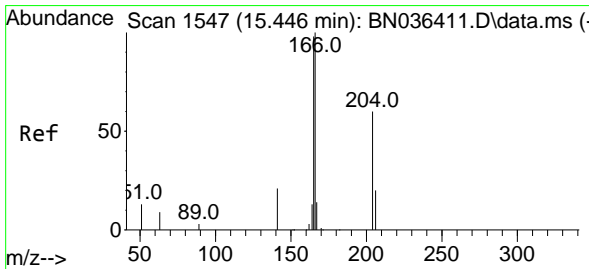
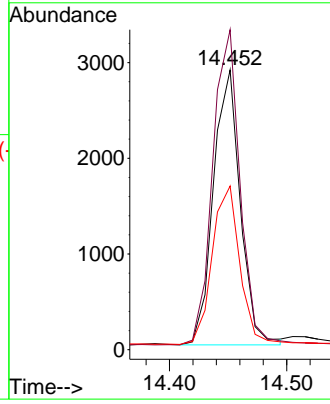
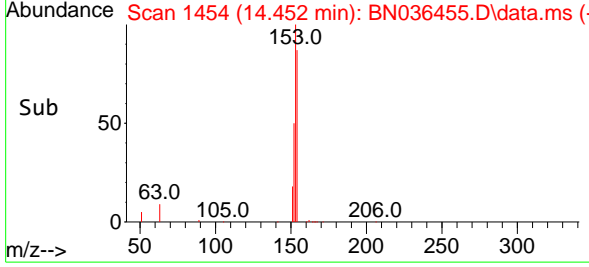
Tgt Ion:154 Resp: 4578
 Ion Ratio Lower Upper
 154 100
 153 117.5 93.3 139.9
 152 59.7 48.8 73.2

Manual Integrations

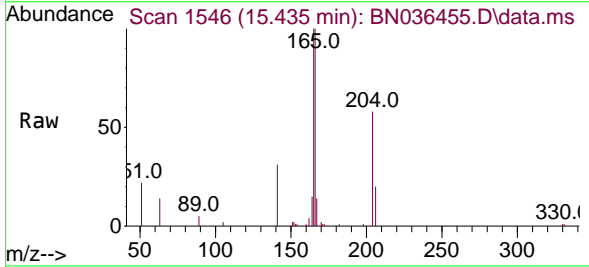
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Reviewed By :Anahy Claudio 02/13/2025

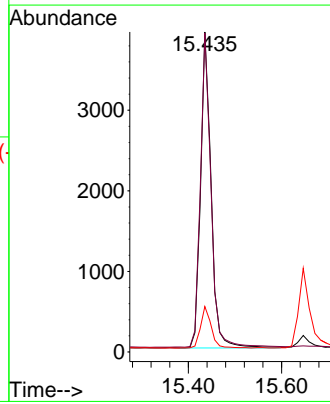
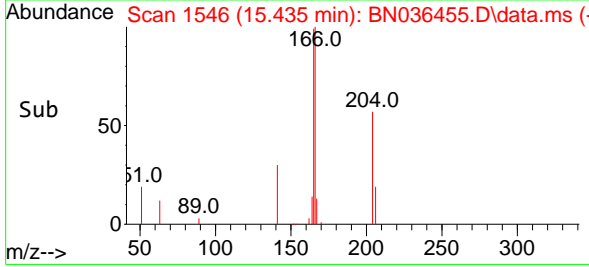
Supervised By :Jagrut Upadhyay 02/13/2025

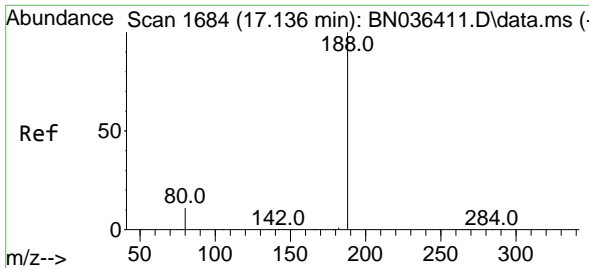


#18
 Fluorene
 Concen: 0.365 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion:166 Resp: 6496
 Ion Ratio Lower Upper
 166 100
 165 99.2 79.5 119.3
 167 13.1 10.4 15.6





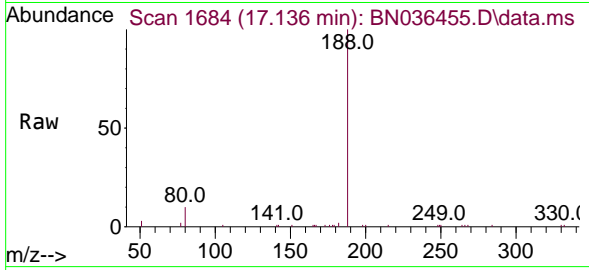
#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 10
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :

BNA_N

ClientSampleId :

PB166675BSD



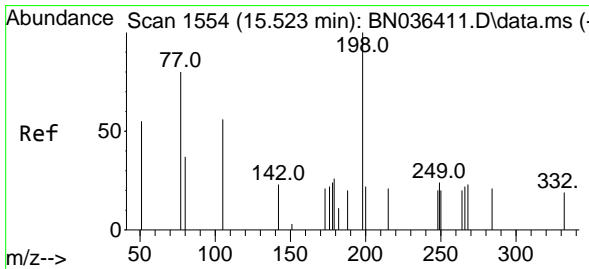
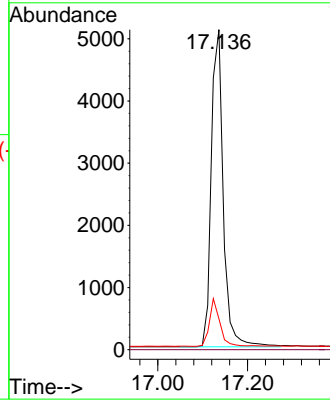
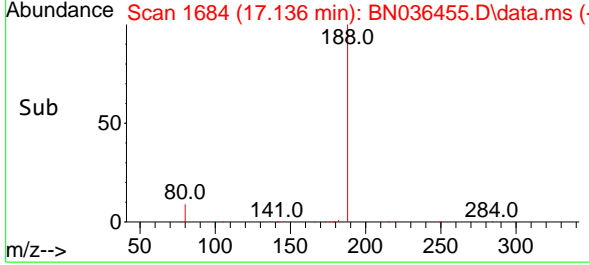
Tgt Ion:188 Resp: 943
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 9.6 9.8 14.6

Manual Integrations

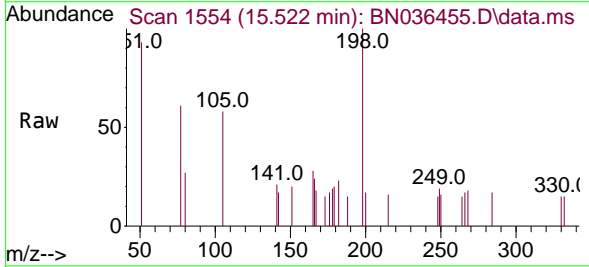
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Reviewed By :Anahy Claudio 02/13/2025

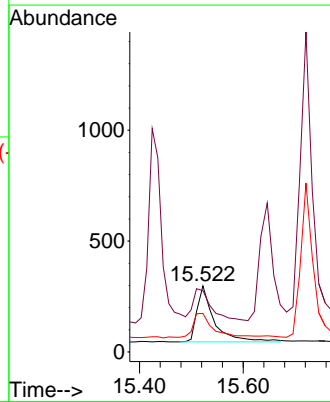
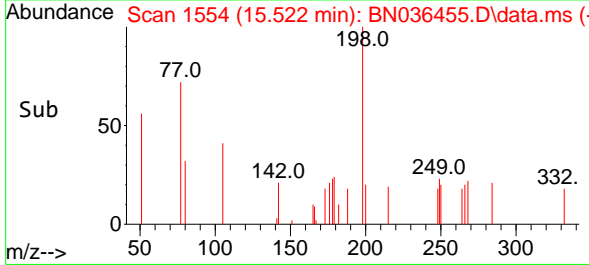
Supervised By :Jagrut Upadhyay 02/13/2025

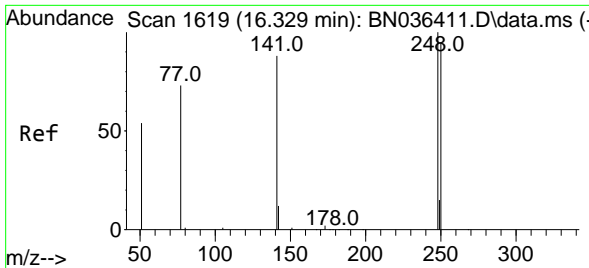


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.309 ng
 RT: 15.522 min Scan# 1554
 Delta R.T. -0.001 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



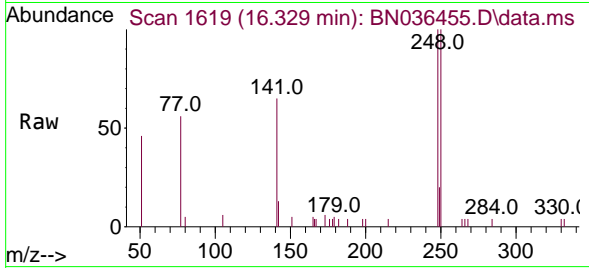
Tgt Ion:198 Resp: 572
 Ion Ratio Lower Upper
 198 100
 51 93.0 86.6 129.8
 105 58.4 57.5 86.3





#21
 4-Bromophenyl-phenylether
 Concen: 0.355 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

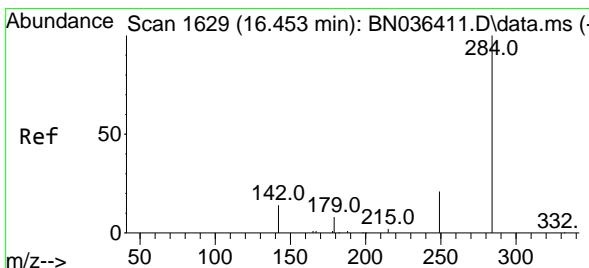
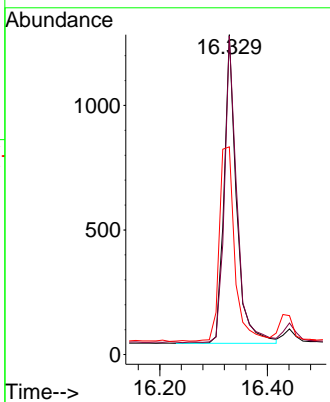
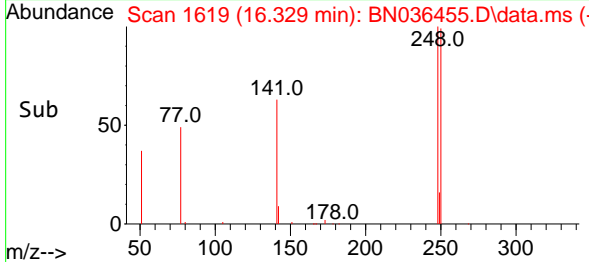


Tgt Ion: 248 Resp: 1990

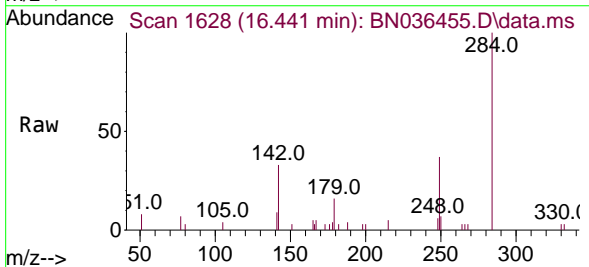
Ion	Ratio	Lower	Upper
248	100		
250	99.6	76.1	114.1
141	65.0	71.7	107.5

Manual Integrations
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Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

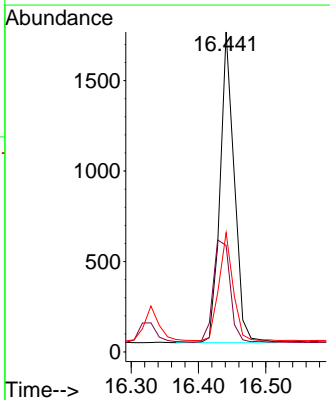
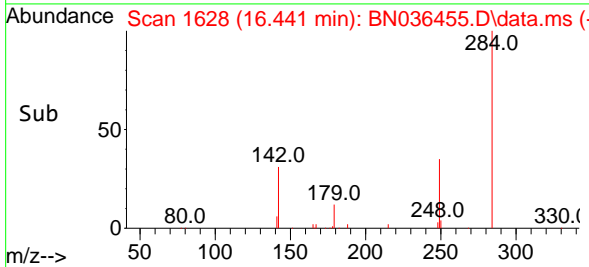


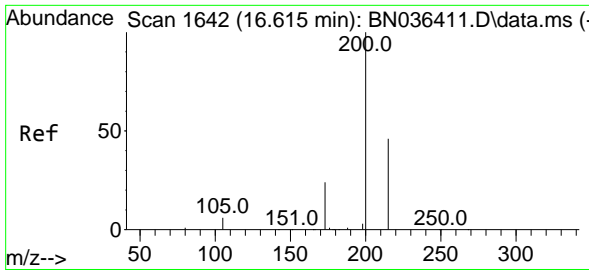
#22
 Hexachlorobenzene
 Concen: 0.362 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 284 Resp: 2519

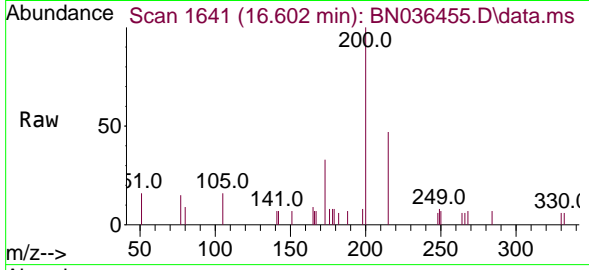
Ion	Ratio	Lower	Upper
284	100		
142	40.0	33.4	50.0
249	35.1	28.6	43.0





#23
 Atrazine
 Concen: 0.353 ng
 RT: 16.602 min Scan# 1656
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

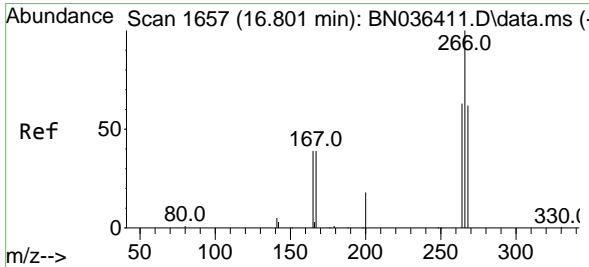
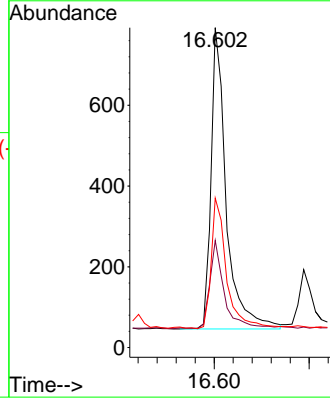
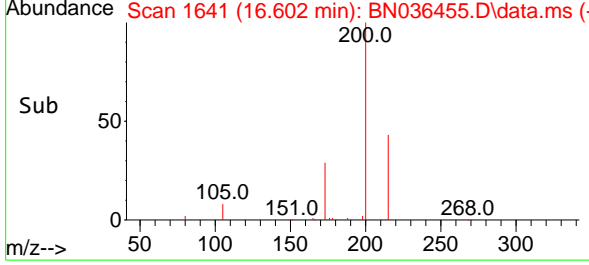
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



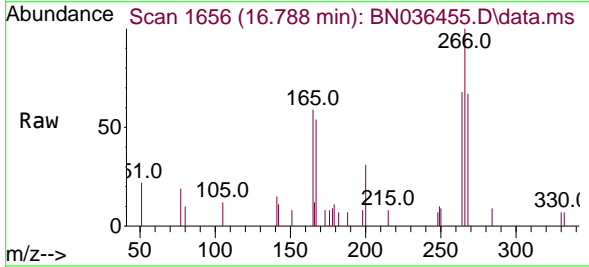
Tgt Ion: 200 Resp: 1656
 Ion Ratio Lower Upper
 200 100
 173 33.5 23.2 34.8
 215 46.7 40.0 60.0

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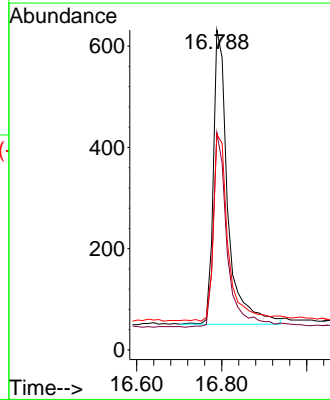
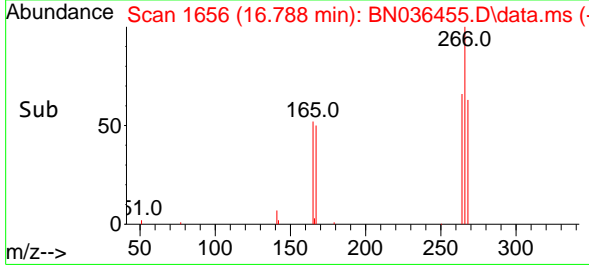
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

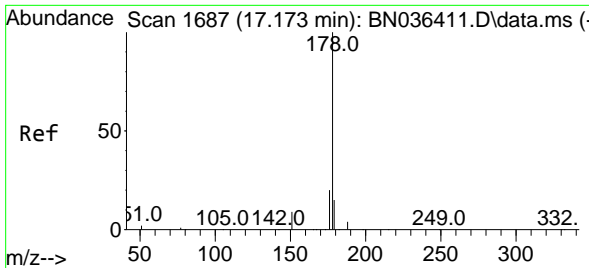


#24
 Pentachlorophenol
 Concen: 0.417 ng
 RT: 16.788 min Scan# 1656
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



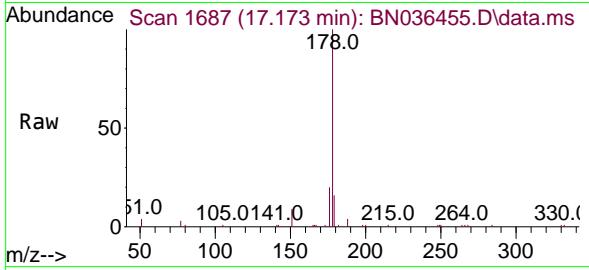
Tgt Ion: 266 Resp: 1375
 Ion Ratio Lower Upper
 266 100
 264 64.6 50.6 76.0
 268 64.7 51.9 77.9





#25
 Phenanthrene
 Concen: 0.369 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

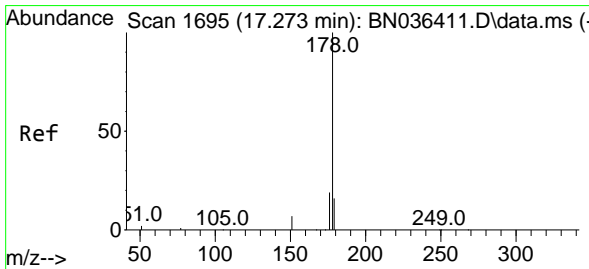
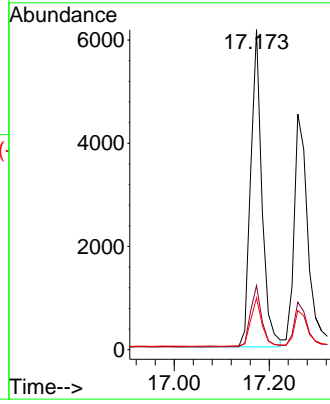
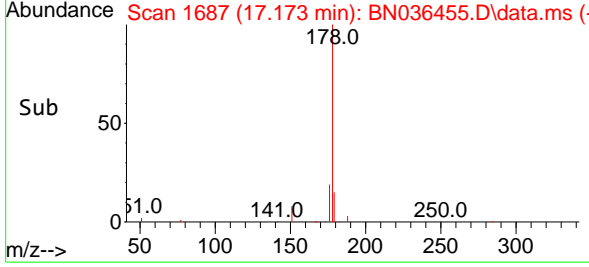
Instrument :
 BNA_N
 Client Sample Id :
 PB166675BSD



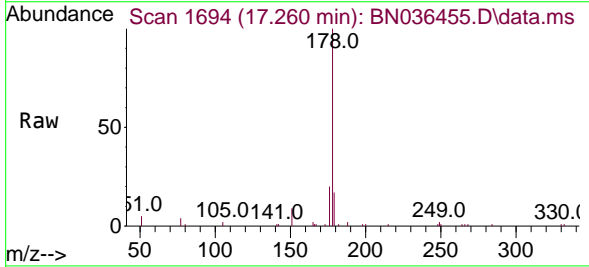
Tgt Ion:178 Resp: 1007
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.7 23.5
 179 15.5 12.4 18.6

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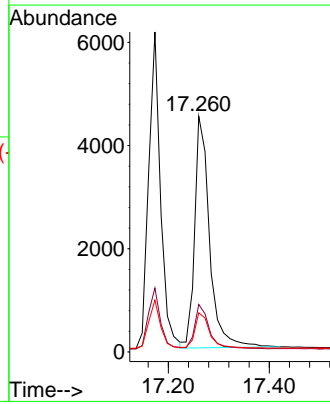
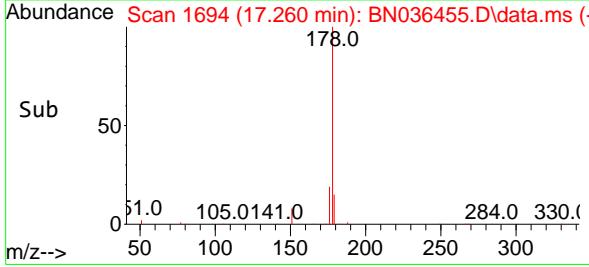
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

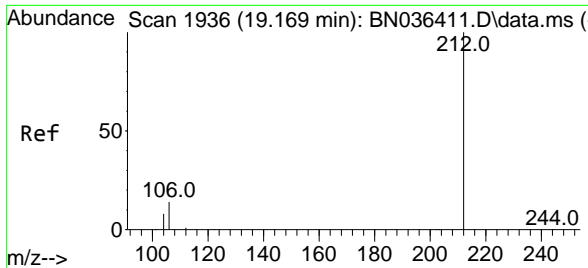


#26
 Anthracene
 Concen: 0.383 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



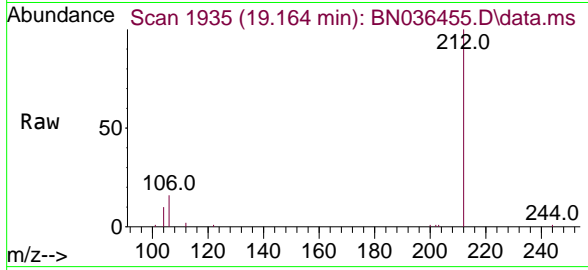
Tgt Ion:178 Resp: 9213
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.9 22.3
 179 15.3 12.4 18.6





#27
 Fluoranthene-d10
 Concen: 0.330 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

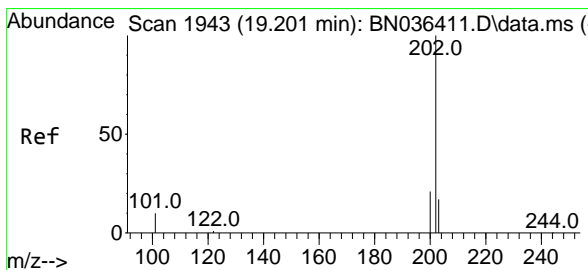
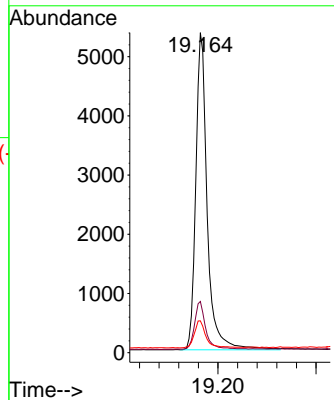
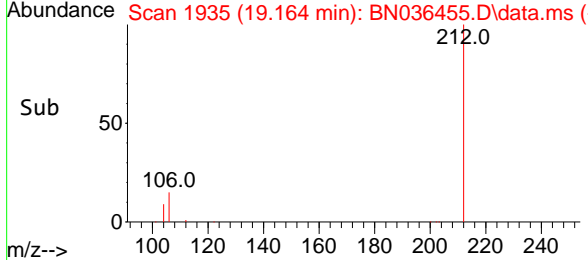


Tgt Ion: 212 Resp: 865

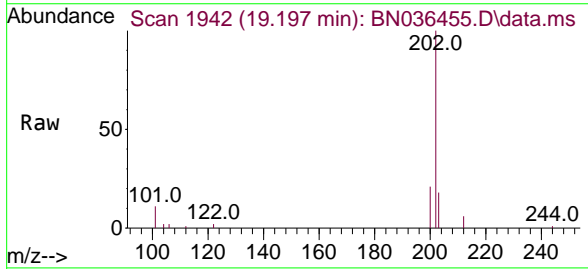
Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.5	17.3
104	8.6	7.1	10.7

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 Supervised By :Jagrut Upadhyay 02/13/2025

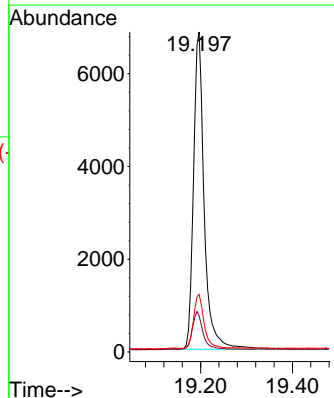
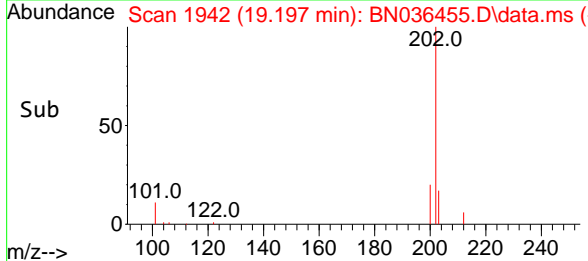


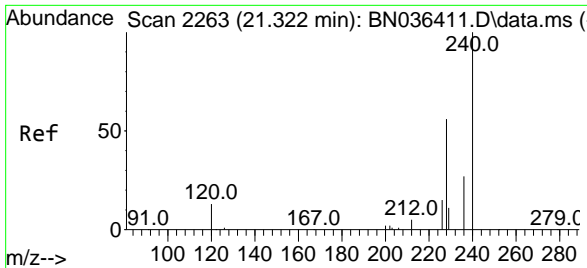
#28
 Fluoranthene
 Concen: 0.331 ng
 RT: 19.197 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 202 Resp: 11075

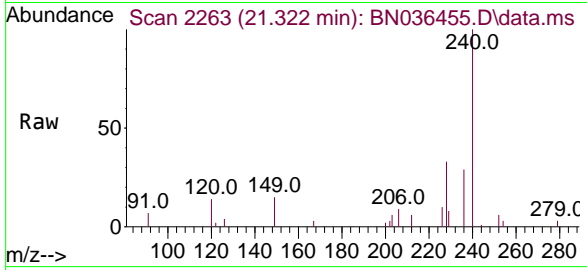
Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.2	13.8
203	16.8	13.4	20.0





#29
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
ClientSampleId :
 PB166675BSD

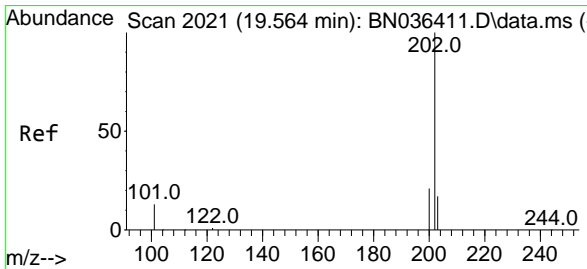
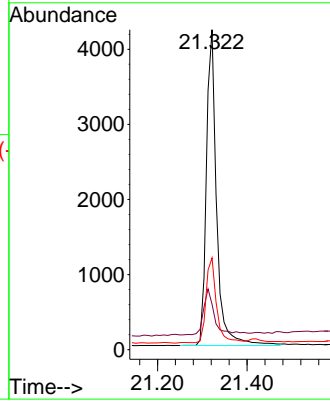
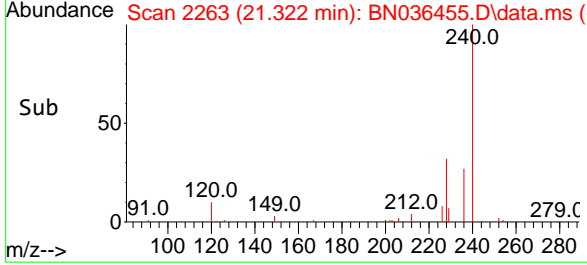


Tgt Ion: 240 Resp: 668

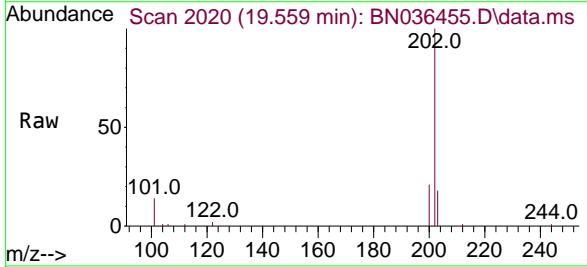
Ion	Ratio	Lower	Upper
240	100		
120	14.2	13.3	19.9
236	28.7	23.0	34.6

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 Supervised By :Jagrut Upadhyay 02/13/2025

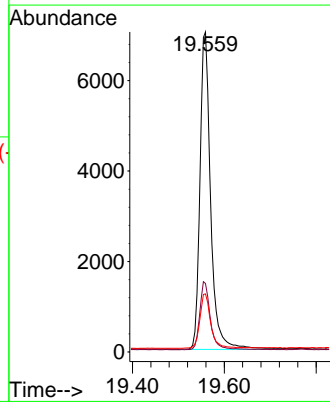
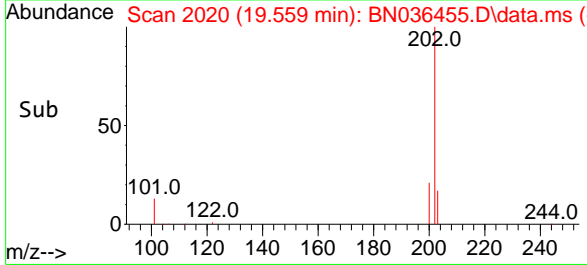


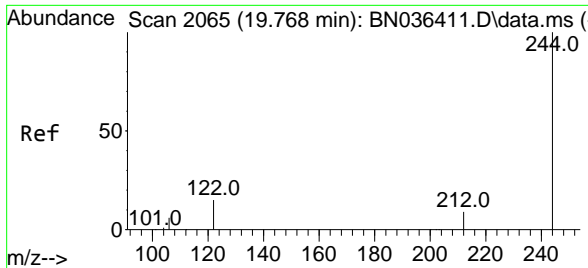
#30
Pyrene
 Concen: 0.442 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 202 Resp: 11367

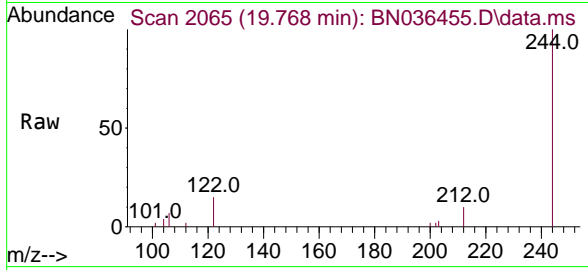
Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.9	13.9	20.9





#31
 Terphenyl-d14
 Concen: 0.415 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
ClientSampleId :
 PB166675BSD

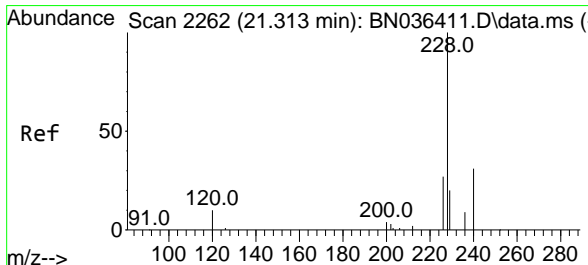
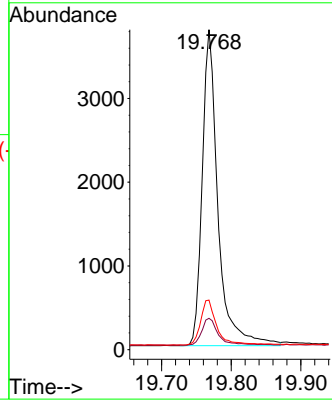
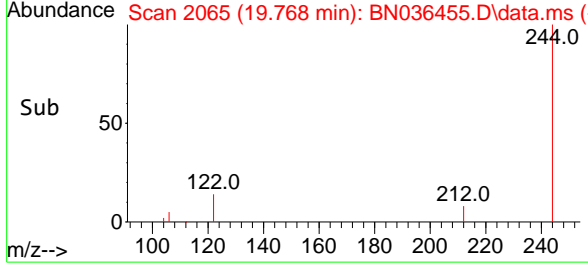


Tgt Ion: 244 Resp: 592

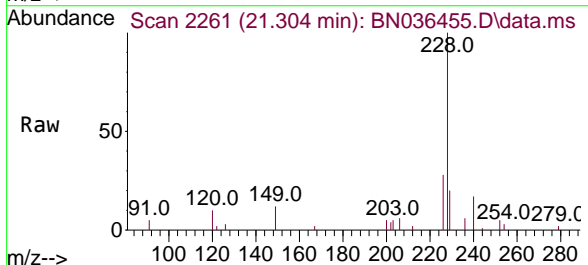
Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	15.5	12.8	19.2

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 Supervised By :Jagrut Upadhyay 02/13/2025

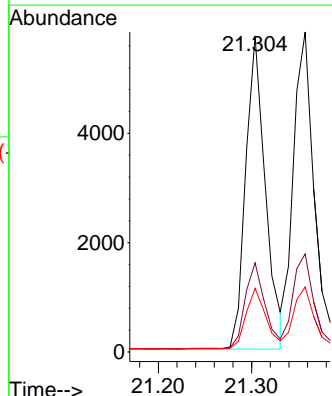
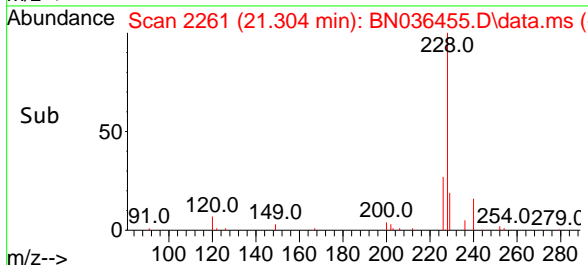


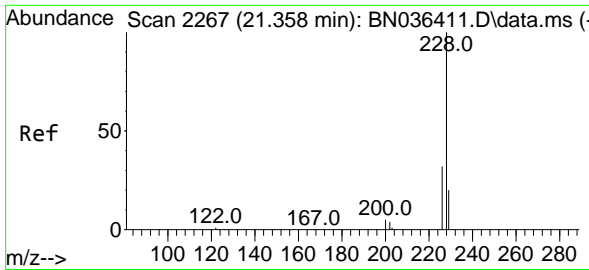
#32
 Benzo(a)anthracene
 Concen: 0.383 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 228 Resp: 8431

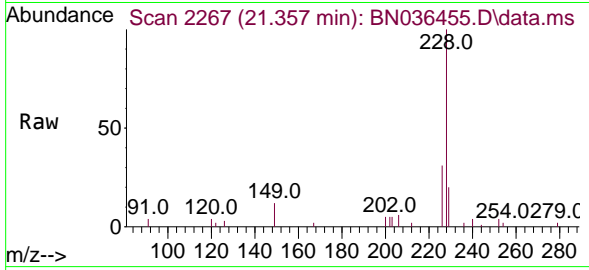
Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.2
229	20.1	16.5	24.7





#33
 Chrysene
 Concen: 0.398 ng
 RT: 21.357 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

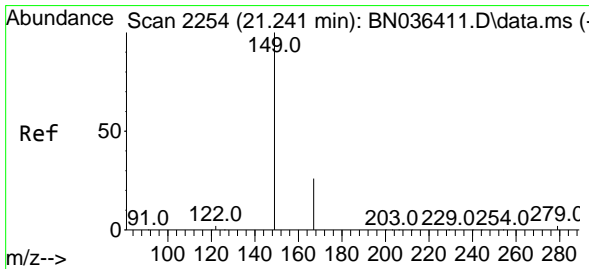
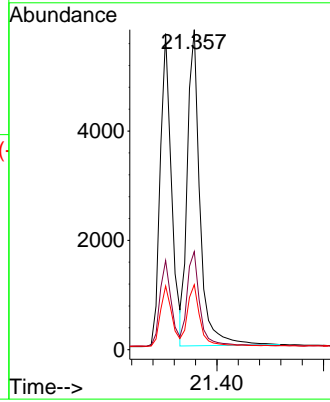
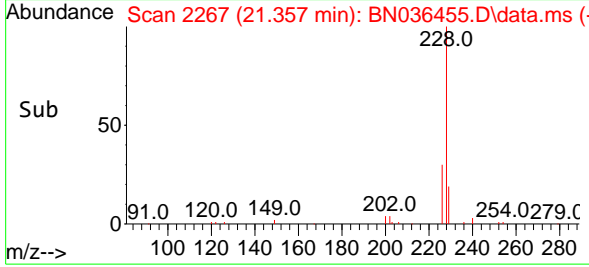


Tgt Ion: 228 Resp: 9478

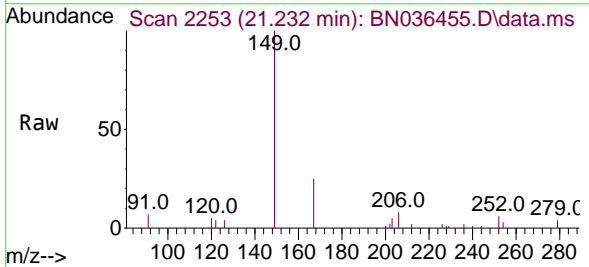
Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.5	38.3
229	20.3	16.4	24.6

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 Supervised By :Jagrut Upadhyay 02/13/2025

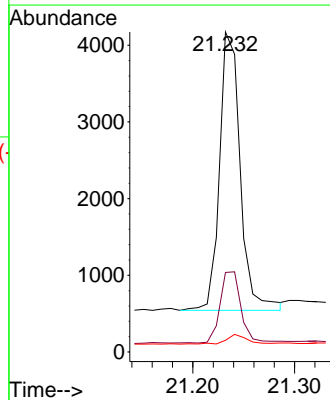
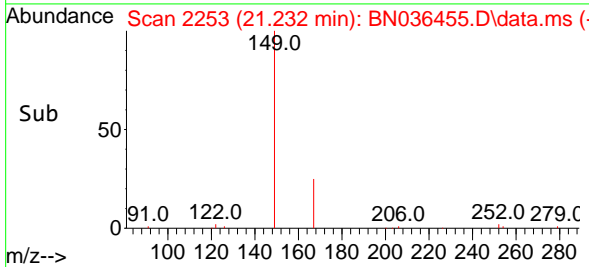


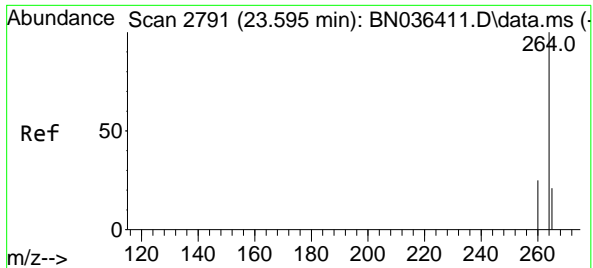
#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.375 ng
 RT: 21.232 min Scan# 2253
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 149 Resp: 5132

Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.2	31.8
279	3.4	2.7	4.1





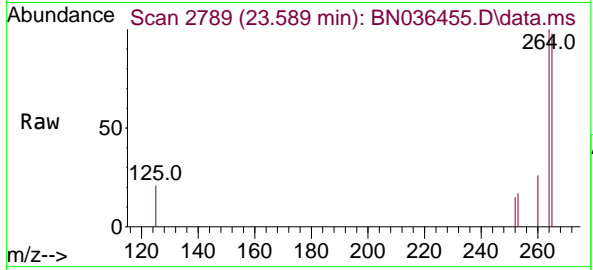
#35
Perylene-d12
 Concen: 0.400 ng
 RT: 23.589 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :

BNA_N

ClientSampleId :

PB166675BSD

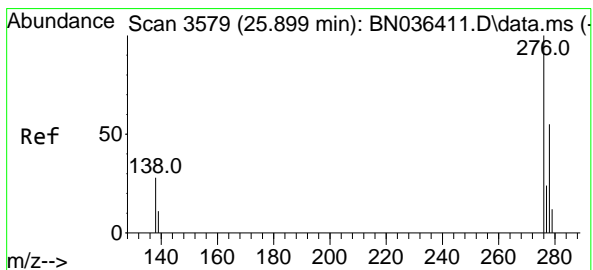
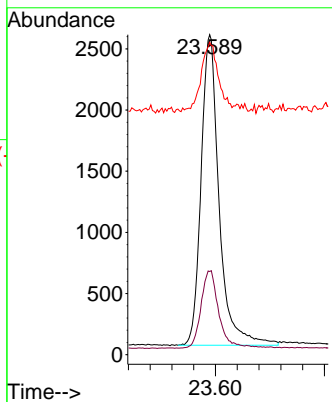
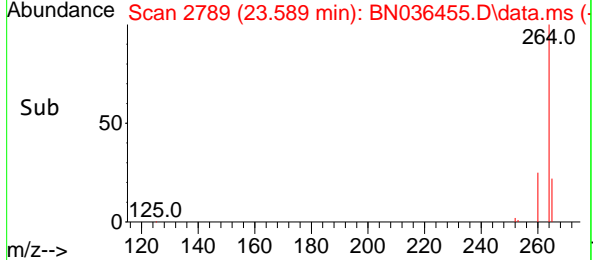


Tgt Ion:264 Resp: 5828
 Ion Ratio Lower Upper
 264 100
 260 26.0 20.9 31.3
 265 97.6 60.7 91.1

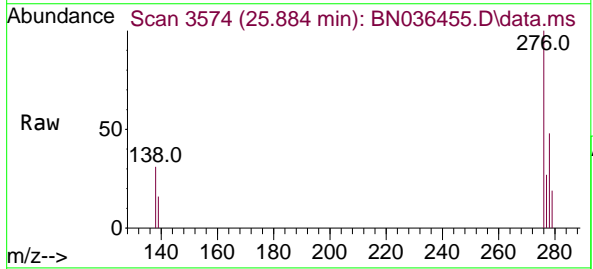
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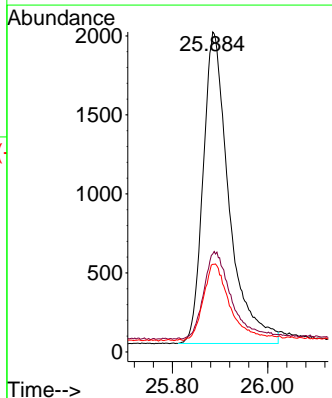
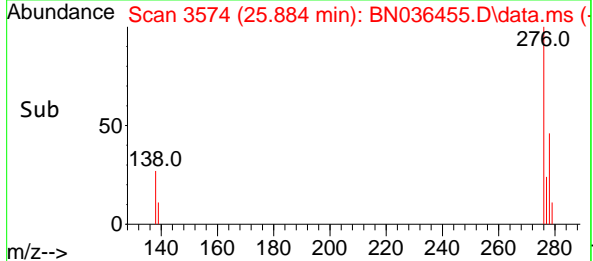
Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

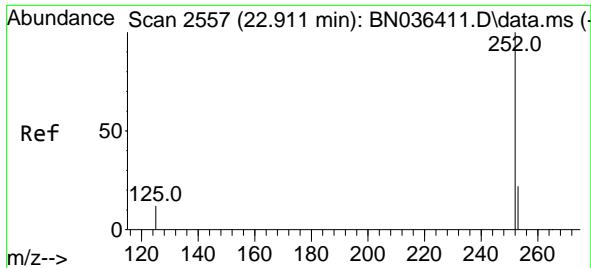


#36
Indeno(1,2,3-cd)pyrene
 Concen: 0.366 ng
 RT: 25.884 min Scan# 3574
 Delta R.T. -0.015 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



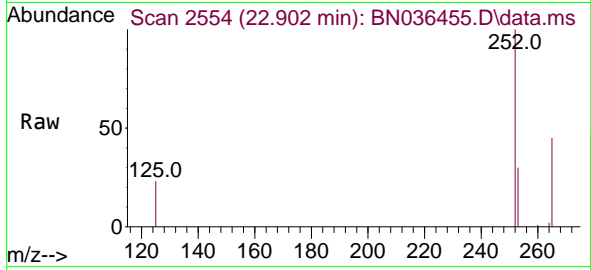
Tgt Ion:276 Resp: 7446
 Ion Ratio Lower Upper
 276 100
 138 29.4 22.2 33.2
 277 25.1 19.8 29.6





#37
Benzo(b)fluoranthene
 Concen: 0.374 ng
 RT: 22.902 min Scan# 2554
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
ClientSampleId :
 PB166675BSD

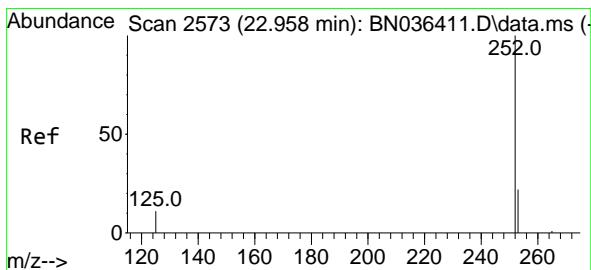
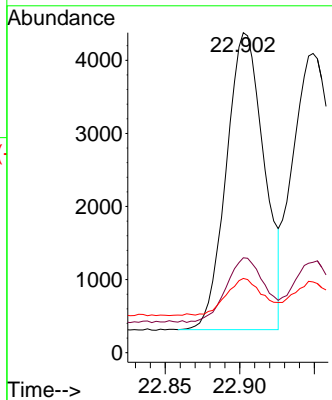
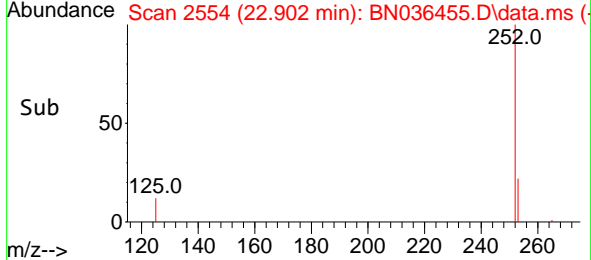


Tgt Ion: 252 Resp: 7169

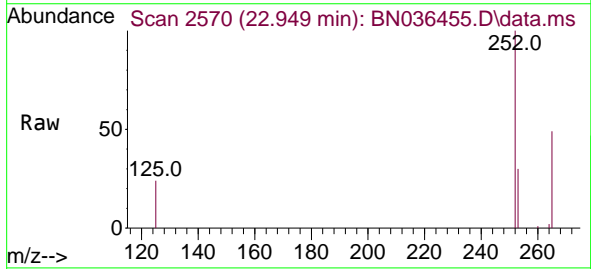
Ion	Ratio	Lower	Upper
252	100		
253	29.7	21.9	32.9
125	23.2	15.0	22.6

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 Supervised By :Jagrut Upadhyay 02/13/2025

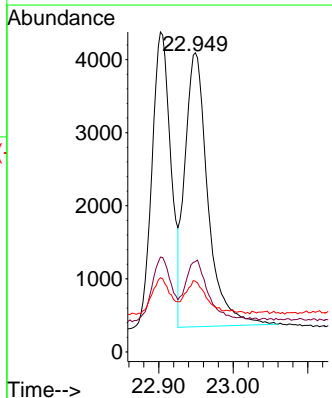
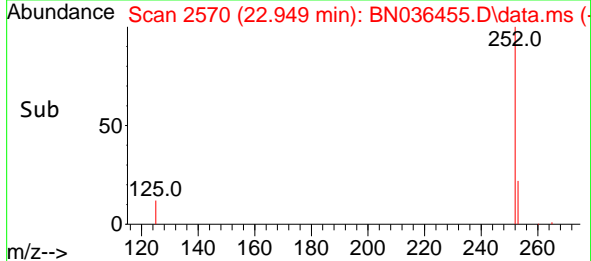


