

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

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

**ORDER ID : Q2316
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2316

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2316-01
Q2316-02

Client Sample Number

RW8-SP100-20250612
RW8-SP303-20250612

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 12:30 pm, Jun 24, 2025

Date: 6/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q2316

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/12/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group4, SVOC-SIMGroup1, TDS and TSS. 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.

The Internal Standards Areas met the acceptable requirements except for PB168476BS , Not associated, therefor no further action was taken.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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.

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

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

for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 12:31 pm, Jun 24, 2025

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q2316

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.			✓
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.			✓

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments: The Internal Standards Areas met the acceptable requirements except for PB168476BS ,Not associated, therefor no further action was taken.			✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

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.

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

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

QA REVIEW

REVIEWED

By *Sohil Jodhani, QA/QC Director* at 10:10 am, Jun 24, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2316

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/23/2025

LAB CHRONICLE

OrderID:	Q2316	OrderDate:	6/12/2025 3:59:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2316-01	RW8-SP100-2025061 2	Water			06/12/25			06/12/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/15/25	
Q2316-02	RW8-SP303-2025061 2	Water			06/12/25			06/12/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/15/25	



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Hit Summary Sheet SW-846

SDG No.: Q2316

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				0.000					
Total Svoc :					0.00				
Total Concentration:					0.00				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168476BL	PB168476BL	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.29	74		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168476BS	PB168476BS	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168476BSD	PB168476BSD	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
Q2316-01	RW8-SP100-20250612	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.26	64		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q2316-02	RW8-SP303-20250612	2-Methylnaphthalene-d10	0.4	0.26	65		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.24	61		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
		Terphenyl-d14	0.4	0.41	102		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037280.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168476BS	1,4-Dioxane	0.4	0.30	ug/L	75				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037281.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168476BSD	1,4-Dioxane	0.4	0.28	ug/L	70	7			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168476BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2316

SAS No.: Q2316 SDG NO.: Q2316

Lab File ID: BN037274.D

Lab Sample ID: PB168476BL

Instrument ID: BNA_N

Date Extracted: 06/13/2025

Matrix: (soil/water) Water

Date Analyzed: 06/14/2025

Level: (low/med) LOW

Time Analyzed: 23:07

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168476BS	PB168476BS	BN037280.D	06/15/2025
RW8-SP100-20250612	Q2316-01	BN037278.D	06/15/2025
RW8-SP303-20250612	Q2316-02	BN037279.D	06/15/2025
PB168476BSD	PB168476BSD	BN037281.D	06/15/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2316SDG NO.: Q2316Lab File ID: BN037223.DDFTPP Injection Date: 06/13/2025Instrument ID: BNA_NDFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (0.4) 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	6.7
365	Greater than 1% of mass 198	5.3
441	Present, but less than mass 443	90.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.6 (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	BN037225.D	06/13/2025	13:33
SSTDICC0.2	SSTDICC0.2	BN037226.D	06/13/2025	14:10
SSTDICCC0.4	SSTDICCC0.4	BN037227.D	06/13/2025	14:46
SSTDICC0.8	SSTDICC0.8	BN037228.D	06/13/2025	15:22
SSTDICC1.6	SSTDICC1.6	BN037229.D	06/13/2025	15:59
SSTDICC3.2	SSTDICC3.2	BN037230.D	06/13/2025	16:35
SSTDICC5.0	SSTDICC5.0	BN037231.D	06/13/2025	17:11
SSTDCCC0.4EC	SSTDCCC0.4	BN037238.D	06/13/2025	22:01



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2316SDG NO.: Q2316Lab File ID: BN037272.DDFTPP Injection Date: 06/14/2025Instrument ID: BNA_NDFTPP Injection Time: 21:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	1 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.4 (0.6) 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
365	Greater than 1% of mass 198	5.1
441	Present, but less than mass 443	82.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12 (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
SSTDCCC0.4	SSTDCCC0.4	BN037273.D	06/14/2025	22:31
PB168476BL	PB168476BL	BN037274.D	06/14/2025	23:07
RW8-SP100-20250612	Q2316-01	BN037278.D	06/15/2025	01:30
RW8-SP303-20250612	Q2316-02	BN037279.D	06/15/2025	02:06
PB168476BS	PB168476BS	BN037280.D	06/15/2025	02:42
PB168476BSD	PB168476BSD	BN037281.D	06/15/2025	03:18
SSTDCCC0.4EC	SSTDCCC0.4	BN037282.D	06/15/2025	03:54

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2316 SAS No.: Q2316 SDG NO.: Q2316

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037273.D Time Analyzed: 22:31

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	1389	7.575	3410	10.35	1759	14.22
UPPER LIMIT	2778	8.075	6820	10.851	3518	14.724
LOWER LIMIT	694.5	7.075	1705	9.851	879.5	13.724
EPA SAMPLE NO.						
01 PB168476BL	1111	7.58	2537	10.36	1345	14.22
02 PB168476BS	1101	7.58	2637	10.35	1350	14.22
03 PB168476BSD	1070	7.58	2630	10.35	1332	14.22
04 RW8-SP100-20250612	1039	7.58	2587	10.35	1385	14.22
05 RW8-SP303-20250612	1035	7.58	2641	10.35	1419	14.22

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.: Q2316 SAS No.: Q2316 SDG NO.: Q2316

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037273.D Time Analyzed: 22:31

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	3220	16.971	2454	21.171	2514	23.357
UPPER LIMIT	6440	17.471	4908	21.671	5028	23.857
LOWER LIMIT	1610	16.471	1227	20.671	1257	22.857
EPA SAMPLE NO.						
01 PB168476BL	2242	16.98	1645	21.17	1590	23.36
02 PB168476BS	2251	16.97	1528	21.17	1224 *	23.36
03 PB168476BSD	2256	16.97	1565	21.17	1276	23.35
04 RW8-SP100-20250612	2353	16.98	1786	21.17	1731	23.35
05 RW8-SP303-20250612	2526	16.97	1833	21.17	1767	23.36

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/12/25
Client Sample ID:	RW8-SP100-20250612	SDG No.:	Q2316
Lab Sample ID:	Q2316-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037278.D	1	06/13/25 11:00	06/15/25 01:30	PB168476

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	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		64%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1040	7.575				
1146-65-2	Naphthalene-d8	2590	10.351				
15067-26-2	Acenaphthene-d10	1390	14.224				
1517-22-2	Phenanthrene-d10	2350	16.984				
1719-03-5	Chrysene-d12	1790	21.171				
1520-96-3	Perylene-d12	1730	23.354				

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\BN061325\
Data File : BN037278.D
Acq On : 15 Jun 2025 01:30
Operator : RC/JU
Sample : Q2316-01
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612

Quant Time: Jun 16 02:46:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

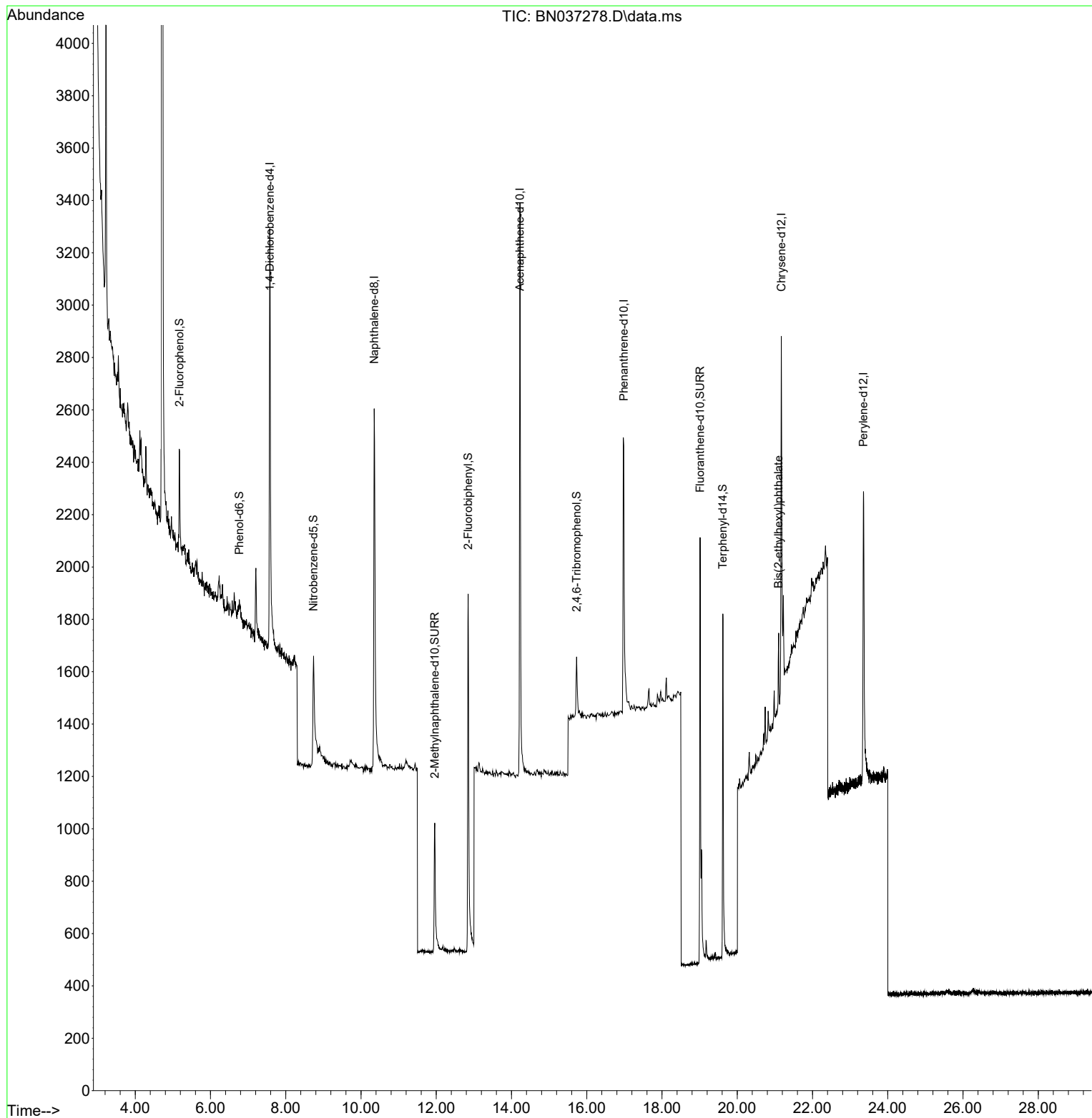
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1039	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2587	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1385	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2353	0.400	ng	# 0.01
29) Chrysene-d12	21.171	240	1786	0.400	ng	0.00
35) Perylene-d12	23.354	264	1731	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	283	0.111	ng	0.00
5) Phenol-d6	6.766	99	143	0.053	ng	0.00
8) Nitrobenzene-d5	8.739	82	657	0.257	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	997	0.287	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	191	0.332	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1757	0.302	ng	0.00
27) Fluoranthene-d10	19.012	212	2298	0.373	ng	0.00
31) Terphenyl-d14	19.616	244	1621	0.402	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	260	0.058	ng	# 95

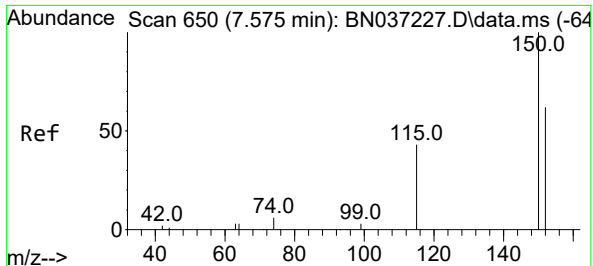
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037278.D
Acq On : 15 Jun 2025 01:30
Operator : RC/JU
Sample : Q2316-01
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612

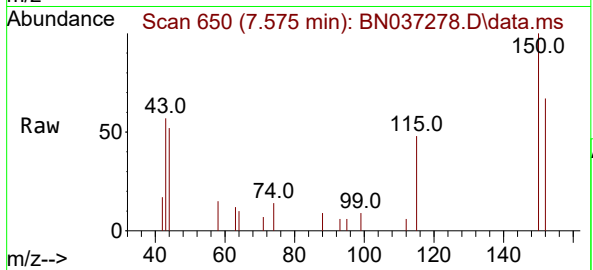
Quant Time: Jun 16 02:46:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



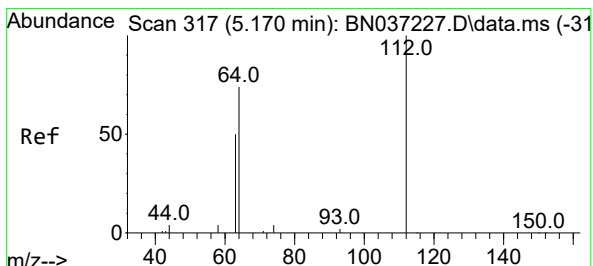
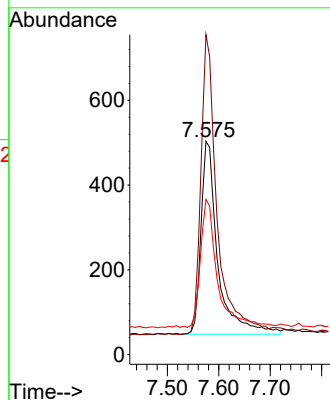
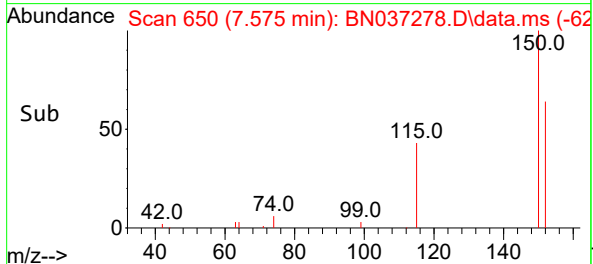


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

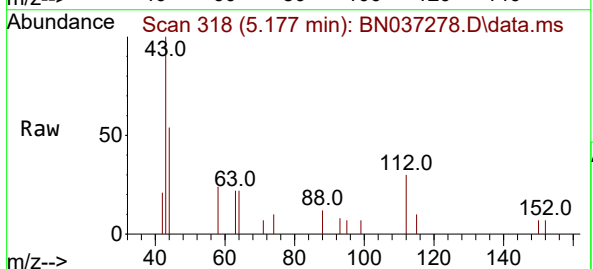
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612



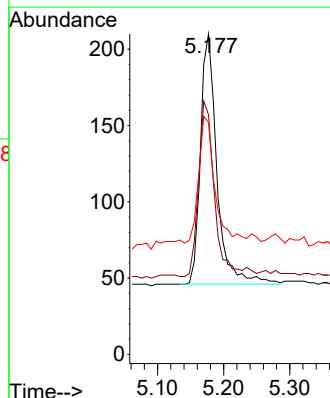
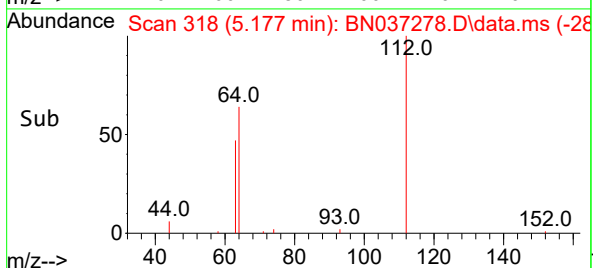
Tgt Ion:152 Resp: 1039
Ion Ratio Lower Upper
152 100
150 150.1 125.2 187.8
115 72.8 58.4 87.6

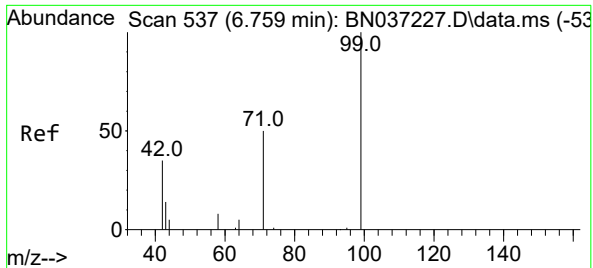


#4
2-Fluorophenol
Concen: 0.111 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30



Tgt Ion:112 Resp: 283
Ion Ratio Lower Upper
112 100
64 68.9 57.2 85.8
63 62.9 39.8 59.6#

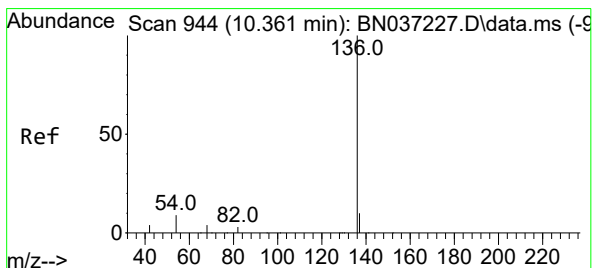
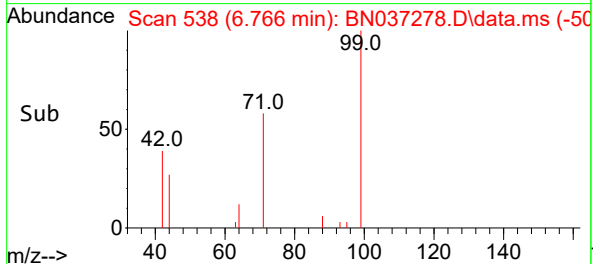
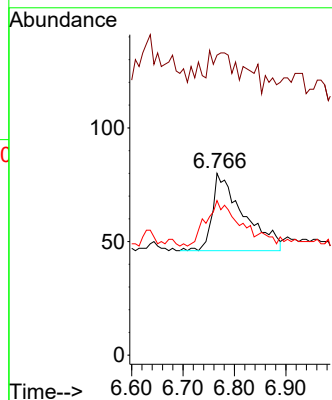
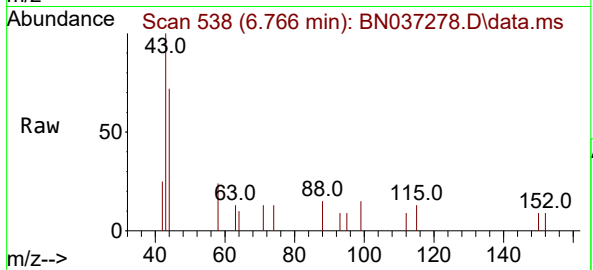




#5
Phenol-d6
Concen: 0.053 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

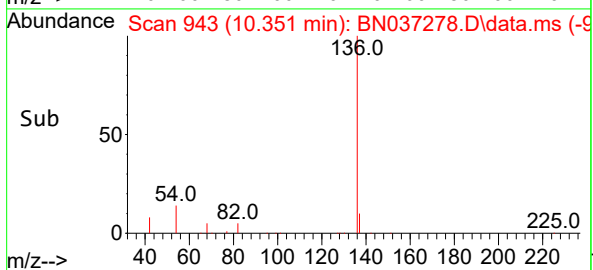
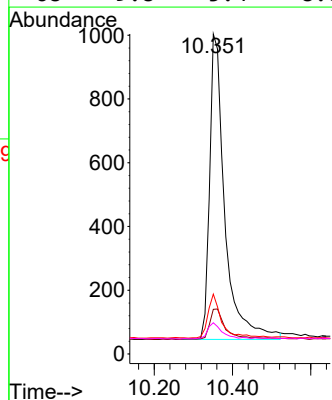
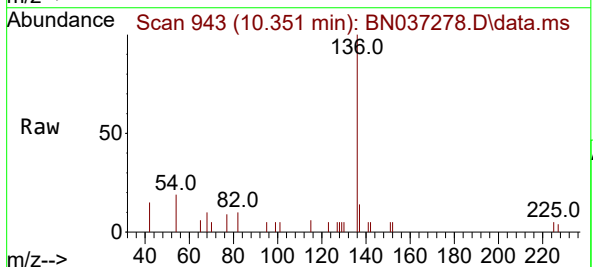
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612

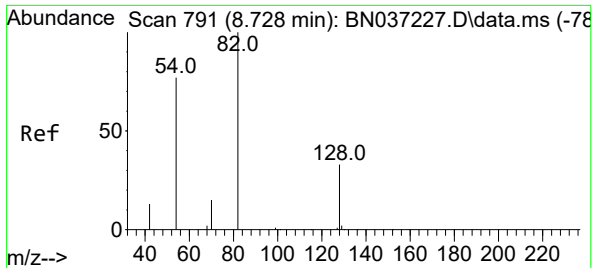
Tgt Ion: 99 Resp: 143
Ion Ratio Lower Upper
99 100
42 24.5 36.2 54.4#
71 60.8 42.4 63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

Tgt Ion: 136 Resp: 2587
Ion Ratio Lower Upper
136 100
137 13.9 10.6 15.8
54 18.7 9.2 13.8#
68 9.8 5.4 8.0#

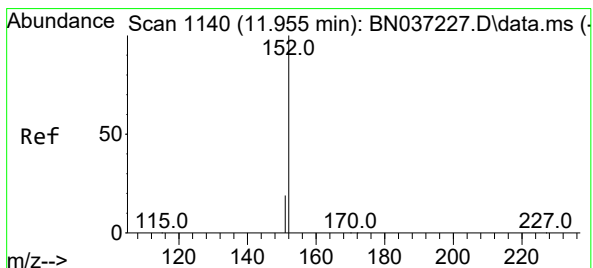
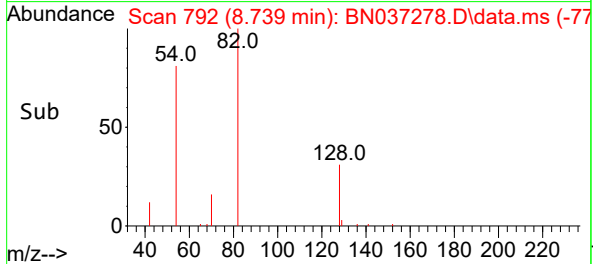
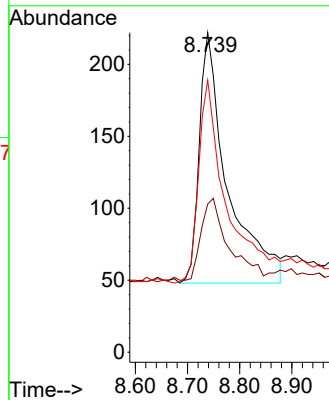
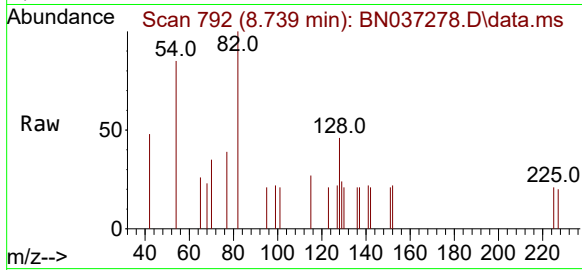




#8
Nitrobenzene-d5
Concen: 0.257 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

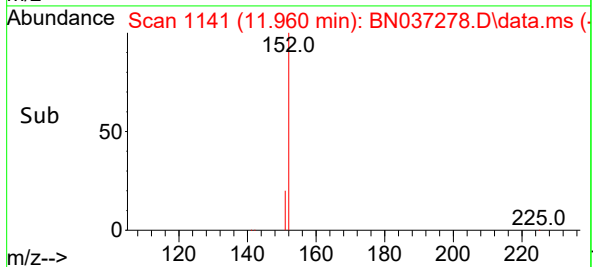
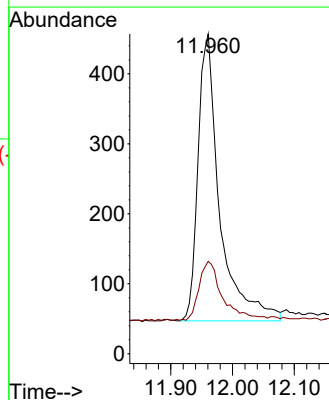
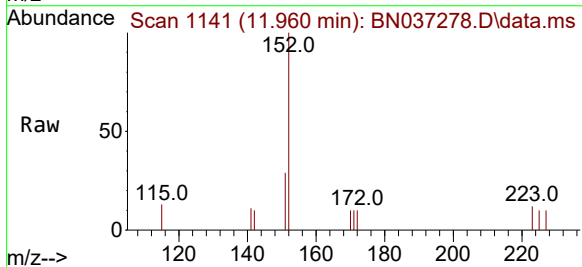
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612

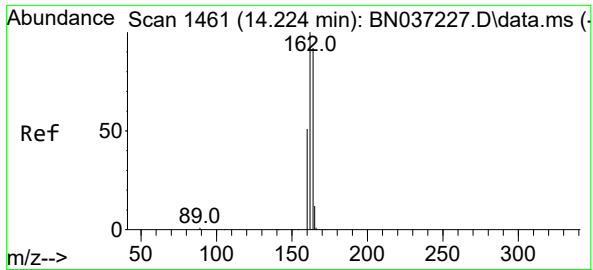
Tgt Ion:	82	Resp:	657
Ion	Ratio	Lower	Upper
82	100		
128	46.4	31.2	46.8
54	85.1	63.3	94.9



#11
2-Methylnaphthalene-d10
Concen: 0.287 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

Tgt Ion:	152	Resp:	997
Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.9	26.9

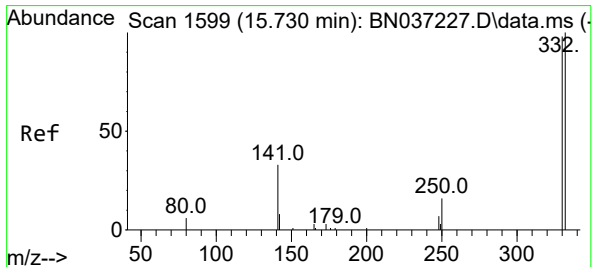
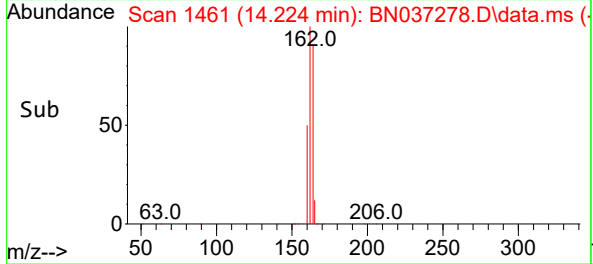
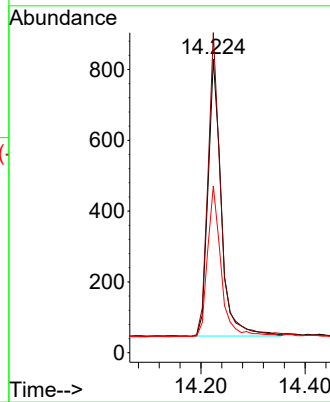
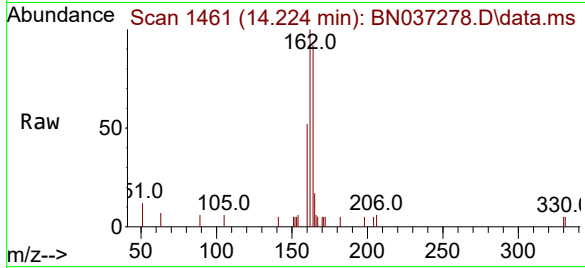




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

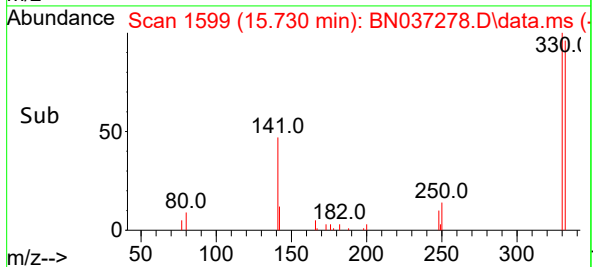
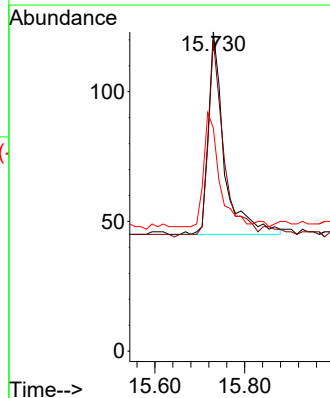
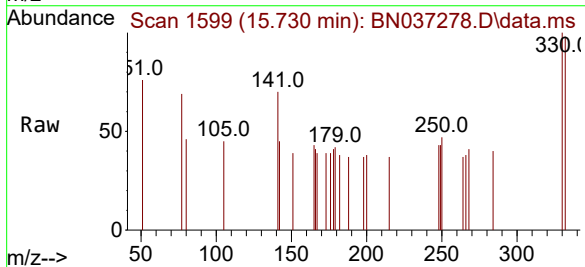
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612

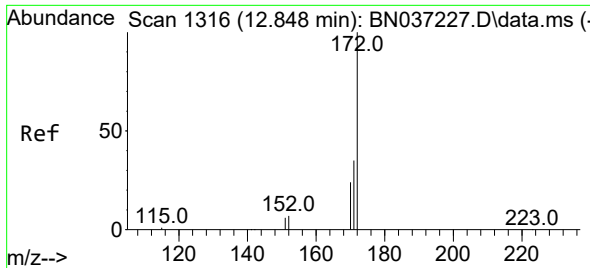
Tgt Ion:164 Resp: 1385
Ion Ratio Lower Upper
164 100
162 109.0 86.7 130.1
160 56.8 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.332 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

Tgt Ion:330 Resp: 191
Ion Ratio Lower Upper
330 100
332 95.8 74.9 112.3
141 57.1 45.1 67.7

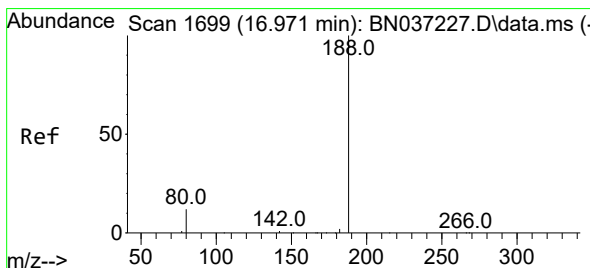
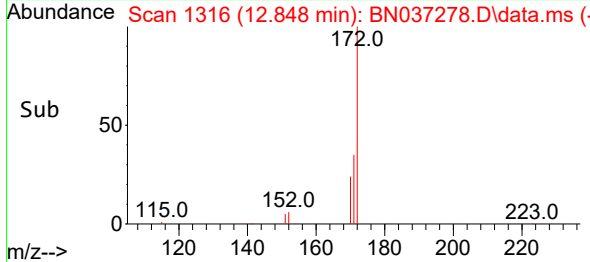
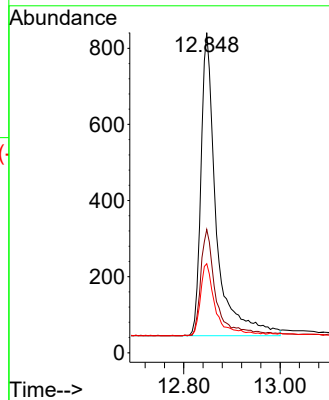
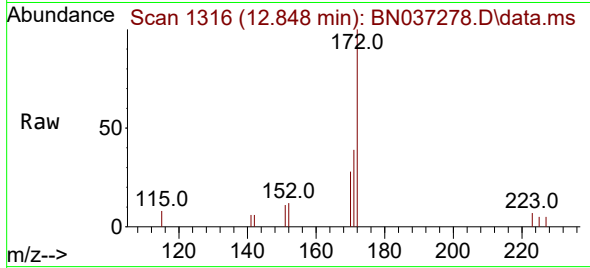




#15
2-Fluorobiphenyl
Concen: 0.302 ng
RT: 12.848 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

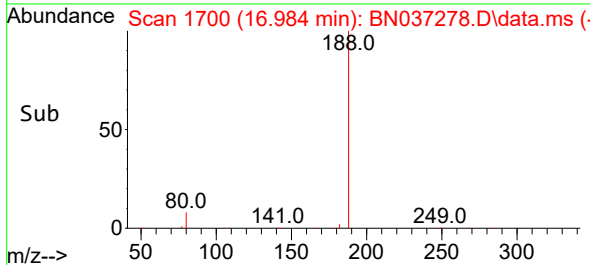
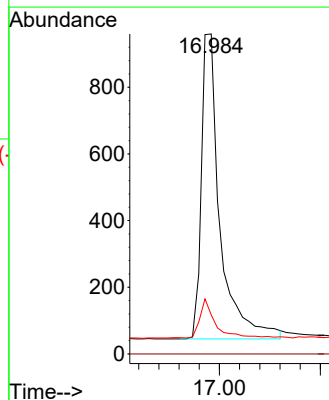
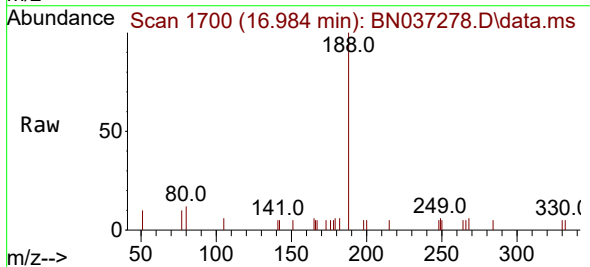
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612

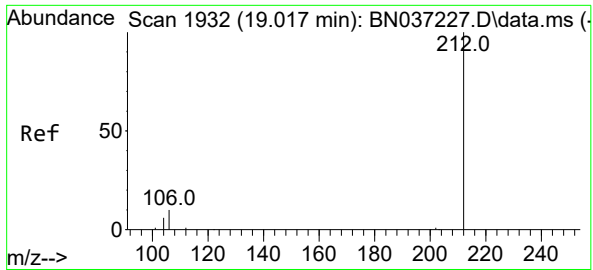
Tgt Ion:	172	Resp:	1757
Ion	Ratio	Lower	Upper
172	100		
171	38.5	29.8	44.8
170	27.8	21.1	31.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.013 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

Tgt Ion:	188	Resp:	2353
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	12.2	18.4

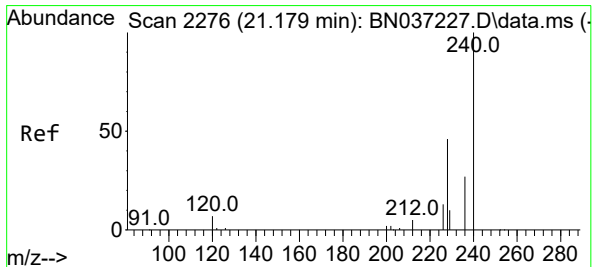
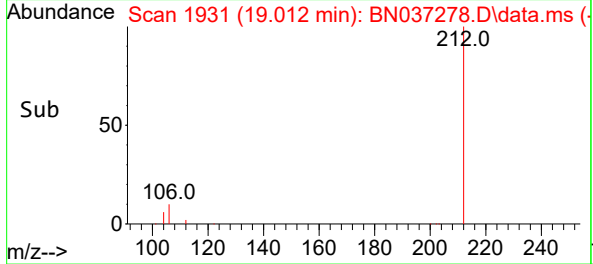
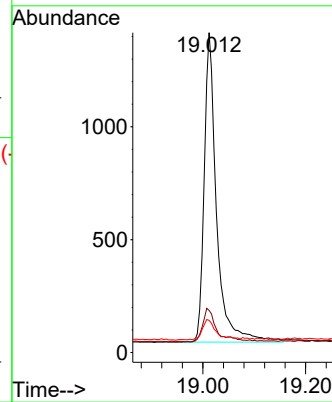
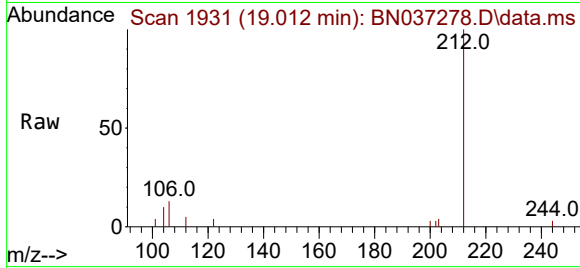




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

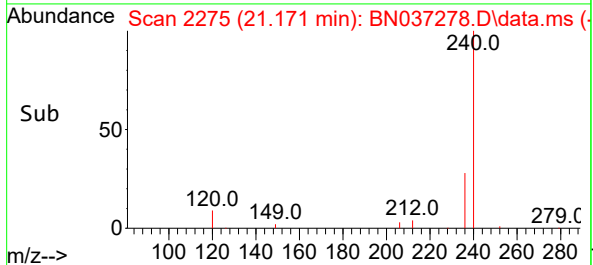
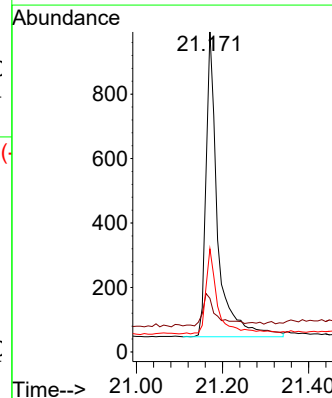
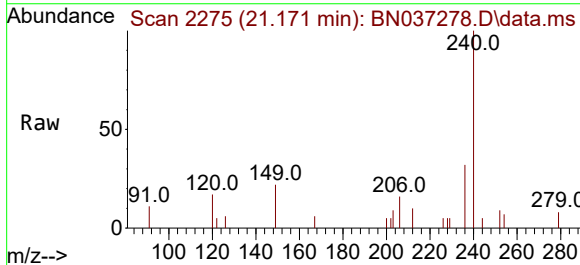
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612

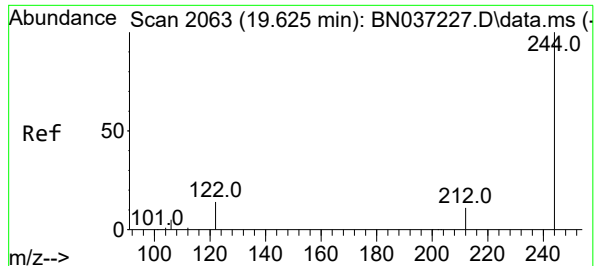
Tgt Ion:212	Resp:	2298
Ion Ratio	Lower	Upper
212	100	
106	12.1	9.3 13.9
104	7.3	5.7 8.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

Tgt Ion:240	Resp:	1786
Ion Ratio	Lower	Upper
240	100	
120	16.7	11.3 16.9
236	32.2	24.4 36.6

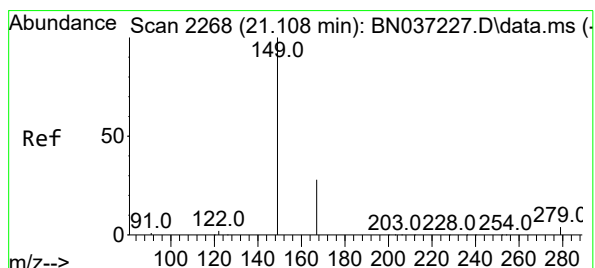
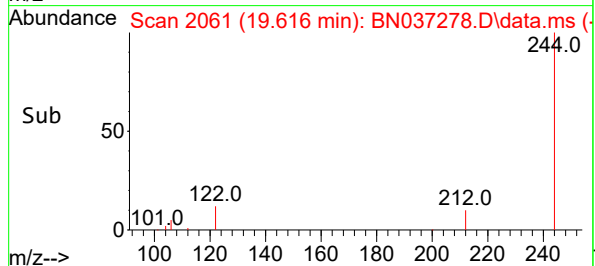
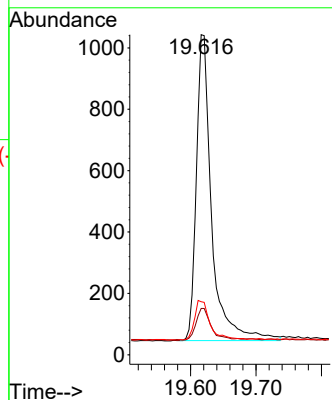
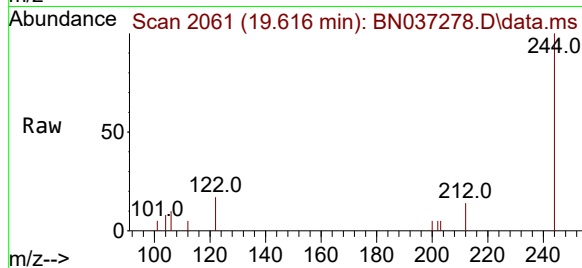




#31
 Terphenyl-d14
 Concen: 0.402 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. -0.009 min
 Lab File: BN037278.D
 Acq: 15 Jun 2025 01:30

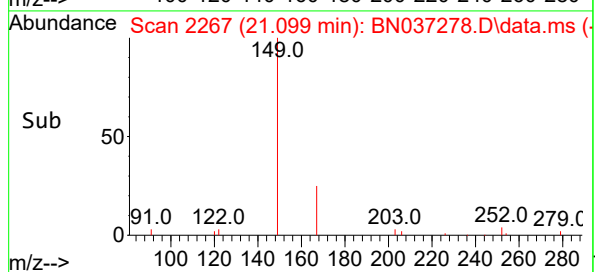
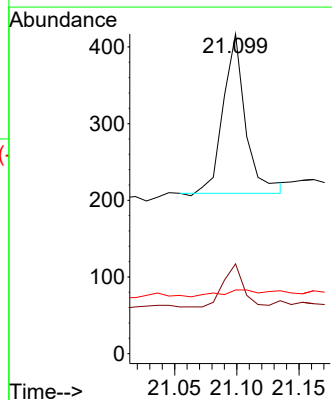
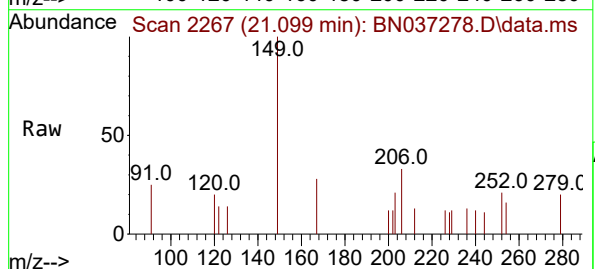
Instrument :
 BNA_N
 ClientSampleId :
 RW8-SP100-20250612

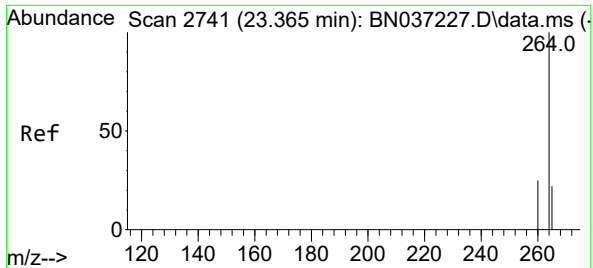
Tgt Ion:244 Resp: 1621
 Ion Ratio Lower Upper
 244 100
 212 14.5 12.2 18.2
 122 16.6 14.3 21.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.058 ng
 RT: 21.099 min Scan# 2267
 Delta R.T. -0.009 min
 Lab File: BN037278.D
 Acq: 15 Jun 2025 01:30

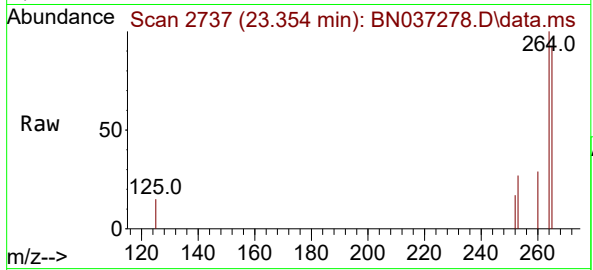
Tgt Ion:149 Resp: 260
 Ion Ratio Lower Upper
 149 100
 167 24.2 21.3 31.9
 279 6.9 3.3 4.9#



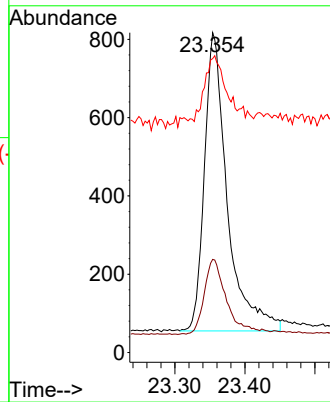
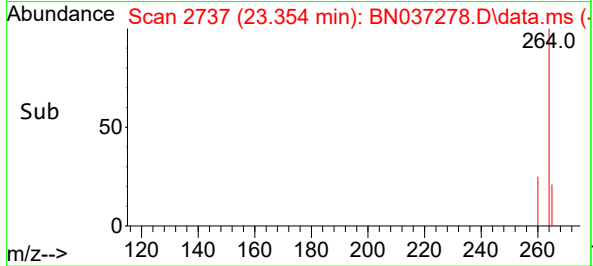


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037278.D
Acq: 15 Jun 2025 01:30

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250612



Tgt Ion:	264	Resp:	1731
Ion Ratio	Lower	Upper	
264	100		
260	29.1	22.8	34.2
265	91.9	66.4	99.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/12/25
Client Sample ID:	RW8-SP303-20250612	SDG No.:	Q2316
Lab Sample ID:	Q2316-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037279.D	1	06/13/25 11:00	06/15/25 02:06	PB168476

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	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		55 - 111		61%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1040		7.582			
1146-65-2	Naphthalene-d8	2640		10.351			
15067-26-2	Acenaphthene-d10	1420		14.224			
1517-22-2	Phenanthrene-d10	2530		16.971			
1719-03-5	Chrysene-d12	1830		21.171			
1520-96-3	Perylene-d12	1770		23.357			

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\BN061325\
Data File : BN037279.D
Acq On : 15 Jun 2025 02:06
Operator : RC/JU
Sample : Q2316-02
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612

Quant Time: Jun 16 02:47:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

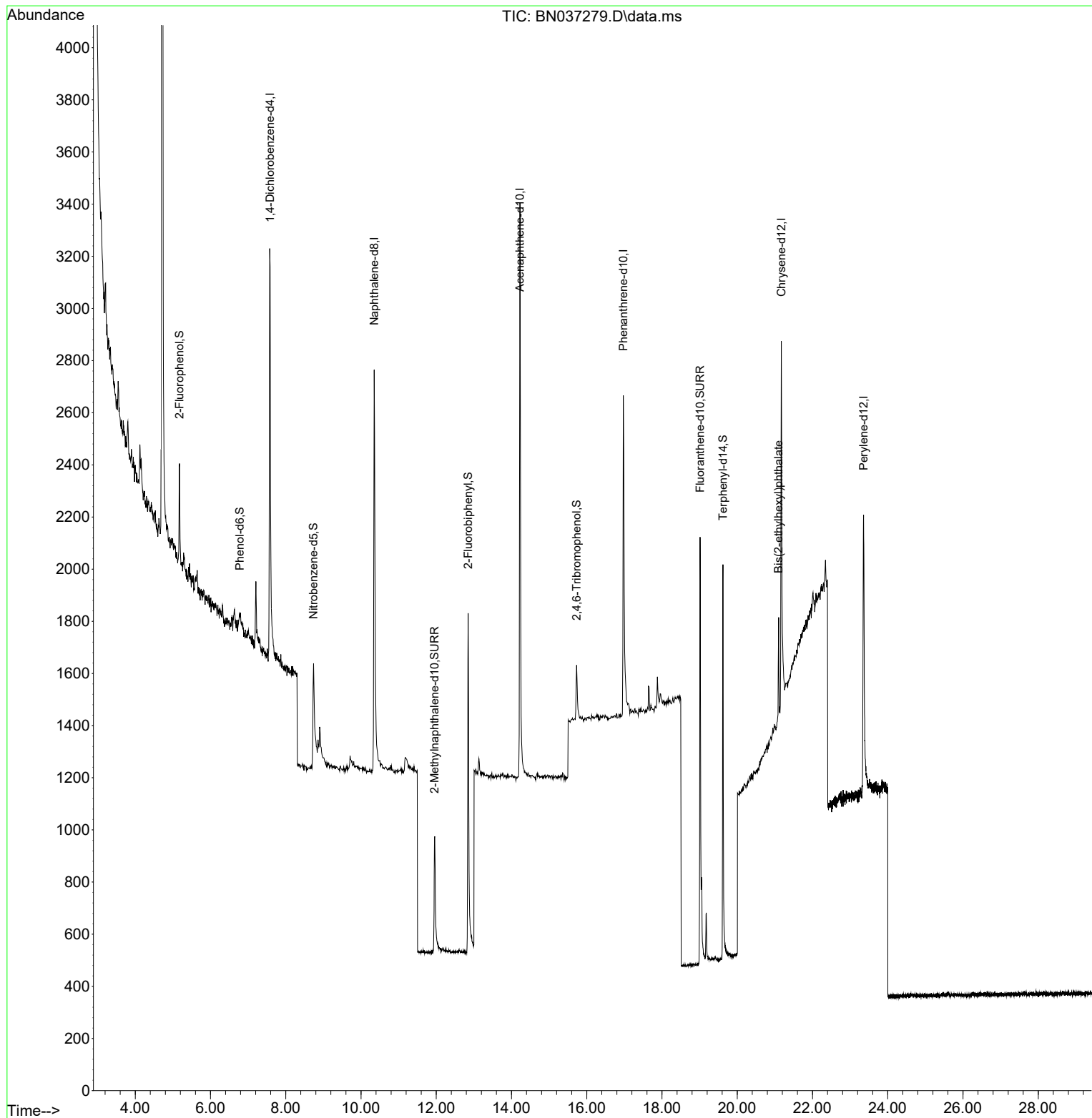
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1035	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2641	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1419	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2526	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1833	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	1767	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	280	0.110	ng	0.00
5) Phenol-d6	6.781	99	140	0.052	ng	0.02
8) Nitrobenzene-d5	8.739	82	635	0.243	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	929	0.262	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	189	0.321	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1595	0.267	ng	0.00
27) Fluoranthene-d10	19.012	212	2349	0.355	ng	0.00
31) Terphenyl-d14	19.621	244	1685	0.407	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	405	0.088	ng	# 98

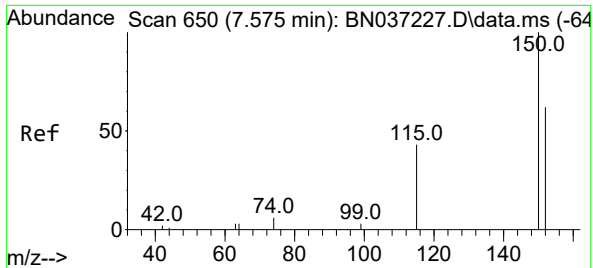
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037279.D
Acq On : 15 Jun 2025 02:06
Operator : RC/JU
Sample : Q2316-02
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612

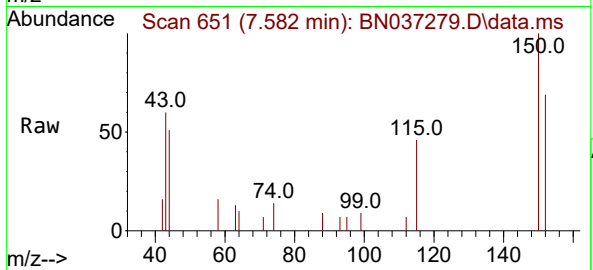
Quant Time: Jun 16 02:47:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



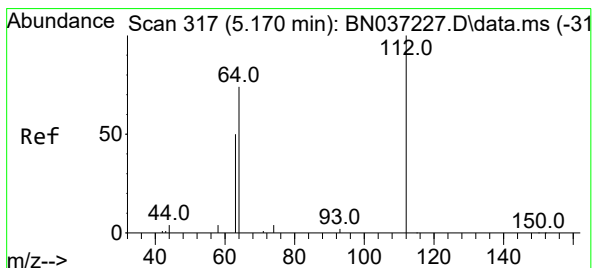
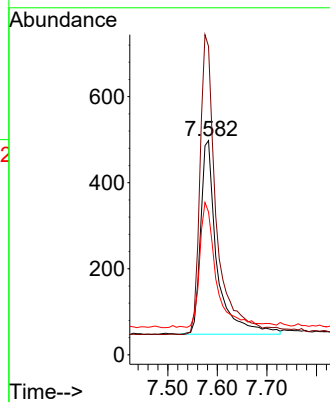
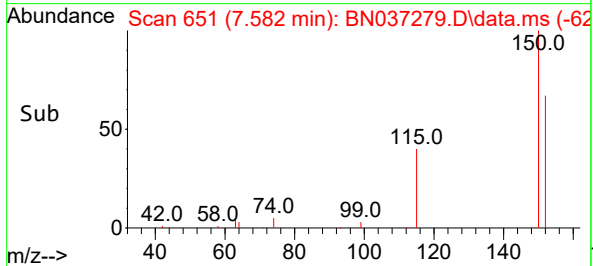


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

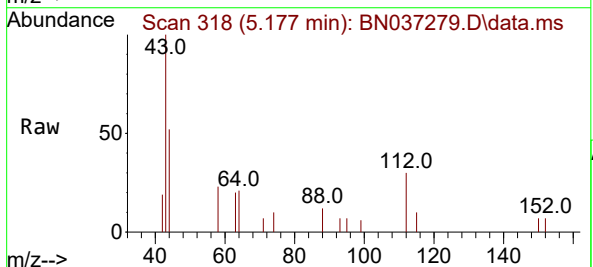
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612



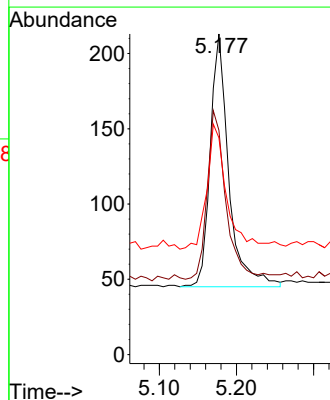
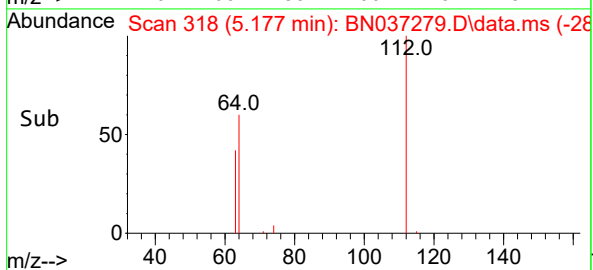
Tgt Ion:152 Resp: 1035
Ion Ratio Lower Upper
152 100
150 144.0 125.2 187.8
115 66.7 58.4 87.6

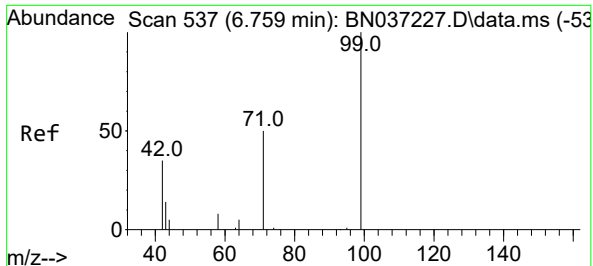


#4
2-Fluorophenol
Concen: 0.110 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06



Tgt Ion:112 Resp: 280
Ion Ratio Lower Upper
112 100
64 67.9 57.2 85.8
63 52.1 39.8 59.6

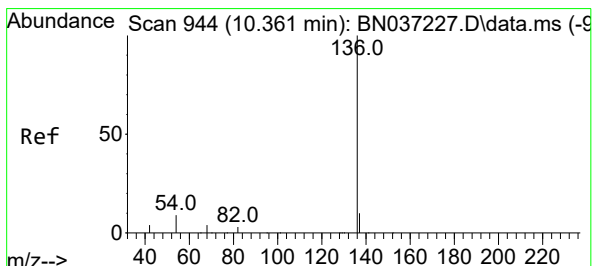
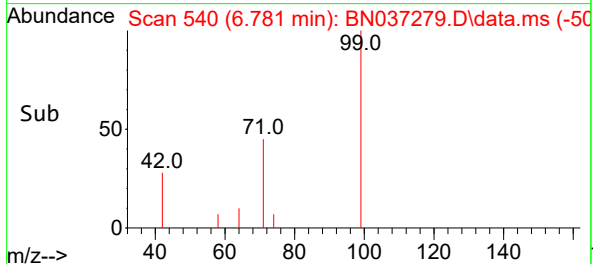
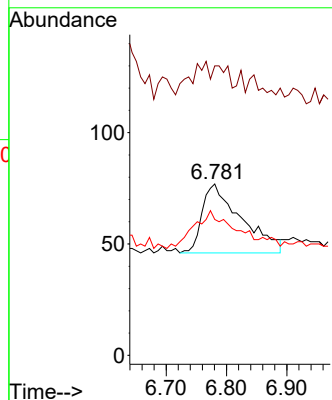
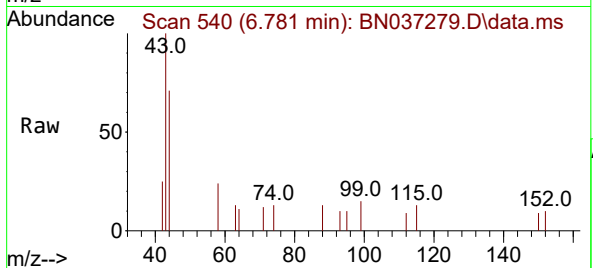




#5
Phenol-d6
Concen: 0.052 ng
RT: 6.781 min Scan# 54
Delta R.T. 0.022 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

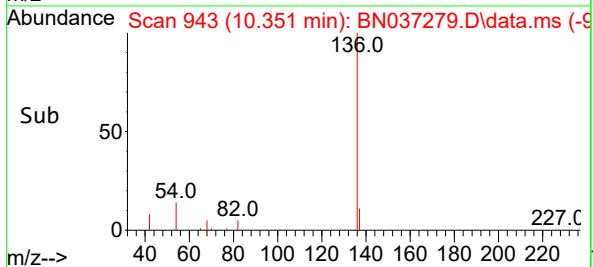
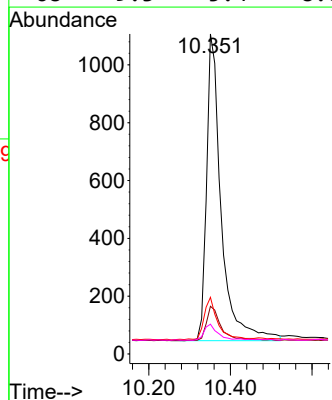
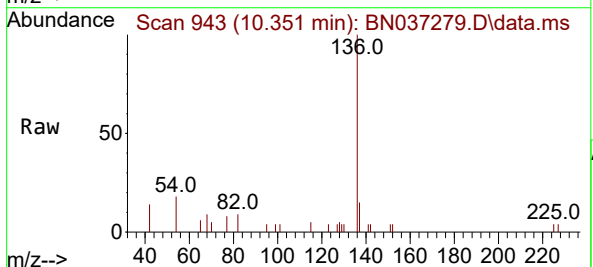
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612

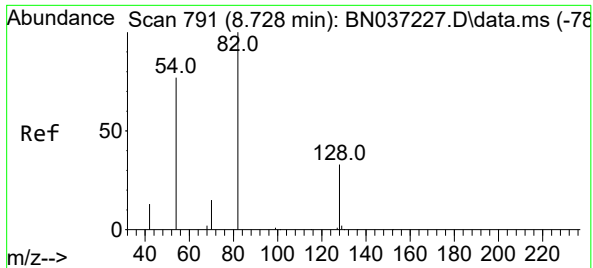
Tgt Ion: 99 Resp: 140
Ion Ratio Lower Upper
99 100
42 22.1 36.2 54.4#
71 55.7 42.4 63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

Tgt Ion: 136 Resp: 2641
Ion Ratio Lower Upper
136 100
137 14.9 10.6 15.8
54 17.7 9.2 13.8#
68 9.3 5.4 8.0#

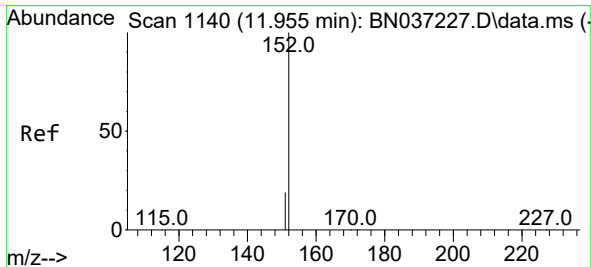
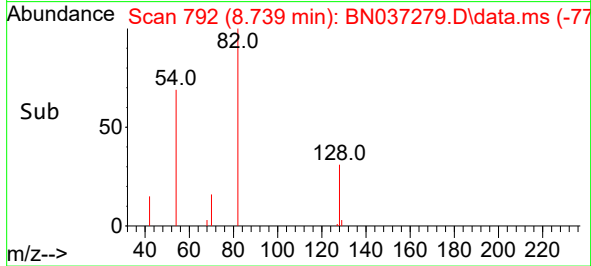
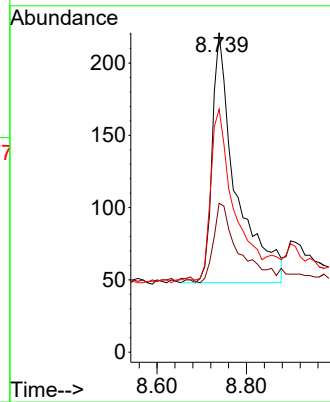
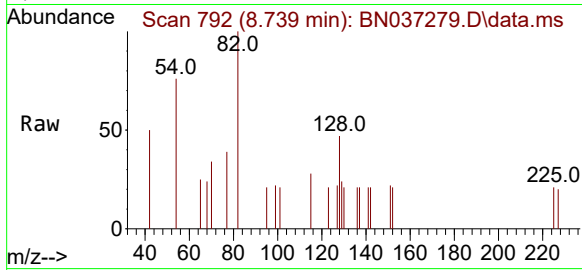