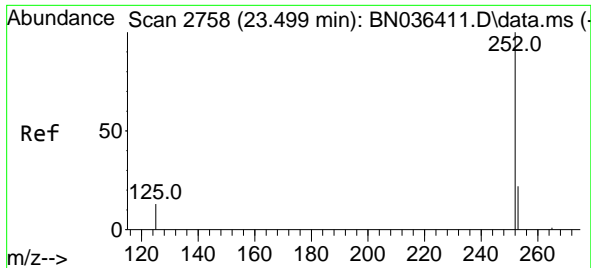
#38
Benzo(k)fluoranthene
 Concen: 0.407 ng
 RT: 22.949 min Scan# 2570
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 252 Resp: 8031

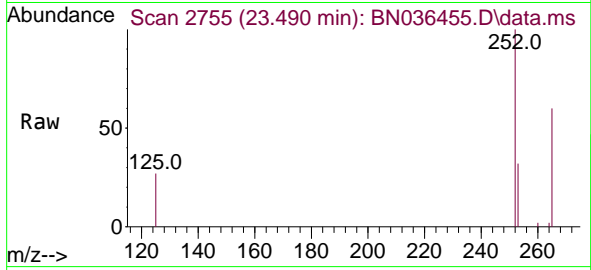
Ion	Ratio	Lower	Upper
252	100		
253	30.2	22.2	33.4
125	23.6	15.0	22.4





#39
 Benzo(a)pyrene
 Concen: 0.404 ng
 RT: 23.490 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

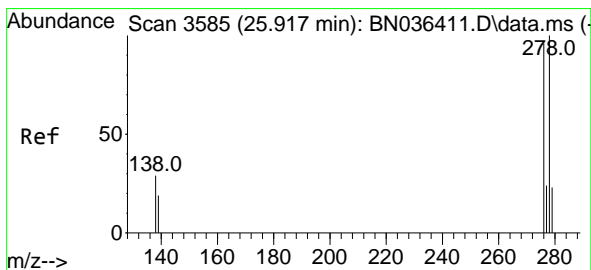
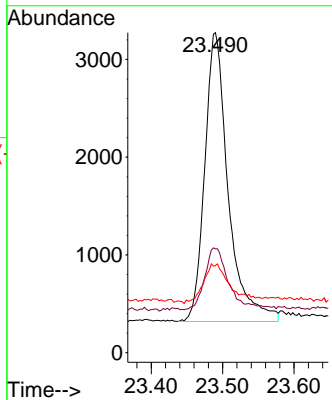
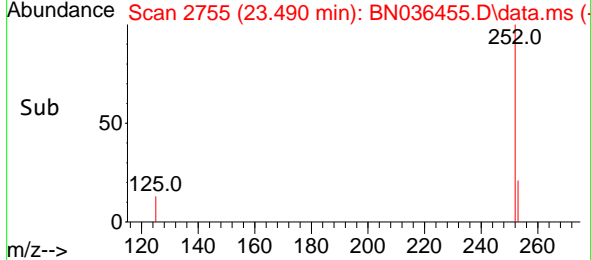


Tgt Ion: 252 Resp: 676

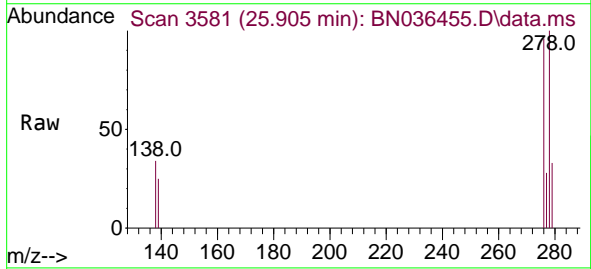
Ion	Ratio	Lower	Upper
252	100		
253	32.4	24.4	36.6
125	27.3	18.2	27.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025

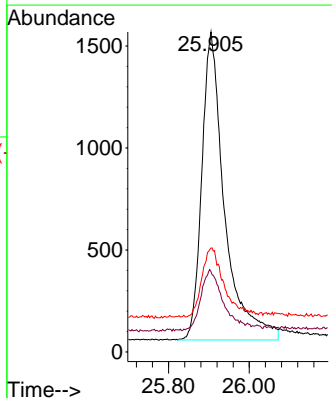
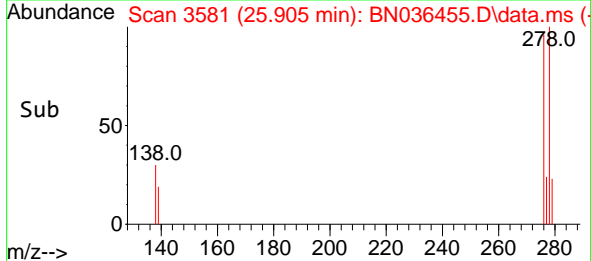


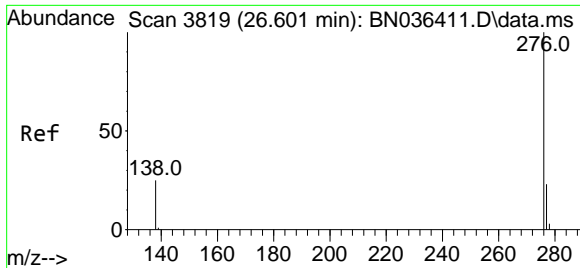
#40
 Dibenzo(a,h)anthracene
 Concen: 0.367 ng
 RT: 25.905 min Scan# 3581
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 278 Resp: 5905

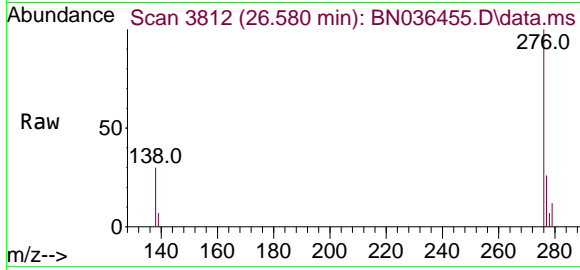
Ion	Ratio	Lower	Upper
278	100		
139	25.1	18.5	27.7
279	32.5	24.8	37.2





#41
 Benzo(g,h,i)perylene
 Concen: 0.335 ng m
 RT: 26.580 min Scan# 3812
 Delta R.T. -0.021 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

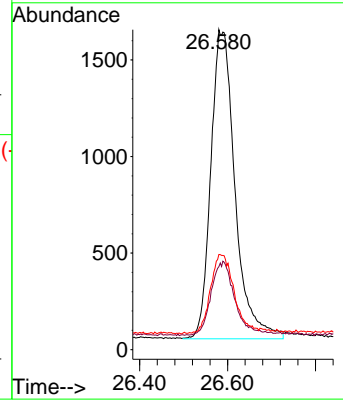
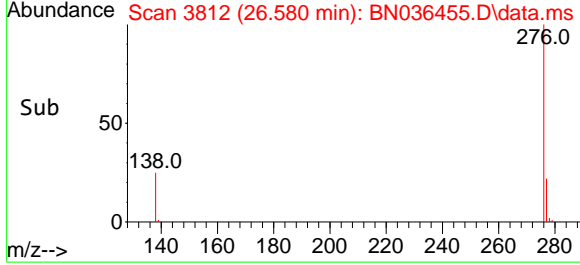
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



Tgt Ion: 276 Resp: 6109

Ion	Ratio	Lower	Upper
276	100		
277	26.0	20.7	31.1
138	29.8	21.8	32.6

Manual Integrations
APPROVED
 Reviewed By :Anahy Claudio 02/13/2025
 Supervised By :Jagrut Upadhyay 02/13/2025



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Manual Integration Report

Sequence:	BN021025	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Manual Integration Report

Sequence:	BN021225	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166675BSD	BN036455.D	2-Methylnaphthalene-d1 0	anahy	2/13/2025 4:12:04 PM	Jagrut	2/13/2025 5:46:26 PM	Peak Integrated by Software
PB166675BSD	BN036455.D	Benzo(g,h,i)perylene	anahy	2/13/2025 4:12:04 PM	Jagrut	2/13/2025 5:46:26 PM	Peak Integrated by Software
PB166675BS	BN036456.D	2-Methylnaphthalene-d1 0	anahy	2/13/2025 4:12:55 PM	Jagrut	2/13/2025 5:46:28 PM	Peak Integrated by Software
SSTDCCC0.4	BN036457.D	Benzo(b)fluoranthene	anahy	2/13/2025 4:13:45 PM	Jagrut	2/13/2025 5:46:30 PM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021025

Review By	Rahul	Review On	2/11/2025 4:21:36 PM		
Supervise By	Jagrut	Supervise On	2/11/2025 6:22:45 PM		
SubDirectory	BN021025	HP Acquire Method	BNA_N, 8270_SIL	HP Processing Method	bn021025
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731				
CCC	SP6735				
Internal Standard/PEM	SP6682,1ul/100ul sample				
ICV/I.BLK	SP6684				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036408.D	10 Feb 2025 11:46	RC/JU	Ok
2	SSTDICC0.1	BN036409.D	10 Feb 2025 12:25	RC/JU	Ok
3	SSTDICC0.2	BN036410.D	10 Feb 2025 13:01	RC/JU	Ok
4	SSTDICCC0.4	BN036411.D	10 Feb 2025 13:36	RC/JU	Ok
5	SSTDICC0.8	BN036412.D	10 Feb 2025 14:12	RC/JU	Ok
6	SSTDICC1.6	BN036413.D	10 Feb 2025 14:48	RC/JU	Ok
7	SSTDICC3.2	BN036414.D	10 Feb 2025 15:24	RC/JU	Ok
8	SSTDICC5.0	BN036415.D	10 Feb 2025 16:00	RC/JU	Ok
9	SSTDICV0.4	BN036416.D	10 Feb 2025 16:36	RC/JU	Ok
10	PB166297BL	BN036417.D	10 Feb 2025 17:48	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021225

Review By	Rahul	Review On	2/13/2025 4:27:10 PM		
Supervise By	Jagrut	Supervise On	2/13/2025 5:46:47 PM		
SubDirectory	BN021225	HP Acquire Method	BNA_N, 8270_SiM	HP Processing Method	bn021025
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731				
CCC	SP6735				
Internal Standard/PEM	SP6682,1ul/100ul sample				
ICV/I.BLK	SP6684				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036431.D	12 Feb 2025 08:49	RC/JU	Ok
2	SSTDCCC0.4	BN036432.D	12 Feb 2025 09:34	RC/JU	Ok
3	PB166300BL	BN036433.D	12 Feb 2025 10:12	RC/JU	Ok
4	Q1168-03	BN036434.D	12 Feb 2025 10:56	RC/JU	Ok
5	Q1168-03	BN036435.D	12 Feb 2025 11:31	RC/JU	Ok,M
6	Q1168-09	BN036436.D	12 Feb 2025 12:07	RC/JU	Ok
7	Q1168-09	BN036437.D	12 Feb 2025 12:43	RC/JU	Ok
8	PB166297BL	BN036438.D	12 Feb 2025 13:19	RC/JU	Ok
9	SSTDCCC0.4	BN036439.D	12 Feb 2025 14:30	RC/JU	Ok
10	DFTPP	BN036440.D	12 Feb 2025 15:09	RC/JU	Ok
11	SSTDCCC0.4	BN036441.D	12 Feb 2025 15:48	RC/JU	Ok
12	PB166675BL	BN036442.D	12 Feb 2025 16:24	RC/JU	Ok
13	PB166609BL	BN036443.D	12 Feb 2025 17:00	RC/JU	Ok
14	Q1347-01	BN036444.D	12 Feb 2025 17:36	RC/JU	Ok
15	Q1347-03	BN036445.D	12 Feb 2025 18:12	RC/JU	Ok
16	Q1347-05	BN036446.D	12 Feb 2025 18:48	RC/JU	Ok
17	Q1325-02	BN036447.D	12 Feb 2025 19:23	RC/JU	ReRun
18	Q1325-06	BN036448.D	12 Feb 2025 19:59	RC/JU	Ok
19	Q1327-01	BN036449.D	12 Feb 2025 20:35	RC/JU	ReRun
20	Q1327-05	BN036450.D	12 Feb 2025 21:12	RC/JU	Ok,M
21	Q1327-07	BN036451.D	12 Feb 2025 21:47	RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021225

Review By	Rahul	Review On	2/13/2025 4:27:10 PM		
Supervise By	Jagrut	Supervise On	2/13/2025 5:46:47 PM		
SubDirectory	BN021225	HP Acquire Method	BNA_N, 8270_SiM	HP Processing Method	bn021025
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731				
CCC	SP6735				
Internal Standard/PEM	SP6682,1ul/100ul sample				
ICV/I.BLK	SP6684				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1327-09	BN036452.D	12 Feb 2025 22:23	RC/JU	Ok
23	PB166609BS	BN036453.D	12 Feb 2025 22:59	RC/JU	Ok,M
24	PB166609BSD	BN036454.D	12 Feb 2025 23:35	RC/JU	Ok,M
25	PB166675BSD	BN036455.D	13 Feb 2025 00:11	RC/JU	Ok,M
26	PB166675BS	BN036456.D	13 Feb 2025 00:47	RC/JU	Ok,M
27	SSTDCCC0.4	BN036457.D	13 Feb 2025 01:23	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021025

Review By	Rahul	Review On	2/11/2025 4:21:36 PM
Supervise By	Jagrut	Supervise On	2/11/2025 6:22:45 PM
SubDirectory	BN021025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036408.D	10 Feb 2025 11:46		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036409.D	10 Feb 2025 12:25		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN036410.D	10 Feb 2025 13:01		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN036411.D	10 Feb 2025 13:36	The Calibration is Good For DOD	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036412.D	10 Feb 2025 14:12		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036413.D	10 Feb 2025 14:48		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036414.D	10 Feb 2025 15:24		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036415.D	10 Feb 2025 16:00	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN021025	BN036416.D	10 Feb 2025 16:36		RC/JU	Ok
10	PB166297BL	PB166297BL	BN036417.D	10 Feb 2025 17:48	Analyzed for contamination check, END CCC Missing	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021225

Review By	Rahul	Review On	2/13/2025 4:27:10 PM
Supervise By	Jagrut	Supervise On	2/13/2025 5:46:47 PM
SubDirectory	BN021225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036431.D	12 Feb 2025 08:49		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036432.D	12 Feb 2025 09:34		RC/JU	Ok
3	PB166300BL	PB166300BL	BN036433.D	12 Feb 2025 10:12		RC/JU	Ok
4	Q1168-03	MDL-SOIL-03-QT1-202	BN036434.D	12 Feb 2025 10:56	MDL-SOIL 0.1 ppm	RC/JU	Ok
5	Q1168-03	MDL-SOIL-03-QT1-202	BN036435.D	12 Feb 2025 11:31	MDL-SOIL 0.2 ppm	RC/JU	Ok,M
6	Q1168-09	MDL-WATER-03-QT1-2	BN036436.D	12 Feb 2025 12:07	MDL-WATER 0.1 ppm	RC/JU	Ok
7	Q1168-09	MDL-WATER-03-QT1-2	BN036437.D	12 Feb 2025 12:43	MDL-WATER 0.2 ppm	RC/JU	Ok
8	PB166297BL	PB166297BL	BN036438.D	12 Feb 2025 13:19		RC/JU	Ok
9	SSTDCCC0.4	SSTDCCC0.4EC	BN036439.D	12 Feb 2025 14:30		RC/JU	Ok
10	DFTPP	DFTPP	BN036440.D	12 Feb 2025 15:09		RC/JU	Ok
11	SSTDCCC0.4	SSTDCCC0.4	BN036441.D	12 Feb 2025 15:48		RC/JU	Ok
12	PB166675BL	PB166675BL	BN036442.D	12 Feb 2025 16:24		RC/JU	Ok
13	PB166609BL	PB166609BL	BN036443.D	12 Feb 2025 17:00		RC/JU	Ok
14	Q1347-01	BP-VPB-192-EB-20250	BN036444.D	12 Feb 2025 17:36		RC/JU	Ok
15	Q1347-03	BP-VPB-192-GW-710-7	BN036445.D	12 Feb 2025 18:12		RC/JU	Ok
16	Q1347-05	BP-VPB-192-GW-660-6	BN036446.D	12 Feb 2025 18:48		RC/JU	Ok
17	Q1325-02	DSN002	BN036447.D	12 Feb 2025 19:23	Surrogate Fail	RC/JU	ReRun
18	Q1325-06	DSN003	BN036448.D	12 Feb 2025 19:59		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021225

Review By	Rahul	Review On	2/13/2025 4:27:10 PM
Supervise By	Jagrut	Supervise On	2/13/2025 5:46:47 PM
SubDirectory	BN021225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1327-01	VPB192-HYD-2025020	BN036449.D	12 Feb 2025 20:35	Surrogate Fail	RC/JU	ReRun
20	Q1327-05	BP-VPB-192-GW-540-5	BN036450.D	12 Feb 2025 21:12		RC/JU	Ok,M
21	Q1327-07	BP-VPB-192-GW-580-5	BN036451.D	12 Feb 2025 21:47		RC/JU	Ok
22	Q1327-09	BP-VPB-192-GW-625-6	BN036452.D	12 Feb 2025 22:23		RC/JU	Ok
23	PB166609BS	PB166609BS	BN036453.D	12 Feb 2025 22:59		RC/JU	Ok,M
24	PB166609BSD	PB166609BSD	BN036454.D	12 Feb 2025 23:35		RC/JU	Ok,M
25	PB166675BSD	PB166675BSD	BN036455.D	13 Feb 2025 00:11		RC/JU	Ok,M
26	PB166675BS	PB166675BS	BN036456.D	13 Feb 2025 00:47		RC/JU	Ok,M
27	SSTDCCC0.4	SSTDCCC0.4EC	BN036457.D	13 Feb 2025 01:23		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 02/11/2025

Matrix : Water **Extraction Start Time :** 11:05

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 02/11/1925

Balance check: N/A **Filter By:** RS **Extraction End Time :** 15:55

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3574 **Hood ID:** 4,5,6,7 **Supervisor By :** rajesh

Extraction Method: Separatory Funnel 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	SP6739
Surrogate	1.0ML	0.4 PPM	SP6718
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	E3874
Baked Na2SO4	N/A	EP2585
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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. Q1347-05 Limited volume used as sample is Muddy matrix. Q1347-03 Limited volume recd.

KD Bath ID: Water bath -01,02 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/11/25	RP (Ext. 705)	AC/SVOC
16:00	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 02/11/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166675BL	SBLK675	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-01
PB166675BS	SLCS675	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB166675BS D	SLCSD675	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q1347-01	BP-VPB-192-EB-2025020 7	SVOC-SIMGrou p1	850	6	RUPESH	ritesh	1	C		4
Q1347-03	BP-VPB-192-GW-710-712	SVOC-SIMGrou p1	540	6	RUPESH	ritesh	1	C		5
Q1347-05	BP-VPB-192-GW-660-662	SVOC-SIMGrou p1	100	6	RUPESH	ritesh	1	E	Muddy	6



* Extracts relinquished on the same date as received.

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2/11/25

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WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1347 WorkList ID : 187638 Department : Extraction Date : 02-11-2025 11:00:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1347-01	BP-VPB-192-EB-20250207	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	02/07/2025	8270-Modified
Q1347-03	BP-VPB-192-GW-710-712	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	02/10/2025	8270-Modified
Q1347-05	BP-VPB-192-GW-660-662	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	02/06/2025	8270-Modified

Date/Time 02/11/25 11:02
 Raw Sample Received by: RJ (Sat 104)
 Raw Sample Relinquished by: [Signature]

Date/Time 02/11/25 11:20
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RS (Sat 104)

Prep Standard - Chemical Standard Summary

Order ID : Q1347
Test : SVOC-SIMGroup1
Prepbatch ID : PB166675,
Sequence ID/Qc Batch ID: BN021225,

Standard ID :
EP2559,EP2565,EP2585,SP6682,SP6683,SP6684,SP6717,SP6718,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3828,E3846,E3871,E3873,E3874,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12208,S12270,S12328,S12469,S12478,S12517,S12525,S12791,S12966,W3112,

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Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml



Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2585	02/07/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/07/2025

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	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

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	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024
<p>SOURCE</p> <p>FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml</p>								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024
<p>SOURCE</p> <p>FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml</p>								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = 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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6718	01/17/2025	04/10/2025	Rahul Chavli	None	None	Shreena Patel 02/07/2025

FROM 0.00400ml of S12189 + 0.00800ml of S12208 + 0.02000ml of S11831 + 99.96800ml of E3846 = 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = 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>
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025
FROM	0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 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	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

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	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

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	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

[CS 4978-2]

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	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Z-112090	Lot No.: 440246	Storage: ≤ -10 °C	Solvent: Methylene Chloride	Exp. Date: 2/16/2026	Description: CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
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

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Pentachlorophenol	1,003.6 µg/mL	+/-	5.8897	µg/mL	Gravimetric
	CAS # 87-86-5 (Lot 211229RSR)		+/-	45.7132	µg/mL	Unstressed
	Purity 99%		+/-	66.0037	µg/mL	Stressed
2	DFTPP (Decafluorotriphenylphosphine)	1,006.6 µg/mL	+/-	5.9074	µg/mL	Gravimetric
	CAS # 5074-71-5 (Lot Q117-147)		+/-	45.8508	µg/mL	Unstressed
	Purity 95%		+/-	66.2023	µg/mL	Stressed
3	Benzidine	1,008.4 µg/mL	+/-	5.9179	µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 211228JLM)		+/-	45.9318	µg/mL	Unstressed
	Purity 99%		+/-	66.3193	µg/mL	Stressed
4	4,4'-DDT	1,007.6 µg/mL	+/-	5.9132	µg/mL	Gravimetric
	CAS # 50-29-3 (Lot 210916JLM)		+/-	45.8954	µg/mL	Unstressed
	Purity 99%		+/-	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)

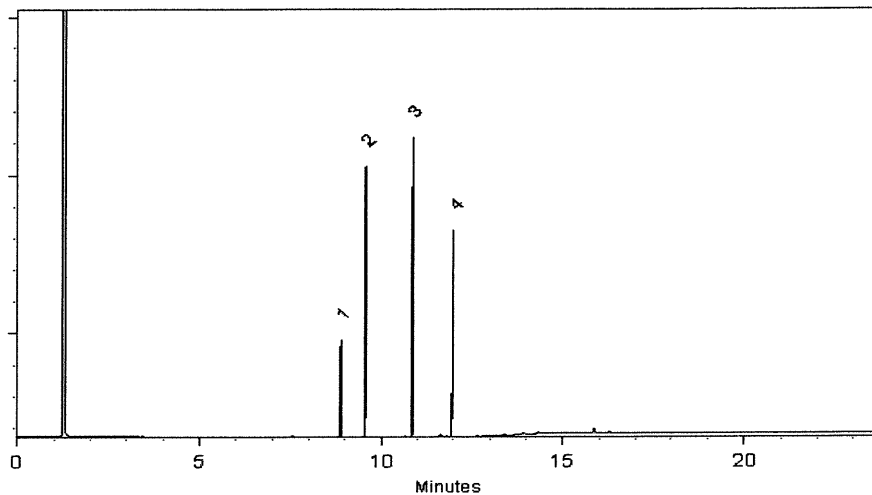
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Marlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23
b1
CG
S 11071
to
S 11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/-	11.8486	µg/mL	Gravimetric
			+/-	43.2570	µg/mL	Unstressed
			+/-	44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

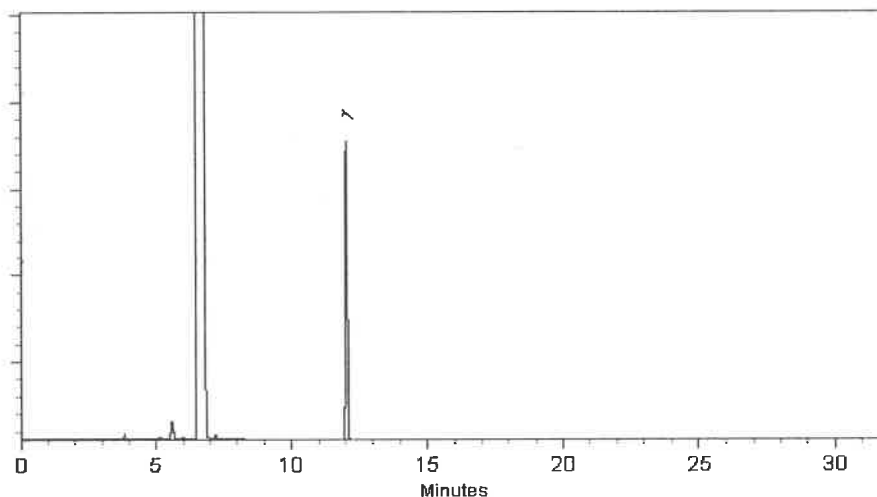
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905


Martina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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**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. 1



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	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
 VWR Chemicals, LLC.
 28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis
 (dichloromethane)



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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
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: 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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP On 12/13/24

E 3846

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
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 HeptachlorEpoxide) 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	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titration Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

J. Croak
 Jarric Croak
 Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis
 (dichloromethane)



Material No.: 9266-A4
 Batch No.: 25A0262002
 Manufactured Date: 2024-11-21
 Expiration Date: 2026-02-20
 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 HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 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: United States
 Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874


 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

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.: 506889 **Storage:** ≤ -10 °C **Solvent:** Methylene Chloride **Exp. Date:** 7/25/2028 **Description:** 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-d ₅	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

Clint Tipton
 Chemist

Certified By: _____

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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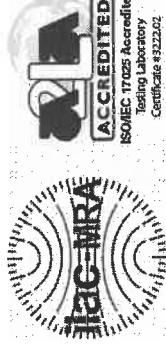
CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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.: A0201728

Description: Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: September 30, 2026 Storage: 10°C or colder

Ship: Ambient

51164g } Y.P.
 ↓ 111B/R3
51165g

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey
Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

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:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

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:

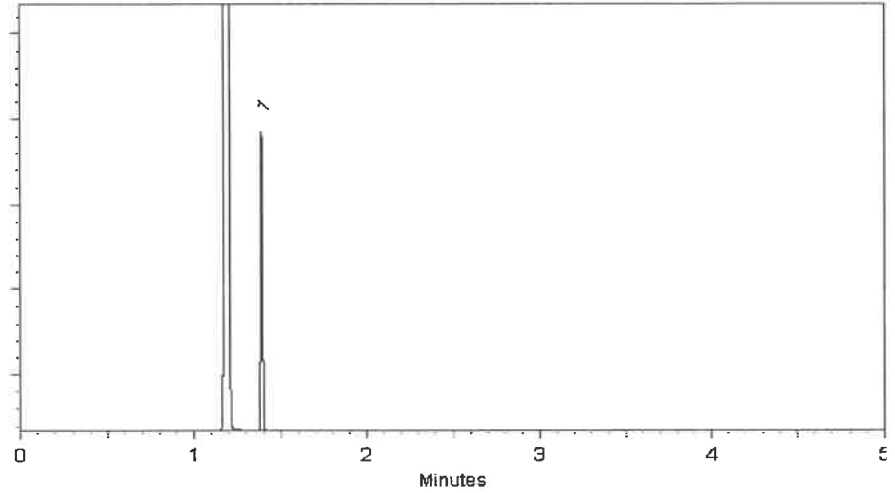
FID

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

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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:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

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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110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: 1-814-353-1300
 Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
 ↓
 S11832 } RC/
 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

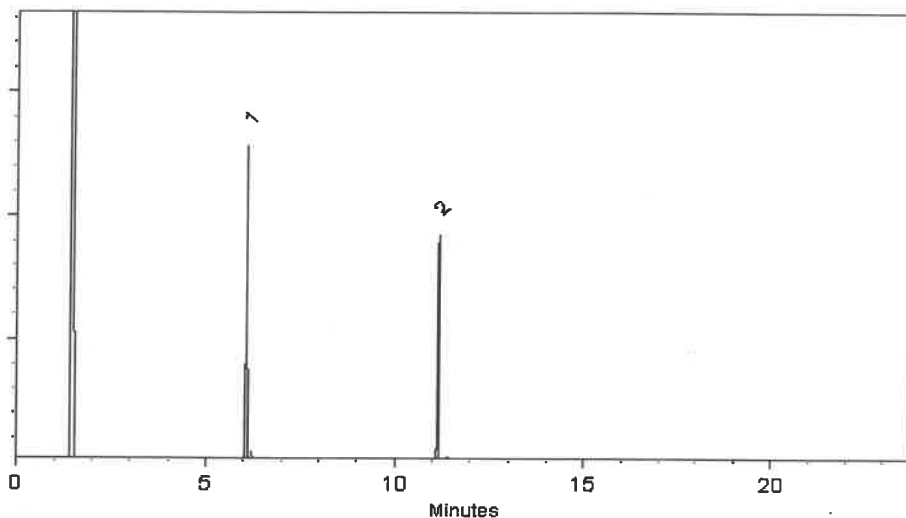
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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 Fax: 1-814-353-1309

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
 ↓
 S11832 } RC/
 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

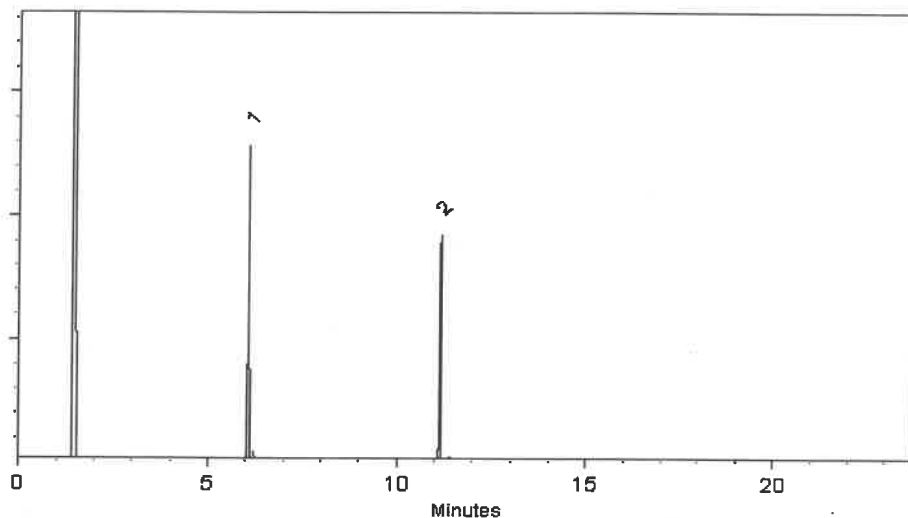
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

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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Santa Rosa, CA 95403

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Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: Melissa Workoff
Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726
Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2025 **Storage:** 0°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
 ↓ } 03/18/24
 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	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

S12187 } RC/
 ↓ }
 S12206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

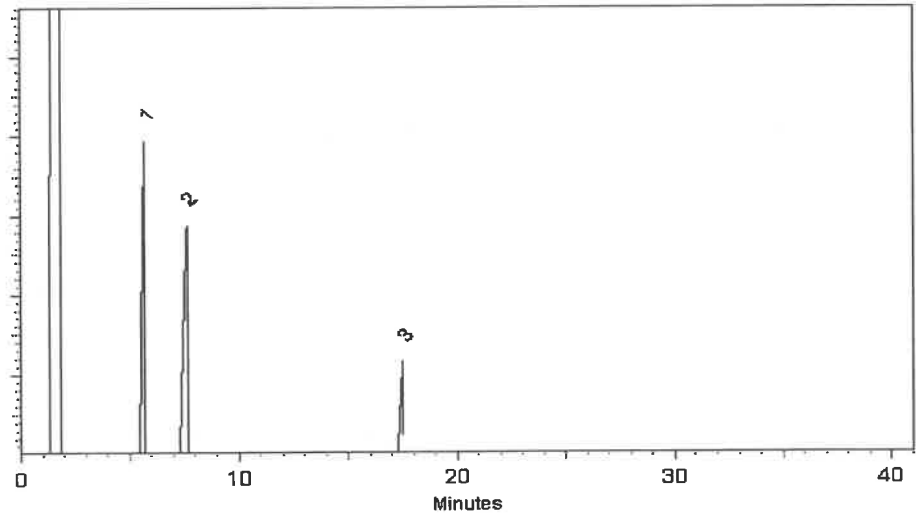
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 Balance Serial # 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
 ↓
 S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

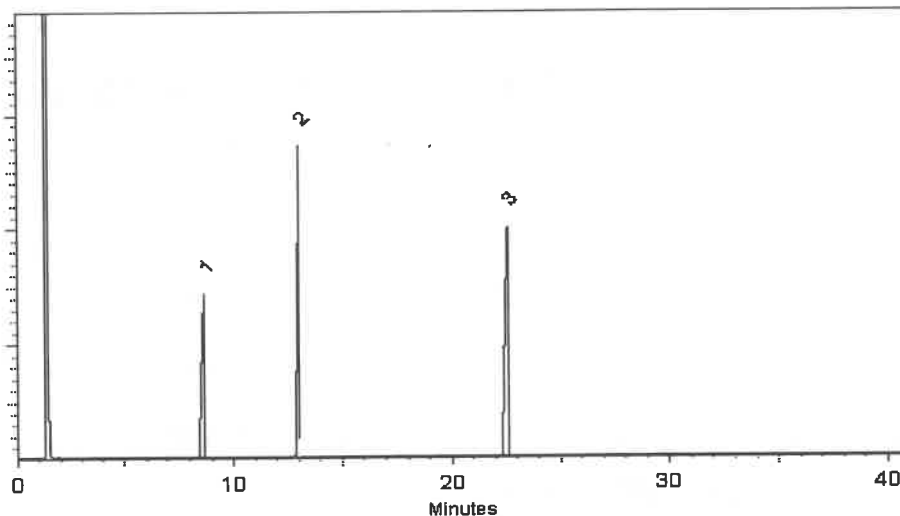
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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 4

Catalog No.: Z-110381-01	Lot No.: 520963	Storage: ≤ -10 °C	Solvent: Methylene Chloride	Exp. Date: 10/10/2028	Description: Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL
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Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 } RC/
↓
S12274 } 05/24/24

*Not a certified value

Kerry Kane

Certified By: _____

Kerry Kane
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

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry E Kane

Certified By: _____
Kerry Kane
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

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry E Kane

Certified By: _____
Kerry Kane
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

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

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*Not a certified value



Certified By: _____
Kerry Kane
Chemist

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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. : 31206 **Lot No.:** A0206540
Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
 ↓ } 05/30/24
 S12331 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

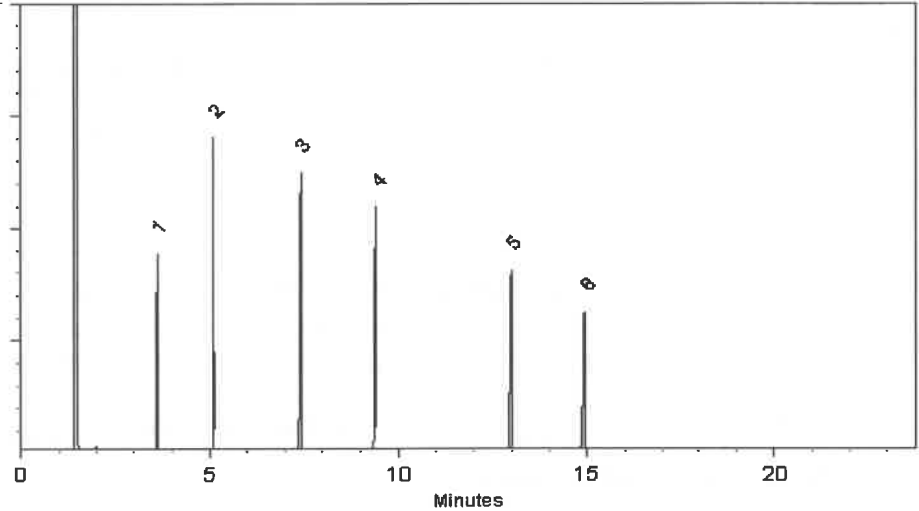
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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. : 555223 **Lot No.:** A0214021
Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
 ↓
 S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021
Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
 ↓
 S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis
 gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 Lot No.: A0214017
 Description : Custom 8270 Plus Standard #2
 Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Expiration Date : July 31, 2026 Storage: 10°C or colder
 Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
 CAS # 75-09-2
 Purity 99%

S12509 } RC/
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 S12568 } 7/24/24

Jess Hoy - Operations Tech I Date Mixed: 18-Jul-2024 Balance: 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
 gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.


Catalog No. : 555224 Lot No.: A0214017
 Description : Custom 8270 Plus Standard #2
 Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Expiration Date : July 31, 2026 Storage: 10°C or colder
 Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
 CAS # 75-09-2
 Purity 99%

S12509 } RC/
 ↓
 S12568 } 7/24/24


 Jess Hoy - Operations Tech I Date Mixed: 18-Jul-2024 Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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.: Z-110816-01	Lot No.: 414127	Storage: ≤ -10 °C	Solvent: Methylene Chloride	Exp. Date: 6/21/2025	Description: Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL
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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


~~512280~~ } RCL
 ↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
 ↓
 512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: 
 Shane Overcash
 Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: 1-814-353-1300
 Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
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.:** A0219438
Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : September 30, 2025 **Storage:** 0°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 } AC
 ↓
 S12992 } 12/17/20

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%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/-	36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/-	36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/-	36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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SHIPPING DOCUMENTS

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CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q1347

COC Number:

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT PO#	
ADDRESS: 4433 Corporation Lane Suite 300		PROJECT #: 112G08005-WE13 LOCATION: VPB-192		ADDRESS:	
CITY: Virginia Beach	STATE: VA ZIP: 23462	PROJECT MANAGER: Ernie Wu		CITY:	STATE: ZIP:
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:	
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148			

DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS									COMMENTS		
FAX: _____ 10 _____ DAYS*	HARD COPY: _____ 10 _____ DAYS*	<input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New Jersey CLP <input type="checkbox"/> EDD Format _____	<input type="checkbox"/> USEPA CLP <input type="checkbox"/> New York State ASP "B" <input type="checkbox"/> New York State ASP "A" <input type="checkbox"/> Other _____	VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)	1	2	3	4	5	6	7		8	9
* TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS				PRESERVATIVES											

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A	1	2	3	4	5	6	7	8		9
1.	BP-VPB-192-EB-20250207	QA		X	2/7/25	8:30	3	2	1									
2.	BP-VPB-192-TB-20250206	QA		X	2/6/25	9:00	2	2										Trip blank
3.	BP-VPB-192-GW-710-712	AQ		X	2/10/25	11:10	2	2	1									
4.	BP-VPB-192-GW-640-642	AQ		X	2/6/25	9:30	2	2										
5.	BP-VPB-192-GW-660-662	AQ		X	2/6/25	12:02	5	4	1									Extra 8260B
6.	BP-VPB-192-GW-680-682	AQ		X	2/6/25	14:20	2	2										
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp <u>28</u> MeOH extraction requires an additional 4oz. Jar for percent solid Comments: Standard TAT q Ice in Cooler?: _____
1. <u>[Signature]</u>	2/10/25 ¹⁵³⁰	1. <u>[Signature]</u> ¹⁵³⁰	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2. <u>[Signature]</u>		2. <u>[Signature]</u>	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3. <u>[Signature]</u>	2/10/25	3. <u>[Signature]</u>	

Page 1 of 1 SHIPPED VIA: CLIENT: Hand Delivered Overnight
CHEMTECH: Picked Up Overnight

Shipment Complete
 YES NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

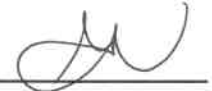
Order ID : Q1347	TETR06	Order Date : 2/10/2025 3:45:00 PM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : CTO WE13	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 2/10/2025 12:00:00 AM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order : 18:18	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff :


LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1347-01	BP-VPB-192-EB-20250207	Water	02/07/2025	08:30		VOCMS Group1	8260-Low		10 Bus. Days
Q1347-02	BP-VPB-192-TB-20250206	Water	02/06/2025	09:00		VOCMS Group1	8260-Low		10 Bus. Days
Q1347-03	BP-VPB-192-GW-710-712	Water	02/10/2025	11:10		VOCMS Group1	8260-Low		10 Bus. Days
Q1347-04	BP-VPB-192-GW-640-642	Water	02/06/2025	09:30		VOCMS Group1	8260-Low		10 Bus. Days
Q1347-05	BP-VPB-192-GW-660-662	Water	02/06/2025	12:02		VOCMS Group1	8260-Low		10 Bus. Days
Q1347-06	BP-VPB-192-GW-680-682	Water	02/06/2025	14:20		VOCMS Group1	8260-Low		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1347 TETR06	Order Date : 2/10/2025 3:45:00 PM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.	Project Name : CTO WE13	Report Type : Level 4
Client Contact : Ernie Wu	Receive DateTime : 2/10/2025 12:00:00 AM 18:18	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.	Purchase Order :	Hard Copy Date :
Invoice Contact : Ernie Wu		Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By : 
Date / Time : 2/11/25 0800

Received By : 
Date / Time : 02/11/25 08:00 Rg 4

Storage Area : VOA Refridgerator Room

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036455.D
 Acq On : 13 Feb 2025 00:11
 Operator : RC/JU
 Sample : PB166675BSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

Quant Time: Feb 13 00:42:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

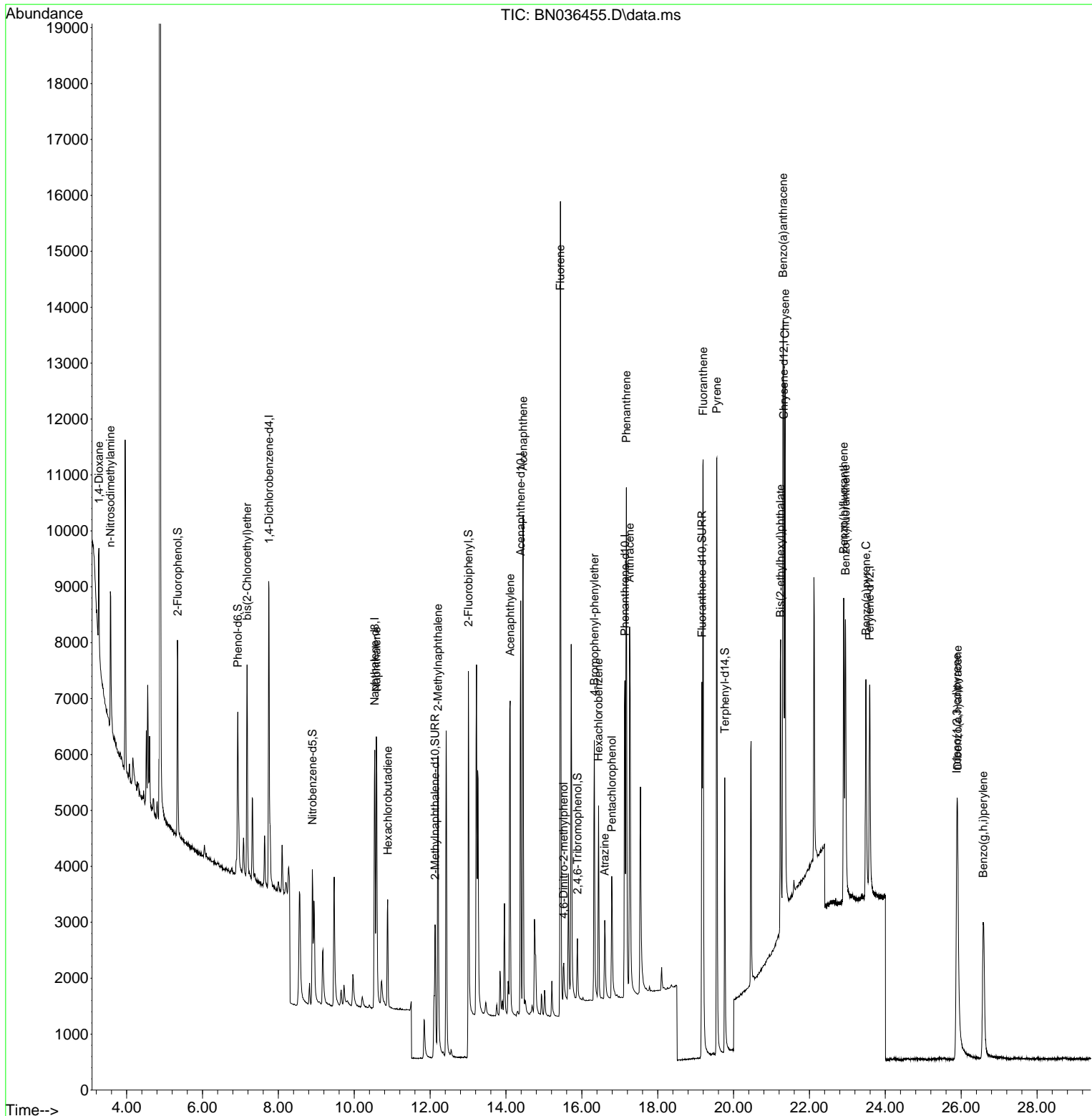
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2803	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6953	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.387	164	4239	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	9433	0.400	ng	# 0.00	
29) Chrysene-d12	21.322	240	6681	0.400	ng	0.00	
35) Perylene-d12	23.589	264	5828	0.400	ng	# 0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	2615	0.395	ng	0.00	
5) Phenol-d6	6.930	99	2982	0.384	ng	0.00	
8) Nitrobenzene-d5	8.897	82	2342	0.341	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	5981	0.560	ng	-0.01	
14) 2,4,6-Tribromophenol	15.882	330	658	0.313	ng	0.00	
15) 2-Fluorobiphenyl	13.008	172	6074	0.381	ng	-0.01	
27) Fluoranthene-d10	19.164	212	8652	0.330	ng	0.00	
31) Terphenyl-d14	19.768	244	5925	0.415	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	922	0.301	ng	# 69	Qvalue
3) n-Nitrosodimethylamine	3.572	42	1831	0.344	ng	93	
6) bis(2-Chloroethyl)ether	7.175	93	2923	0.360	ng	99	
9) Naphthalene	10.584	128	7093	0.354	ng	100	
10) Hexachlorobutadiene	10.882	225	1695	0.347	ng	# 100	
12) 2-Methylnaphthalene	12.207	142	4591	0.349	ng	99	
16) Acenaphthylene	14.110	152	7183	0.384	ng	99	
17) Acenaphthene	14.452	154	4578	0.366	ng	99	
18) Fluorene	15.435	166	6496	0.365	ng	100	
20) 4,6-Dinitro-2-methylph...	15.522	198	572	0.309	ng	85	
21) 4-Bromophenyl-phenylether	16.329	248	1996	0.355	ng	# 85	
22) Hexachlorobenzene	16.441	284	2519	0.362	ng	98	
23) Atrazine	16.602	200	1659	0.353	ng	94	
24) Pentachlorophenol	16.788	266	1375	0.417	ng	99	
25) Phenanthrene	17.173	178	10071	0.369	ng	100	
26) Anthracene	17.260	178	9213	0.383	ng	100	
28) Fluoranthene	19.197	202	11075	0.331	ng	100	
30) Pyrene	19.559	202	11367	0.442	ng	99	
32) Benzo(a)anthracene	21.304	228	8431	0.383	ng	99	
33) Chrysene	21.357	228	9478	0.398	ng	98	
34) Bis(2-ethylhexyl)phtha...	21.232	149	5132	0.375	ng	99	
36) Indeno(1,2,3-cd)pyrene	25.884	276	7446	0.366	ng	98	
37) Benzo(b)fluoranthene	22.902	252	7169	0.374	ng	# 93	
38) Benzo(k)fluoranthene	22.949	252	8031	0.407	ng	# 93	
39) Benzo(a)pyrene	23.490	252	6762	0.404	ng	# 94	
40) Dibenzo(a,h)anthracene	25.905	278	5905	0.367	ng	97	
41) Benzo(g,h,i)perylene	26.580	276	2762	0.152	ng	97	

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

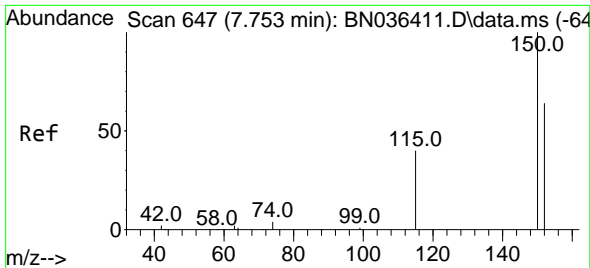
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 Data File : BN036455.D
 Acq On : 13 Feb 2025 00:11
 Operator : RC/JU
 Sample : PB166675BSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

Quant Time: Feb 13 00:42:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

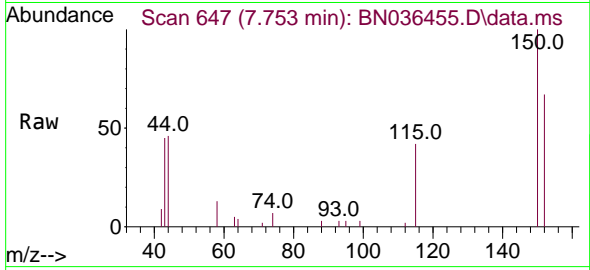


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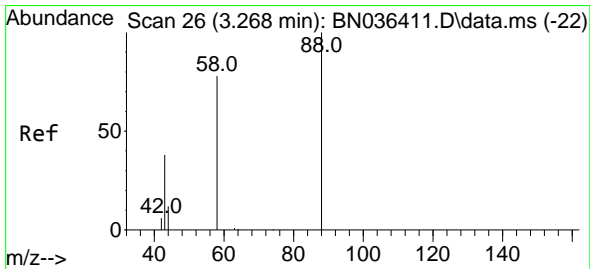
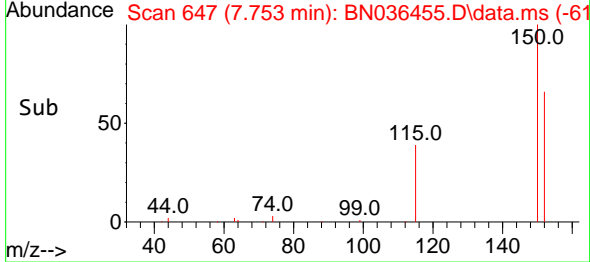
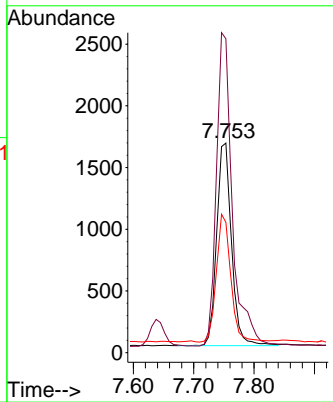


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

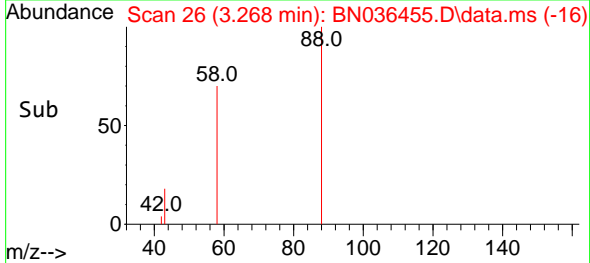
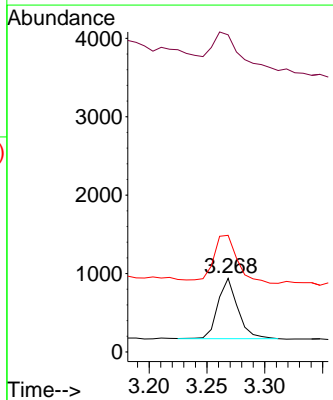
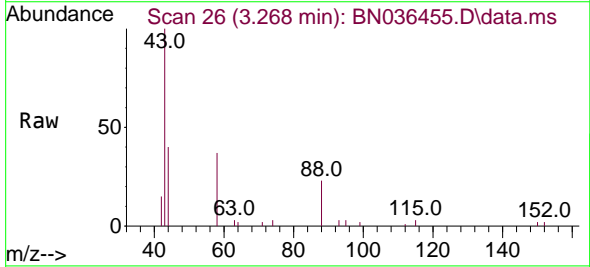


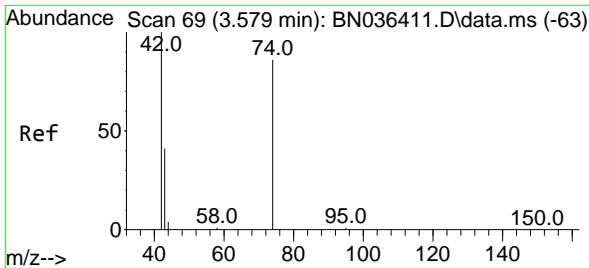
Tgt Ion:152 Resp: 2803
 Ion Ratio Lower Upper
 152 100
 150 149.7 123.7 185.5
 115 62.2 52.5 78.7



#2
 1,4-Dioxane
 Concen: 0.301 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion: 88 Resp: 922
 Ion Ratio Lower Upper
 88 100
 43 85.4 33.7 50.5#
 58 97.2 68.9 103.3

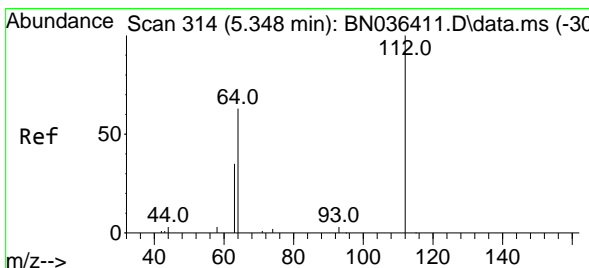
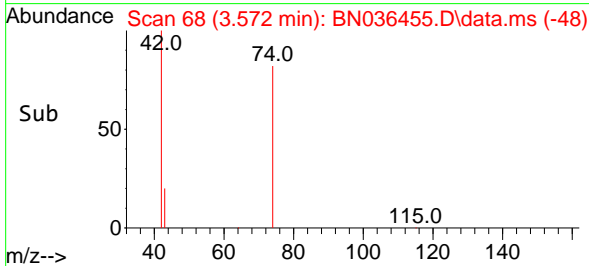
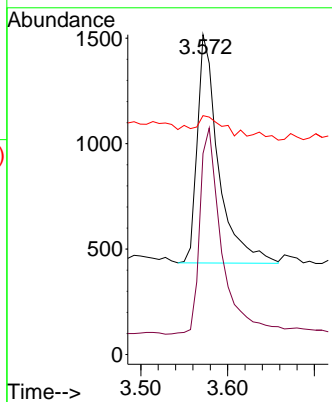
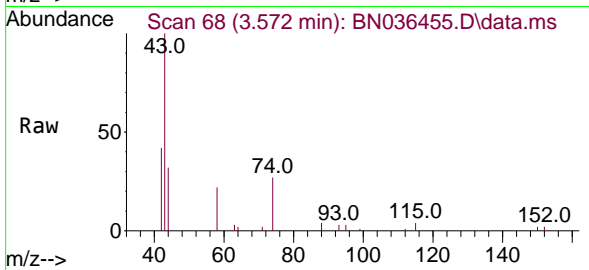




#3
 n-Nitrosodimethylamine
 Concen: 0.344 ng
 RT: 3.572 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

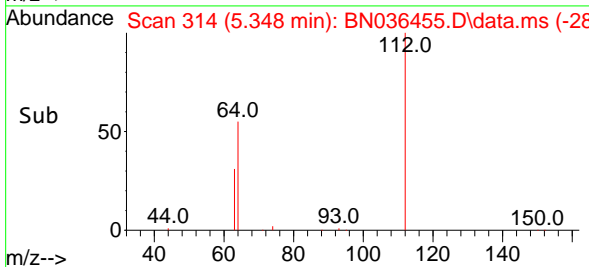
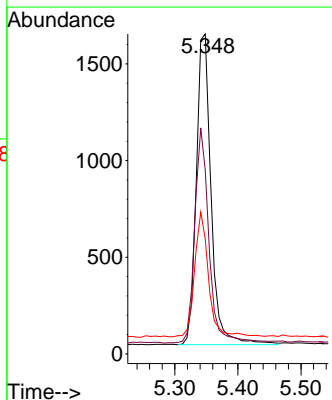
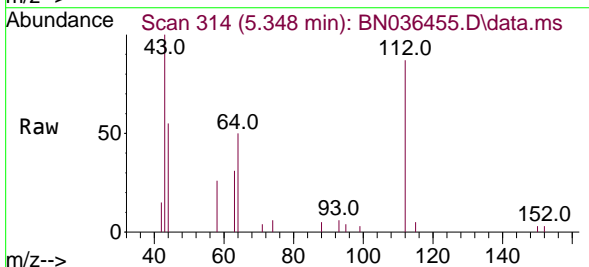
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

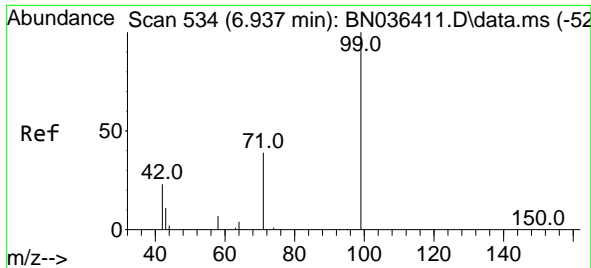
Tgt Ion: 42 Resp: 1831
 Ion Ratio Lower Upper
 42 100
 74 97.2 71.8 107.6
 44 8.5 7.8 11.6



#4
 2-Fluorophenol
 Concen: 0.395 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion: 112 Resp: 2615
 Ion Ratio Lower Upper
 112 100
 64 66.7 53.4 80.0
 63 38.0 30.3 45.5

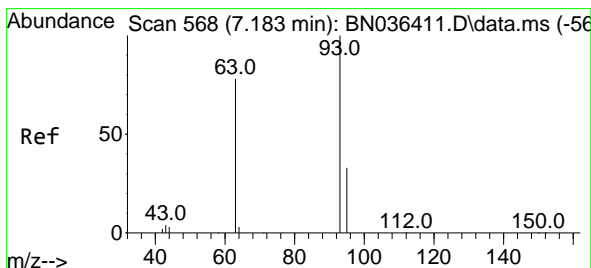
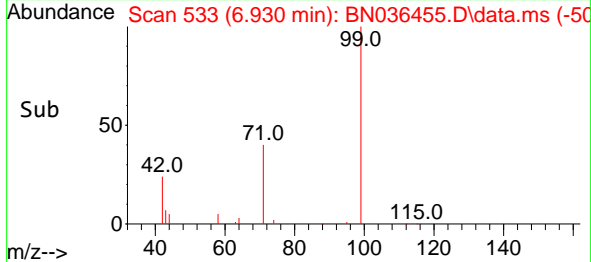
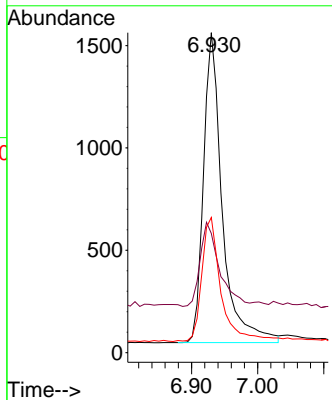
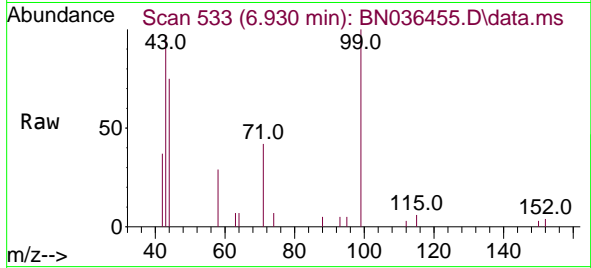




#5
 Phenol-d6
 Concen: 0.384 ng
 RT: 6.930 min Scan# 511
 Delta R.T. -0.007 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

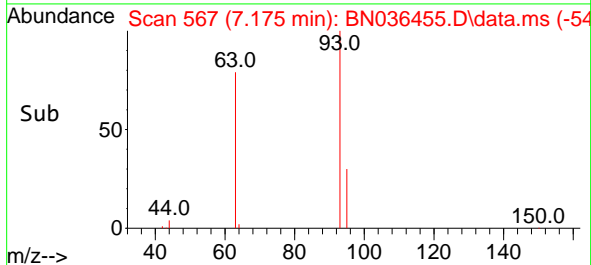
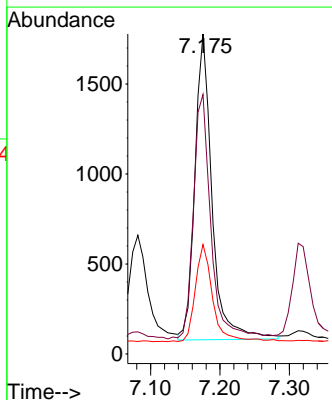
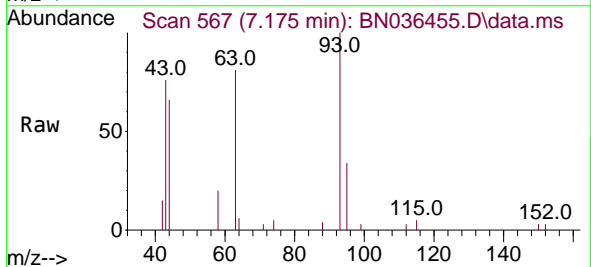
Instrument :
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 ClientSampleId :
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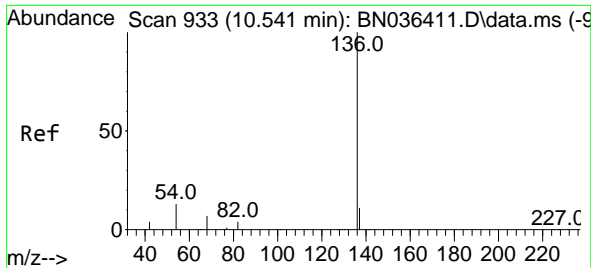
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	2982	100		
42		27.9	21.7	32.5
71		42.4	32.6	49.0



#6
 bis(2-Chloroethyl)ether
 Concen: 0.360 ng
 RT: 7.175 min Scan# 567
 Delta R.T. -0.007 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	2923	100		
63		82.1	66.3	99.5
95		32.0	26.2	39.4



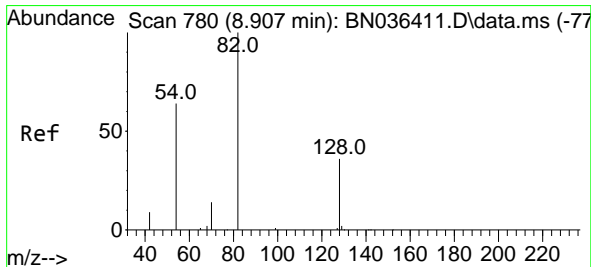
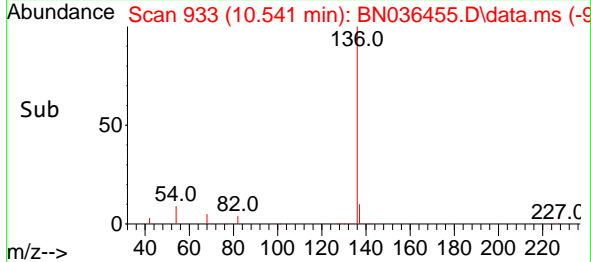
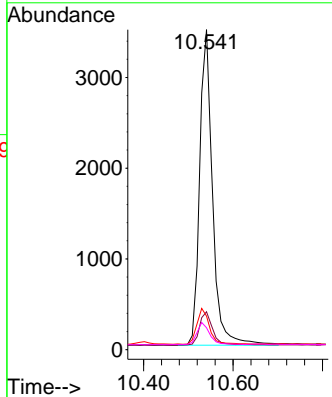
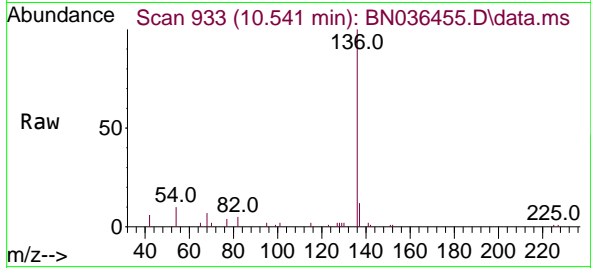


#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

Tgt Ion:136 Resp: 6953

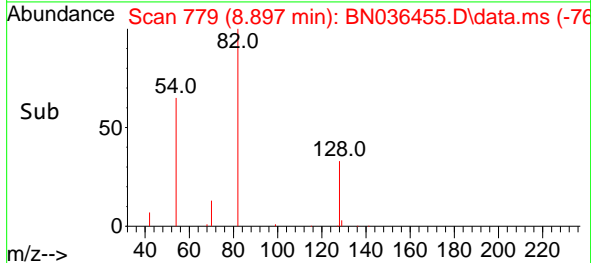
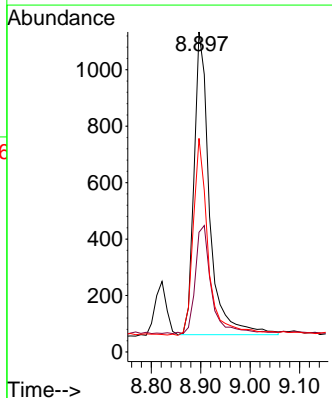
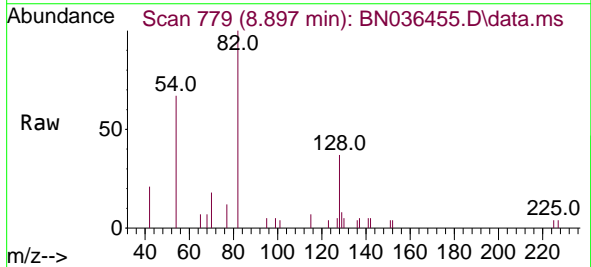
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	10.5	11.8	17.6#
68	6.9	7.2	10.8#

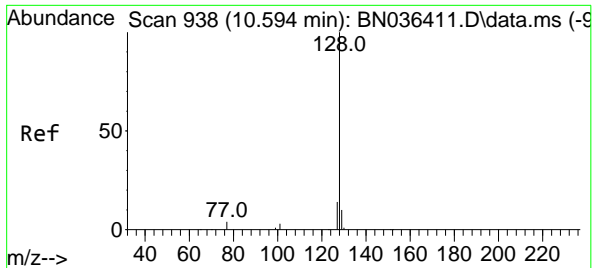


#8
 Nitrobenzene-d5
 Concen: 0.341 ng
 RT: 8.897 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion: 82 Resp: 2342

Ion	Ratio	Lower	Upper
82	100		
128	37.4	31.9	47.9
54	66.8	53.1	79.7



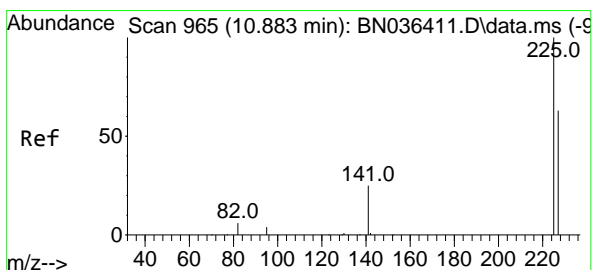
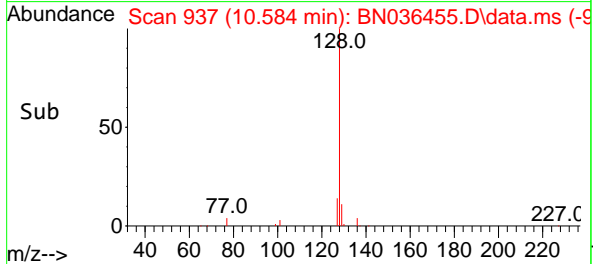
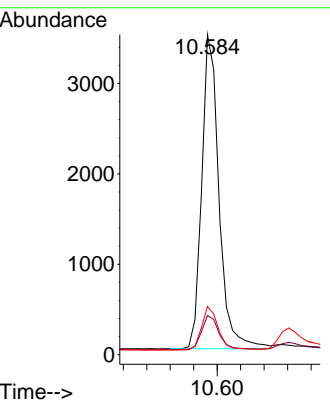
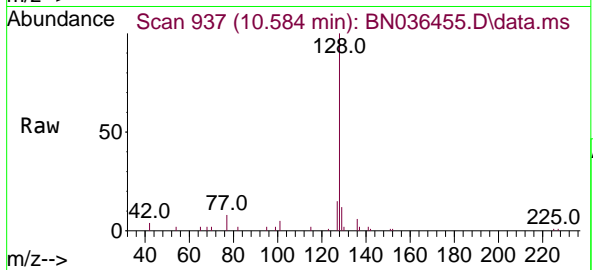


#9
 Naphthalene
 Concen: 0.354 ng
 RT: 10.584 min Scan# 911
 Delta R.T. -0.011 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument : BNA_N
 ClientSampleId : PB166675BSD

Tgt Ion:128 Resp: 7093

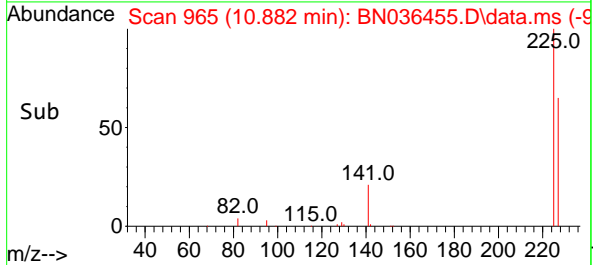
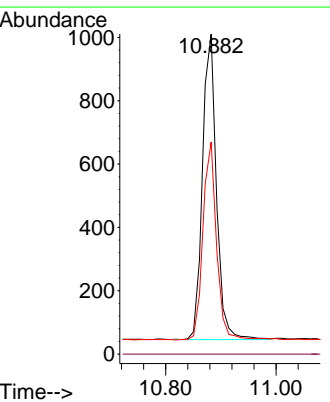
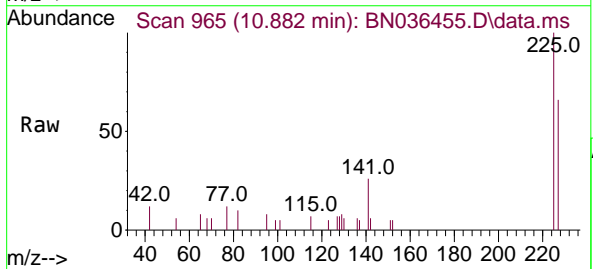
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.6	14.4
127	15.1	12.0	18.0

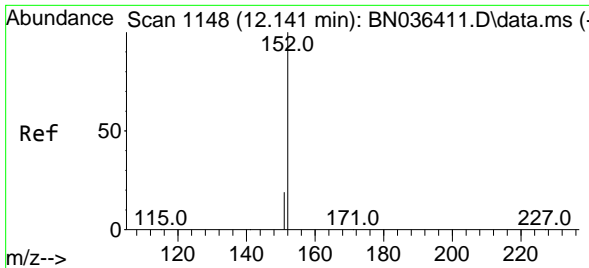


#10
 Hexachlorobutadiene
 Concen: 0.347 ng
 RT: 10.882 min Scan# 965
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion:225 Resp: 1695

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.9	76.3

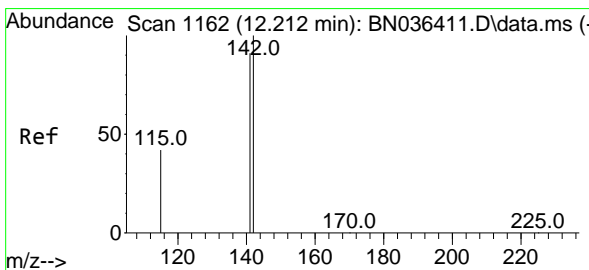
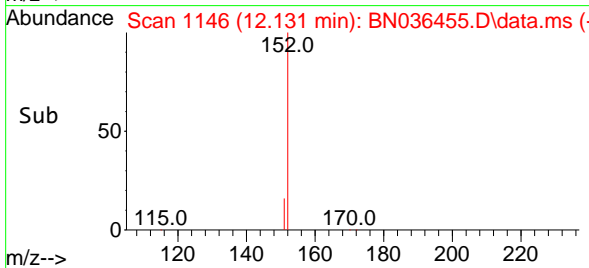
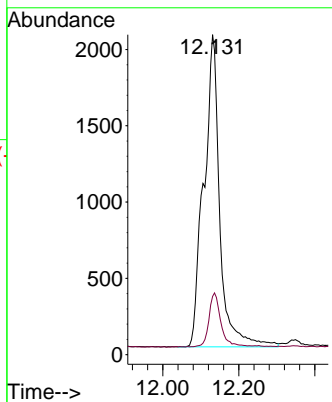
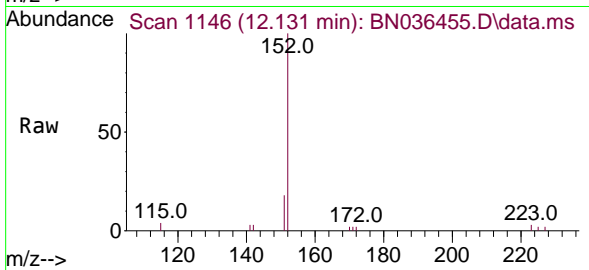




#11
 2-Methylnaphthalene-d10
 Concen: 0.560 ng
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

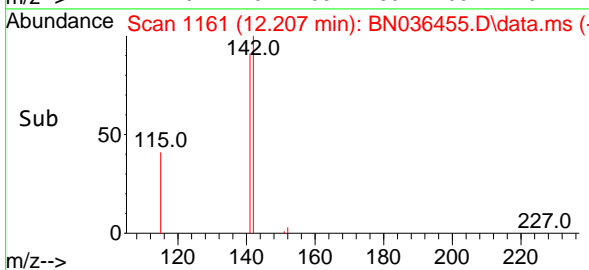
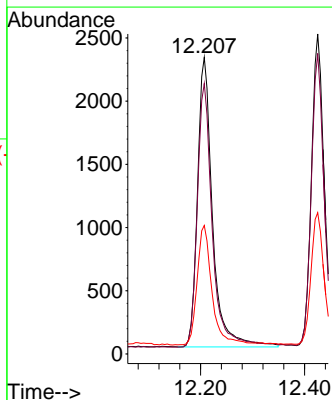
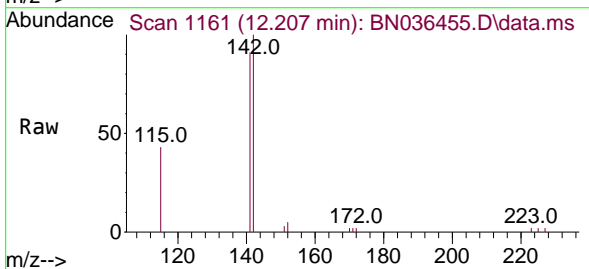
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

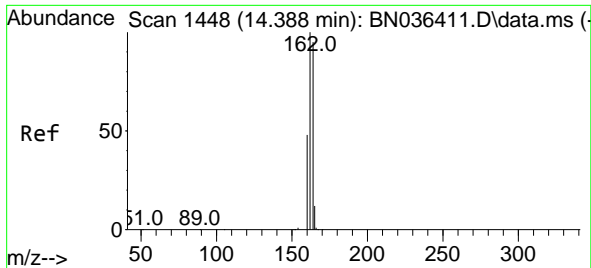
Tgt Ion:152 Resp: 5981
 Ion Ratio Lower Upper
 152 100
 151 13.0 16.6 25.0#



#12
 2-Methylnaphthalene
 Concen: 0.349 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion:142 Resp: 4591
 Ion Ratio Lower Upper
 142 100
 141 91.2 72.8 109.2
 115 43.3 35.5 53.3



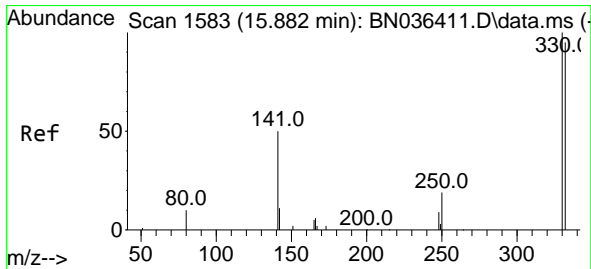
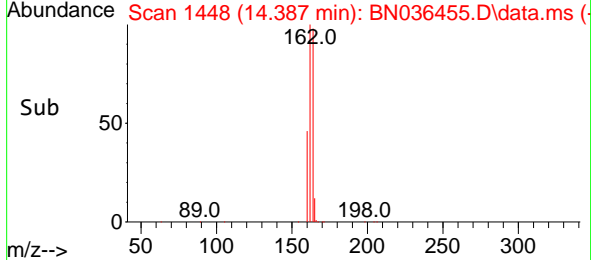
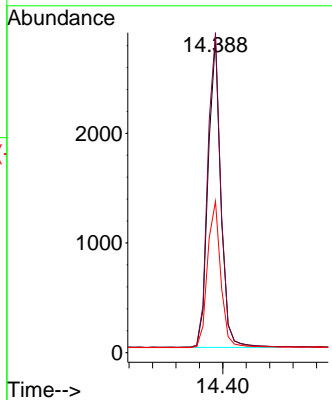
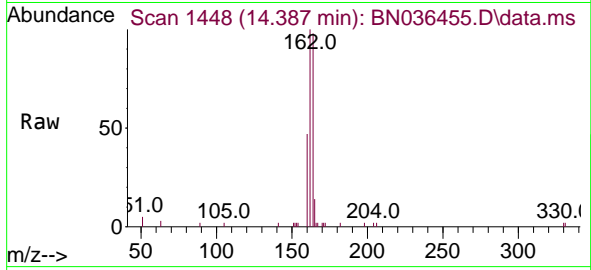


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

Tgt Ion:164 Resp: 4239

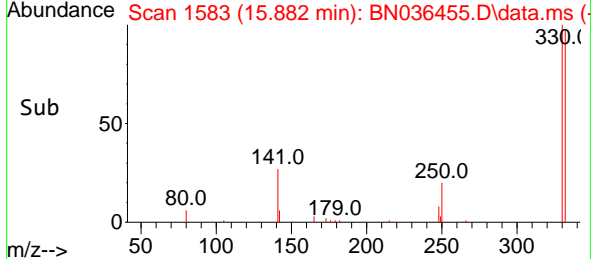
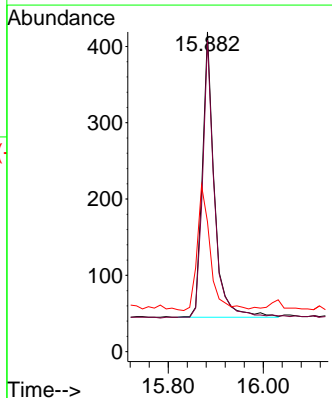
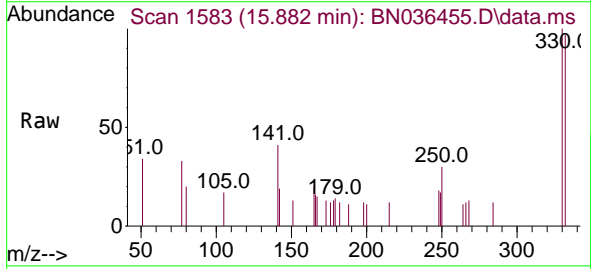
Ion	Ratio	Lower	Upper
164	100		
162	101.8	84.1	126.1
160	48.2	41.4	62.0

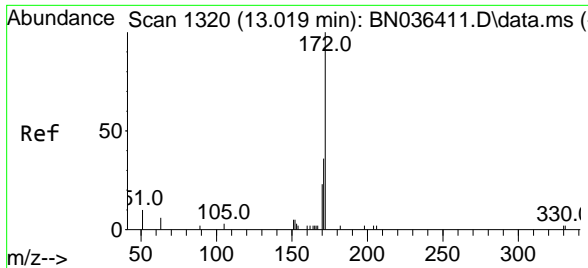


#14
 2,4,6-Tribromophenol
 Concen: 0.313 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion:330 Resp: 658

Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.6	114.8
141	47.7	37.8	56.8



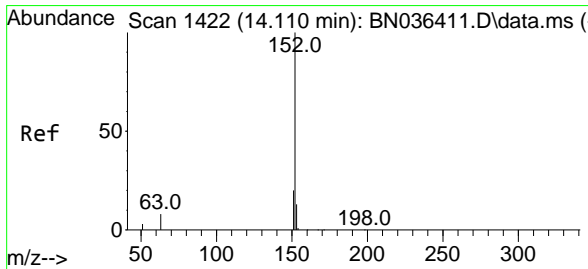
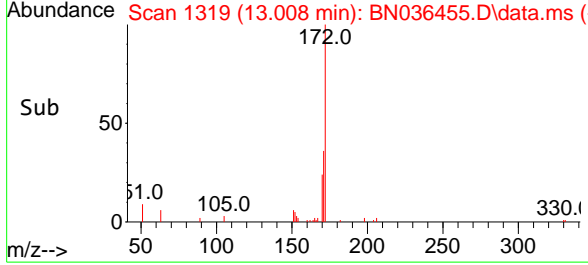
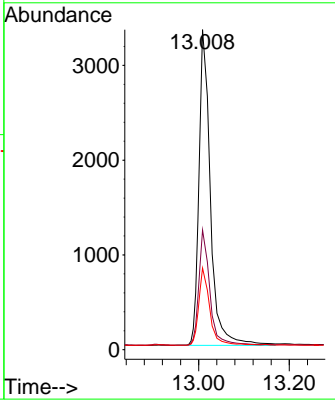
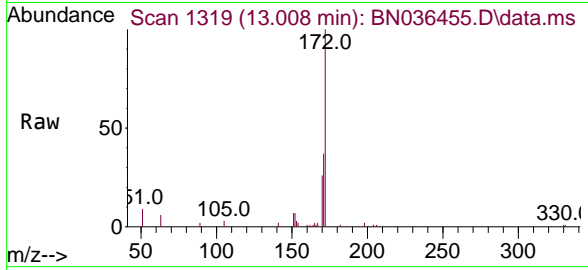


#15
 2-Fluorobiphenyl
 Concen: 0.381 ng
 RT: 13.008 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument : BNA_N
 ClientSampleId : PB166675BSD

Tgt Ion:172 Resp: 6074

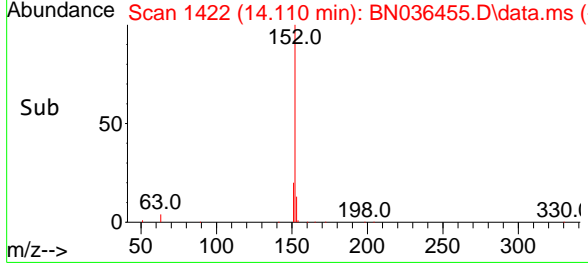
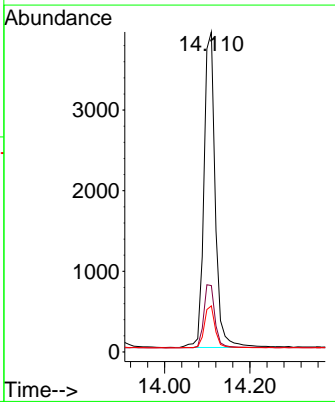
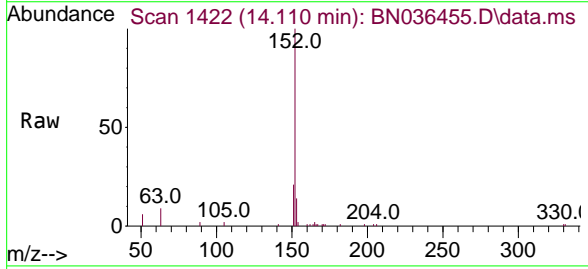
Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.6	44.4
170	25.5	19.8	29.6

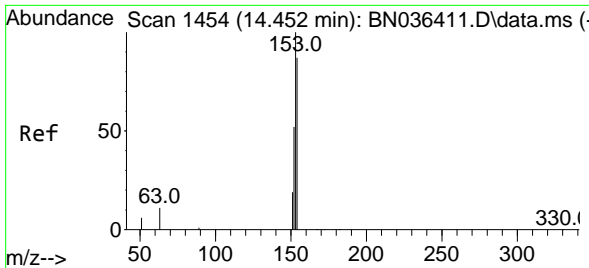


#16
 Acenaphthylene
 Concen: 0.384 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion:152 Resp: 7183

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.8
153	12.8	10.2	15.2



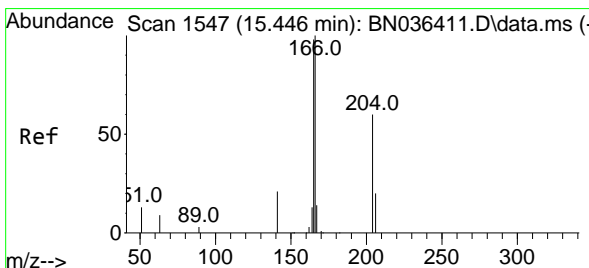
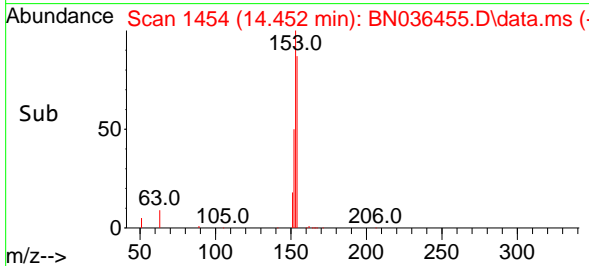
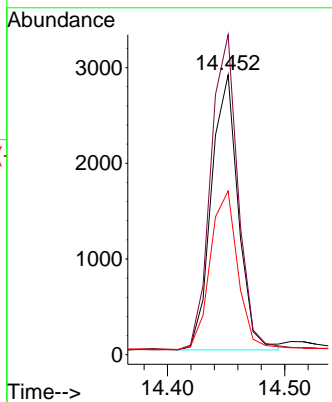
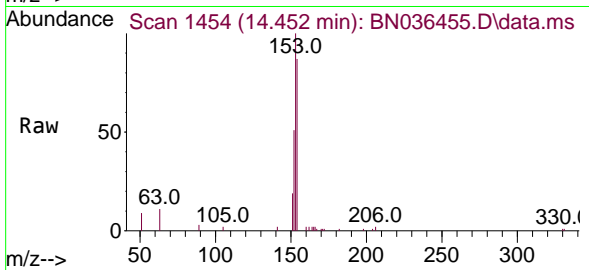


#17
 Acenaphthene
 Concen: 0.366 ng
 RT: 14.452 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

Tgt Ion:154 Resp: 4578

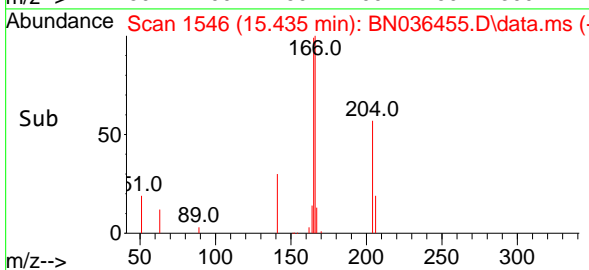
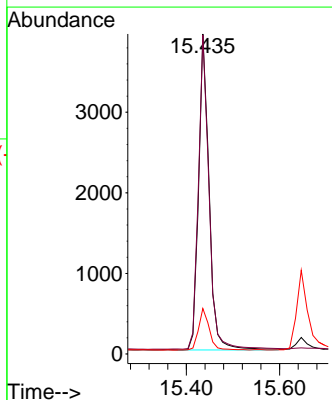
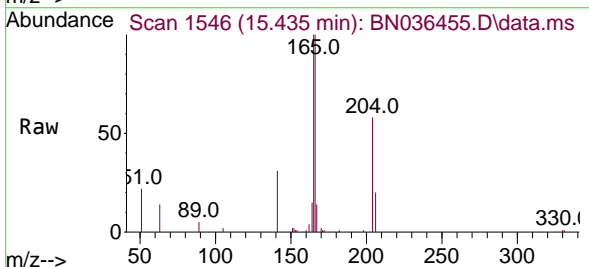
Ion	Ratio	Lower	Upper
154	100		
153	117.5	93.3	139.9
152	59.7	48.8	73.2

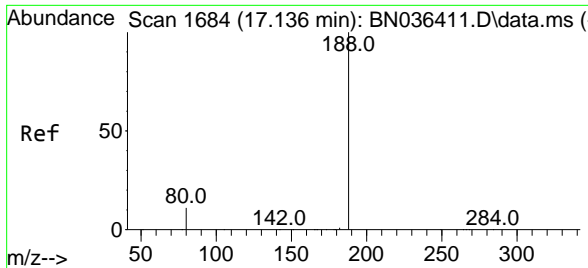


#18
 Fluorene
 Concen: 0.365 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion:166 Resp: 6496

Ion	Ratio	Lower	Upper
166	100		
165	99.2	79.5	119.3
167	13.1	10.4	15.6

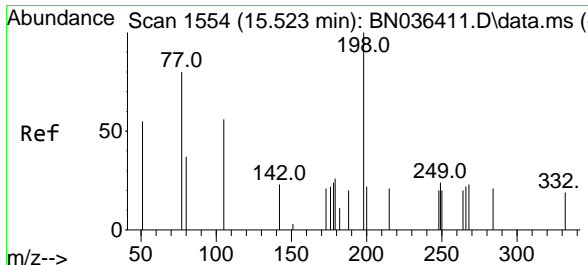
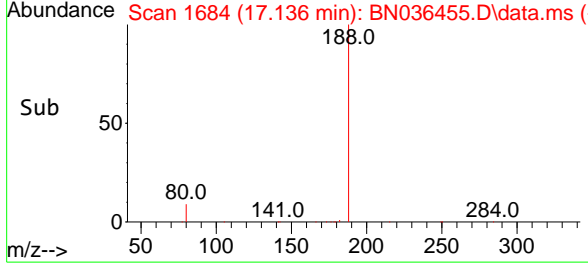
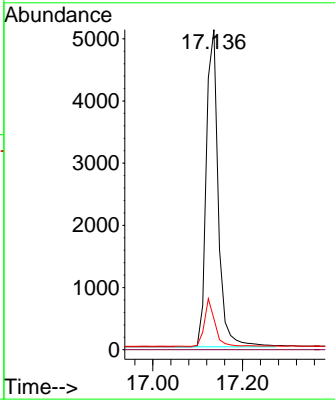
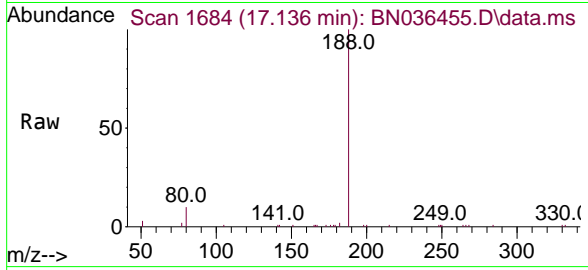




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

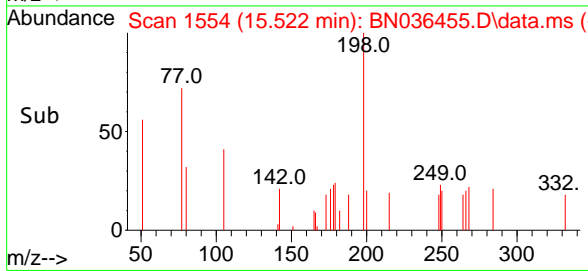
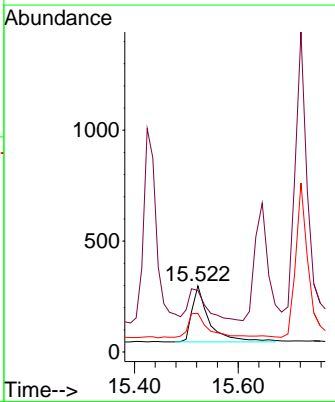
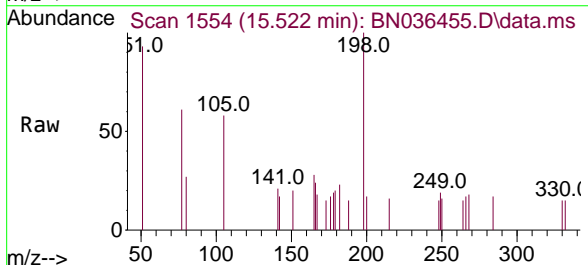
Instrument : BNA_N
 ClientSampleId : PB166675BSD

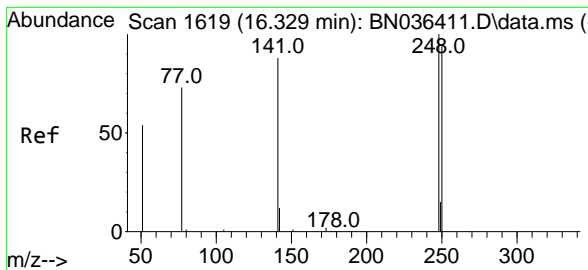
Tgt Ion	Resp	Lower	Upper
188	9433		
94	0.0	0.0	0.0
80	9.6	9.8	14.6



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.309 ng
 RT: 15.522 min Scan# 1554
 Delta R.T. -0.001 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion	Resp	Lower	Upper
198	572		
51	93.0	86.6	129.8
105	58.4	57.5	86.3

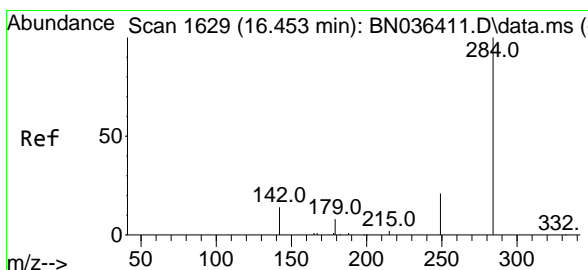
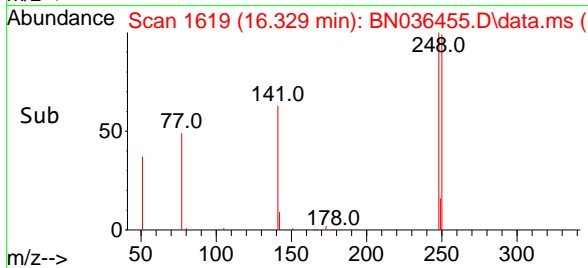
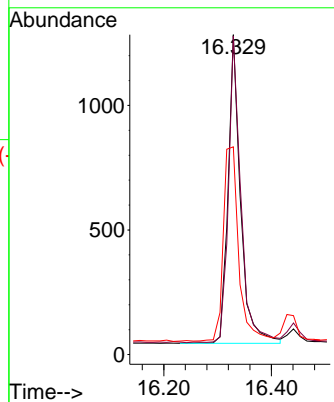
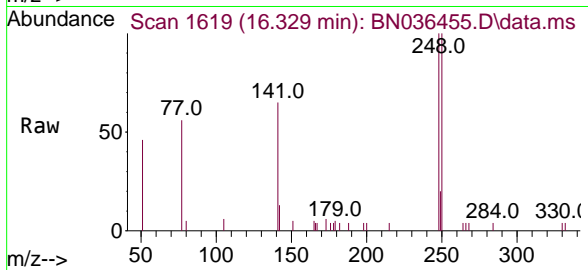




#21
 4-Bromophenyl-phenylether
 Concen: 0.355 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

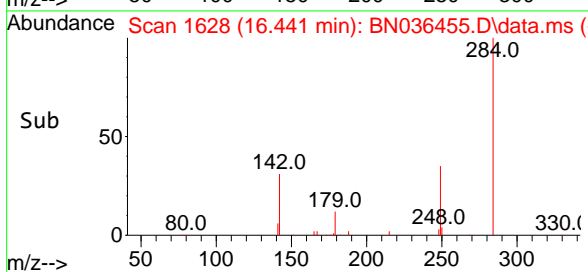
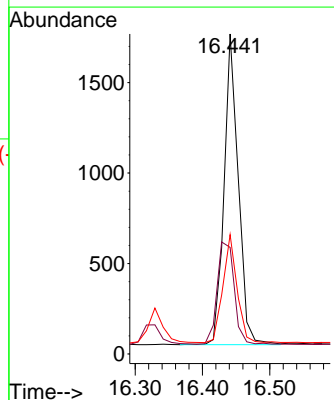
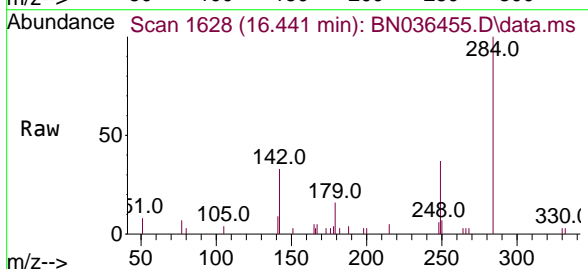
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