#8
Nitrobenzene-d5
Concen: 0.243 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

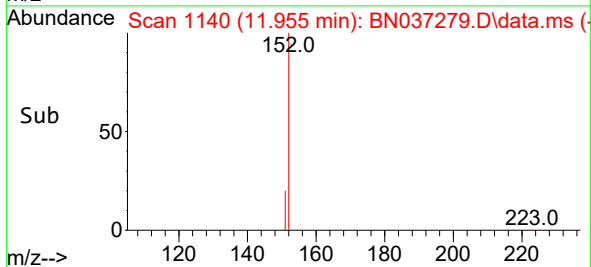
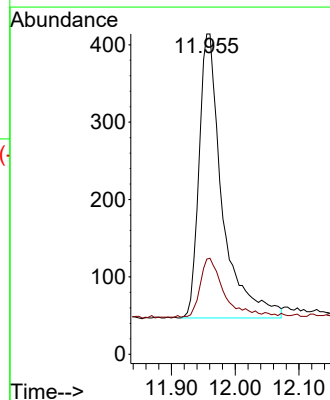
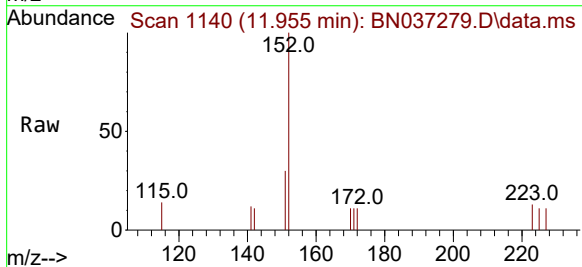
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612

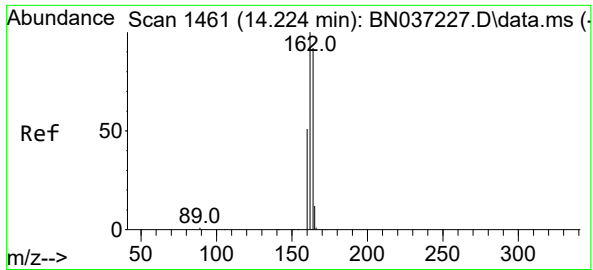
Tgt Ion:	82	Resp:	635
Ion	Ratio	Lower	Upper
82	100		
128	46.6	31.2	46.8
54	76.0	63.3	94.9



#11
2-Methylnaphthalene-d10
Concen: 0.262 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

Tgt Ion:	152	Resp:	929
Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.9	26.9

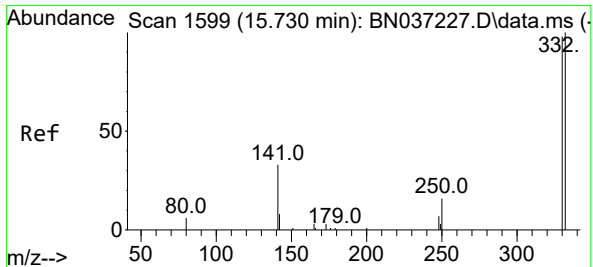
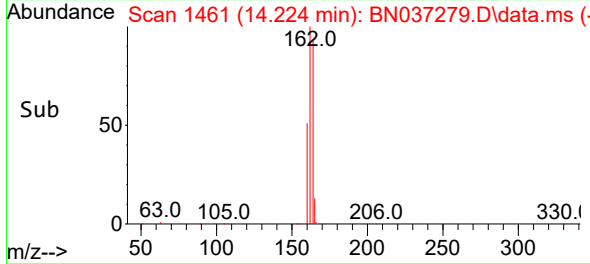
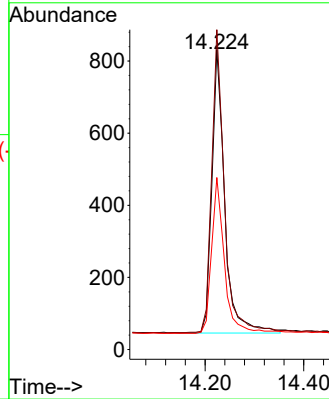
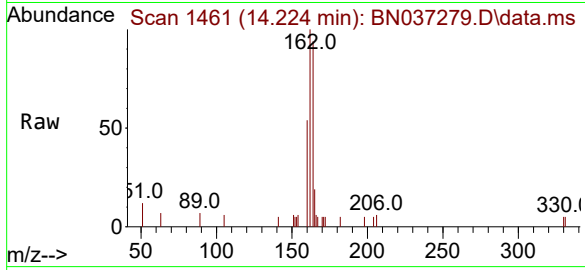




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

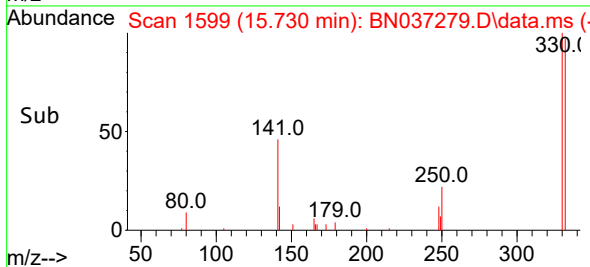
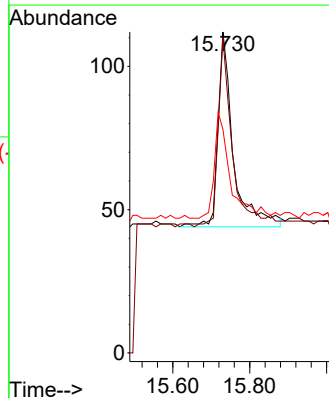
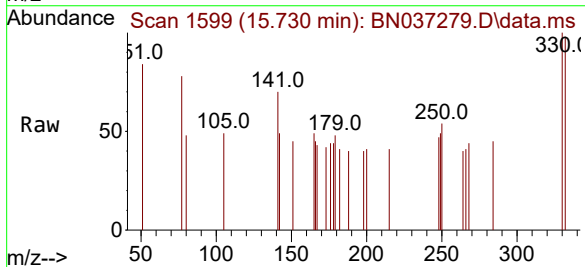
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612

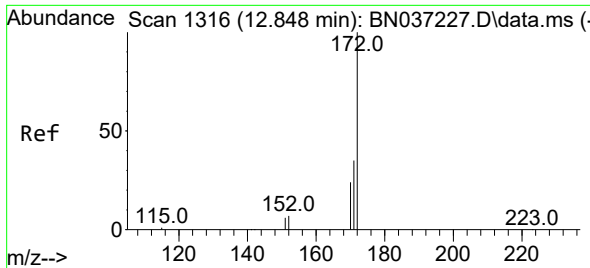
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.6	86.7	130.1
160	57.3	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

Tgt Ion	Ratio	Lower	Upper
330	100		
332	88.9	74.9	112.3
141	55.6	45.1	67.7

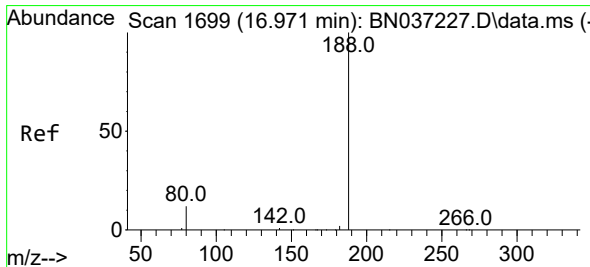
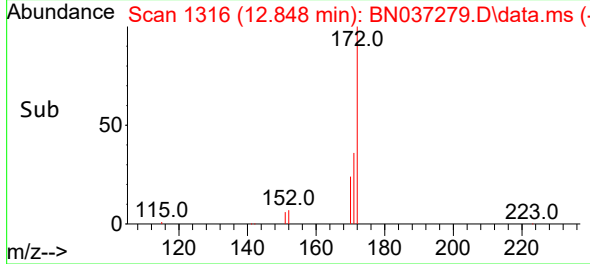
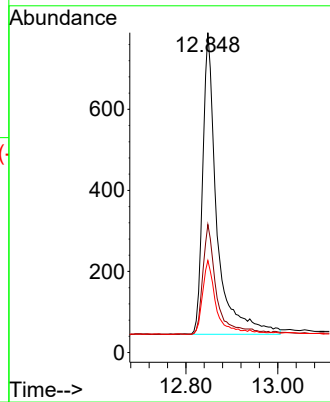
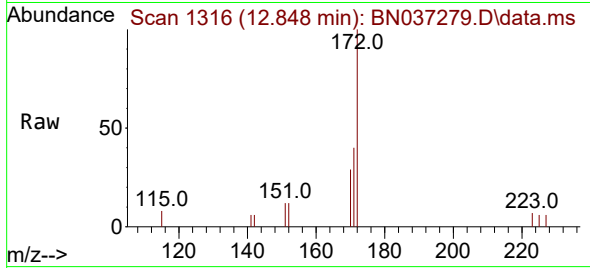




#15
2-Fluorobiphenyl
Concen: 0.267 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

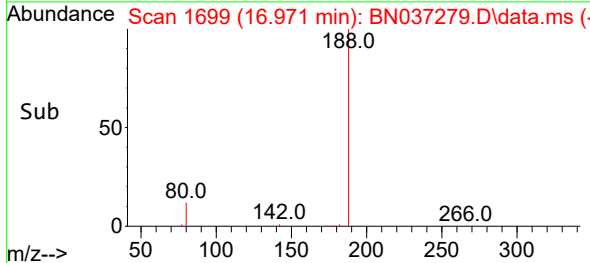
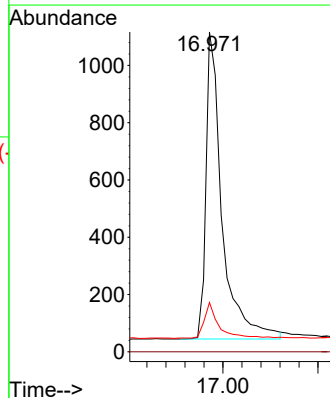
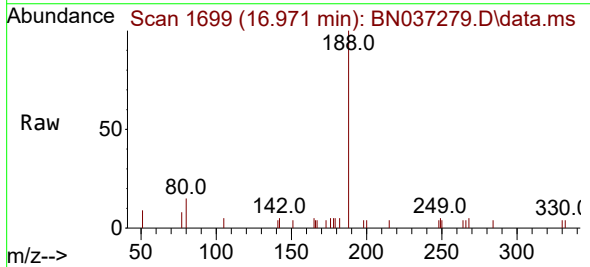
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612

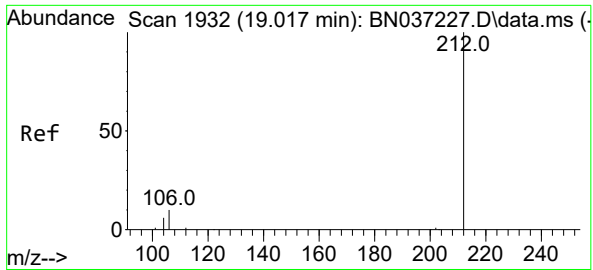
Tgt Ion:	172	Resp:	1595
Ion Ratio	Lower	Upper	
172	100		
171	40.1	29.8	44.8
170	28.8	21.1	31.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

Tgt Ion:	188	Resp:	2526
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.4	12.2	18.4

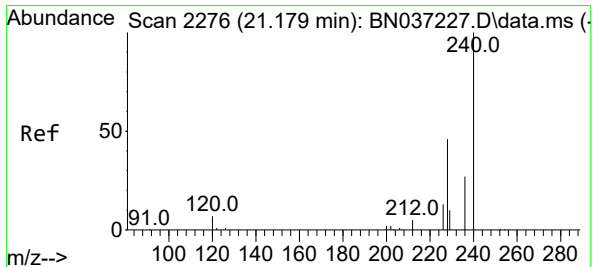
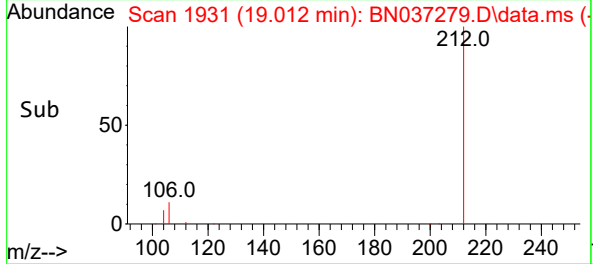
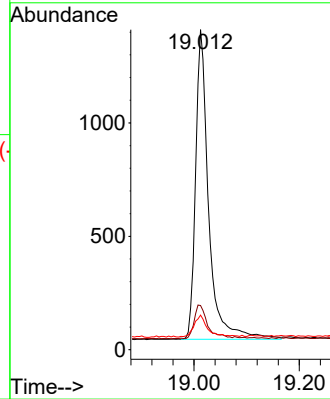
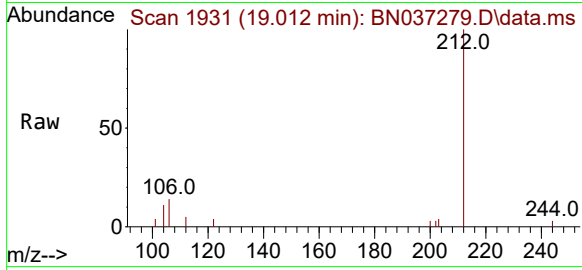




#27
Fluoranthene-d10
Concen: 0.355 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

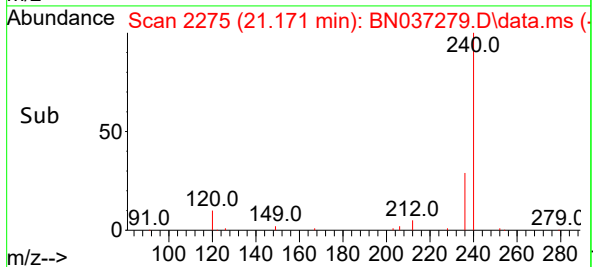
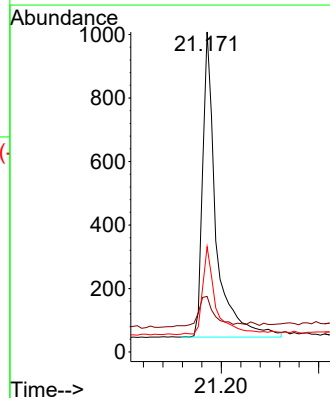
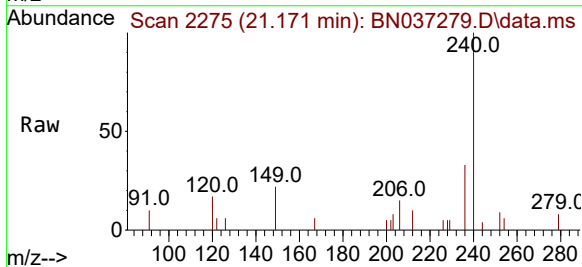
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612

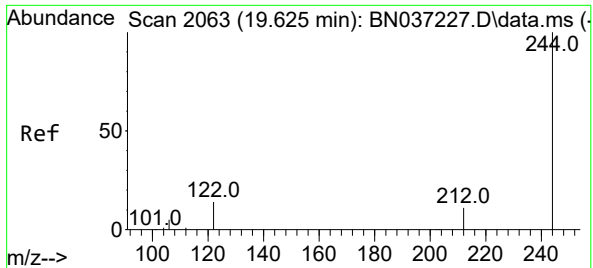
Tgt Ion:212 Resp: 2349
Ion Ratio Lower Upper
212 100
106 11.5 9.3 13.9
104 7.4 5.7 8.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

Tgt Ion:240 Resp: 1833
Ion Ratio Lower Upper
240 100
120 17.4 11.3 16.9#
236 32.9 24.4 36.6

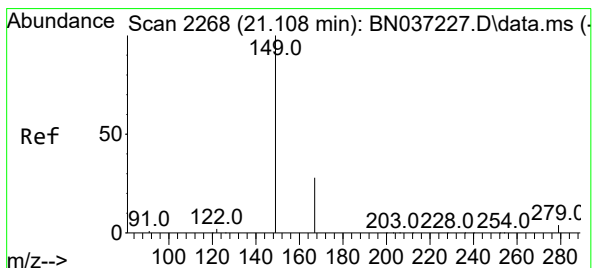
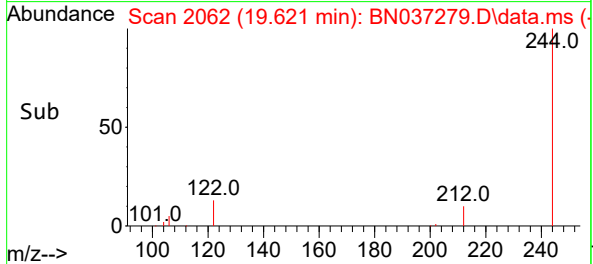
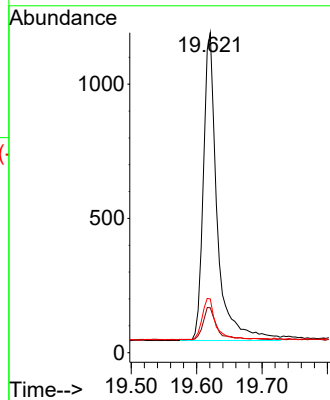
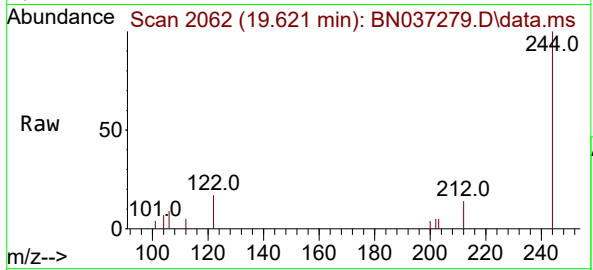




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

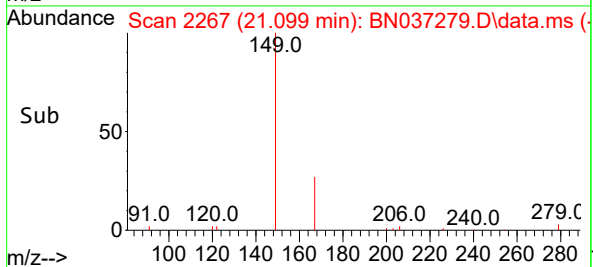
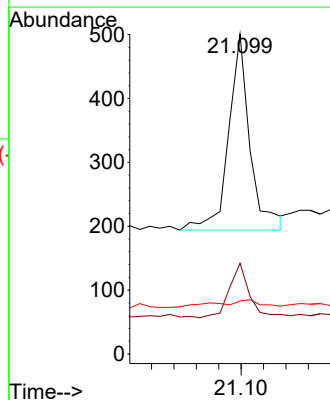
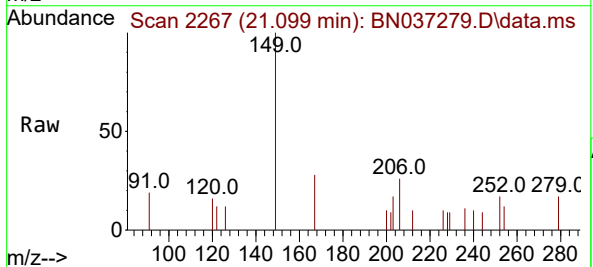
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250612

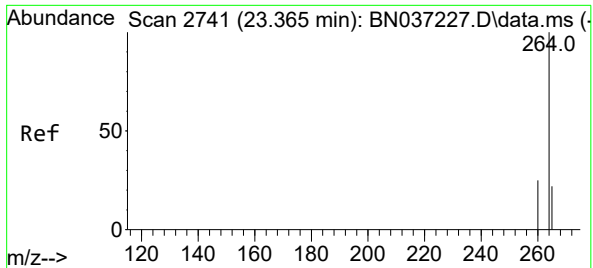
Tgt Ion:244 Resp: 1685
Ion Ratio Lower Upper
244 100
212 14.0 12.2 18.2
122 16.8 14.3 21.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037279.D
Acq: 15 Jun 2025 02:06

Tgt Ion:149 Resp: 405
Ion Ratio Lower Upper
149 100
167 26.2 21.3 31.9
279 6.4 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037279.D

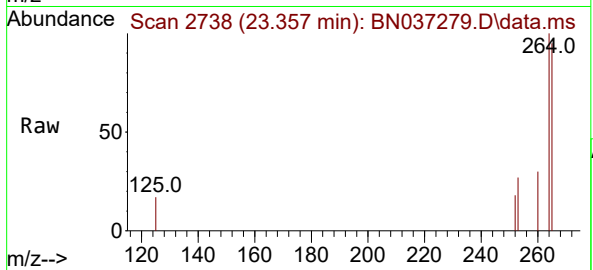
Acq: 15 Jun 2025 02:06

Instrument :

BNA_N

ClientSampleId :

RW8-SP303-20250612



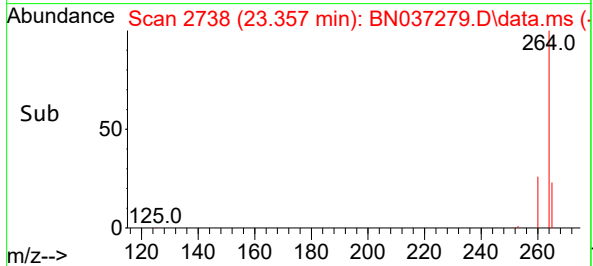
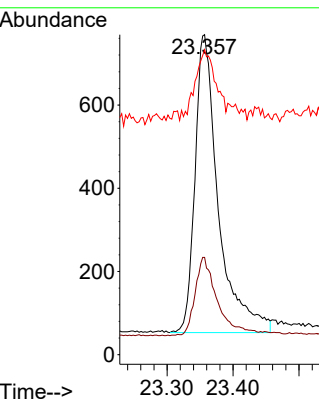
Tgt Ion:264 Resp: 1767

Ion Ratio Lower Upper

264 100

260 30.4 22.8 34.2

265 95.3 66.4 99.6





CALIBRATION SUMMARY

1
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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN061325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jun 13 18:43:34 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037225.D 0.2 =BN037226.D 0.4 =BN037227.D 0.8 =BN037228.D 1.6 =BN037229.D 3.2 =BN037230.D 5.0 =BN037231.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	0.683	0.525	0.535	0.549	0.515	0.486	0.549	12.56	
3)	n-Nitrosodimet...	1.357	1.277	1.208	1.295	1.232	1.134	1.250	6.18	
4) S	2-Fluorophenol	1.043	1.026	0.942	0.907	0.996	0.990	0.972	0.982	4.80
5) S	Phenol-d6	0.875	0.937	0.963	0.986	1.148	1.166	1.173	1.035	11.94
6)	bis(2-Chloroet...	0.768	0.709	0.870	0.955	1.086	1.064	1.040	0.927	16.08
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.366	0.304	0.384	0.377	0.440	0.442	0.453	0.395	13.53
9)	Naphthalene	1.186	1.153	1.133	1.109	1.208	1.161	1.159	1.158	2.83
10)	Hexachlorobuta...	0.299	0.290	0.302	0.271	0.285	0.267	0.258	0.282	5.91
11) SURR2	Methylnaphth...	0.496	0.504	0.557	0.520	0.576	0.552	0.553	0.537	5.64
12)	2-Methylnaphth...	0.631	0.634	0.704	0.699	0.769	0.746	0.745	0.704	7.77
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.126	0.146	0.171	0.171	0.188	0.183	0.178	0.166	13.42
15) S	2-Fluorobiphenyl	1.566	1.530	1.699	1.658	1.822	1.777	1.715	1.681	6.31
16)	Acenaphthylene	1.907	1.870	1.870	1.915	2.077	2.062	2.021	1.960	4.61
17)	Acenaphthene	1.242	1.209	1.240	1.230	1.341	1.318	1.277	1.265	3.87
18)	Fluorene	1.544	1.509	1.593	1.610	1.757	1.714	1.649	1.625	5.46
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.074	0.066	0.086	0.100	0.110	0.116	0.092	21.86	
21)	4-Bromophenyl-...	0.248	0.248	0.244	0.256	0.278	0.276	0.273	0.261	5.65
22)	Hexachlorobenzene	0.342	0.318	0.311	0.284	0.297	0.284	0.279	0.302	7.65
23)	Atrazine	0.223	0.229	0.222	0.228	0.241	0.241	0.244	0.232	3.84
24)	Pentachlorophenol	0.139	0.124	0.137	0.154	0.162	0.171	0.148	11.86	
25)	Phenanthrene	1.253	1.225	1.186	1.238	1.324	1.328	1.327	1.269	4.54
26)	Anthracene	1.094	1.079	1.080	1.138	1.221	1.257	1.261	1.161	7.13
27) SURR	Fluoranthene-d10	1.015	1.073	1.053	1.017	1.053	1.043	1.073	1.046	2.27
28)	Fluoranthene	1.470	1.508	1.412	1.449	1.509	1.510	1.537	1.485	2.94
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.850	1.740	1.962	1.849	2.016	1.892	1.854	1.881	4.74
31) S	Terphenyl-d14	0.815	0.845	0.946	0.871	0.990	0.939	0.924	0.904	6.89
32)	Benzo(a)anthra...	1.175	1.204	1.225	1.332	1.512	1.507	1.499	1.351	11.36
33)	Chrysene	1.783	1.722	1.695	1.617	1.711	1.633	1.616	1.683	3.73
34)	Bis(2-ethylhex...	1.104	1.024	1.000	1.006	0.942	0.960	1.006	5.65	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN061325.M

36)	Indeno(1,2,3-c...	1.506	1.503	1.507	1.486	1.718	1.757	1.813	1.613	8.87
37)	Benzo(b)fluora...	1.309	1.288	1.376	1.456	1.618	1.576	1.620	1.463	9.81
38)	Benzo(k)fluora...	1.835	1.503	1.628	1.667	1.757	1.704	1.728	1.689	6.24
39) C	Benzo(a)pyrene	1.271	1.208	1.234	1.298	1.407	1.382	1.413	1.316	6.42
40)	Dibenzo(a,h)an...	1.106	1.102	1.049	1.118	1.362	1.425	1.427	1.227	13.76
41)	Benzo(g,h,i)pe...	1.504	1.460	1.441	1.386	1.557	1.566	1.557	1.496	4.63

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	859	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2097	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1114	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1916	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1546	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1617	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	224	0.106	ng	0.00
5) Phenol-d6	6.759	99	188	0.085	ng	0.00
8) Nitrobenzene-d5	8.739	82	192	0.093	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	260	0.092	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	35	0.076	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	436	0.093	ng	0.00
27) Fluoranthene-d10	19.021	212	486	0.097	ng	0.00
31) Terphenyl-d14	19.635	244	315	0.090	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.012	93	165	0.083	ng	85
9) Naphthalene	10.404	128	622	0.102	ng	# 77
10) Hexachlorobutadiene	10.693	225	157	0.106	ng	# 95
12) 2-Methylnaphthalene	12.036	142	331	0.090	ng	# 93
16) Acenaphthylene	13.946	152	531	0.097	ng	95
17) Acenaphthene	14.288	154	346	0.098	ng	96
18) Fluorene	15.282	166	430	0.095	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	119	0.095	ng	91
22) Hexachlorobenzene	16.289	284	164	0.113	ng	96
23) Atrazine	16.462	200	107	0.096	ng	# 63
25) Phenanthrene	17.021	178	600	0.099	ng	100
26) Anthracene	17.120	178	524	0.094	ng	100
28) Fluoranthene	19.049	202	704	0.099	ng	99
30) Pyrene	19.412	202	715	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	454	0.087	ng	# 79
33) Chrysene	21.215	228	689	0.106	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.570	276	609	0.093	ng	# 74
37) Benzo(b)fluoranthene	22.719	252	529	0.089	ng	# 41
38) Benzo(k)fluoranthene	22.760	252	742m	0.109	ng	
39) Benzo(a)pyrene	23.284	252	514	0.097	ng	# 23
40) Dibenzo(a,h)anthracene	25.590	278	447m	0.091	ng	
41) Benzo(g,h,i)perylene	26.228	276	608	0.101	ng	# 64

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

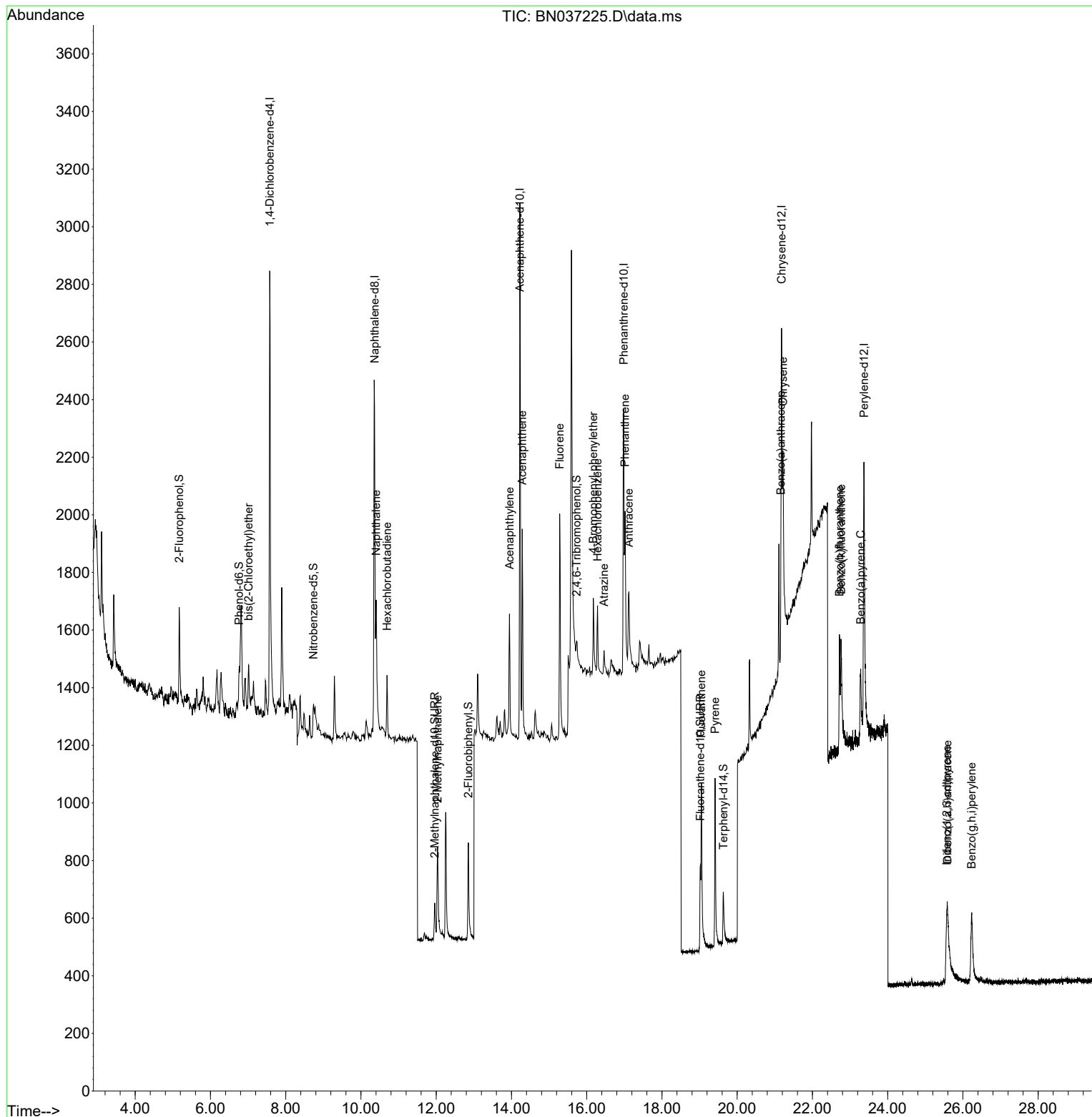
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Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

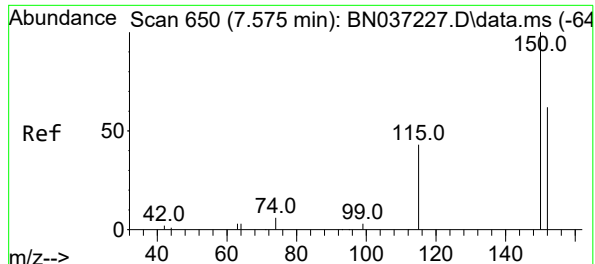
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

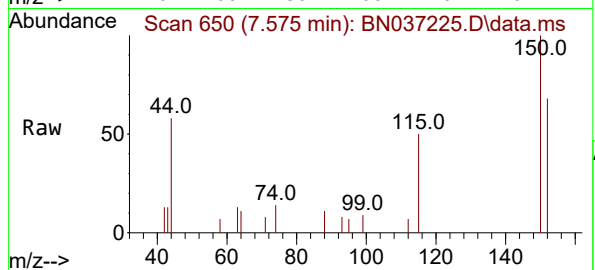
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 650
Delta R.T. -0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

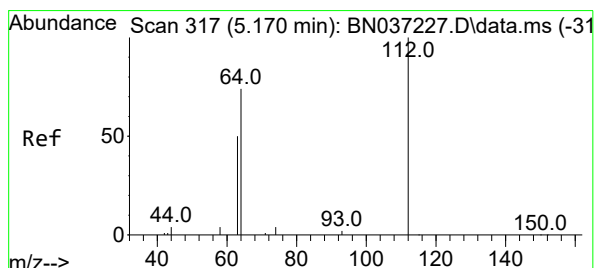
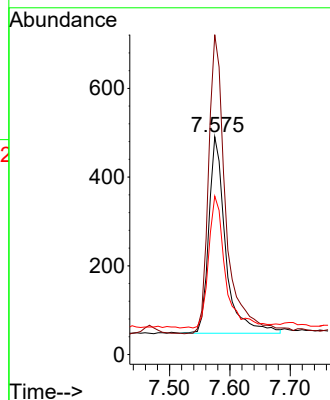
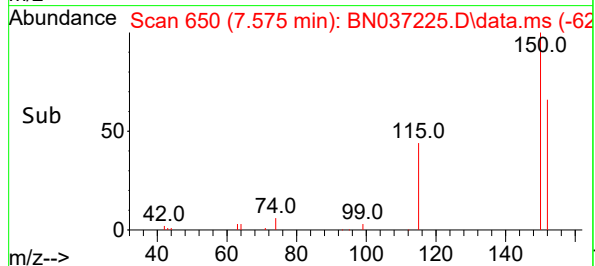
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 859
Ion Ratio Lower Upper
152 100
150 146.8 125.2 187.8
115 72.7 58.4 87.6

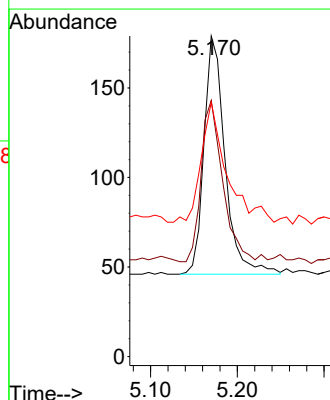
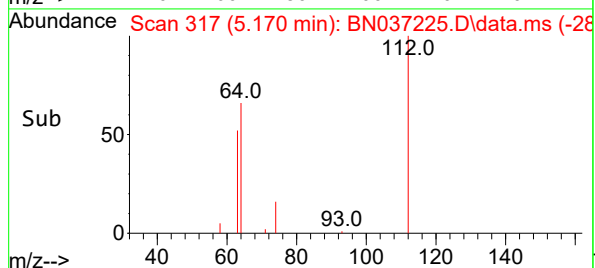
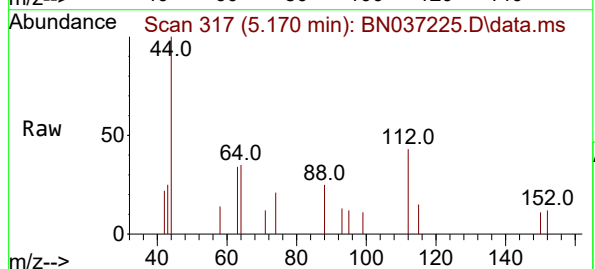
Manual Integrations
APPROVED

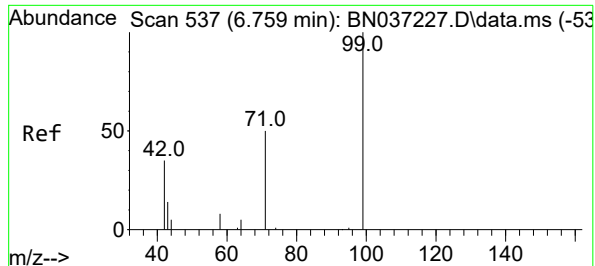
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:112 Resp: 224
Ion Ratio Lower Upper
112 100
64 69.2 57.2 85.8
63 65.6 39.8 59.6#





#5

Phenol-d6

Concen: 0.085 ng

RT: 6.759 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

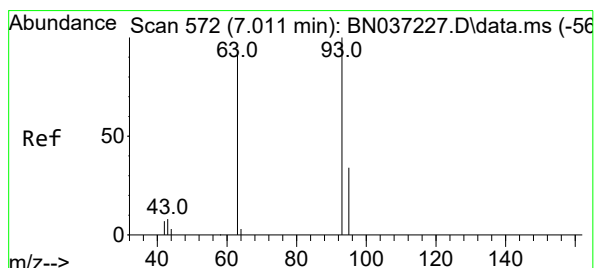
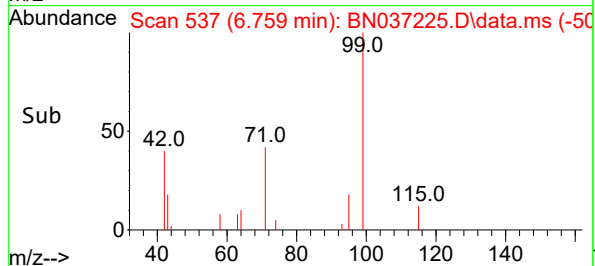
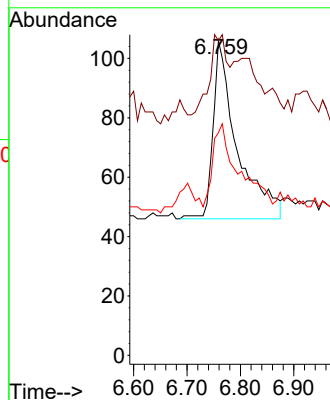
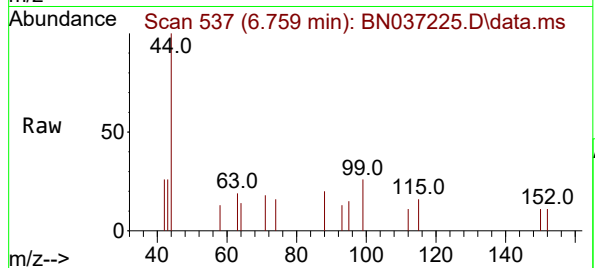
ClientSampleId :

SSTDICC0.1

Tgt Ion:	99	Resp:	188
Ion	Ratio	Lower	Upper
99	100		
42	33.0	36.2	54.4
71	51.1	42.4	63.6

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6

bis(2-Chloroethyl)ether

Concen: 0.083 ng

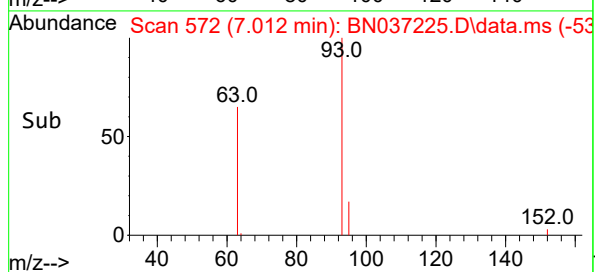
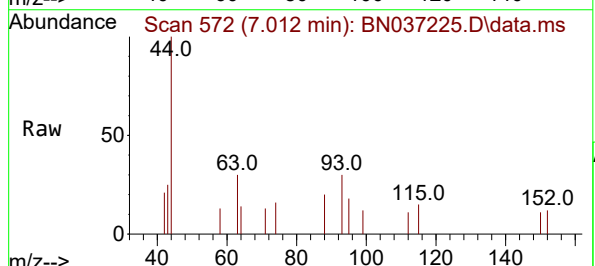
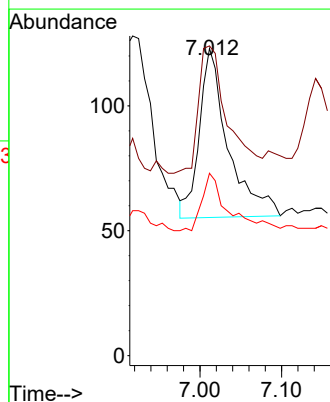
RT: 7.012 min Scan# 572

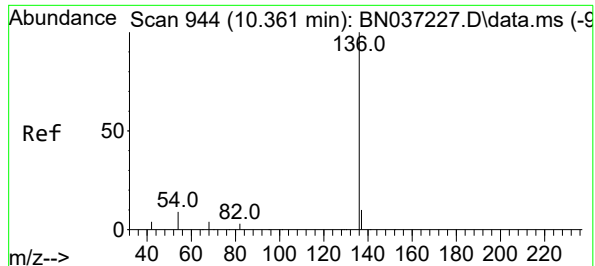
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

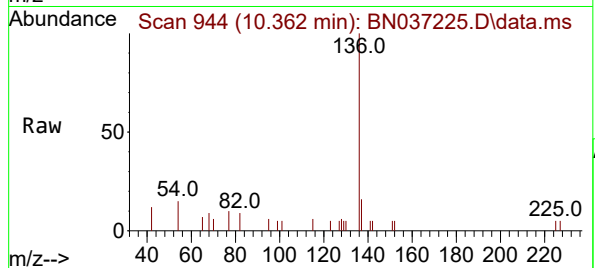
Tgt Ion:	93	Resp:	165
Ion	Ratio	Lower	Upper
93	100		
63	76.4	75.2	112.8
95	30.9	28.3	42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

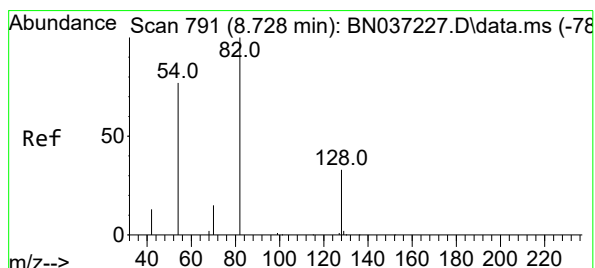
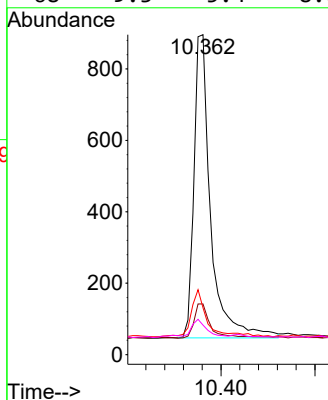
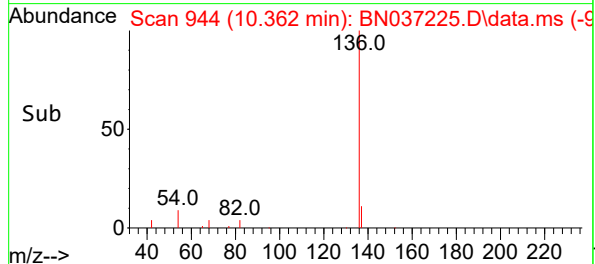
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1



Tgt Ion: 136 Resp: 209
Ion Ratio Lower Upper
136 100
137 15.8 10.6 15.8
54 14.6 9.2 13.8
68 9.3 5.4 8.0#

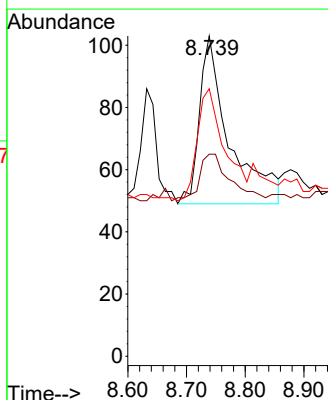
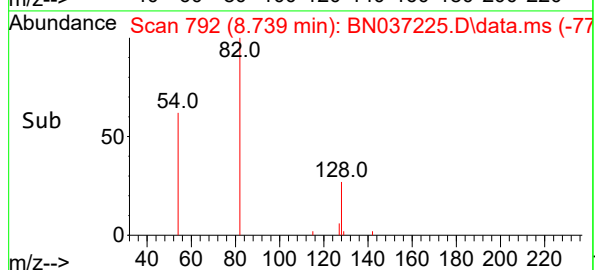
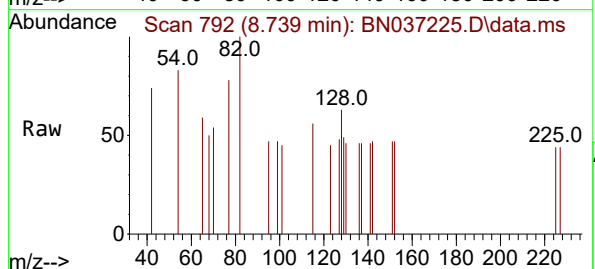
Manual Integrations
APPROVED

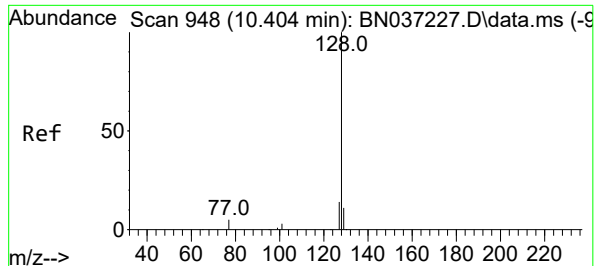
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.093 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 82 Resp: 192
Ion Ratio Lower Upper
82 100
128 63.1 31.2 46.8#
54 83.5 63.3 94.9





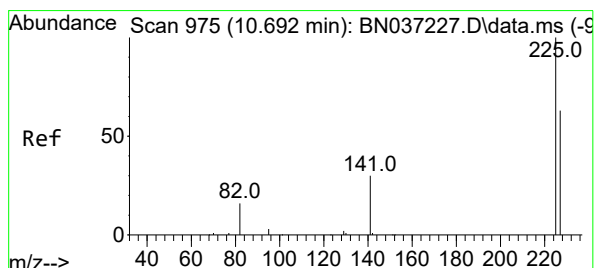
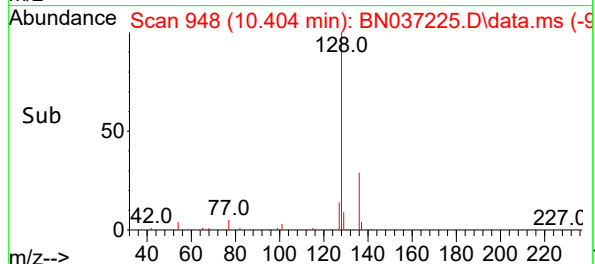
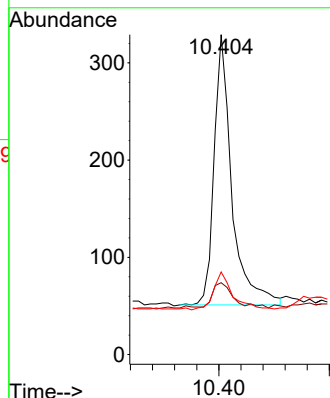
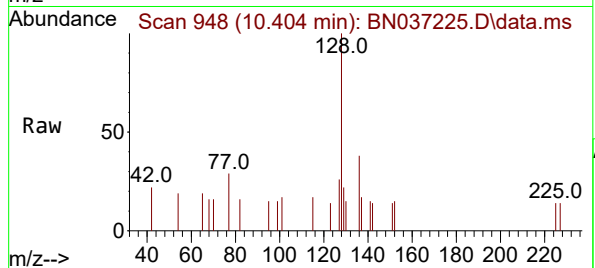
#9
Naphthalene
Concen: 0.102 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 62.0
Ion Ratio Lower Upper
128 100
129 22.5 10.7 16.1
127 25.8 12.6 19.0

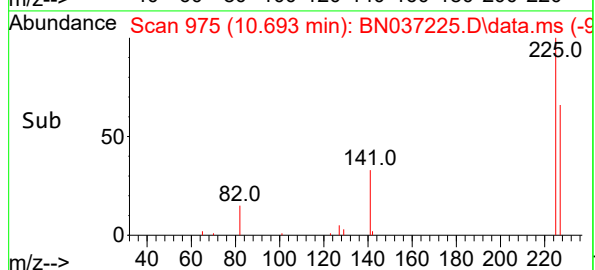
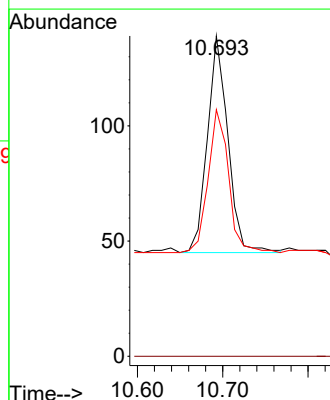
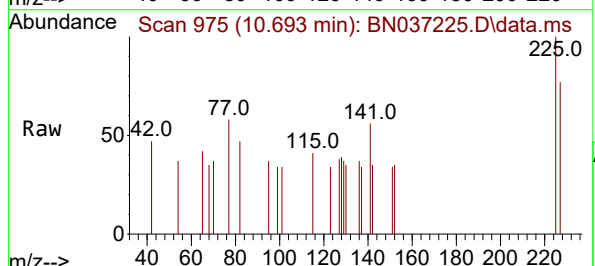
Manual Integrations
APPROVED

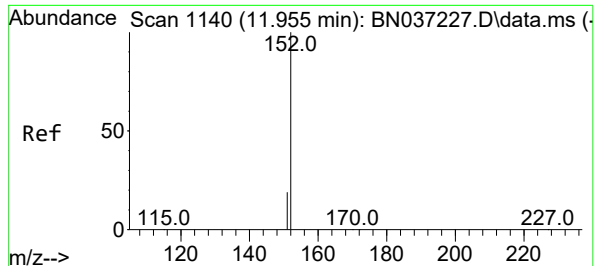
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

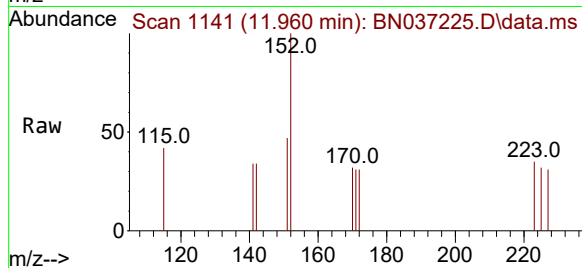
Tgt Ion:225 Resp: 157
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.6 49.2 73.8





#11
2-Methylnaphthalene-d10
Concen: 0.092 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

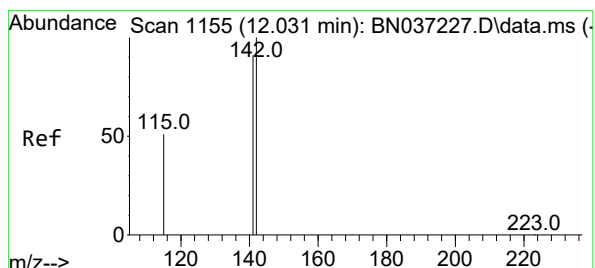
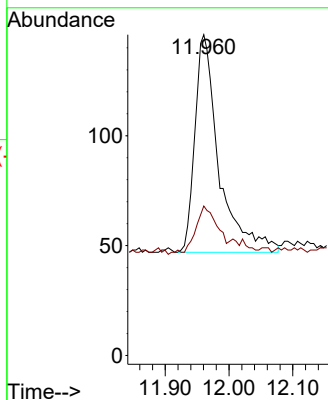
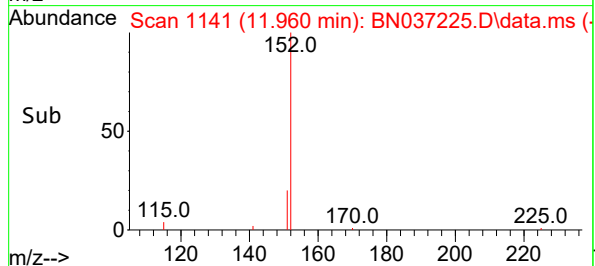
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



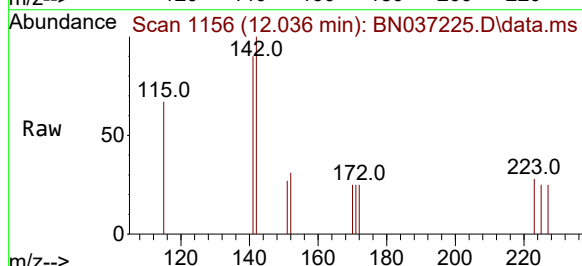
Tgt Ion:152 Resp: 260
Ion Ratio Lower Upper
152 100
151 20.8 17.9 26.9

Manual Integrations
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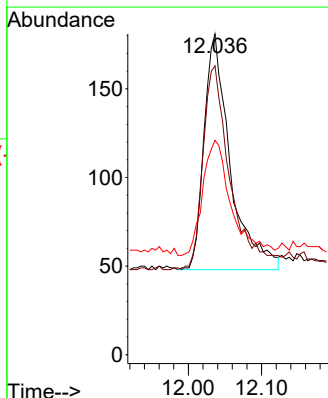
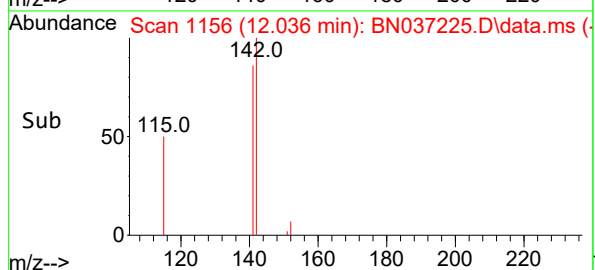
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

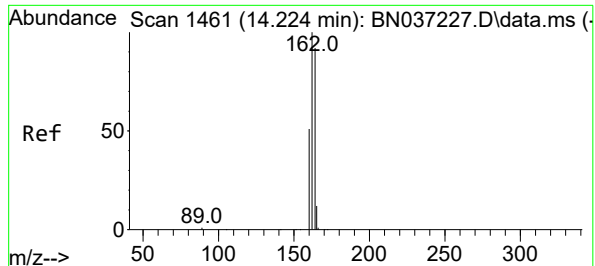


#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33



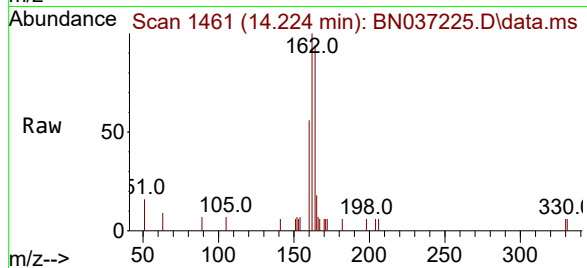
Tgt Ion:142 Resp: 331
Ion Ratio Lower Upper
142 100
141 90.1 73.0 109.6
115 66.9 43.3 64.9#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

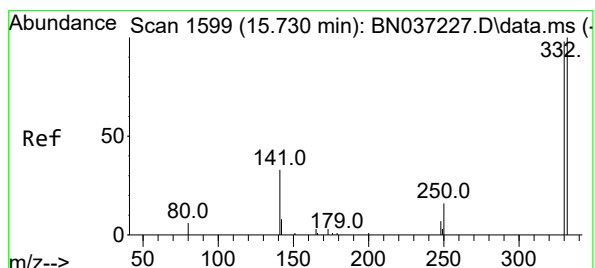
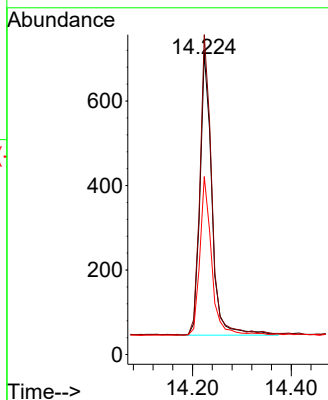
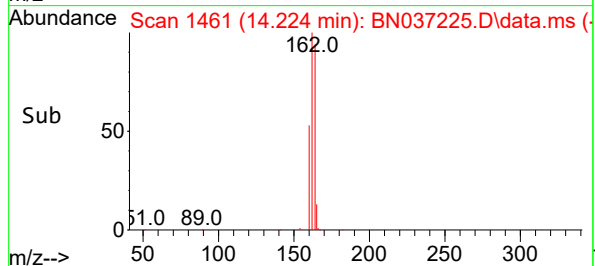
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



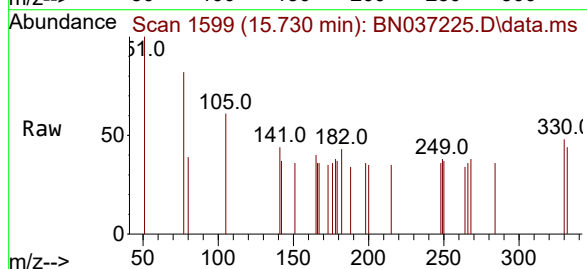
Tgt Ion:164 Resp: 1114
Ion Ratio Lower Upper
164 100
162 106.2 86.7 130.1
160 59.0 45.8 68.6

Manual Integrations
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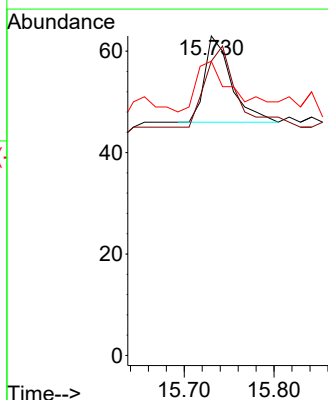
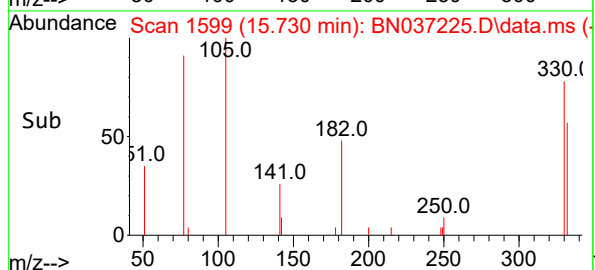
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

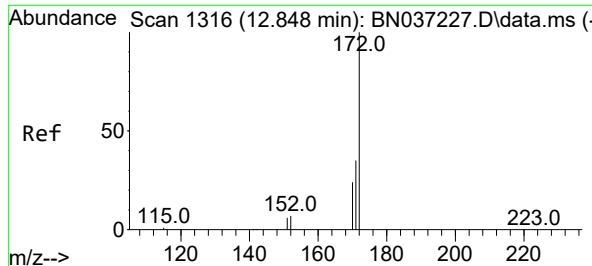


#14
2,4,6-Tribromophenol
Concen: 0.076 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33



Tgt Ion:330 Resp: 35
Ion Ratio Lower Upper
330 100
332 111.4 74.9 112.3
141 82.9 45.1 67.7#





#15

2-Fluorobiphenyl

Concen: 0.093 ng

RT: 12.853 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

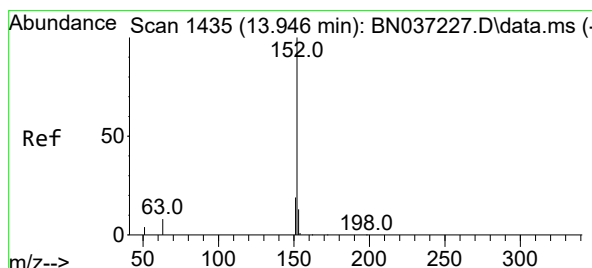
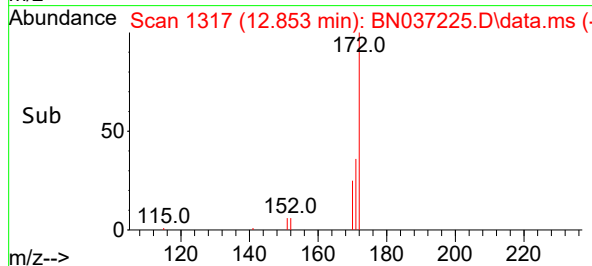
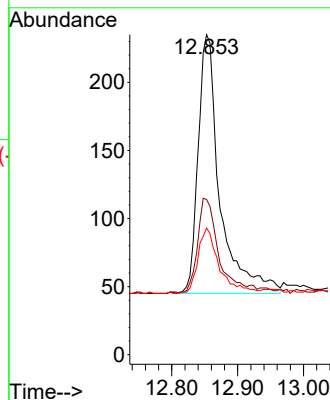
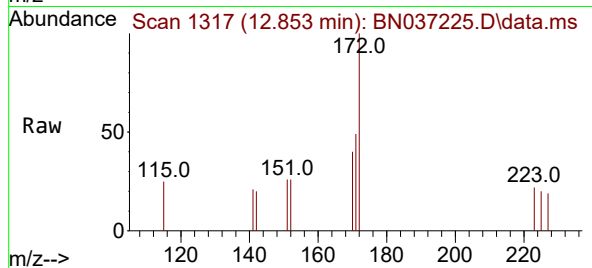
Tgt Ion:	172	Resp:	430
Ion	Ratio	Lower	Upper
172	100		
171	48.5	29.8	44.8
170	39.6	21.1	31.7