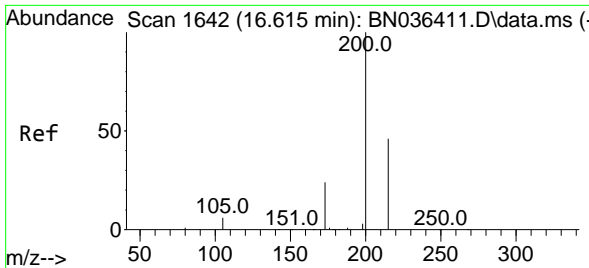
Tgt Ion:248 Resp: 1996
 Ion Ratio Lower Upper
 248 100
 250 99.6 76.1 114.1
 141 65.0 71.7 107.5#



#22
 Hexachlorobenzene
 Concen: 0.362 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

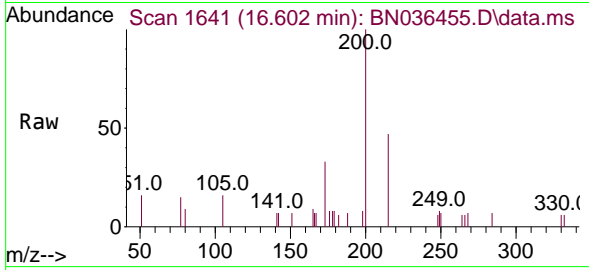
Tgt Ion:284 Resp: 2519
 Ion Ratio Lower Upper
 284 100
 142 40.0 33.4 50.0
 249 35.1 28.6 43.0



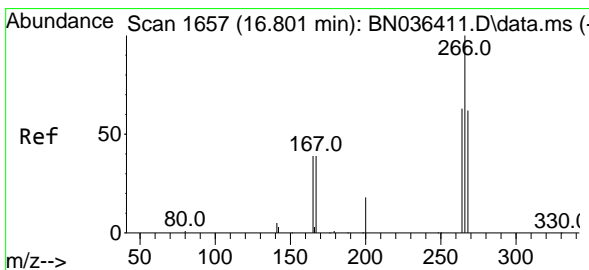
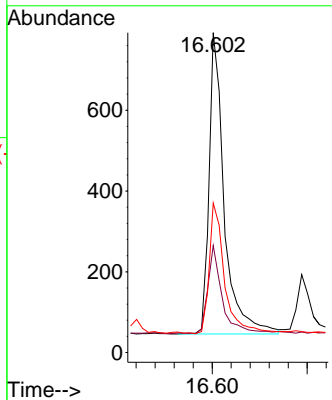
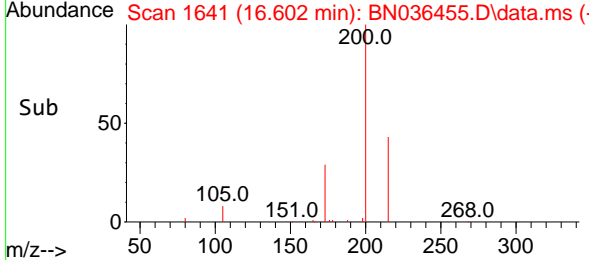


#23
 Atrazine
 Concen: 0.353 ng
 RT: 16.602 min Scan# 1641
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

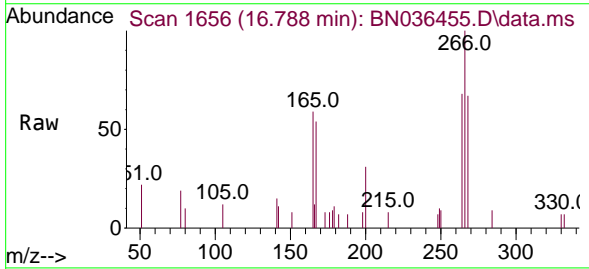
Instrument : BNA_N
 ClientSampleId : PB166675BSD



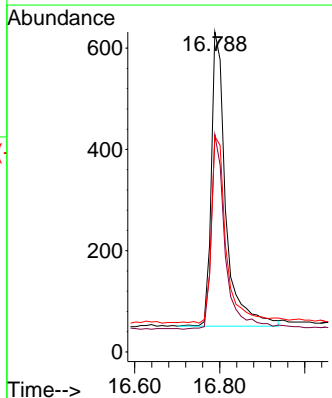
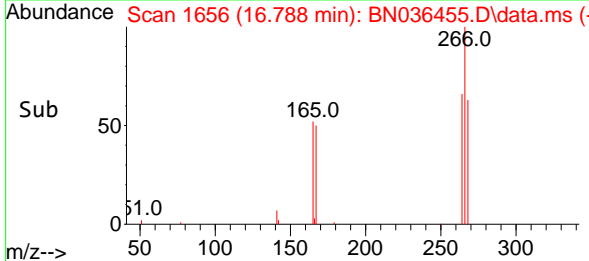
Tgt Ion: 200 Resp: 1659
 Ion Ratio Lower Upper
 200 100
 173 33.5 23.2 34.8
 215 46.7 40.0 60.0

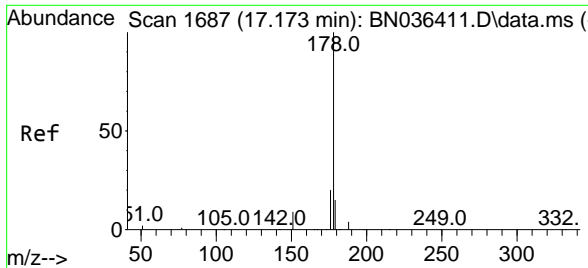


#24
 Pentachlorophenol
 Concen: 0.417 ng
 RT: 16.788 min Scan# 1656
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion: 266 Resp: 1375
 Ion Ratio Lower Upper
 266 100
 264 64.6 50.6 76.0
 268 64.7 51.9 77.9

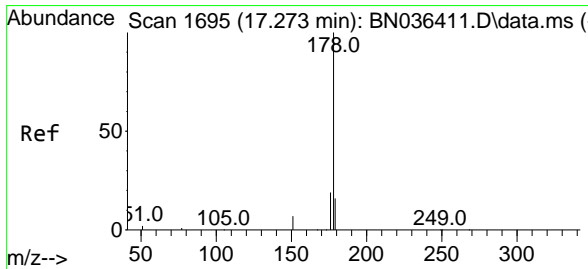
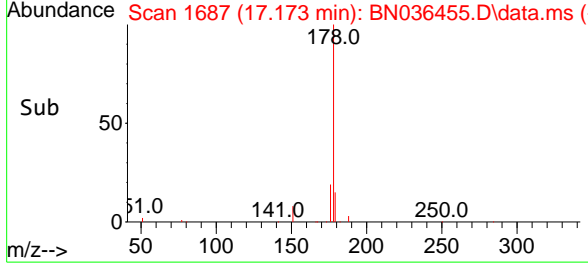
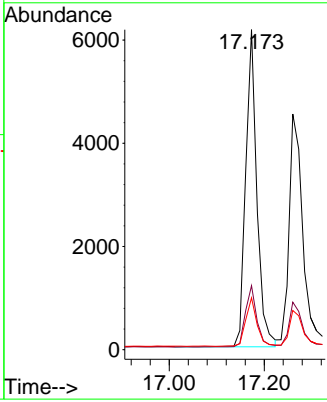
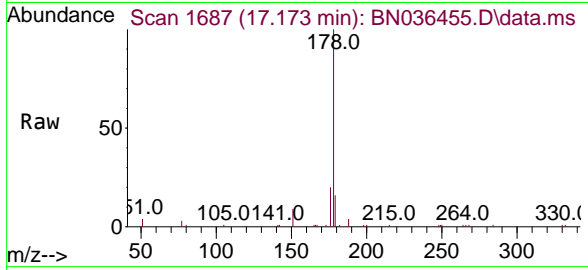




#25
 Phenanthrene
 Concen: 0.369 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

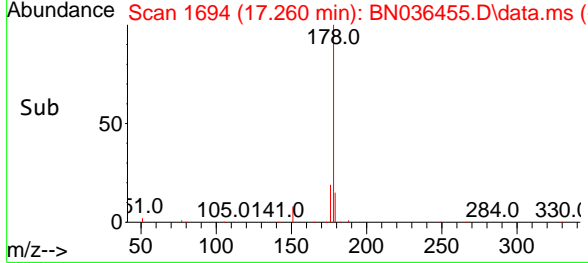
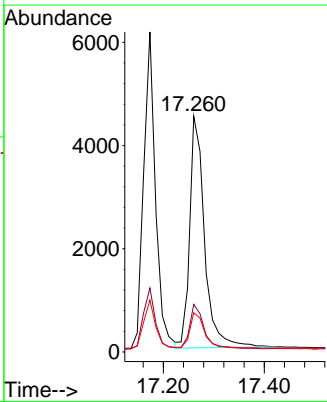
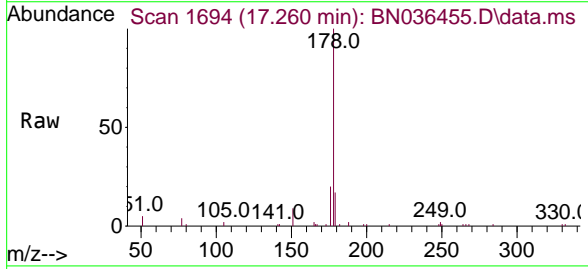
Instrument : BNA_N
 Client Sample Id : PB166675BSD

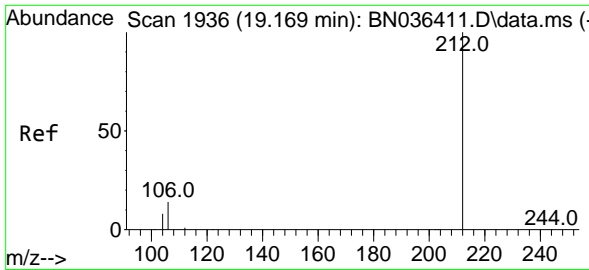
Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	10071	100		
176	19.7	15.7	15.7	23.5
179	15.5	12.4	12.4	18.6



#26
 Anthracene
 Concen: 0.383 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

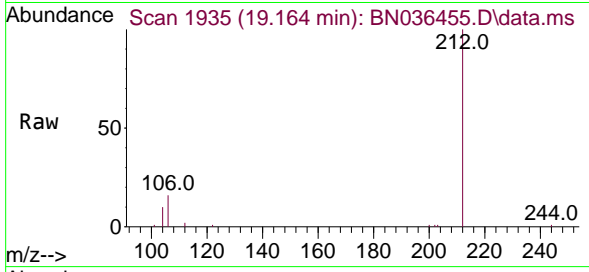
Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	9213	100		
176	18.5	14.9	14.9	22.3
179	15.3	12.4	12.4	18.6



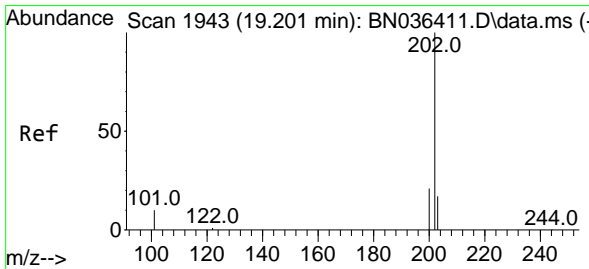
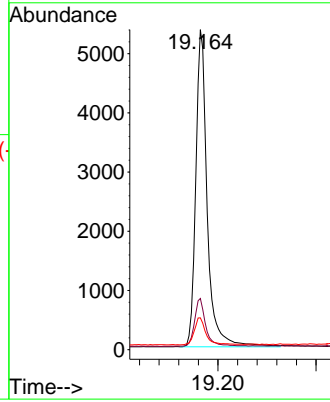
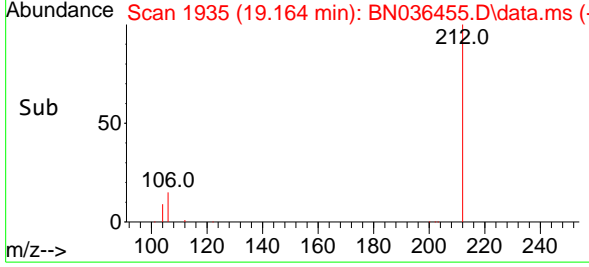


#27
 Fluoranthene-d10
 Concen: 0.330 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

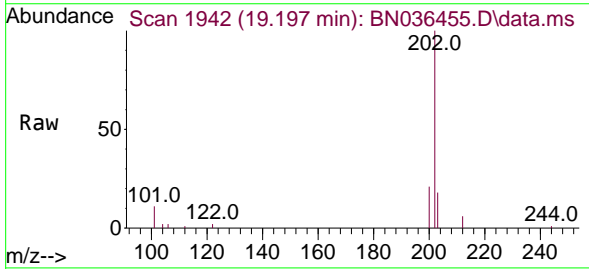
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



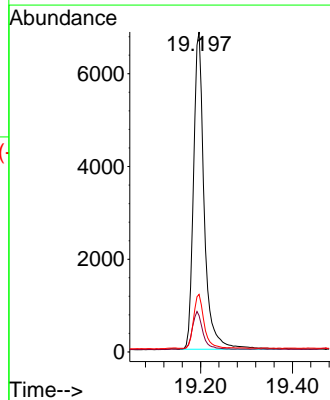
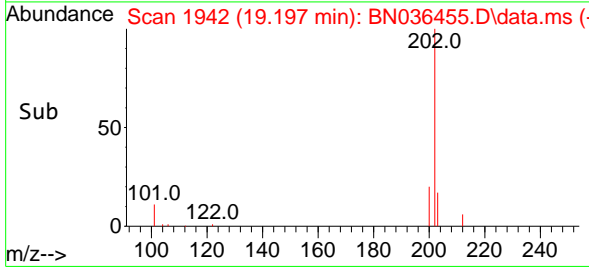
Tgt Ion:212 Resp: 8652
 Ion Ratio Lower Upper
 212 100
 106 14.6 11.5 17.3
 104 8.6 7.1 10.7

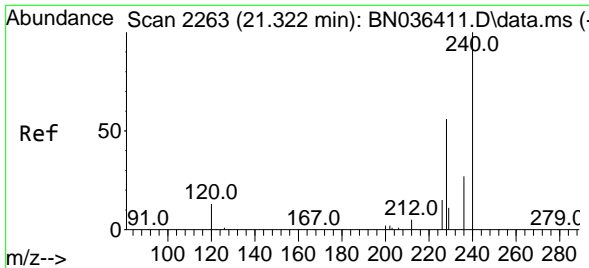


#28
 Fluoranthene
 Concen: 0.331 ng
 RT: 19.197 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion:202 Resp: 11075
 Ion Ratio Lower Upper
 202 100
 101 11.4 9.2 13.8
 203 16.8 13.4 20.0



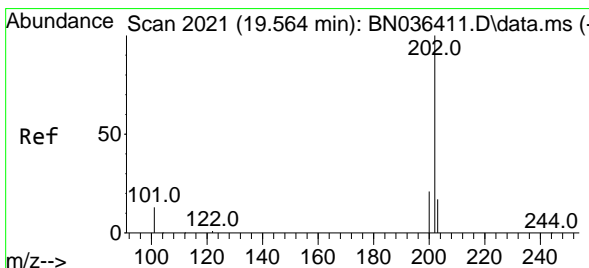
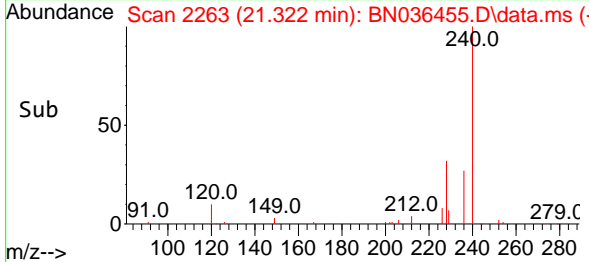
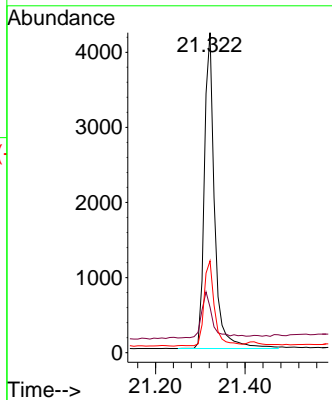
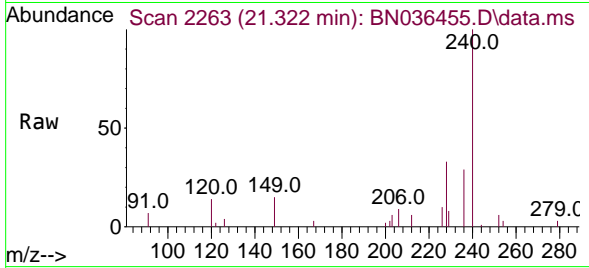


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.322 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

Tgt Ion:240 Resp: 6681

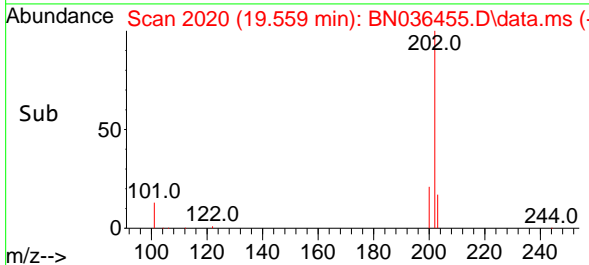
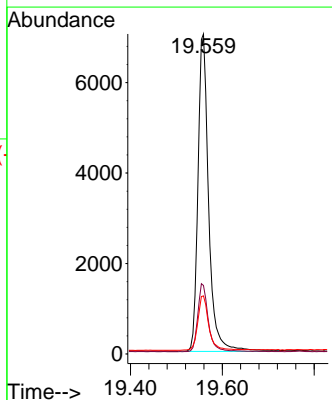
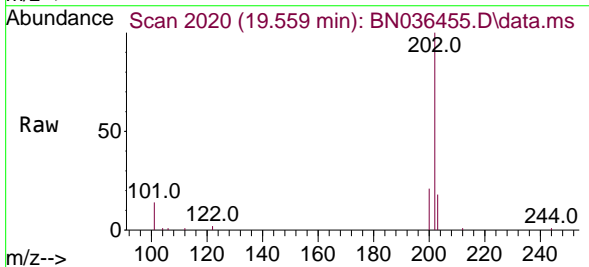
Ion	Ratio	Lower	Upper
240	100		
120	14.2	13.3	19.9
236	28.7	23.0	34.6

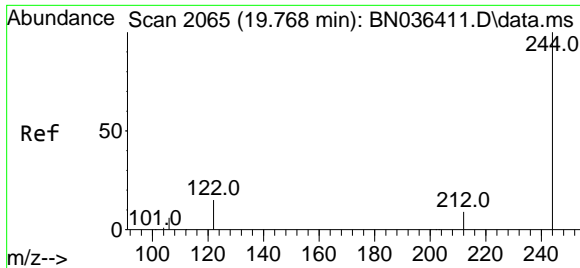


#30
 Pyrene
 Concen: 0.442 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion:202 Resp: 11367

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.9	13.9	20.9

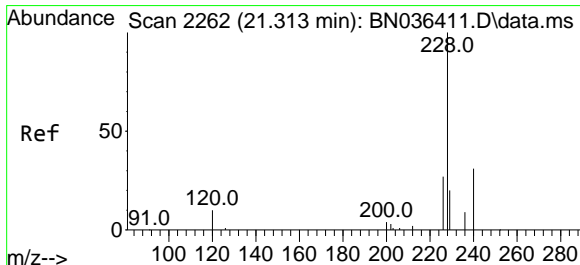
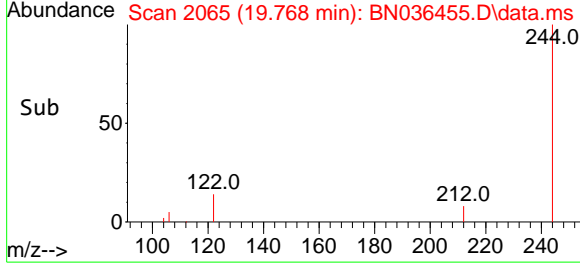
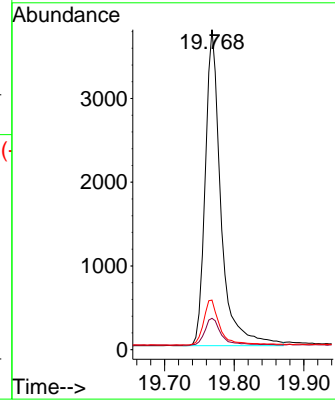
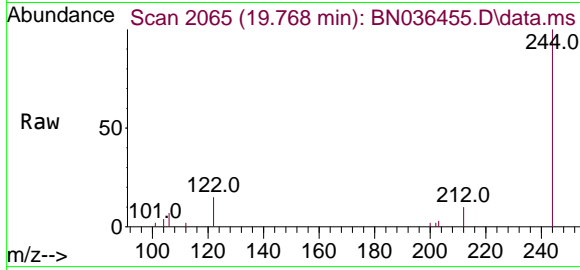




#31
 Terphenyl-d14
 Concen: 0.415 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

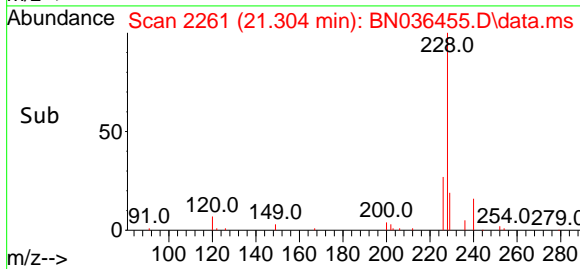
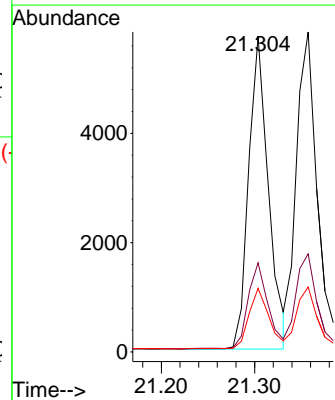
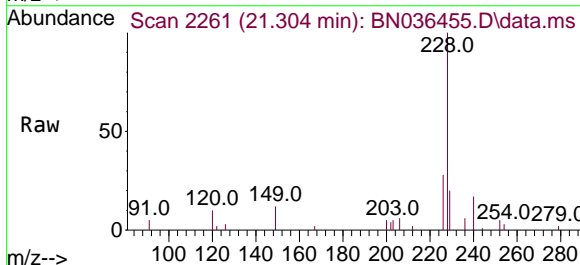
Instrument : BNA_N
 ClientSampleId : PB166675BSD

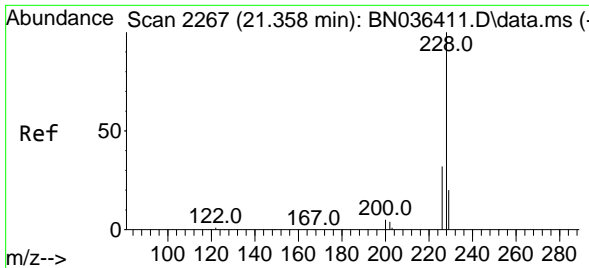
Tgt Ion	Resp	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	15.5	12.8	19.2



#32
 Benzo(a)anthracene
 Concen: 0.383 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion	Resp	Lower	Upper
228	100		
226	28.2	22.2	33.2
229	20.1	16.5	24.7



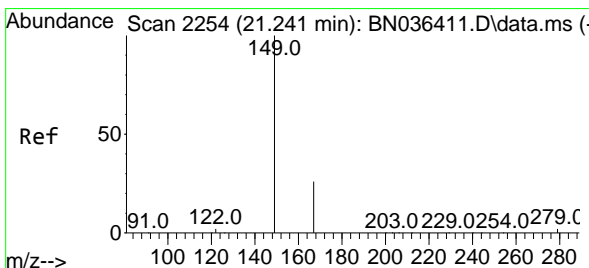
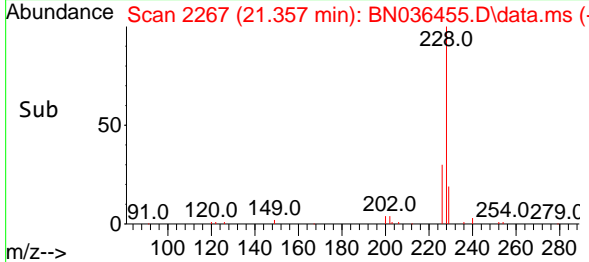
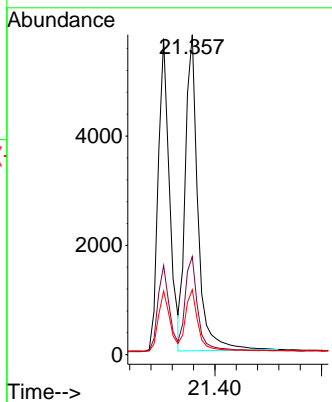
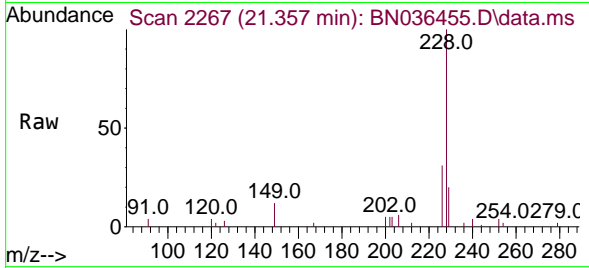


#33
 Chrysene
 Concen: 0.398 ng
 RT: 21.357 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD

Tgt Ion:228 Resp: 9478

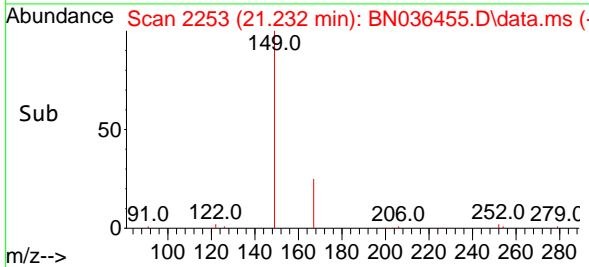
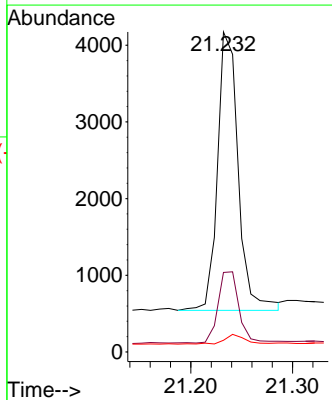
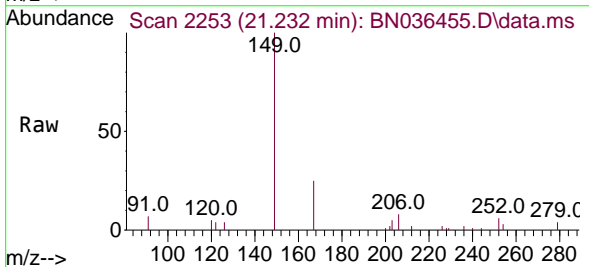
Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.5	38.3
229	20.3	16.4	24.6

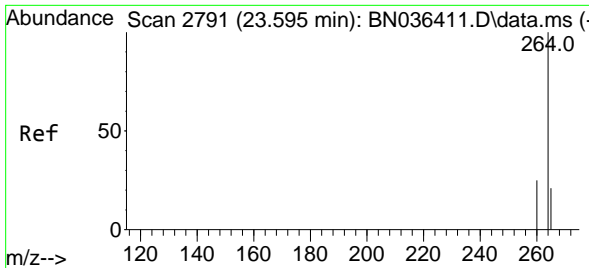


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.375 ng
 RT: 21.232 min Scan# 2253
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Tgt Ion:149 Resp: 5132

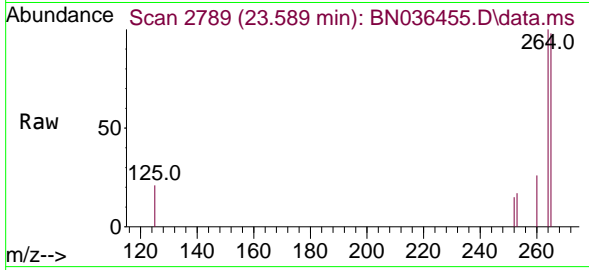
Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.2	31.8
279	3.4	2.7	4.1



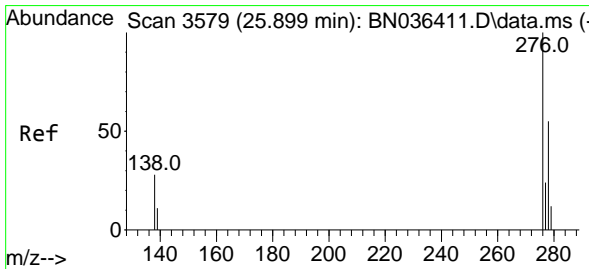
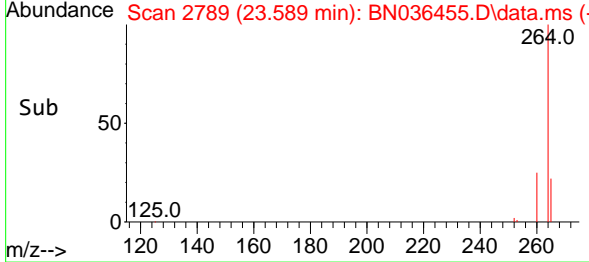
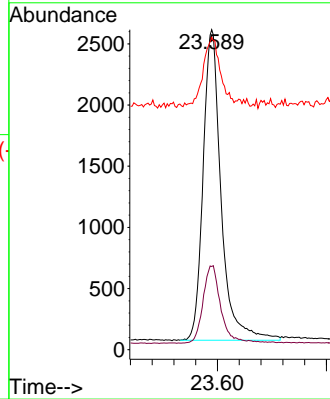


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.589 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

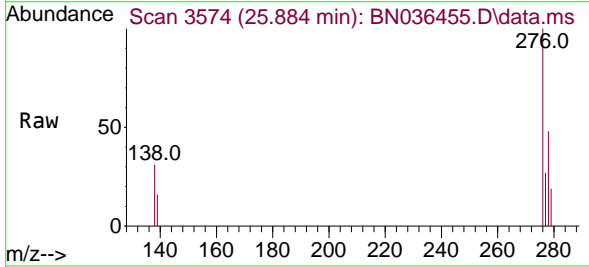
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



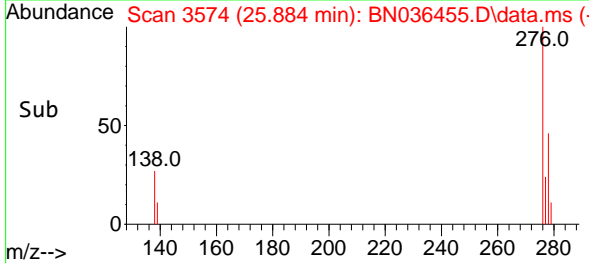
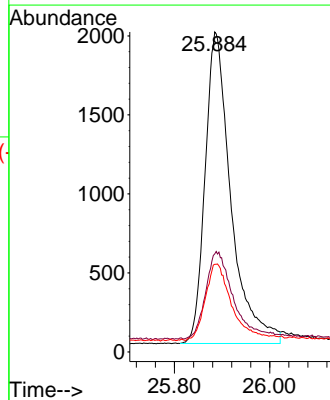
Tgt Ion:264 Resp: 5828
 Ion Ratio Lower Upper
 264 100
 260 26.0 20.9 31.3
 265 97.6 60.7 91.1#

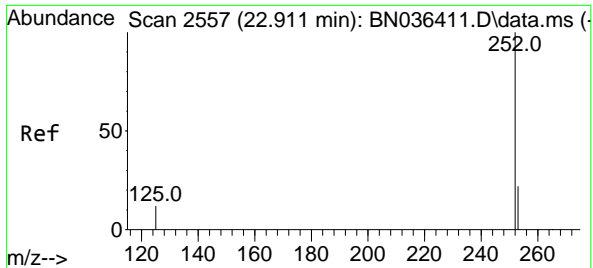


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.366 ng
 RT: 25.884 min Scan# 3574
 Delta R.T. -0.015 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



Tgt Ion:276 Resp: 7446
 Ion Ratio Lower Upper
 276 100
 138 29.4 22.2 33.2
 277 25.1 19.8 29.6

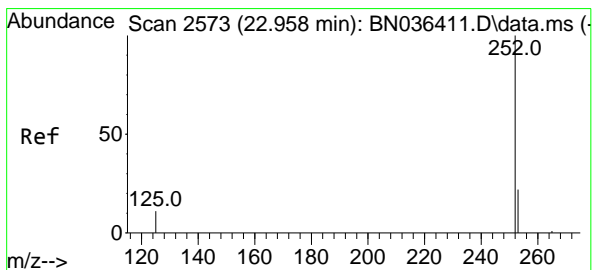
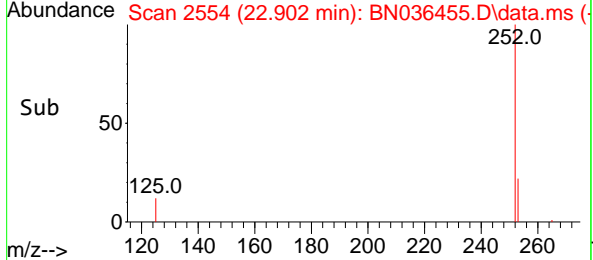
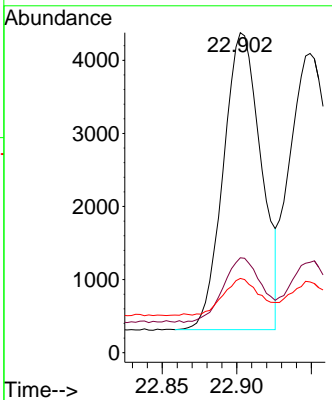
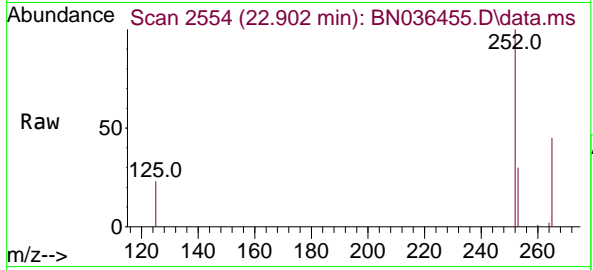




#37
 Benzo(b)fluoranthene
 Concen: 0.374 ng
 RT: 22.902 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

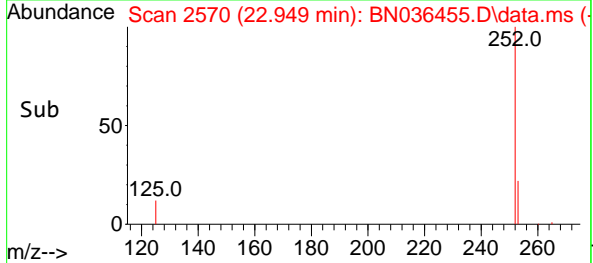
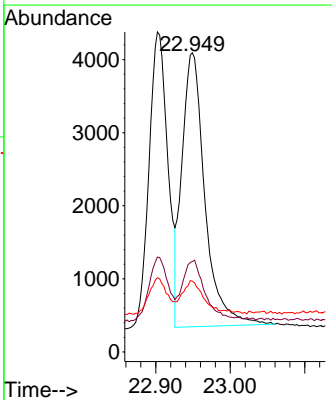
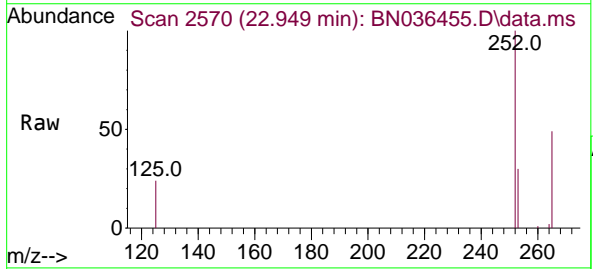
Instrument : BNA_N
 ClientSampleId : PB166675BSD

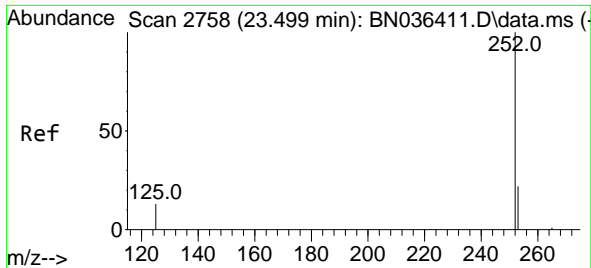
Tgt Ion	Resp	Lower	Upper
252	100		
253	29.7	21.9	32.9
125	23.2	15.0	22.6



#38
 Benzo(k)fluoranthene
 Concen: 0.407 ng
 RT: 22.949 min Scan# 2570
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

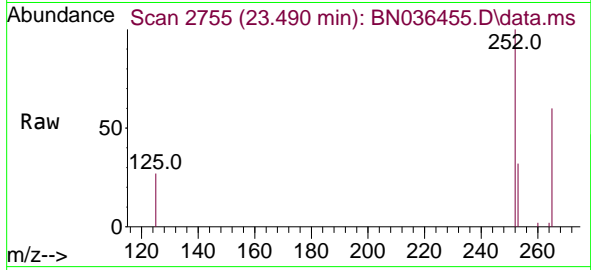
Tgt Ion	Resp	Lower	Upper
252	100		
253	30.2	22.2	33.4
125	23.6	15.0	22.4



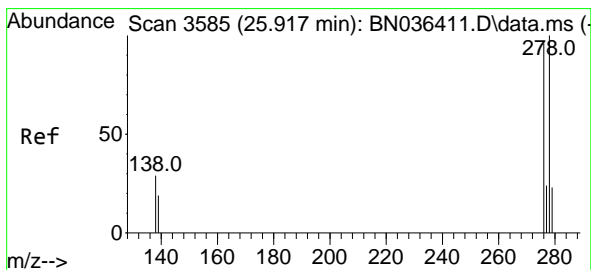
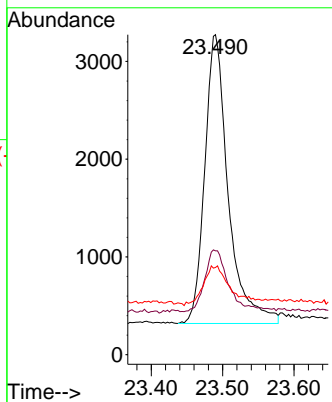
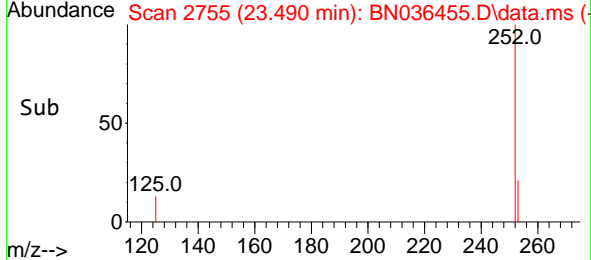


#39
 Benzo(a)pyrene
 Concen: 0.404 ng
 RT: 23.490 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

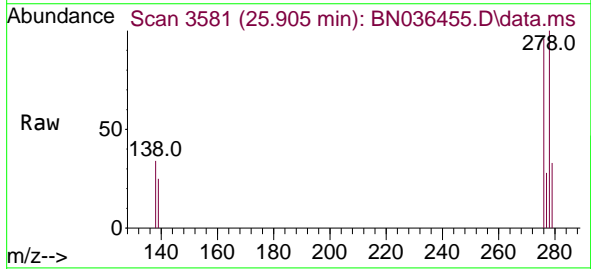
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



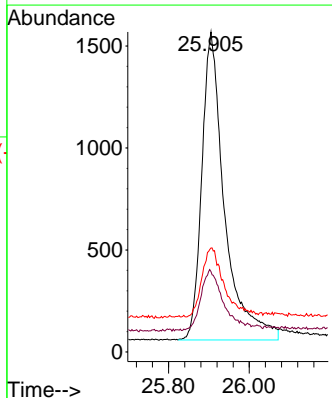
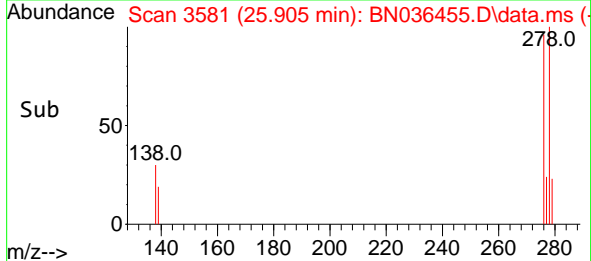
Tgt Ion:252 Resp: 6762
 Ion Ratio Lower Upper
 252 100
 253 32.4 24.4 36.6
 125 27.3 18.2 27.2#

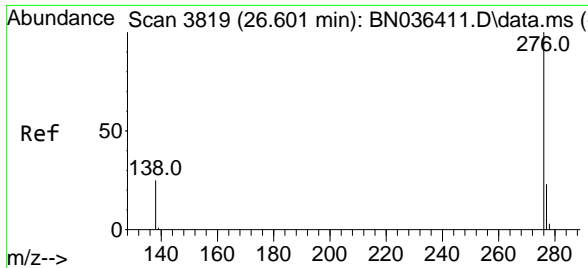


#40
 Dibenzo(a,h)anthracene
 Concen: 0.367 ng
 RT: 25.905 min Scan# 3581
 Delta R.T. -0.012 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11



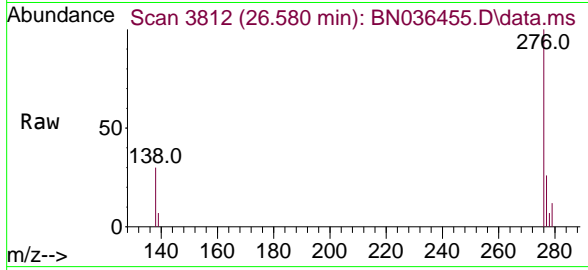
Tgt Ion:278 Resp: 5905
 Ion Ratio Lower Upper
 278 100
 139 25.1 18.5 27.7
 279 32.5 24.8 37.2





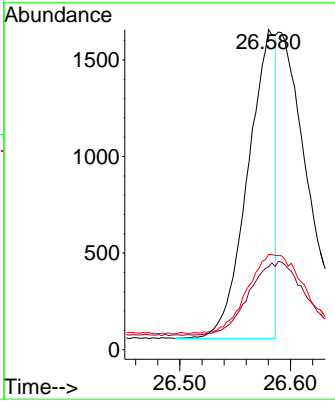
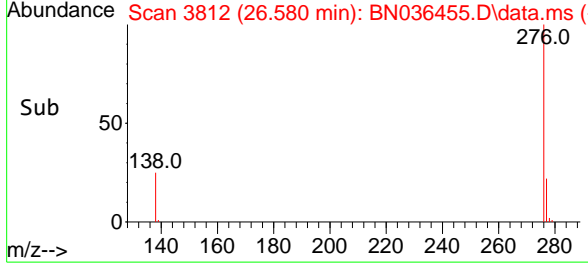
#41
 Benzo(g,h,i)perylene
 Concen: 0.152 ng
 RT: 26.580 min Scan# 3812
 Delta R.T. -0.021 min
 Lab File: BN036455.D
 Acq: 13 Feb 2025 00:11

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BSD



Tgt Ion: 276 Resp: 2762

Ion	Ratio	Lower	Upper
276	100		
277	26.0	20.7	31.1
138	29.8	21.8	32.6



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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036456.D
 Acq On : 13 Feb 2025 00:47
 Operator : RC/JU
 Sample : PB166675BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

Quant Time: Feb 13 01:17:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

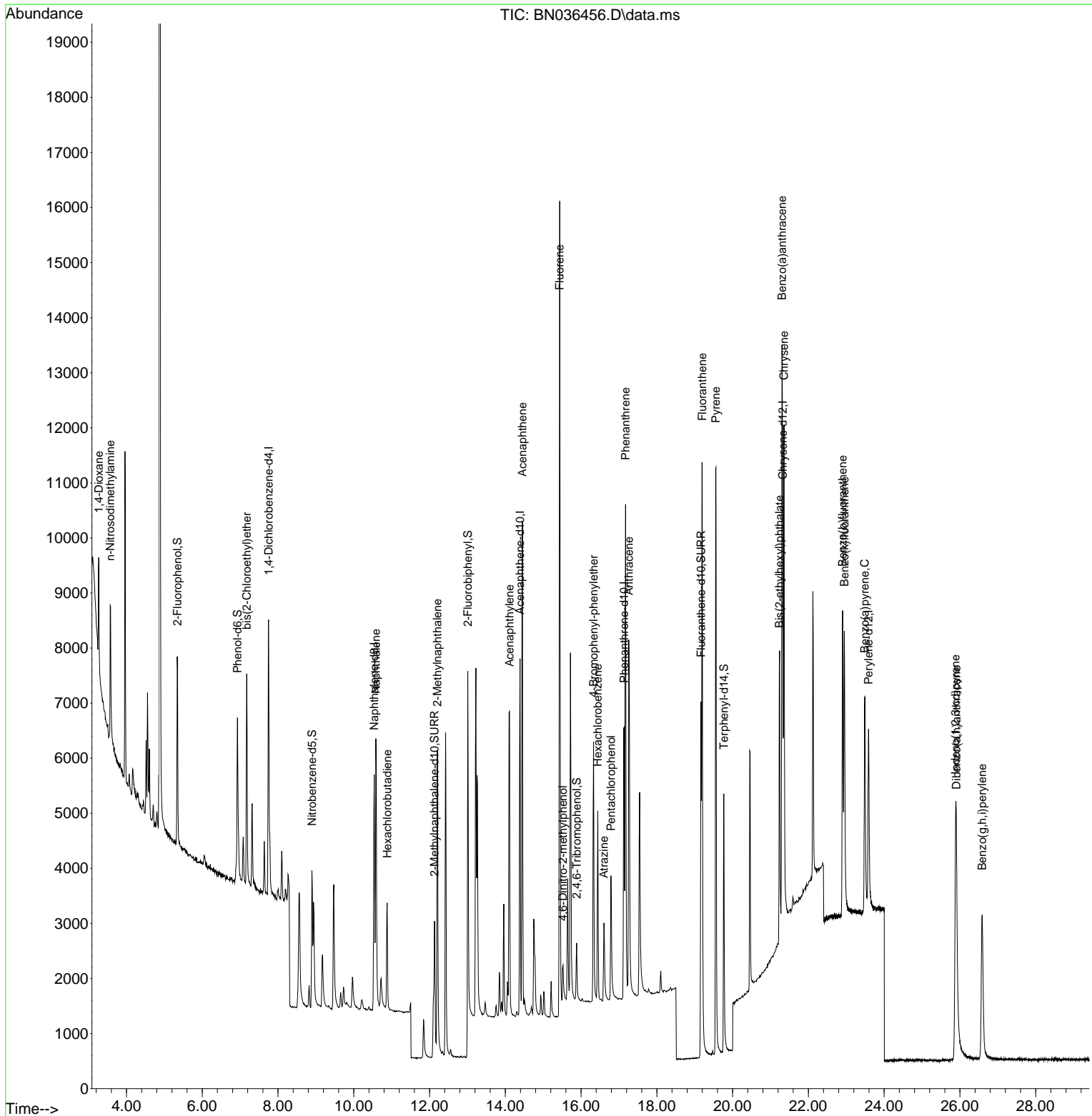
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2556	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6260	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.387	164	3794	0.400	ng	0.00	
19) Phenanthrene-d10	17.136	188	8432	0.400	ng	0.00	
29) Chrysene-d12	21.321	240	5969	0.400	ng	0.00	
35) Perylene-d12	23.589	264	5192	0.400	ng	# 0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	2667	0.441	ng	0.00	
5) Phenol-d6	6.930	99	3129	0.441	ng	0.00	
8) Nitrobenzene-d5	8.896	82	2352	0.381	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	5993	0.623	ng	-0.01	
14) 2,4,6-Tribromophenol	15.882	330	661	0.351	ng	0.00	
15) 2-Fluorobiphenyl	13.008	172	6468	0.453	ng	-0.01	
27) Fluoranthene-d10	19.164	212	8486	0.362	ng	0.00	
31) Terphenyl-d14	19.768	244	5837	0.458	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	929	0.332	ng	# 72	Qvalue
3) n-Nitrosodimethylamine	3.571	42	2031	0.418	ng	# 96	
6) bis(2-Chloroethyl)ether	7.175	93	2961	0.399	ng	99	
9) Naphthalene	10.583	128	7143	0.395	ng	100	
10) Hexachlorobutadiene	10.882	225	1728	0.393	ng	# 100	
12) 2-Methylnaphthalene	12.207	142	4657	0.393	ng	99	
16) Acenaphthylene	14.109	152	7114	0.425	ng	99	
17) Acenaphthene	14.451	154	4535	0.405	ng	98	
18) Fluorene	15.435	166	6470	0.406	ng	99	
20) 4,6-Dinitro-2-methylph...	15.522	198	577	0.349	ng	# 78	
21) 4-Bromophenyl-phenylether	16.329	248	2007	0.399	ng	# 85	
22) Hexachlorobenzene	16.441	284	2508	0.404	ng	98	
23) Atrazine	16.602	200	1638	0.390	ng	93	
24) Pentachlorophenol	16.788	266	1379	0.468	ng	97	
25) Phenanthrene	17.173	178	9995	0.410	ng	99	
26) Anthracene	17.260	178	9154	0.426	ng	99	
28) Fluoranthene	19.196	202	10986	0.367	ng	99	
30) Pyrene	19.559	202	11216	0.488	ng	100	
32) Benzo(a)anthracene	21.303	228	8299	0.423	ng	99	
33) Chrysene	21.357	228	9402	0.442	ng	99	
34) Bis(2-ethylhexyl)phtha...	21.232	149	4731	0.387	ng	98	
36) Indeno(1,2,3-cd)pyrene	25.884	276	7632	0.421	ng	99	
37) Benzo(b)fluoranthene	22.902	252	7265	0.425	ng	96	
38) Benzo(k)fluoranthene	22.949	252	7949	0.452	ng	95	
39) Benzo(a)pyrene	23.487	252	6998	0.469	ng	95	
40) Dibenzo(a,h)anthracene	25.908	278	5616	0.392	ng	98	
41) Benzo(g,h,i)perylene	26.586	276	6107	0.376	ng	98	

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

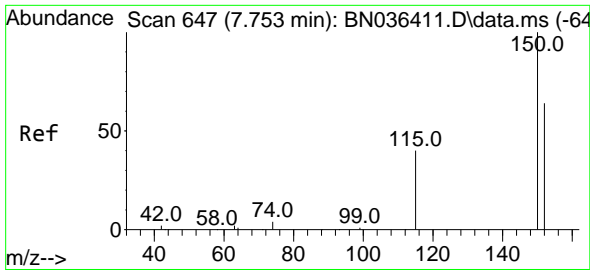
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 Data File : BN036456.D
 Acq On : 13 Feb 2025 00:47
 Operator : RC/JU
 Sample : PB166675BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

Quant Time: Feb 13 01:17:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

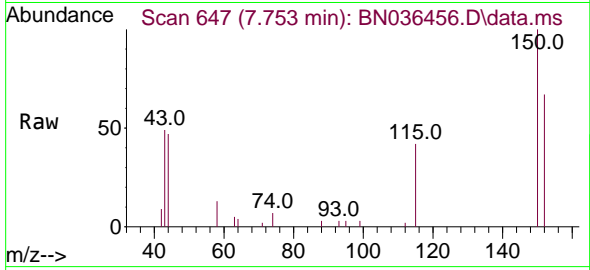


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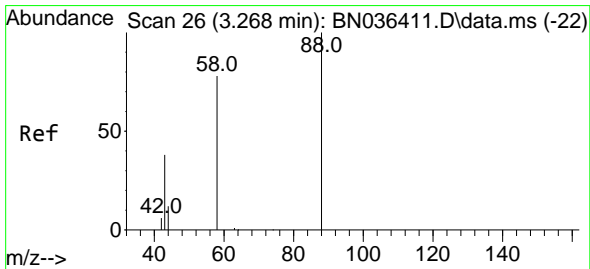
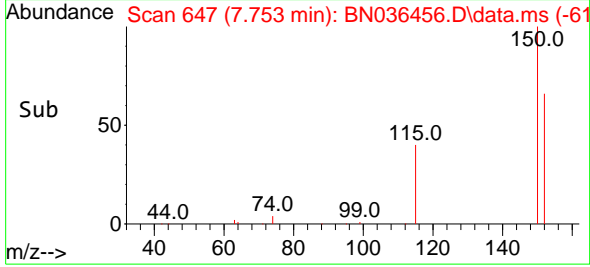
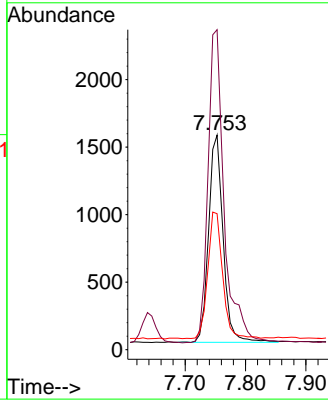


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.753 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

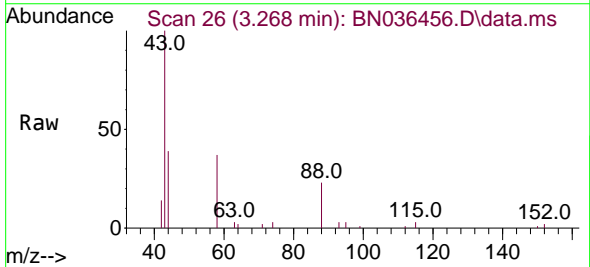
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



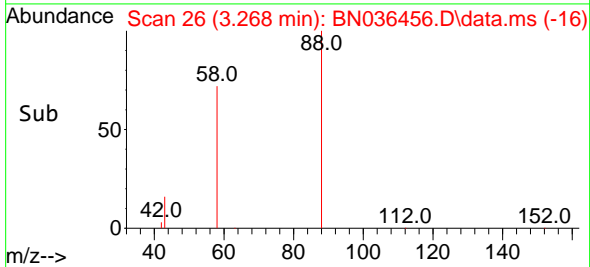
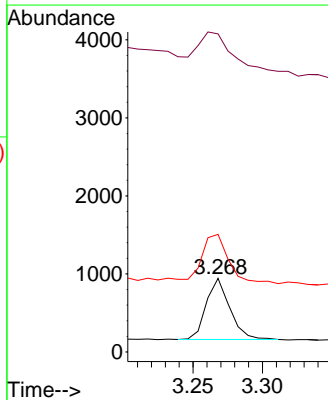
Tgt Ion:152 Resp: 2556
 Ion Ratio Lower Upper
 152 100
 150 149.2 123.7 185.5
 115 63.4 52.5 78.7

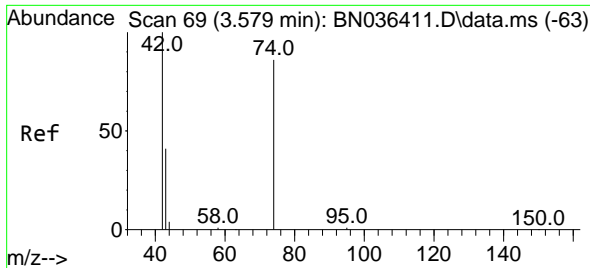


#2
 1,4-Dioxane
 Concen: 0.332 ng
 RT: 3.268 min Scan# 26
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion: 88 Resp: 929
 Ion Ratio Lower Upper
 88 100
 43 87.7 33.7 50.5#
 58 92.6 68.9 103.3

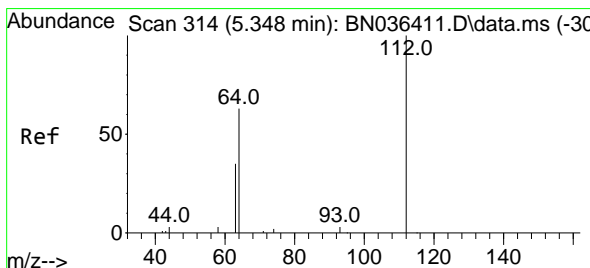
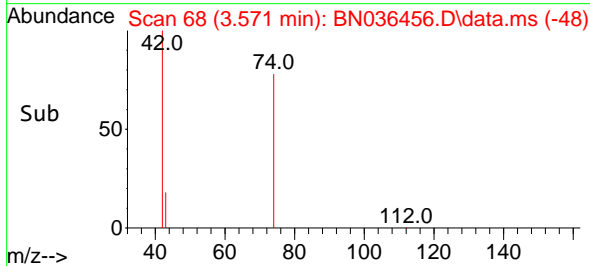
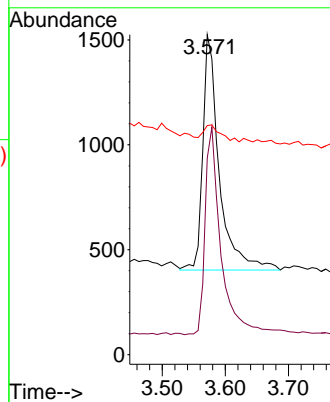
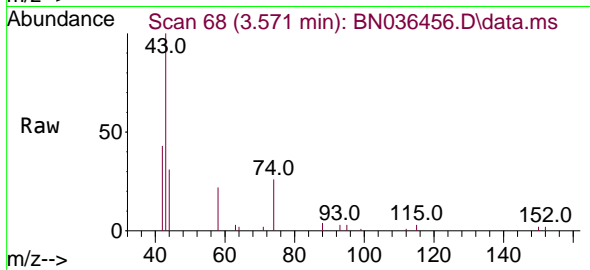




#3
 n-Nitrosodimethylamine
 Concen: 0.418 ng
 RT: 3.571 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

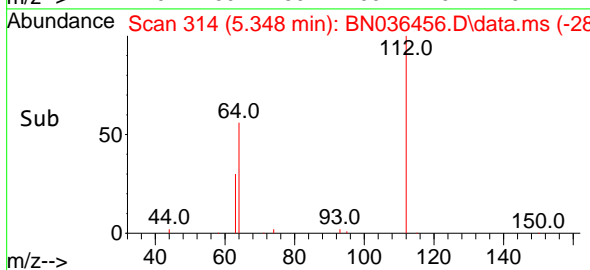
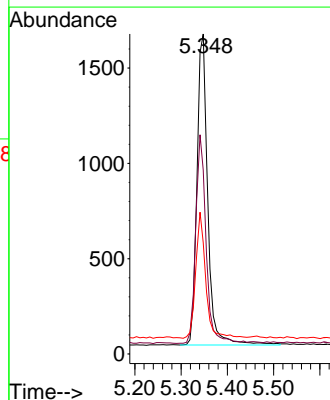
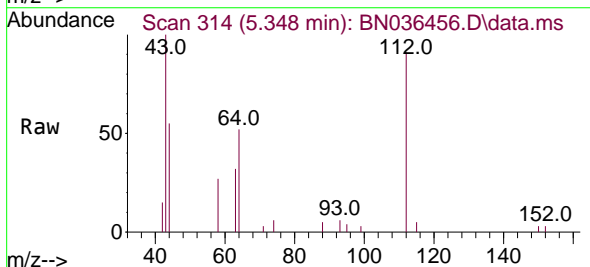
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

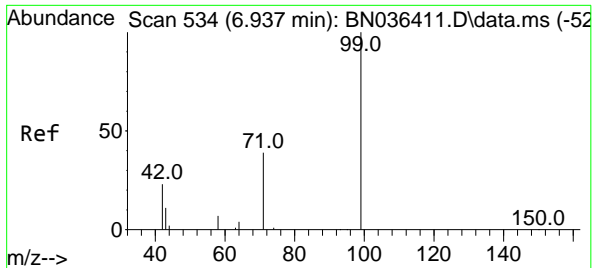
Tgt Ion: 42 Resp: 2031
 Ion Ratio Lower Upper
 42 100
 74 85.9 71.8 107.6
 44 7.4 7.8 11.6#



#4
 2-Fluorophenol
 Concen: 0.441 ng
 RT: 5.348 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion: 112 Resp: 2667
 Ion Ratio Lower Upper
 112 100
 64 64.0 53.4 80.0
 63 37.4 30.3 45.5

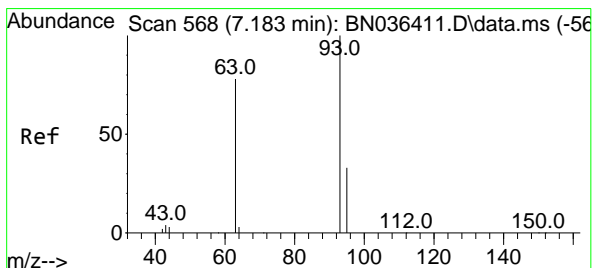
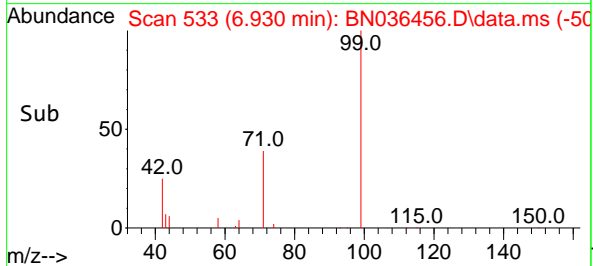
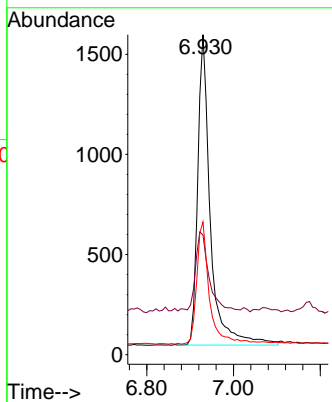
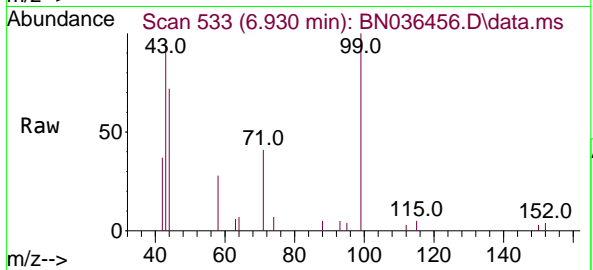




#5
 Phenol-d6
 Concen: 0.441 ng
 RT: 6.930 min Scan# 51
 Delta R.T. -0.008 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

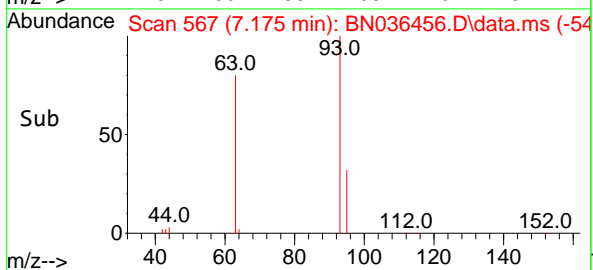
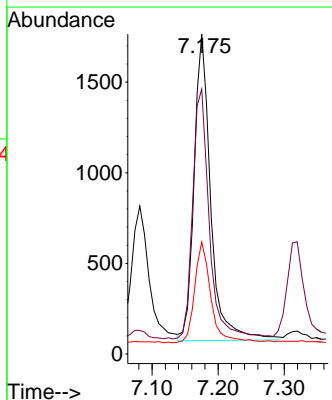
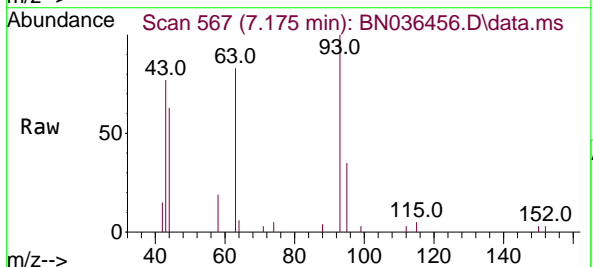
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

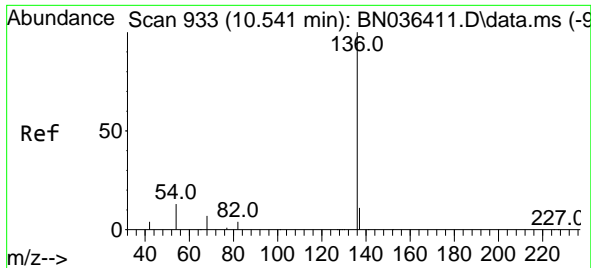
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	3129	100		
42		27.4	21.7	32.5
71		39.5	32.6	49.0



#6
 bis(2-Chloroethyl)ether
 Concen: 0.399 ng
 RT: 7.175 min Scan# 567
 Delta R.T. -0.008 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	2961	100		
63		81.9	66.3	99.5
95		32.2	26.2	39.4

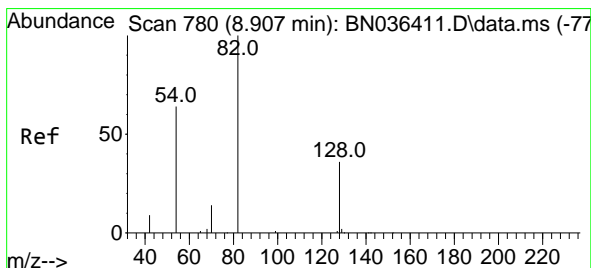
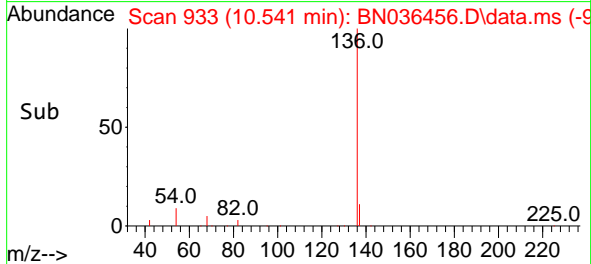
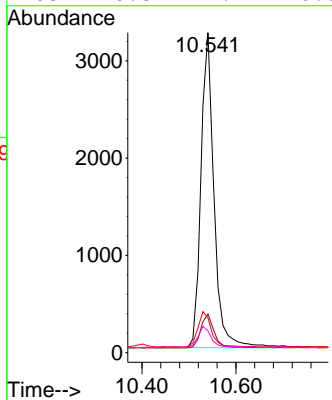
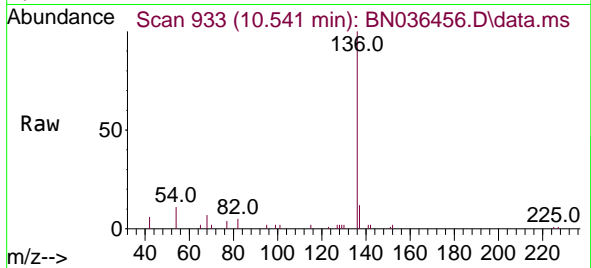




#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

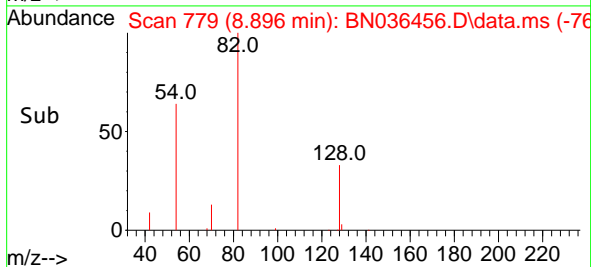
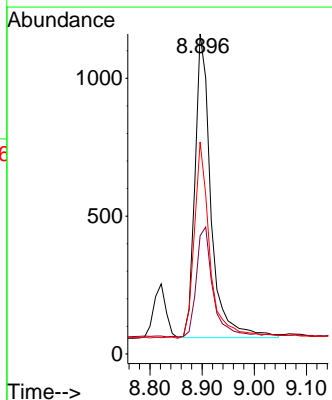
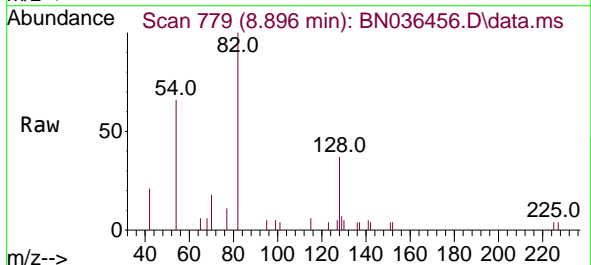
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

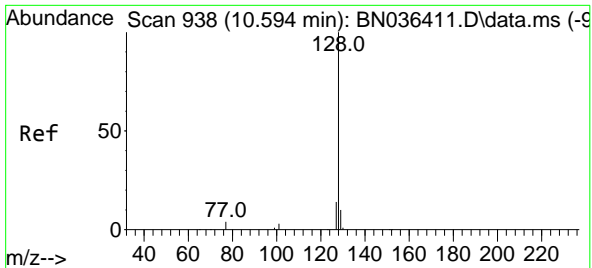
Tgt Ion	Resp	Lower	Upper
136	6260		
137	12.0	10.1	15.1
54	10.9	11.8	17.6#
68	6.8	7.2	10.8#



#8
 Nitrobenzene-d5
 Concen: 0.381 ng
 RT: 8.896 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion	Resp	Lower	Upper
82	2352		
128	37.0	31.9	47.9
54	66.2	53.1	79.7



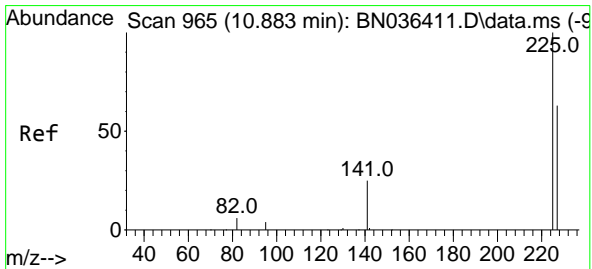
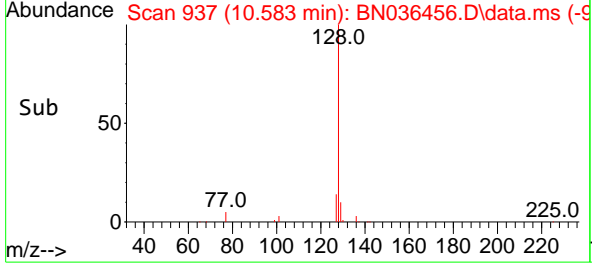
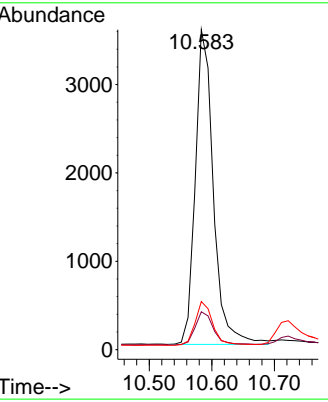
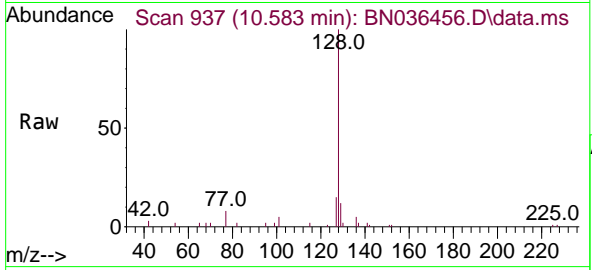


#9
 Naphthalene
 Concen: 0.395 ng
 RT: 10.583 min Scan# 911
 Delta R.T. -0.011 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

Tgt Ion:128 Resp: 7143

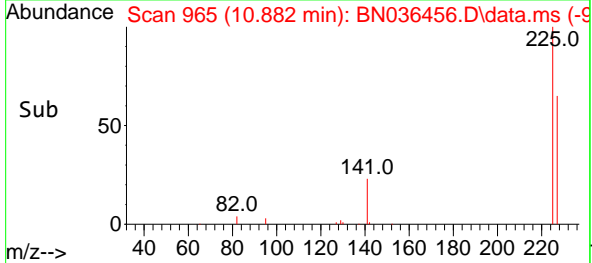
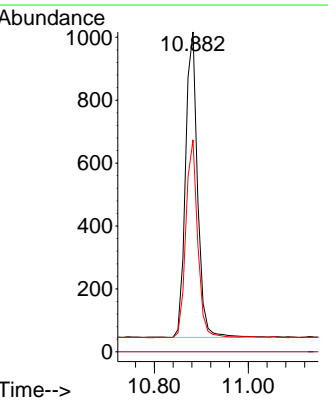
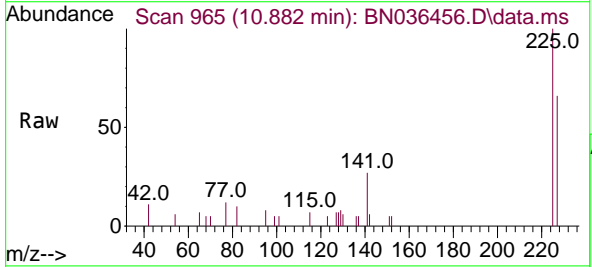
Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.6	14.4
127	15.0	12.0	18.0

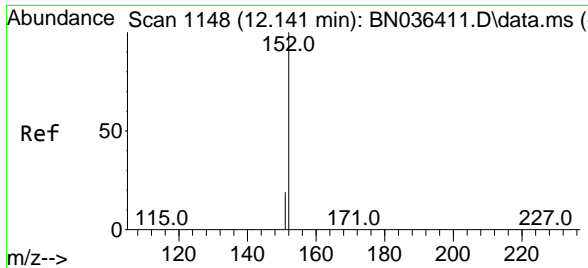


#10
 Hexachlorobutadiene
 Concen: 0.393 ng
 RT: 10.882 min Scan# 965
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion:225 Resp: 1728

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.9	76.3

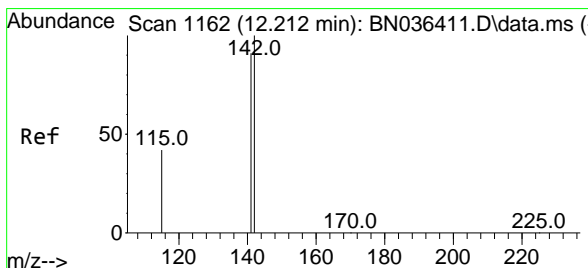
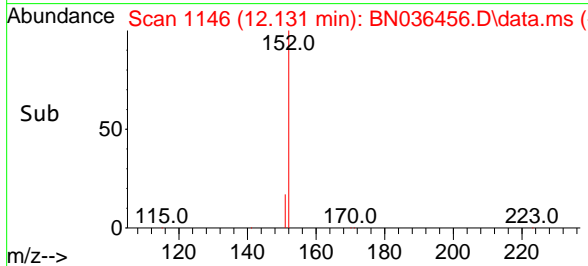
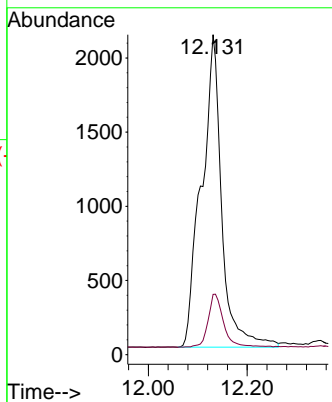
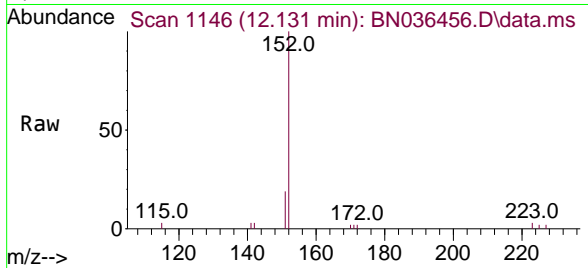




#11
 2-Methylnaphthalene-d10
 Concen: 0.623 ng
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

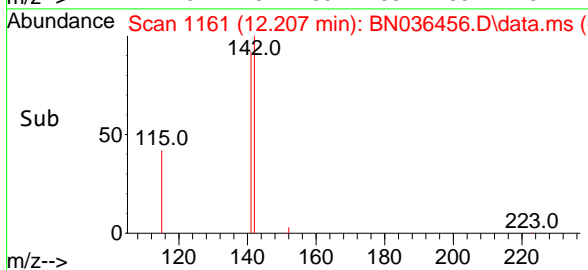
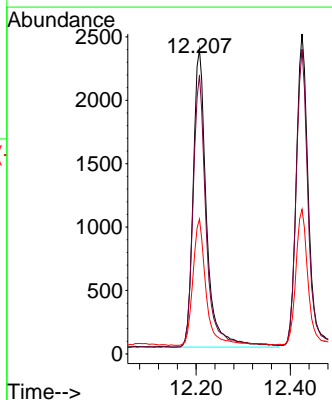
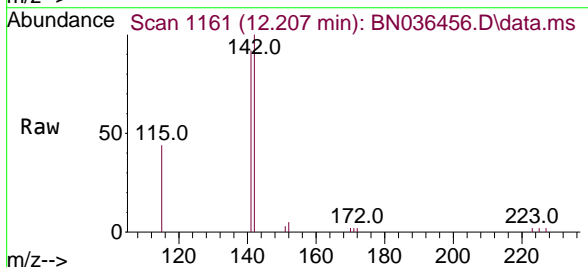
Instrument : BNA_N
 ClientSampleId : PB166675BS

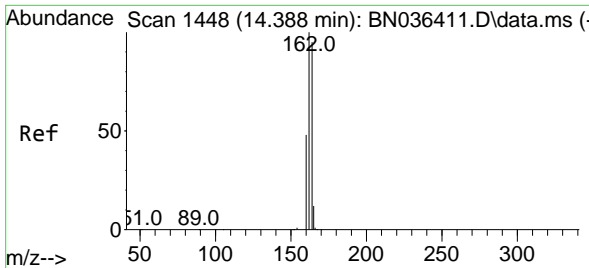
Tgt Ion:152 Resp: 5993
 Ion Ratio Lower Upper
 152 100
 151 13.3 16.6 25.0#



#12
 2-Methylnaphthalene
 Concen: 0.393 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion:142 Resp: 4657
 Ion Ratio Lower Upper
 142 100
 141 91.6 72.8 109.2
 115 44.3 35.5 53.3

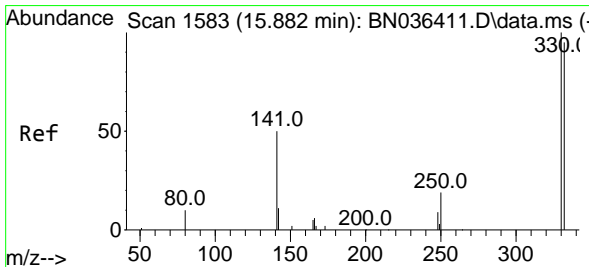
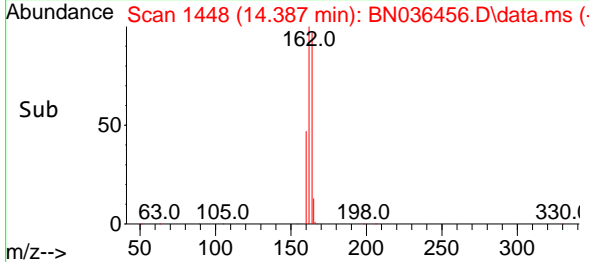
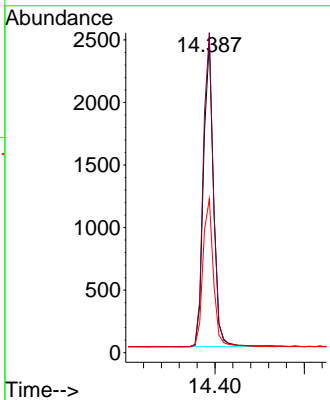
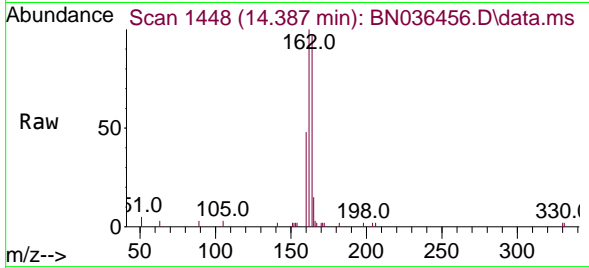




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.387 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

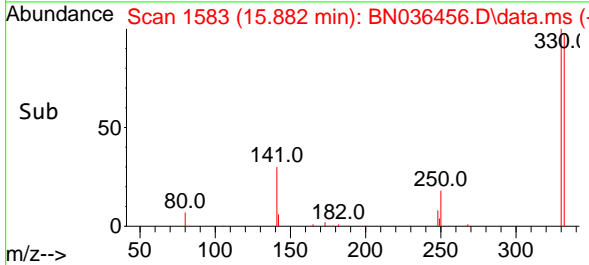
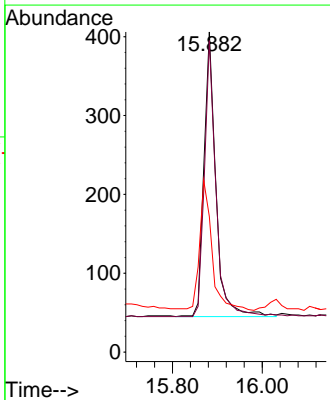
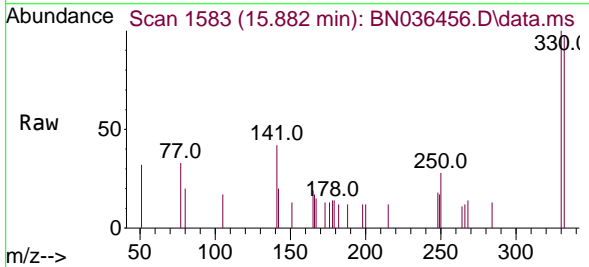
Instrument : BNA_N
 Client Sample Id : PB166675BS

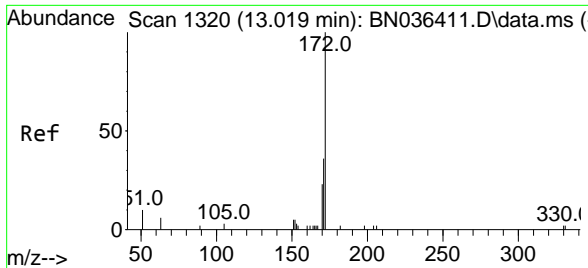
Tgt Ion	Resp	Lower	Upper
164	3794		
162	102.9	84.1	126.1
160	49.4	41.4	62.0



#14
 2,4,6-Tribromophenol
 Concen: 0.351 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion	Resp	Lower	Upper
330	661		
332	93.8	76.6	114.8
141	47.4	37.8	56.8



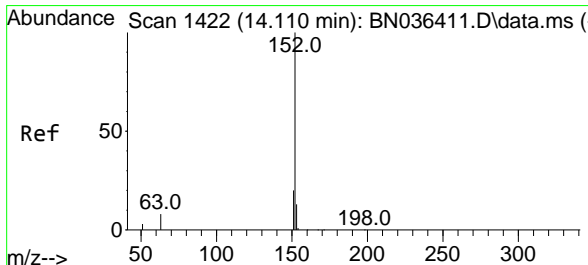
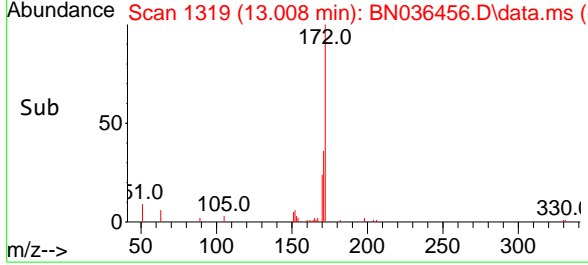
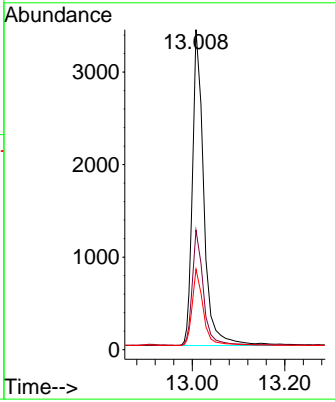
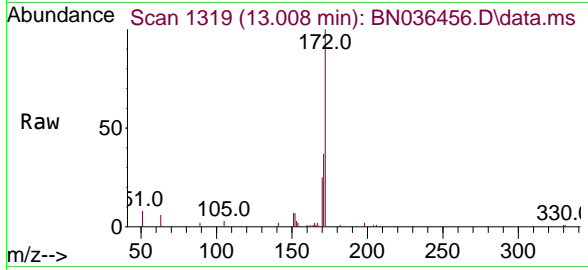


#15
 2-Fluorobiphenyl
 Concen: 0.453 ng
 RT: 13.008 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument : BNA_N
 Client Sample Id : PB166675BS

Tgt Ion:172 Resp: 6468

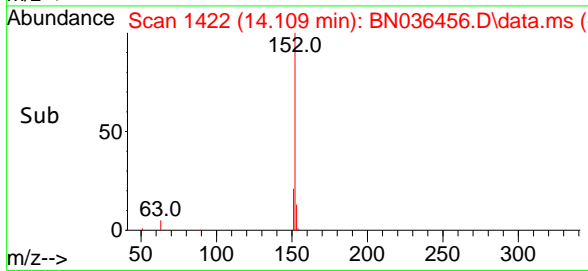
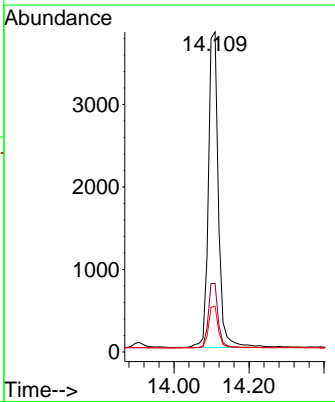
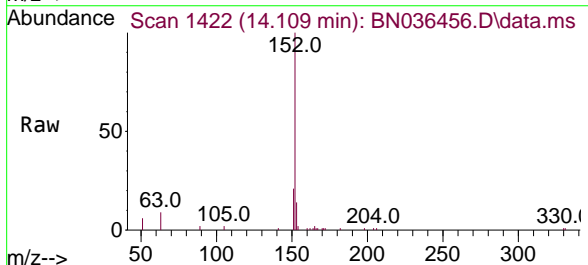
Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.6	44.4
170	25.1	19.8	29.6

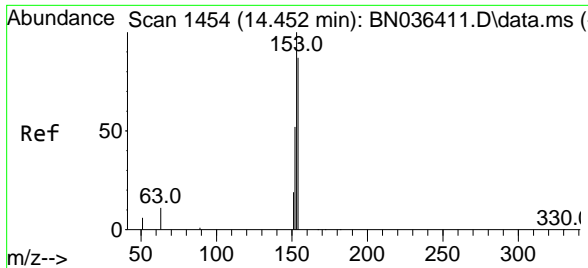


#16
 Acenaphthylene
 Concen: 0.425 ng
 RT: 14.109 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion:152 Resp: 7114

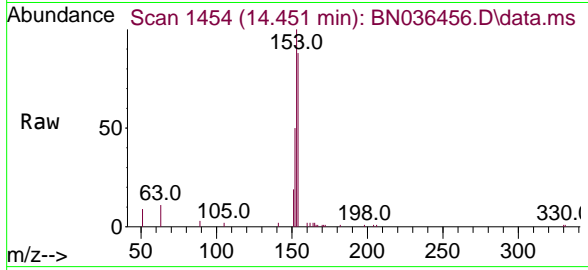
Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.8
153	13.3	10.2	15.2





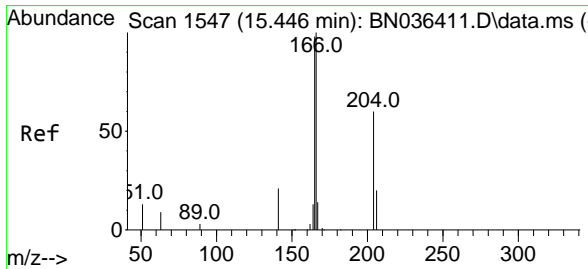
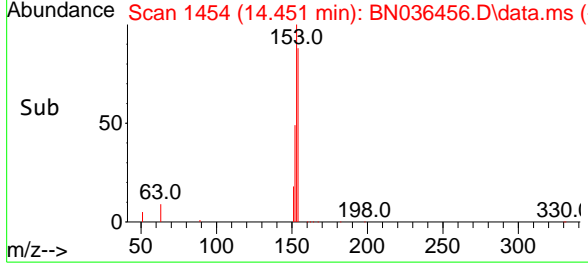
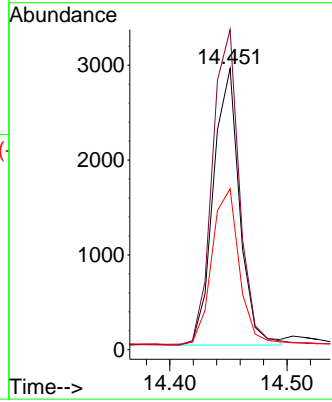
#17
 Acenaphthene
 Concen: 0.405 ng
 RT: 14.451 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument : BNA_N
 ClientSampleId : PB166675BS

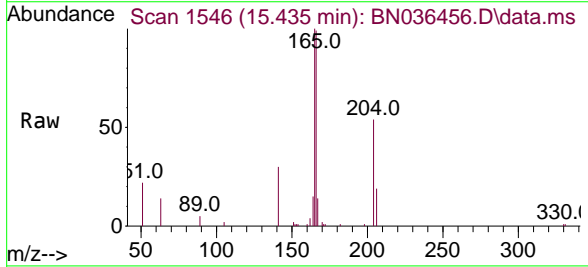


Tgt Ion:154 Resp: 4535

Ion	Ratio	Lower	Upper
154	100		
153	118.1	93.3	139.9
152	59.3	48.8	73.2

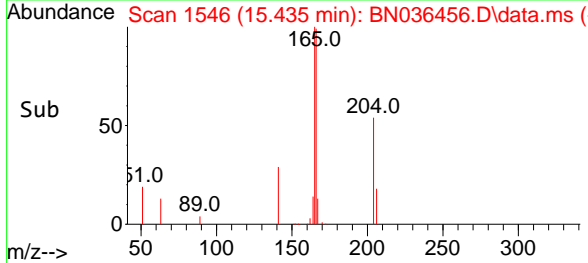
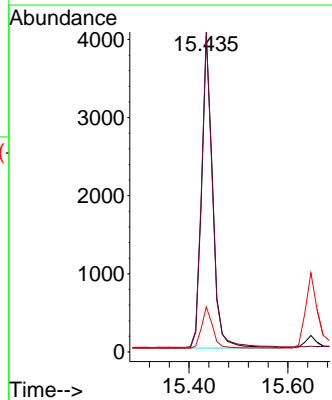


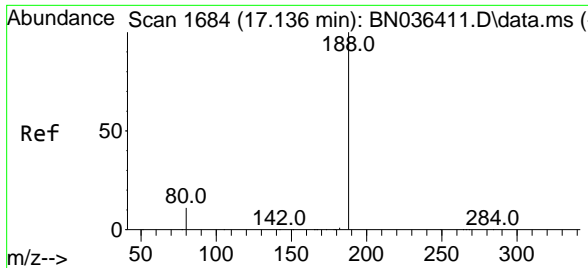
#18
 Fluorene
 Concen: 0.406 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion:166 Resp: 6470

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.5	119.3
167	13.4	10.4	15.6

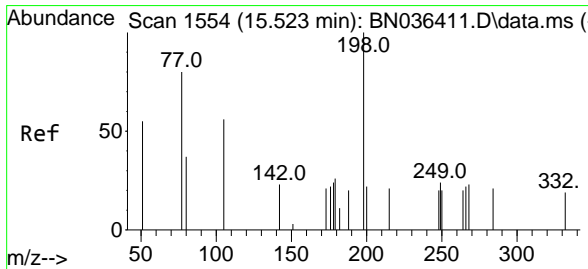
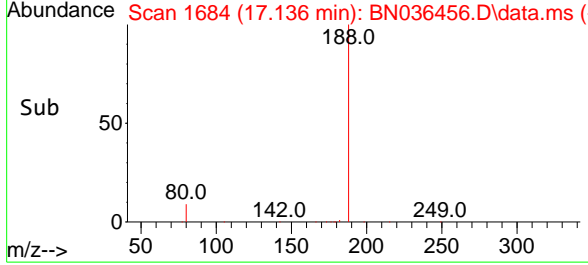
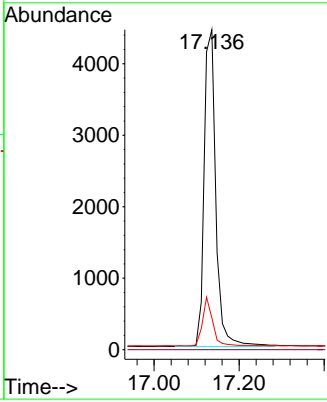
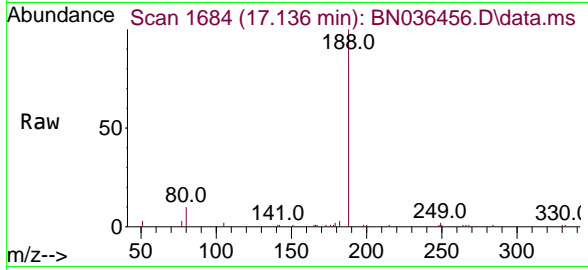




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.136 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

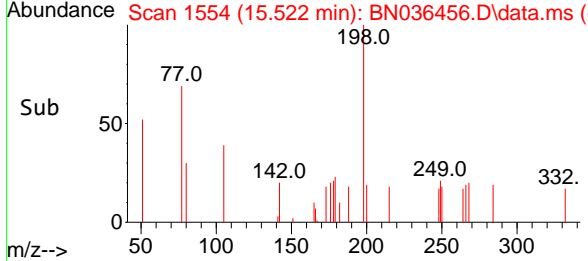
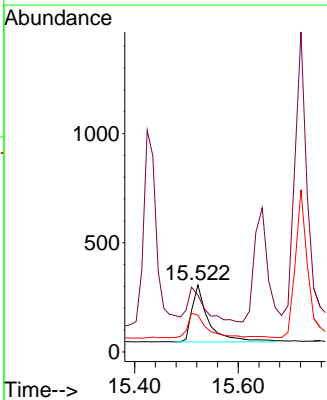
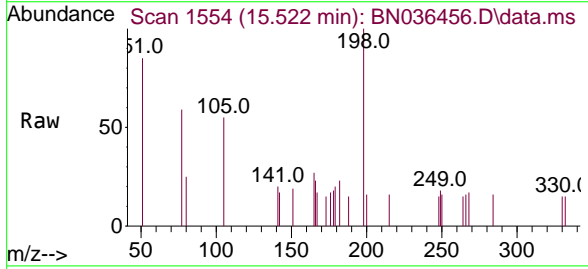
Instrument : BNA_N
 ClientSampleId : PB166675BS

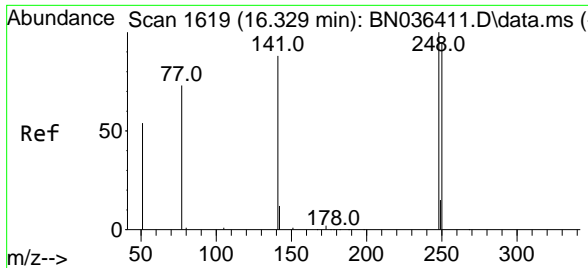
Tgt Ion	Resp	Lower	Upper
188	8432		
94	0.0	0.0	0.0
80	9.9	9.8	14.6



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.349 ng
 RT: 15.522 min Scan# 1554
 Delta R.T. -0.001 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion	Resp	Lower	Upper
198	577		
51	85.0	86.6	129.8#
105	54.7	57.5	86.3#