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#16

Acenaphthylene

Concen: 0.097 ng

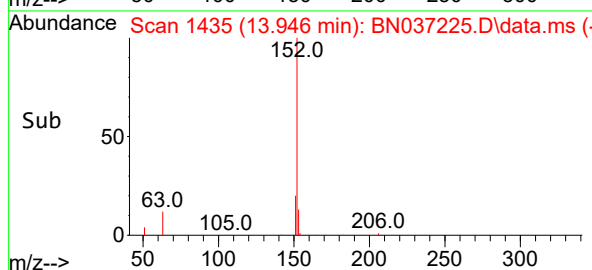
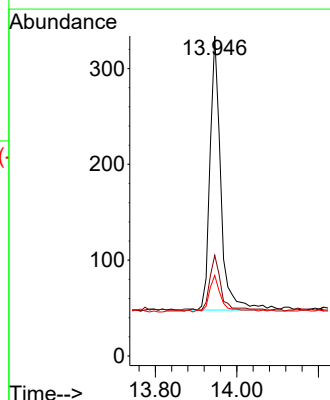
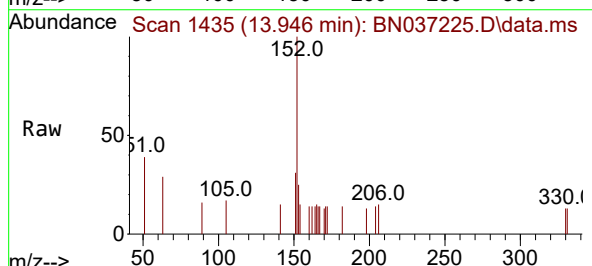
RT: 13.946 min Scan# 1435

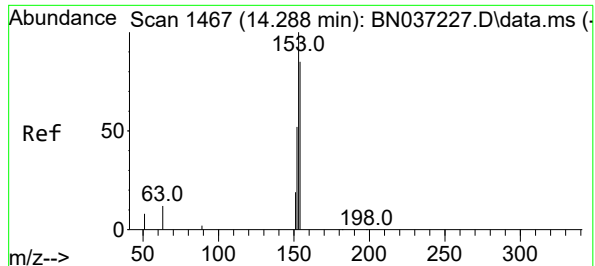
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

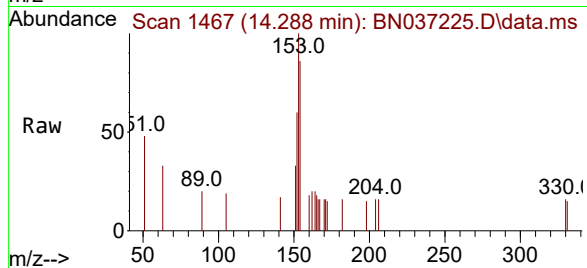
Tgt Ion:	152	Resp:	531
Ion	Ratio	Lower	Upper
152	100		
151	22.4	15.7	23.5
153	14.9	10.7	16.1





#17
Acenaphthene
Concen: 0.098 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

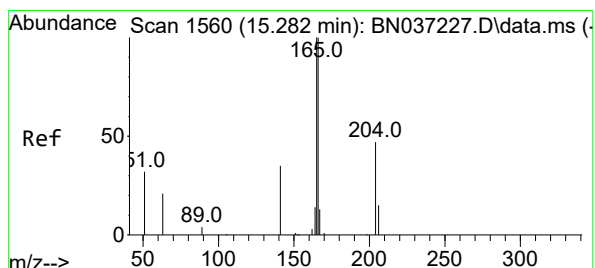
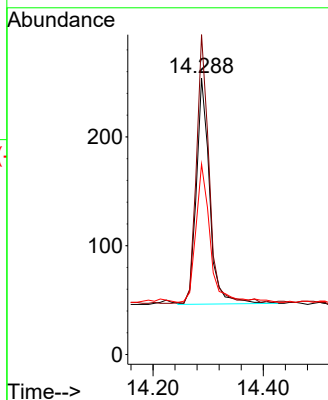
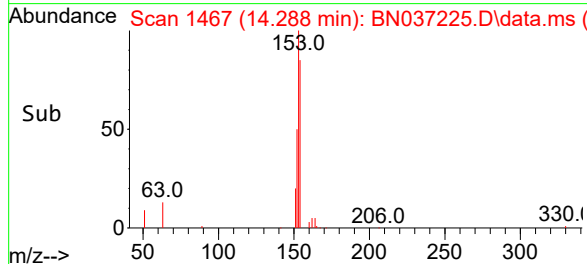
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



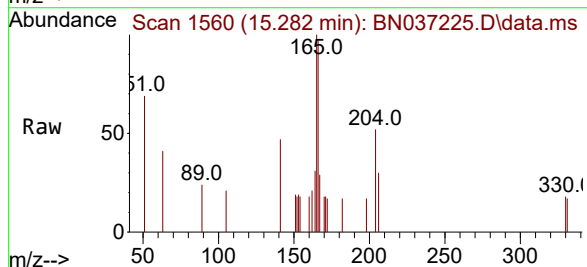
Tgt Ion:154 Resp: 340
Ion Ratio Lower Upper
154 100
153 114.5 94.6 141.8
152 65.9 49.6 74.4

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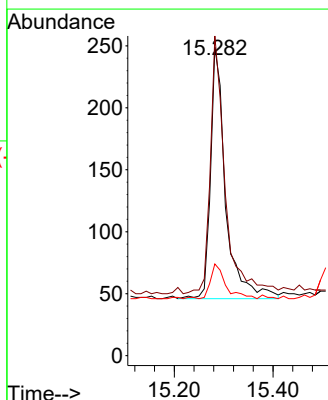
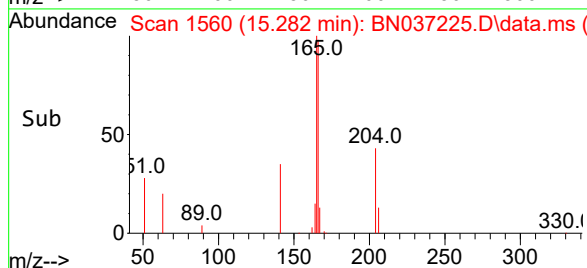
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

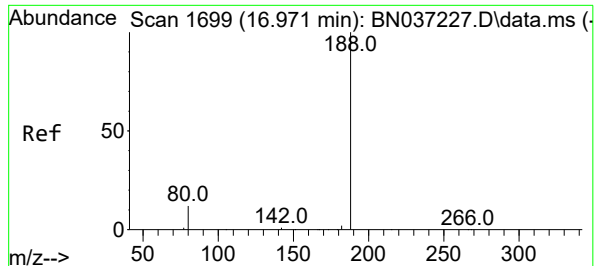


#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33



Tgt Ion:166 Resp: 430
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.6
167 14.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1

Delta R.T. 0.013 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

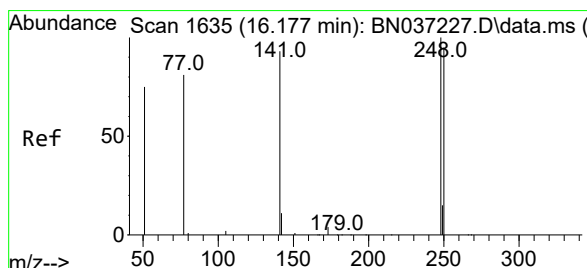
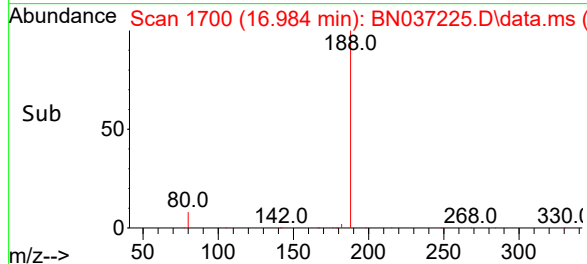
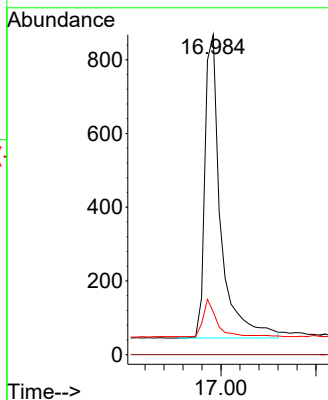
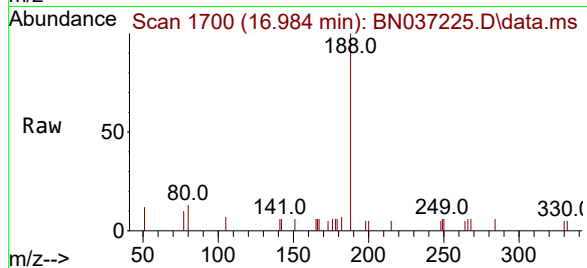
ClientSampleId :

SSTDICC0.1

Tgt Ion:	188	Resp:	1910
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.4	12.2	18.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#21

4-Bromophenyl-phenylether

Concen: 0.095 ng

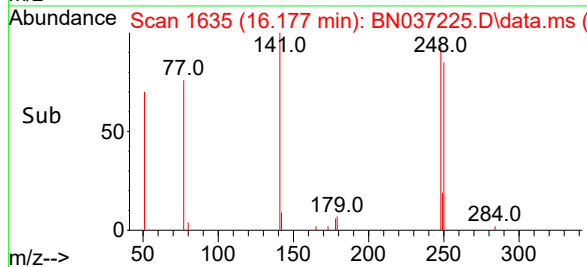
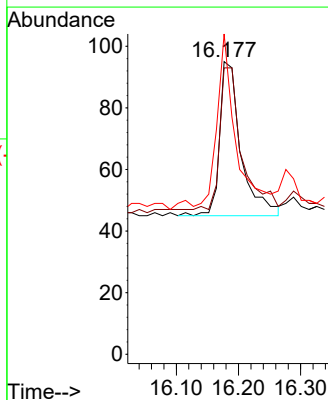
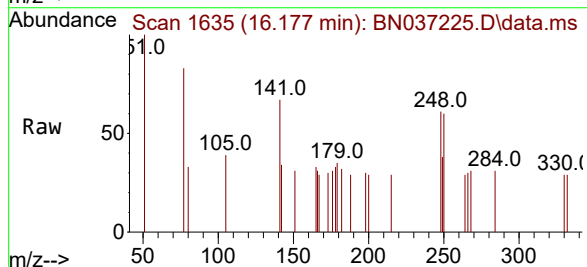
RT: 16.177 min Scan# 1635

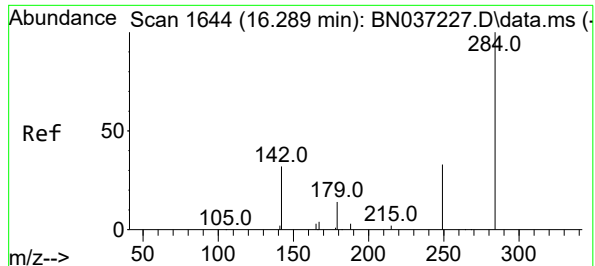
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	248	Resp:	119
Ion Ratio	Lower	Upper	
248	100		
250	97.9	76.8	115.2
141	109.5	75.6	113.4





#22

Hexachlorobenzene

Concen: 0.113 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

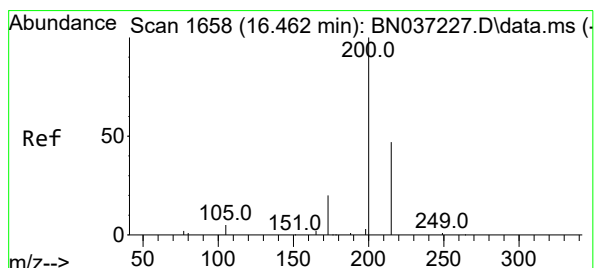
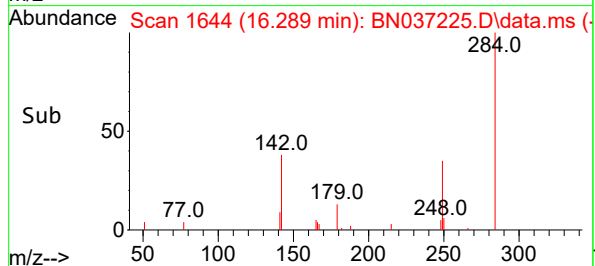
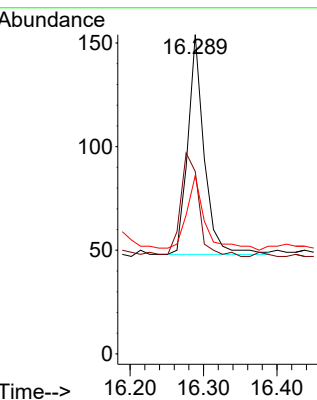
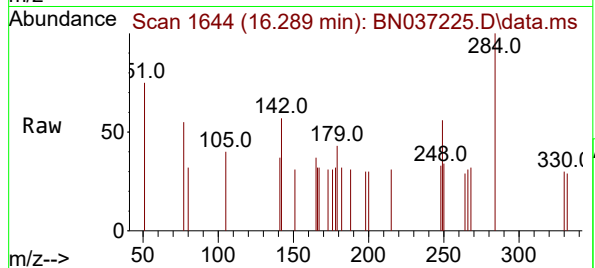
ClientSampleId :

SSTDIC0.1

Tgt Ion:	284	Resp:	164
Ion Ratio	Lower	Upper	
284	100		
142	52.4	43.8	65.6
249	38.4	28.4	42.6

Manual Integrations
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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#23

Atrazine

Concen: 0.096 ng

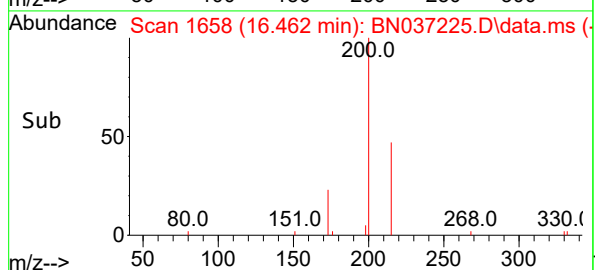
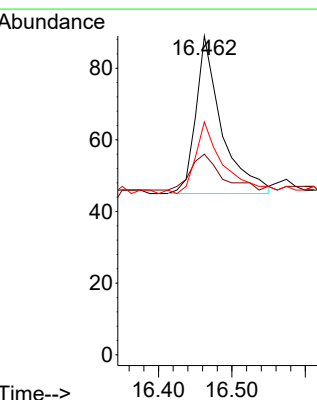
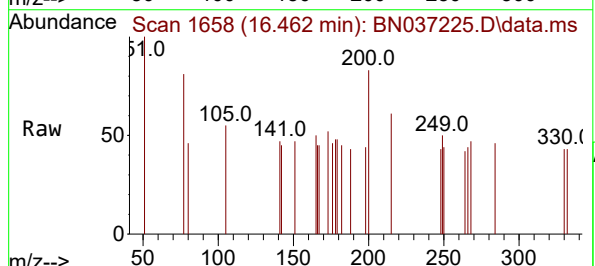
RT: 16.462 min Scan# 1658

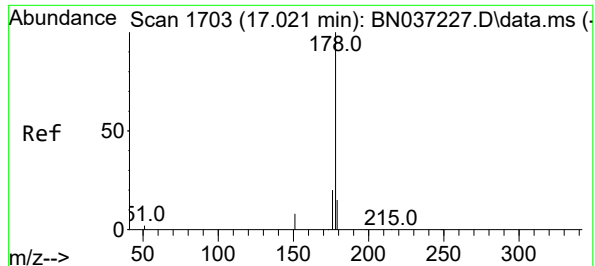
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	200	Resp:	107
Ion Ratio	Lower	Upper	
200	100		
173	62.9	25.1	37.7#
215	73.0	43.7	65.5#





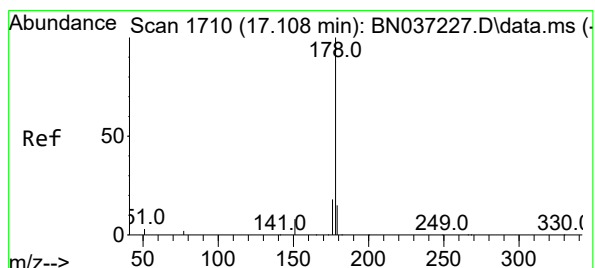
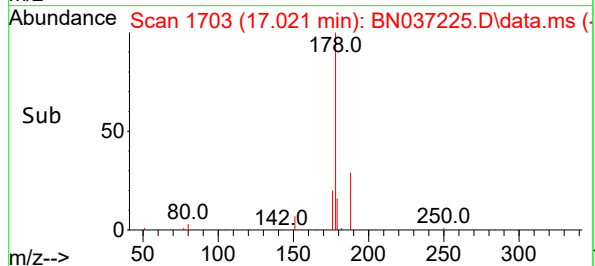
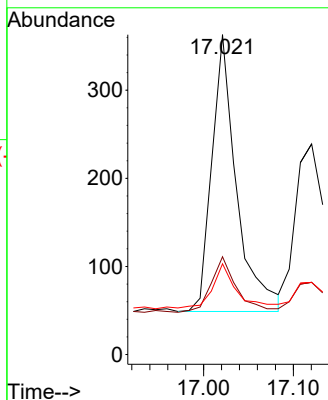
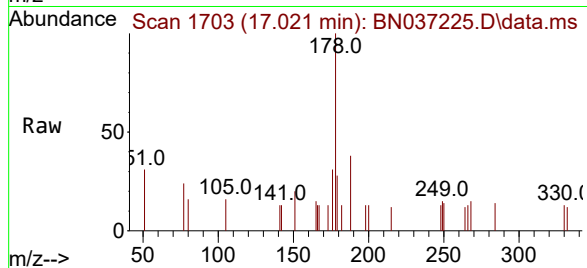
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 600
Ion Ratio Lower Upper
178 100
176 20.3 16.3 24.5
179 15.8 12.6 18.8

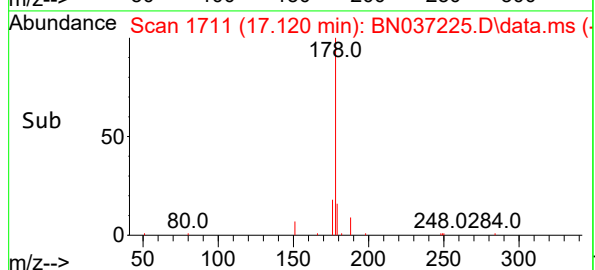
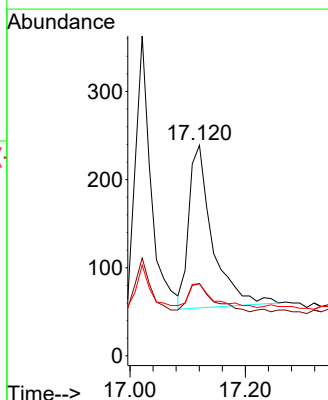
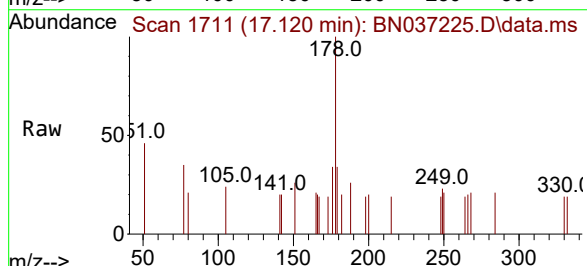
Manual Integrations
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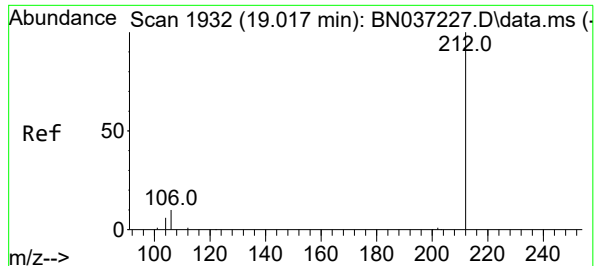
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#26
Anthracene
Concen: 0.094 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:178 Resp: 524
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.1 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.097 ng

RT: 19.021 min Scan# 1933

Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

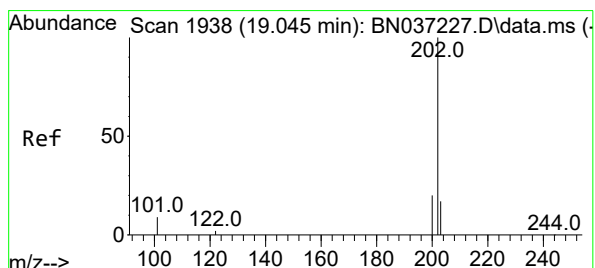
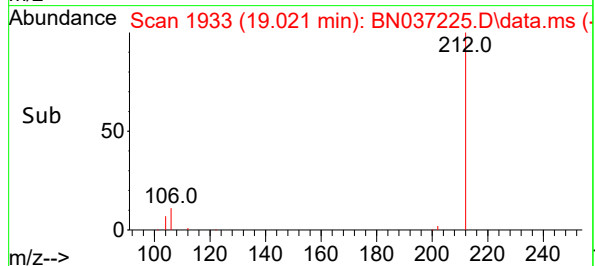
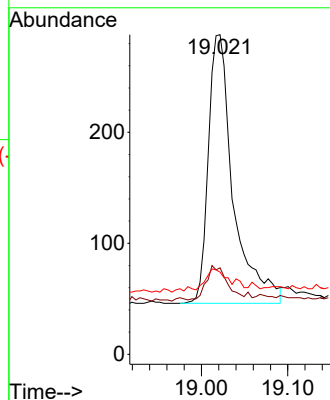
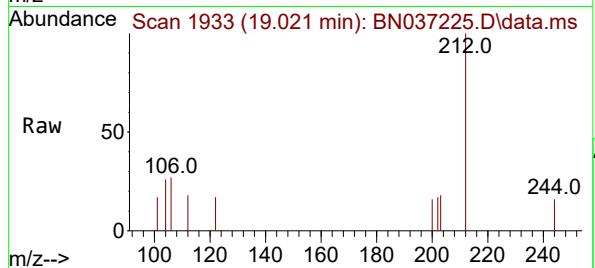
ClientSampleId :

SSTDICC0.1

Tgt Ion:	212	Resp:	480
Ion Ratio	Lower	Upper	
212	100		
106	10.5	9.3	13.9
104	9.7	5.7	8.5

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#28

Fluoranthene

Concen: 0.099 ng

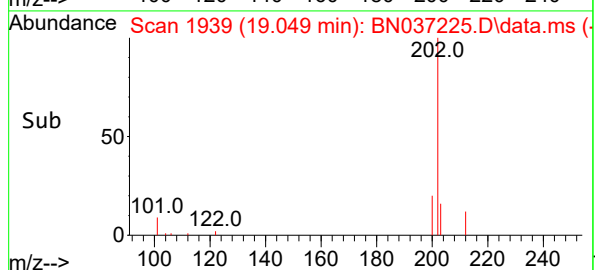
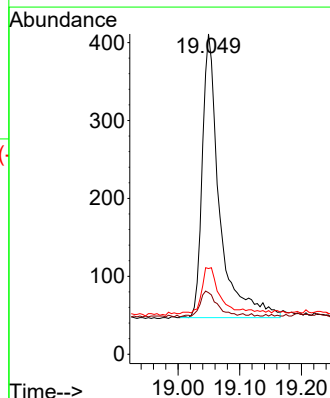
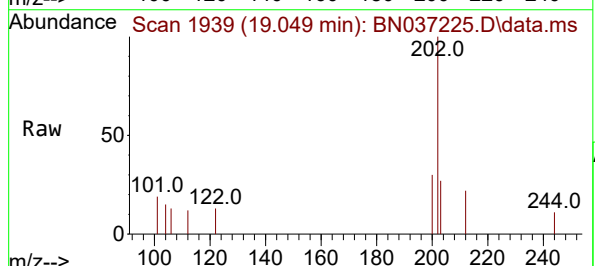
RT: 19.049 min Scan# 1939

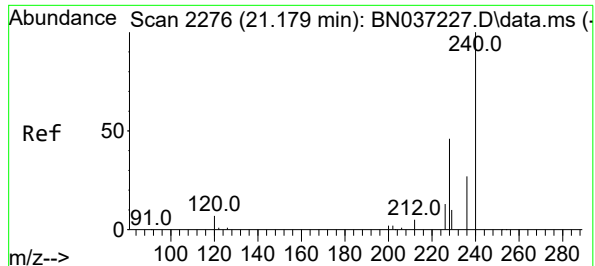
Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	202	Resp:	704
Ion Ratio	Lower	Upper	
202	100		
101	9.1	7.1	10.7
203	15.9	13.0	19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

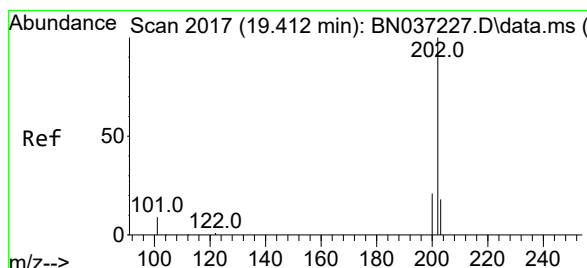
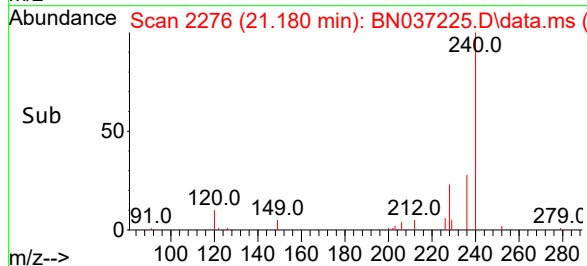
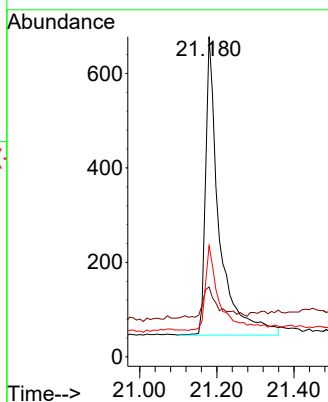
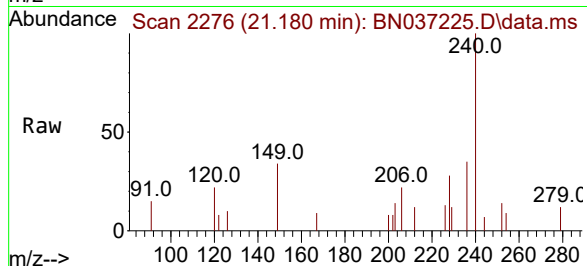
ClientSampleId :

SSTDIC0.1

Tgt Ion:	240	Resp:	1540
Ion Ratio	Lower	Upper	
240	100		
120	21.8	11.3	16.9
236	34.7	24.4	36.6

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#30

Pyrene

Concen: 0.098 ng

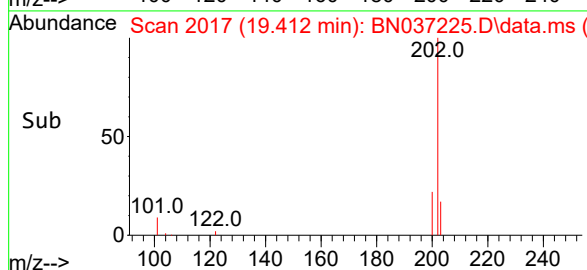
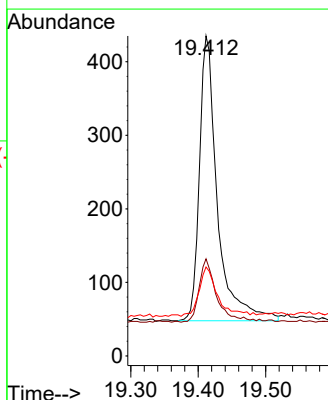
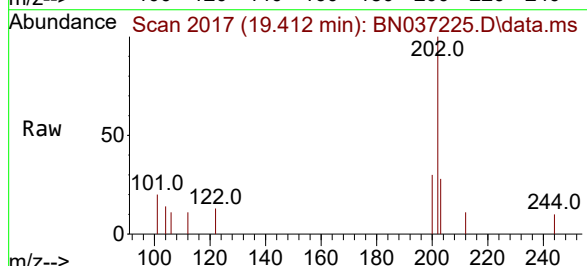
RT: 19.412 min Scan# 2017

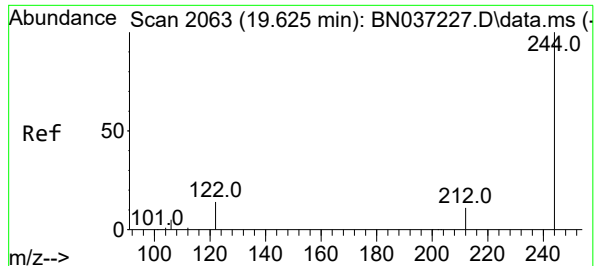
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

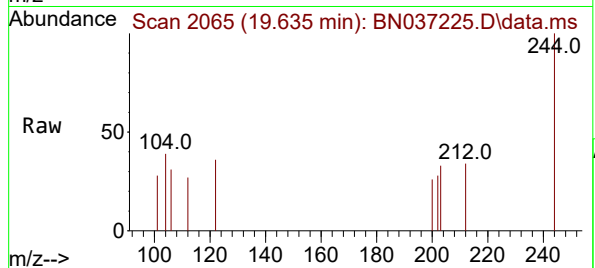
Tgt Ion:	202	Resp:	715
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.2	25.8
203	18.0	14.3	21.5





#31
Terphenyl-d14
Concen: 0.090 ng
RT: 19.635 min Scan# 2065
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

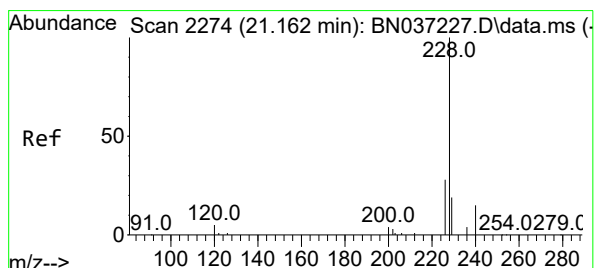
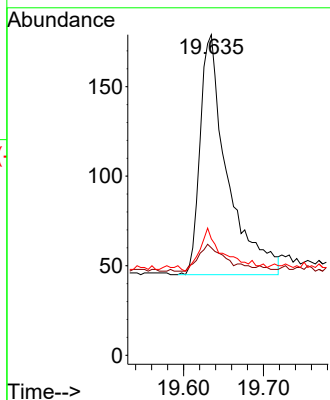
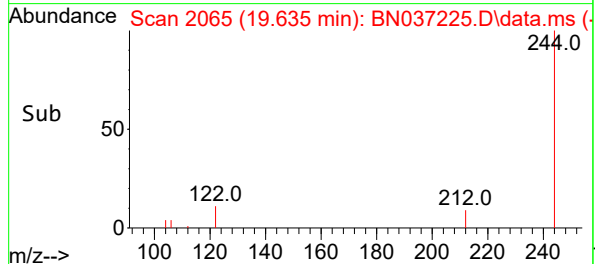
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:244 Resp: 315
Ion Ratio Lower Upper
244 100
212 33.5 12.2 18.2
122 36.3 14.3 21.5

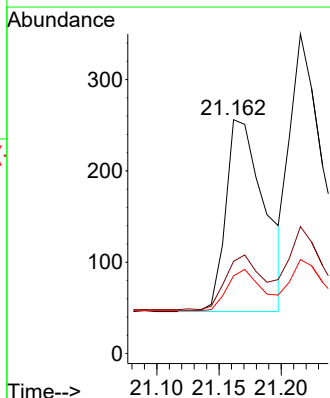
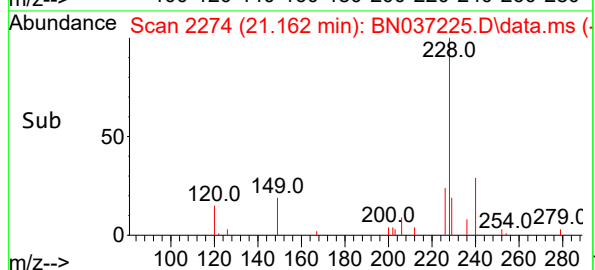
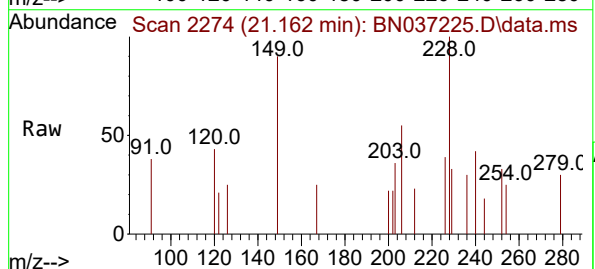
Manual Integrations
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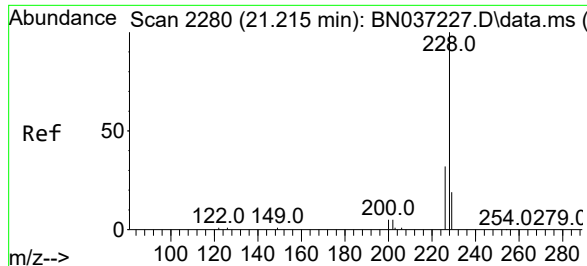
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32
Benzo(a)anthracene
Concen: 0.087 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 454
Ion Ratio Lower Upper
228 100
226 39.5 23.8 35.8#
229 33.2 17.0 25.4#





#33

Chrysene

Concen: 0.106 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

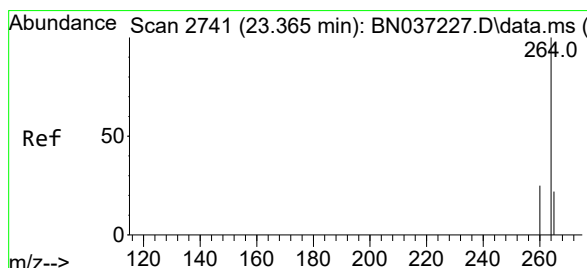
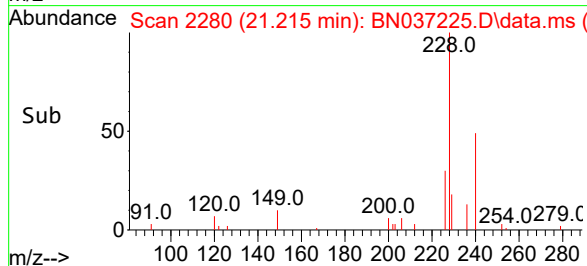
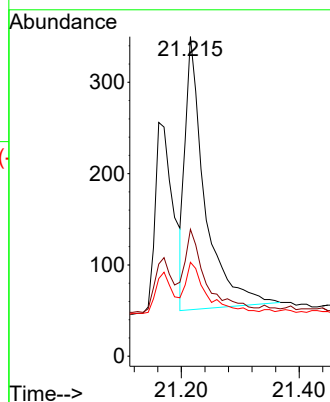
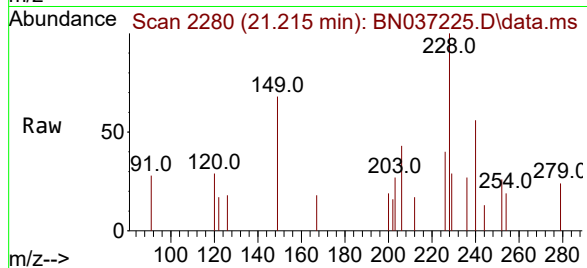
ClientSampleId :

SSTDICC0.1

Tgt Ion:	228	Resp:	689
Ion Ratio	Lower	Upper	
228	100		
226	39.7	25.8	38.6
229	29.4	17.0	25.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#35

Perylene-d12

Concen: 0.400 ng

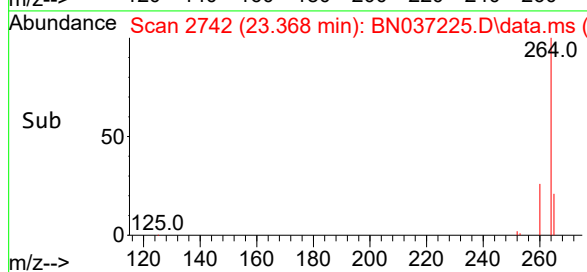
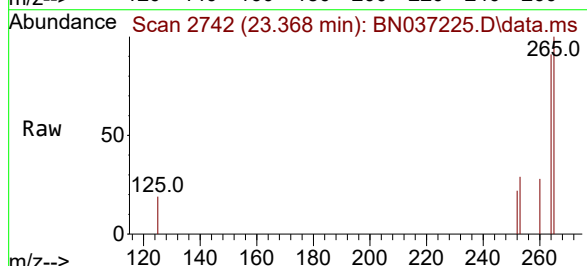
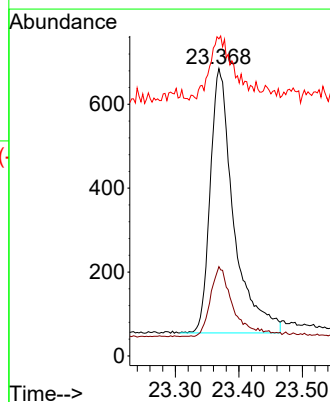
RT: 23.368 min Scan# 2742

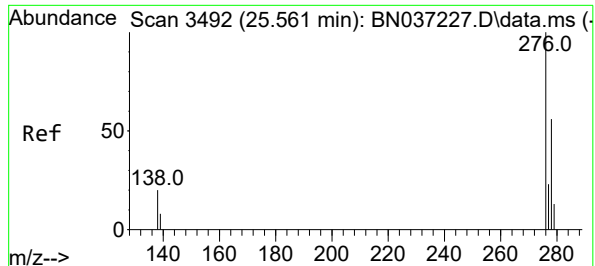
Delta R.T. 0.003 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

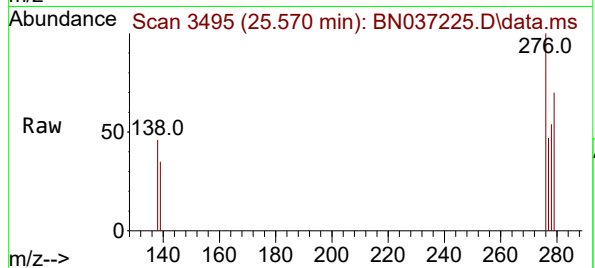
Tgt Ion:	264	Resp:	1617
Ion Ratio	Lower	Upper	
264	100		
260	31.1	22.8	34.2
265	110.4	66.4	99.6





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.570 min Scan# 3492
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

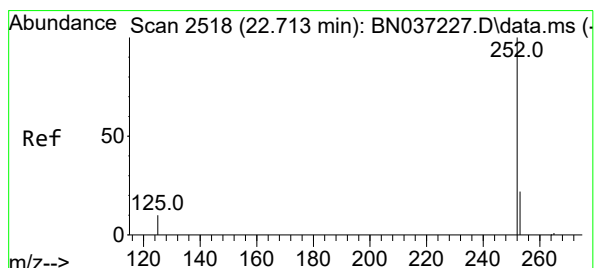
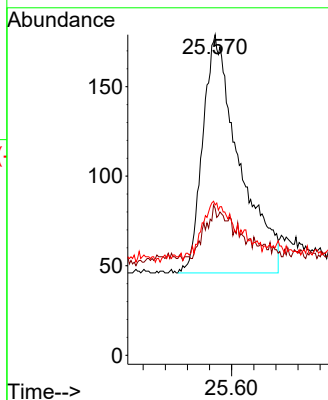
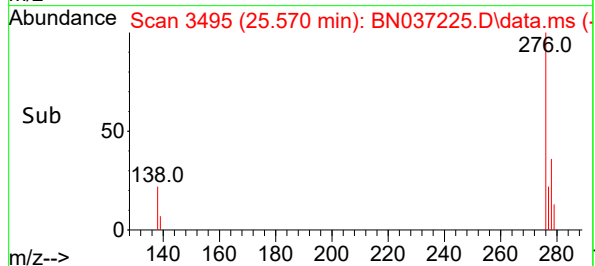
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



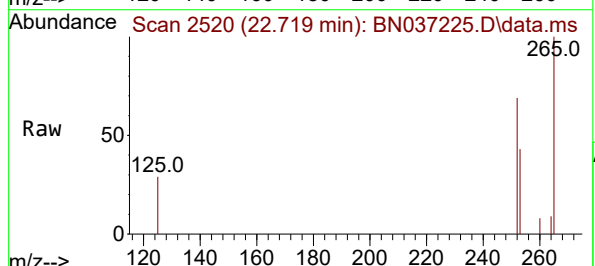
Tgt Ion:276 Resp: 609
Ion Ratio Lower Upper
276 100
138 1.3 16.8 25.2#
277 18.6 19.5 29.3#

Manual Integrations
APPROVED

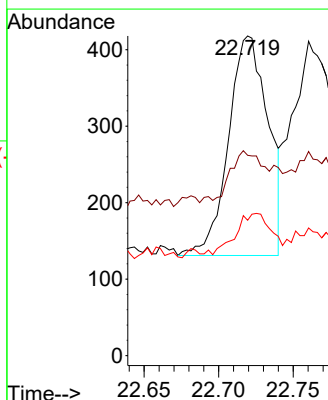
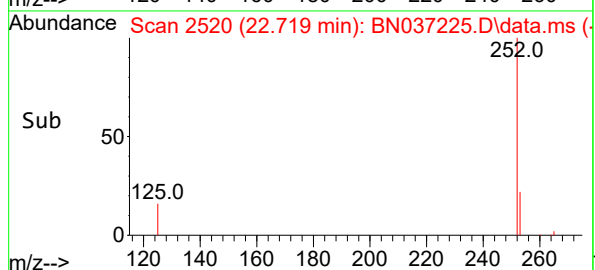
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

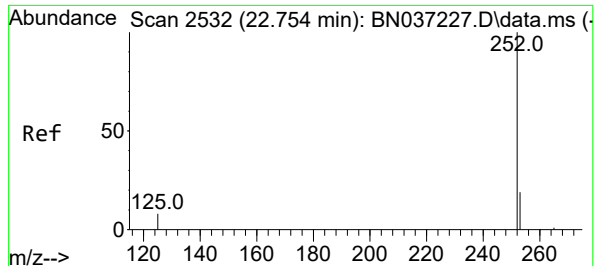


#37
Benzo(b)fluoranthene
Concen: 0.089 ng
RT: 22.719 min Scan# 2520
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33



Tgt Ion:252 Resp: 529
Ion Ratio Lower Upper
252 100
253 62.7 24.9 37.3#
125 42.3 12.9 19.3#





#38

Benzo(k)fluoranthene

Concen: 0.109 ng m

RT: 22.760 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

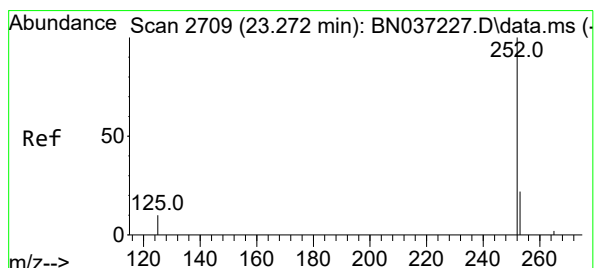
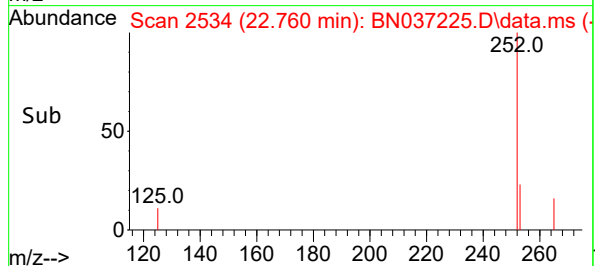
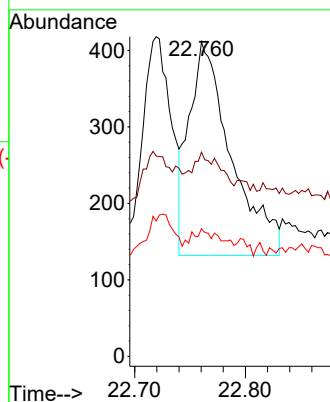
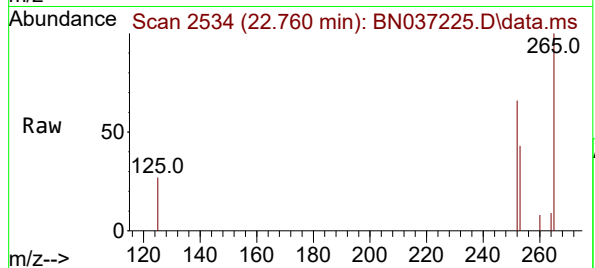
Tgt Ion:252 Resp: 74

Ion	Ratio	Lower	Upper
252	100		
253	65.0	24.6	37.0
125	40.6	13.4	20.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.284 min Scan# 2713

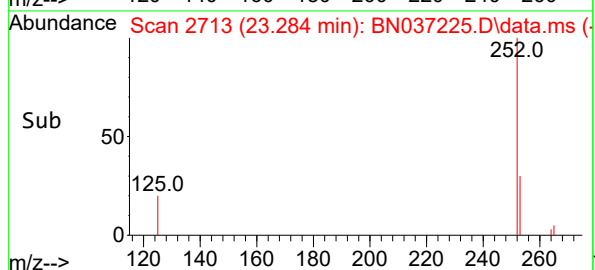
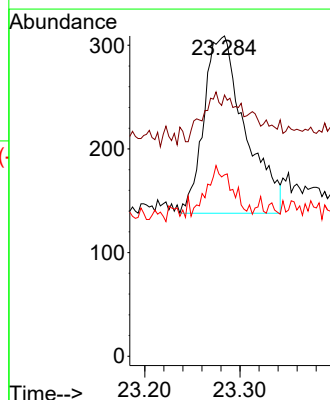
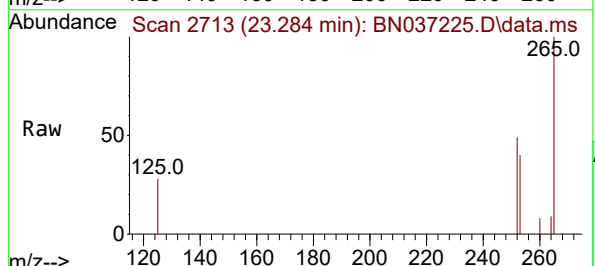
Delta R.T. 0.012 min

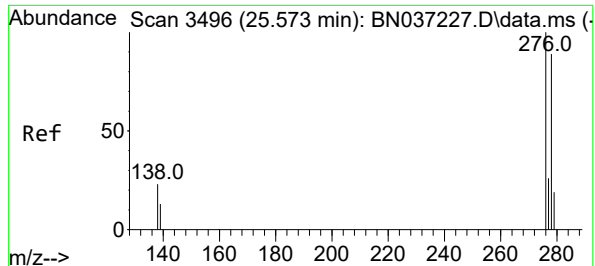
Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 514

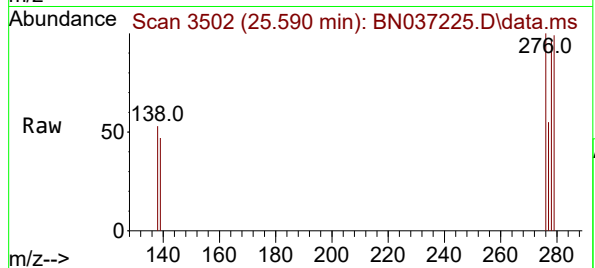
Ion	Ratio	Lower	Upper
252	100		
253	81.6	29.4	44.2
125	56.6	16.2	24.2





#40
Dibenzo(a,h)anthracene
Concen: 0.091 ng m
RT: 25.590 min Scan# 31
Delta R.T. 0.018 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

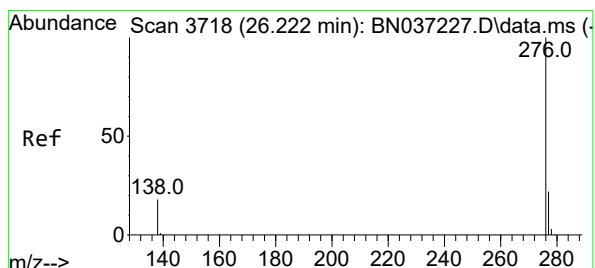
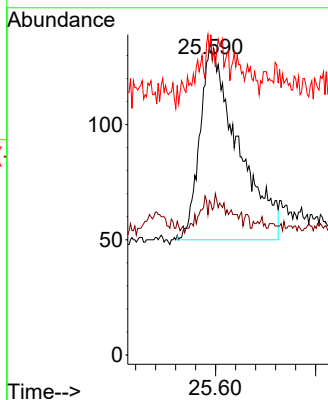
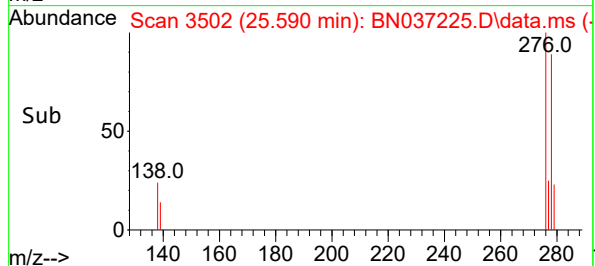
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:278 Resp: 44
Ion Ratio Lower Upper
278 100
139 48.9 17.8 26.6
279 103.0 31.3 46.9

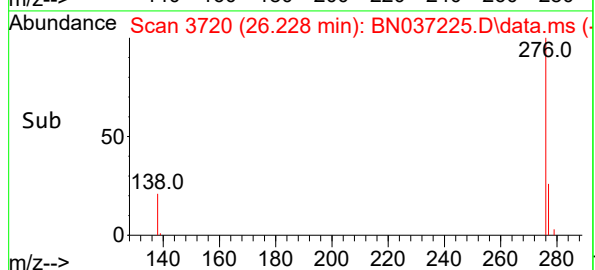
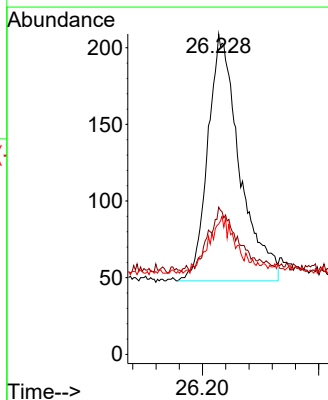
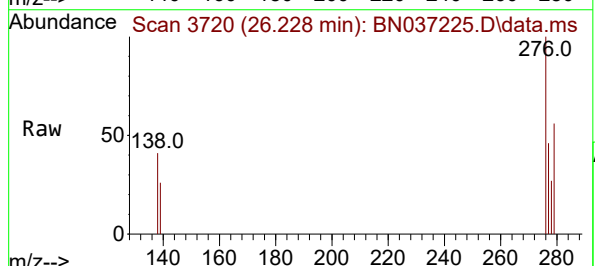
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#41
Benzo(g,h,i)perylene
Concen: 0.101 ng
RT: 26.228 min Scan# 3720
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:276 Resp: 608
Ion Ratio Lower Upper
276 100
277 45.9 22.0 33.0#
138 40.7 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037226.D
 Acq On : 13 Jun 2025 14:10
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

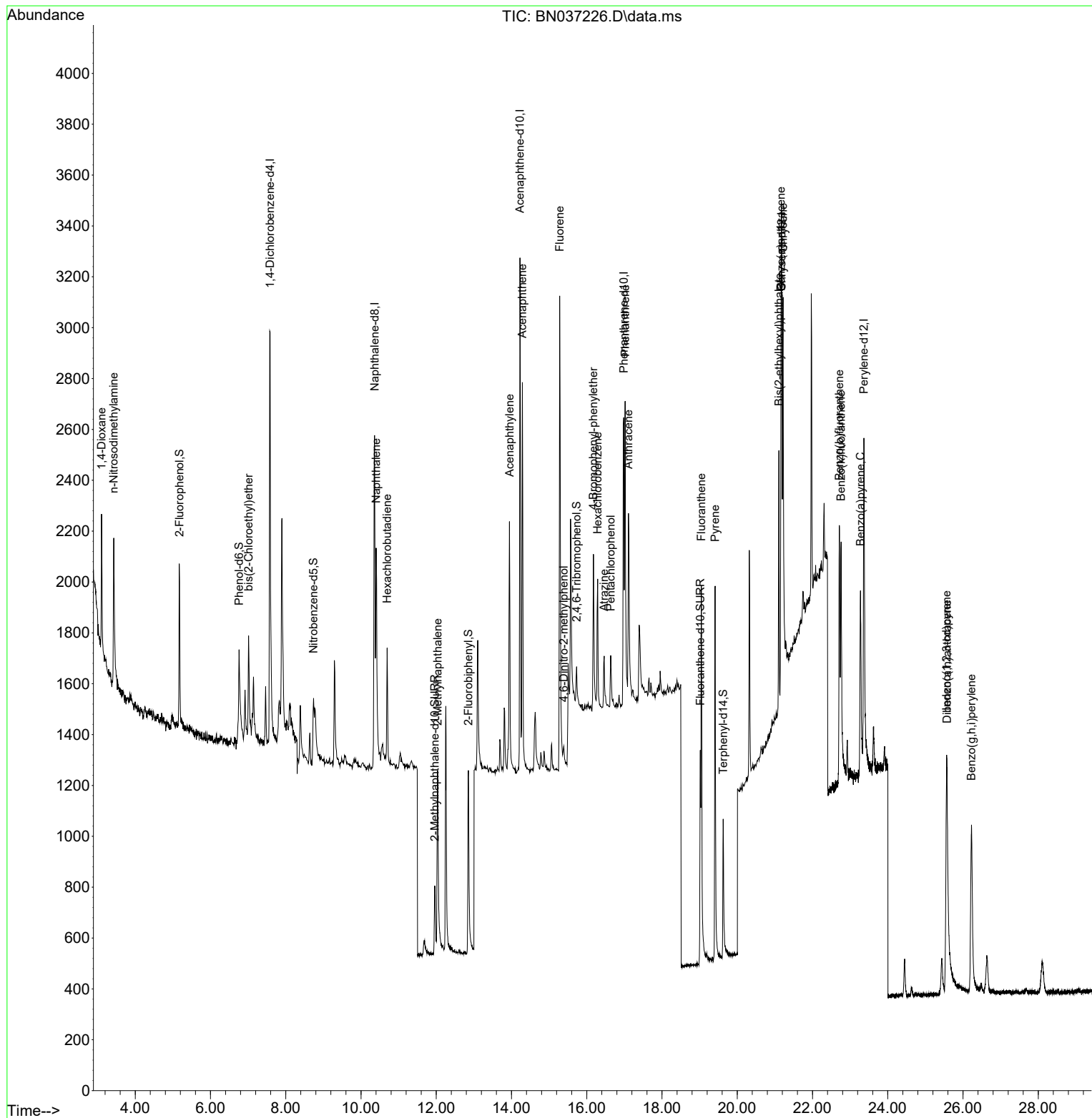
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	914	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2268	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1246	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2198	0.400	ng	# 0.01
29) Chrysene-d12	21.179	240	1908	0.400	ng	0.00
35) Perylene-d12	23.365	264	2012	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	469	0.209	ng	0.00
5) Phenol-d6	6.759	99	428	0.181	ng	0.00
8) Nitrobenzene-d5	8.739	82	345	0.154	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	571	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	91	0.176	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	953	0.182	ng	0.00
27) Fluoranthene-d10	19.017	212	1179	0.205	ng	0.00
31) Terphenyl-d14	19.625	244	806	0.187	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	312	0.249	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.429	42	620	0.217	ng	# 95
6) bis(2-Chloroethyl)ether	7.011	93	324	0.153	ng	95
9) Naphthalene	10.404	128	1307	0.199	ng	# 88
10) Hexachlorobutadiene	10.692	225	329	0.206	ng	# 94
12) 2-Methylnaphthalene	12.036	142	719	0.180	ng	92
16) Acenaphthylene	13.946	152	1165	0.191	ng	98
17) Acenaphthene	14.288	154	753	0.191	ng	98
18) Fluorene	15.282	166	940	0.186	ng	98
20) 4,6-Dinitro-2-methylph...	15.389	198	81	0.257	ng	# 60
21) 4-Bromophenyl-phenylether	16.177	248	273	0.191	ng	98
22) Hexachlorobenzene	16.289	284	350	0.211	ng	99
23) Atrazine	16.462	200	252	0.197	ng	# 78
24) Pentachlorophenol	16.636	266	153	0.188	ng	90
25) Phenanthrene	17.021	178	1346	0.193	ng	99
26) Anthracene	17.108	178	1186	0.186	ng	98
28) Fluoranthene	19.045	202	1657	0.203	ng	97
30) Pyrene	19.412	202	1660	0.185	ng	99
32) Benzo(a)anthracene	21.162	228	1149	0.178	ng	93
33) Chrysene	21.215	228	1643	0.205	ng	94
34) Bis(2-ethylhexyl)phtha...	21.108	149	1053	0.219	ng	98
36) Indeno(1,2,3-cd)pyrene	25.564	276	1512	0.186	ng	97
37) Benzo(b)fluoranthene	22.713	252	1296	0.176	ng	# 85
38) Benzo(k)fluoranthene	22.757	252	1512	0.179	ng	# 81
39) Benzo(a)pyrene	23.275	252	1215	0.184	ng	# 71
40) Dibenzo(a,h)anthracene	25.576	278	1109	0.181	ng	# 76
41) Benzo(g,h,i)perylene	26.225	276	1469	0.195	ng	# 88

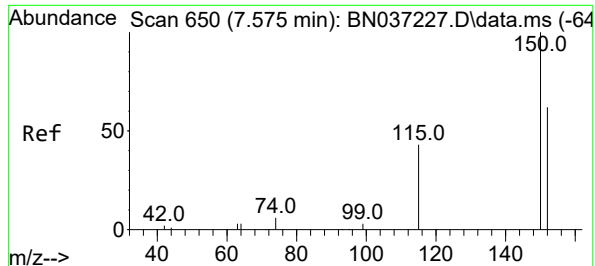
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037226.D
Acq On : 13 Jun 2025 14:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

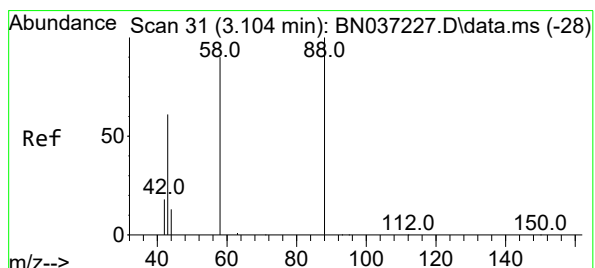
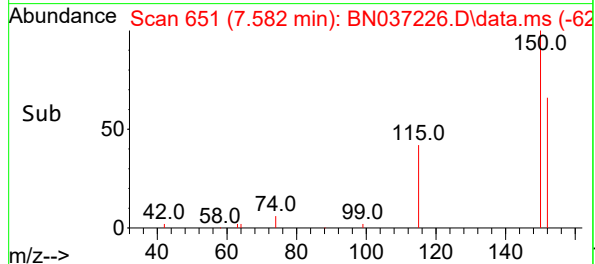
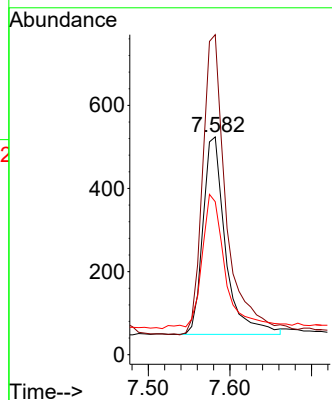
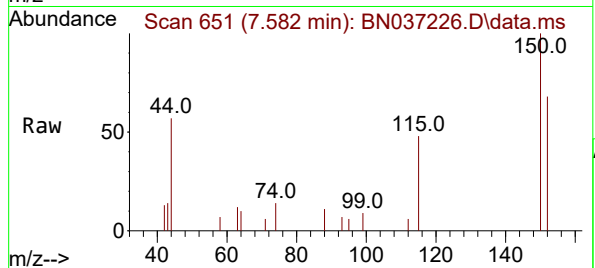




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

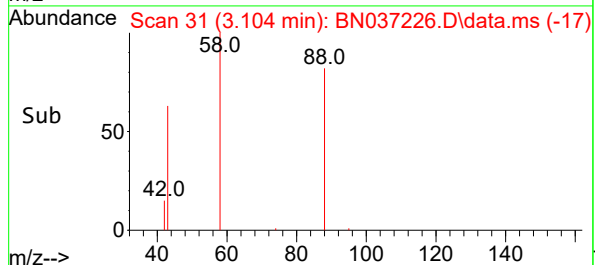
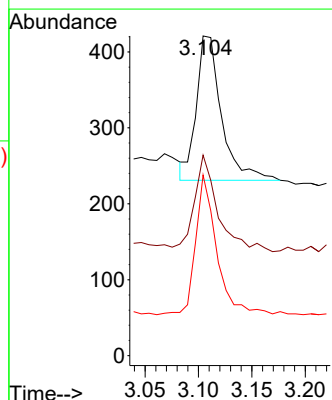
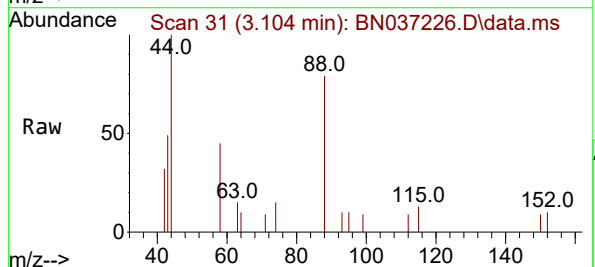
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

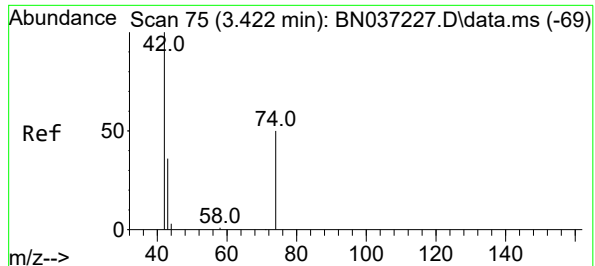
Tgt Ion:152 Resp: 914
Ion Ratio Lower Upper
152 100
150 146.9 125.2 187.8
115 70.2 58.4 87.6



#2
1,4-Dioxane
Concen: 0.249 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 88 Resp: 312
Ion Ratio Lower Upper
88 100
43 63.1 52.6 79.0
58 80.8 73.5 110.3

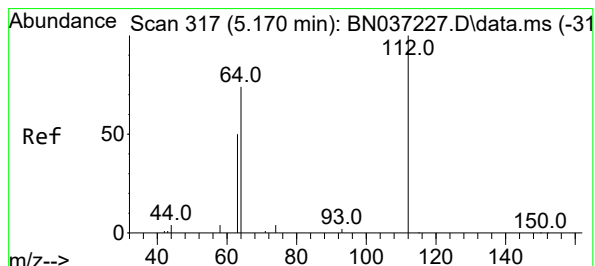
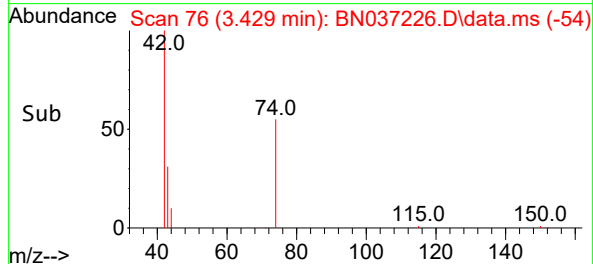
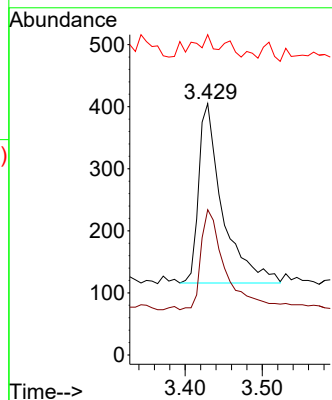
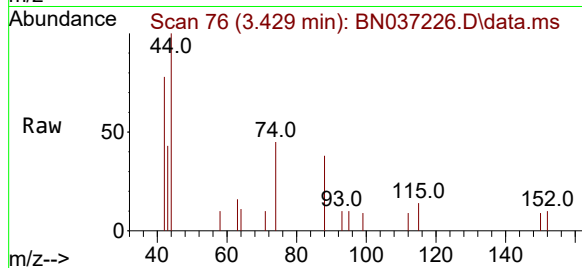




#3
n-Nitrosodimethylamine
Concen: 0.217 ng
RT: 3.429 min Scan# 70
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

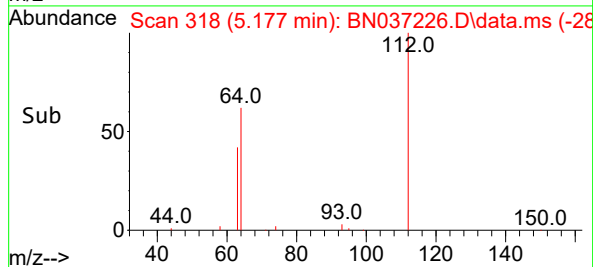
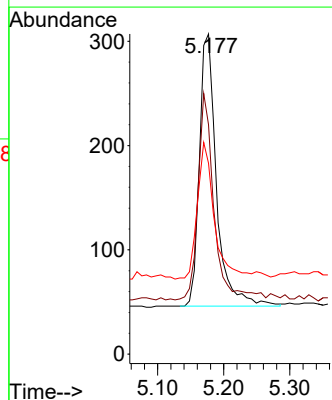
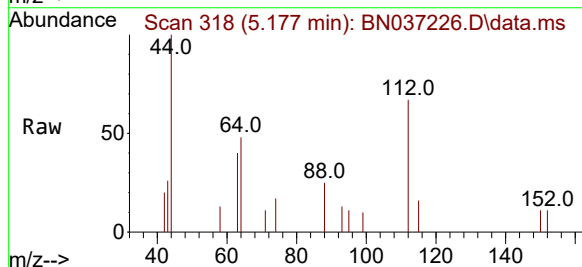
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

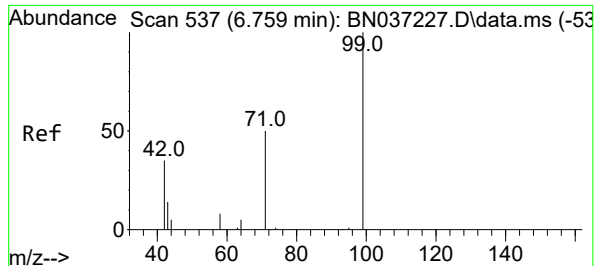
Tgt Ion: 42 Resp: 620
Ion Ratio Lower Upper
42 100
74 58.5 44.6 66.8
44 0.0 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.209 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 112 Resp: 469
Ion Ratio Lower Upper
112 100
64 71.4 57.2 85.8
63 49.9 39.8 59.6

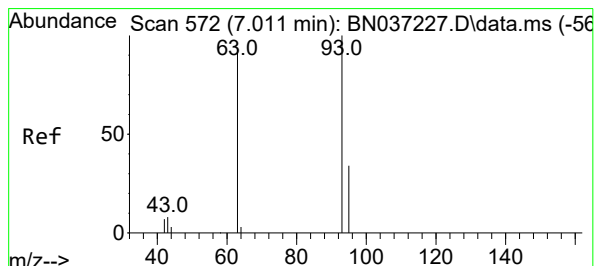
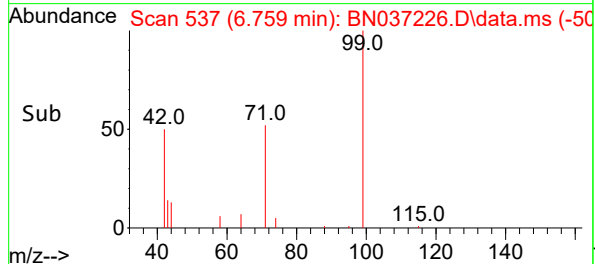
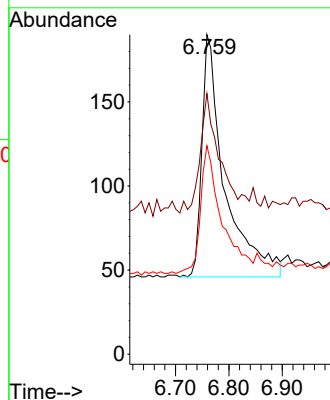
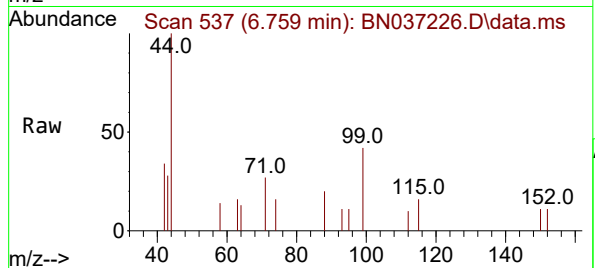




#5
Phenol-d6
Concen: 0.181 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

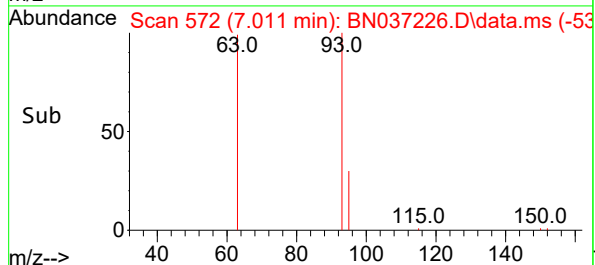
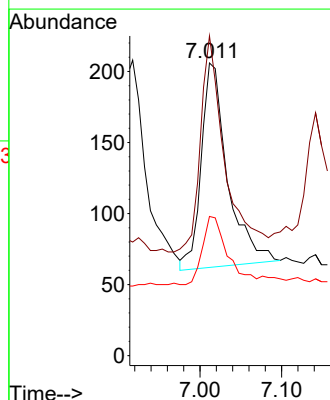
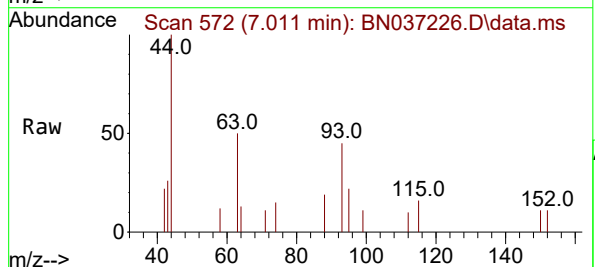
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

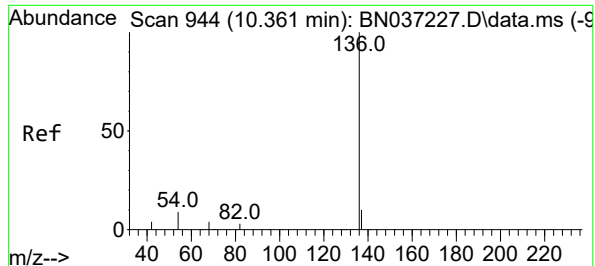
Tgt Ion: 99 Resp: 428
Ion Ratio Lower Upper
99 100
42 42.8 36.2 54.4
71 48.6 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.153 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 93 Resp: 324
Ion Ratio Lower Upper
93 100
63 98.1 75.2 112.8
95 31.5 28.3 42.5

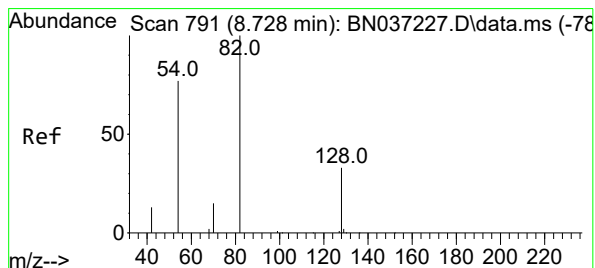
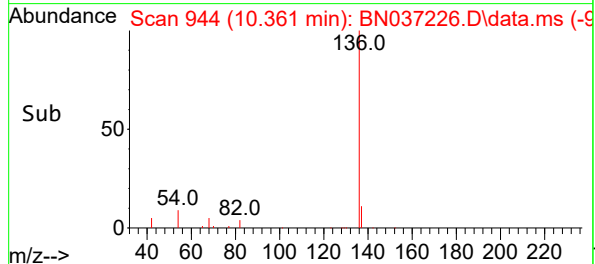
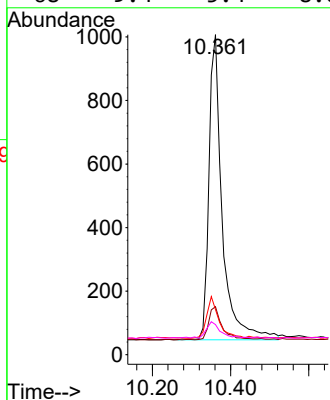
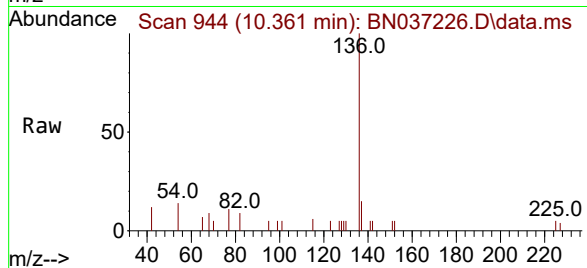




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

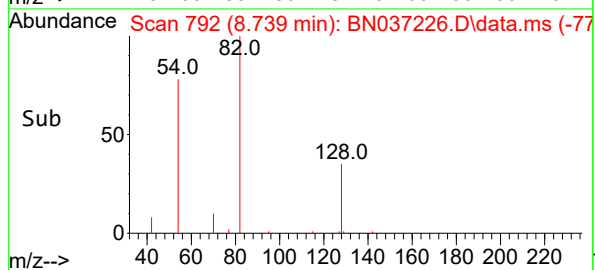
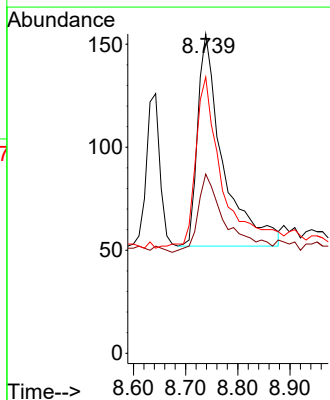
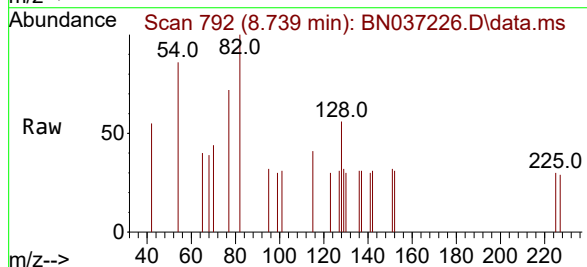
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

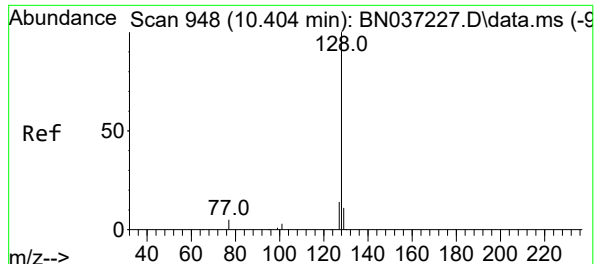
Tgt Ion:	136	Resp:	2268
Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	14.1	9.2	13.8#
68	9.4	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.154 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:	82	Resp:	345
Ion	Ratio	Lower	Upper
82	100		
128	56.1	31.2	46.8#
54	86.5	63.3	94.9

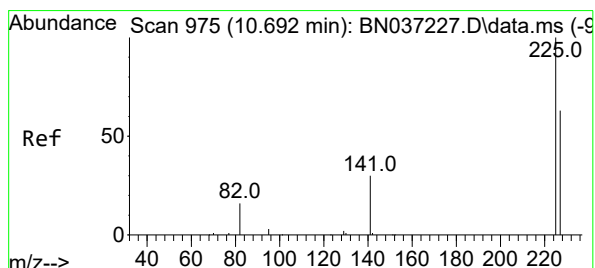
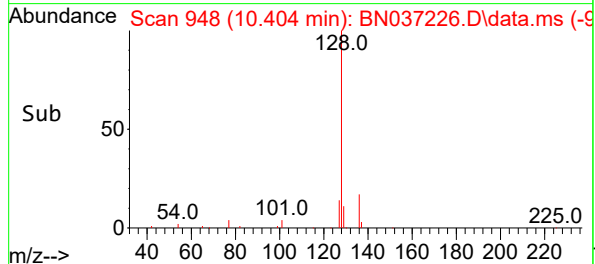
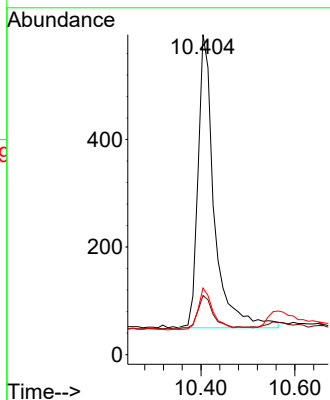
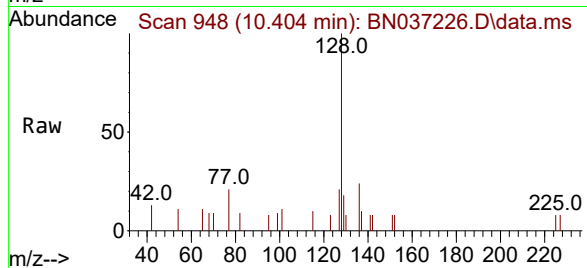




#9
Naphthalene
Concen: 0.199 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

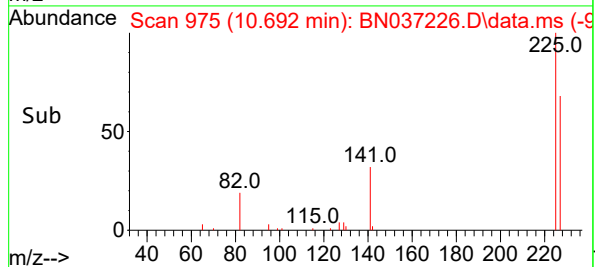
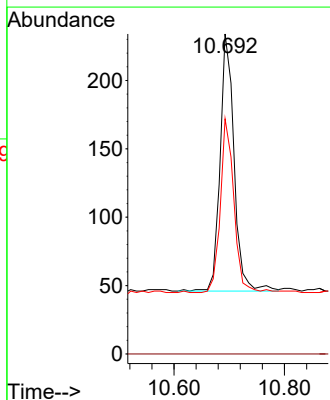
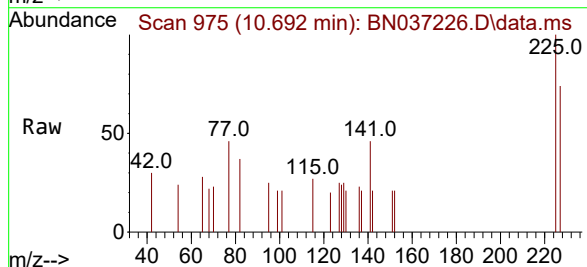
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

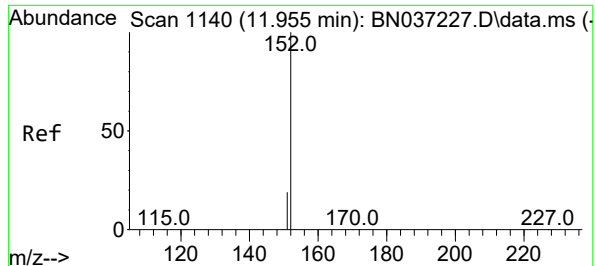
Tgt Ion:128 Resp: 1307
Ion Ratio Lower Upper
128 100
129 18.5 10.7 16.1#
127 20.8 12.6 19.0#



#10
Hexachlorobutadiene
Concen: 0.206 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:225 Resp: 329
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.3 49.2 73.8





#11

2-Methylnaphthalene-d10

Concen: 0.188 ng

RT: 11.960 min Scan# 1141

Delta R.T. 0.005 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

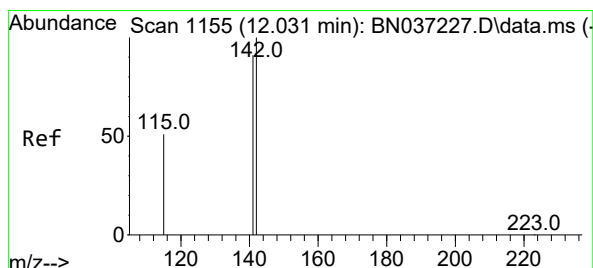
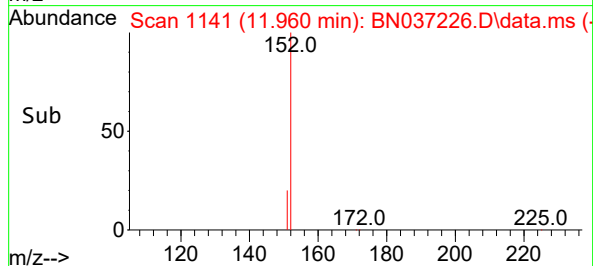
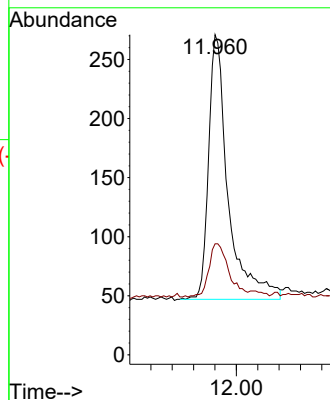
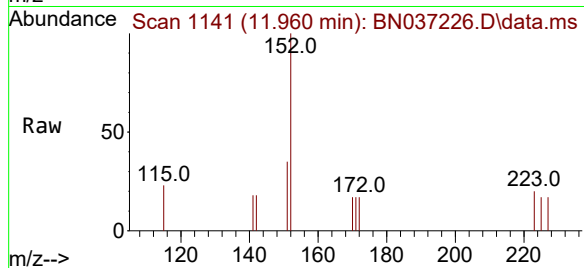
SSTDICC0.2

Tgt Ion:152 Resp: 571

Ion Ratio Lower Upper

152 100

151 20.5 17.9 26.9



#12

2-Methylnaphthalene

Concen: 0.180 ng

RT: 12.036 min Scan# 1156

Delta R.T. 0.005 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

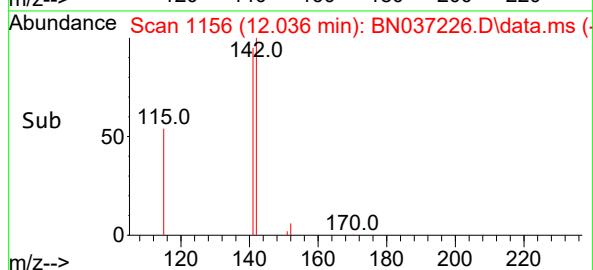
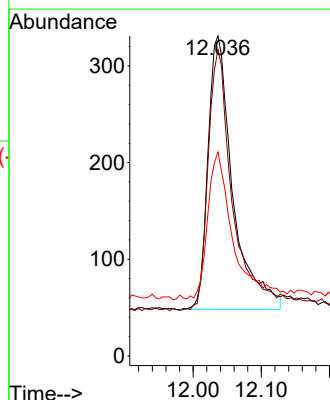
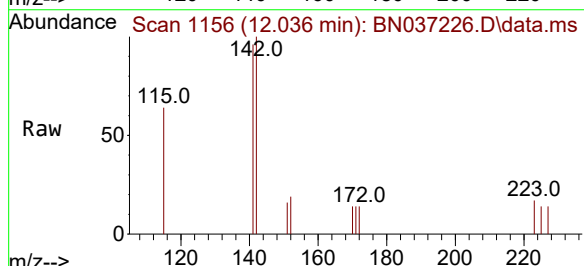
Tgt Ion:142 Resp: 719

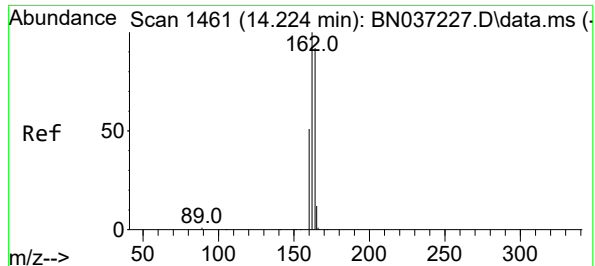
Ion Ratio Lower Upper

142 100

141 95.8 73.0 109.6

115 63.7 43.3 64.9

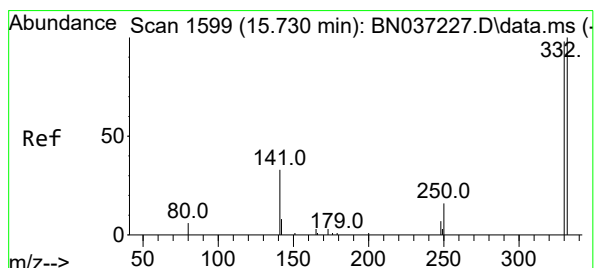
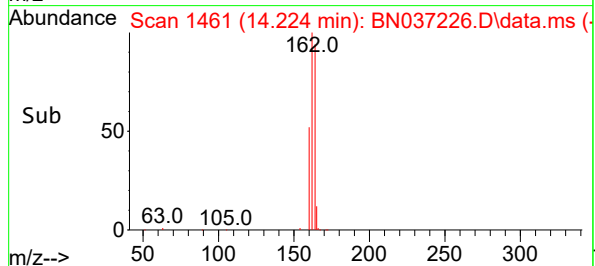
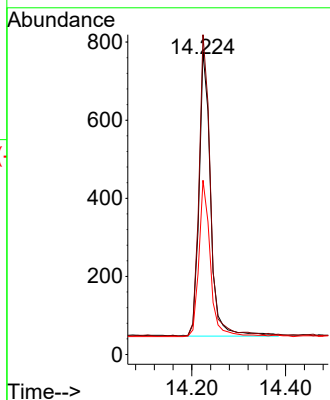
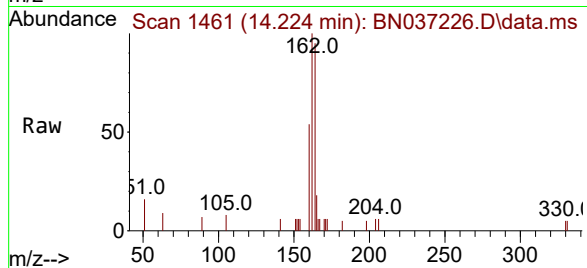




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

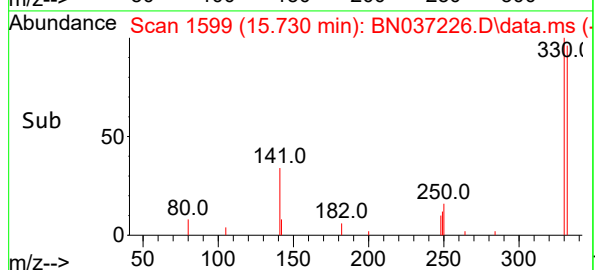
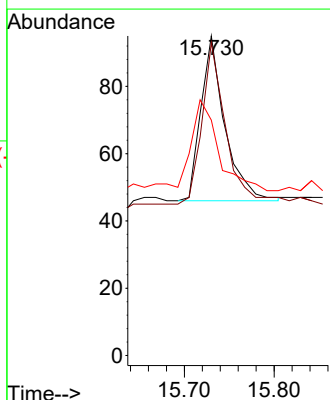
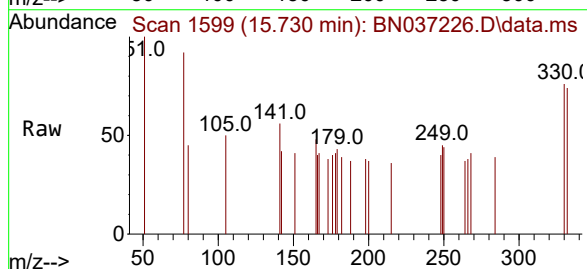
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

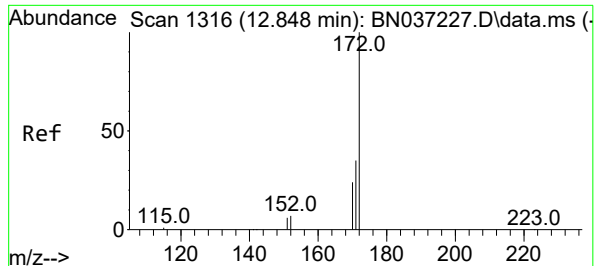
Tgt Ion:164 Resp: 1246
Ion Ratio Lower Upper
164 100
162 105.5 86.7 130.1
160 57.5 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.176 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:330 Resp: 91
Ion Ratio Lower Upper
330 100
332 101.1 74.9 112.3
141 62.6 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.182 ng

RT: 12.853 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

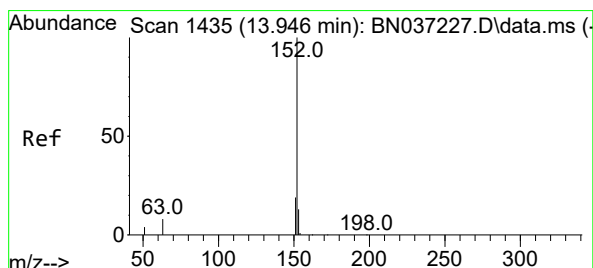
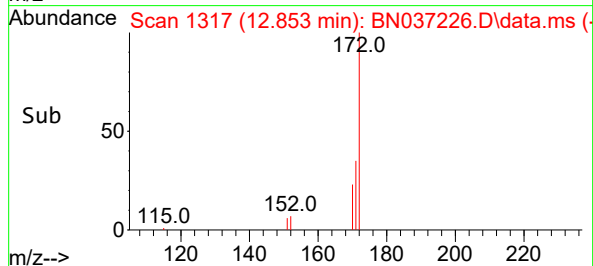
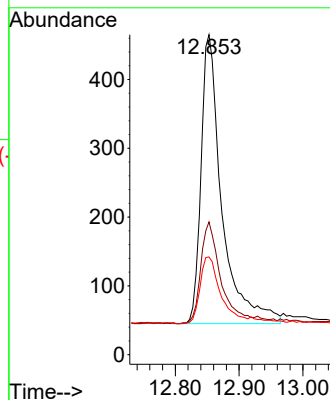
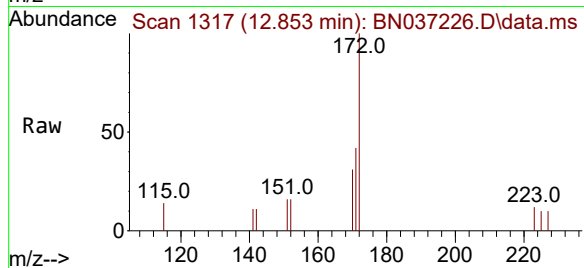
Tgt Ion:172 Resp: 953

Ion Ratio Lower Upper

172 100

171 41.5 29.8 44.8

170 30.5 21.1 31.7



#16

Acenaphthylene

Concen: 0.191 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

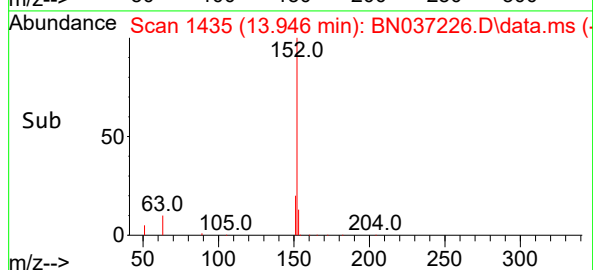
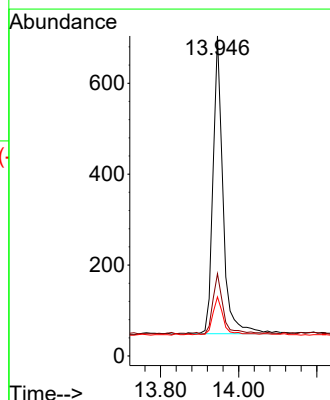
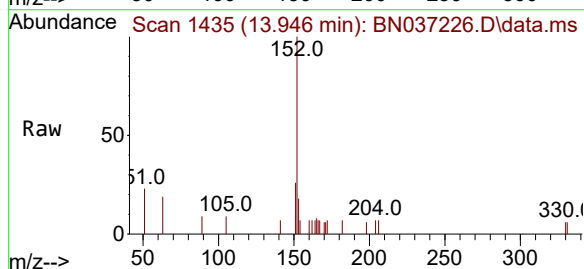
Tgt Ion:152 Resp: 1165

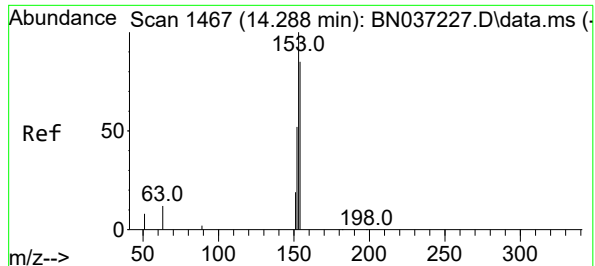
Ion Ratio Lower Upper

152 100

151 20.6 15.7 23.5

153 13.7 10.7 16.1





#17

Acenaphthene

Concen: 0.191 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

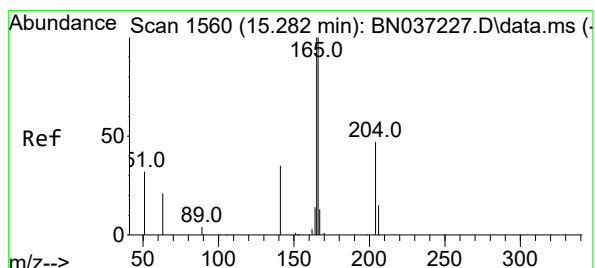
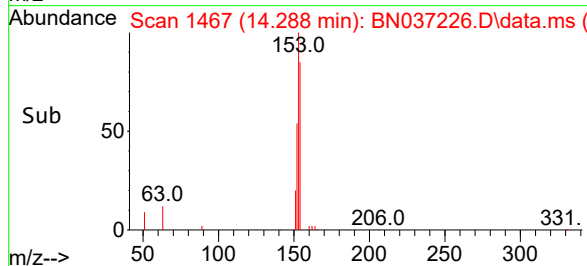
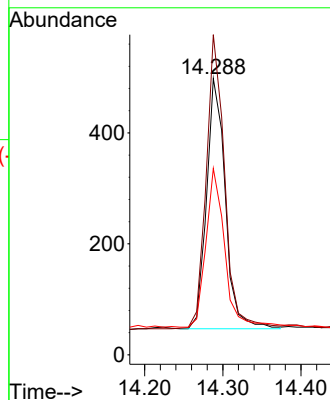
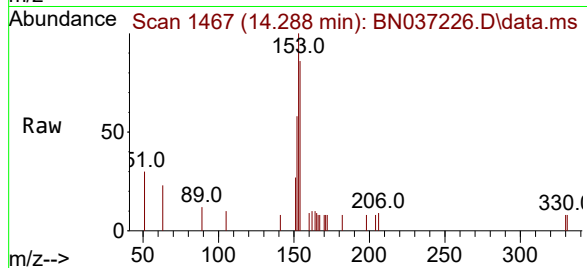
Tgt Ion:154 Resp: 753

Ion Ratio Lower Upper

154 100

153 117.3 94.6 141.8

152 65.2 49.6 74.4



#18

Fluorene

Concen: 0.186 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

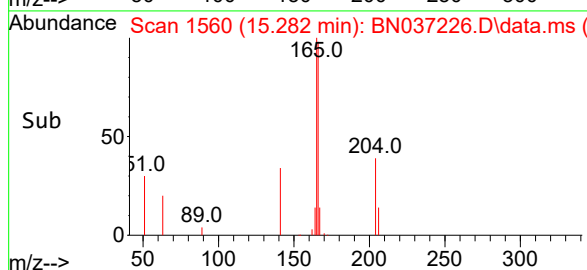
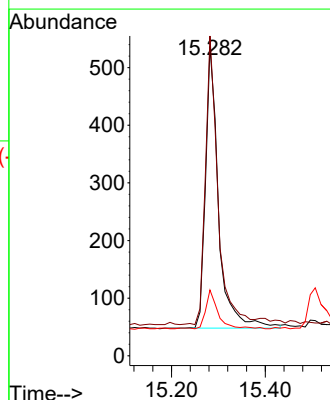
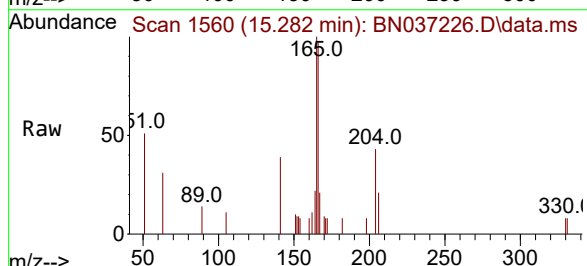
Tgt Ion:166 Resp: 940

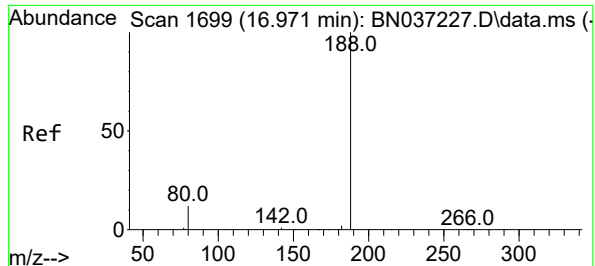
Ion Ratio Lower Upper

166 100

165 97.9 79.8 119.6

167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. 0.012 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

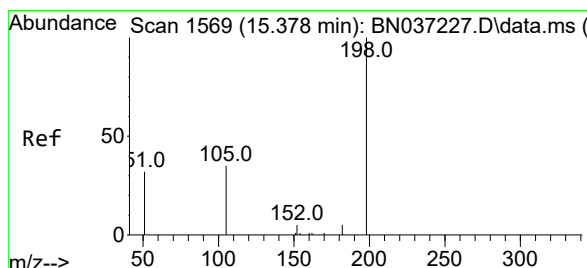
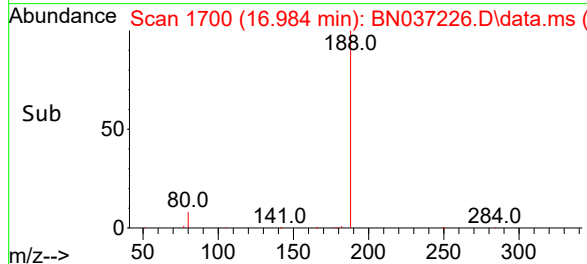
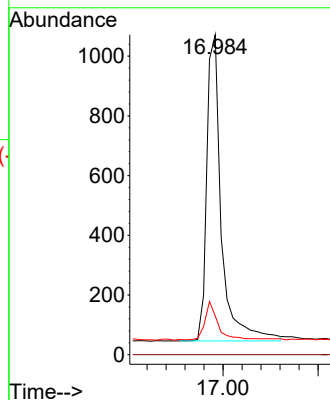
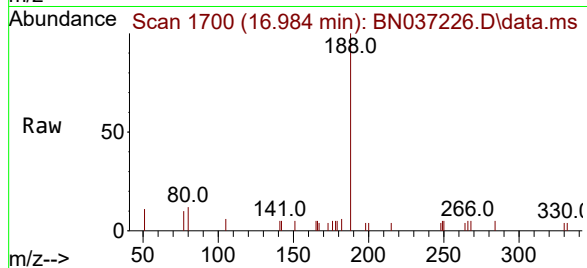
Tgt Ion:188 Resp: 2198

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.1 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.257 ng

RT: 15.389 min Scan# 1570

Delta R.T. 0.011 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

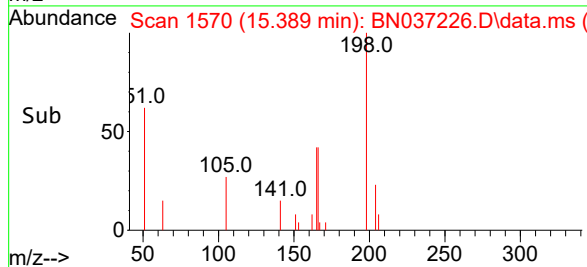
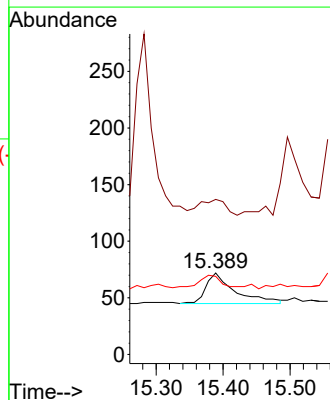
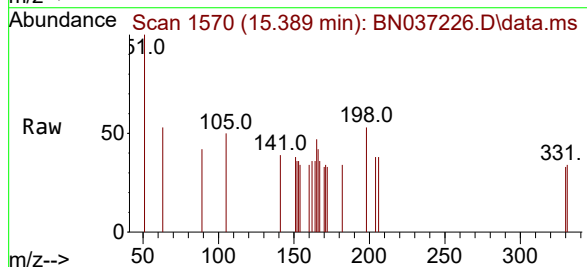
Tgt Ion:198 Resp: 81

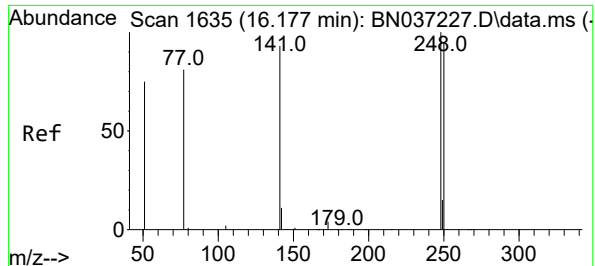
Ion Ratio Lower Upper

198 100

51 190.3 111.2 166.8#

105 95.8 54.0 81.0#

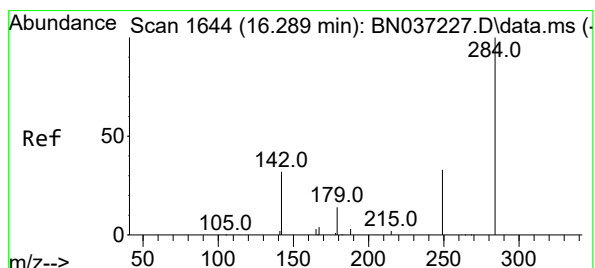
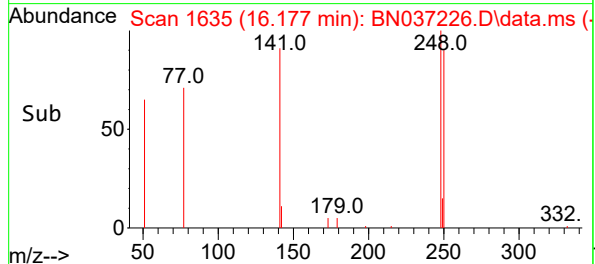
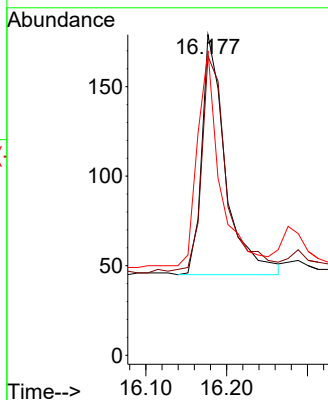
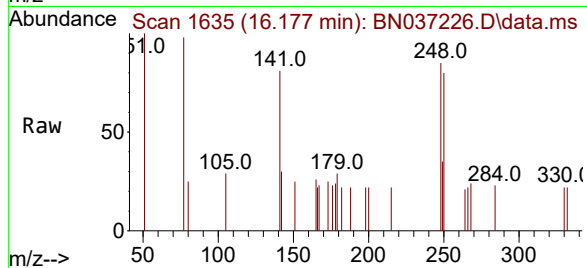




#21
4-Bromophenyl-phenylether
Concen: 0.191 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

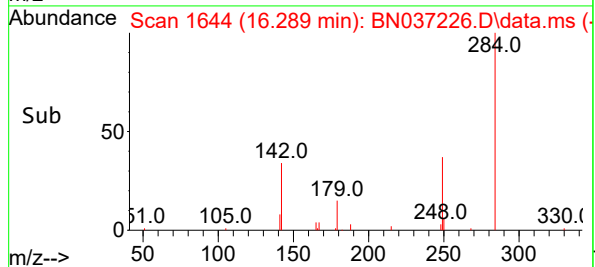
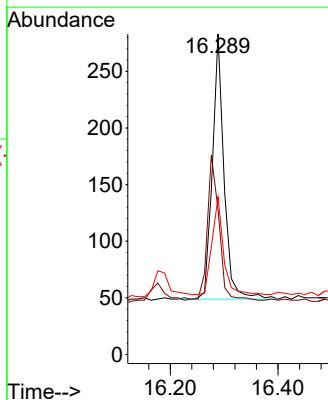
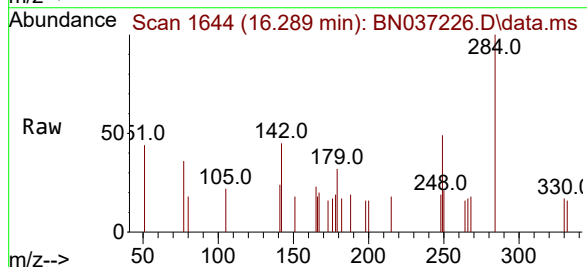
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

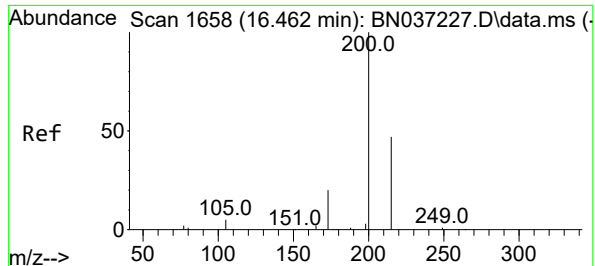
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.8	115.2
141	95.0	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.211 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion	Ratio	Lower	Upper
284	100		
142	55.1	43.8	65.6
249	36.9	28.4	42.6

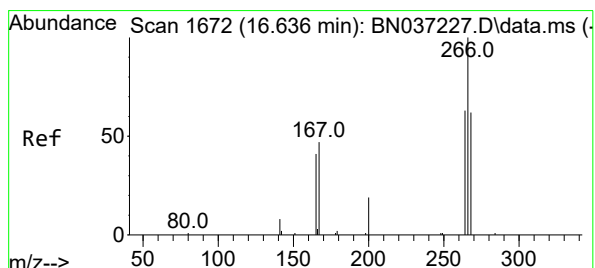
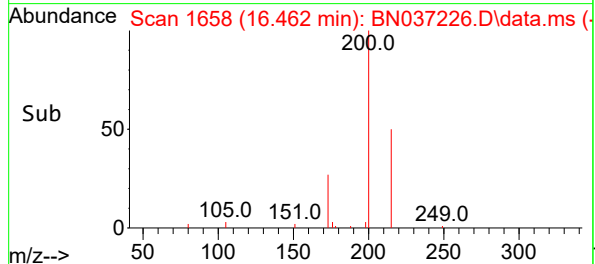
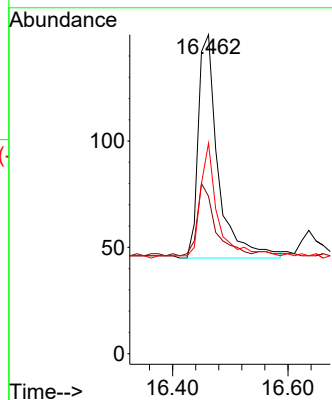
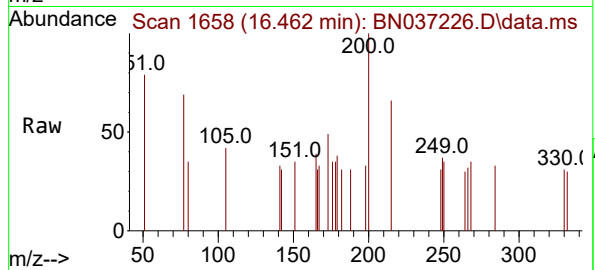




#23
Atrazine
Concen: 0.197 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

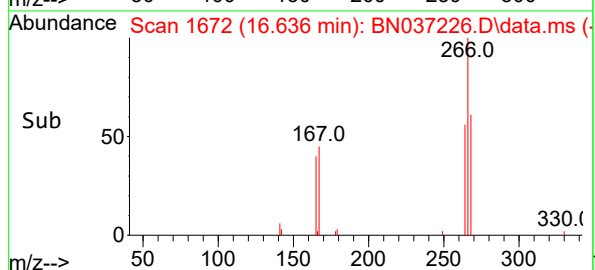
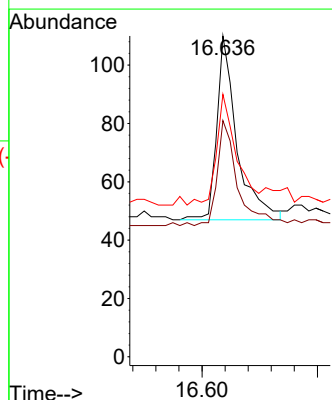
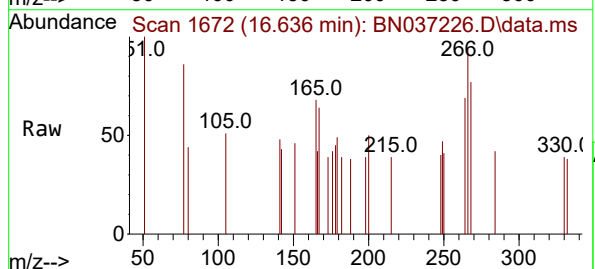
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

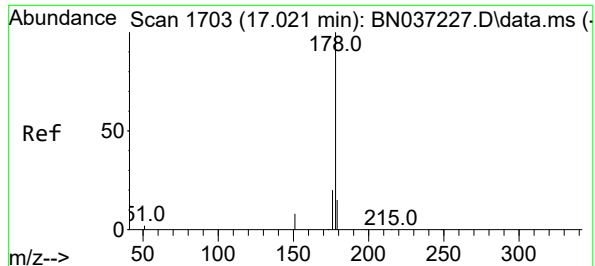
Tgt Ion:200 Resp: 252
Ion Ratio Lower Upper
200 100
173 49.3 25.1 37.7#
215 66.0 43.7 65.5#



#24
Pentachlorophenol
Concen: 0.188 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:266 Resp: 153
Ion Ratio Lower Upper
266 100
264 58.2 49.2 73.8
268 54.2 53.4 80.2





#25

Phenanthrene

Concen: 0.193 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

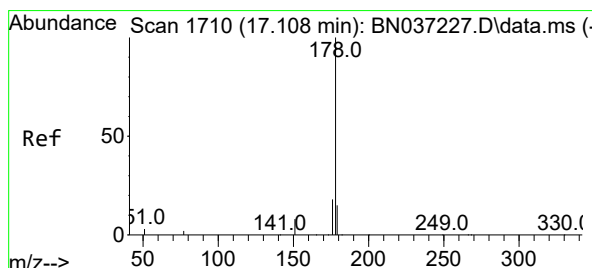
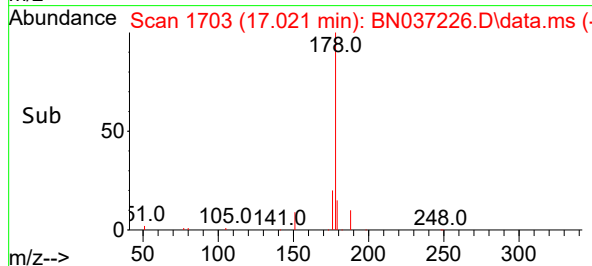
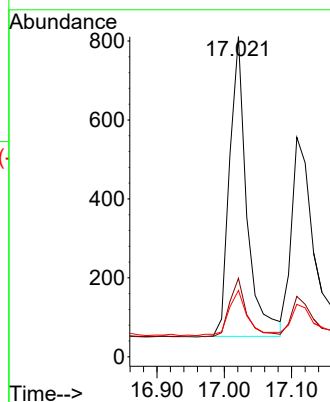
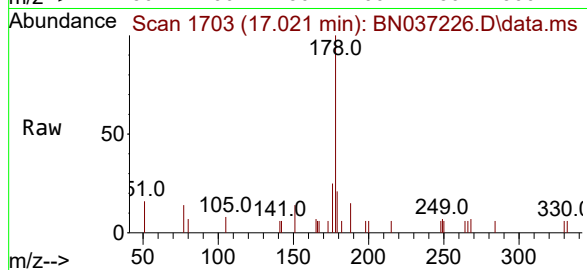
Tgt Ion:178 Resp: 1346

Ion Ratio Lower Upper

178 100

176 20.1 16.3 24.5

179 15.9 12.6 18.8



#26

Anthracene

Concen: 0.186 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

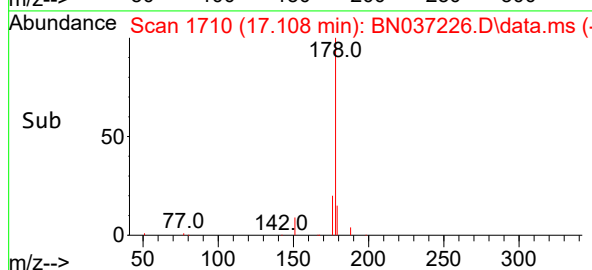
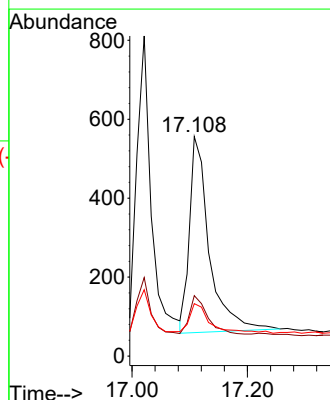
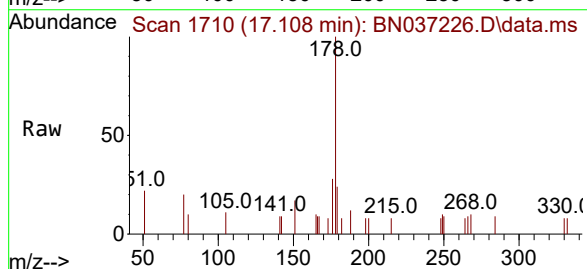
Tgt Ion:178 Resp: 1186

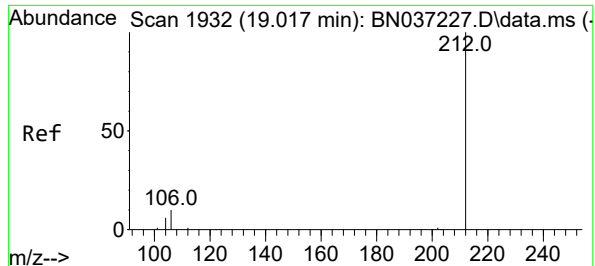
Ion Ratio Lower Upper

178 100

176 18.0 15.1 22.7

179 16.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.205 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

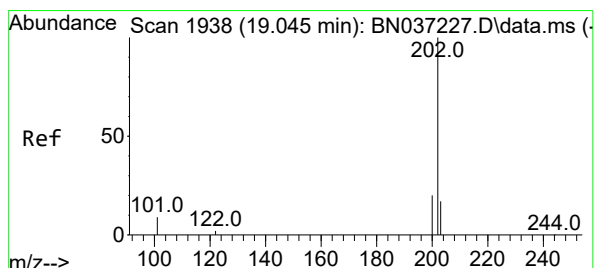
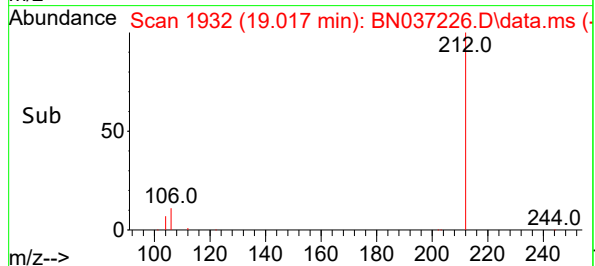
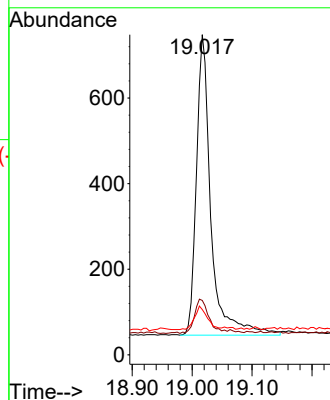
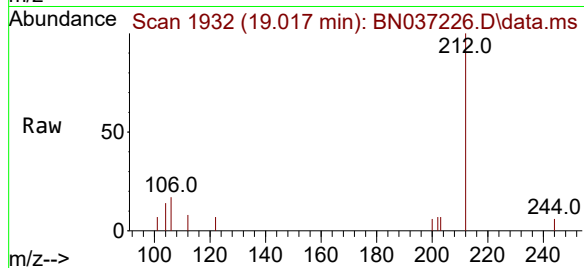
Tgt Ion:212 Resp: 1179

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 6.9 5.7 8.5



#28

Fluoranthene

Concen: 0.203 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

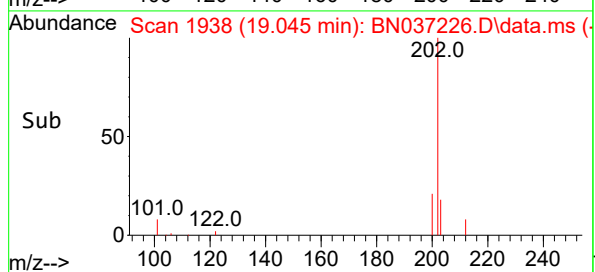
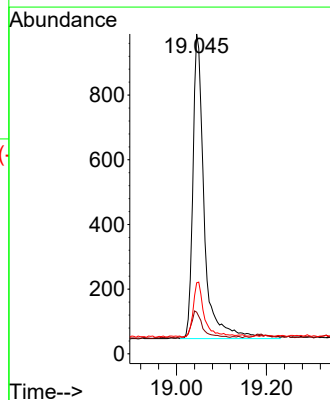
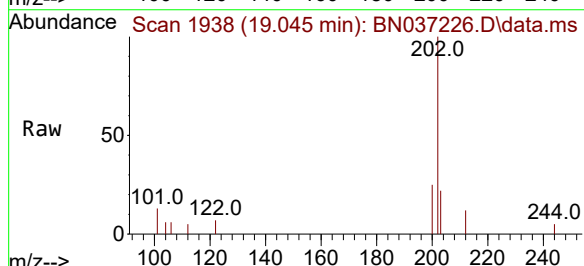
Tgt Ion:202 Resp: 1657

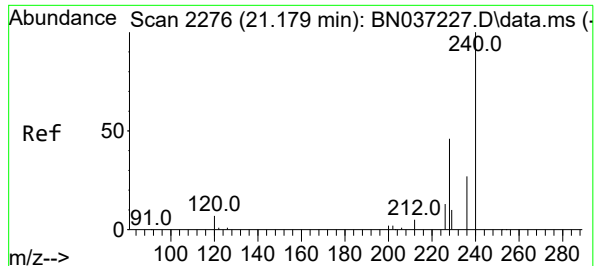
Ion Ratio Lower Upper

202 100

101 9.1 7.1 10.7

203 18.0 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

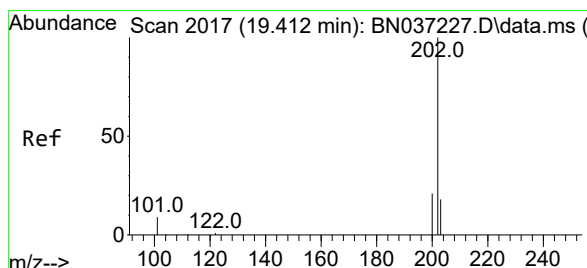
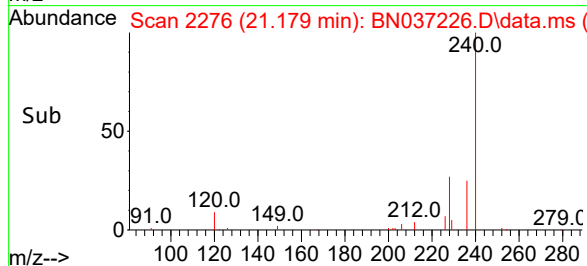
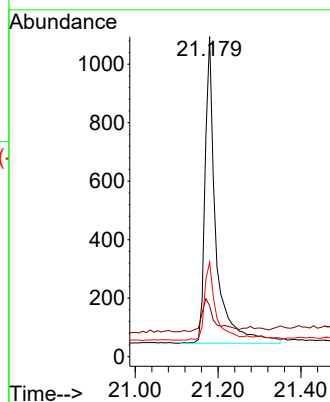
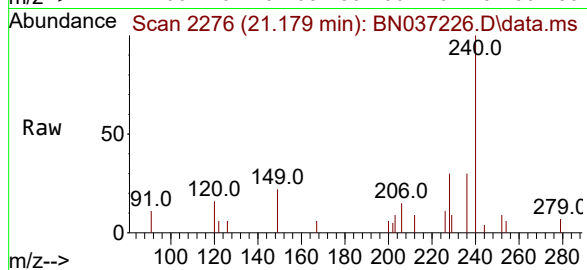
Tgt Ion:240 Resp: 1908