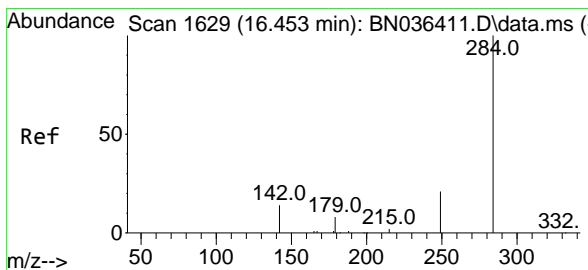
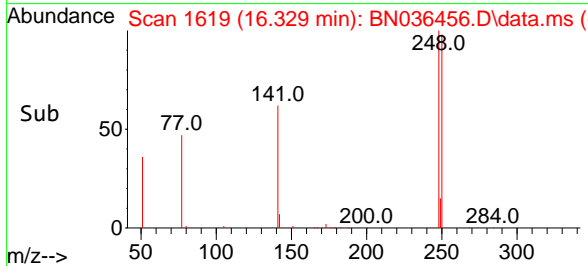
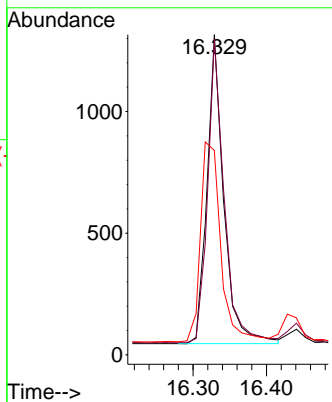
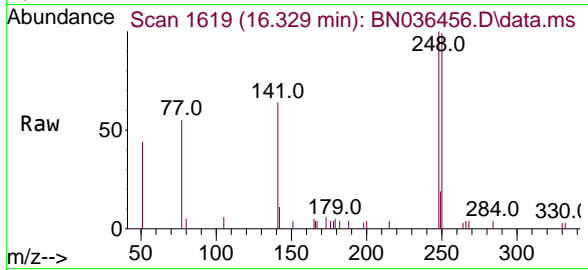




#21
 4-Bromophenyl-phenylether
 Concen: 0.399 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

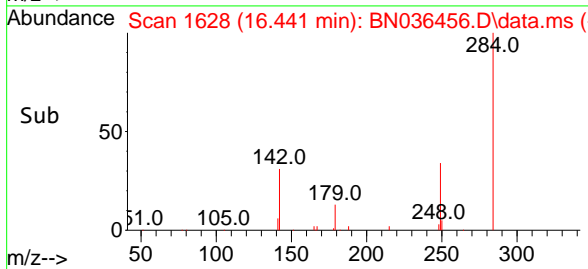
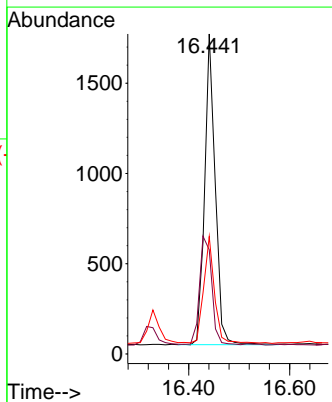
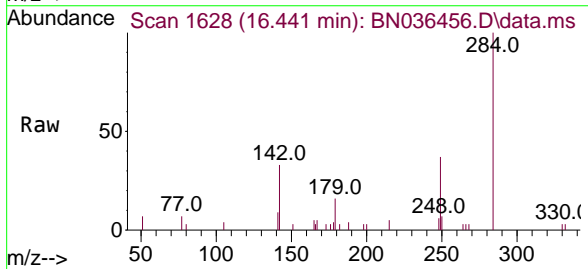
Instrument : BNA_N
 ClientSampleId : PB166675BS

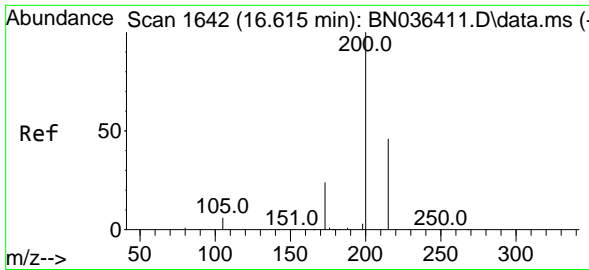
Tgt Ion	Resp	Lower	Upper
248	100		
250	98.6	76.1	114.1
141	63.8	71.7	107.5#



#22
 Hexachlorobenzene
 Concen: 0.404 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.013 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion	Resp	Lower	Upper
284	100		
142	40.3	33.4	50.0
249	35.3	28.6	43.0



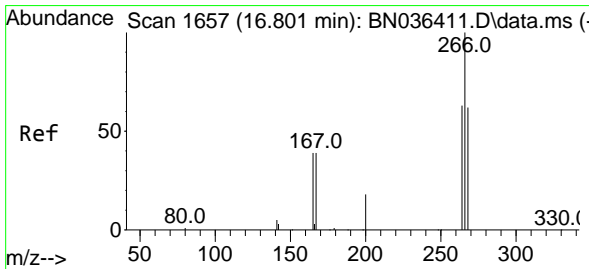
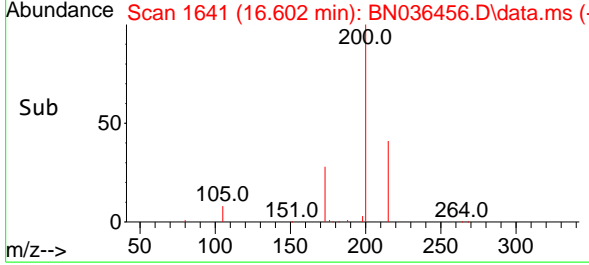
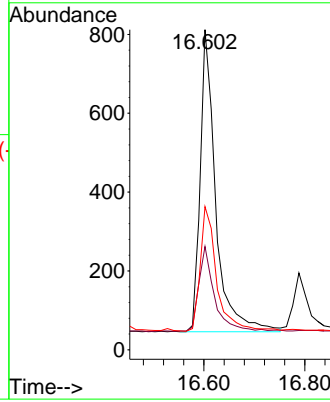
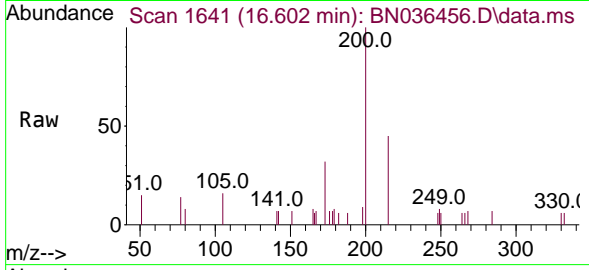


#23
 Atrazine
 Concen: 0.390 ng
 RT: 16.602 min Scan# 1641
 Delta R.T. -0.013 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

Tgt Ion: 200 Resp: 1638

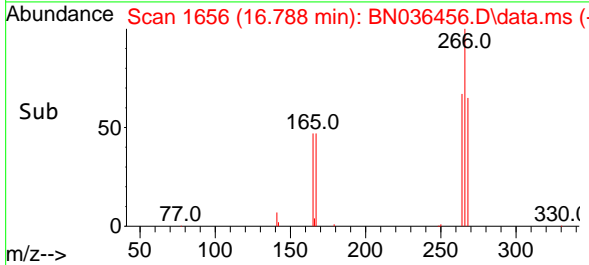
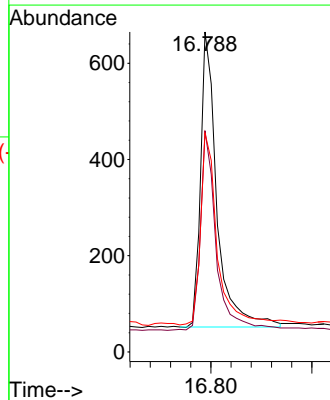
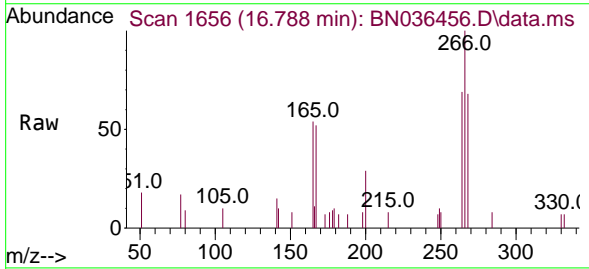
Ion	Ratio	Lower	Upper
200	100		
173	32.3	23.2	34.8
215	44.7	40.0	60.0

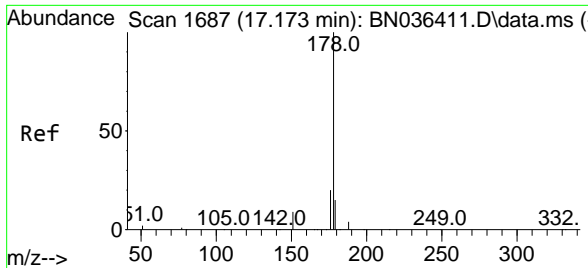


#24
 Pentachlorophenol
 Concen: 0.468 ng
 RT: 16.788 min Scan# 1656
 Delta R.T. -0.013 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion: 266 Resp: 1379

Ion	Ratio	Lower	Upper
266	100		
264	65.1	50.6	76.0
268	67.6	51.9	77.9

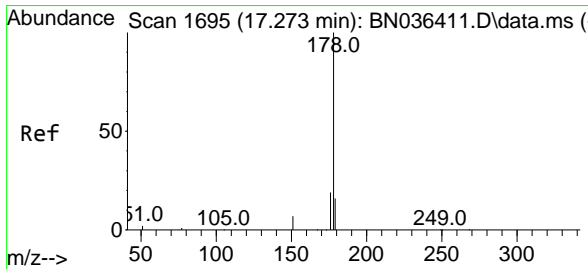
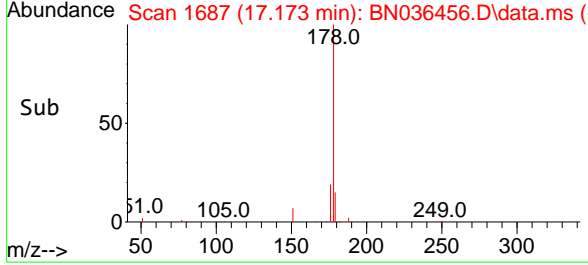
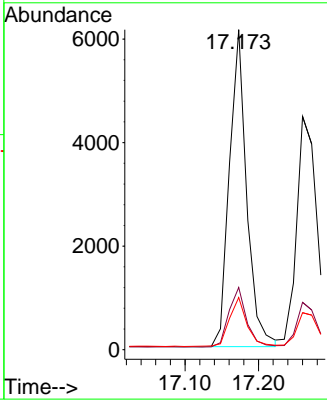
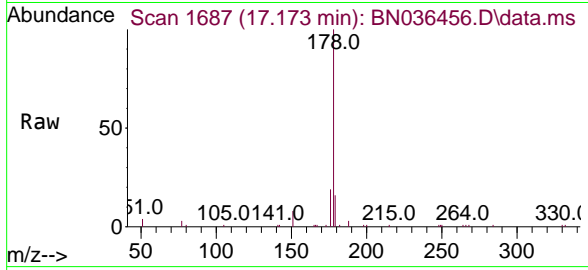




#25
 Phenanthrene
 Concen: 0.410 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

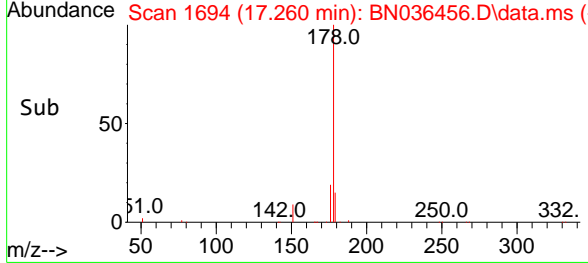
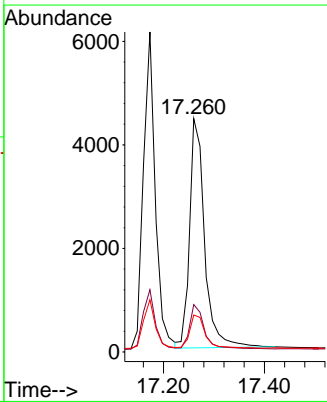
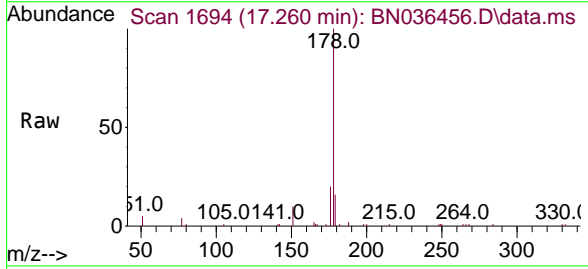
Instrument : BNA_N
 Client Sample Id : PB166675BS

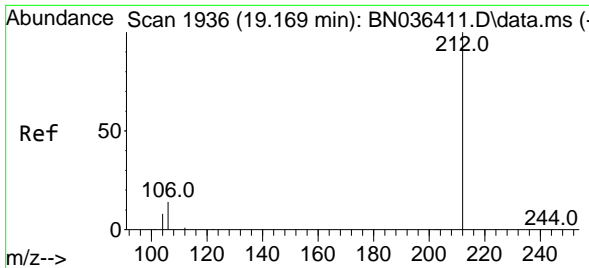
Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	9995	100		
176	19.2	15.7	15.7	23.5
179	15.7	12.4	12.4	18.6



#26
 Anthracene
 Concen: 0.426 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.013 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion	Resp	Ion Ratio	Lower	Upper
178	9154	100		
176	19.1	14.9	14.9	22.3
179	15.2	12.4	12.4	18.6

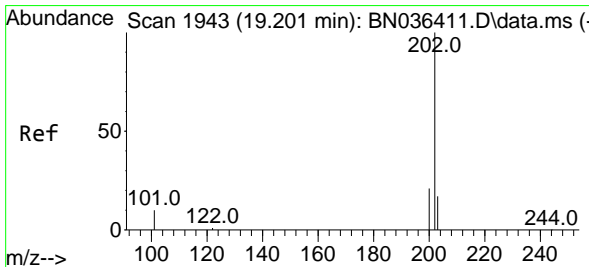
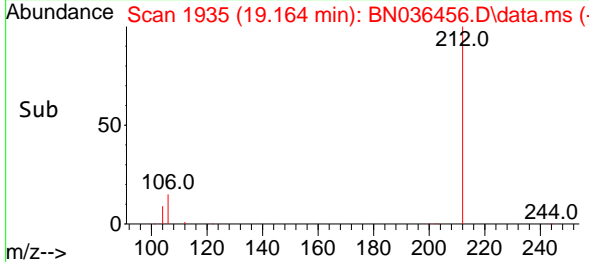
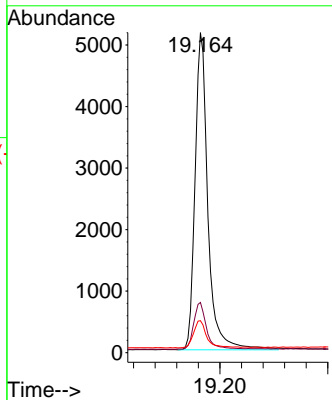
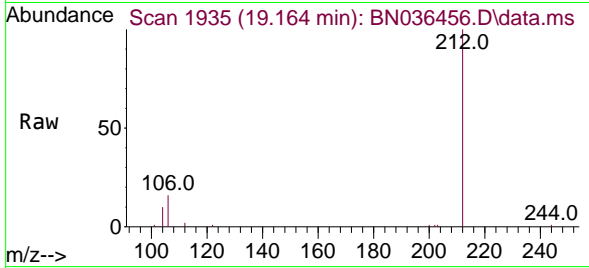




#27
 Fluoranthene-d10
 Concen: 0.362 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

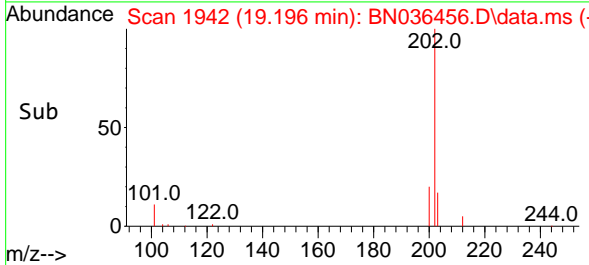
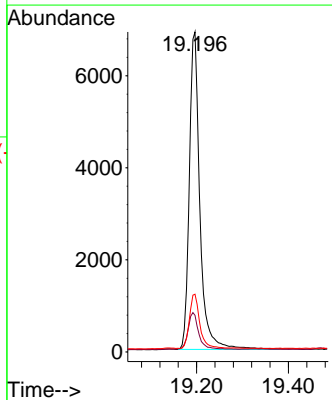
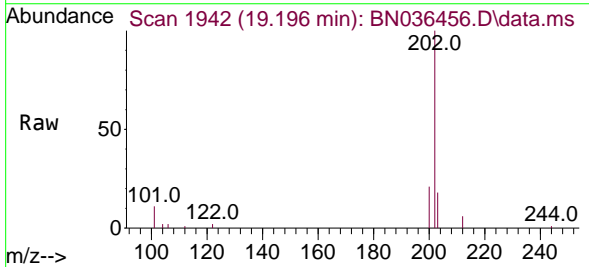
Instrument : BNA_N
 Client Sample Id : PB166675BS

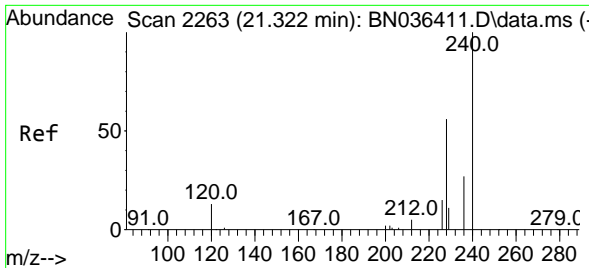
Tgt Ion	Resp	Lower	Upper
212	100		
106	14.8	11.5	17.3
104	8.7	7.1	10.7



#28
 Fluoranthene
 Concen: 0.367 ng
 RT: 19.196 min Scan# 1942
 Delta R.T. -0.005 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion	Resp	Lower	Upper
202	100		
101	12.0	9.2	13.8
203	16.8	13.4	20.0



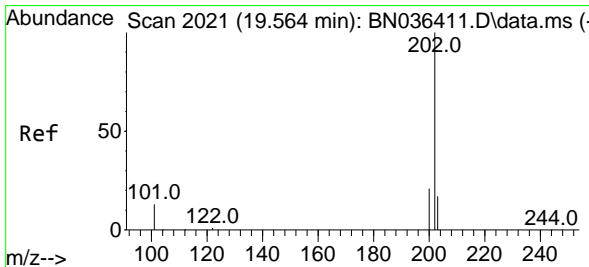
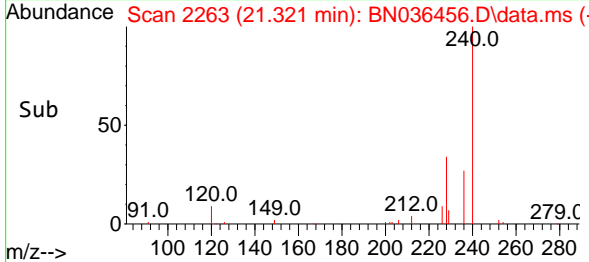
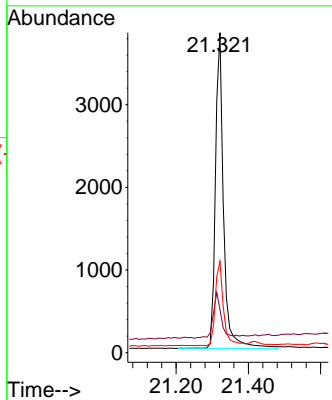
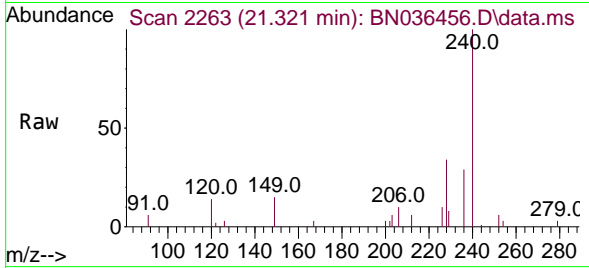


#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.321 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

Tgt Ion:240 Resp: 5969

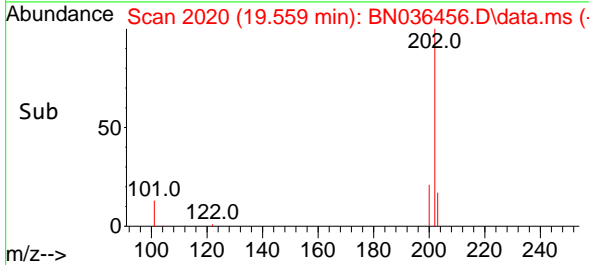
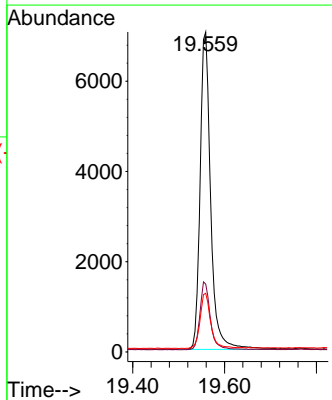
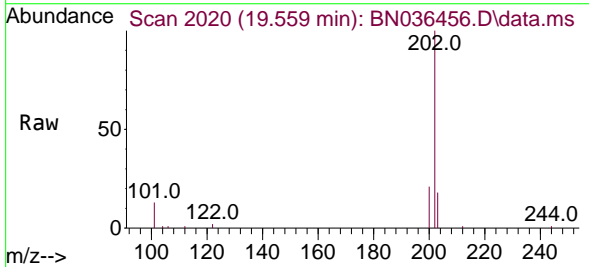
Ion	Ratio	Lower	Upper
240	100		
120	13.5	13.3	19.9
236	28.6	23.0	34.6

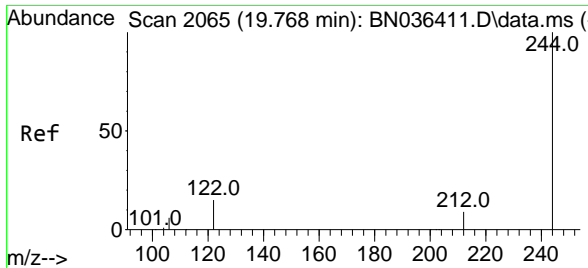


#30
 Pyrene
 Concen: 0.488 ng
 RT: 19.559 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion:202 Resp: 11216

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9

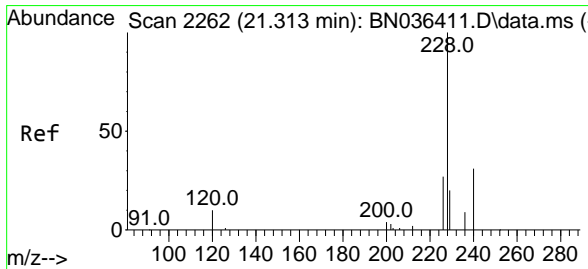
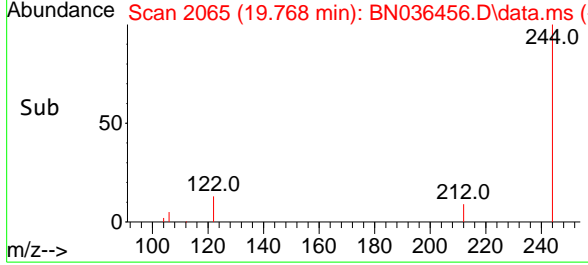
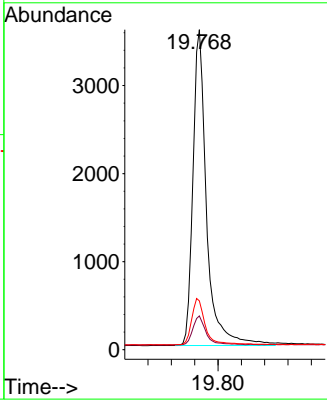
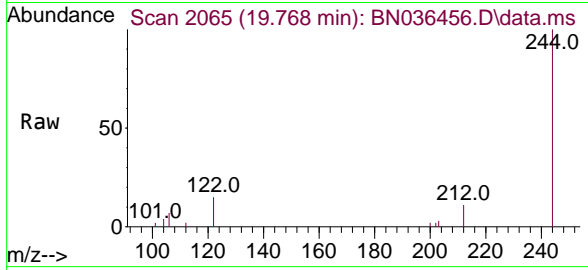




#31
 Terphenyl-d14
 Concen: 0.458 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

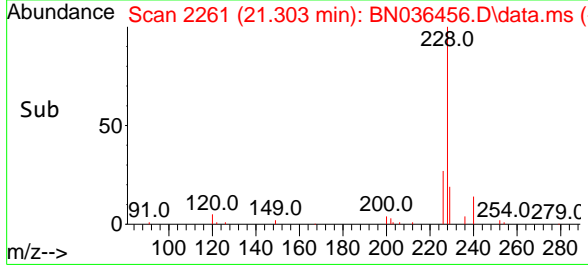
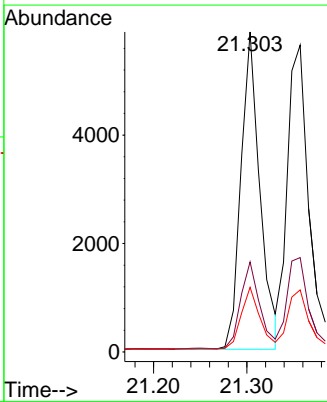
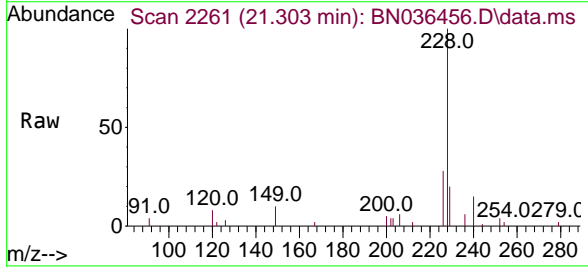
Instrument : BNA_N
 ClientSampleId : PB166675BS

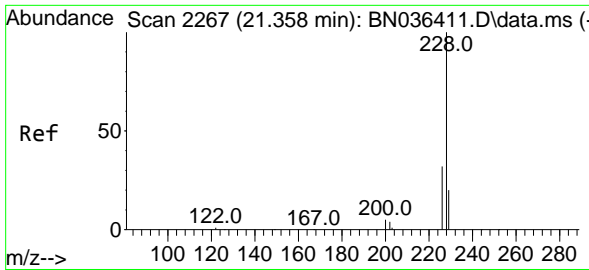
Tgt Ion	Resp	Ion Ratio	Lower	Upper
244	5837	100		
212		10.6	8.1	12.1
122		15.3	12.8	19.2



#32
 Benzo(a)anthracene
 Concen: 0.423 ng
 RT: 21.303 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion	Resp	Ion Ratio	Lower	Upper
228	8299	100		
226		28.2	22.2	33.2
229		20.2	16.5	24.7

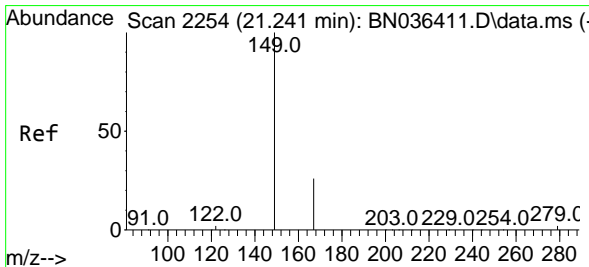
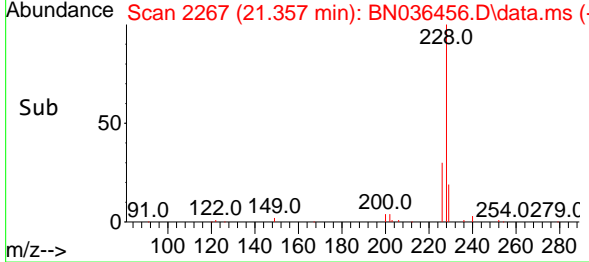
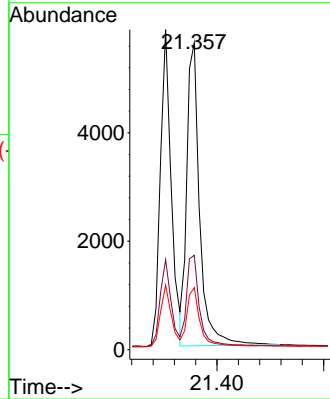
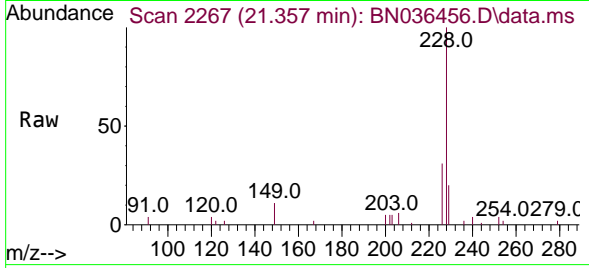




#33
 Chrysene
 Concen: 0.442 ng
 RT: 21.357 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

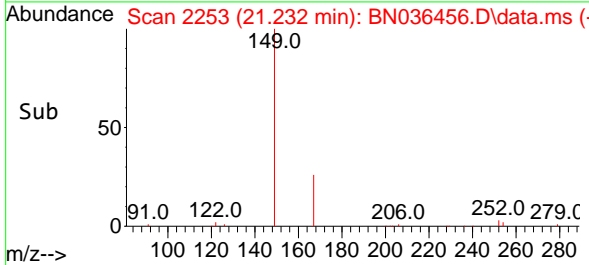
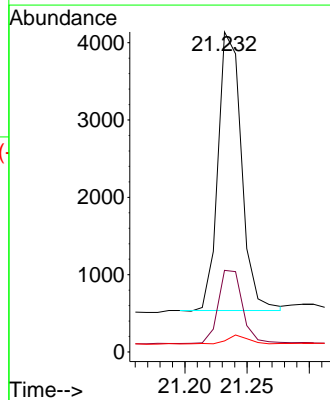
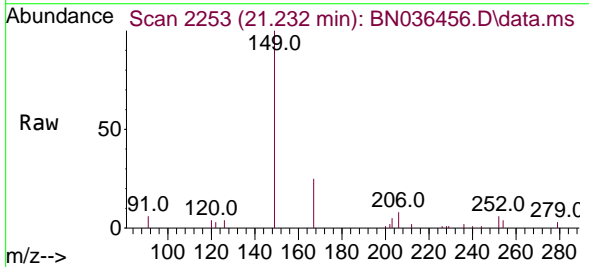
Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

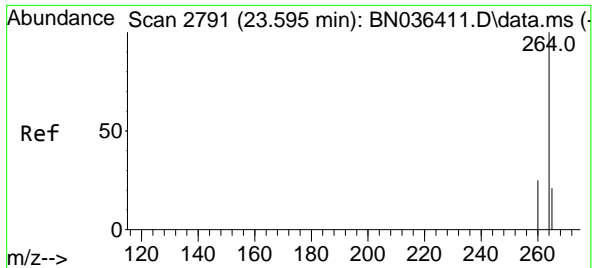
Tgt Ion	Resp	Ion Ratio	Lower	Upper
228	9402	100		
226	30.8	25.5	38.3	
229	20.2	16.4	24.6	



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.387 ng
 RT: 21.232 min Scan# 2253
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

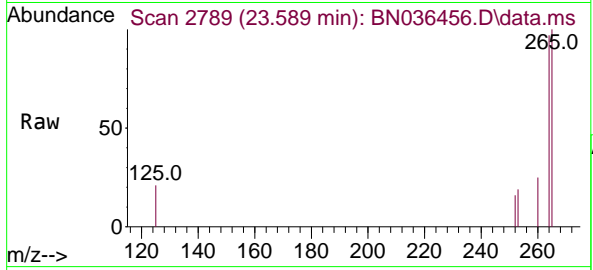
Tgt Ion	Resp	Ion Ratio	Lower	Upper
149	4731	100		
167	27.6	21.2	31.8	
279	2.9	2.7	4.1	



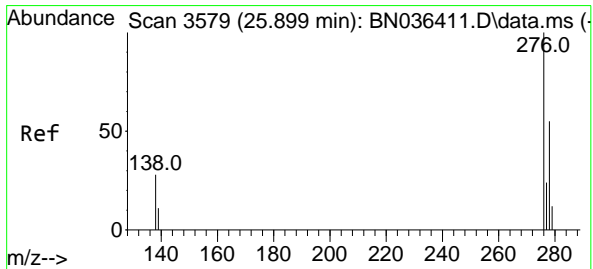
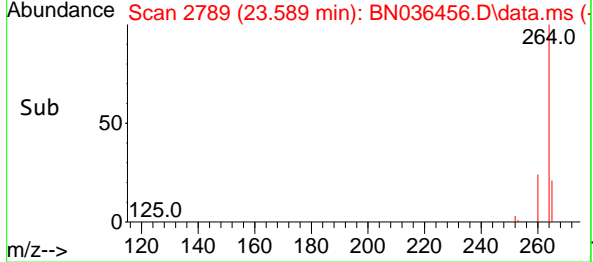
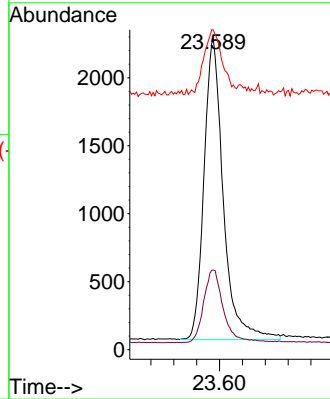


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.589 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS

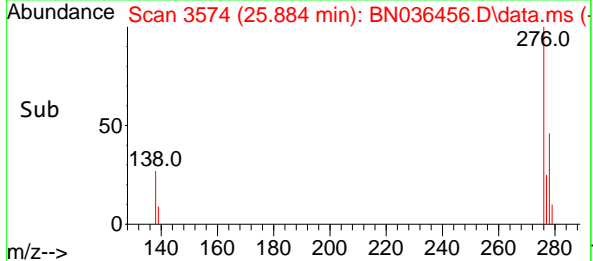
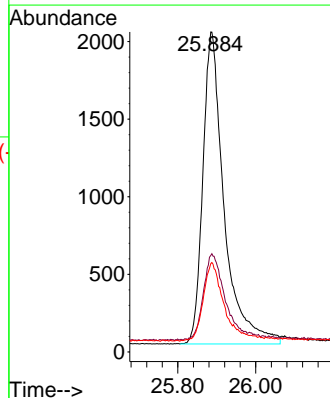
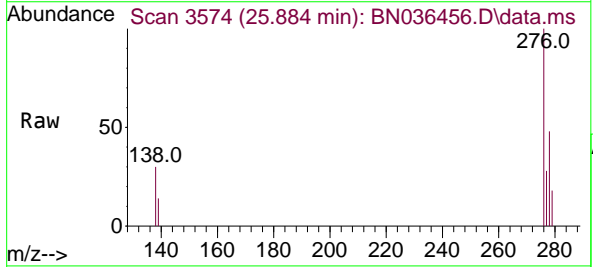


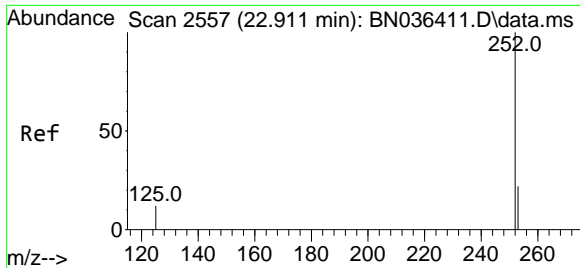
Tgt Ion:264 Resp: 5192
 Ion Ratio Lower Upper
 264 100
 260 25.6 20.9 31.3
 265 102.9 60.7 91.1#



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.421 ng
 RT: 25.884 min Scan# 3574
 Delta R.T. -0.015 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

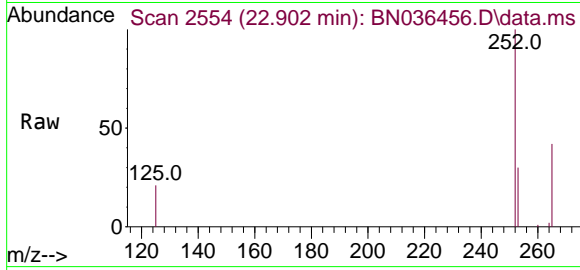
Tgt Ion:276 Resp: 7632
 Ion Ratio Lower Upper
 276 100
 138 27.4 22.2 33.2
 277 24.9 19.8 29.6





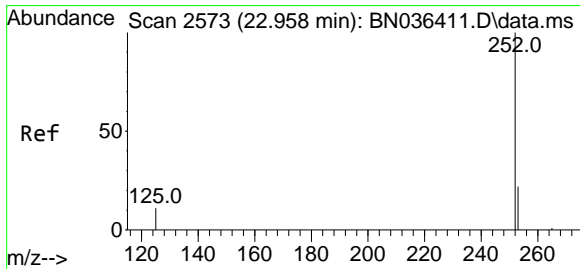
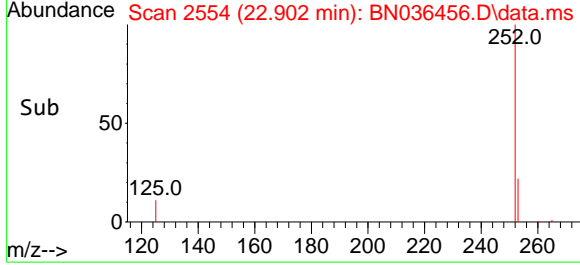
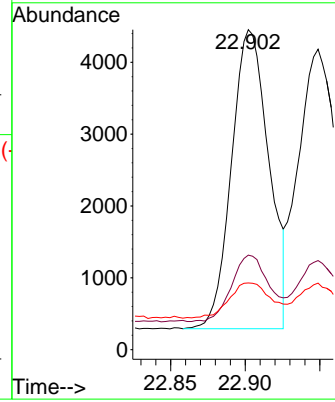
#37
 Benzo(b)fluoranthene
 Concen: 0.425 ng
 RT: 22.902 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument : BNA_N
 ClientSampleId : PB166675BS



Tgt Ion:252 Resp: 7265

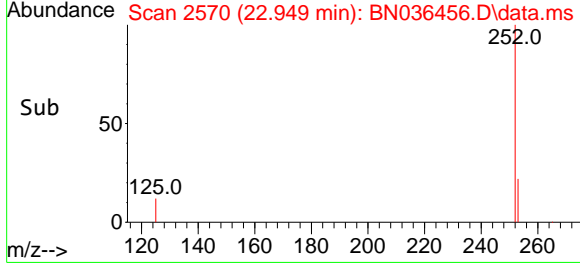
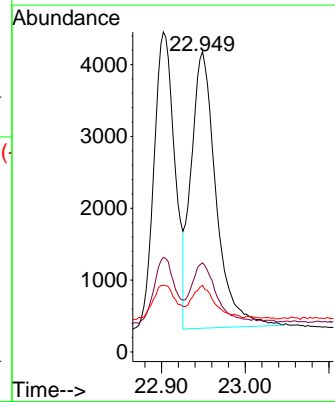
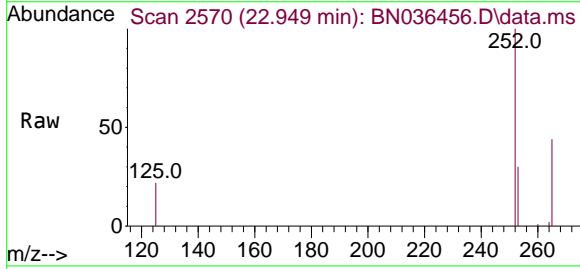
Ion	Ratio	Lower	Upper
252	100		
253	29.5	21.9	32.9
125	20.9	15.0	22.6

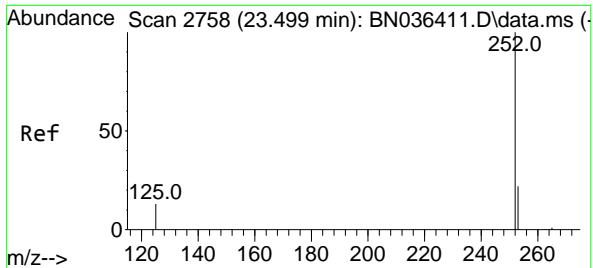


#38
 Benzo(k)fluoranthene
 Concen: 0.452 ng
 RT: 22.949 min Scan# 2570
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Tgt Ion:252 Resp: 7949

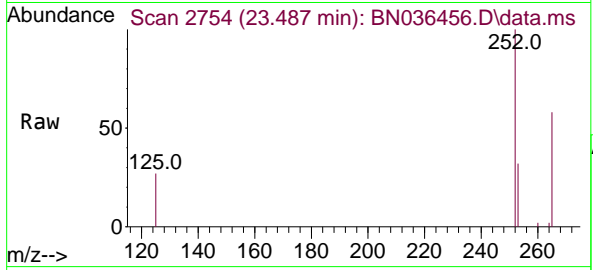
Ion	Ratio	Lower	Upper
252	100		
253	29.7	22.2	33.4
125	22.1	15.0	22.4





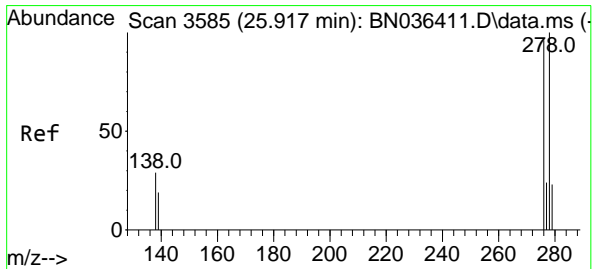
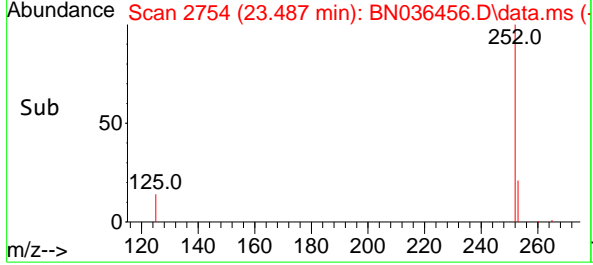
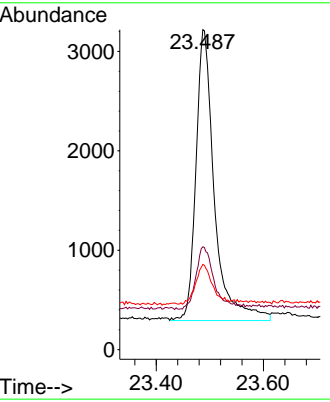
#39
 Benzo(a)pyrene
 Concen: 0.469 ng
 RT: 23.487 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument : BNA_N
 Client Sample Id : PB166675BS

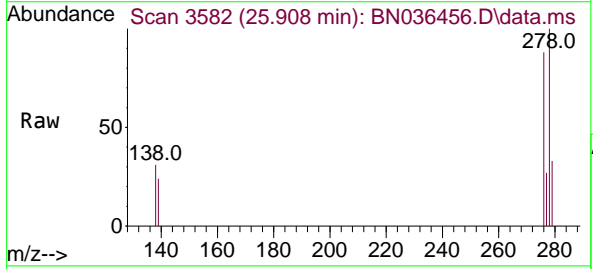


Tgt Ion:252 Resp: 6998

Ion	Ratio	Lower	Upper
252	100		
253	32.1	24.4	36.6
125	26.6	18.2	27.2

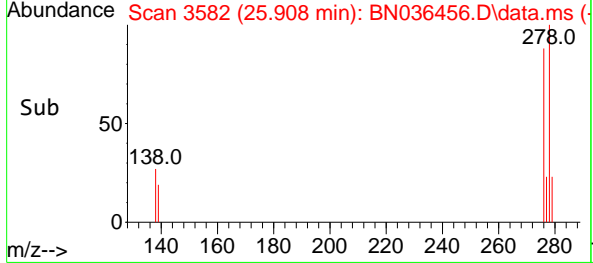
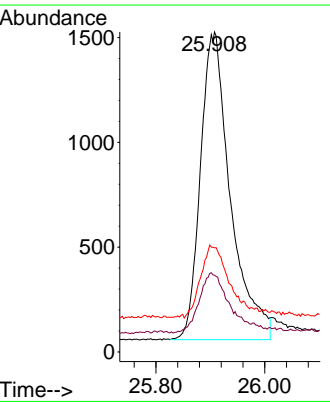


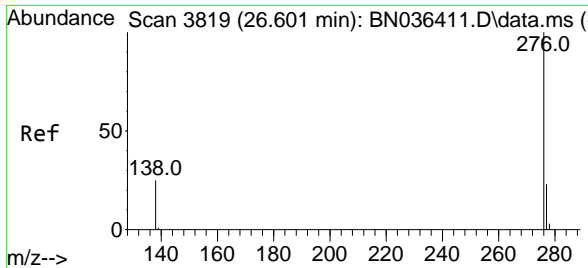
#40
 Dibenzo(a,h)anthracene
 Concen: 0.392 ng
 RT: 25.908 min Scan# 3582
 Delta R.T. -0.009 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47



Tgt Ion:278 Resp: 5616

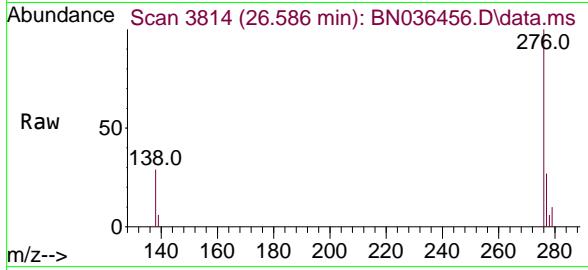
Ion	Ratio	Lower	Upper
278	100		
139	24.0	18.5	27.7
279	32.5	24.8	37.2





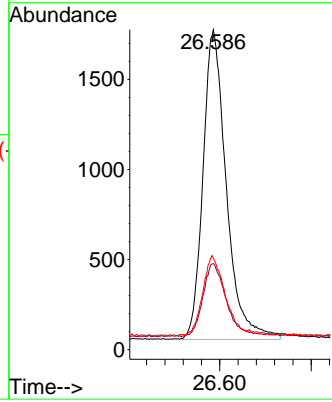
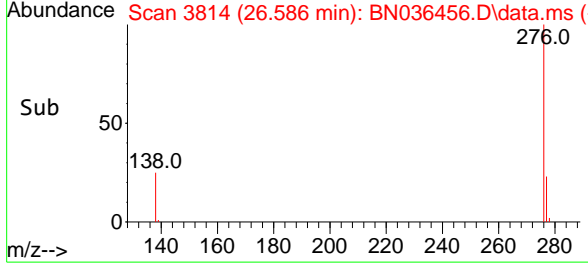
#41
 Benzo(g,h,i)perylene
 Concen: 0.376 ng
 RT: 26.586 min Scan# 3814
 Delta R.T. -0.015 min
 Lab File: BN036456.D
 Acq: 13 Feb 2025 00:47

Instrument :
 BNA_N
 ClientSampleId :
 PB166675BS



Tgt Ion: 276 Resp: 6107

Ion	Ratio	Lower	Upper
276	100		
277	26.9	20.7	31.1
138	28.6	21.8	32.6



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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021225\
 Data File : BN036457.D
 Acq On : 13 Feb 2025 01:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Feb 13 01:53:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