Ion Ratio Lower Upper

240 100

120 15.9 11.3 16.9

236 29.5 24.4 36.6



#30

Pyrene

Concen: 0.185 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

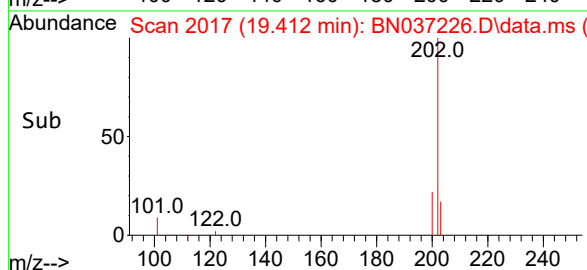
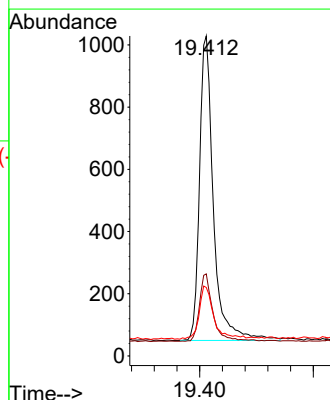
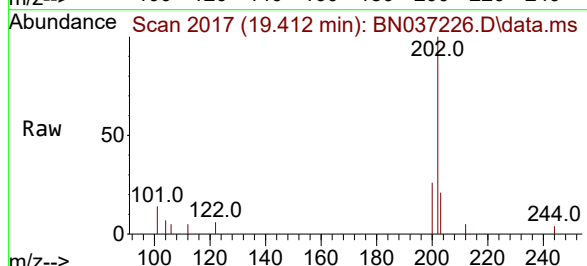
Tgt Ion:202 Resp: 1660

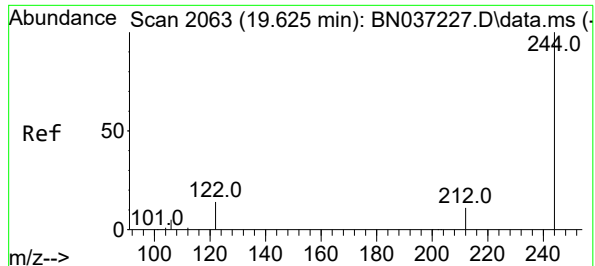
Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

203 18.2 14.3 21.5

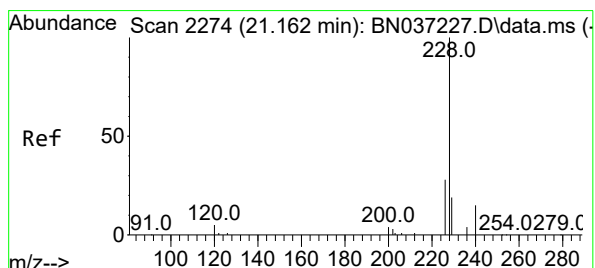
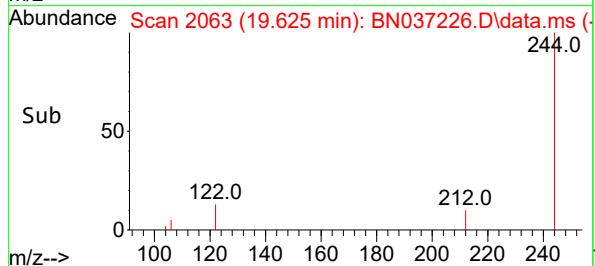
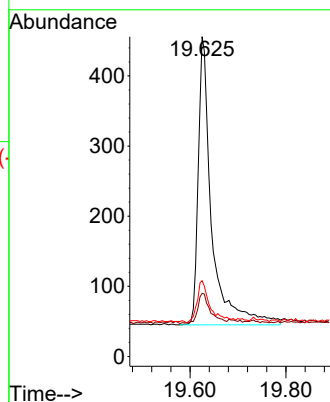
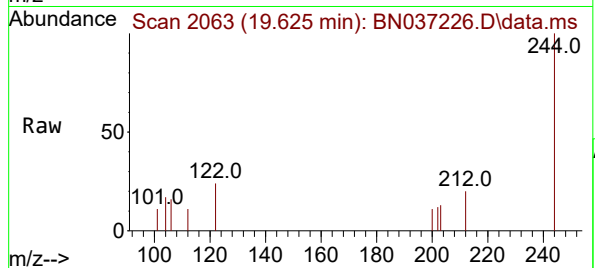




#31
Terphenyl-d14
Concen: 0.187 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

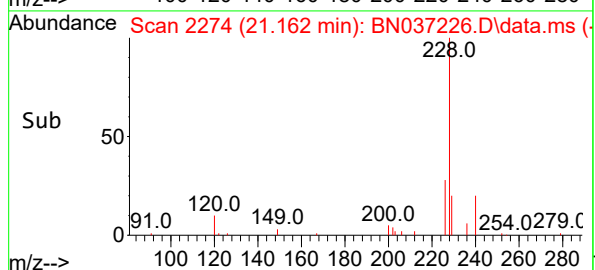
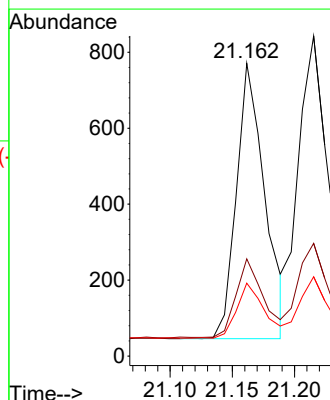
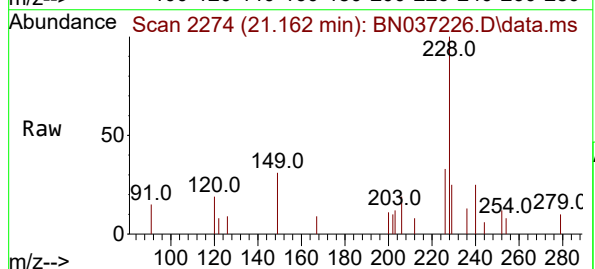
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

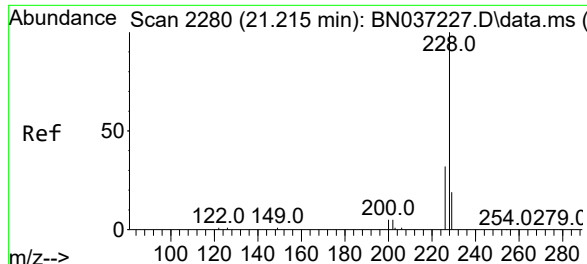
Tgt Ion:244 Resp: 806
Ion Ratio Lower Upper
244 100
212 19.7 12.2 18.2#
122 23.7 14.3 21.5#



#32
Benzo(a)anthracene
Concen: 0.178 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:228 Resp: 1149
Ion Ratio Lower Upper
228 100
226 33.2 23.8 35.8
229 24.9 17.0 25.4





#33

Chrysene

Concen: 0.205 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

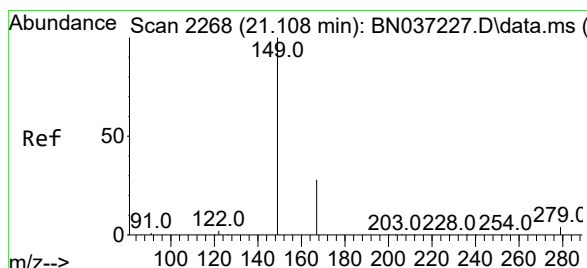
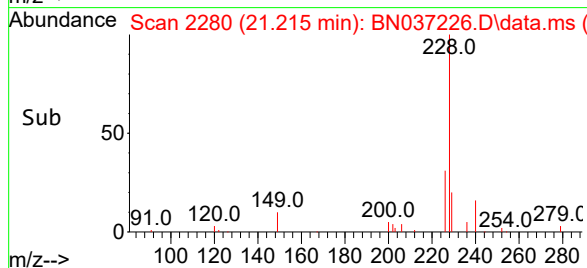
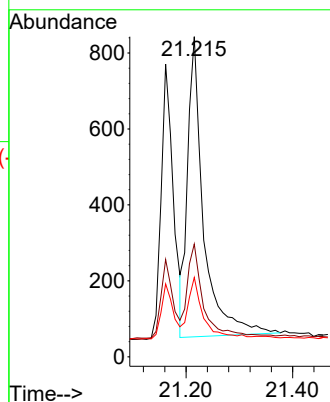
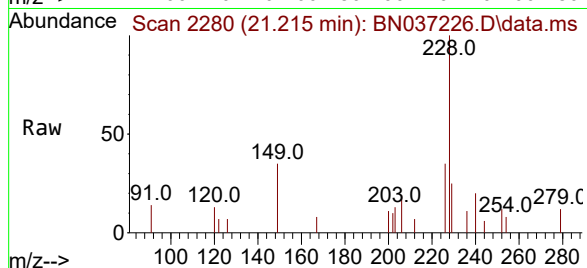
Tgt Ion:228 Resp: 1643

Ion Ratio Lower Upper

228 100

226 35.2 25.8 38.6

229 24.8 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.219 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

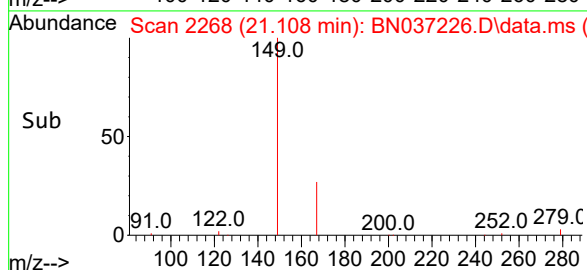
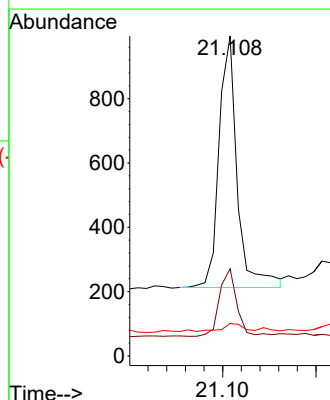
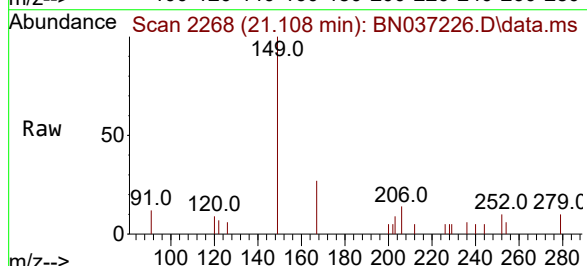
Tgt Ion:149 Resp: 1053

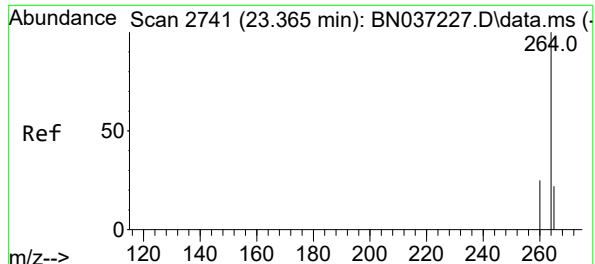
Ion Ratio Lower Upper

149 100

167 25.7 21.3 31.9

279 3.6 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

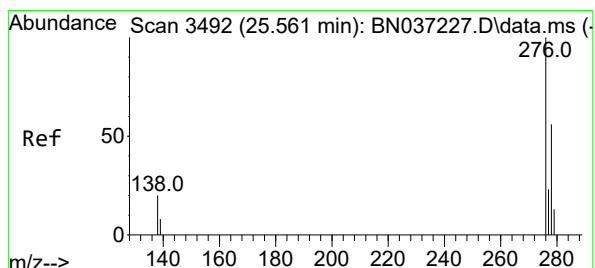
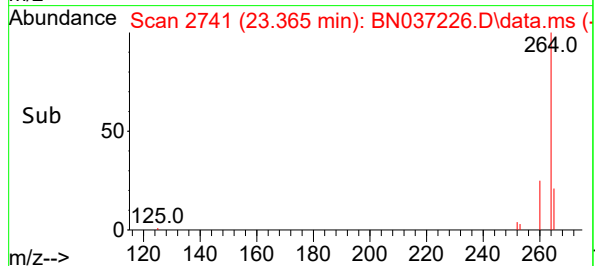
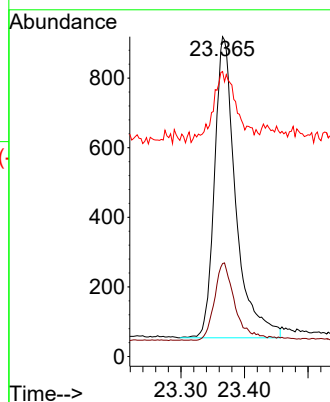
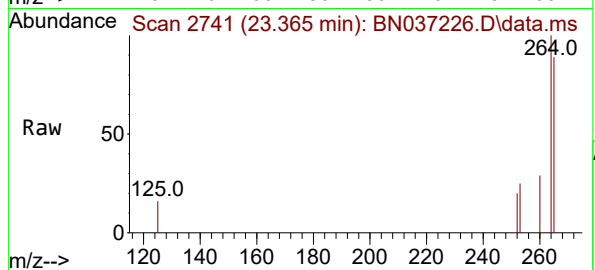
Tgt Ion:264 Resp: 2012

Ion Ratio Lower Upper

264 100

260 29.1 22.8 34.2

265 89.1 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.186 ng

RT: 25.564 min Scan# 3493

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

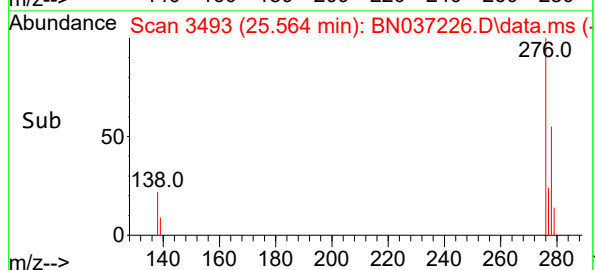
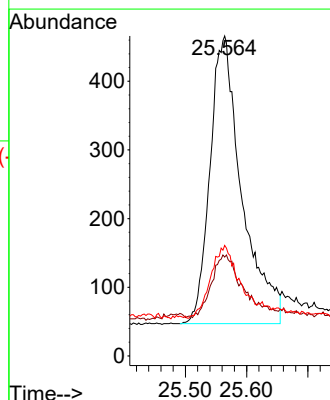
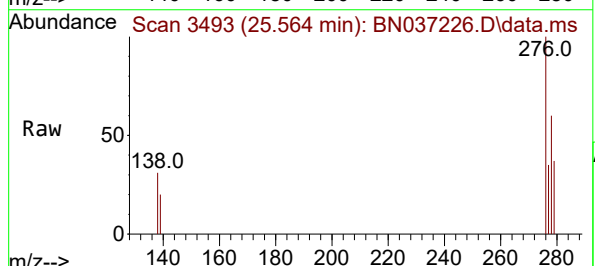
Tgt Ion:276 Resp: 1512

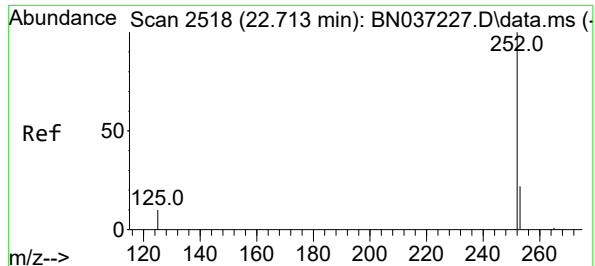
Ion Ratio Lower Upper

276 100

138 20.4 16.8 25.2

277 22.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.176 ng

RT: 22.713 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

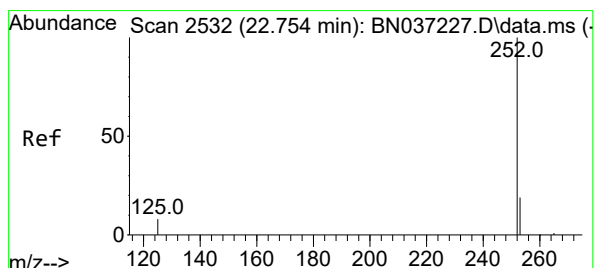
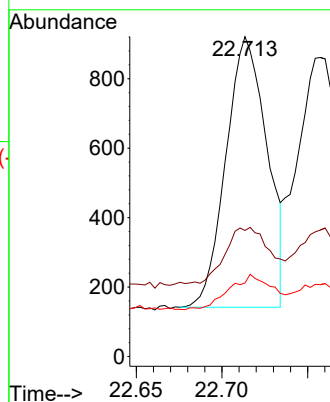
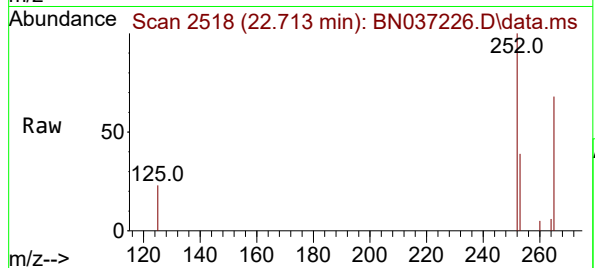
Tgt Ion:252 Resp: 1296

Ion Ratio Lower Upper

252 100

253 39.4 24.9 37.3#

125 23.0 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 0.179 ng

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

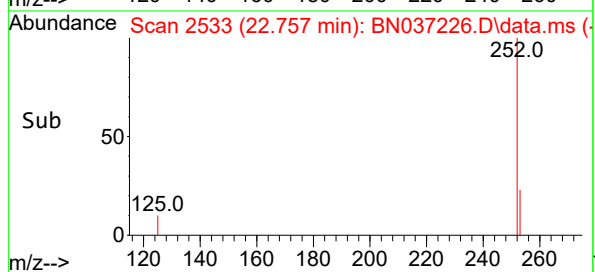
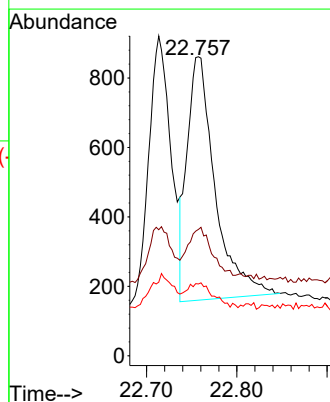
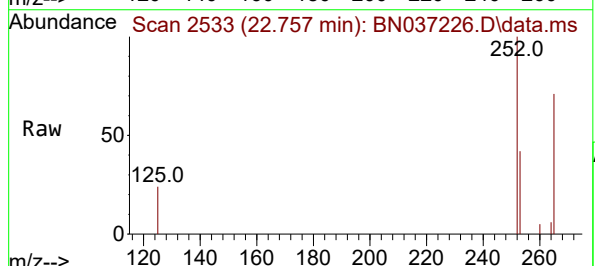
Tgt Ion:252 Resp: 1512

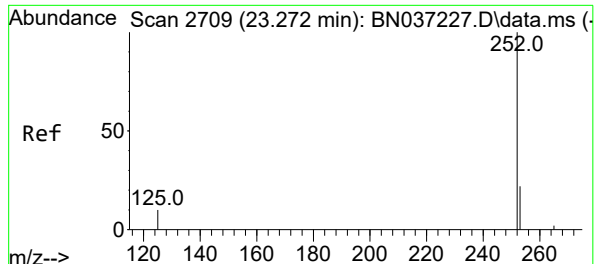
Ion Ratio Lower Upper

252 100

253 42.3 24.6 37.0#

125 24.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.184 ng

RT: 23.275 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

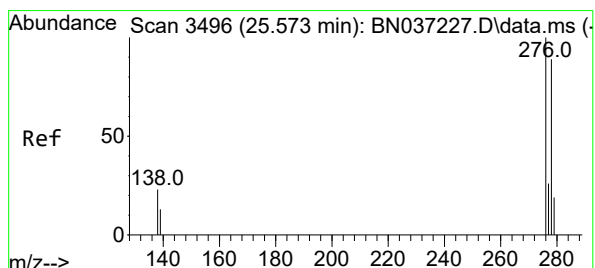
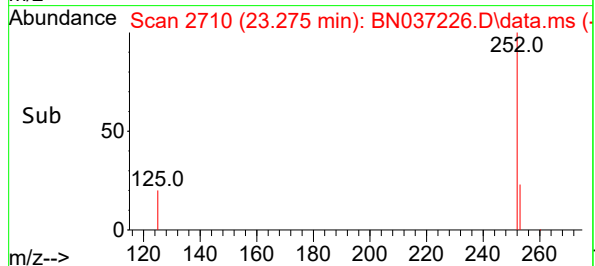
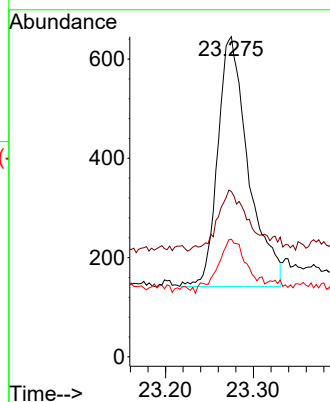
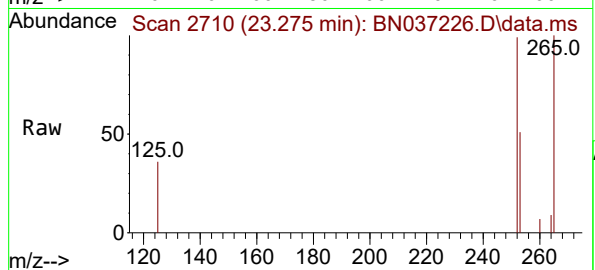
Tgt Ion:252 Resp: 1215

Ion Ratio Lower Upper

252 100

253 51.6 29.4 44.2#

125 36.7 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.181 ng

RT: 25.576 min Scan# 3497

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

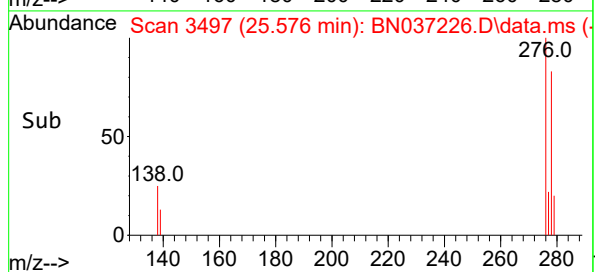
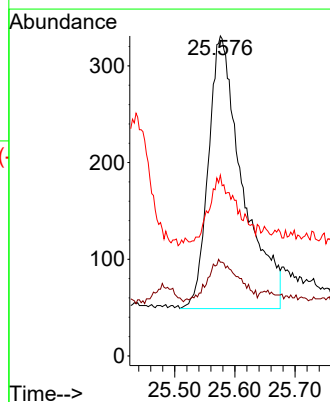
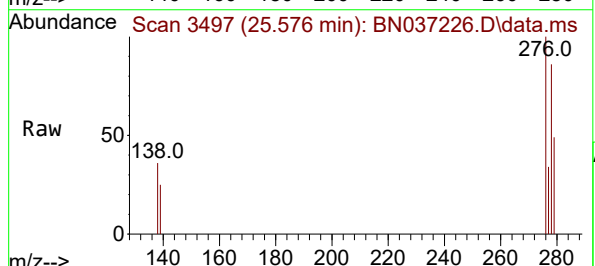
Tgt Ion:278 Resp: 1109

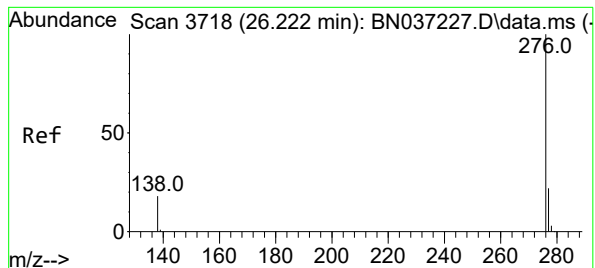
Ion Ratio Lower Upper

278 100

139 29.3 17.8 26.6#

279 56.5 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 26.225 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037226.D

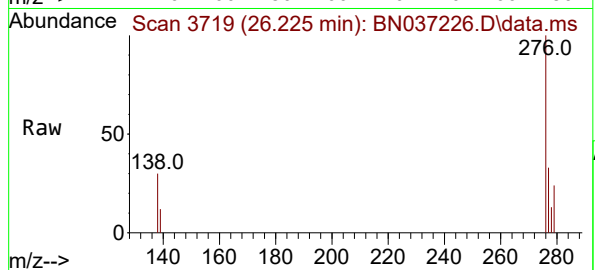
Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



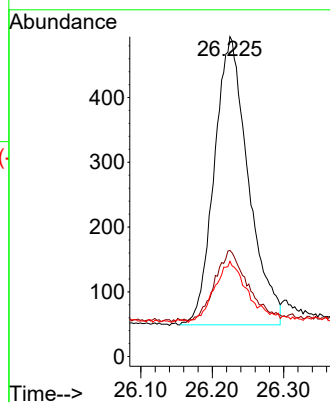
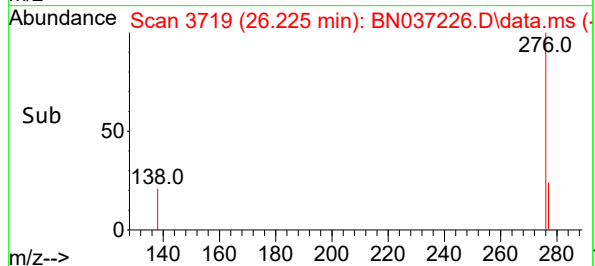
Tgt Ion:276 Resp: 1469

Ion Ratio Lower Upper

276 100

277 33.2 22.0 33.0#

138 29.8 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037227.D
 Acq On : 13 Jun 2025 14:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

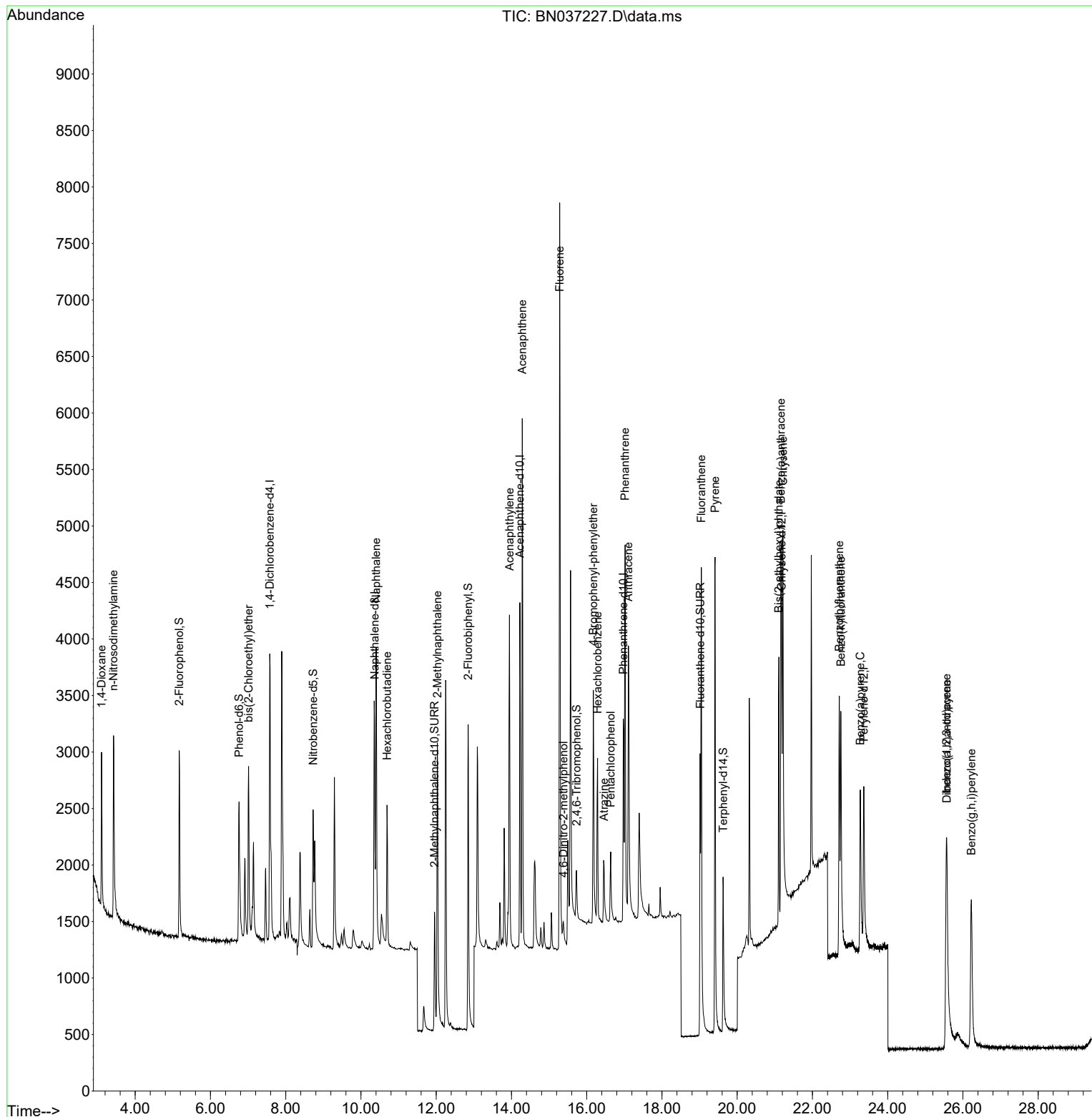
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1287	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	3210	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1738	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3195	0.400	ng	0.00
29) Chrysene-d12	21.179	240	2284	0.400	ng	0.00
35) Perylene-d12	23.365	264	2150	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1212	0.383	ng	0.00
5) Phenol-d6	6.759	99	1239	0.372	ng	0.00
8) Nitrobenzene-d5	8.728	82	1234	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1787	0.415	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	298	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2952	0.404	ng	0.00
27) Fluoranthene-d10	19.017	212	3364	0.402	ng	0.00
31) Terphenyl-d14	19.625	244	2160	0.418	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	676	0.383	ng	100
3) n-Nitrosodimethylamine	3.422	42	1644	0.409	ng	100
6) bis(2-Chloroethyl)ether	7.011	93	1120	0.375	ng	100
9) Naphthalene	10.404	128	3636	0.391	ng	100
10) Hexachlorobutadiene	10.692	225	968	0.428	ng	# 100
12) 2-Methylnaphthalene	12.031	142	2261	0.400	ng	100
16) Acenaphthylene	13.946	152	3250	0.382	ng	100
17) Acenaphthene	14.288	154	2155	0.392	ng	100
18) Fluorene	15.282	166	2768	0.392	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	211	0.368	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	780	0.375	ng	100
22) Hexachlorobenzene	16.289	284	994	0.412	ng	100
23) Atrazine	16.462	200	710	0.382	ng	100
24) Pentachlorophenol	16.636	266	397	0.336	ng	100
25) Phenanthrene	17.021	178	3790	0.374	ng	100
26) Anthracene	17.108	178	3450	0.372	ng	100
28) Fluoranthene	19.045	202	4510	0.380	ng	100
30) Pyrene	19.412	202	4482	0.417	ng	100
32) Benzo(a)anthracene	21.162	228	2798	0.363	ng	100
33) Chrysene	21.215	228	3871	0.403	ng	100
34) Bis(2-ethylhexyl)phtha...	21.108	149	2338	0.407	ng	100
36) Indeno(1,2,3-cd)pyrene	25.561	276	3239	0.374	ng	100
37) Benzo(b)fluoranthene	22.713	252	2958	0.376	ng	100
38) Benzo(k)fluoranthene	22.754	252	3501	0.388	ng	100
39) Benzo(a)pyrene	23.272	252	2653	0.375	ng	100
40) Dibenzo(a,h)anthracene	25.573	278	2256	0.345	ng	100
41) Benzo(g,h,i)perylene	26.222	276	3099	0.385	ng	100

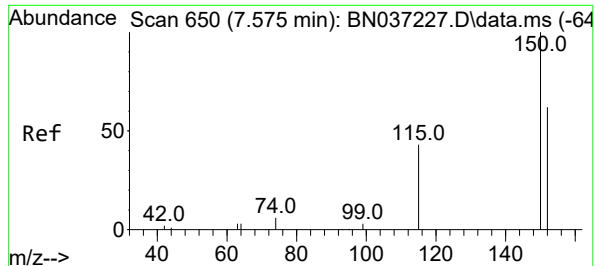
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037227.D
Acq On : 13 Jun 2025 14:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

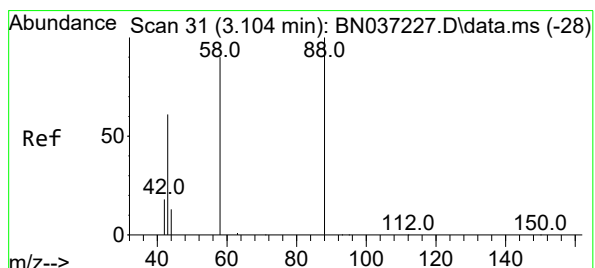
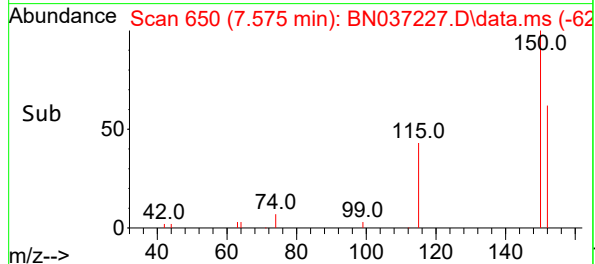
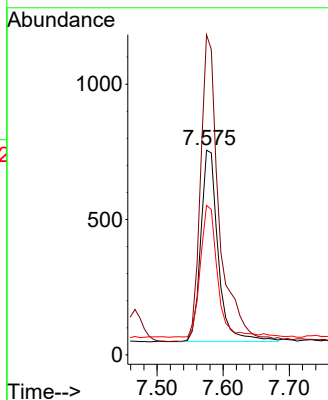
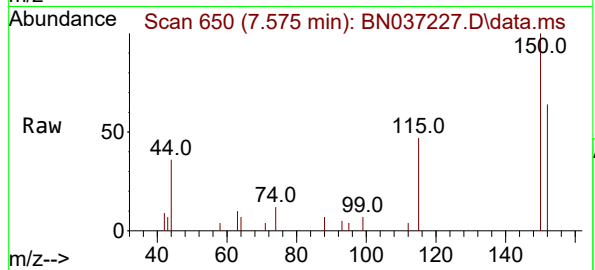




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

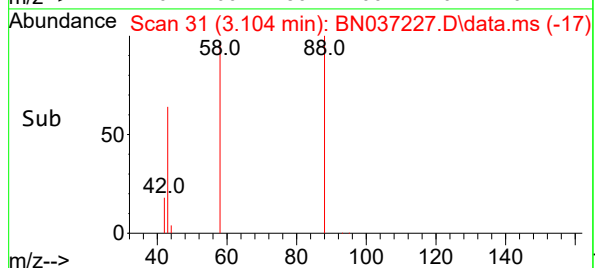
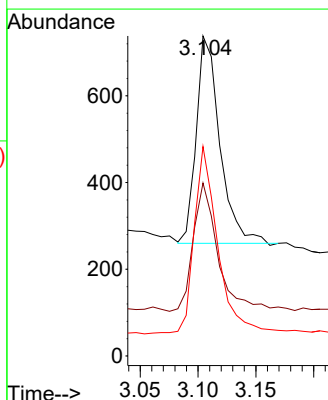
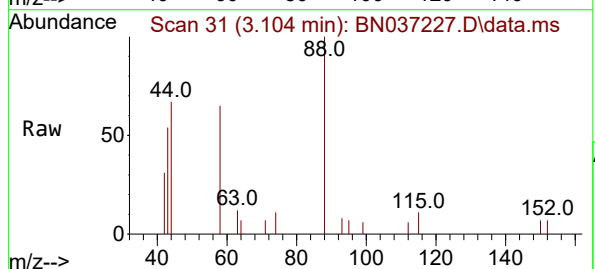
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

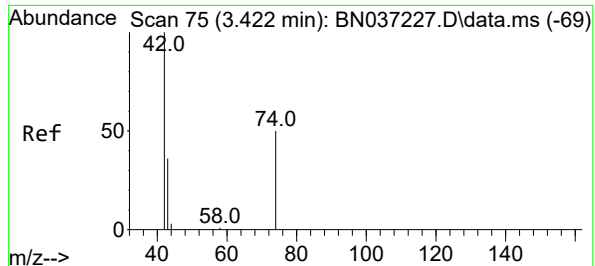
Tgt Ion:152 Resp: 1287
Ion Ratio Lower Upper
152 100
150 156.5 125.2 187.8
115 73.0 58.4 87.6



#2
1,4-Dioxane
Concen: 0.383 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 88 Resp: 676
Ion Ratio Lower Upper
88 100
43 65.8 52.6 79.0
58 91.9 73.5 110.3

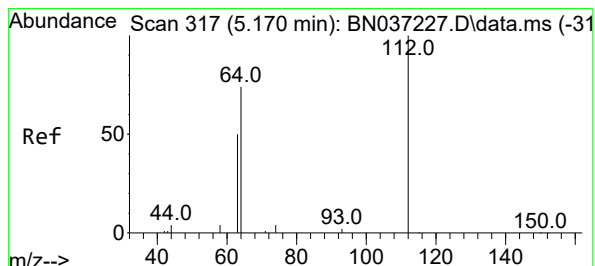
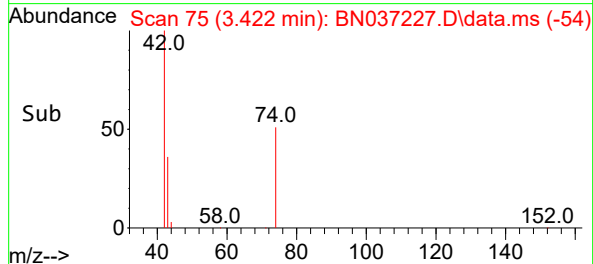
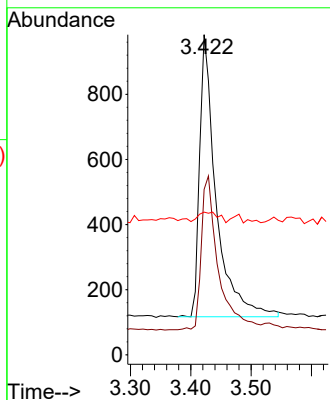
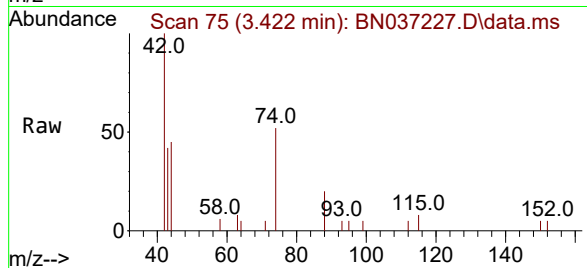




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

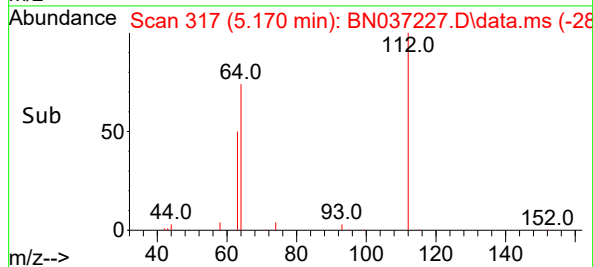
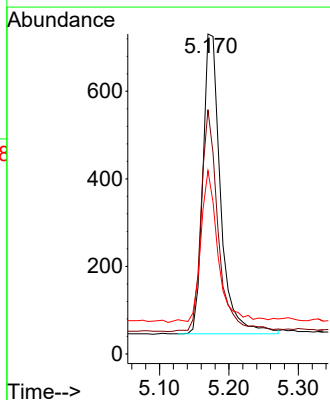
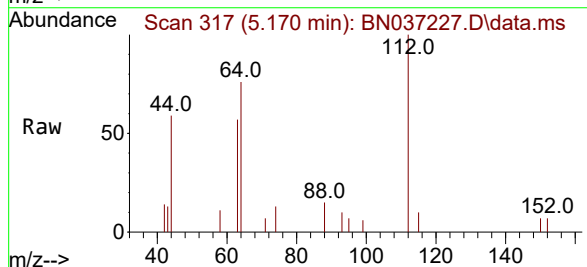
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

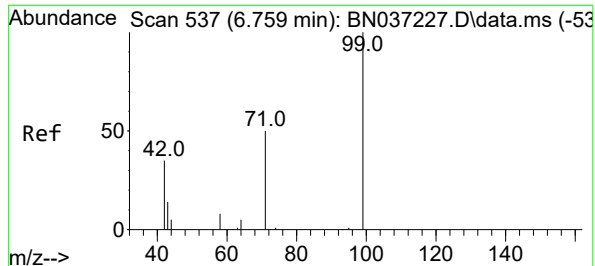
Tgt Ion: 42 Resp: 1644
Ion Ratio Lower Upper
42 100
74 55.7 44.6 66.8
44 4.4 3.5 5.3



#4
2-Fluorophenol
Concen: 0.383 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 112 Resp: 1212
Ion Ratio Lower Upper
112 100
64 71.5 57.2 85.8
63 49.7 39.8 59.6

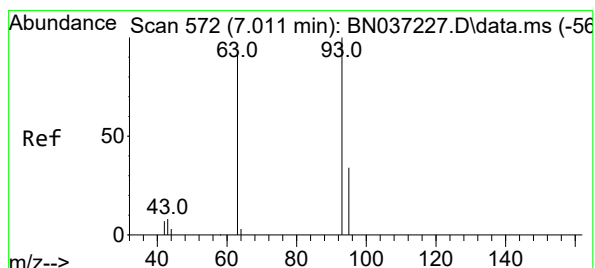
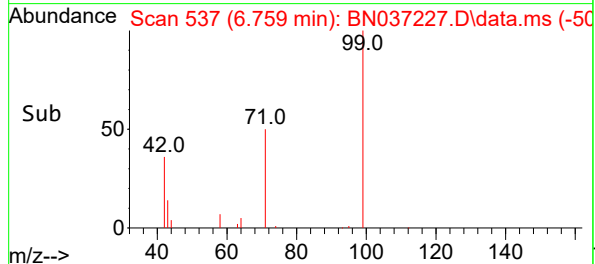
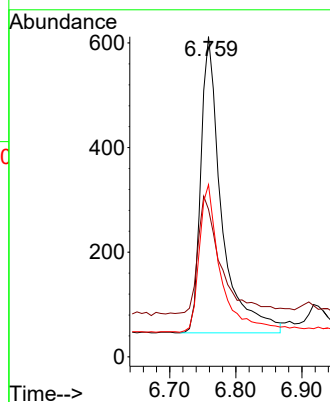
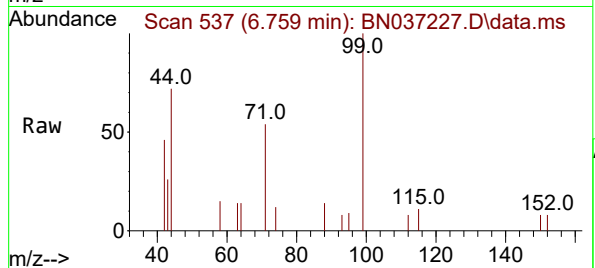




#5
Phenol-d6
Concen: 0.372 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

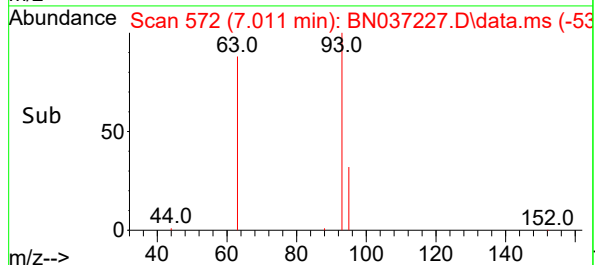
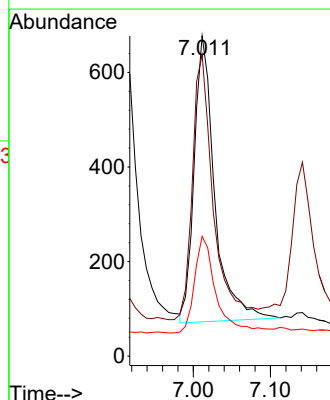
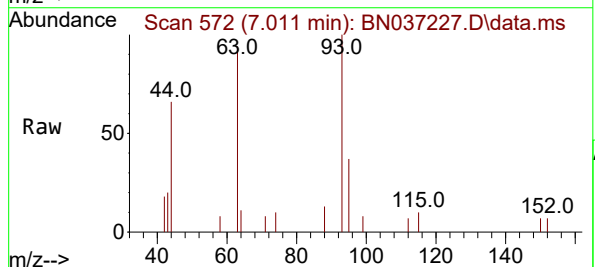
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

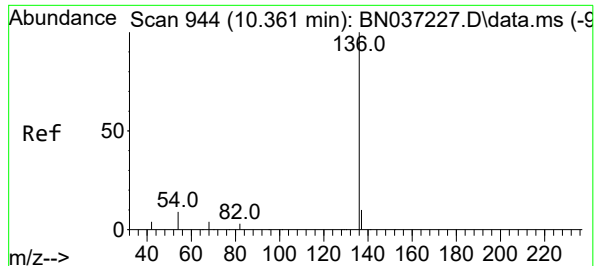
Tgt Ion: 99 Resp: 1239
Ion Ratio Lower Upper
99 100
42 45.3 36.2 54.4
71 53.0 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 93 Resp: 1120
Ion Ratio Lower Upper
93 100
63 94.0 75.2 112.8
95 35.4 28.3 42.5

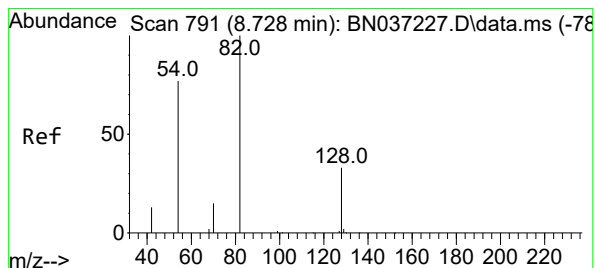
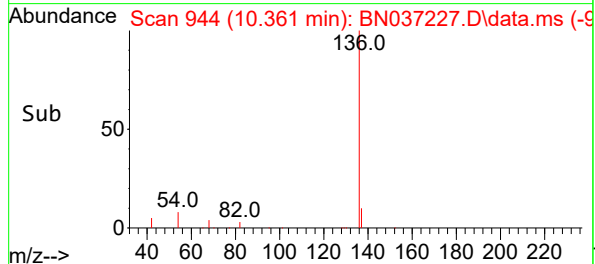
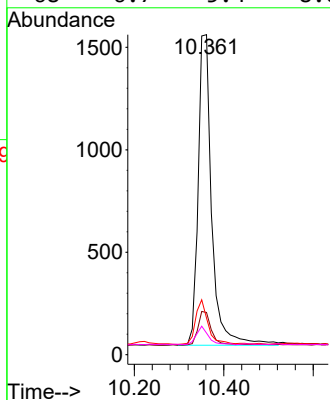
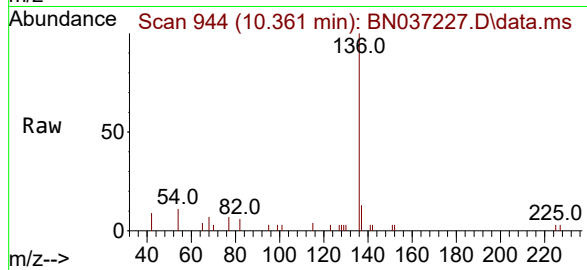




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

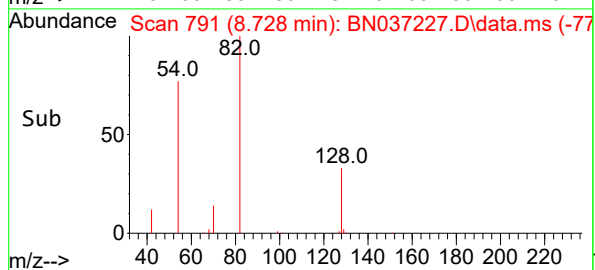
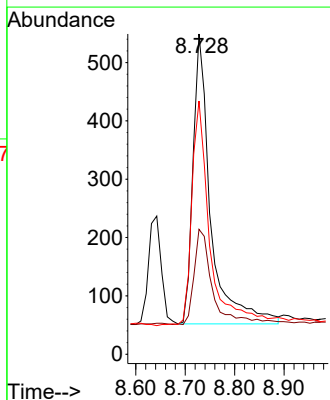
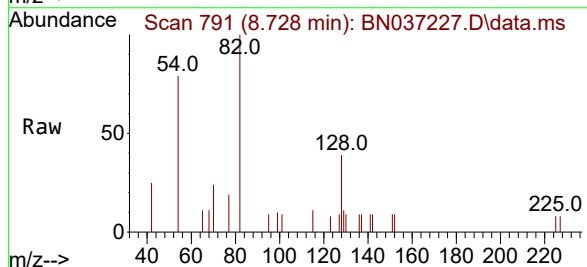
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

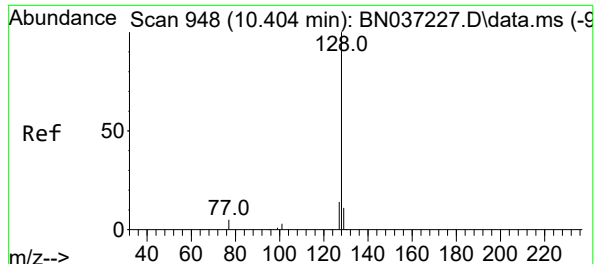
Tgt Ion:	136	Resp:	3210
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	11.5	9.2	13.8
68	6.7	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:	82	Resp:	1234
Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	79.1	63.3	94.9





#9

Naphthalene

Concen: 0.391 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

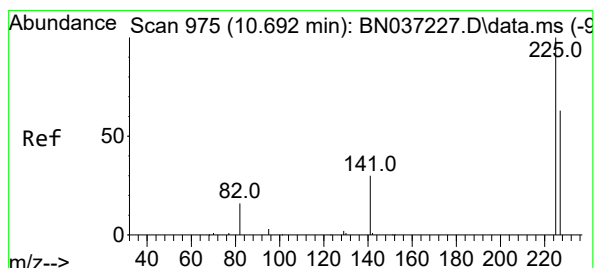
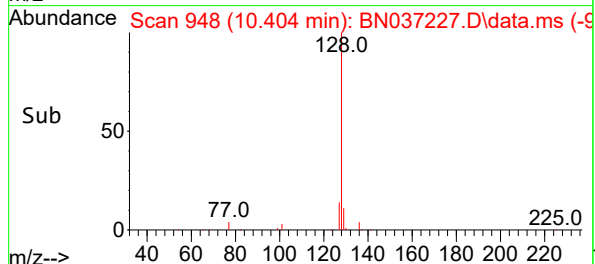
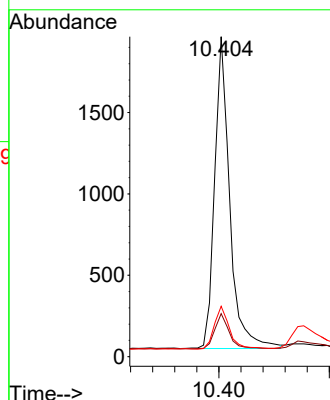
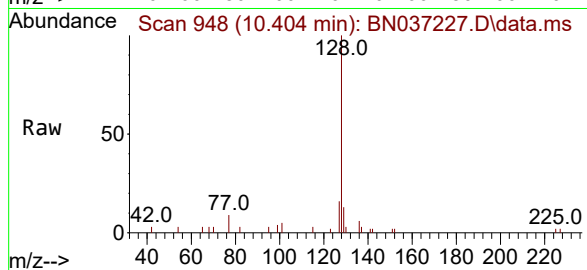
Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:	128	Resp:	3636
Ion	Ratio	Lower	Upper
128	100		
129	13.4	10.7	16.1
127	15.8	12.6	19.0



#10

Hexachlorobutadiene

Concen: 0.428 ng

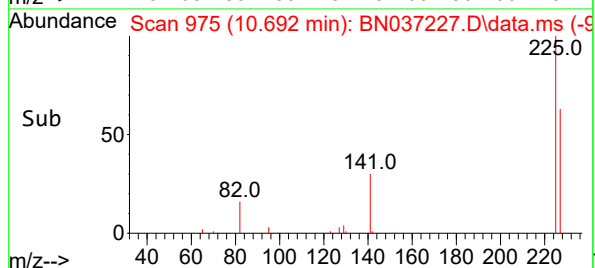
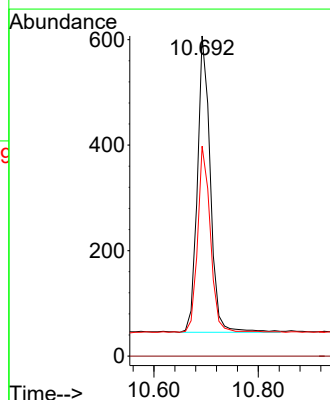
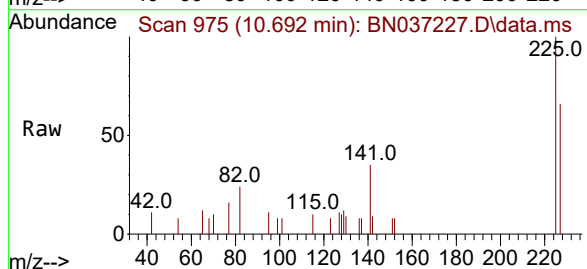
RT: 10.692 min Scan# 975

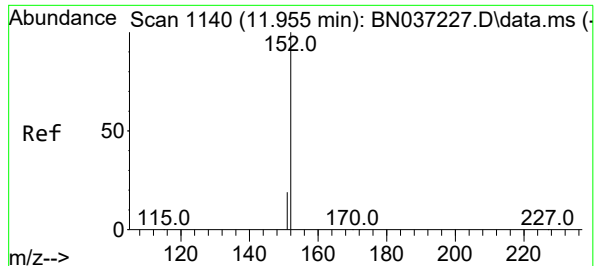
Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Tgt Ion:	225	Resp:	968
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.6	49.2	73.8

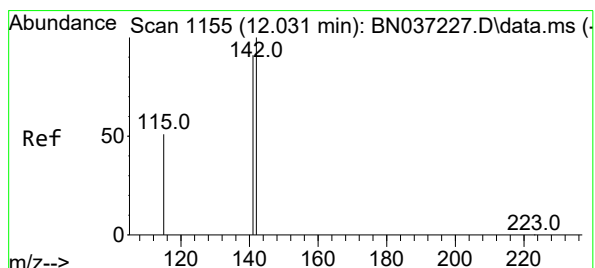
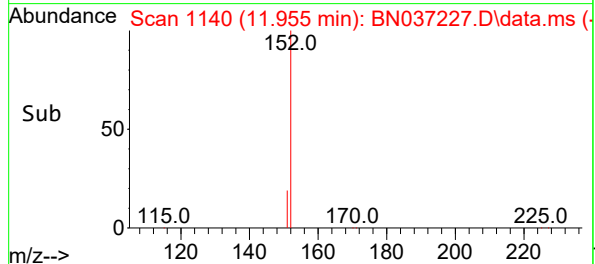
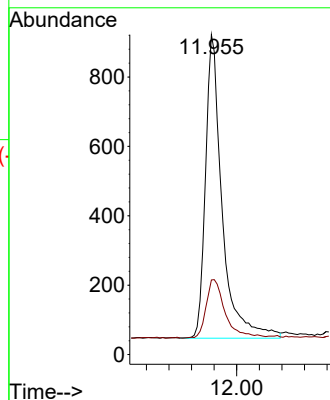
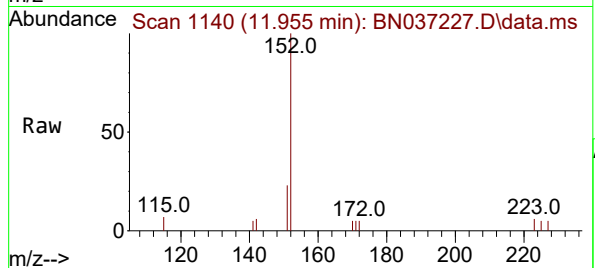




#11
2-Methylnaphthalene-d10
Concen: 0.415 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

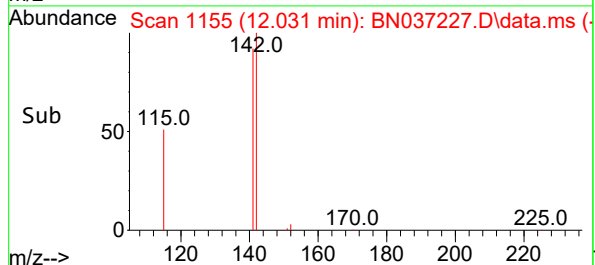
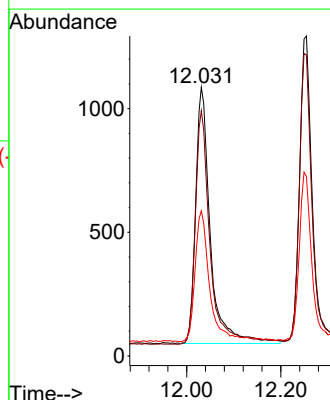
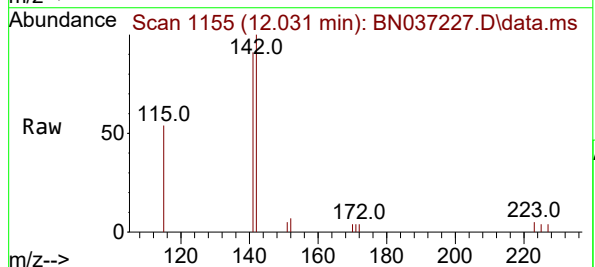
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

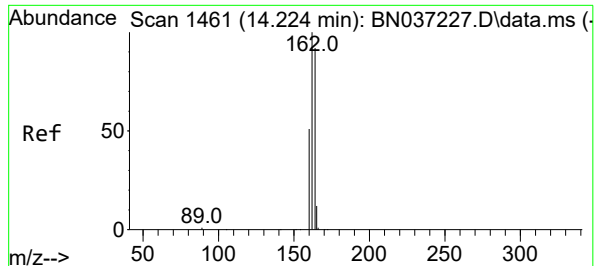
Tgt Ion:152 Resp: 1787
Ion Ratio Lower Upper
152 100
151 22.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.400 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:142 Resp: 2261
Ion Ratio Lower Upper
142 100
141 91.3 73.0 109.6
115 54.1 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

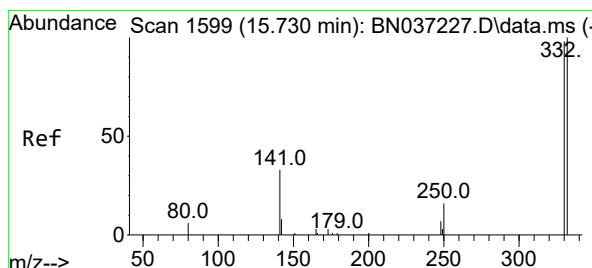
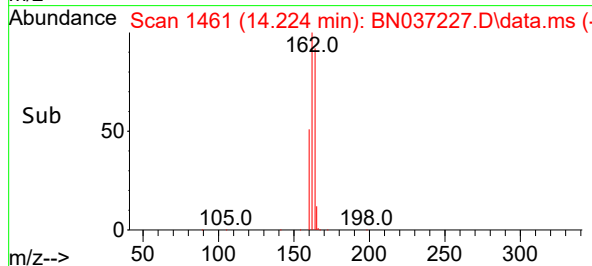
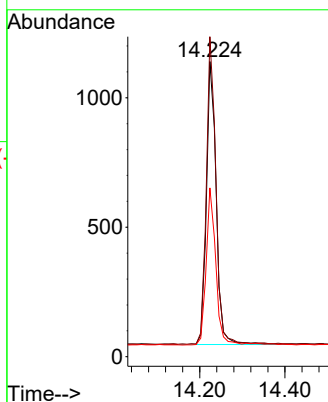
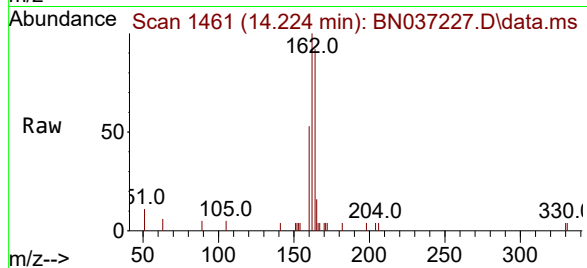
Tgt Ion:164 Resp: 1738

Ion Ratio Lower Upper

164 100

162 108.4 86.7 130.1

160 57.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.413 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

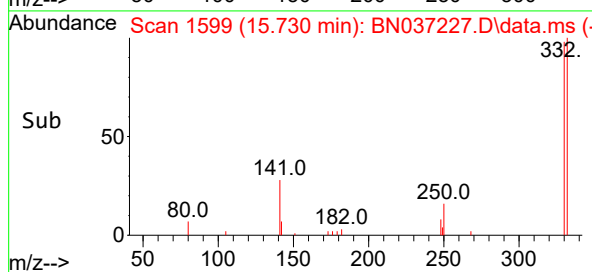
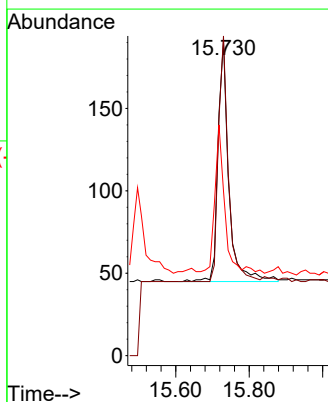
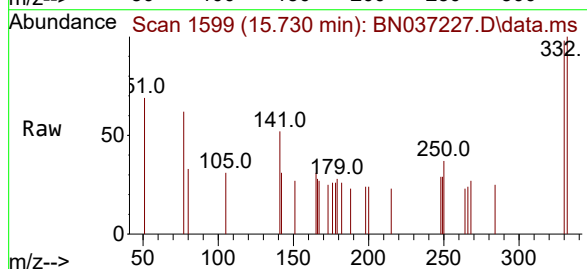
Tgt Ion:330 Resp: 298

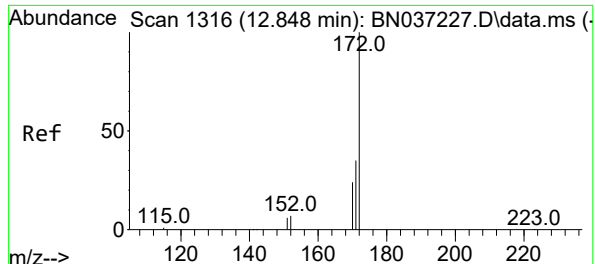
Ion Ratio Lower Upper

330 100

332 93.6 74.9 112.3

141 56.4 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.404 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

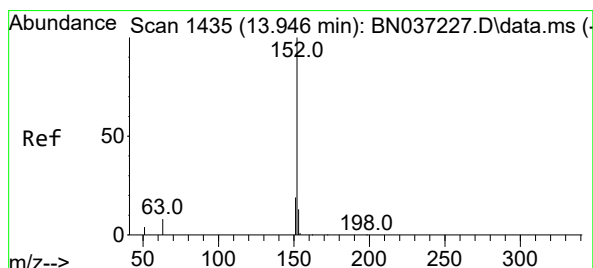
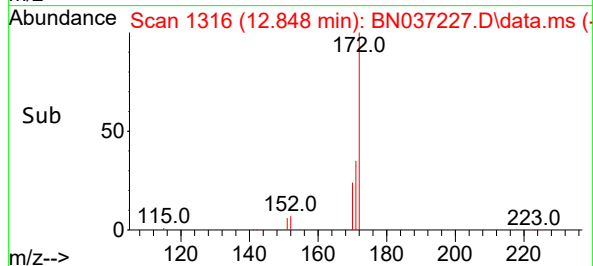
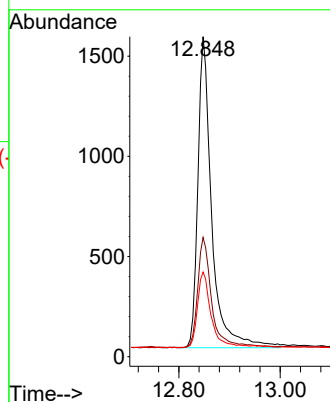
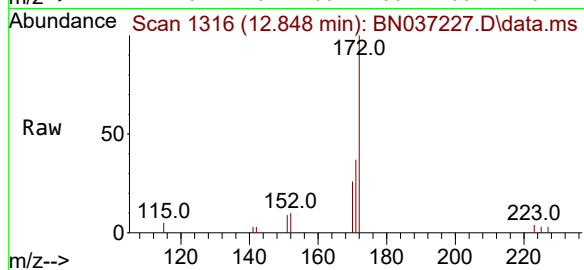
Tgt Ion:172 Resp: 2952

Ion Ratio Lower Upper

172 100

171 37.3 29.8 44.8

170 26.4 21.1 31.7



#16

Acenaphthylene

Concen: 0.382 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

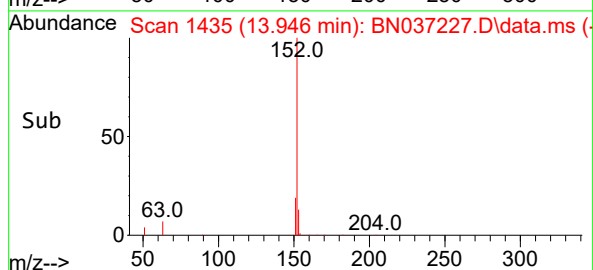
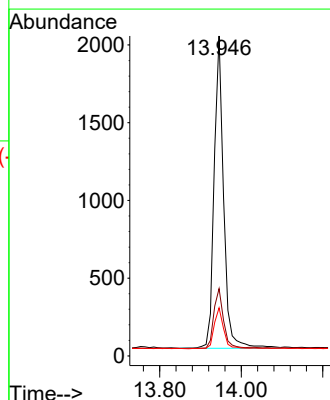
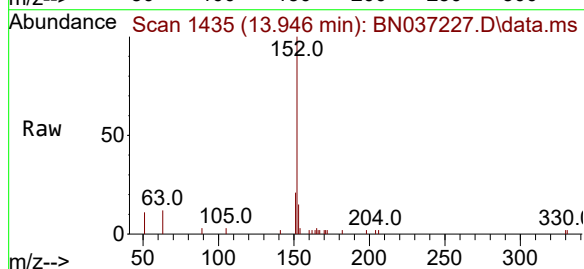
Tgt Ion:152 Resp: 3250

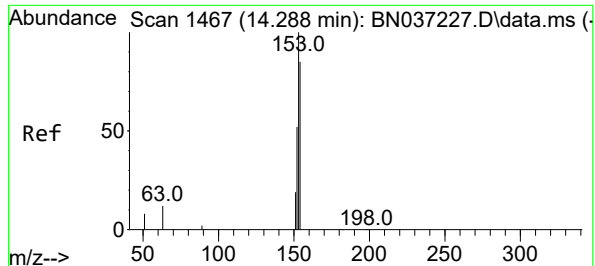
Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 13.4 10.7 16.1





#17

Acenaphthene

Concen: 0.392 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

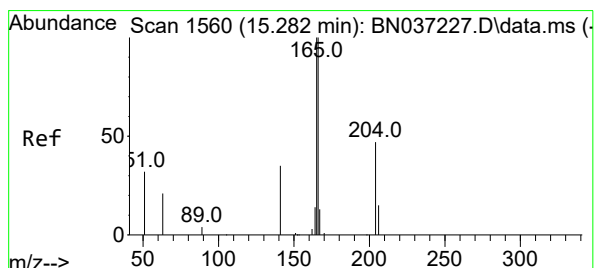
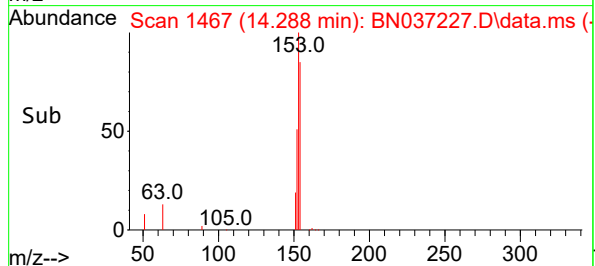
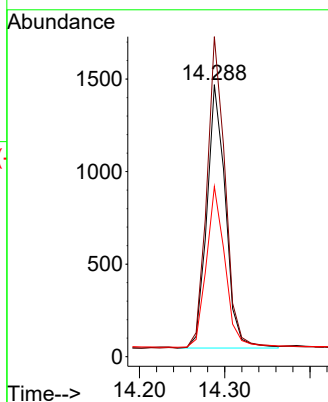
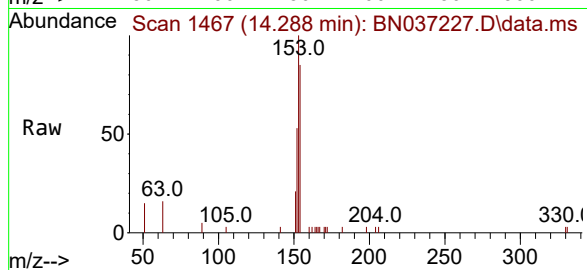
Tgt Ion:154 Resp: 2155

Ion Ratio Lower Upper

154 100

153 118.2 94.6 141.8

152 62.0 49.6 74.4



#18

Fluorene

Concen: 0.392 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

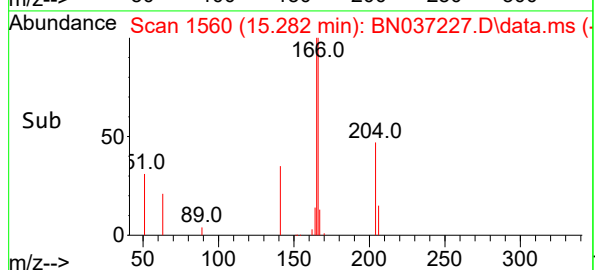
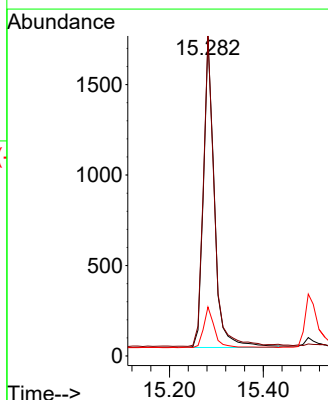
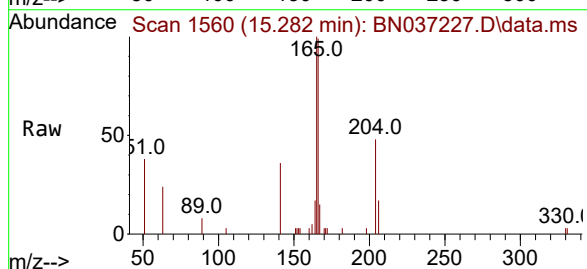
Tgt Ion:166 Resp: 2768

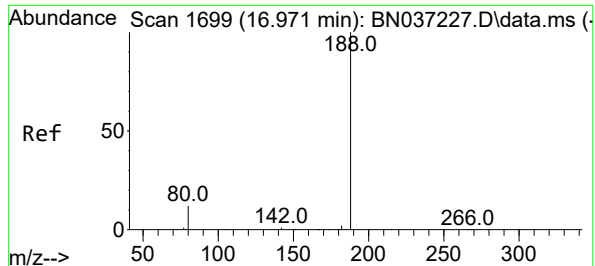
Ion Ratio Lower Upper

166 100

165 99.7 79.8 119.6

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

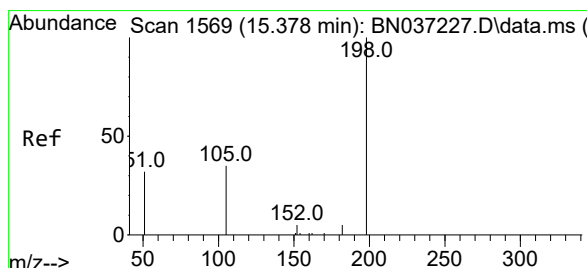
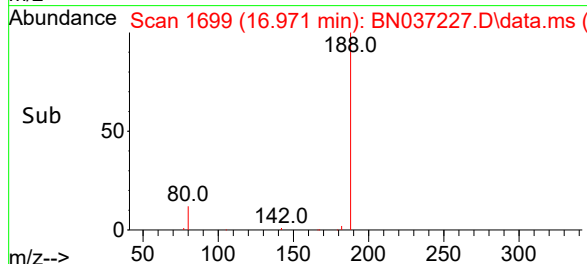
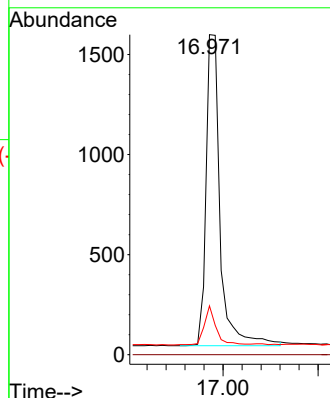
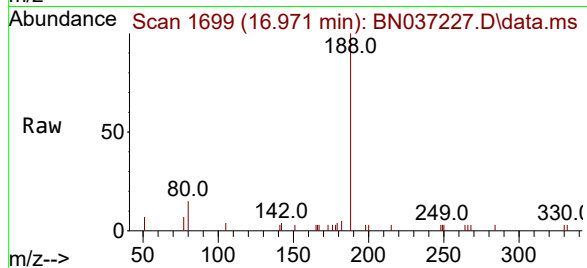
Tgt Ion:188 Resp: 3195

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.3 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.368 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

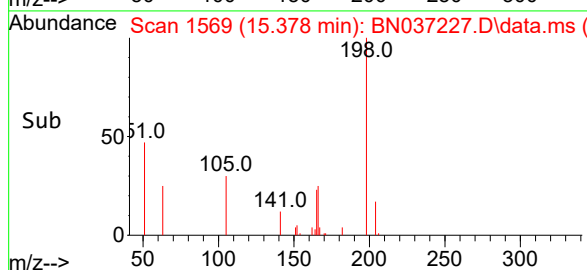
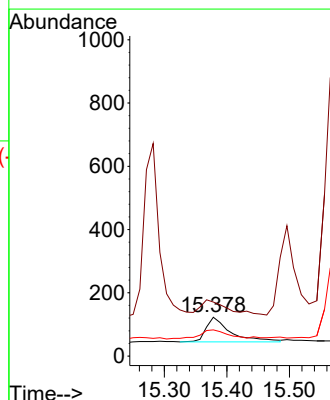
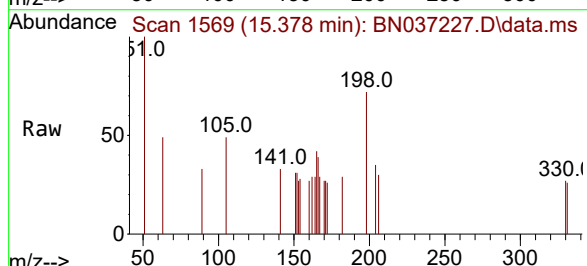
Tgt Ion:198 Resp: 211

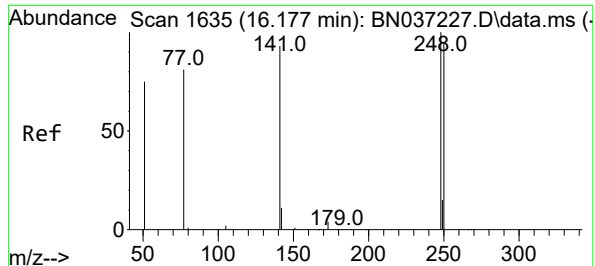
Ion Ratio Lower Upper

198 100

51 139.0 111.2 166.8

105 67.5 54.0 81.0





#21

4-Bromophenyl-phenylether

Concen: 0.375 ng

RT: 16.177 min Scan# 1635

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

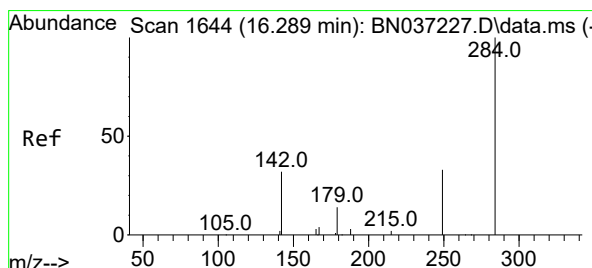
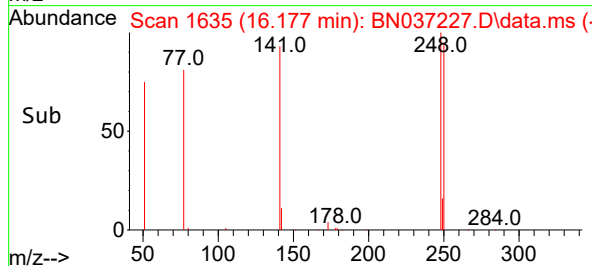
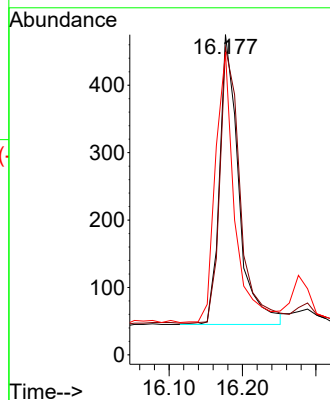
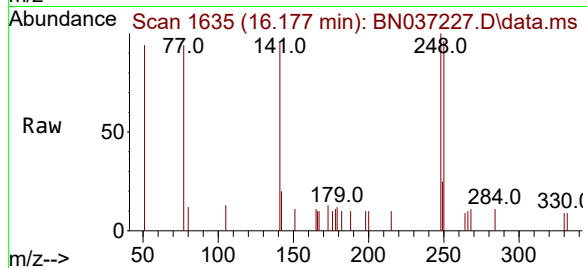
Tgt Ion:248 Resp: 780

Ion Ratio Lower Upper

248 100

250 96.0 76.8 115.2

141 94.5 75.6 113.4



#22

Hexachlorobenzene

Concen: 0.412 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

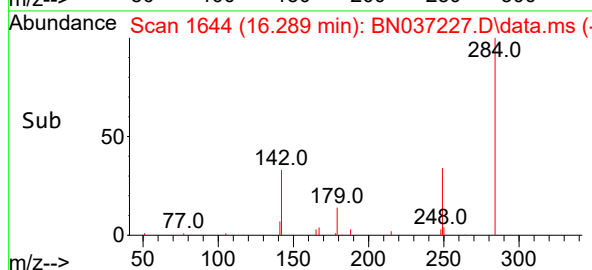
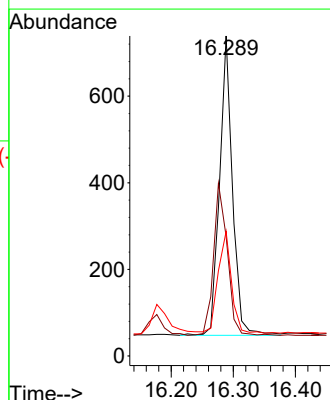
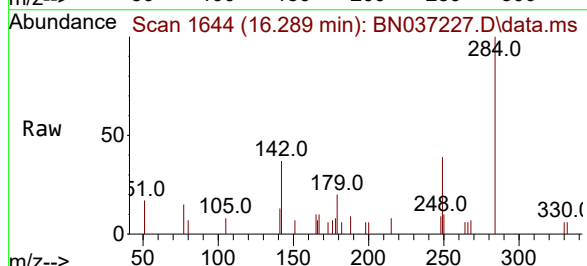
Tgt Ion:284 Resp: 994

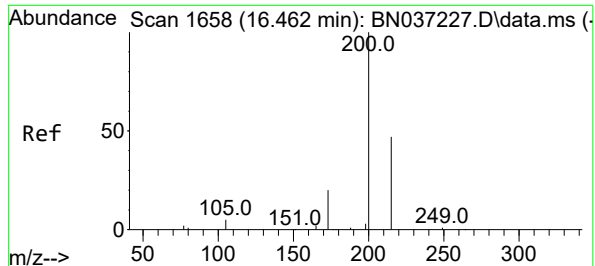
Ion Ratio Lower Upper

284 100

142 54.7 43.8 65.6

249 35.5 28.4 42.6

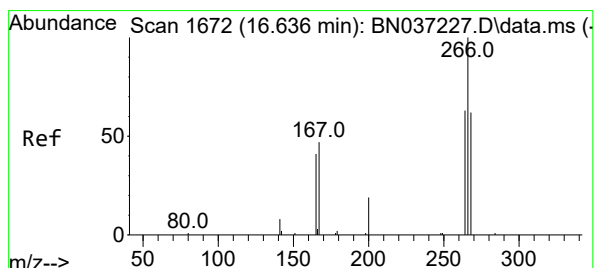
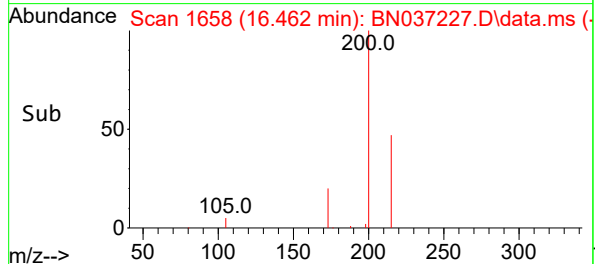
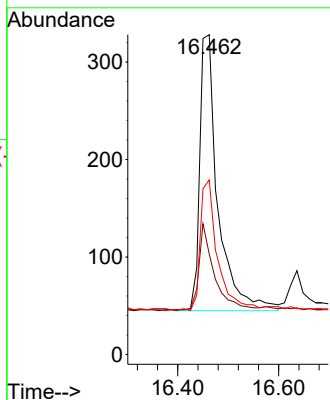
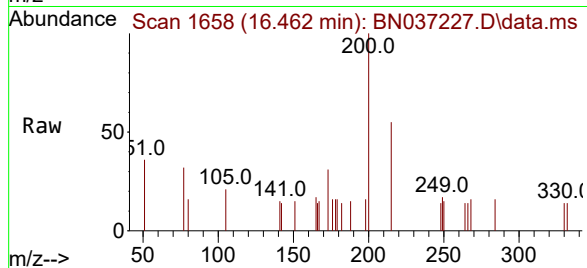




#23
Atrazine
Concen: 0.382 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

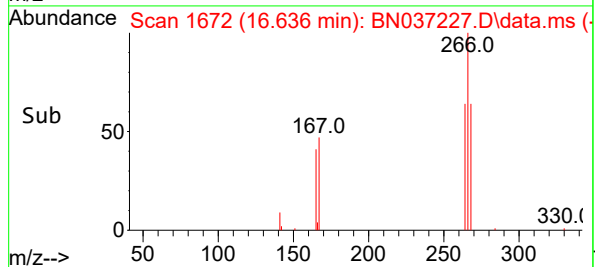
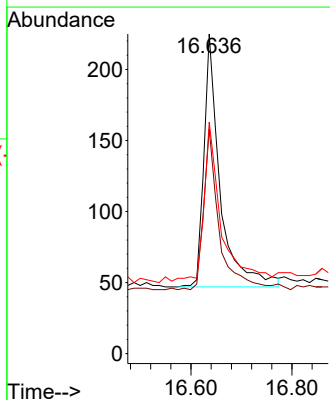
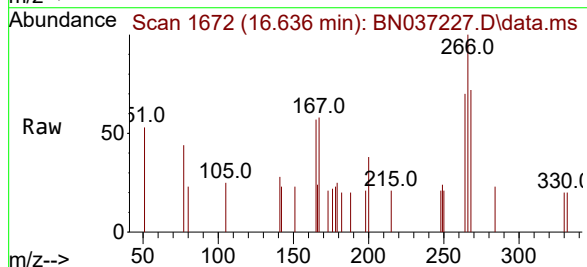
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

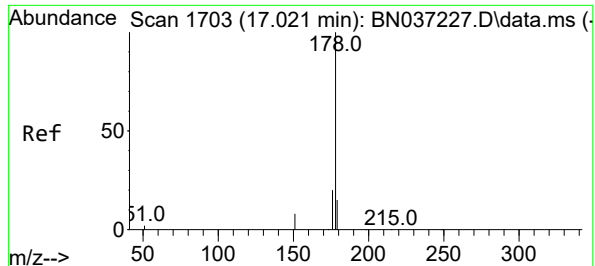
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.4	25.1	37.7
215	54.6	43.7	65.5



#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.2	73.8
268	66.8	53.4	80.2





#25

Phenanthrene

Concen: 0.374 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

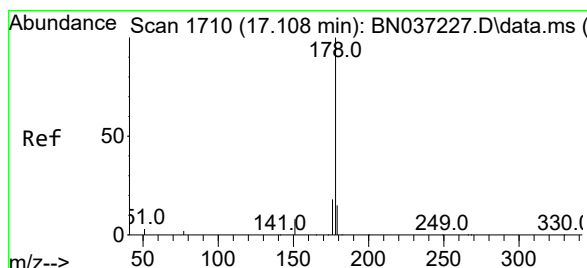
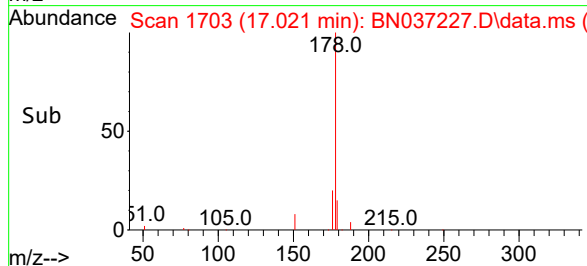
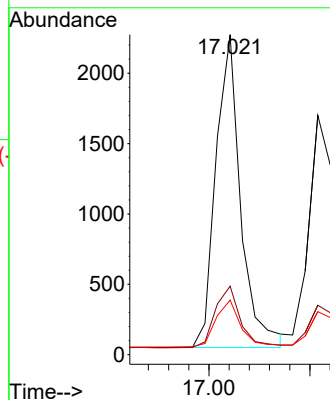
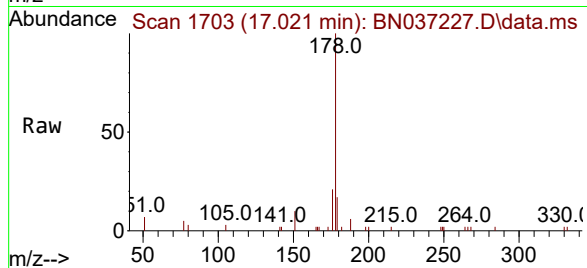
Tgt Ion:178 Resp: 3790

Ion Ratio Lower Upper

178 100

176 20.4 16.3 24.5

179 15.7 12.6 18.8



#26

Anthracene

Concen: 0.372 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

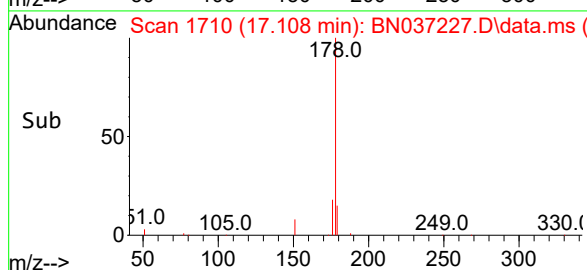
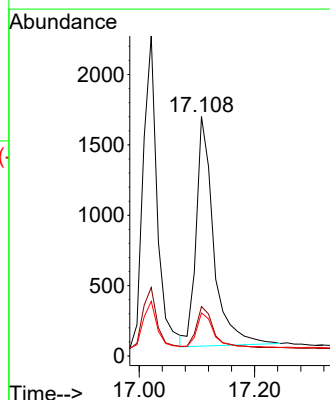
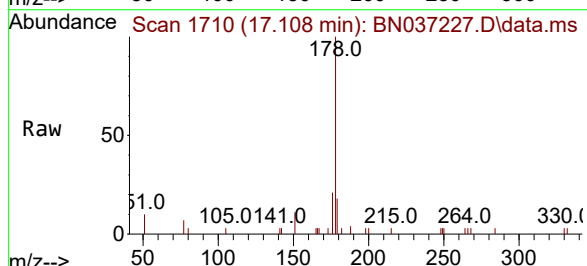
Tgt Ion:178 Resp: 3450

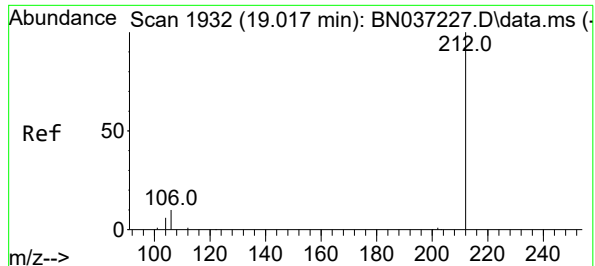
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.402 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

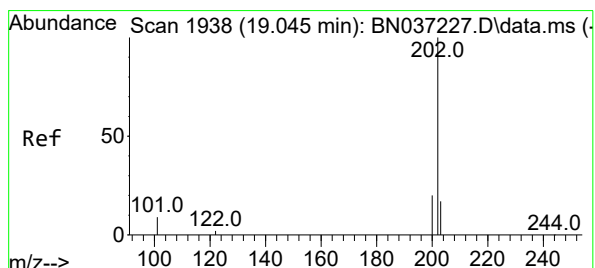
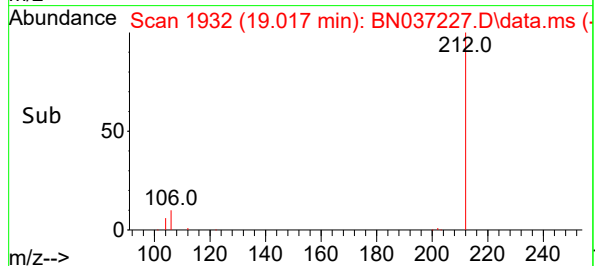
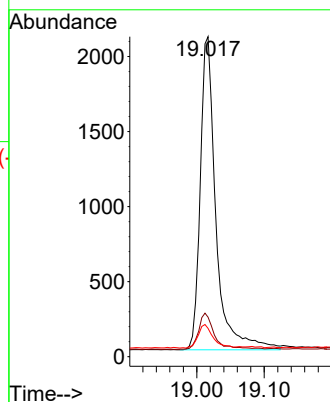
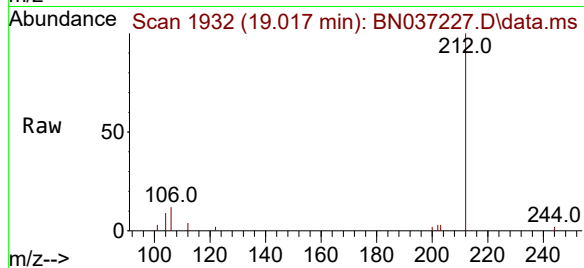
Tgt Ion:212 Resp: 3364

Ion Ratio Lower Upper

212 100

106 11.6 9.3 13.9

104 7.1 5.7 8.5



#28

Fluoranthene

Concen: 0.380 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

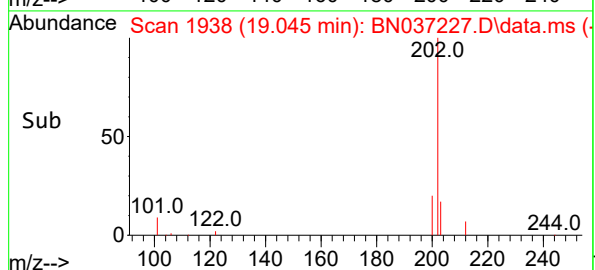
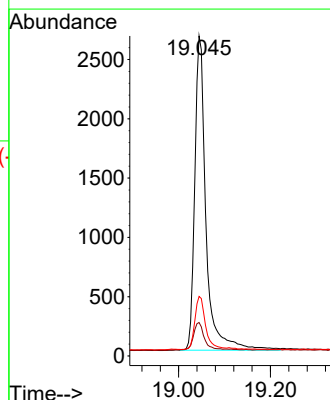
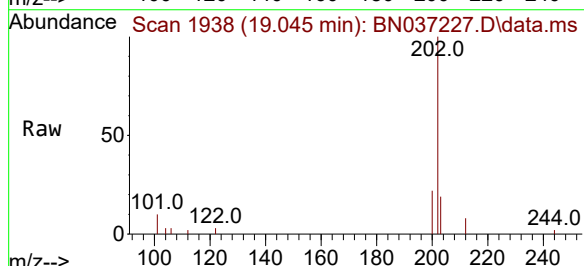
Tgt Ion:202 Resp: 4510

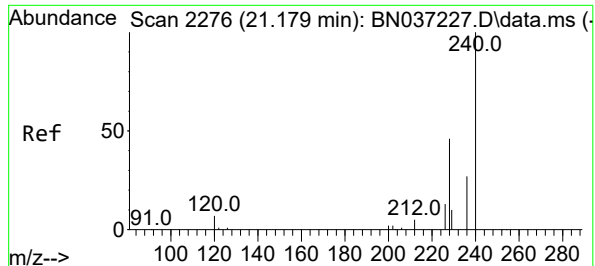
Ion Ratio Lower Upper

202 100

101 8.9 7.1 10.7

203 16.3 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

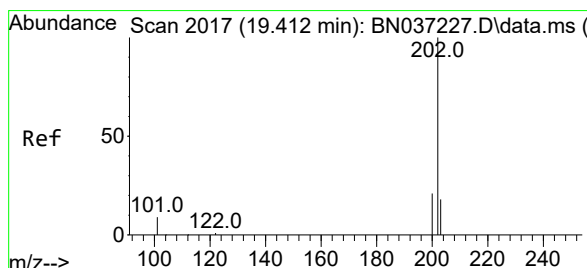
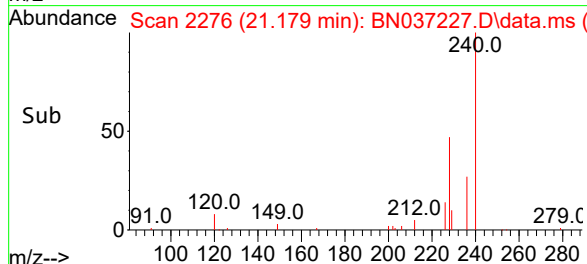
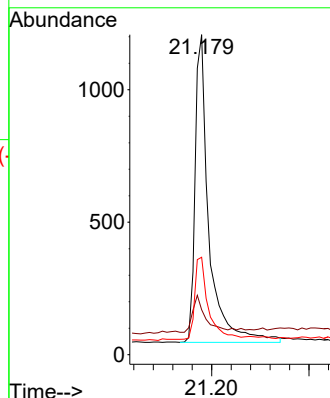
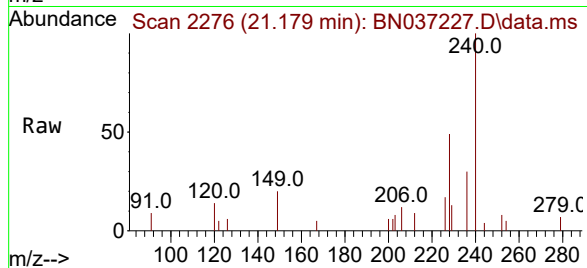
Tgt Ion:240 Resp: 2284

Ion Ratio Lower Upper

240 100

120 14.1 11.3 16.9

236 30.5 24.4 36.6



#30

Pyrene

Concen: 0.417 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

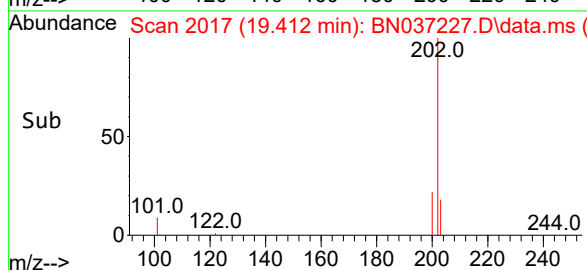
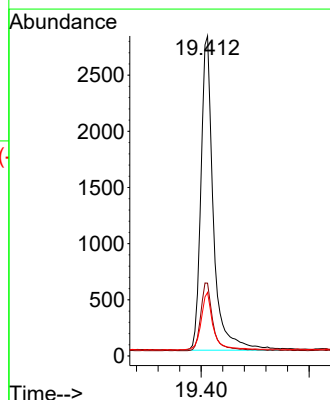
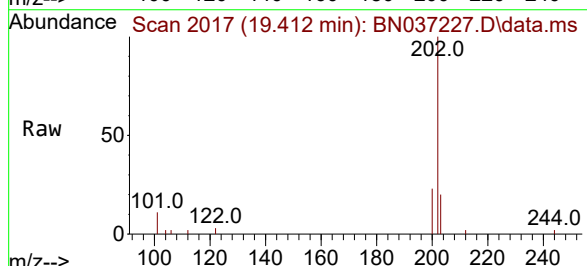
Tgt Ion:202 Resp: 4482

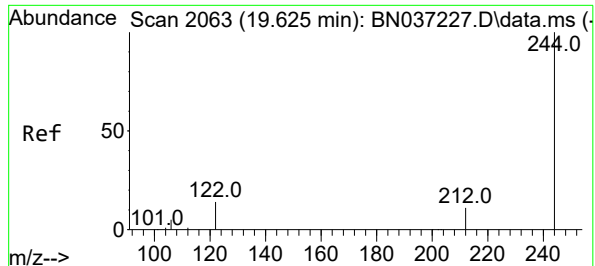
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

203 17.9 14.3 21.5





#31

Terphenyl-d14

Concen: 0.418 ng

RT: 19.625 min Scan# 2063

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

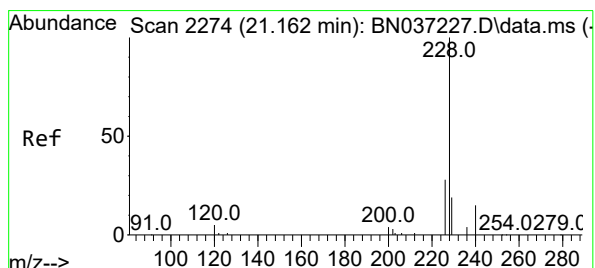
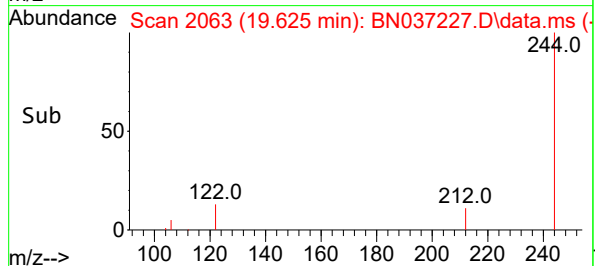
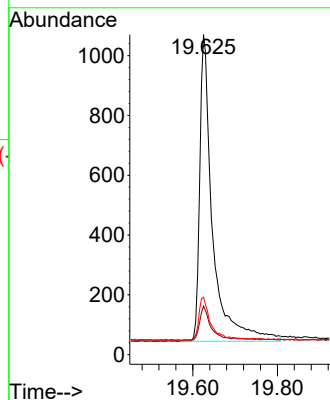
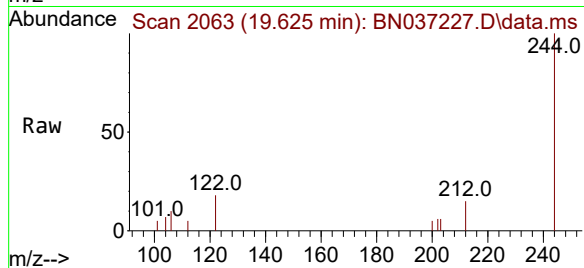
Tgt Ion:244 Resp: 2160

Ion Ratio Lower Upper

244 100

212 15.2 12.2 18.2

122 17.9 14.3 21.5



#32

Benzo(a)anthracene

Concen: 0.363 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

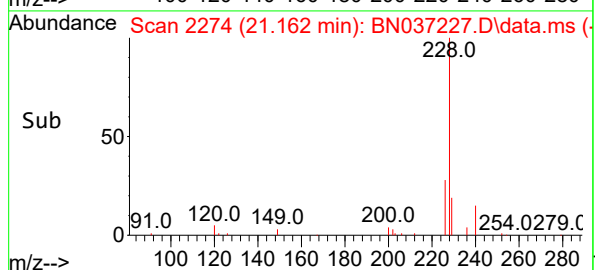
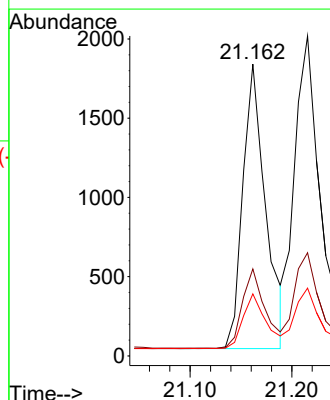
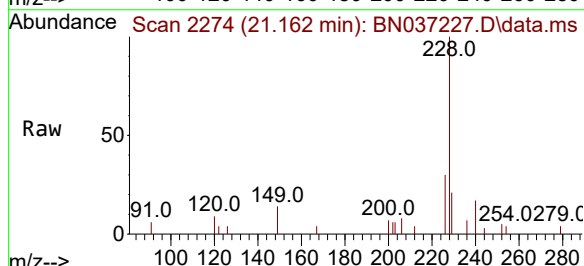
Tgt Ion:228 Resp: 2798

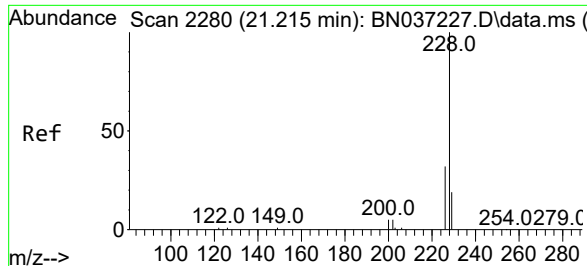
Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.8

229 21.2 17.0 25.4





#33

Chrysene

Concen: 0.403 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

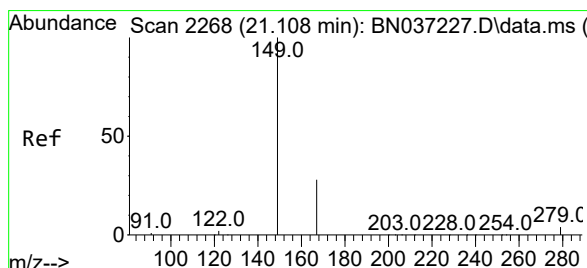
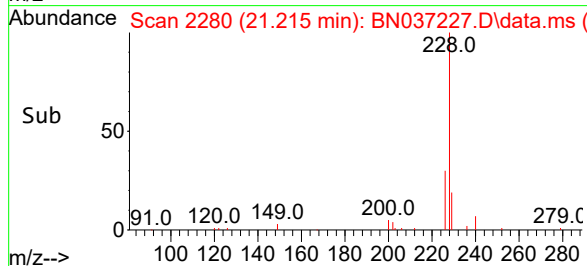
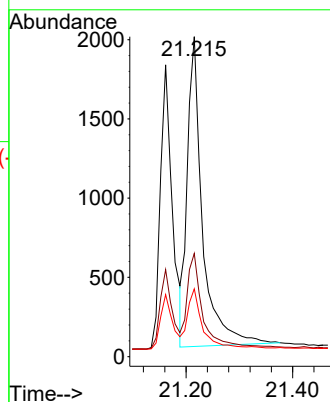
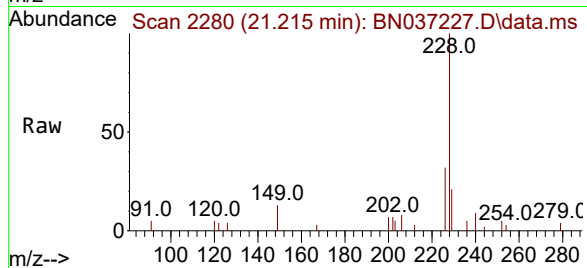
Tgt Ion:228 Resp: 3871

Ion Ratio Lower Upper

228 100

226 32.2 25.8 38.6

229 21.2 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.407 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

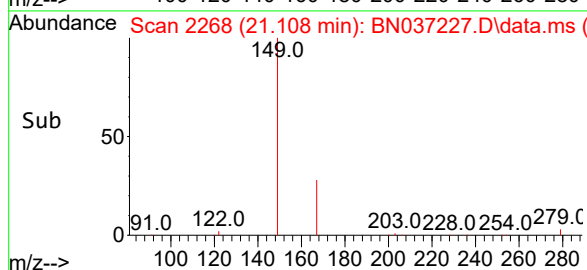
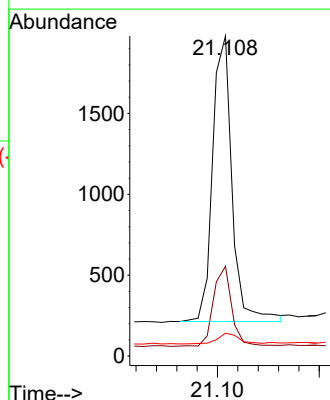
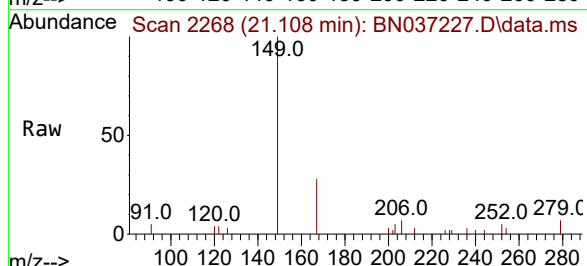
Tgt Ion:149 Resp: 2338

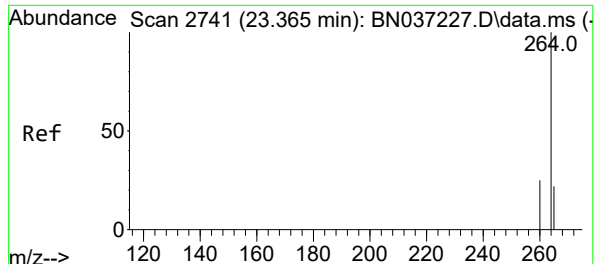
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

279 4.1 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

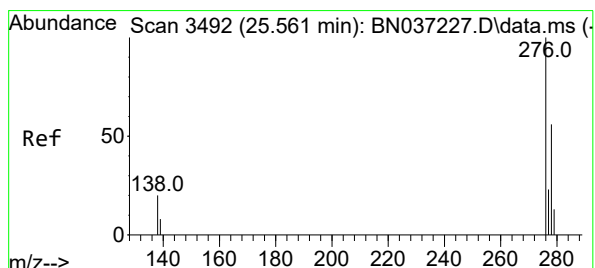
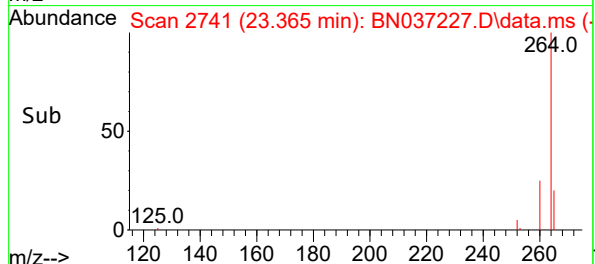
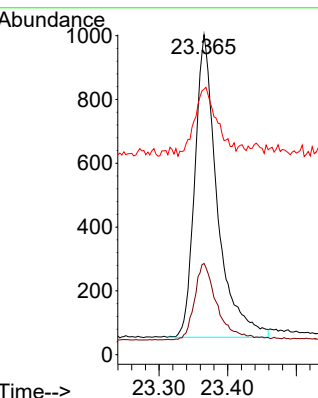
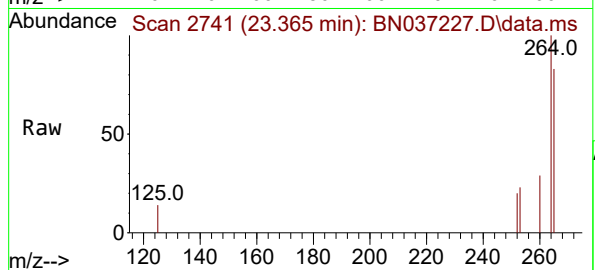
Tgt Ion:264 Resp: 2150

Ion Ratio Lower Upper

264 100

260 28.5 22.8 34.2

265 83.0 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.374 ng

RT: 25.561 min Scan# 3492

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

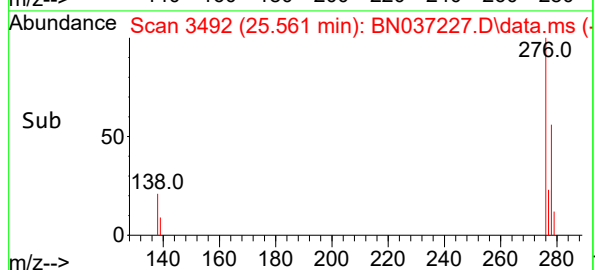
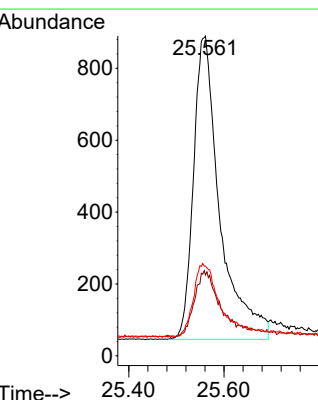
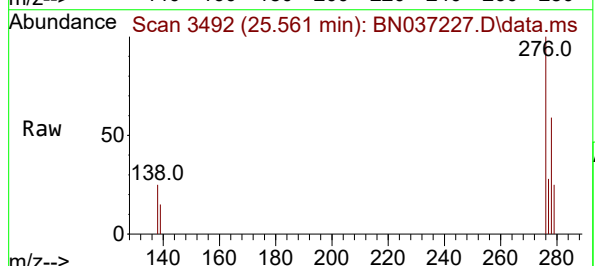
Tgt Ion:276 Resp: 3239

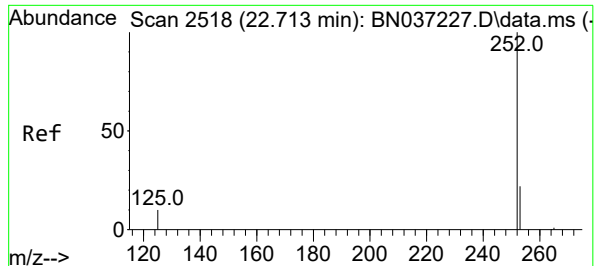
Ion Ratio Lower Upper

276 100

138 21.0 16.8 25.2

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.376 ng

RT: 22.713 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

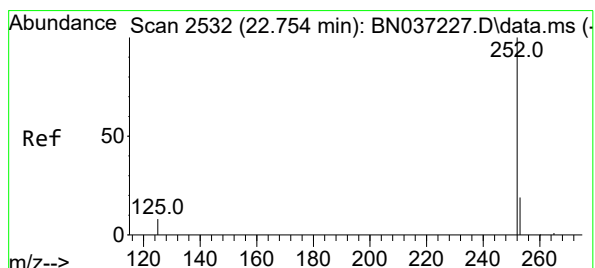
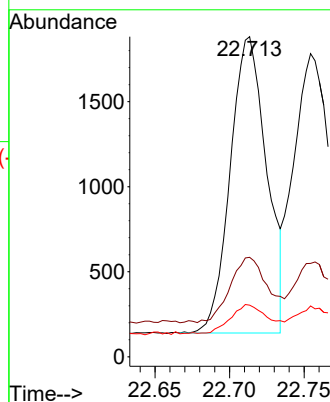
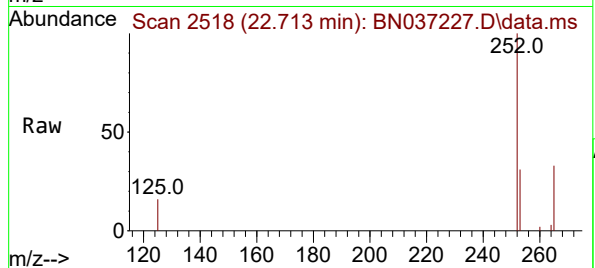
Tgt Ion:252 Resp: 2958

Ion Ratio Lower Upper

252 100

253 31.1 24.9 37.3

125 16.1 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.388 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

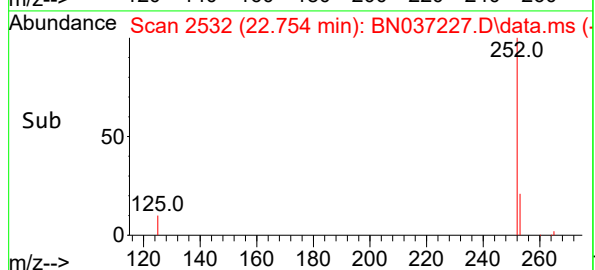
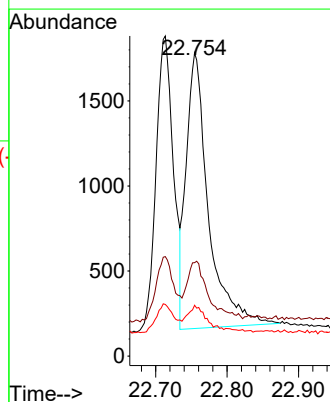
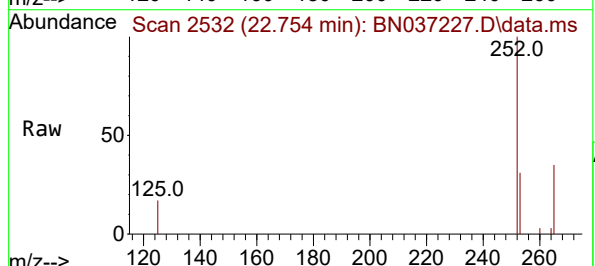
Tgt Ion:252 Resp: 3501

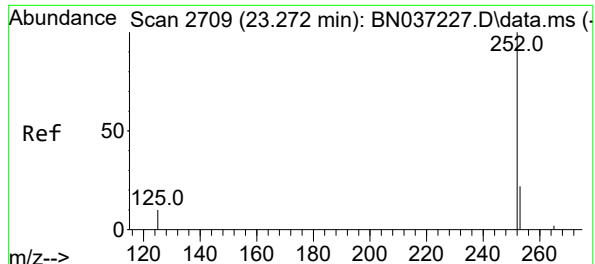
Ion Ratio Lower Upper

252 100

253 30.8 24.6 37.0

125 16.8 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

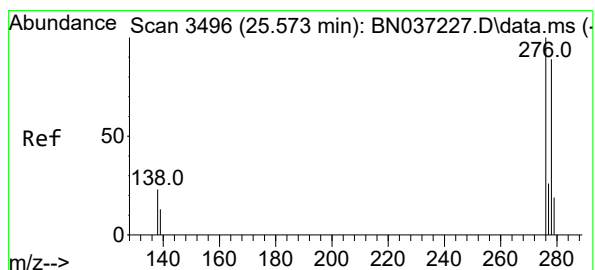
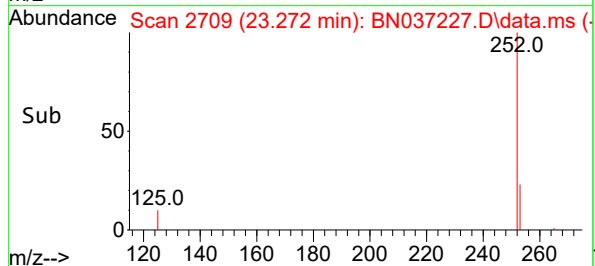
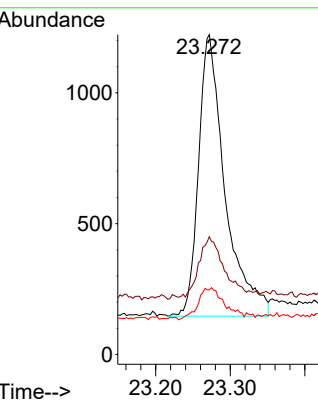
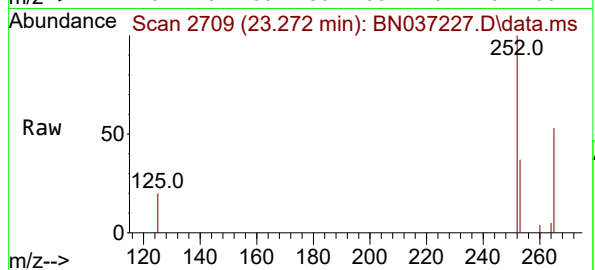
Tgt Ion:252 Resp: 2653

Ion Ratio Lower Upper

252 100

253 36.8 29.4 44.2

125 20.2 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.345 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

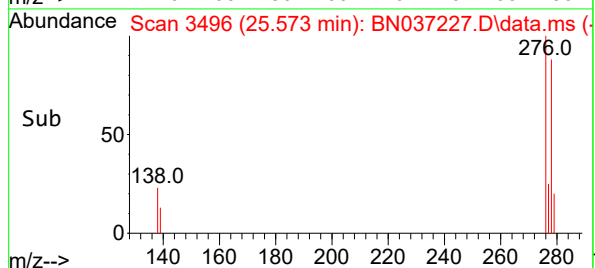
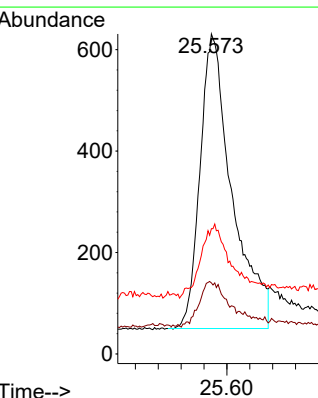
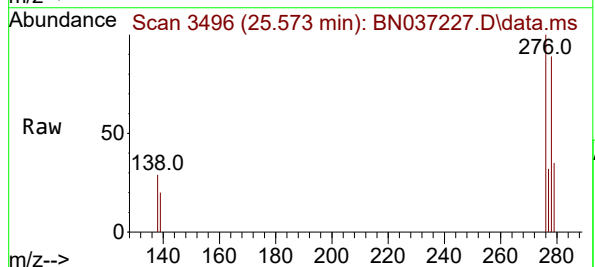
Tgt Ion:278 Resp: 2256

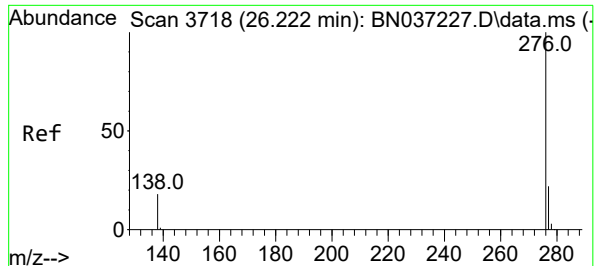
Ion Ratio Lower Upper

278 100

139 22.2 17.8 26.6

279 39.1 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.385 ng

RT: 26.222 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037227.D

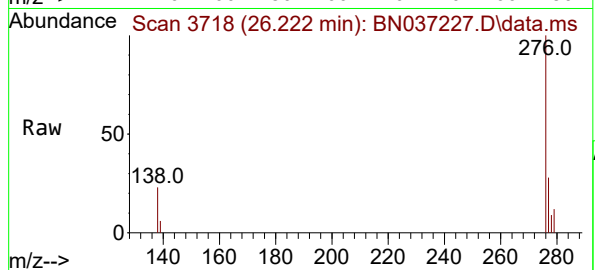
Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



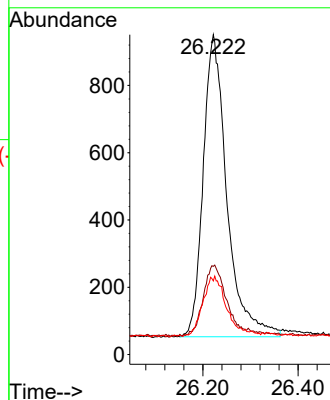
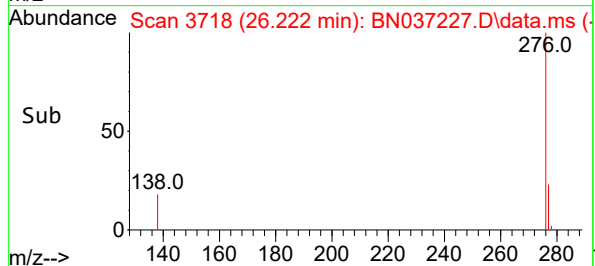
Tgt Ion:276 Resp: 3099

Ion Ratio Lower Upper

276 100

277 27.5 22.0 33.0

138 23.0 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037228.D
 Acq On : 13 Jun 2025 15:22
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