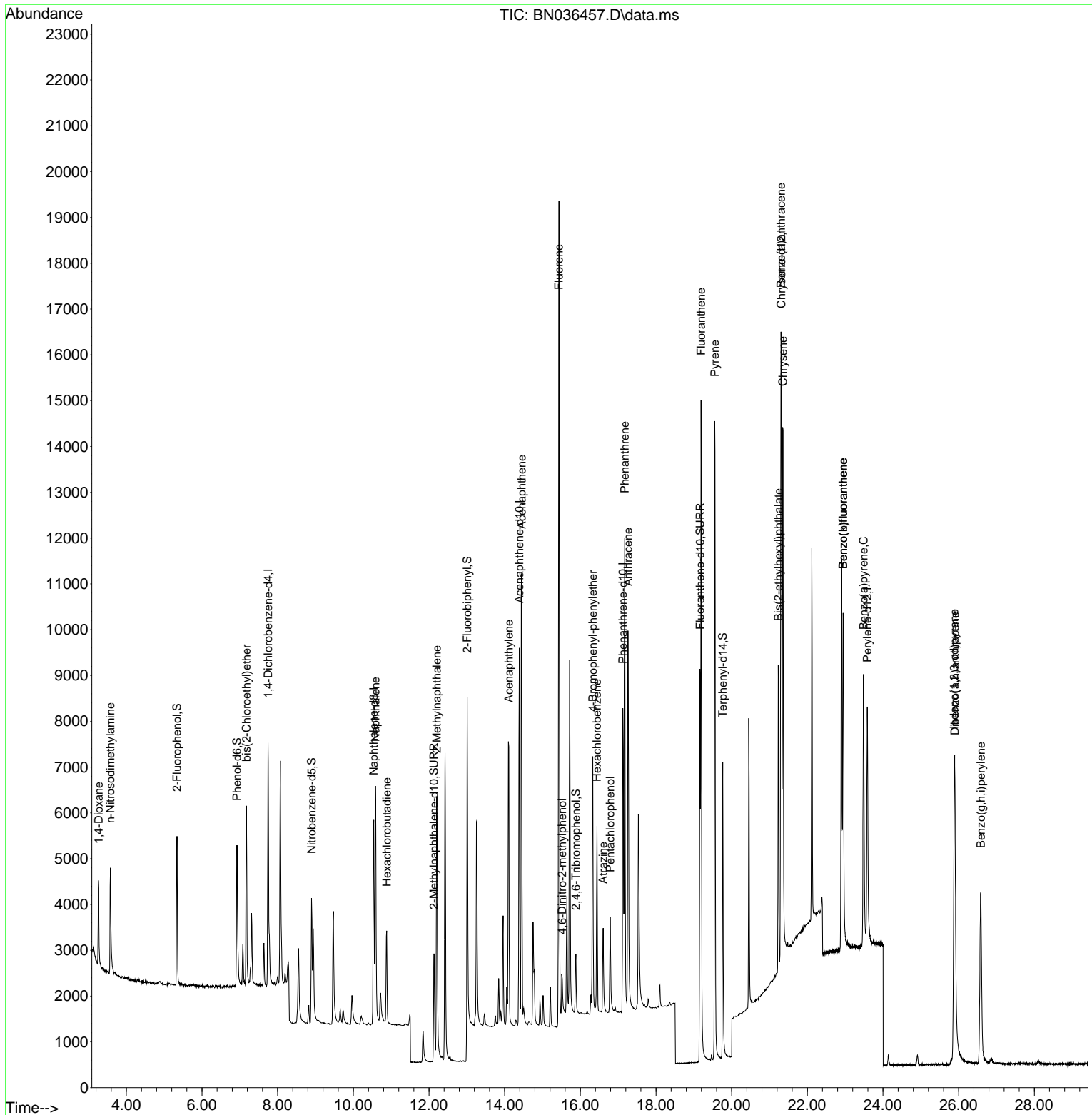
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.746	152	2624	0.400	ng	0.00	
7) Naphthalene-d8	10.541	136	6835	0.400	ng	# 0.00	
13) Acenaphthene-d10	14.388	164	4860	0.400	ng	0.00	
19) Phenanthrene-d10	17.124	188	10226	0.400	ng	#-0.01	
29) Chrysene-d12	21.313	240	8310	0.400	ng	0.00	
35) Perylene-d12	23.587	264	7438	0.400	ng	0.00	
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	2428	0.391	ng	0.00	
5) Phenol-d6	6.923	99	2870	0.394	ng	-0.01	
8) Nitrobenzene-d5	8.897	82	2596	0.385	ng	-0.01	
11) 2-Methylnaphthalene-d10	12.131	152	4140	0.394	ng	-0.01	
14) 2,4,6-Tribromophenol	15.883	330	829	0.344	ng	0.00	
15) 2-Fluorobiphenyl	13.009	172	7055	0.386	ng	-0.01	
27) Fluoranthene-d10	19.164	212	10695	0.376	ng	0.00	
31) Terphenyl-d14	19.764	244	7428	0.419	ng	0.00	
Target Compounds							
2) 1,4-Dioxane	3.268	88	1120	0.390	ng		Qvalue 97
3) n-Nitrosodimethylamine	3.579	42	1966	0.394	ng		96
6) bis(2-Chloroethyl)ether	7.176	93	2948	0.387	ng		99
9) Naphthalene	10.584	128	7591	0.385	ng		99
10) Hexachlorobutadiene	10.883	225	1864	0.388	ng	#	100
12) 2-Methylnaphthalene	12.207	142	5138	0.397	ng		98
16) Acenaphthylene	14.110	152	7797	0.363	ng		99
17) Acenaphthene	14.452	154	5235	0.365	ng		99
18) Fluorene	15.435	166	7538	0.369	ng		99
20) 4,6-Dinitro-2-methylph...	15.523	198	689	0.343	ng	#	79
21) 4-Bromophenyl-phenylether	16.329	248	2408	0.395	ng	#	80
22) Hexachlorobenzene	16.441	284	2984	0.396	ng		98
23) Atrazine	16.603	200	1883	0.370	ng		95
24) Pentachlorophenol	16.789	266	1212	0.339	ng		100
25) Phenanthrene	17.173	178	11424	0.387	ng		100
26) Anthracene	17.260	178	10049	0.386	ng		99
28) Fluoranthene	19.192	202	13554	0.373	ng		99
30) Pyrene	19.555	202	13707	0.428	ng		99
32) Benzo(a)anthracene	21.304	228	10744	0.393	ng		100
33) Chrysene	21.358	228	11936	0.403	ng		98
34) Bis(2-ethylhexyl)phtha...	21.232	149	6561	0.385	ng		100
36) Indeno(1,2,3-cd)pyrene	25.885	276	9602	0.369	ng		98
37) Benzo(b)fluoranthene	22.946	252	10477	0.428	ng		100
38) Benzo(k)fluoranthene	22.946	252	10477	0.416	ng		99
39) Benzo(a)pyrene	23.487	252	8912	0.417	ng	#	92
40) Dibenzo(a,h)anthracene	25.899	278	7254	0.354	ng		99
41) Benzo(g,h,i)perylene	26.583	276	8333	0.358	ng		99

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

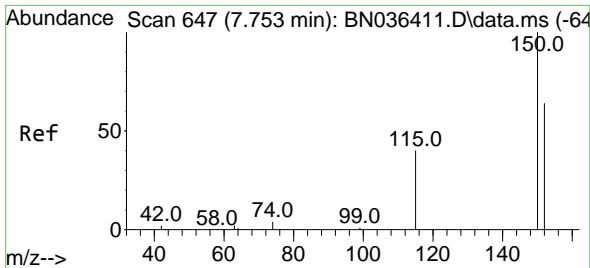
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 Data File : BN036457.D
 Acq On : 13 Feb 2025 01:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Feb 13 01:53:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

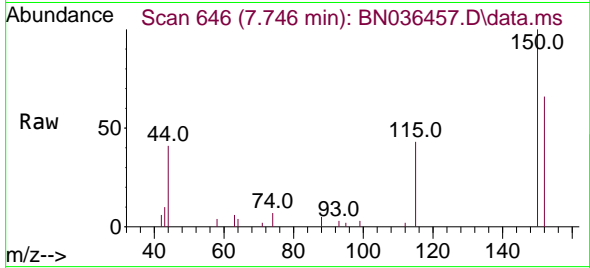


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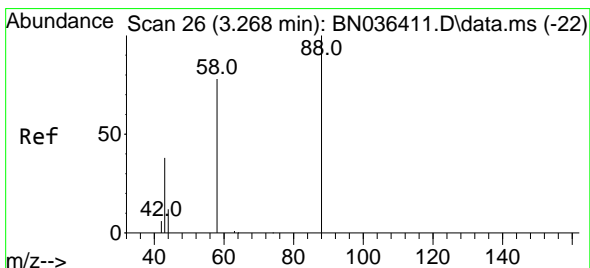
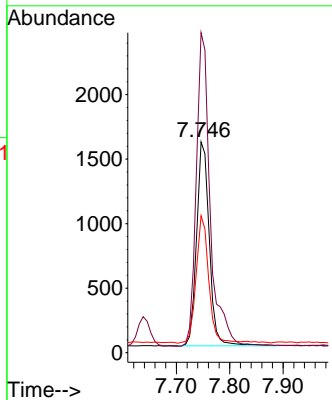
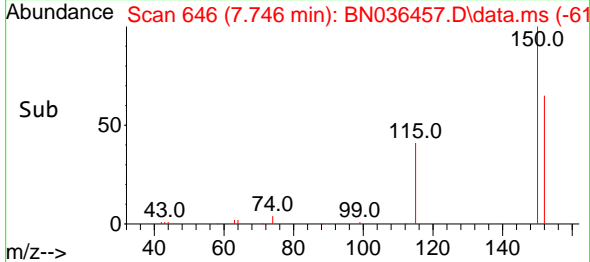


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.746 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

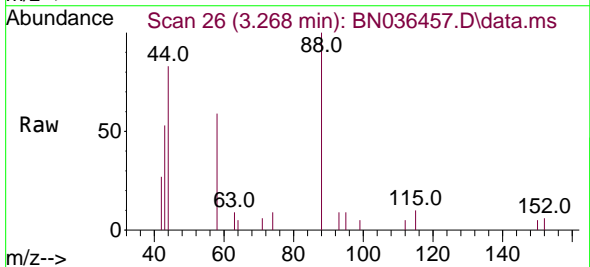
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



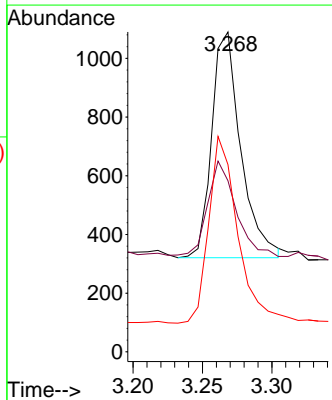
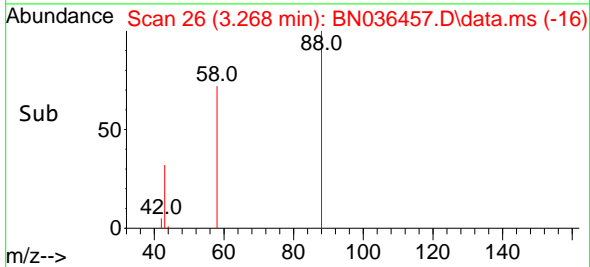
Tgt Ion:152 Resp: 2624
 Ion Ratio Lower Upper
 152 100
 150 151.9 123.7 185.5
 115 65.0 52.5 78.7

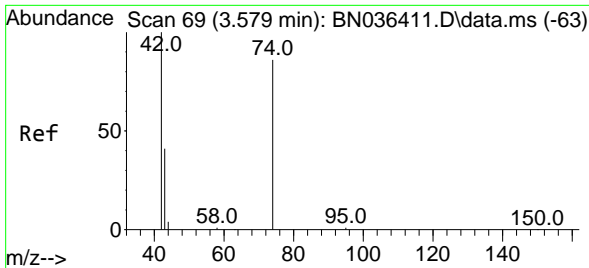


#2
 1,4-Dioxane
 Concen: 0.390 ng
 RT: 3.268 min Scan# 26
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion: 88 Resp: 1120
 Ion Ratio Lower Upper
 88 100
 43 41.2 33.7 50.5
 58 82.1 68.9 103.3



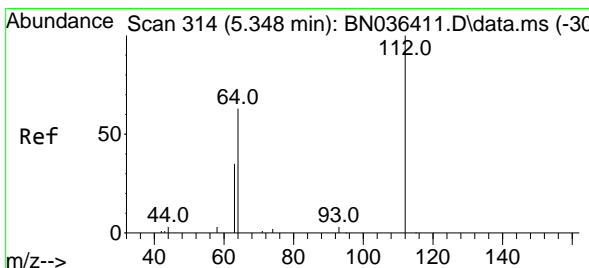
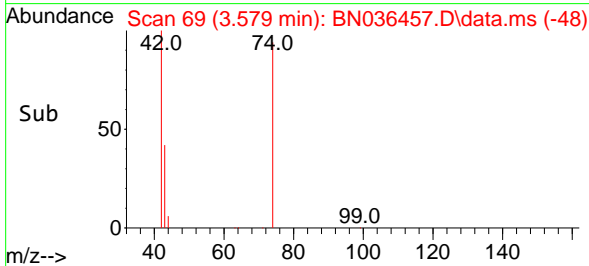
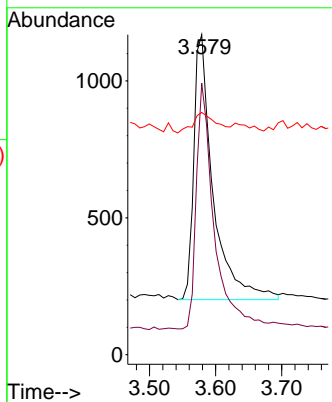
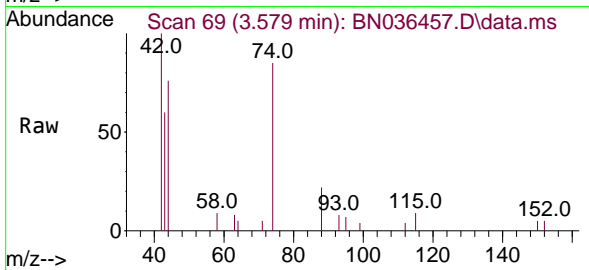


#3
 n-Nitrosodimethylamine
 Concen: 0.394 ng
 RT: 3.579 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1966

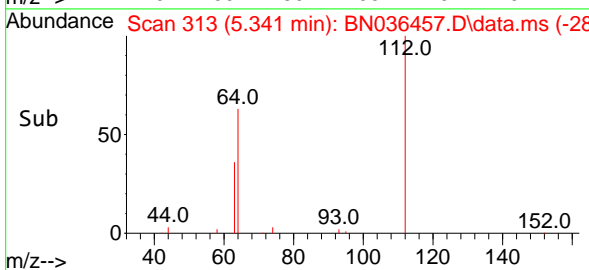
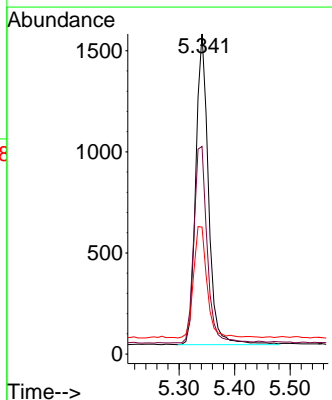
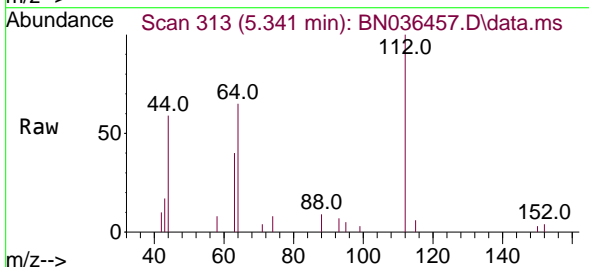
Ion	Ratio	Lower	Upper
42	100		
74	85.8	71.8	107.6
44	9.3	7.8	11.6

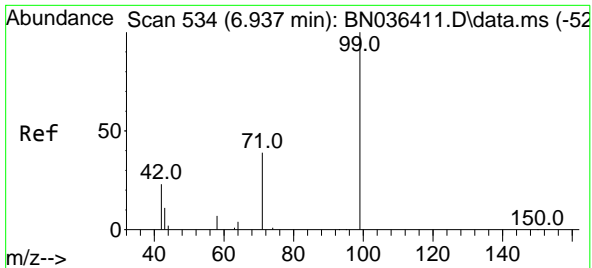


#4
 2-Fluorophenol
 Concen: 0.391 ng
 RT: 5.341 min Scan# 313
 Delta R.T. -0.007 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion: 112 Resp: 2428

Ion	Ratio	Lower	Upper
112	100		
64	66.3	53.4	80.0
63	37.8	30.3	45.5

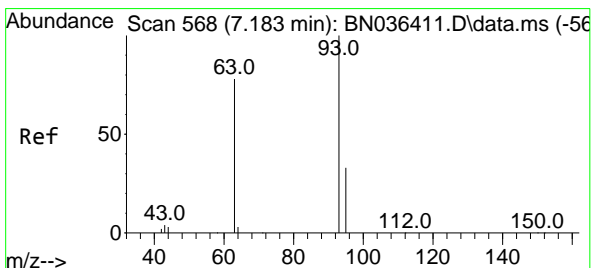
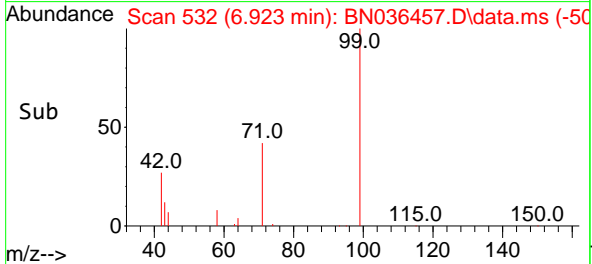
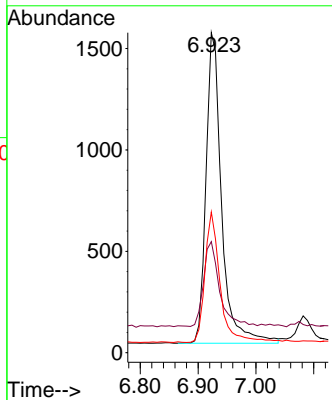
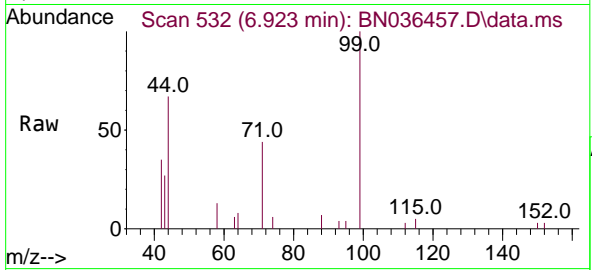




#5
 Phenol-d6
 Concen: 0.394 ng
 RT: 6.923 min Scan# 51
 Delta R.T. -0.014 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

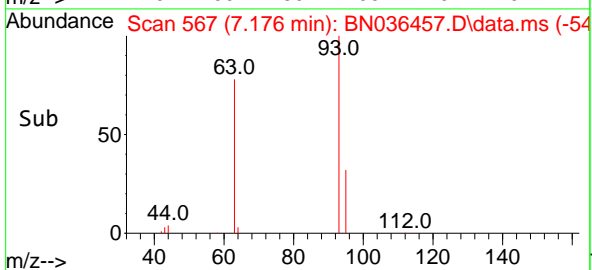
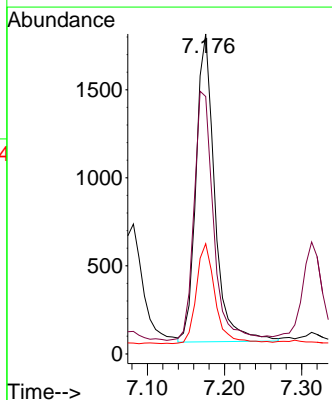
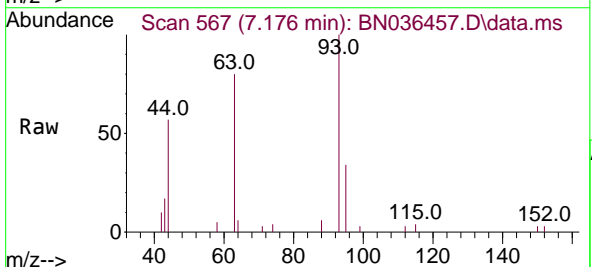
Instrument :
 BNA_N
 ClientSampleId :
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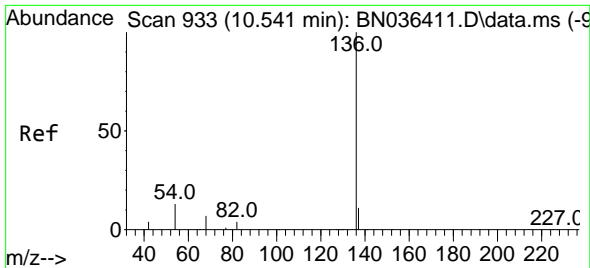
Tgt Ion	Resp	Ion Ratio	Lower	Upper
99	2870	100		
42	28.0	21.7	32.5	
71	41.1	32.6	49.0	



#6
 bis(2-Chloroethyl)ether
 Concen: 0.387 ng
 RT: 7.176 min Scan# 567
 Delta R.T. -0.007 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion	Resp	Ion Ratio	Lower	Upper
93	2948	100		
63	83.9	66.3	99.5	
95	32.7	26.2	39.4	

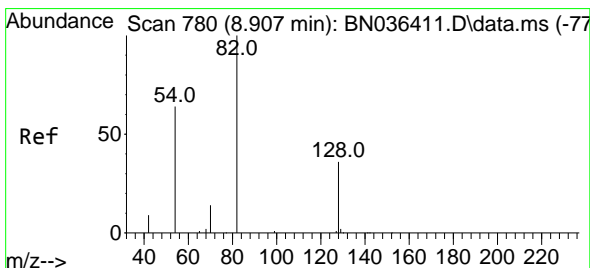
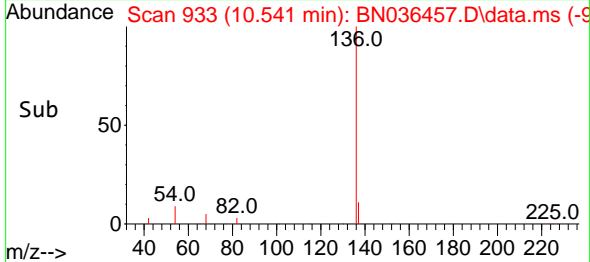
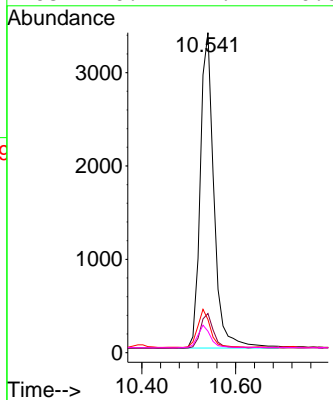
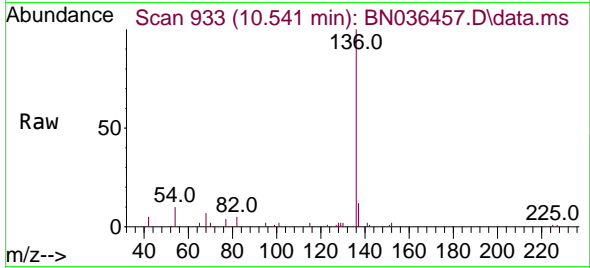




#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.541 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

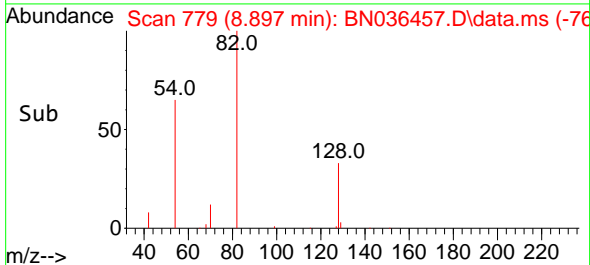
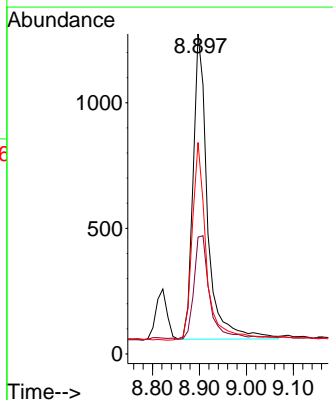
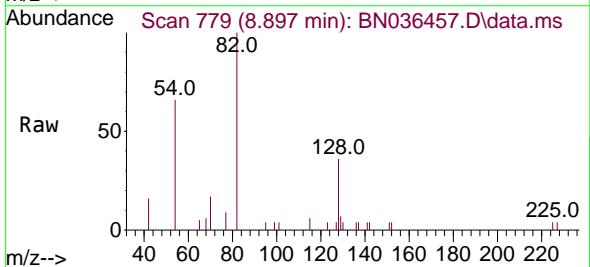
Instrument :
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 ClientSampleId :
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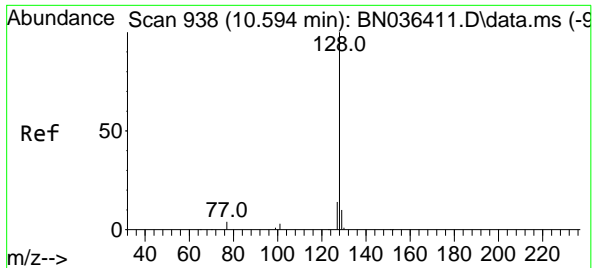
Tgt Ion	Resp	Lower	Upper
136	6835		
137	12.3	10.1	15.1
54	10.4	11.8	17.6#
68	6.7	7.2	10.8#



#8
 Nitrobenzene-d5
 Concen: 0.385 ng
 RT: 8.897 min Scan# 779
 Delta R.T. -0.011 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion	Resp	Lower	Upper
82	2596		
128	36.5	31.9	47.9
54	66.1	53.1	79.7



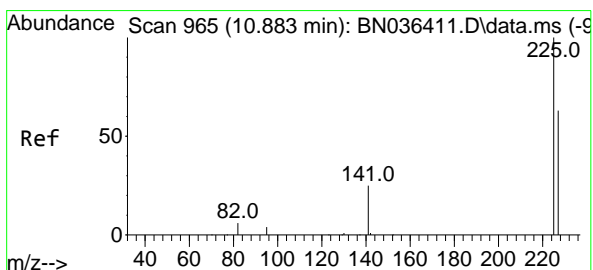
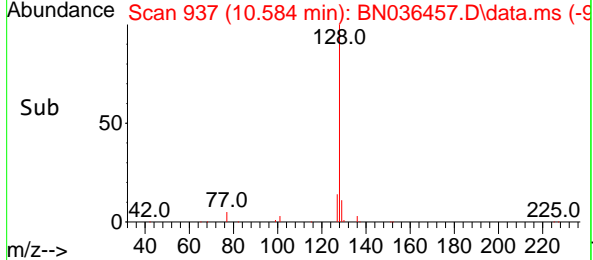
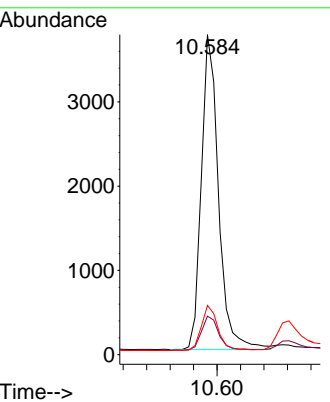
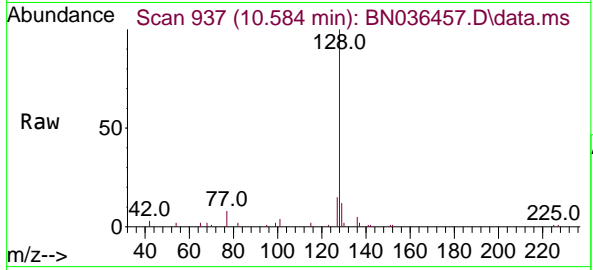


#9
 Naphthalene
 Concen: 0.385 ng
 RT: 10.584 min Scan# 911
 Delta R.T. -0.011 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion:128 Resp: 7591

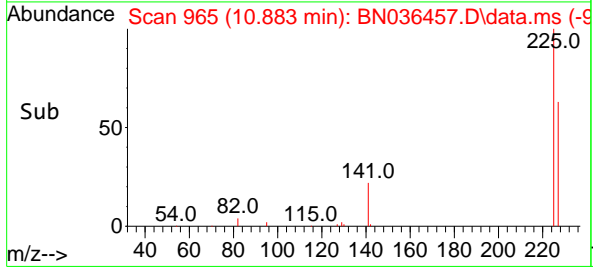
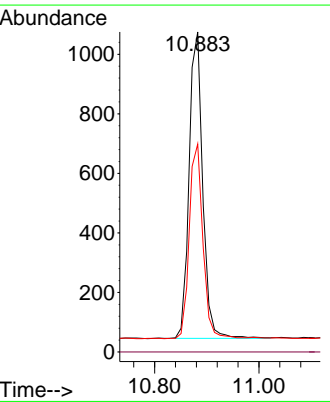
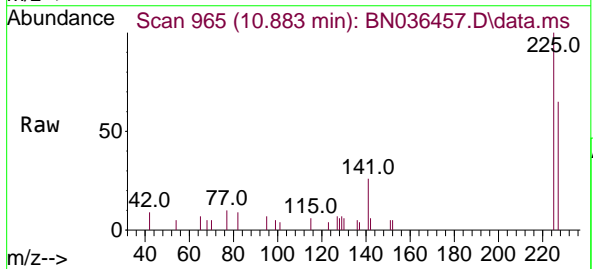
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.6	14.4
127	15.4	12.0	18.0

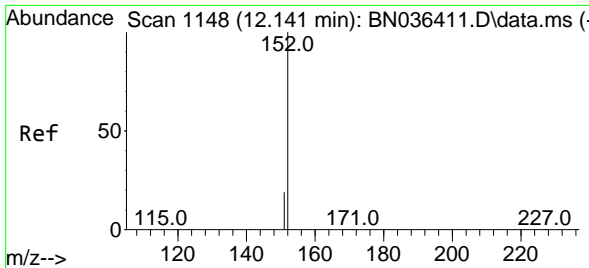


#10
 Hexachlorobutadiene
 Concen: 0.388 ng
 RT: 10.883 min Scan# 965
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion:225 Resp: 1864

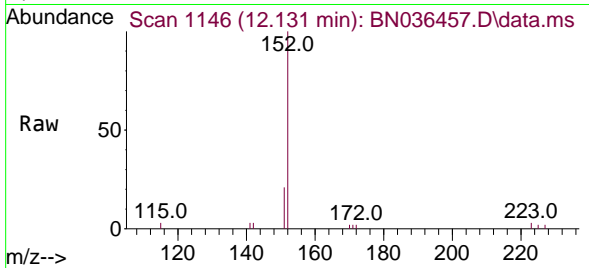
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.9	76.3



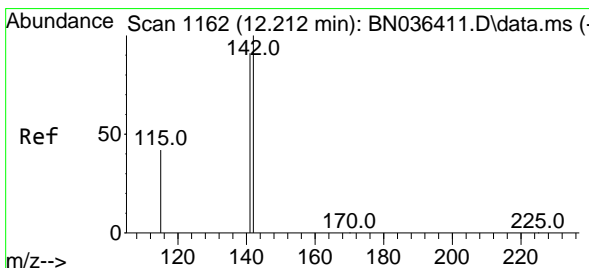
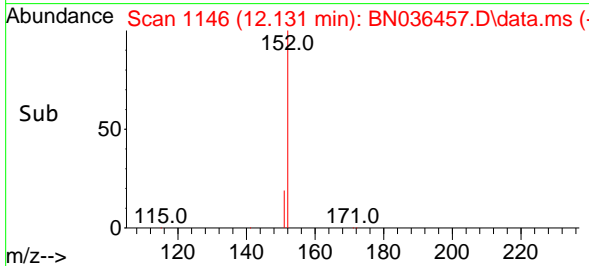
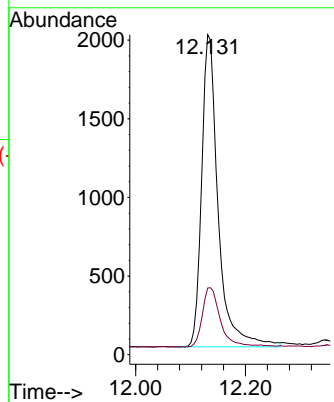


#11
 2-Methylnaphthalene-d10
 Concen: 0.394 ng
 RT: 12.131 min Scan# 1146
 Delta R.T. -0.010 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

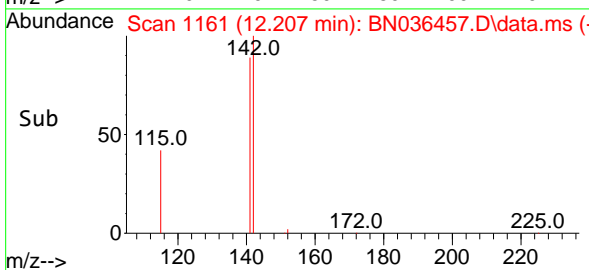
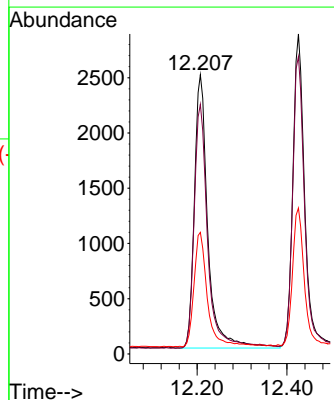
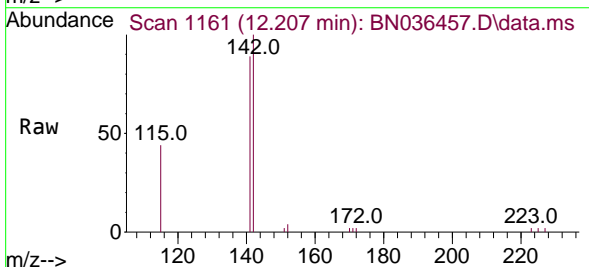


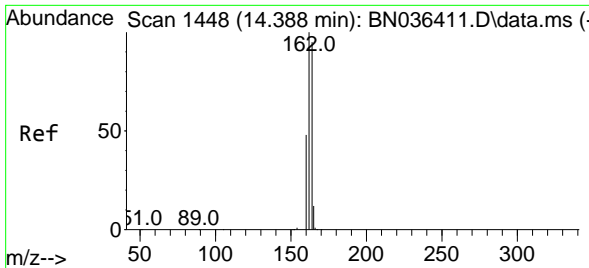
Tgt Ion:152 Resp: 4140
 Ion Ratio Lower Upper
 152 100
 151 21.1 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.397 ng
 RT: 12.207 min Scan# 1161
 Delta R.T. -0.005 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

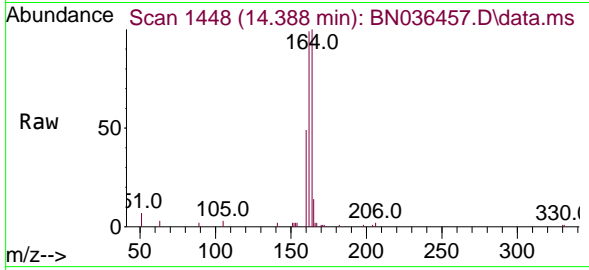
Tgt Ion:142 Resp: 5138
 Ion Ratio Lower Upper
 142 100
 141 89.4 72.8 109.2
 115 43.6 35.5 53.3



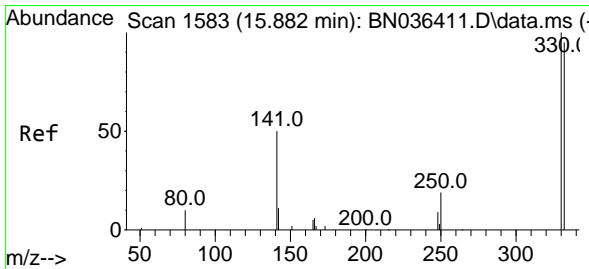
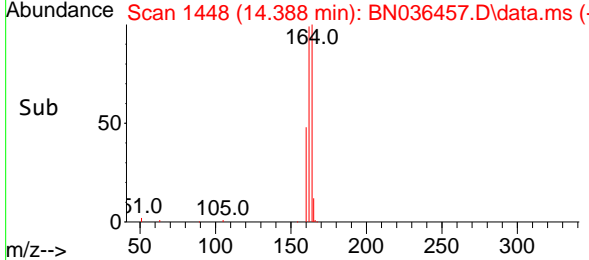
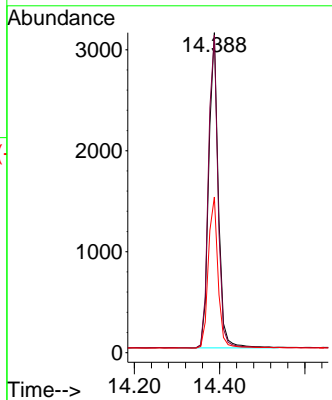


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.388 min Scan# 1448
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

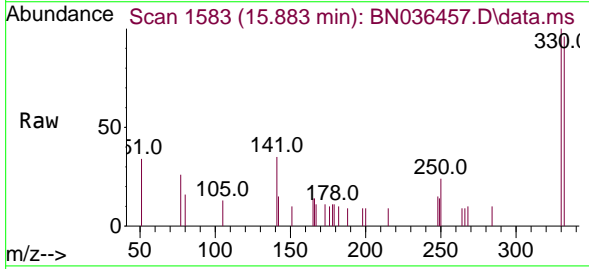
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC



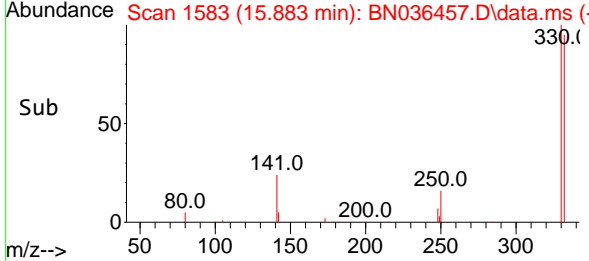
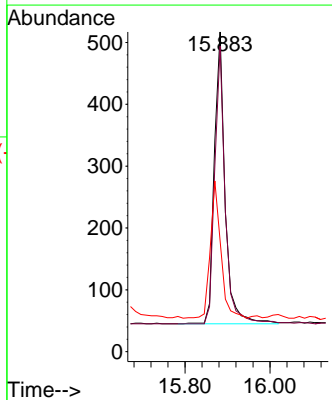
Tgt Ion	Resp	Ion Ratio	Lower	Upper
164	4860	100		
162	99.2	84.1	126.1	
160	48.7	41.4	62.0	

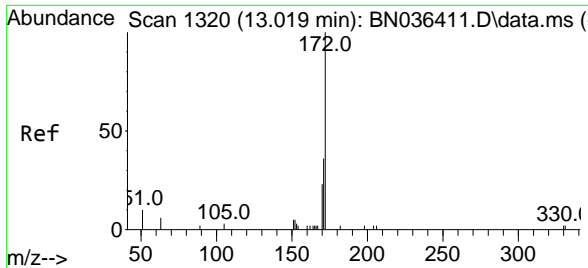


#14
 2,4,6-Tribromophenol
 Concen: 0.344 ng
 RT: 15.883 min Scan# 1583
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23



Tgt Ion	Resp	Ion Ratio	Lower	Upper
330	829	100		
332	92.8	76.6	114.8	
141	45.8	37.8	56.8	



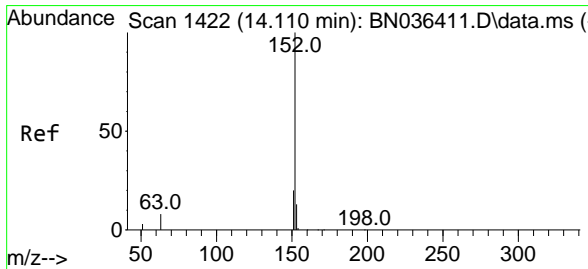
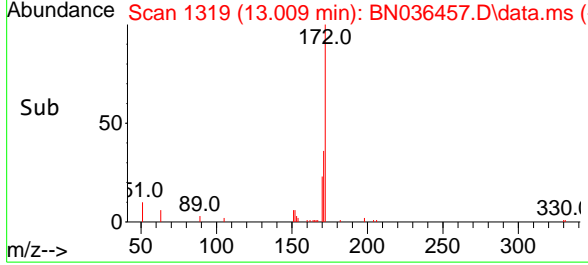
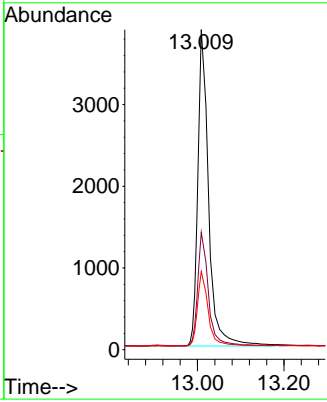
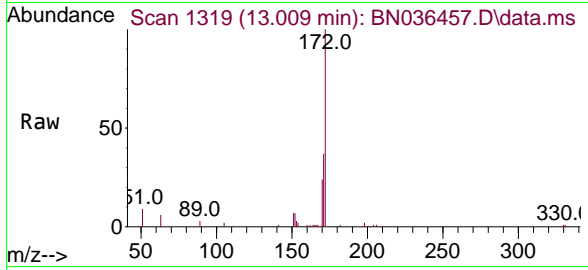


#15
 2-Fluorobiphenyl
 Concen: 0.386 ng
 RT: 13.009 min Scan# 11
 Delta R.T. -0.011 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion:172 Resp: 7055

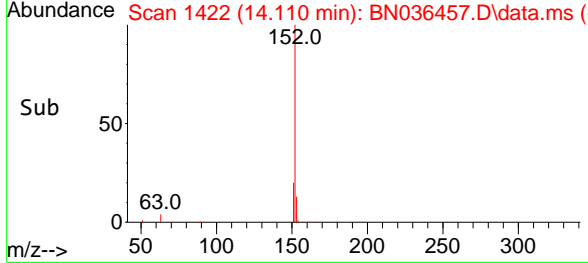
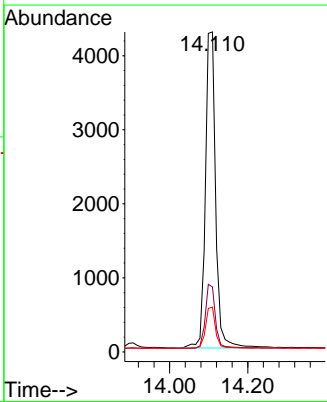
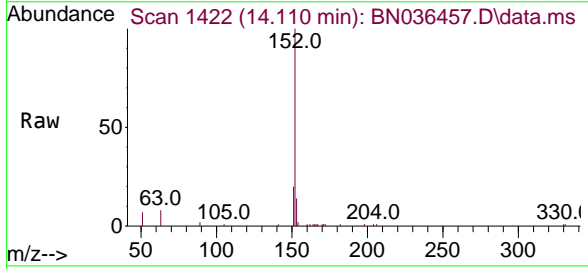
Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.6	44.4
170	24.5	19.8	29.6

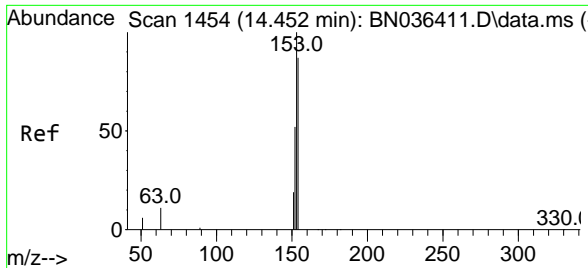


#16
 Acenaphthylene
 Concen: 0.363 ng
 RT: 14.110 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion:152 Resp: 7797

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8
153	12.8	10.2	15.2

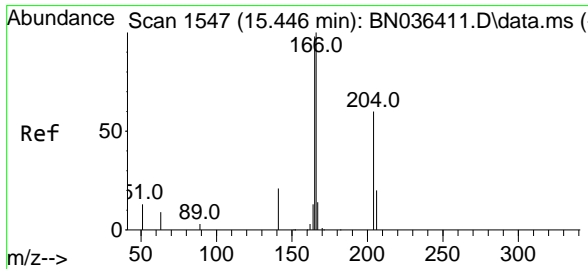
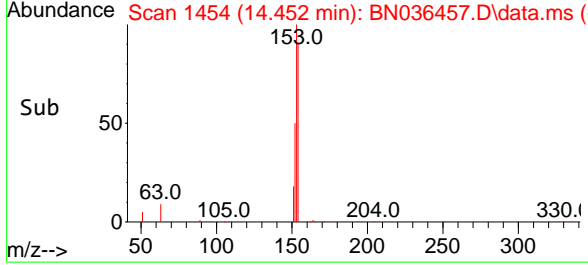
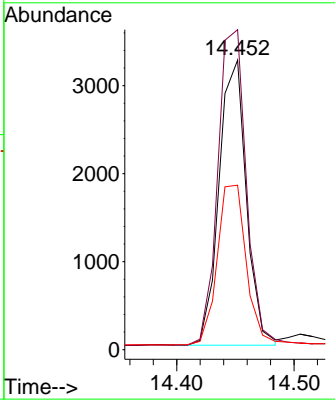
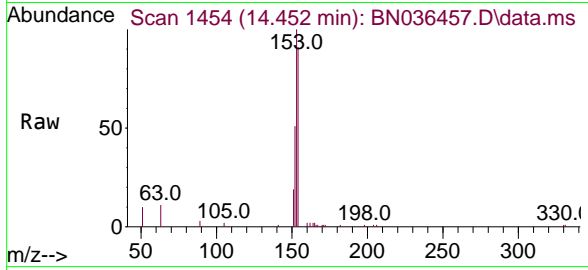




#17
 Acenaphthene
 Concen: 0.365 ng
 RT: 14.452 min Scan# 14
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

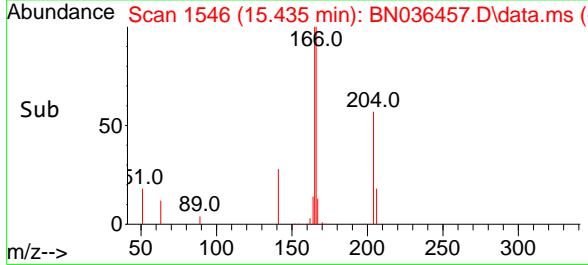
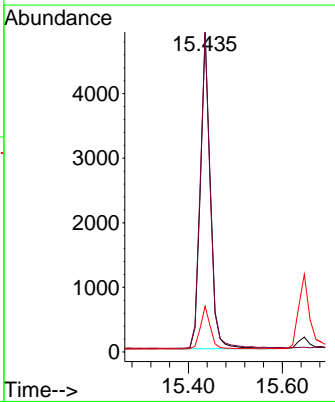
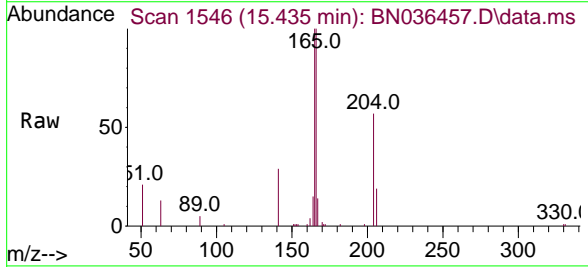
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

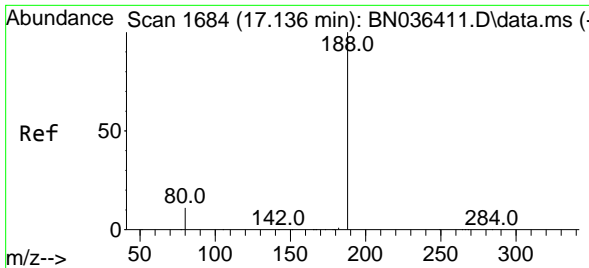
Tgt Ion	Resp	Lower	Upper
154	5235		
153	117.7	93.3	139.9
152	61.0	48.8	73.2



#18
 Fluorene
 Concen: 0.369 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion	Resp	Lower	Upper
166	7538		
165	100.5	79.5	119.3
167	13.3	10.4	15.6



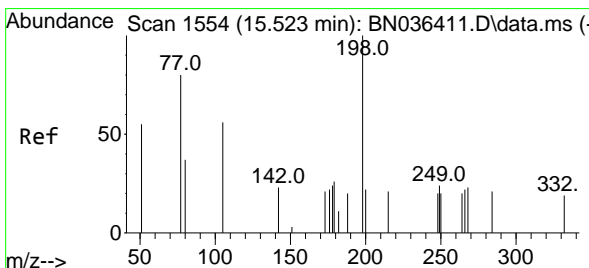
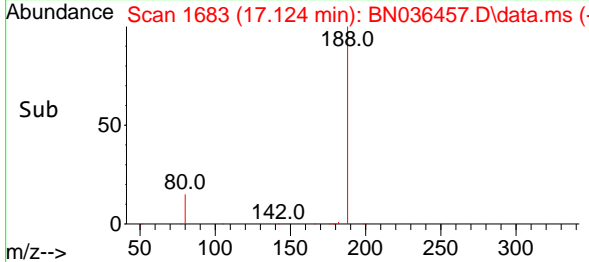
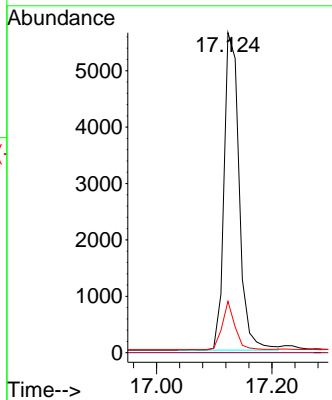
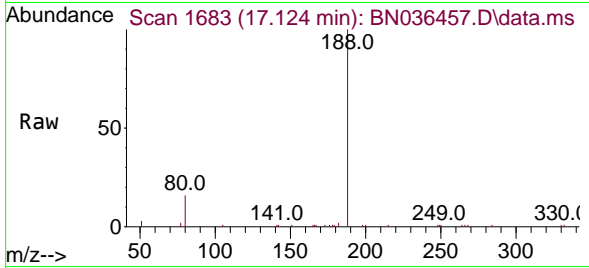