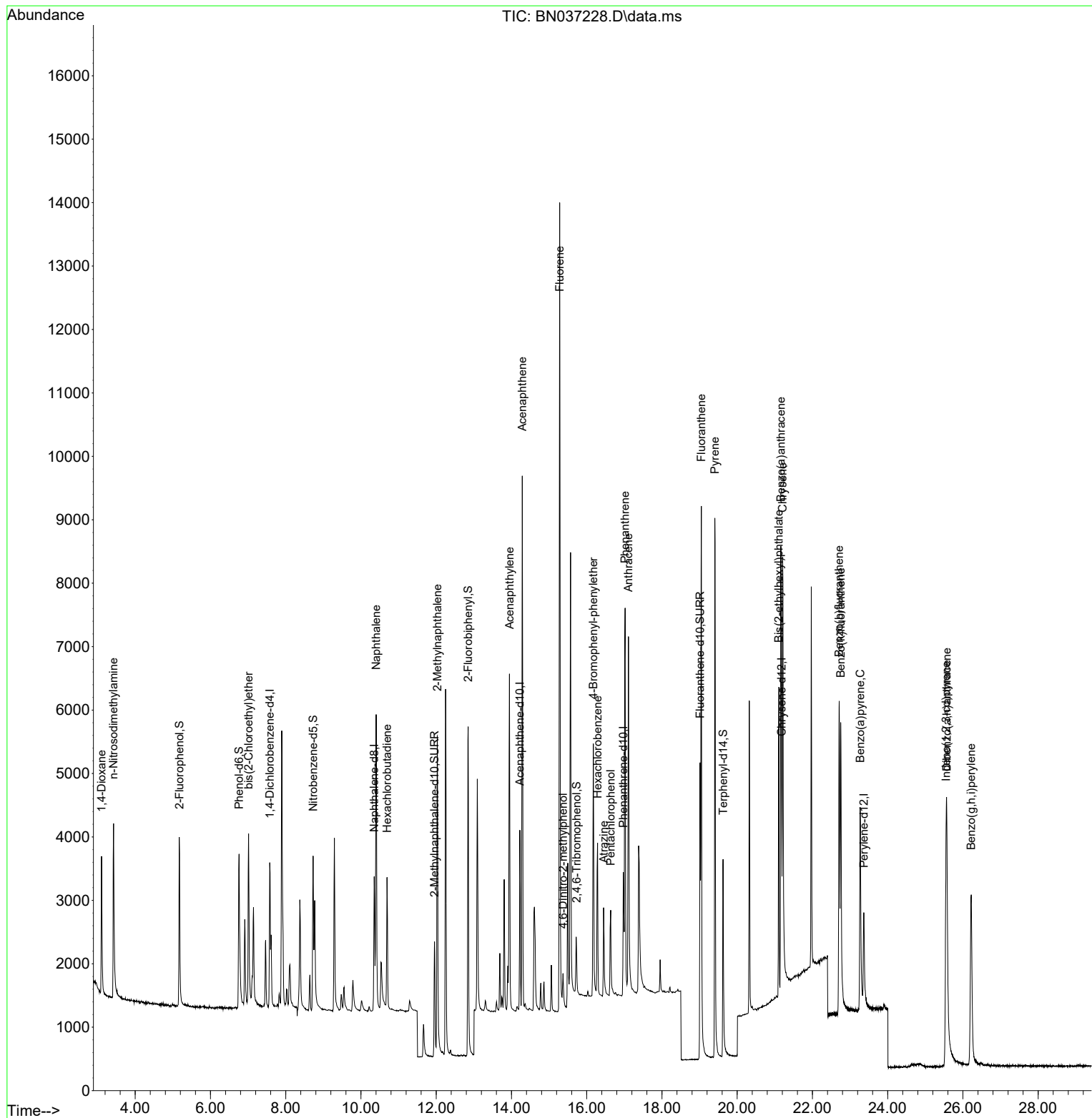
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1134	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2810	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1528	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2916	0.400	ng	0.00
29) Chrysene-d12	21.180	240	2294	0.400	ng	0.00
35) Perylene-d12	23.365	264	2157	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2057	0.739	ng	0.00
5) Phenol-d6	6.759	99	2237	0.762	ng	0.00
8) Nitrobenzene-d5	8.728	82	2118	0.763	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	2923	0.775	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	524	0.826	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	5066	0.789	ng	0.00
27) Fluoranthene-d10	19.012	212	5930	0.777	ng	0.00
31) Terphenyl-d14	19.625	244	3995	0.770	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1213	0.780	ng	Qvalue 91
3) n-Nitrosodimethylamine	3.422	42	2739	0.773	ng	98
6) bis(2-Chloroethyl)ether	7.011	93	2165	0.823	ng	90
9) Naphthalene	10.404	128	6231	0.766	ng	97
10) Hexachlorobutadiene	10.692	225	1523	0.769	ng	# 97
12) 2-Methylnaphthalene	12.031	142	3926	0.794	ng	99
16) Acenaphthylene	13.946	152	5851	0.781	ng	99
17) Acenaphthene	14.288	154	3758	0.778	ng	100
18) Fluorene	15.282	166	4919	0.792	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	499	0.762	ng	# 77
21) 4-Bromophenyl-phenylether	16.177	248	1493	0.786	ng	91
22) Hexachlorobenzene	16.289	284	1655	0.751	ng	97
23) Atrazine	16.450	200	1327	0.783	ng	93
24) Pentachlorophenol	16.636	266	800	0.741	ng	99
25) Phenanthrene	17.021	178	7220	0.781	ng	99
26) Anthracene	17.108	178	6635	0.784	ng	99
28) Fluoranthene	19.045	202	8450	0.781	ng	99
30) Pyrene	19.407	202	8483	0.787	ng	99
32) Benzo(a)anthracene	21.162	228	6109	0.789	ng	98
33) Chrysene	21.206	228	7421	0.769	ng	99
34) Bis(2-ethylhexyl)phtha...	21.108	149	4590	0.796	ng	100
36) Indeno(1,2,3-cd)pyrene	25.552	276	6412	0.737	ng	# 88
37) Benzo(b)fluoranthene	22.711	252	6280	0.796	ng	91
38) Benzo(k)fluoranthene	22.752	252	7192	0.795	ng	# 92
39) Benzo(a)pyrene	23.269	252	5598	0.789	ng	# 88
40) Dibenzo(a,h)anthracene	25.570	278	4824	0.736	ng	# 88
41) Benzo(g,h,i)perylene	26.219	276	5978	0.741	ng	98

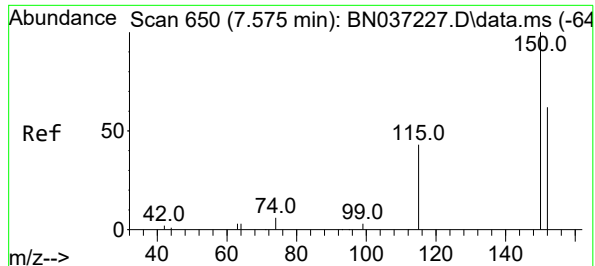
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037228.D
Acq On : 13 Jun 2025 15:22
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

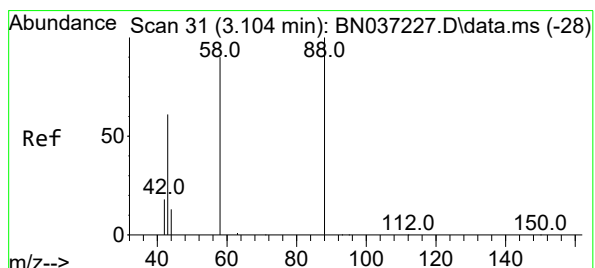
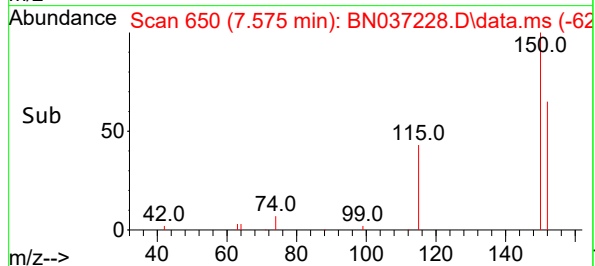
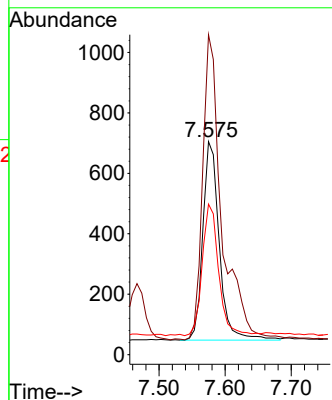
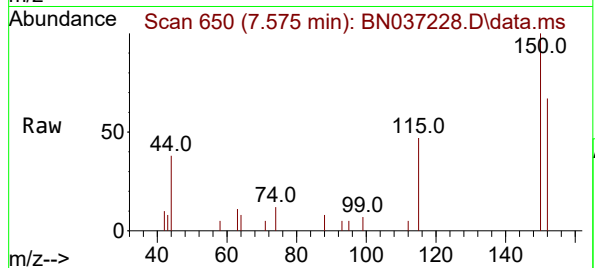




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

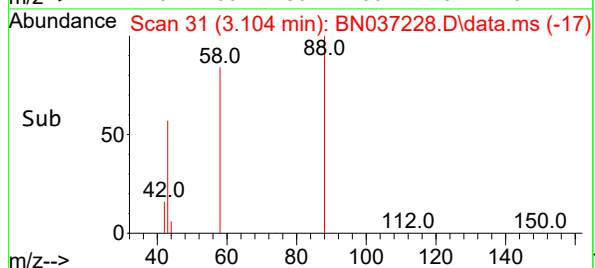
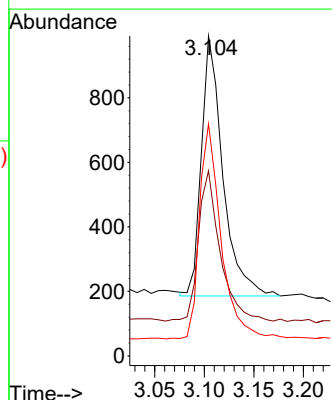
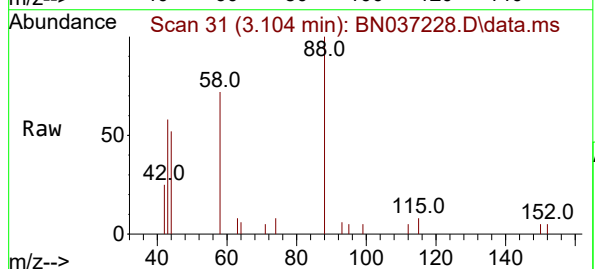
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

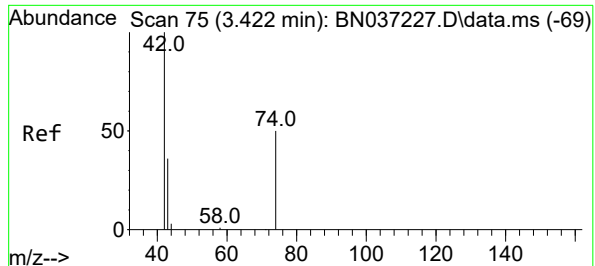
Tgt Ion:152 Resp: 1134
Ion Ratio Lower Upper
152 100
150 150.2 125.2 187.8
115 70.6 58.4 87.6



#2
1,4-Dioxane
Concen: 0.780 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 88 Resp: 1213
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 83.3 73.5 110.3

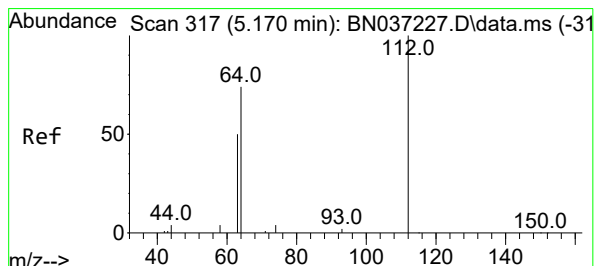
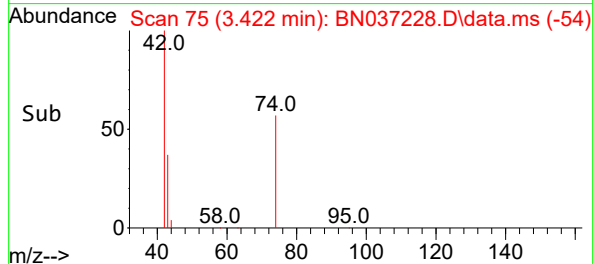
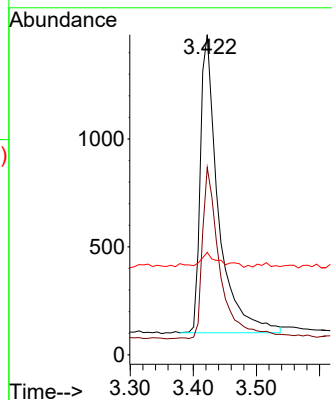
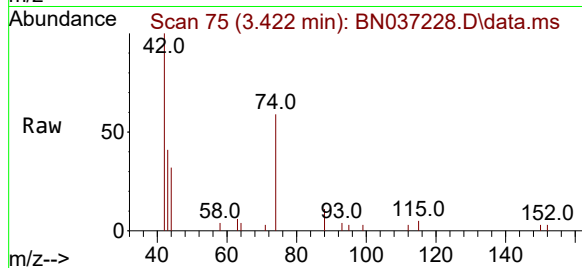




#3
n-Nitrosodimethylamine
Concen: 0.773 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

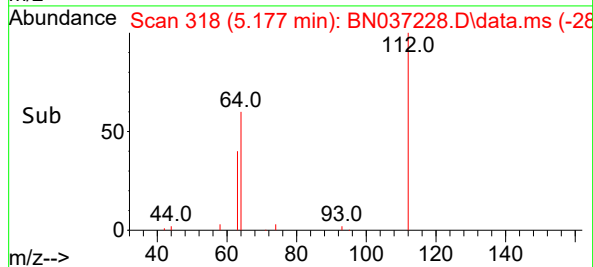
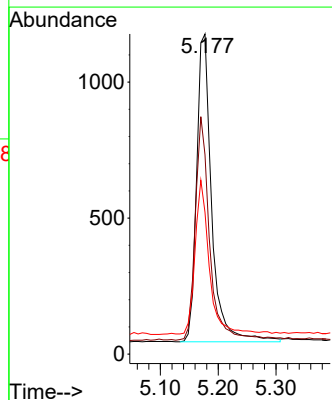
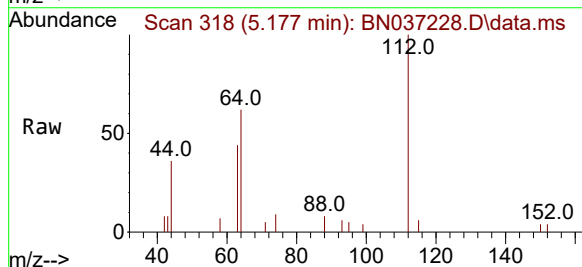
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

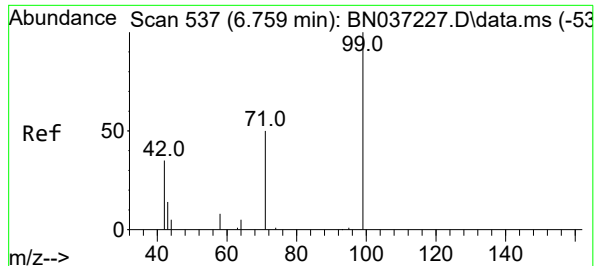
Tgt Ion: 42 Resp: 2739
Ion Ratio Lower Upper
42 100
74 56.8 44.6 66.8
44 4.9 3.5 5.3



#4
2-Fluorophenol
Concen: 0.739 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 112 Resp: 2057
Ion Ratio Lower Upper
112 100
64 70.2 57.2 85.8
63 46.4 39.8 59.6





#5

Phenol-d6

Concen: 0.762 ng

RT: 6.759 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

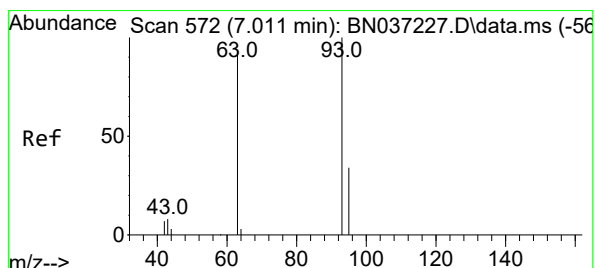
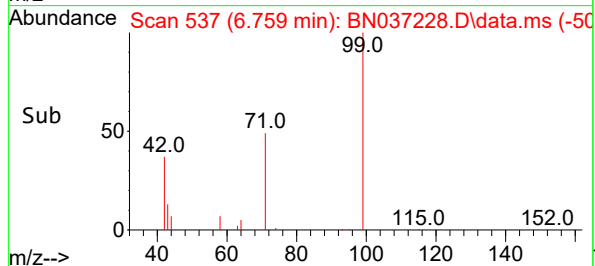
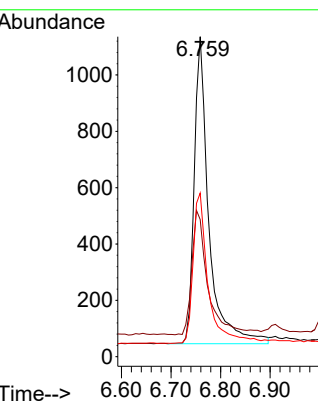
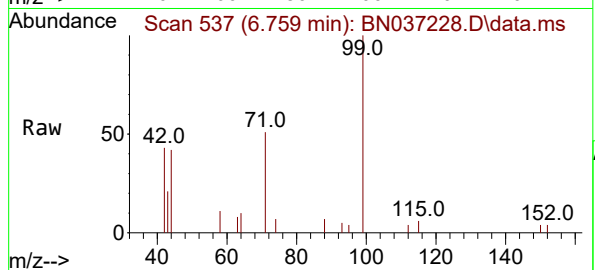
Tgt Ion: 99 Resp: 2237

Ion Ratio Lower Upper

99 100

42 43.8 36.2 54.4

71 50.7 42.4 63.6



#6

bis(2-Chloroethyl)ether

Concen: 0.823 ng

RT: 7.011 min Scan# 572

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

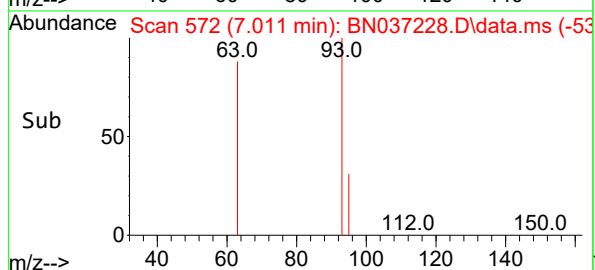
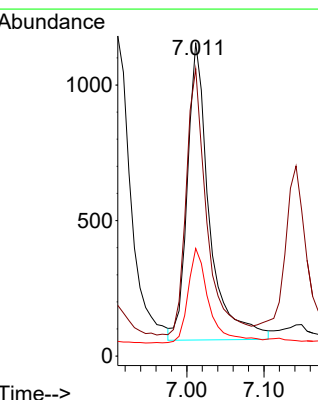
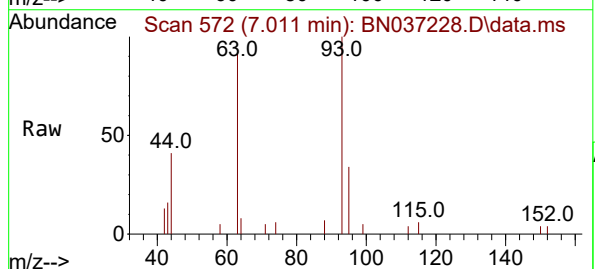
Tgt Ion: 93 Resp: 2165

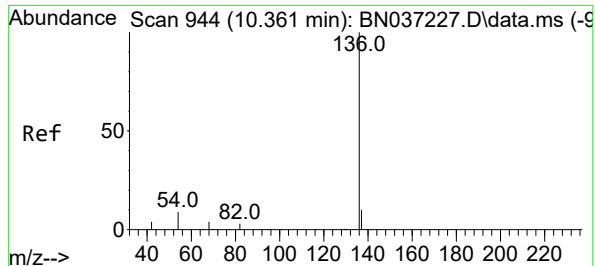
Ion Ratio Lower Upper

93 100

63 83.9 75.2 112.8

95 30.8 28.3 42.5

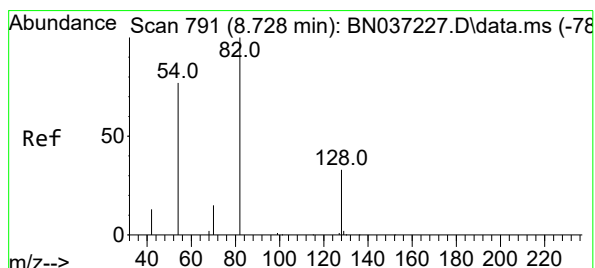
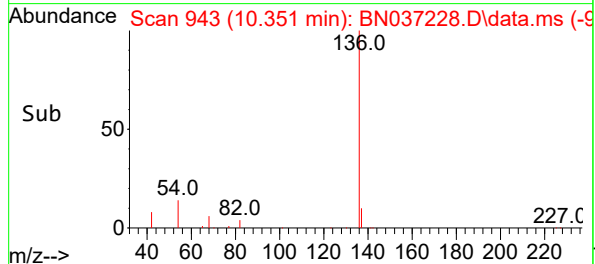
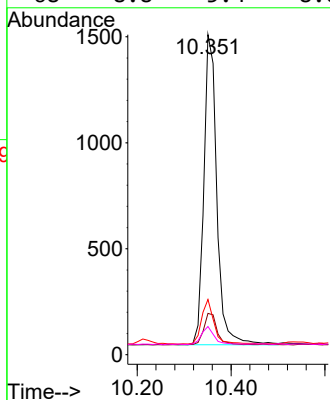
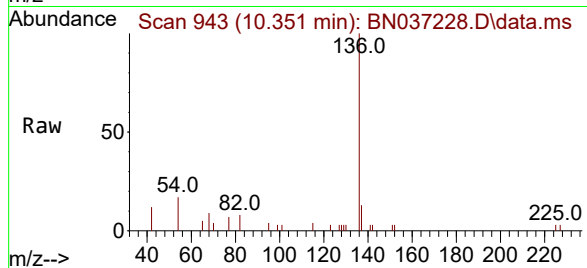




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

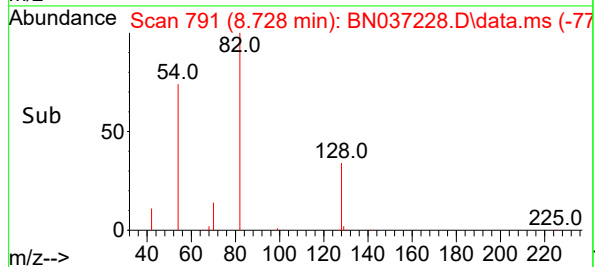
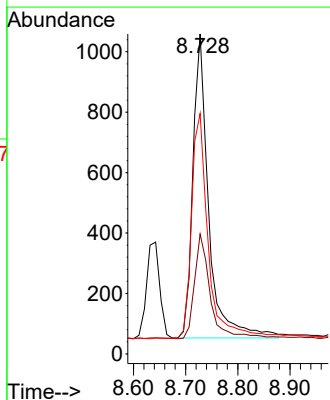
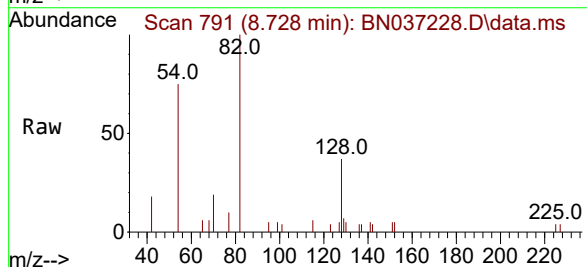
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

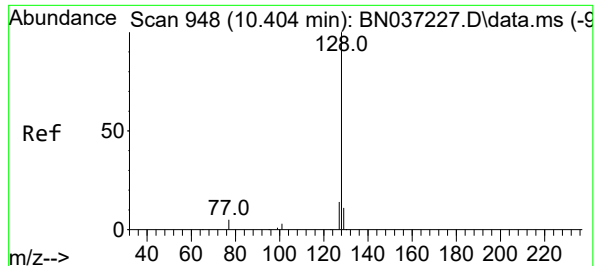
Tgt Ion:	136	Resp:	2810
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.6	15.8
54	17.3	9.2	13.8#
68	8.8	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.763 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:	82	Resp:	2118
Ion	Ratio	Lower	Upper
82	100		
128	37.5	31.2	46.8
54	75.2	63.3	94.9

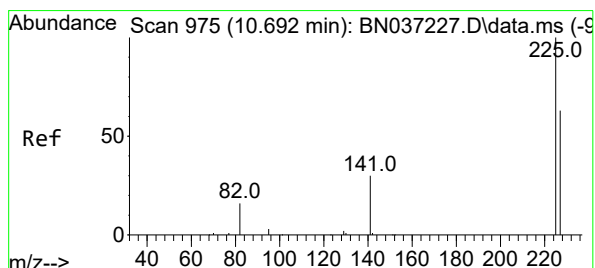
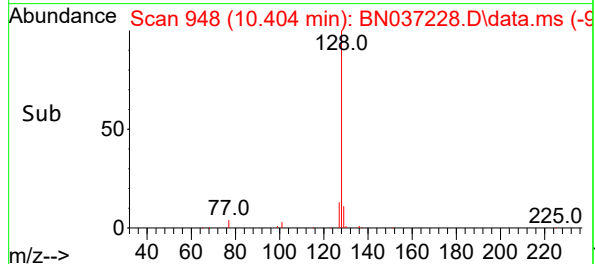
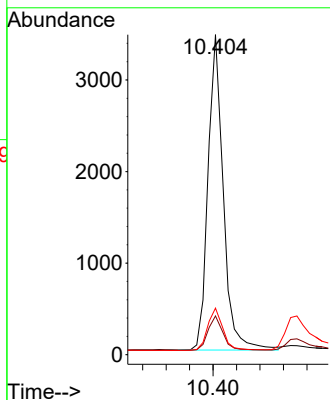
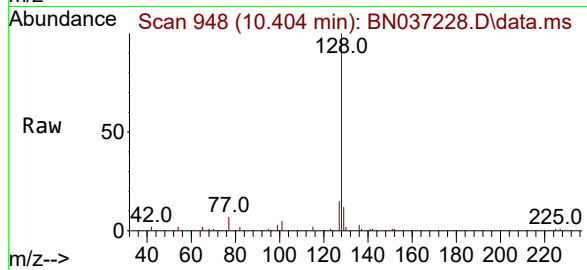




#9
Naphthalene
Concen: 0.766 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

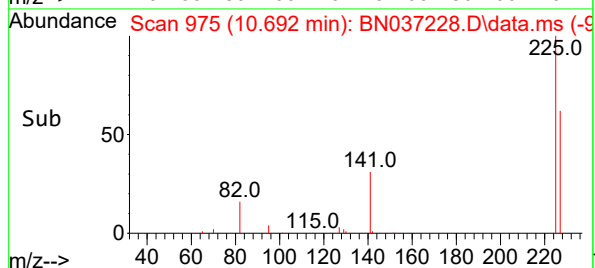
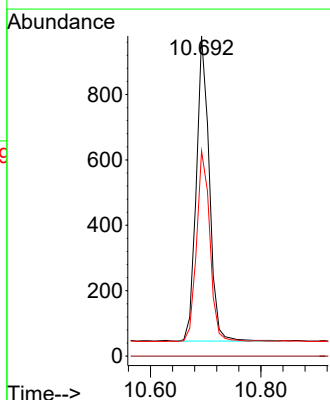
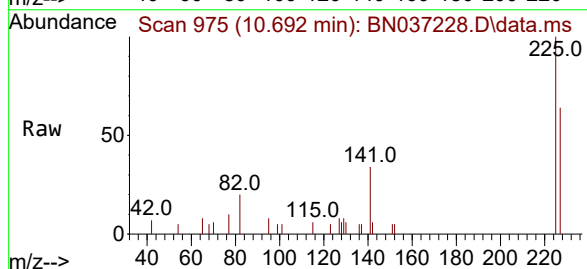
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

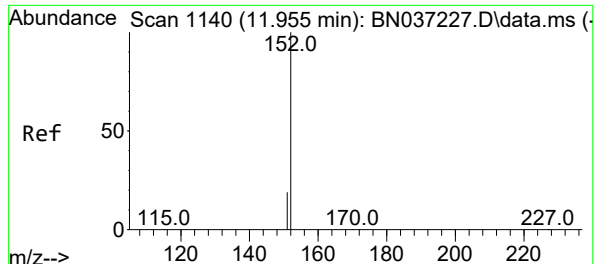
Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	10.7	16.1
127	14.5	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.769 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	49.2	73.8

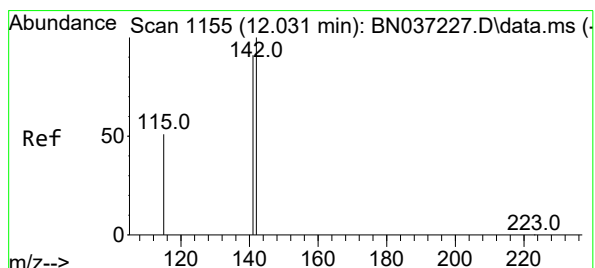
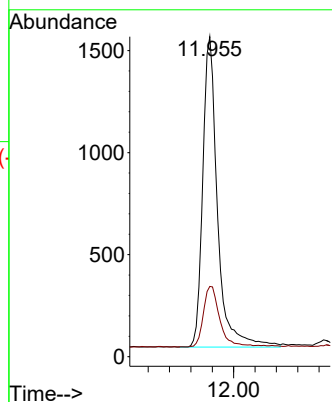
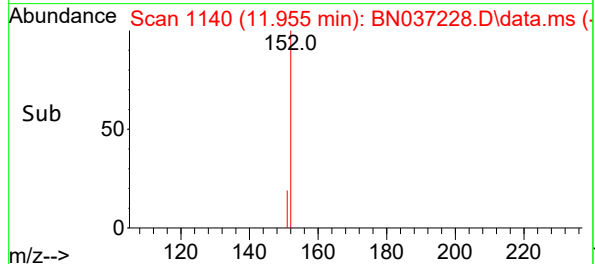
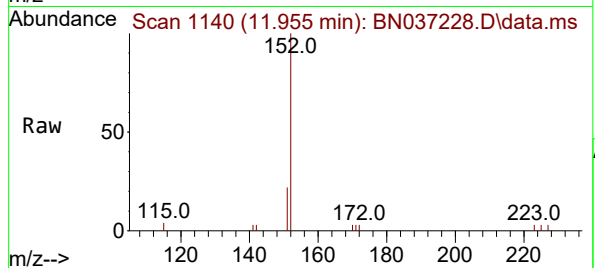




#11
2-Methylnaphthalene-d10
Concen: 0.775 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

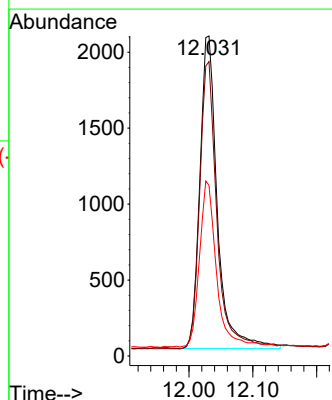
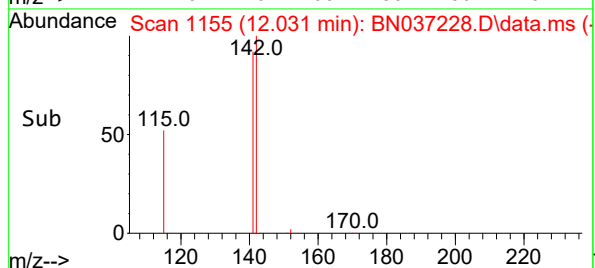
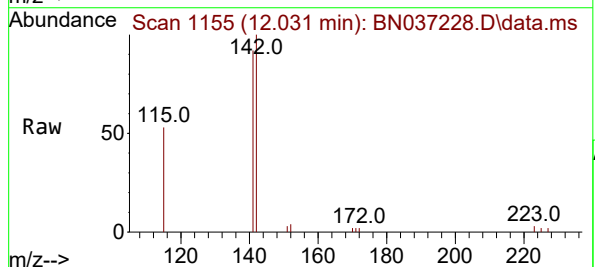
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

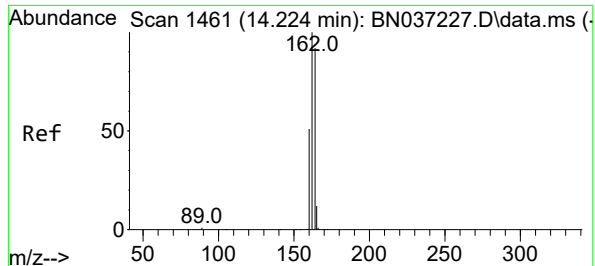
Tgt Ion:152 Resp: 2923
Ion Ratio Lower Upper
152 100
151 21.5 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.794 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:142 Resp: 3926
Ion Ratio Lower Upper
142 100
141 92.0 73.0 109.6
115 53.3 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

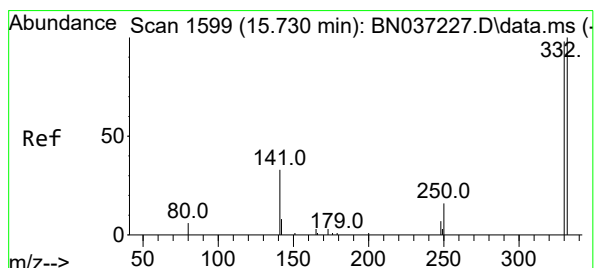
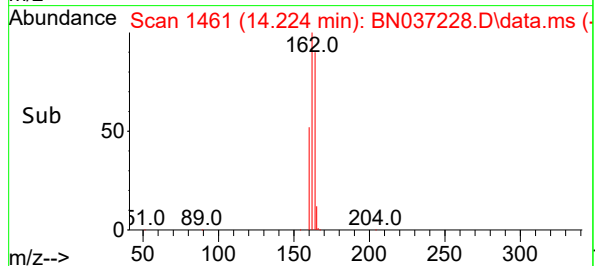
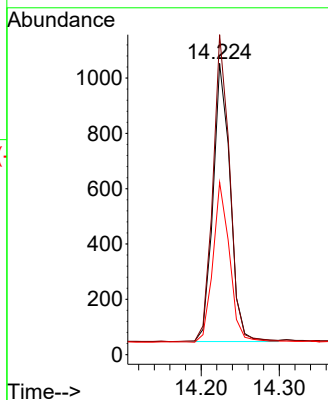
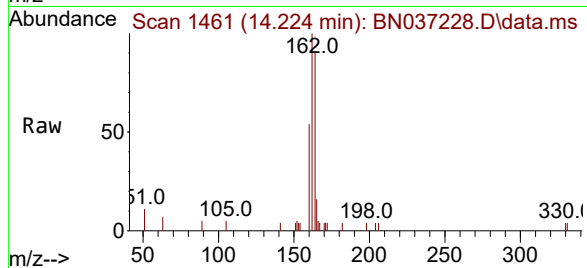
Tgt Ion:164 Resp: 1528

Ion Ratio Lower Upper

164 100

162 109.9 86.7 130.1

160 59.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.826 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

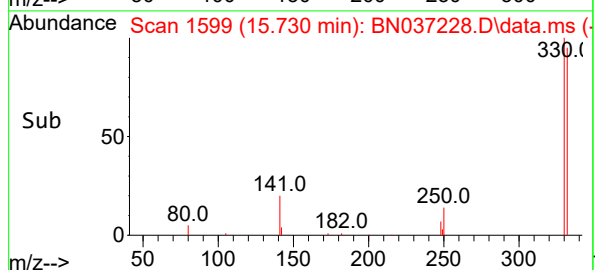
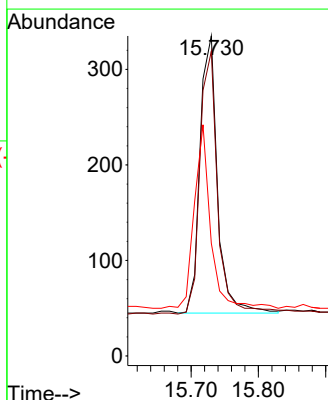
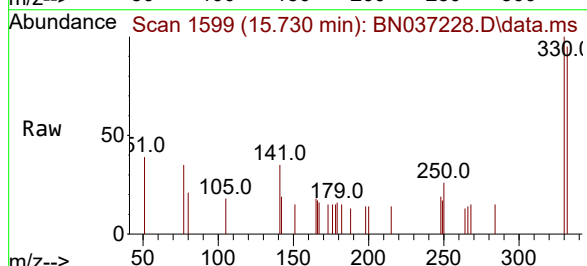
Tgt Ion:330 Resp: 524

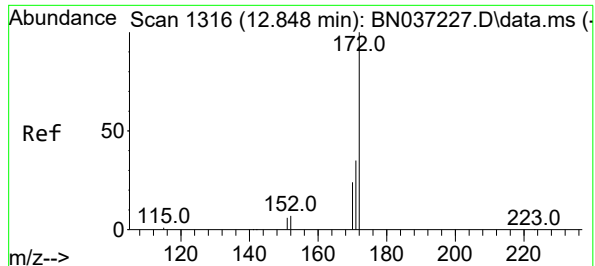
Ion Ratio Lower Upper

330 100

332 98.1 74.9 112.3

141 61.5 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.789 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

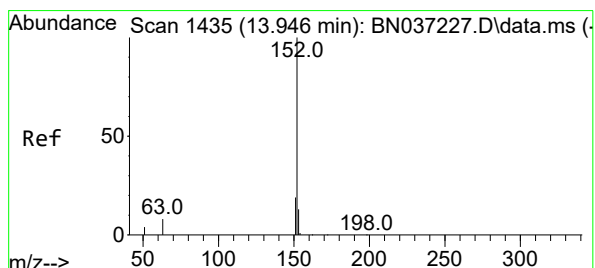
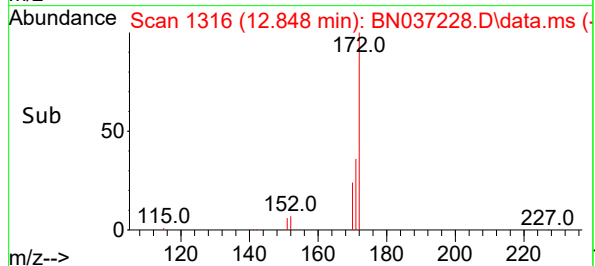
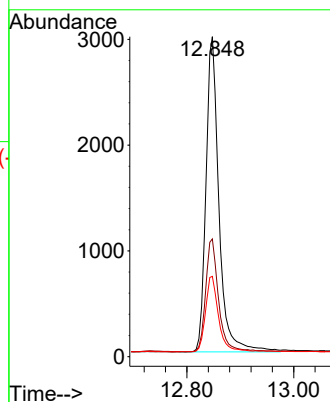
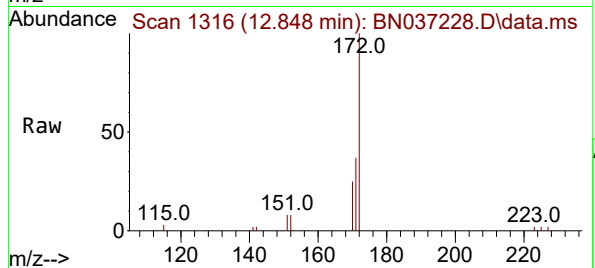
Tgt Ion:172 Resp: 5066

Ion Ratio Lower Upper

172 100

171 36.8 29.8 44.8

170 25.1 21.1 31.7



#16

Acenaphthylene

Concen: 0.781 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

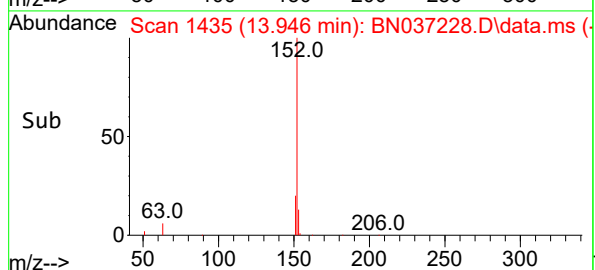
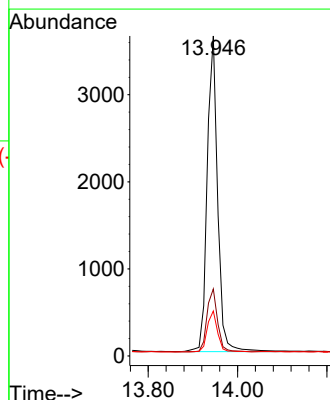
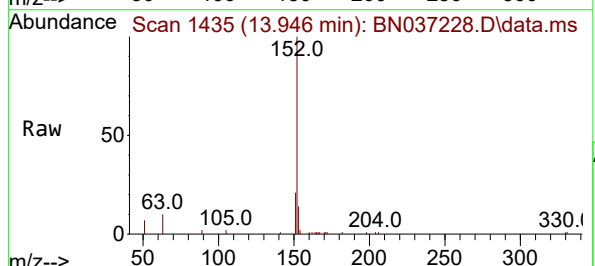
Tgt Ion:152 Resp: 5851

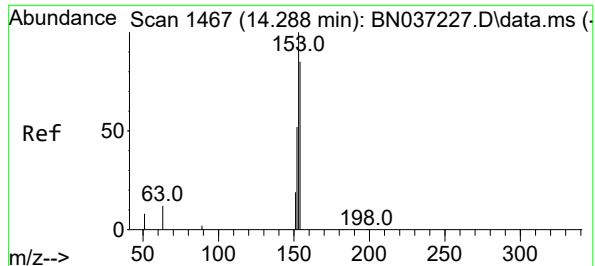
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 0.778 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

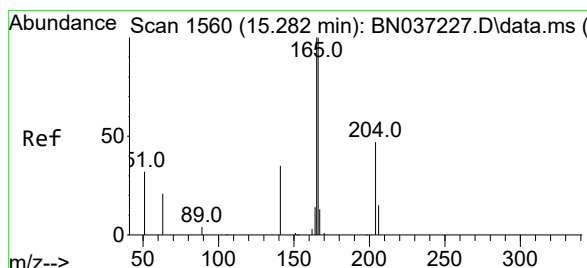
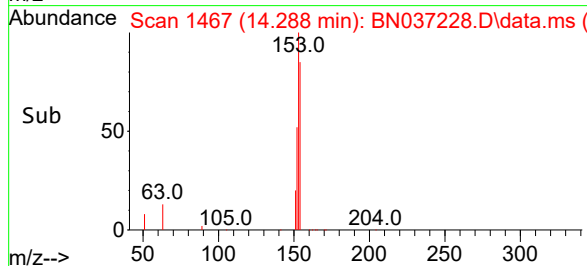
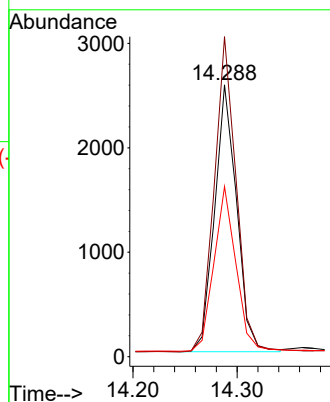
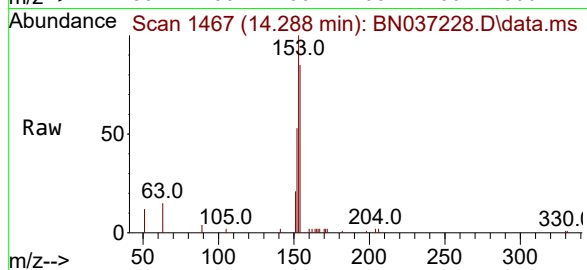
Tgt Ion:154 Resp: 3758

Ion Ratio Lower Upper

154 100

153 117.6 94.6 141.8

152 62.3 49.6 74.4



#18

Fluorene

Concen: 0.792 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

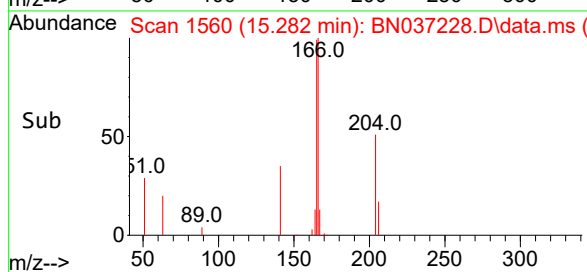
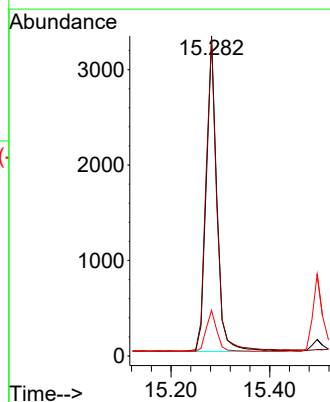
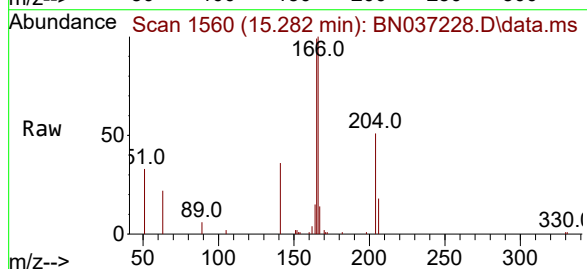
Tgt Ion:166 Resp: 4919

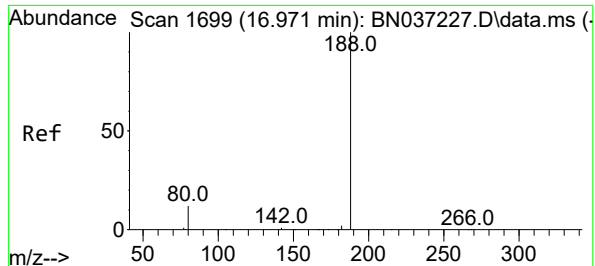
Ion Ratio Lower Upper

166 100

165 101.1 79.8 119.6

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

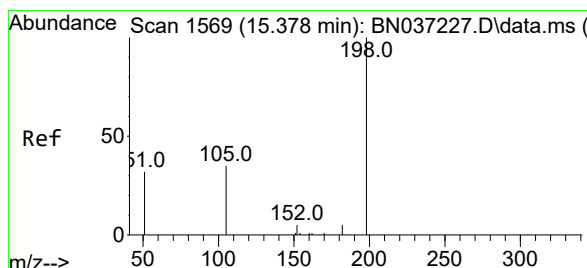
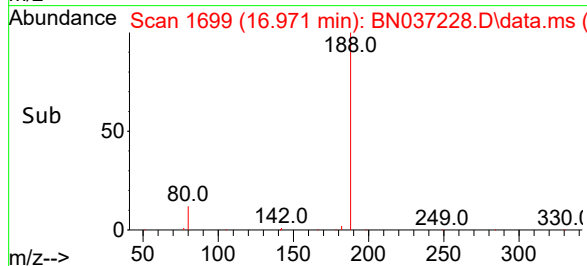
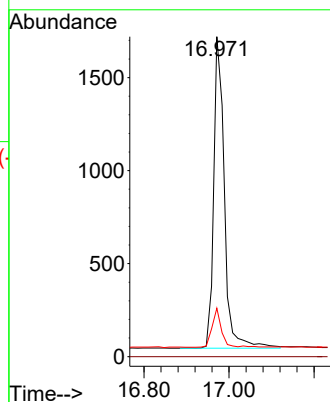
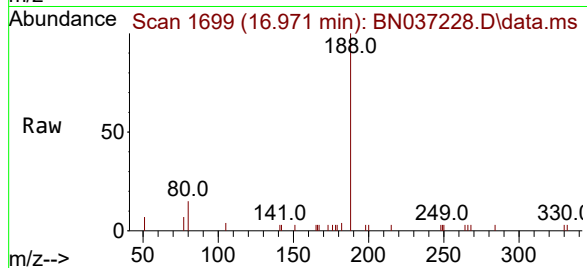
Tgt Ion:188 Resp: 2916

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.762 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

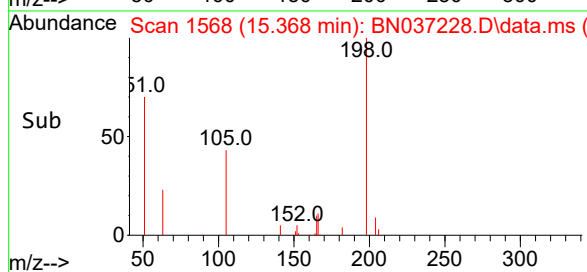
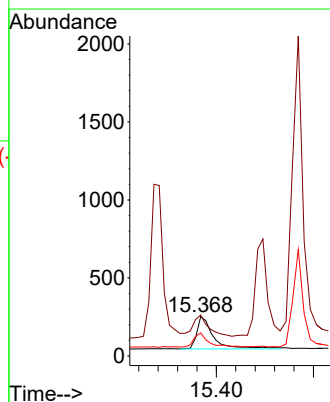
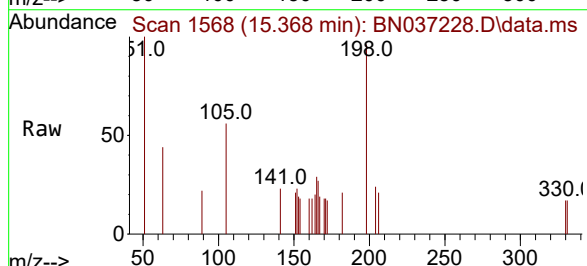
Tgt Ion:198 Resp: 499

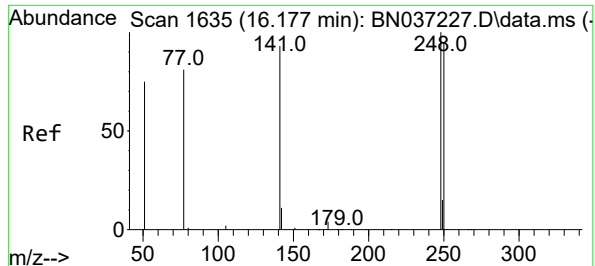
Ion Ratio Lower Upper

198 100

51 104.0 111.2 166.8#

105 58.3 54.0 81.0

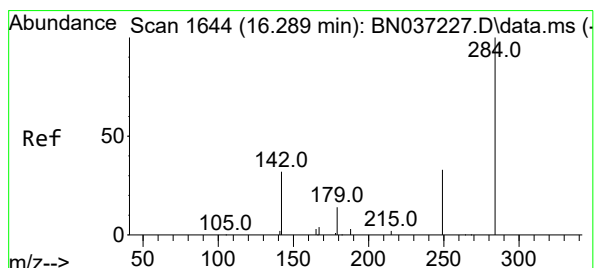
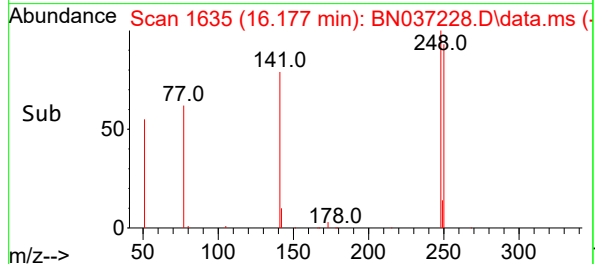
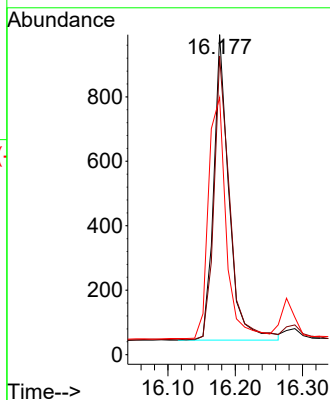
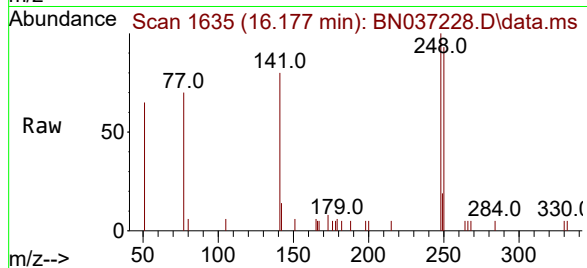




#21
4-Bromophenyl-phenylether
Concen: 0.786 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

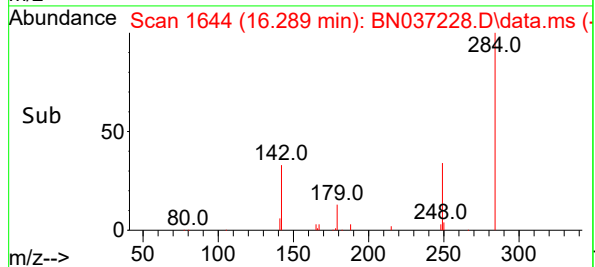
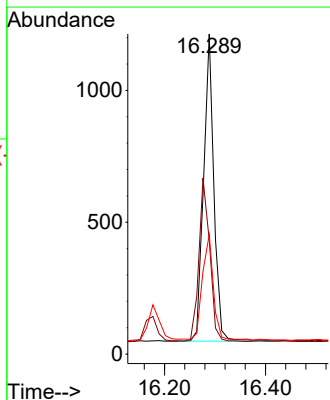
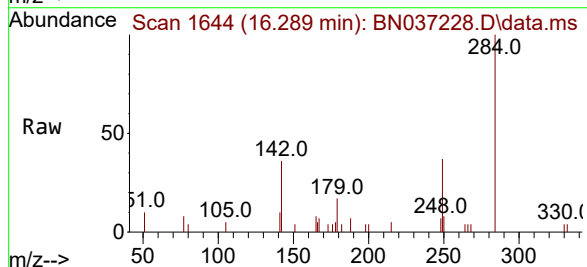
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

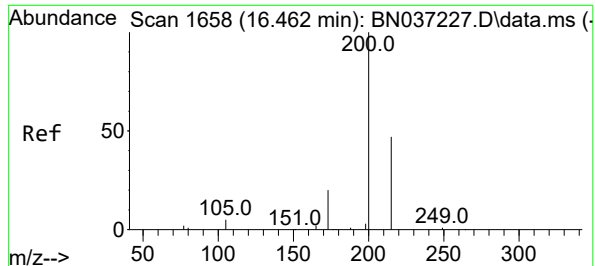
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.8	115.2
141	80.4	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.751 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion	Ratio	Lower	Upper
284	100		
142	56.3	43.8	65.6
249	37.4	28.4	42.6

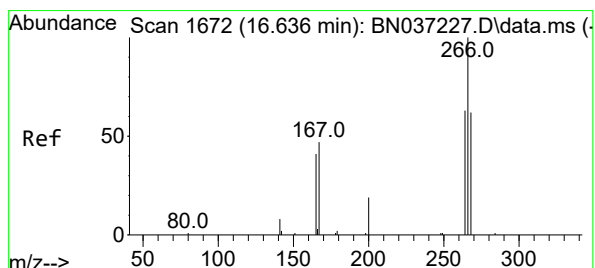
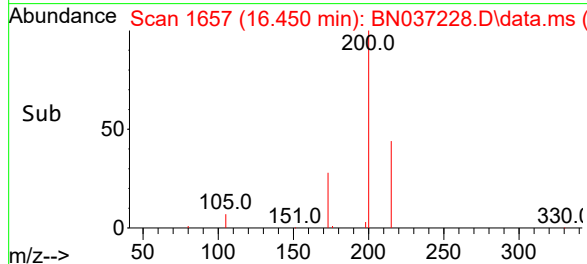
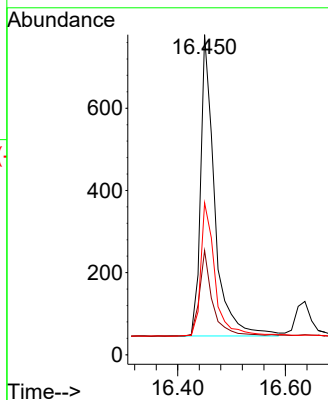
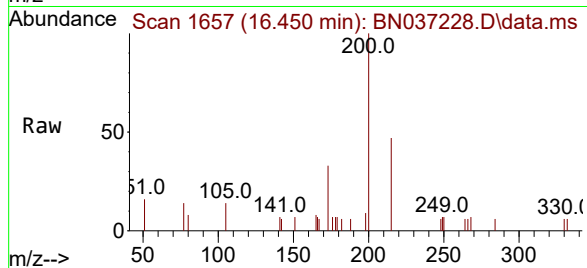




#23
Atrazine
Concen: 0.783 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

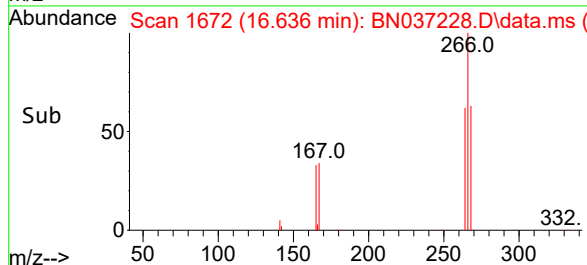
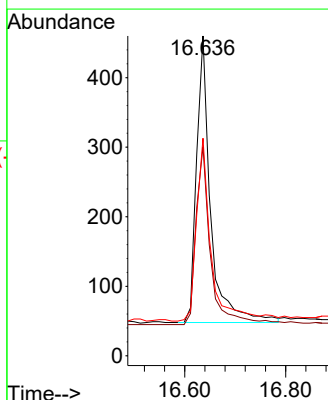
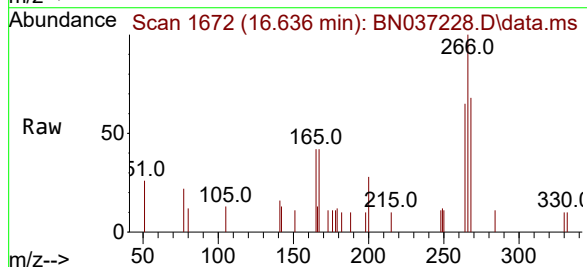
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

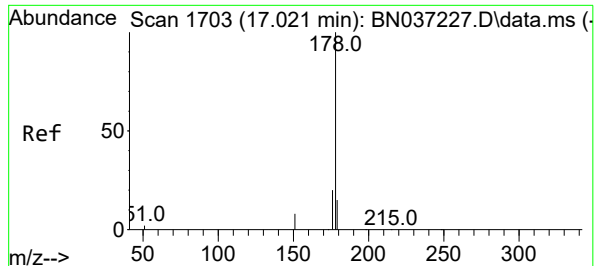
Tgt Ion:200 Resp: 1327
Ion Ratio Lower Upper
200 100
173 32.6 25.1 37.7
215 47.5 43.7 65.5



#24
Pentachlorophenol
Concen: 0.741 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:266 Resp: 800
Ion Ratio Lower Upper
266 100
264 63.2 49.2 73.8
268 66.6 53.4 80.2

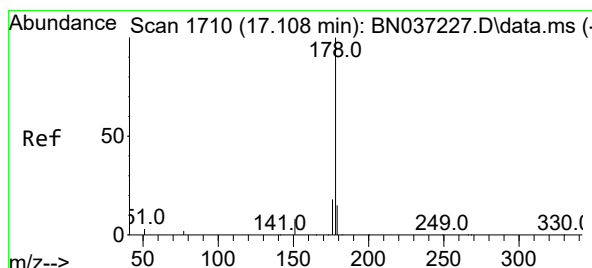
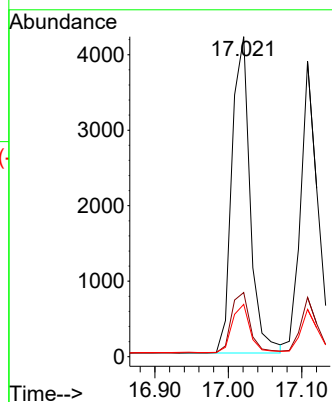
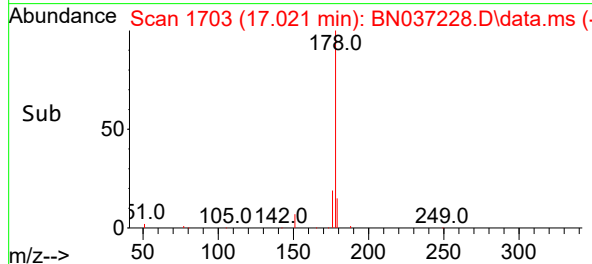
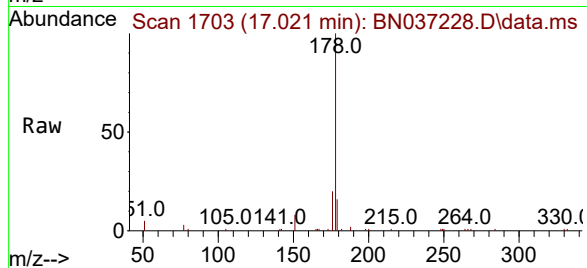




#25
Phenanthrene
Concen: 0.781 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