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.124 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Tgt Ion:188 Resp: 10226

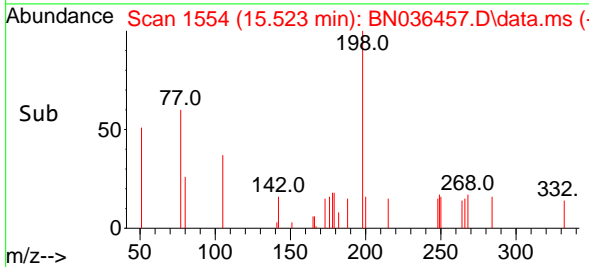
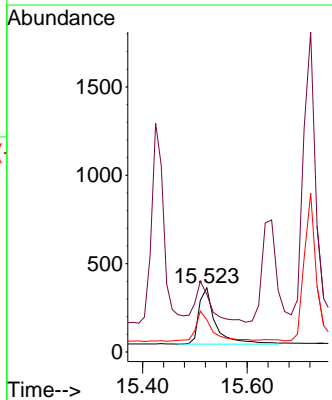
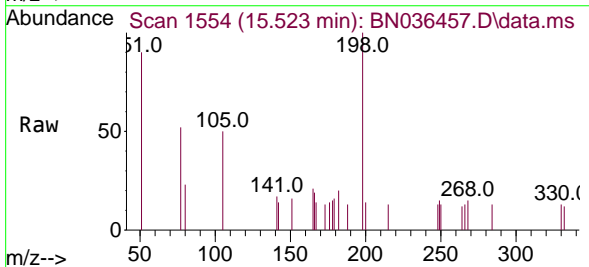
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.1	9.8	14.6#

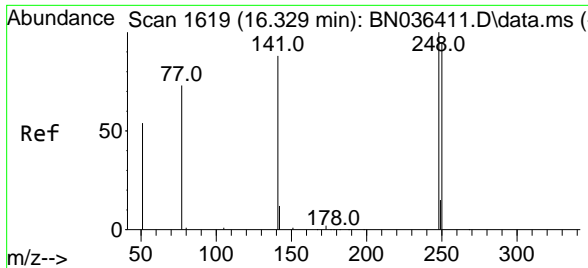


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.343 ng
 RT: 15.523 min Scan# 1554
 Delta R.T. -0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion:198 Resp: 689

Ion	Ratio	Lower	Upper
198	100		
51	89.8	86.6	129.8
105	50.1	57.5	86.3#

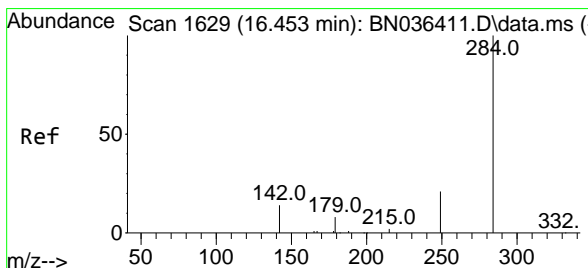
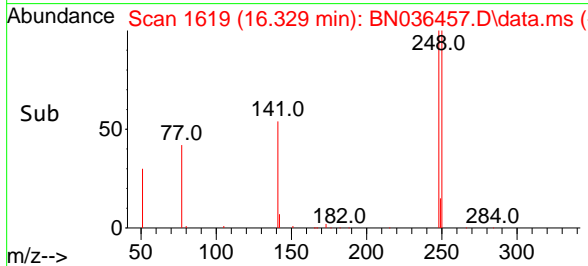
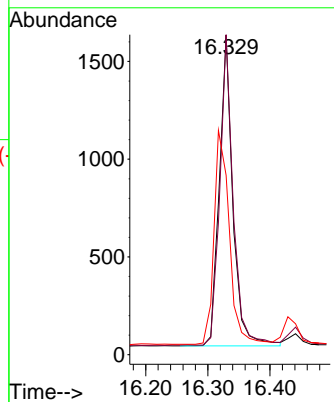
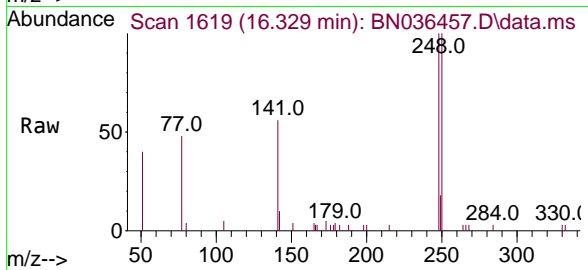




#21
 4-Bromophenyl-phenylether
 Concen: 0.395 ng
 RT: 16.329 min Scan# 1619
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

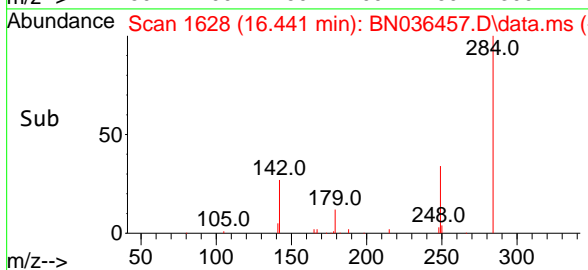
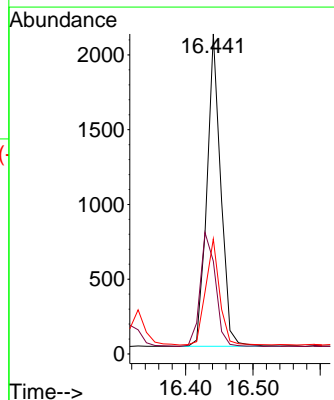
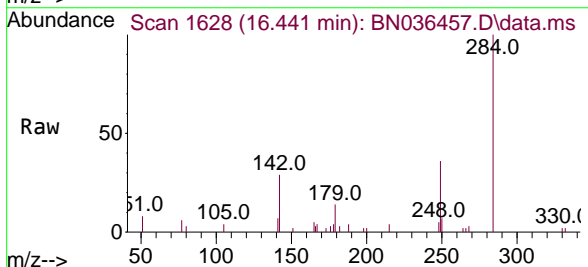
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

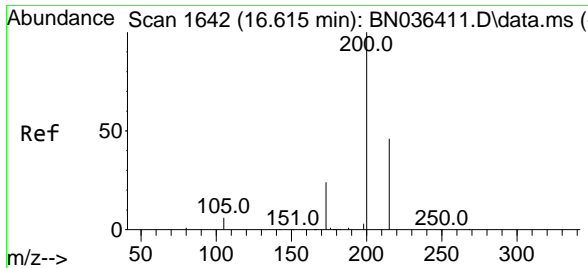
Tgt Ion:248 Resp: 2408
 Ion Ratio Lower Upper
 248 100
 250 100.1 76.1 114.1
 141 56.1 71.7 107.5#



#22
 Hexachlorobenzene
 Concen: 0.396 ng
 RT: 16.441 min Scan# 1628
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion:284 Resp: 2984
 Ion Ratio Lower Upper
 284 100
 142 40.5 33.4 50.0
 249 34.5 28.6 43.0



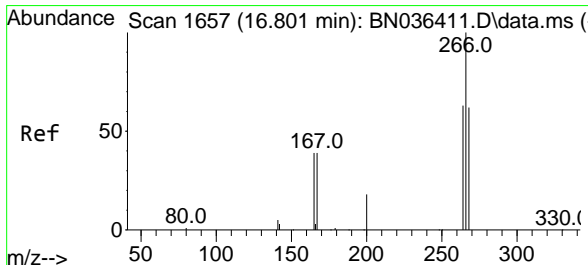
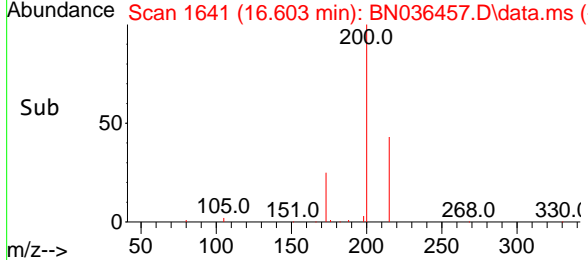
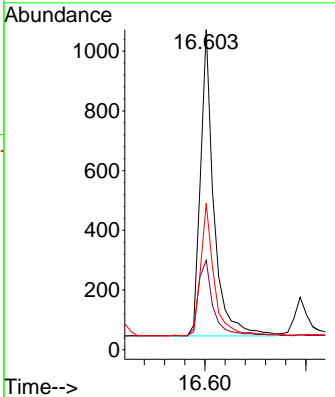
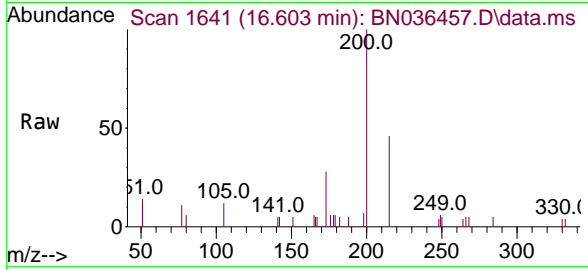


#23
 Atrazine
 Concen: 0.370 ng
 RT: 16.603 min Scan# 1641
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion: 200 Resp: 1883

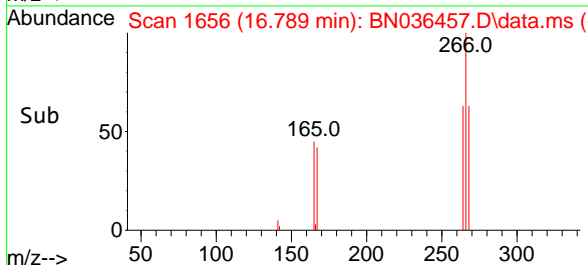
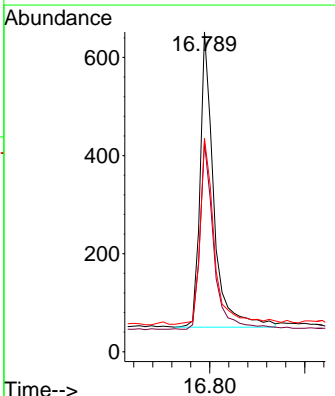
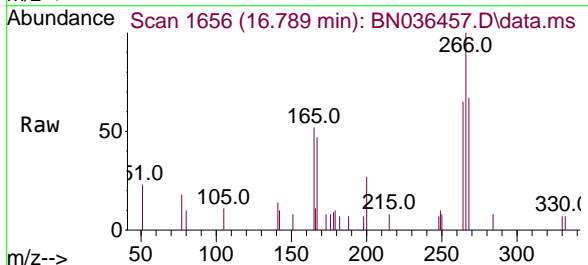
Ion	Ratio	Lower	Upper
200	100		
173	28.0	23.2	34.8
215	45.7	40.0	60.0

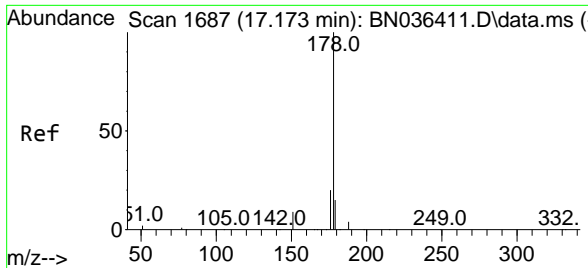


#24
 Pentachlorophenol
 Concen: 0.339 ng
 RT: 16.789 min Scan# 1656
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion: 266 Resp: 1212

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.6	76.0
268	65.2	51.9	77.9

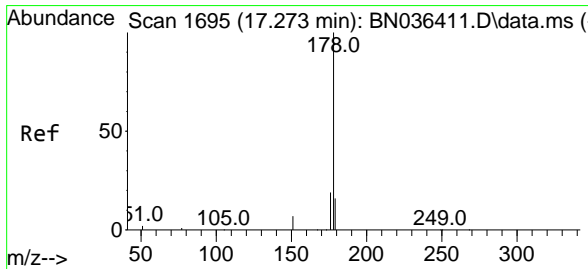
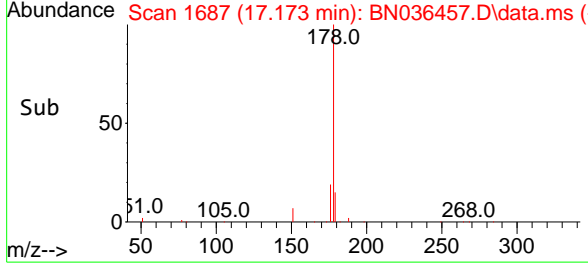
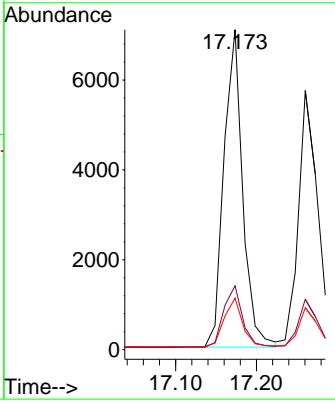
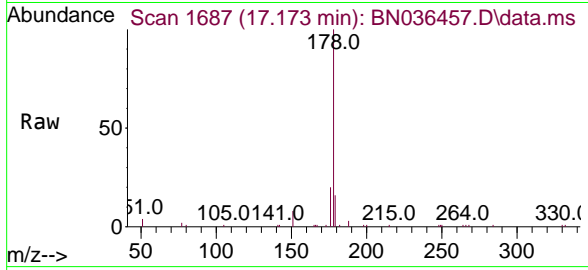




#25
 Phenanthrene
 Concen: 0.387 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

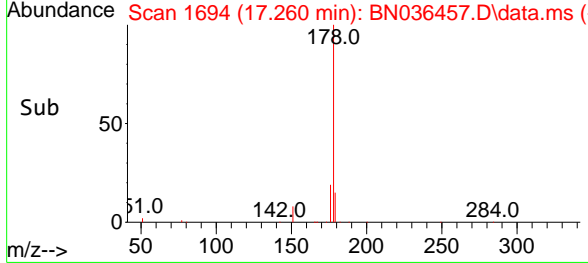
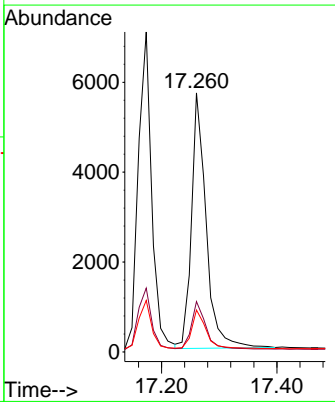
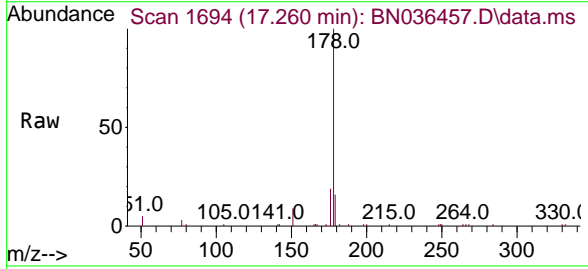
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

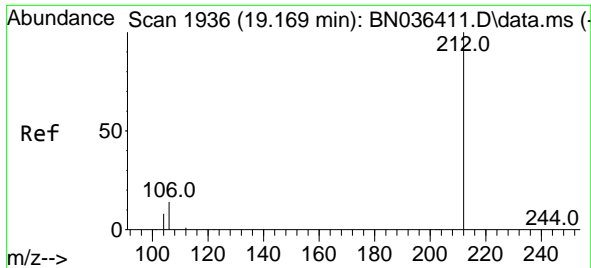
Tgt Ion	Resp	Lower	Upper
178	11424		
176	19.7	15.7	23.5
179	15.1	12.4	18.6



#26
 Anthracene
 Concen: 0.386 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion	Resp	Lower	Upper
178	10049		
176	18.4	14.9	22.3
179	15.2	12.4	18.6



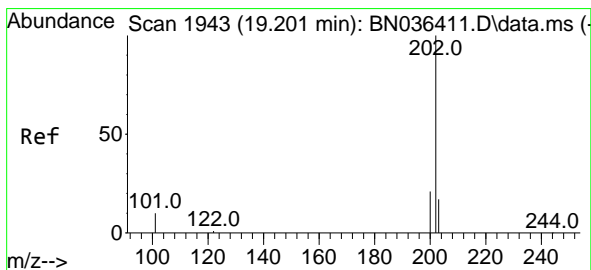
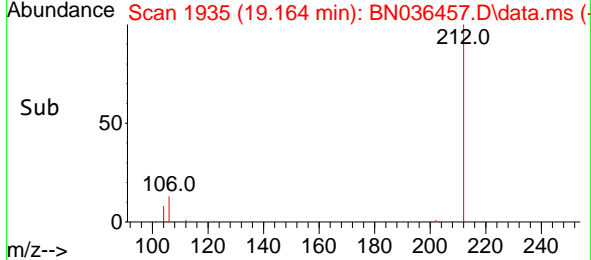
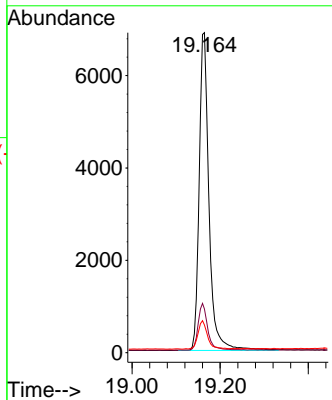
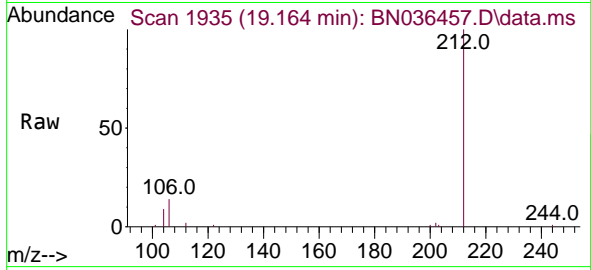


#27
 Fluoranthene-d10
 Concen: 0.376 ng
 RT: 19.164 min Scan# 1935
 Delta R.T. -0.005 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion: 212 Resp: 10695

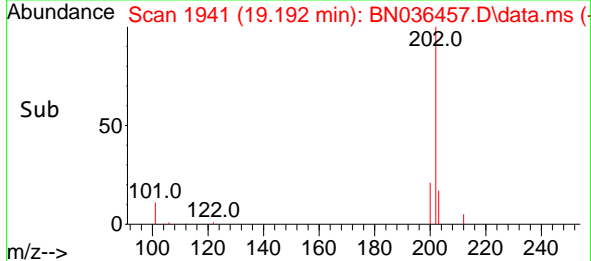
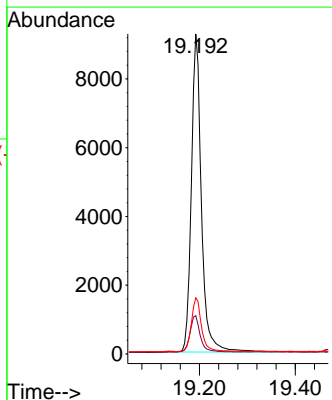
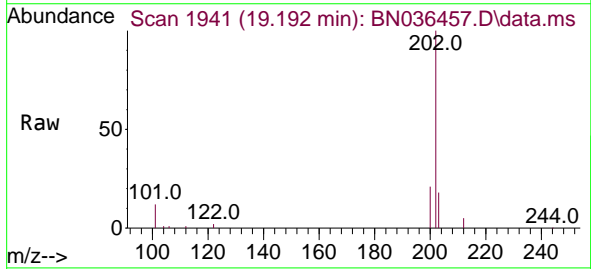
Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.5	17.3
104	8.7	7.1	10.7

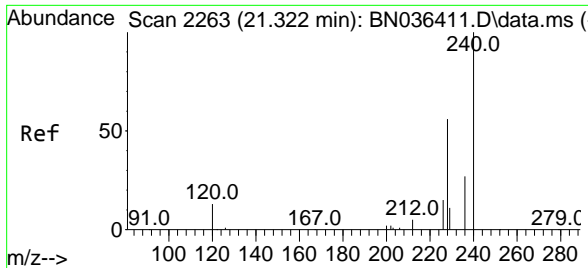


#28
 Fluoranthene
 Concen: 0.373 ng
 RT: 19.192 min Scan# 1941
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion: 202 Resp: 13554

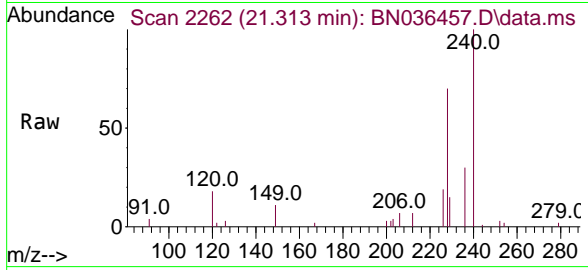
Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.2	13.8
203	17.1	13.4	20.0





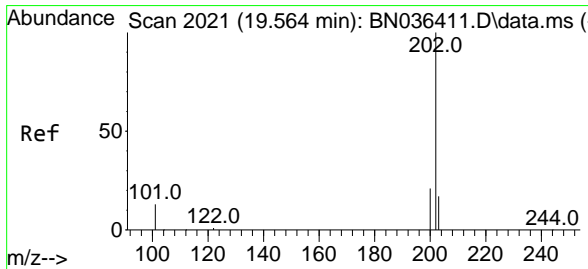
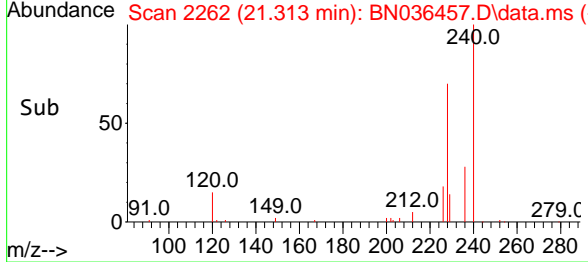
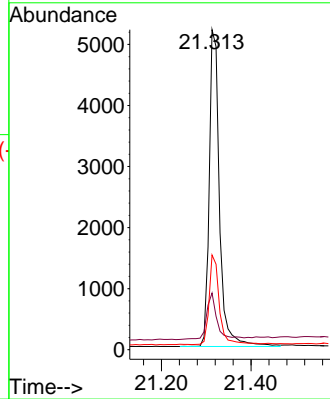
#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.313 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion: 240 Resp: 8310

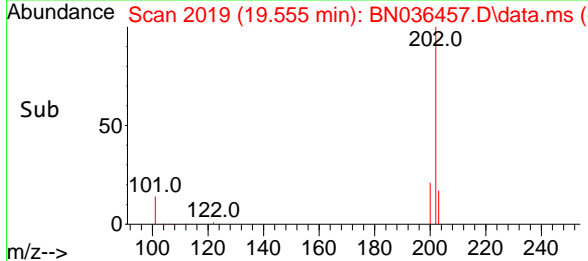
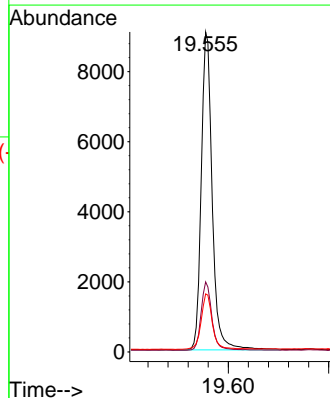
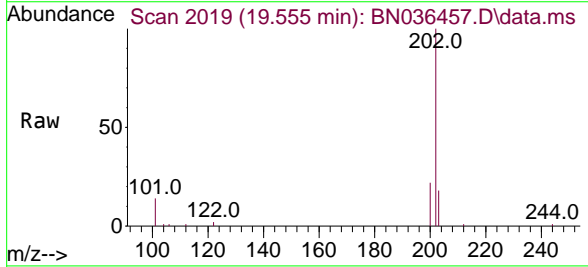
Ion	Ratio	Lower	Upper
240	100		
120	17.7	13.3	19.9
236	29.6	23.0	34.6

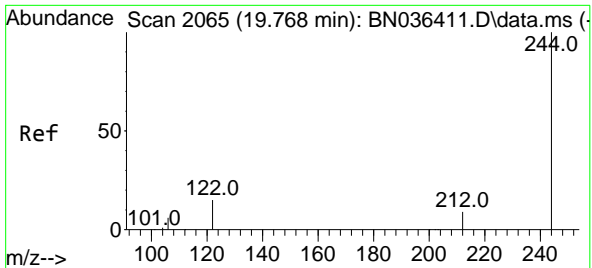


#30
 Pyrene
 Concen: 0.428 ng
 RT: 19.555 min Scan# 2019
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion: 202 Resp: 13707

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	18.0	13.9	20.9

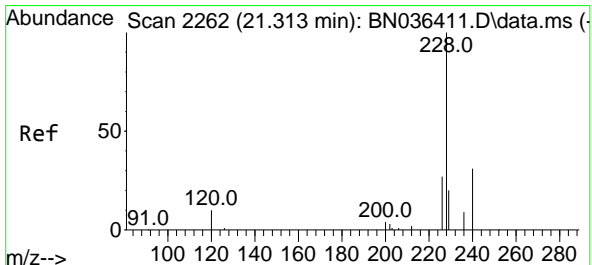
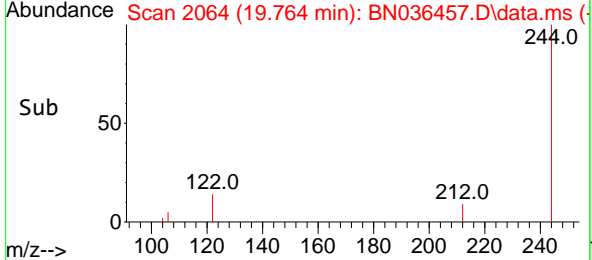
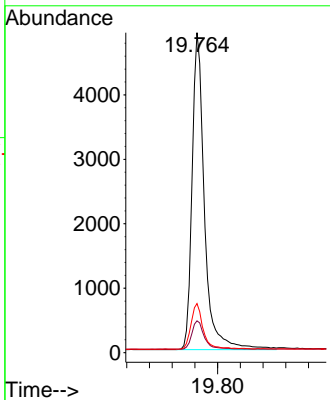
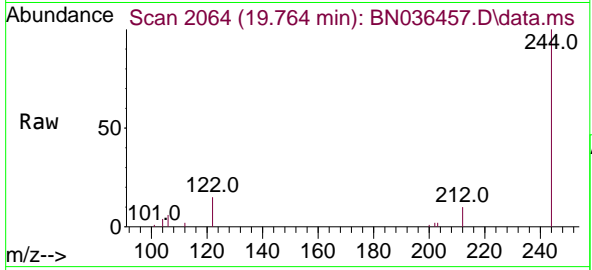




#31
 Terphenyl-d14
 Concen: 0.419 ng
 RT: 19.764 min Scan# 2064
 Delta R.T. -0.005 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

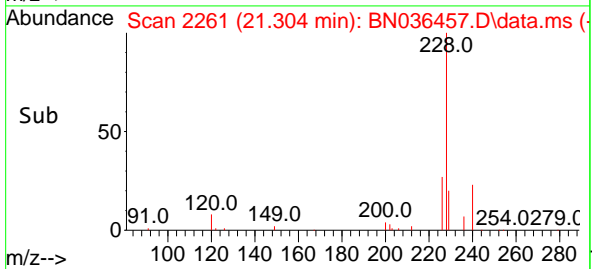
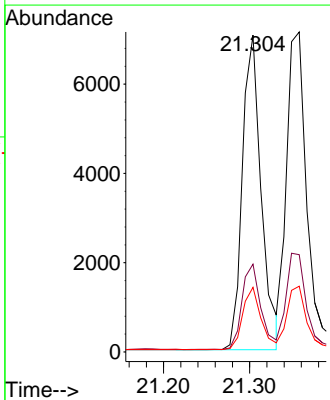
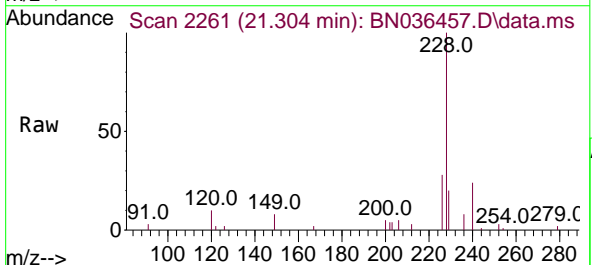
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

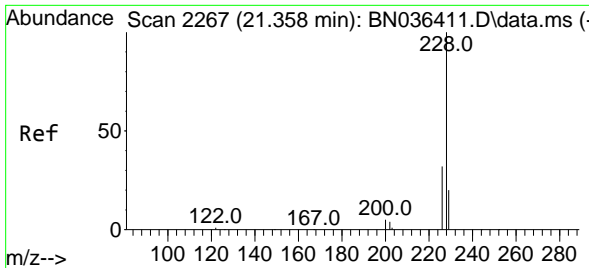
Tgt Ion	Resp	Ion Ratio	Lower	Upper
244	7428	100		
212		10.0	8.1	12.1
122		15.3	12.8	19.2



#32
 Benzo(a)anthracene
 Concen: 0.393 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion	Resp	Ion Ratio	Lower	Upper
228	10744	100		
226		27.7	22.2	33.2
229		20.4	16.5	24.7

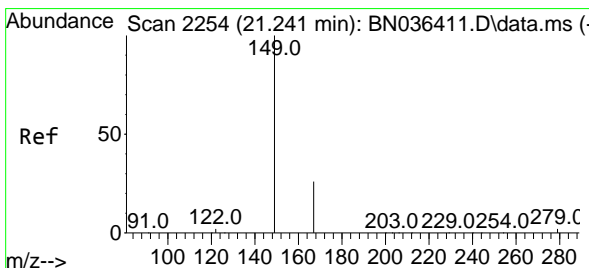
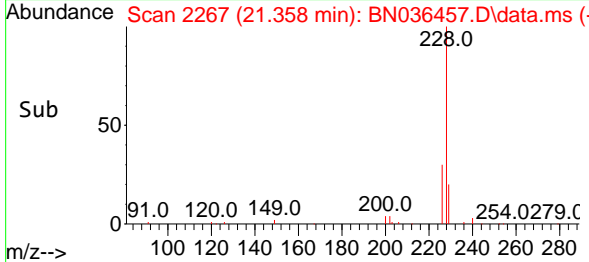
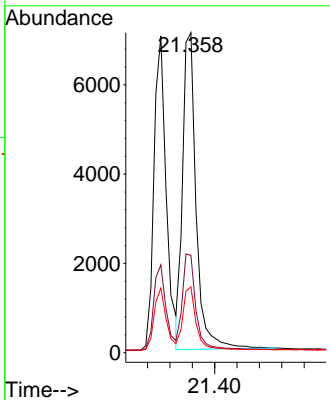
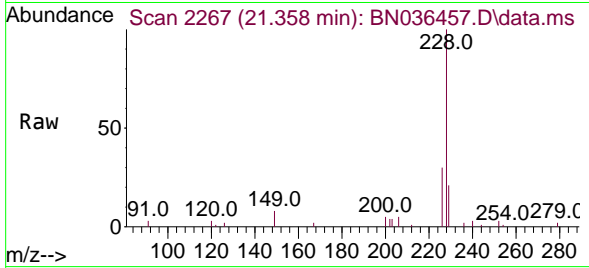




#33
 Chrysene
 Concen: 0.403 ng
 RT: 21.358 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

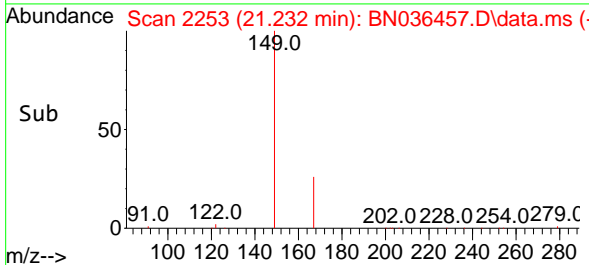
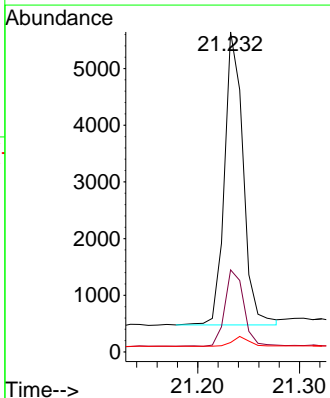
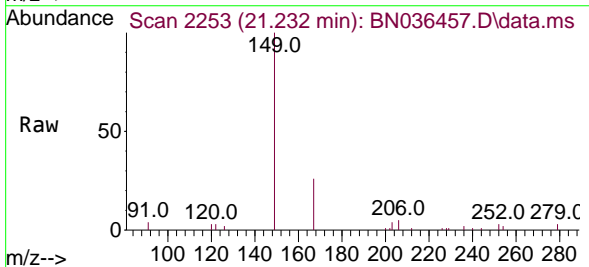
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

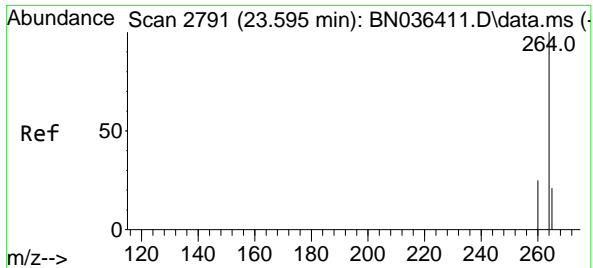
Tgt Ion	Resp	Lower	Upper
228	11936		
226	30.4	25.5	38.3
229	20.5	16.4	24.6



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.385 ng
 RT: 21.232 min Scan# 2253
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion	Resp	Lower	Upper
149	6561		
167	26.5	21.2	31.8
279	3.2	2.7	4.1



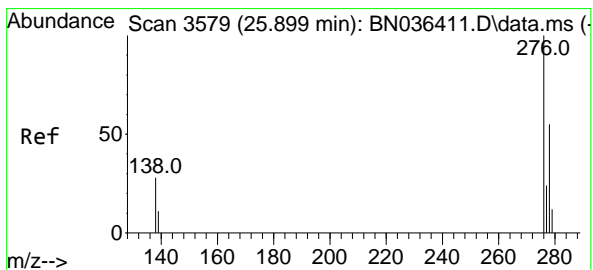
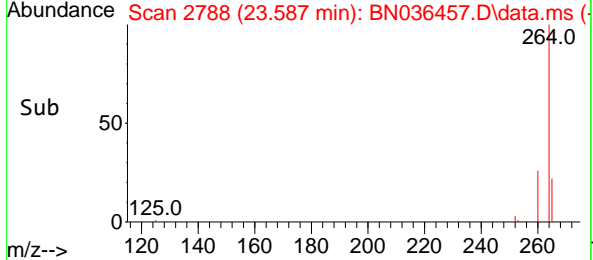
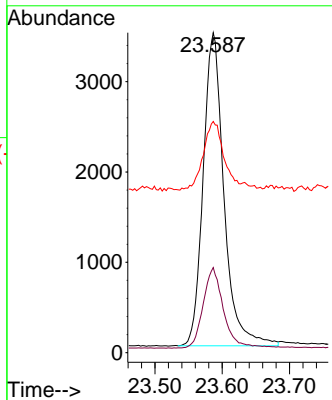
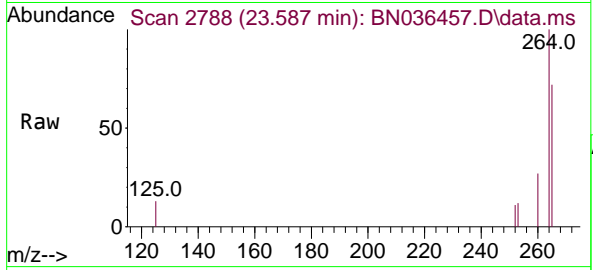


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.587 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion: 264 Resp: 7438

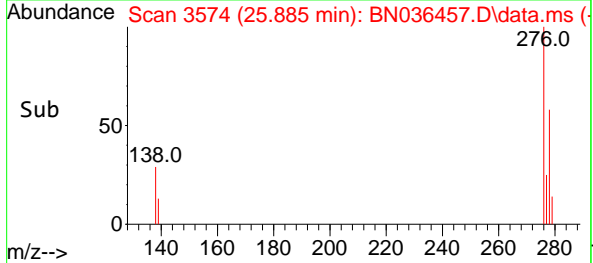
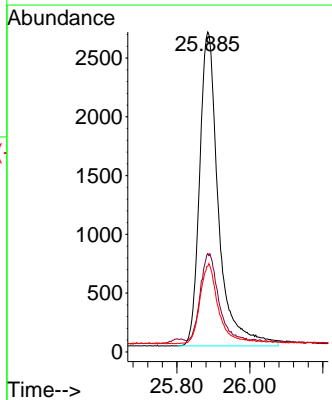
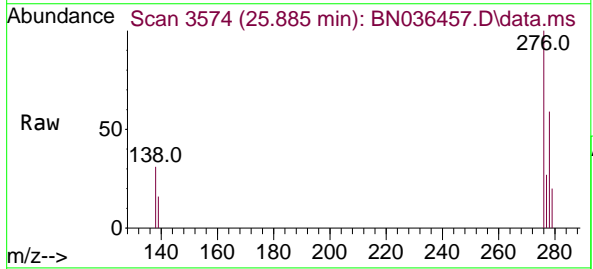
Ion	Ratio	Lower	Upper
264	100		
260	26.6	20.9	31.3
265	72.3	60.7	91.1

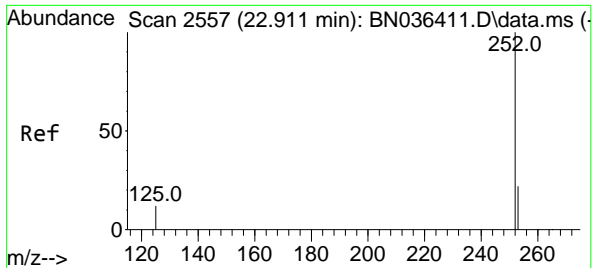


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.369 ng
 RT: 25.885 min Scan# 3574
 Delta R.T. -0.014 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion: 276 Resp: 9602

Ion	Ratio	Lower	Upper
276	100		
138	26.2	22.2	33.2
277	24.6	19.8	29.6



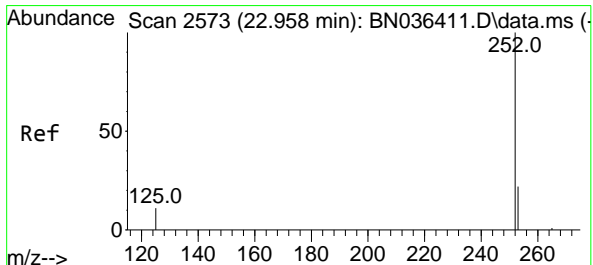
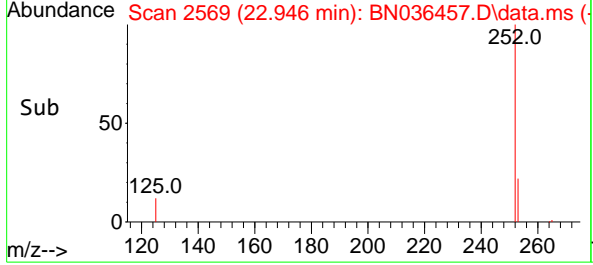
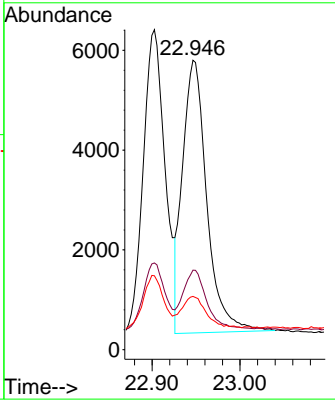
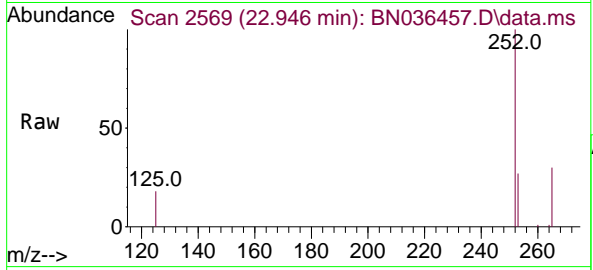


#37
 Benzo(b)fluoranthene
 Concen: 0.428 ng
 RT: 22.946 min Scan# 2569
 Delta R.T. 0.035 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion:252 Resp: 10477

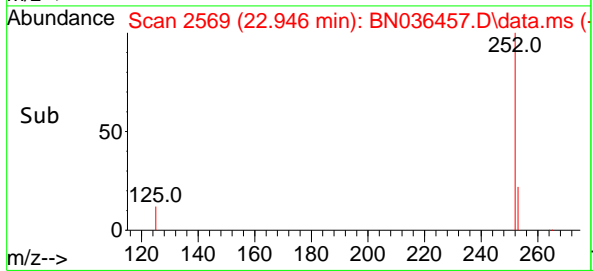
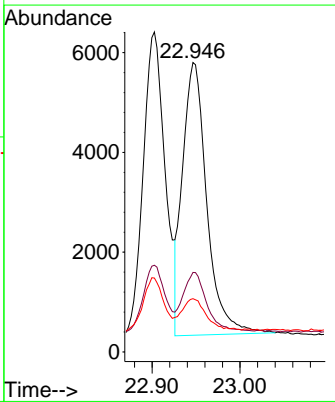
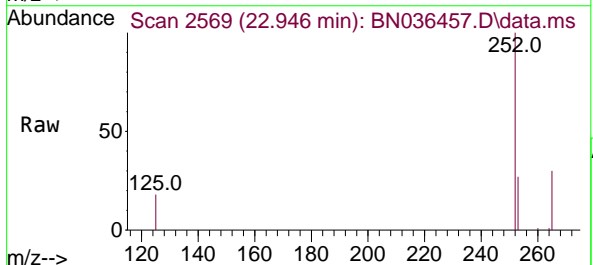
Ion	Ratio	Lower	Upper
252	100		
253	27.5	21.9	32.9
125	18.4	15.0	22.6

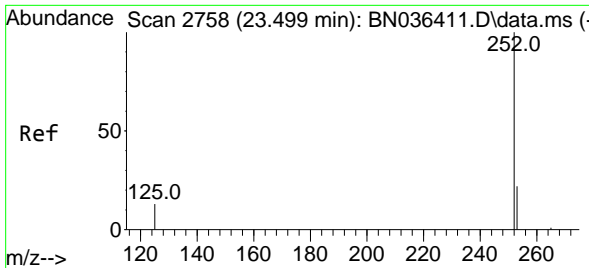


#38
 Benzo(k)fluoranthene
 Concen: 0.416 ng
 RT: 22.946 min Scan# 2569
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Tgt Ion:252 Resp: 10477

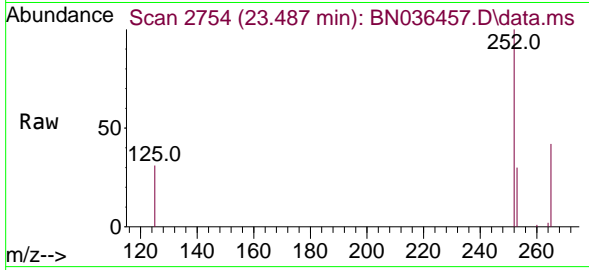
Ion	Ratio	Lower	Upper
252	100		
253	27.5	22.2	33.4
125	18.4	15.0	22.4



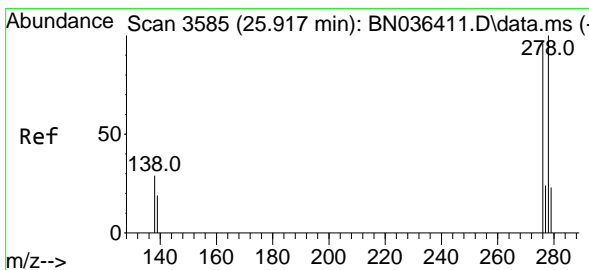
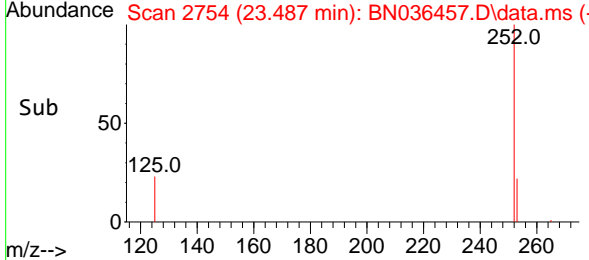
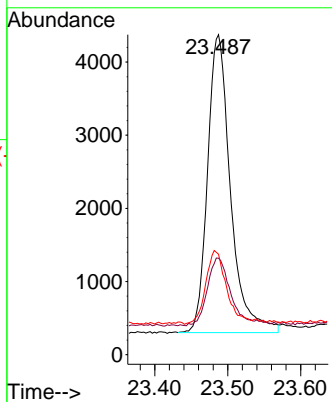


#39
 Benzo(a)pyrene
 Concen: 0.417 ng
 RT: 23.487 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

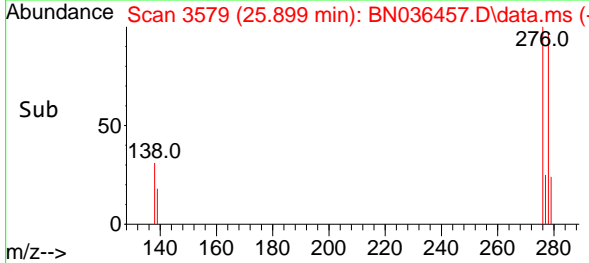
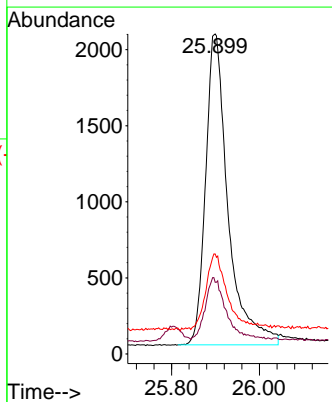
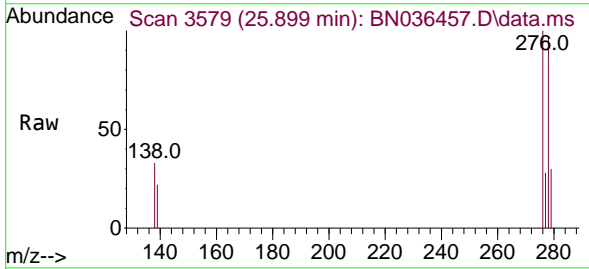


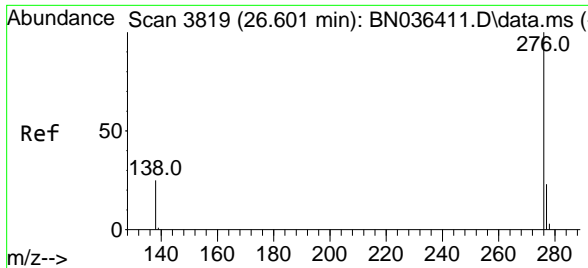
Tgt Ion:252 Resp: 8912
 Ion Ratio Lower Upper
 252 100
 253 30.1 24.4 36.6
 125 31.4 18.2 27.2#



#40
 Dibenzo(a,h)anthracene
 Concen: 0.354 ng
 RT: 25.899 min Scan# 3579
 Delta R.T. -0.017 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

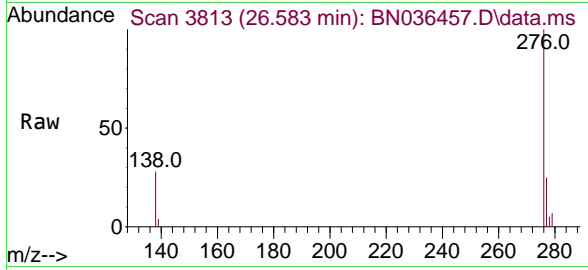
Tgt Ion:278 Resp: 7254
 Ion Ratio Lower Upper
 278 100
 139 22.4 18.5 27.7
 279 31.2 24.8 37.2





#41
 Benzo(g,h,i)perylene
 Concen: 0.358 ng
 RT: 26.583 min Scan# 3813
 Delta R.T. -0.017 min
 Lab File: BN036457.D
 Acq: 13 Feb 2025 01:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion: 276 Resp: 8333

Ion	Ratio	Lower	Upper
276	100		
277	25.4	20.7	31.1
138	27.6	21.8	32.6