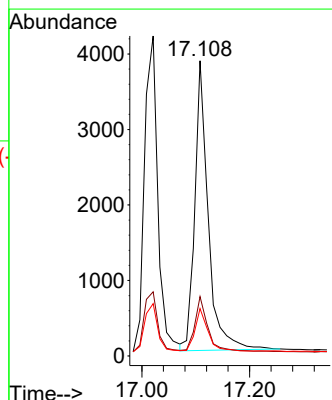
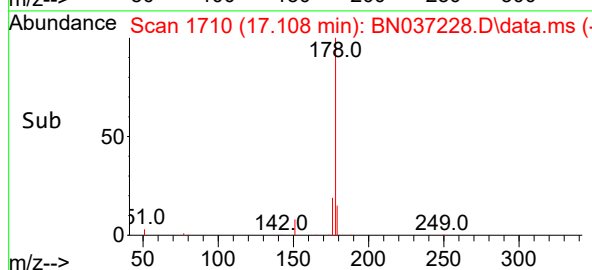
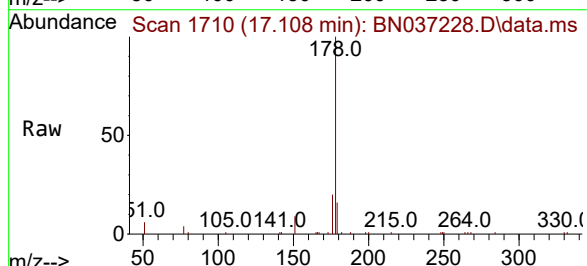
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

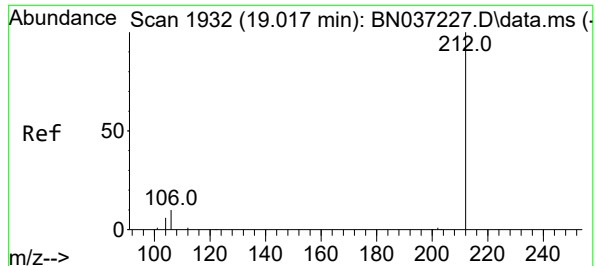
Tgt Ion:178 Resp: 7220
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 15.0 12.6 18.8



#26
Anthracene
Concen: 0.784 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:178 Resp: 6635
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 14.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.777 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

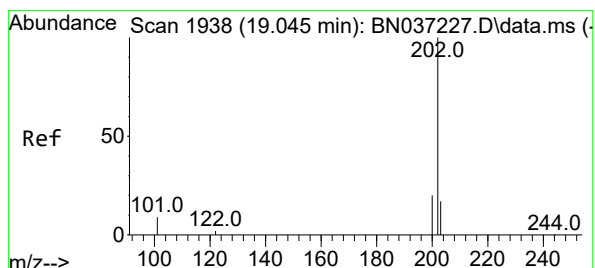
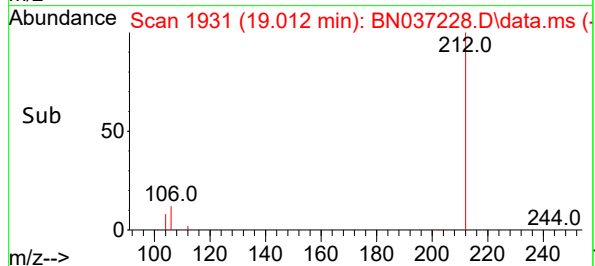
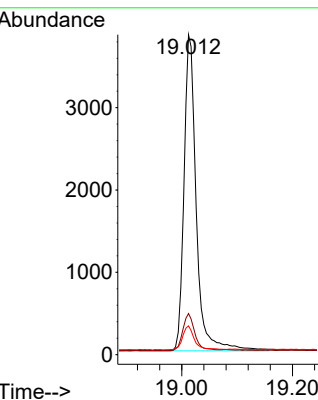
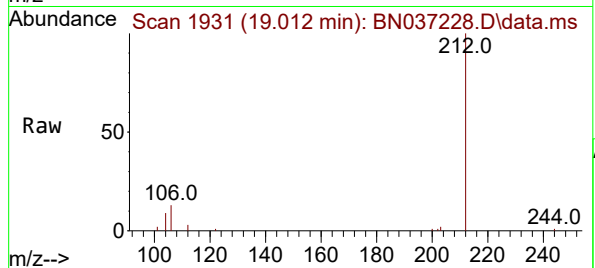
Tgt Ion:212 Resp: 5930

Ion Ratio Lower Upper

212 100

106 11.3 9.3 13.9

104 7.3 5.7 8.5



#28

Fluoranthene

Concen: 0.781 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

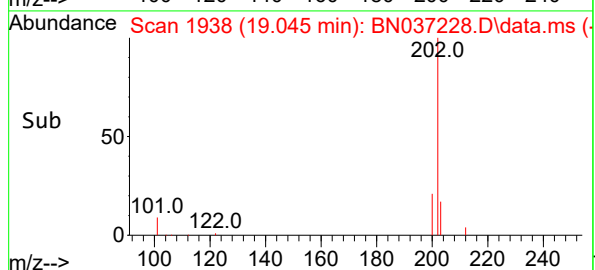
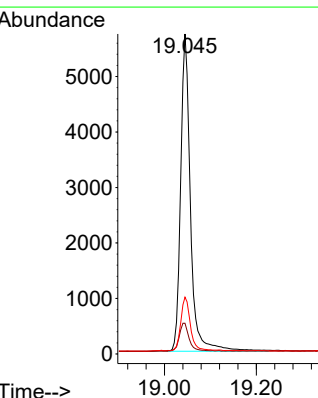
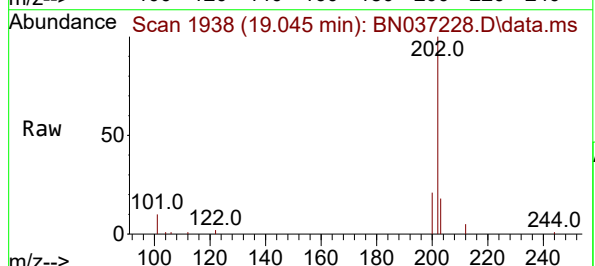
Tgt Ion:202 Resp: 8450

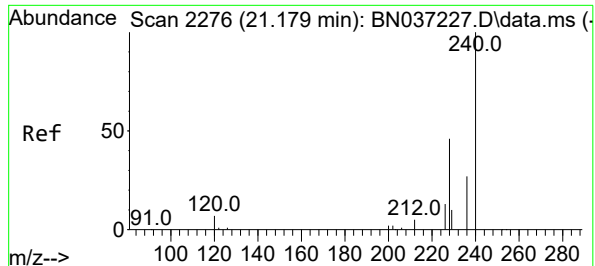
Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

203 16.6 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

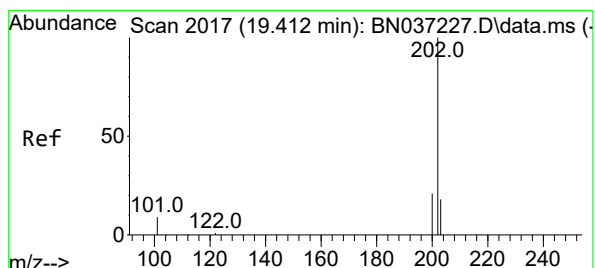
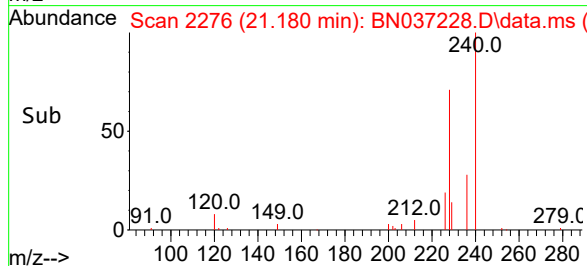
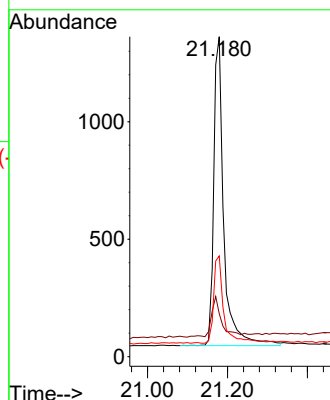
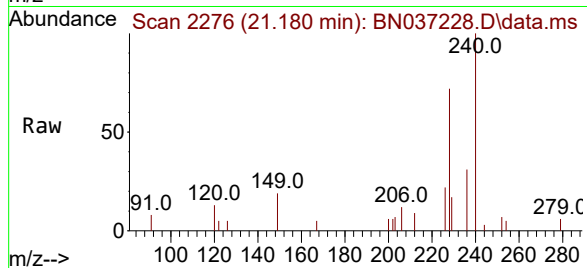
Tgt Ion:240 Resp: 2294

Ion Ratio Lower Upper

240 100

120 13.4 11.3 16.9

236 31.5 24.4 36.6



#30

Pyrene

Concen: 0.787 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

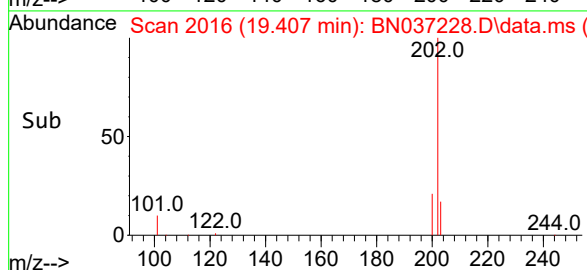
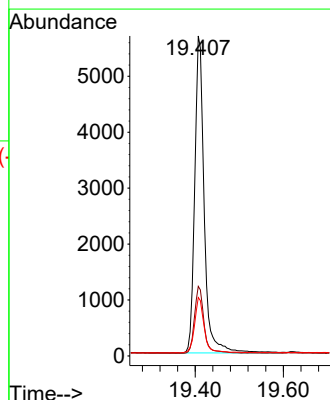
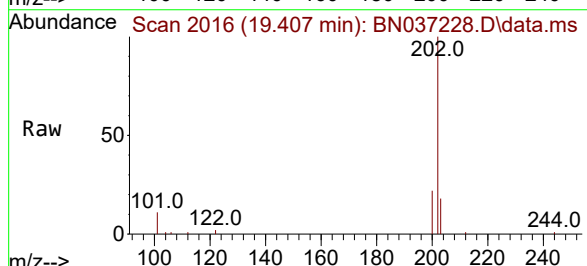
Tgt Ion:202 Resp: 8483

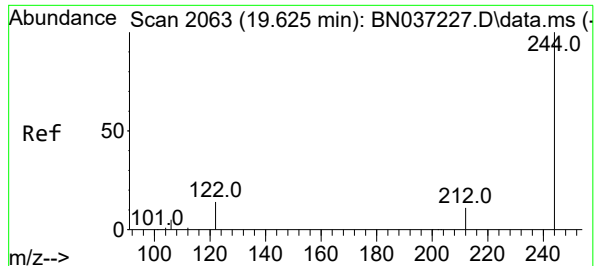
Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

203 17.4 14.3 21.5

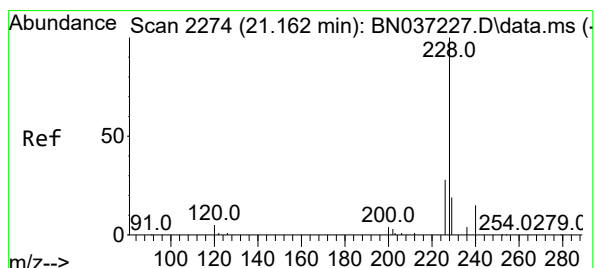
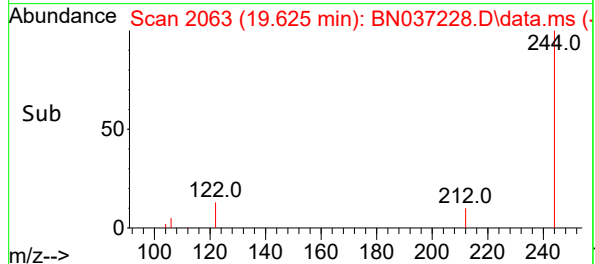
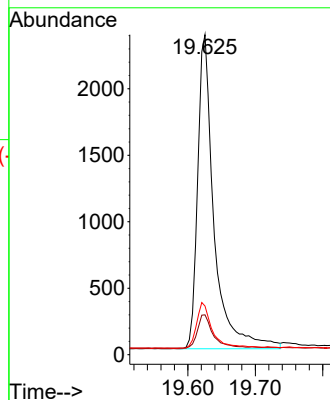
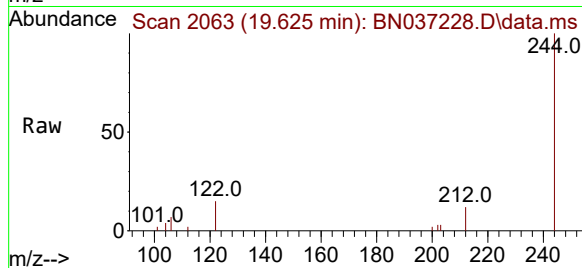




#31
Terphenyl-d14
Concen: 0.770 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

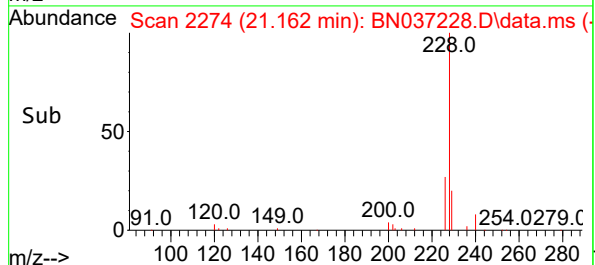
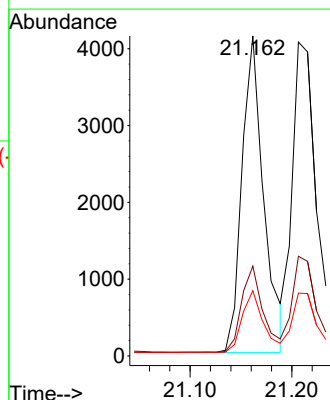
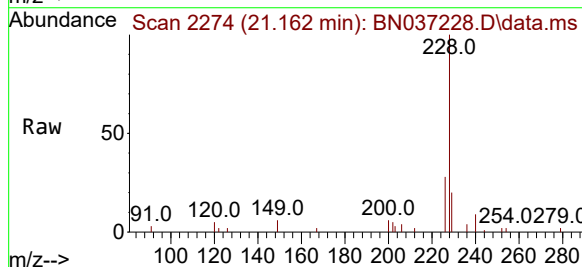
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

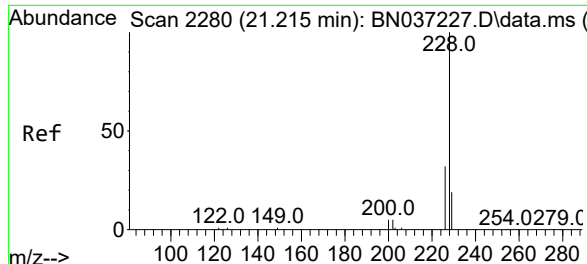
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.5	12.2	18.2
122	15.2	14.3	21.5



#32
Benzo(a)anthracene
Concen: 0.789 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	23.8	35.8
229	20.4	17.0	25.4





#33

Chrysene

Concen: 0.769 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

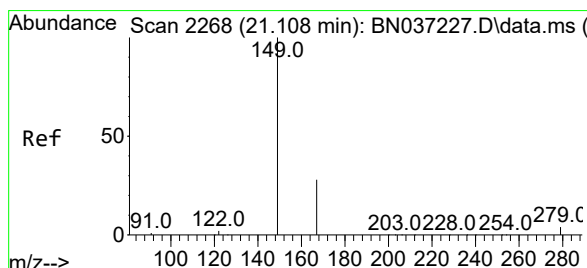
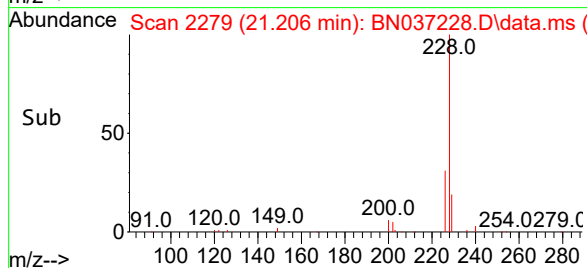
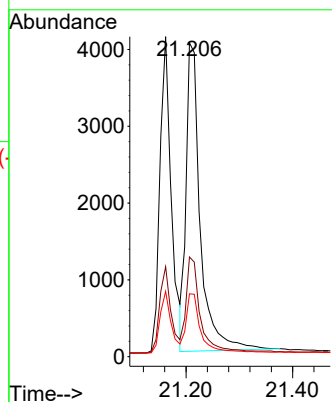
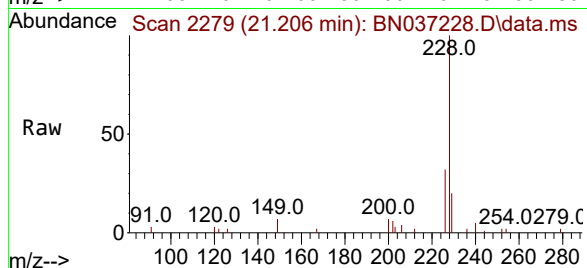
Tgt Ion:228 Resp: 7421

Ion Ratio Lower Upper

228 100

226 31.8 25.8 38.6

229 20.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.796 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

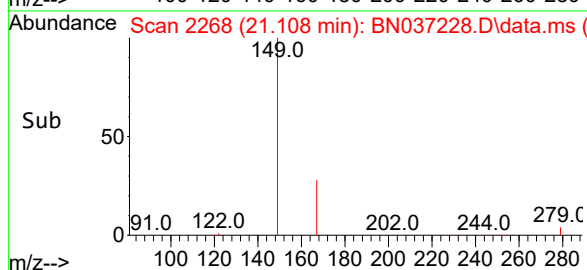
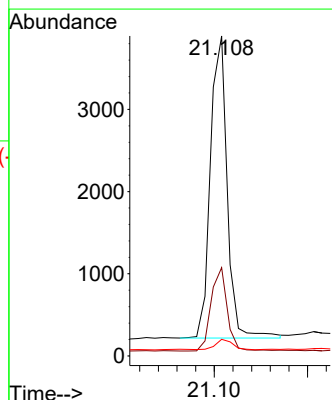
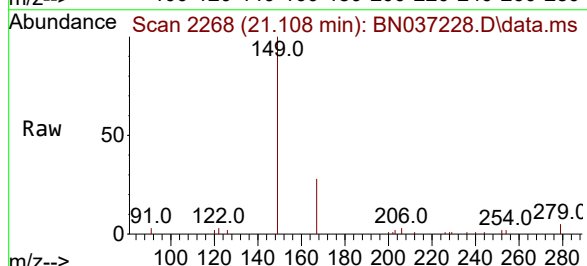
Tgt Ion:149 Resp: 4590

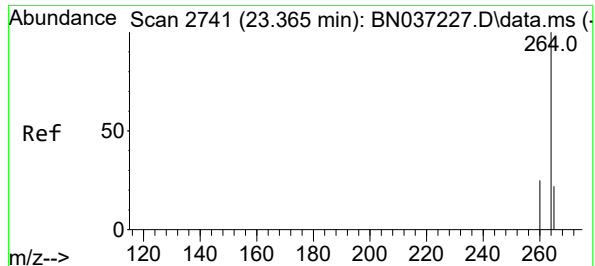
Ion Ratio Lower Upper

149 100

167 26.5 21.3 31.9

279 3.4 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037228.D

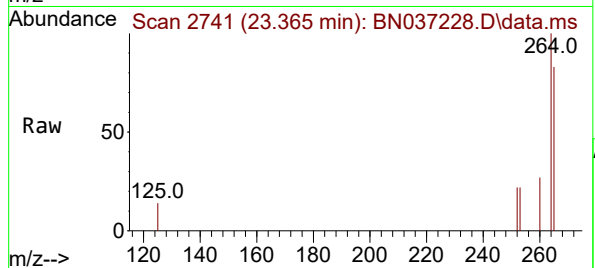
Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



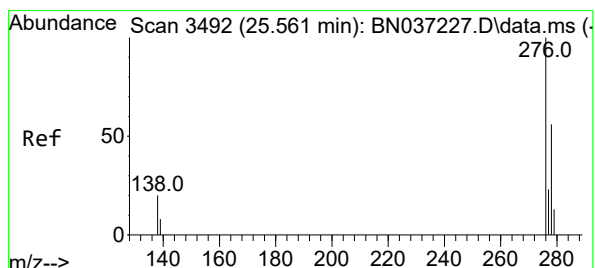
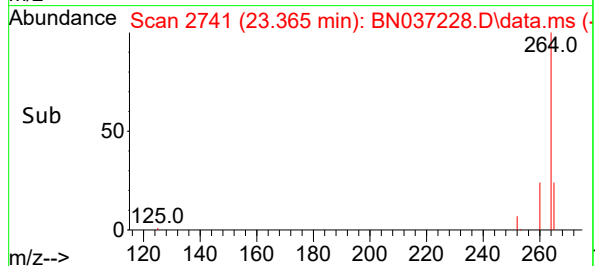
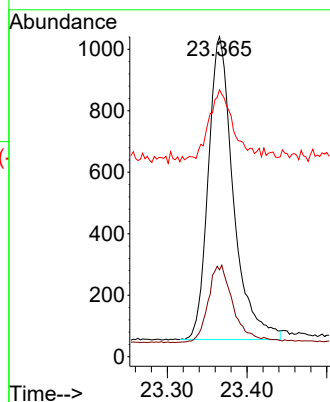
Tgt Ion:264 Resp: 2157

Ion Ratio Lower Upper

264 100

260 27.2 22.8 34.2

265 83.4 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.737 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

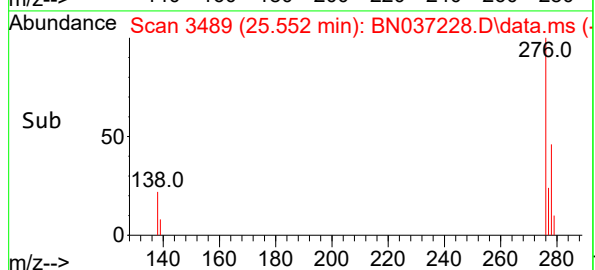
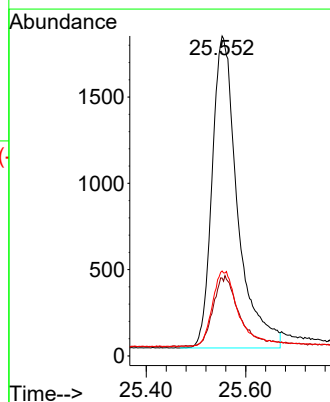
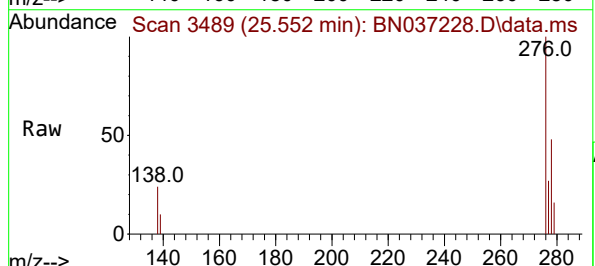
Tgt Ion:276 Resp: 6412

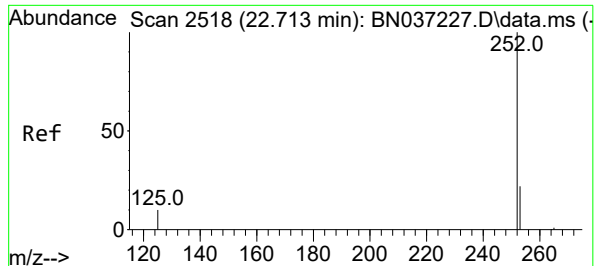
Ion Ratio Lower Upper

276 100

138 9.5 16.8 25.2#

277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.796 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

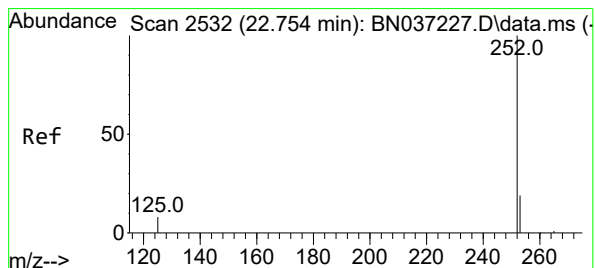
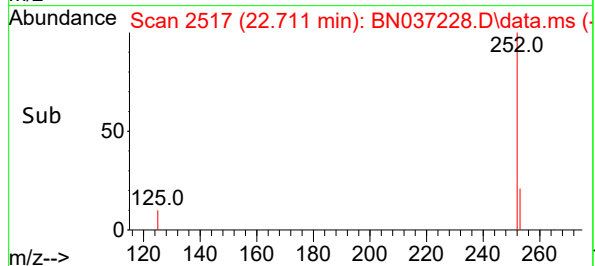
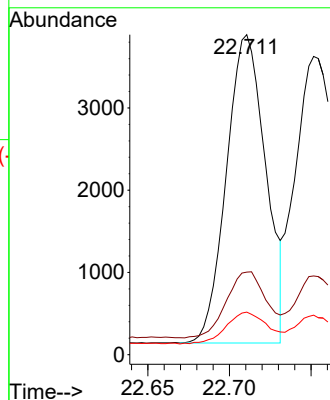
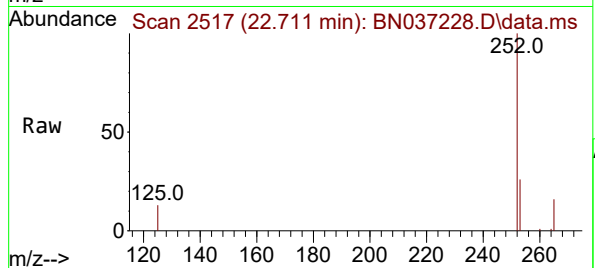
Tgt Ion:252 Resp: 6280

Ion Ratio Lower Upper

252 100

253 25.8 24.9 37.3

125 13.3 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.795 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

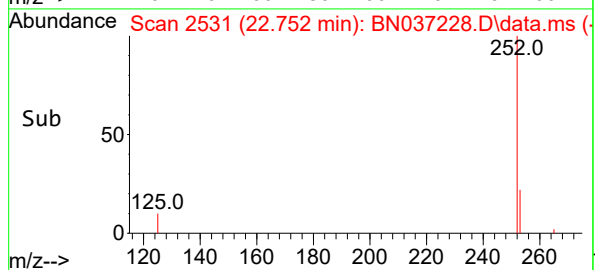
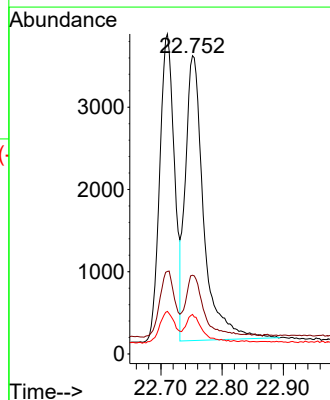
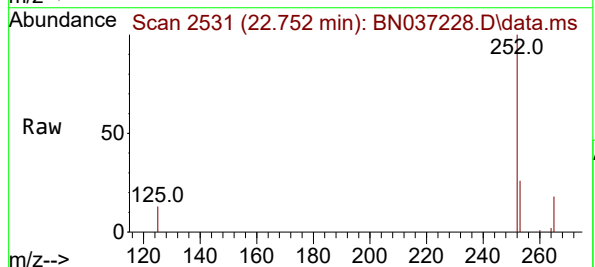
Tgt Ion:252 Resp: 7192

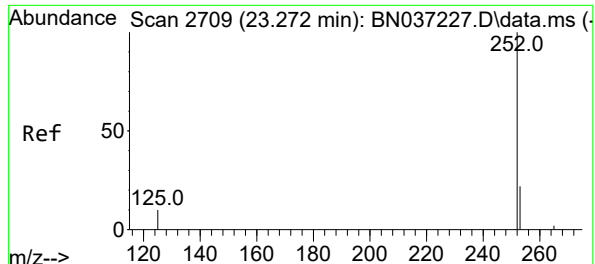
Ion Ratio Lower Upper

252 100

253 26.4 24.6 37.0

125 13.3 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.789 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

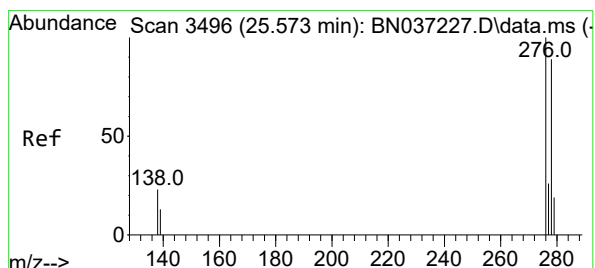
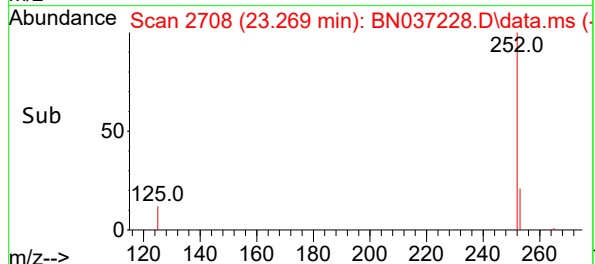
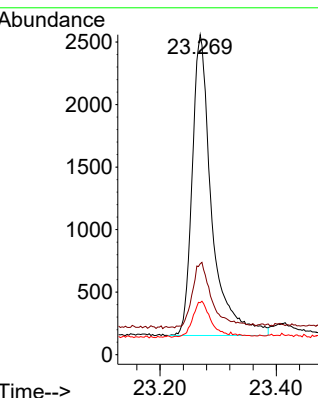
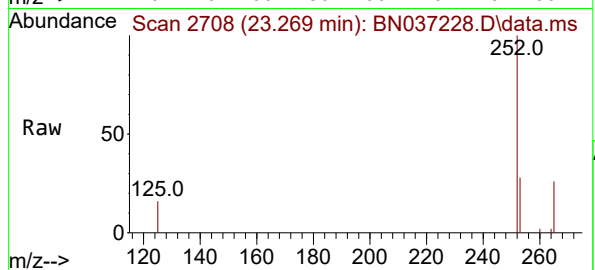
Tgt Ion:252 Resp: 5598

Ion Ratio Lower Upper

252 100

253 28.4 29.4 44.2#

125 16.3 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.736 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

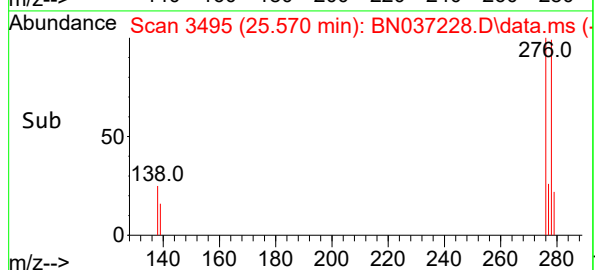
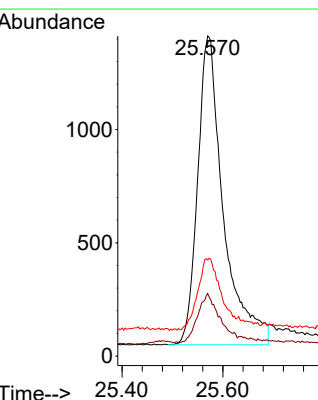
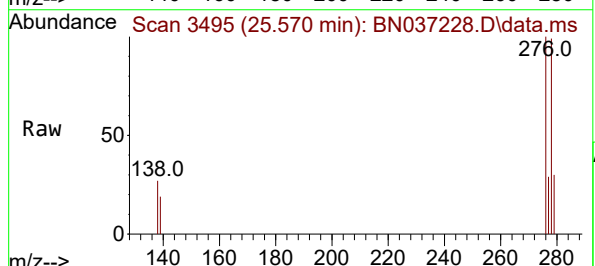
Tgt Ion:278 Resp: 4824

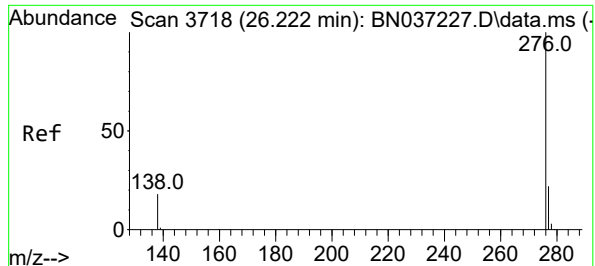
Ion Ratio Lower Upper

278 100

139 19.5 17.8 26.6

279 30.0 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 0.741 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037228.D

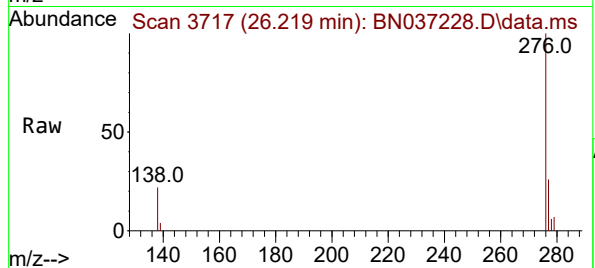
Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



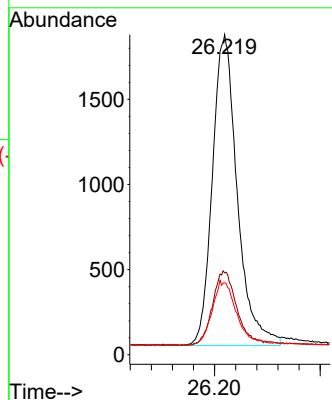
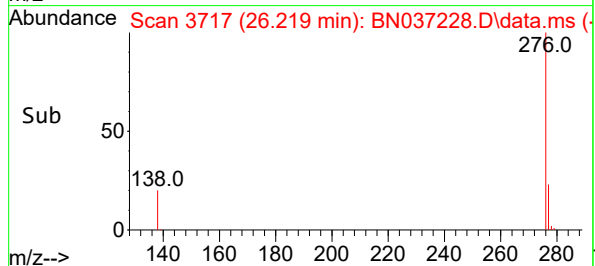
Tgt Ion:276 Resp: 5978

Ion Ratio Lower Upper

276 100

277 25.6 22.0 33.0

138 22.4 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037229.D
 Acq On : 13 Jun 2025 15:59
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

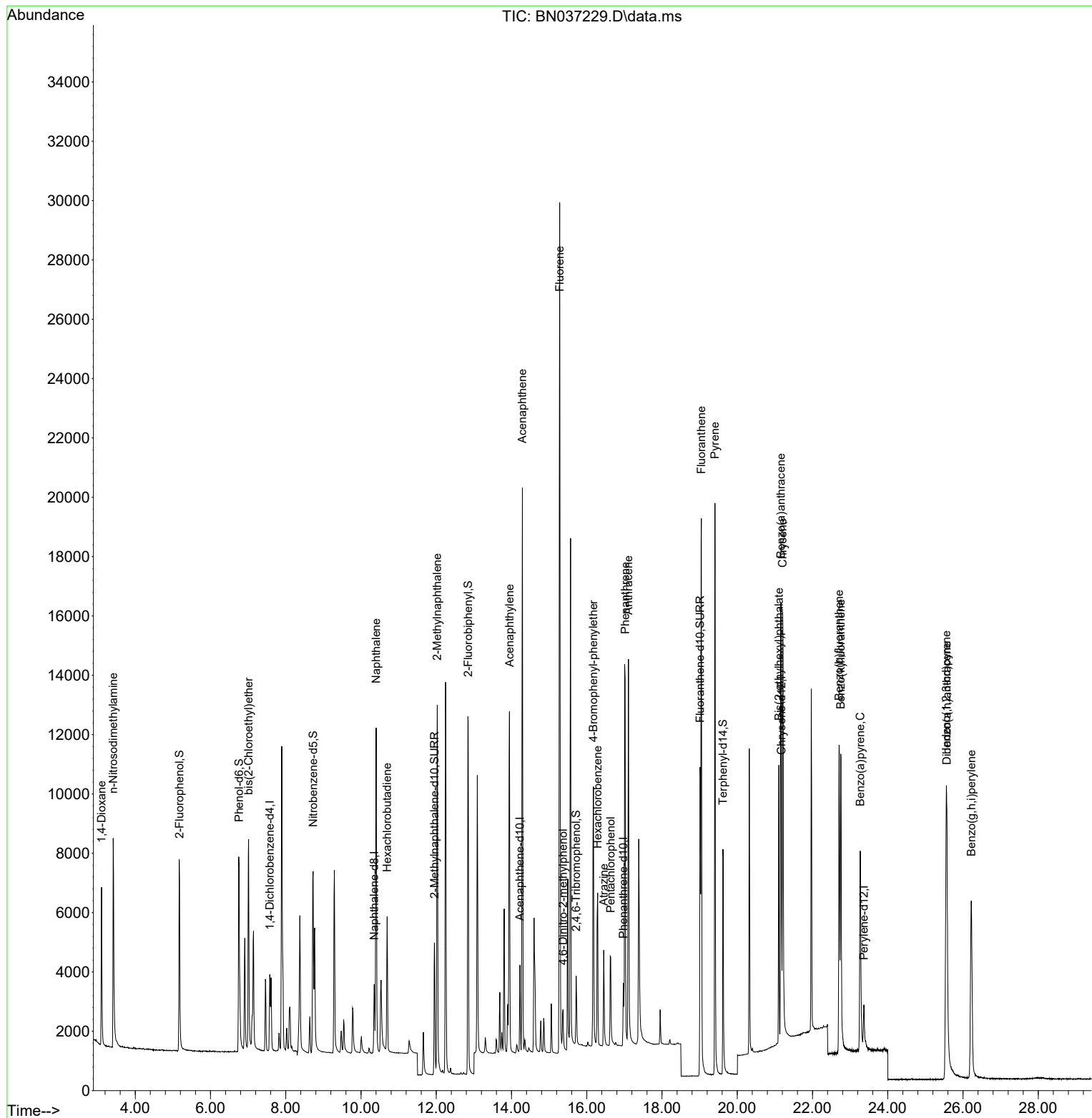
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1193	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2881	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1539	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2917	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2167	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	2036	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	4755	1.623	ng	0.00
5) Phenol-d6	6.759	99	5480	1.774	ng	0.00
8) Nitrobenzene-d5	8.728	82	5073	1.782	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	6642	1.718	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	1157	1.810	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	11216	1.734	ng	0.00
27) Fluoranthene-d10	19.012	212	12285	1.610	ng	0.00
31) Terphenyl-d14	19.621	244	8579	1.751	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	2620	1.601	ng	Qvalue 93
3) n-Nitrosodimethylamine	3.415	42	6179	1.657	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	5181	1.873	ng	92
9) Naphthalene	10.404	128	13925	1.669	ng	96
10) Hexachlorobutadiene	10.693	225	3281	1.617	ng	# 96
12) 2-Methylnaphthalene	12.026	142	8865	1.748	ng	99
16) Acenaphthylene	13.946	152	12787	1.696	ng	99
17) Acenaphthene	14.288	154	8258	1.696	ng	99
18) Fluorene	15.282	166	10814	1.730	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	1171	1.596	ng	# 47
21) 4-Bromophenyl-phenylether	16.177	248	3248	1.709	ng	# 85
22) Hexachlorobenzene	16.289	284	3460	1.570	ng	98
23) Atrazine	16.450	200	2809	1.657	ng	90
24) Pentachlorophenol	16.636	266	1800	1.667	ng	97
25) Phenanthrene	17.021	178	15448	1.670	ng	99
26) Anthracene	17.108	178	14243	1.682	ng	100
28) Fluoranthene	19.045	202	17611	1.626	ng	99
30) Pyrene	19.407	202	17479	1.716	ng	100
32) Benzo(a)anthracene	21.162	228	13105	1.791	ng	97
33) Chrysene	21.207	228	14835	1.627	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	8716	1.599	ng	99
36) Indeno(1,2,3-cd)pyrene	25.555	276	13992	1.704	ng	97
37) Benzo(b)fluoranthene	22.708	252	13177	1.769	ng	# 87
38) Benzo(k)fluoranthene	22.752	252	14311	1.675	ng	# 88
39) Benzo(a)pyrene	23.269	252	11458	1.710	ng	# 81
40) Dibenzo(a,h)anthracene	25.570	278	11091	1.793	ng	# 83
41) Benzo(g,h,i)perylene	26.219	276	12677	1.665	ng	95

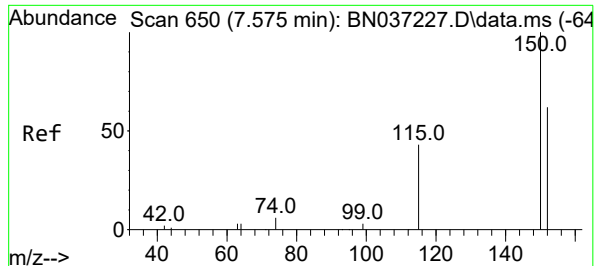
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037229.D
Acq On : 13 Jun 2025 15:59
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

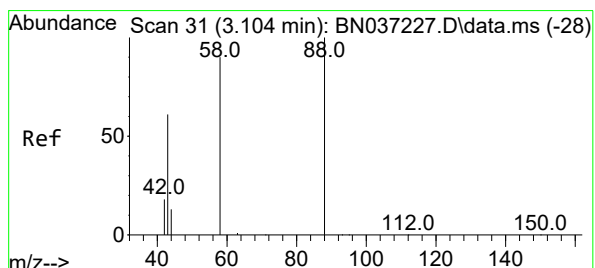
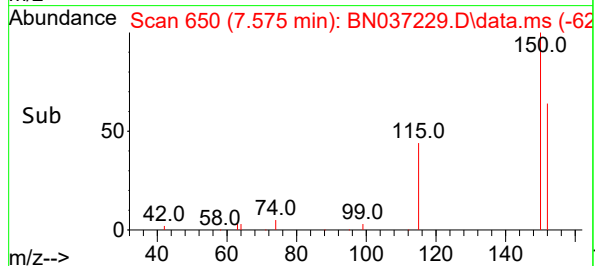
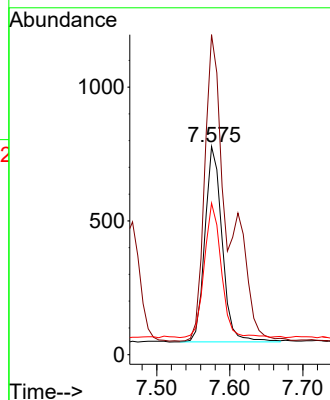
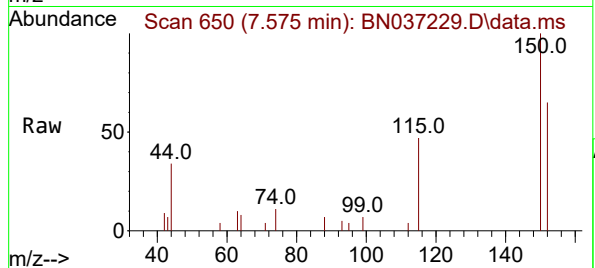




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

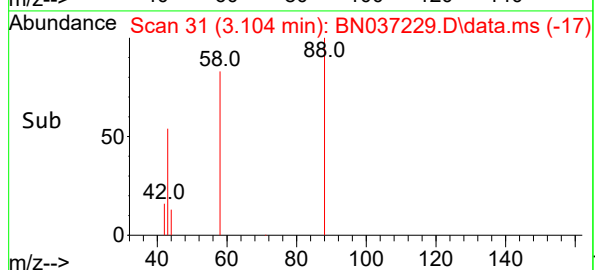
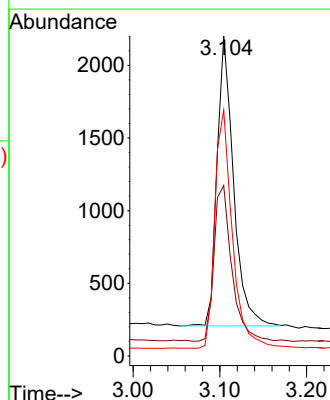
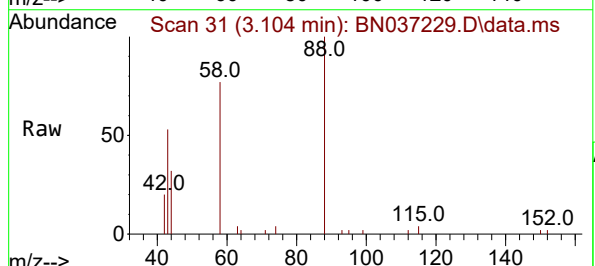
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

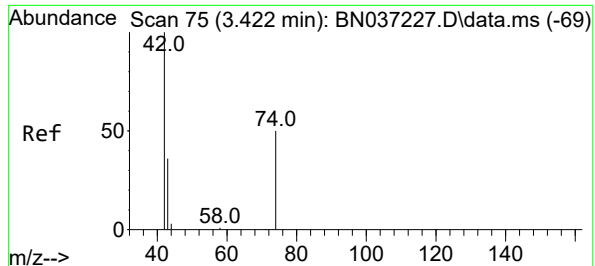
Tgt Ion:152 Resp: 1193
Ion Ratio Lower Upper
152 100
150 153.7 125.2 187.8
115 72.8 58.4 87.6



#2
1,4-Dioxane
Concen: 1.601 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 88 Resp: 2620
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 87.4 73.5 110.3

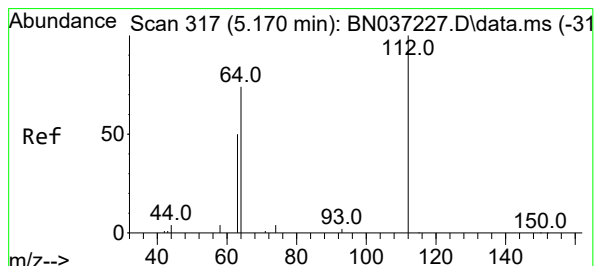
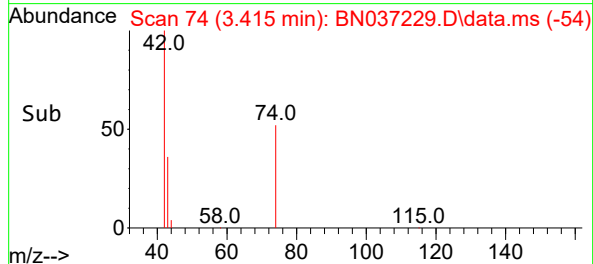
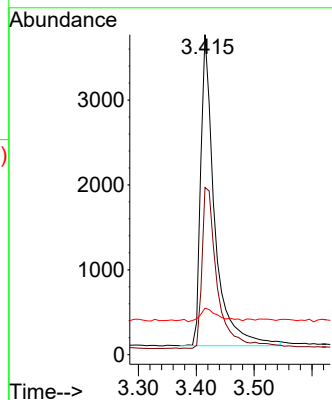
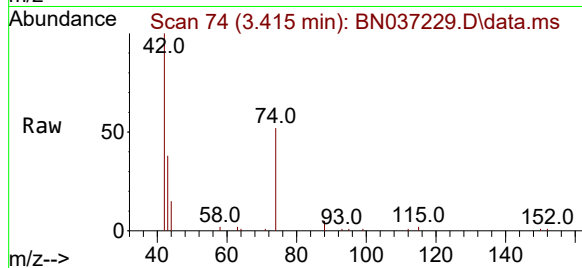




#3
n-Nitrosodimethylamine
Concen: 1.657 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

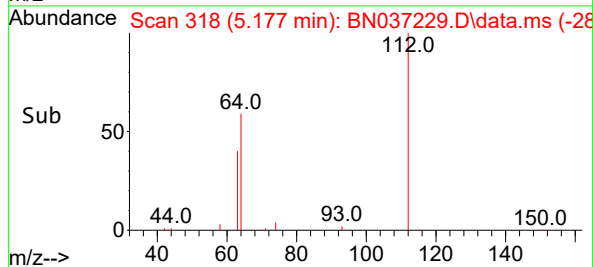
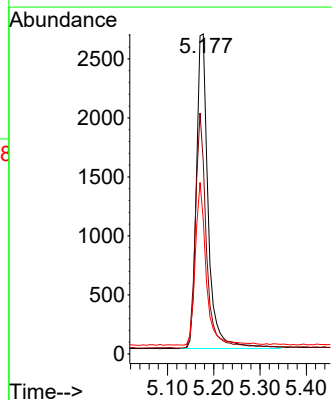
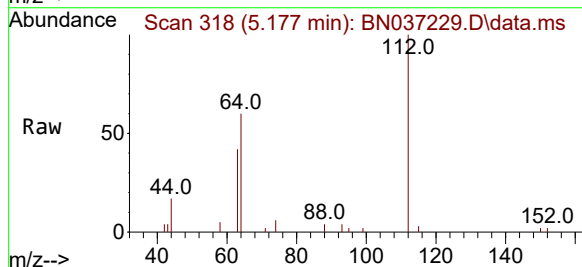
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

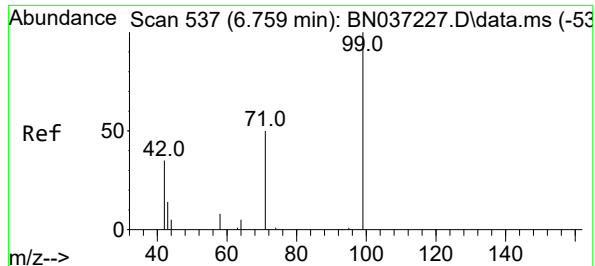
Tgt Ion: 42 Resp: 6179
Ion Ratio Lower Upper
42 100
74 57.5 44.6 66.8
44 5.7 3.5 5.3#



#4
2-Fluorophenol
Concen: 1.623 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 112 Resp: 4755
Ion Ratio Lower Upper
112 100
64 69.7 57.2 85.8
63 47.7 39.8 59.6

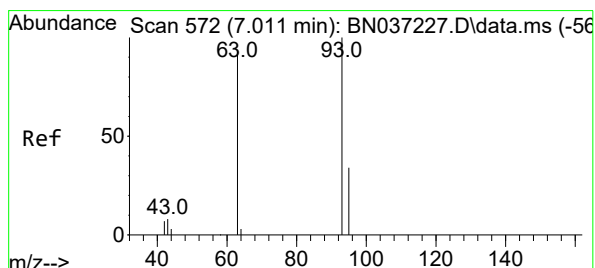
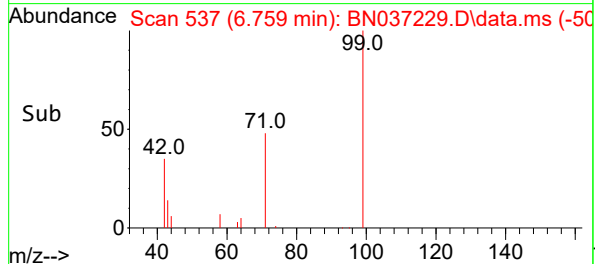
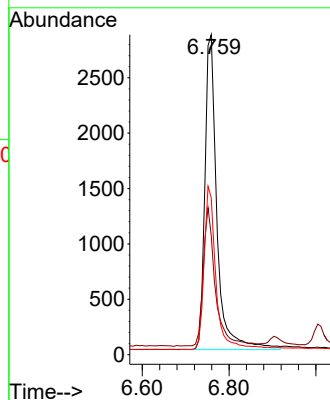
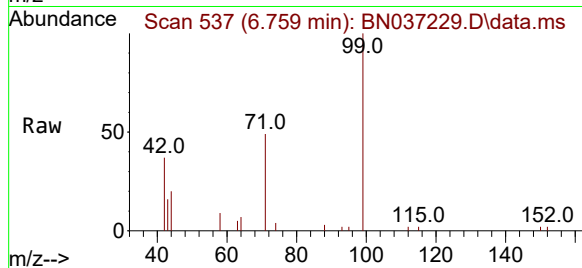




#5
Phenol-d6
Concen: 1.774 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

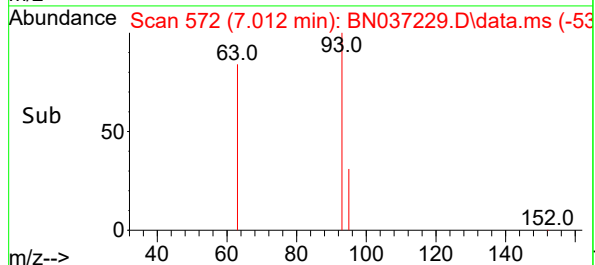
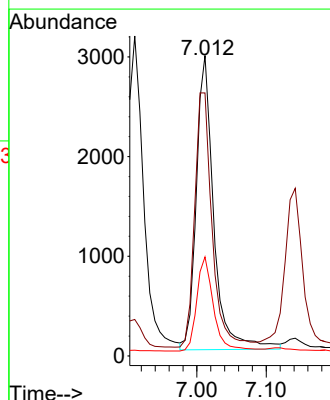
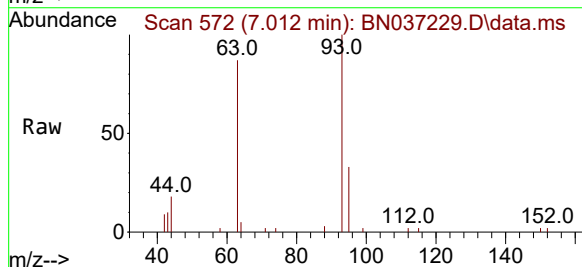
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

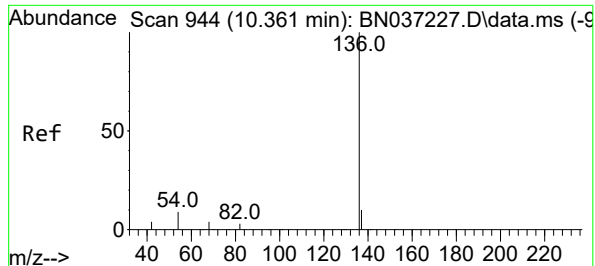
Tgt Ion	Ratio	Lower	Upper
99	100		
42	44.0	36.2	54.4
71	50.7	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 1.873 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.4	75.2	112.8
95	30.5	28.3	42.5

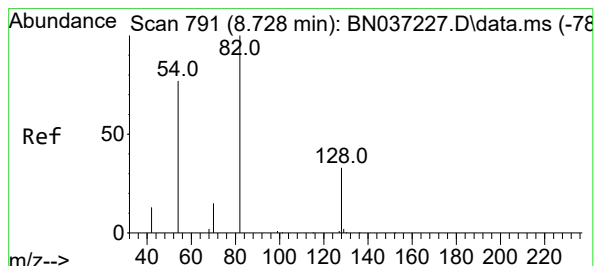
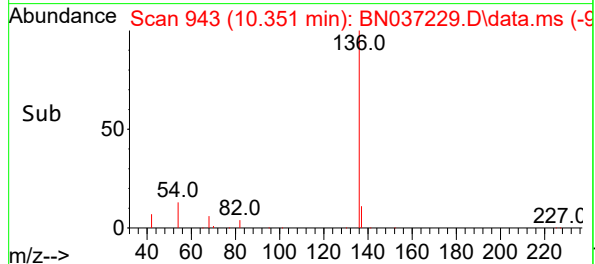
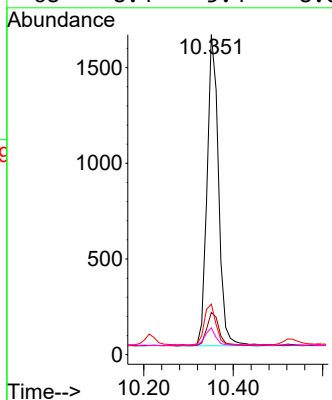
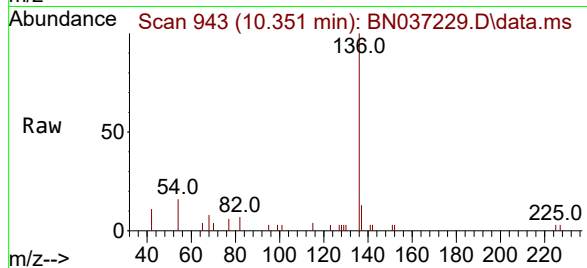




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

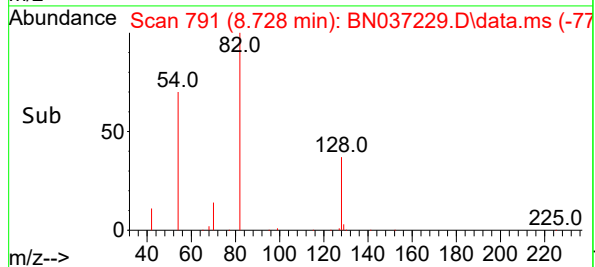
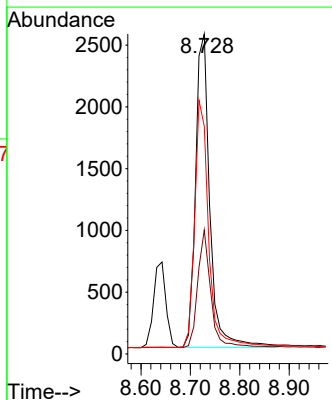
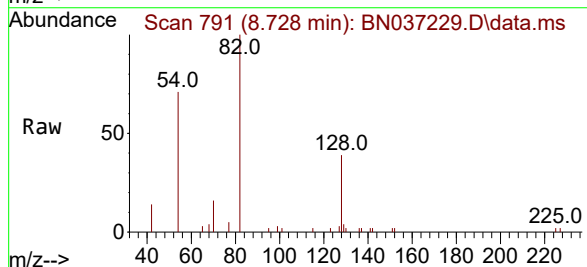
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

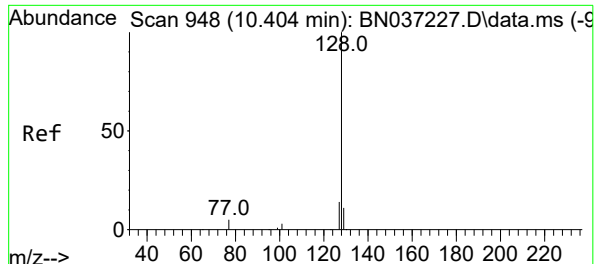
Tgt Ion:	136	Resp:	2881
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	15.8	9.2	13.8#
68	8.4	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 1.782 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:	82	Resp:	5073
Ion	Ratio	Lower	Upper
82	100		
128	38.7	31.2	46.8
54	71.1	63.3	94.9

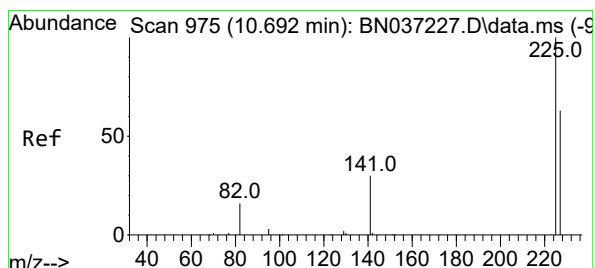
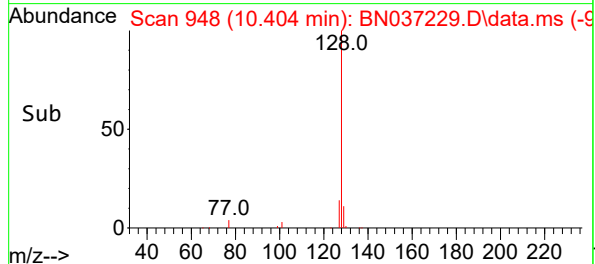
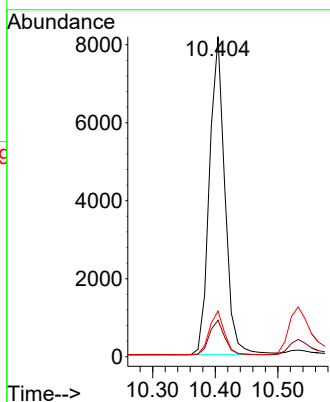
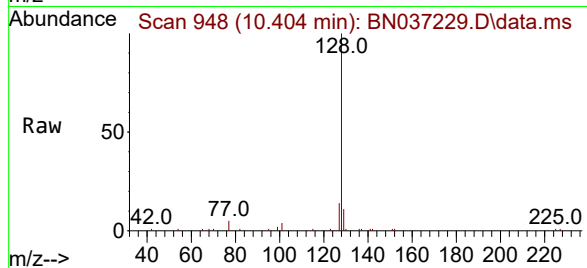




#9
Naphthalene
Concen: 1.669 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

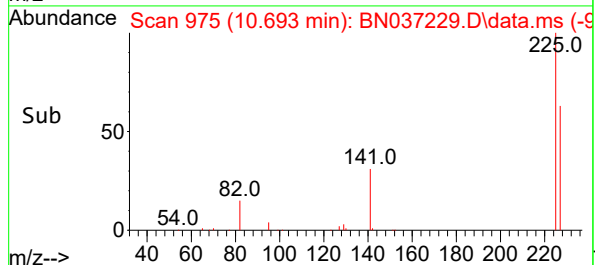
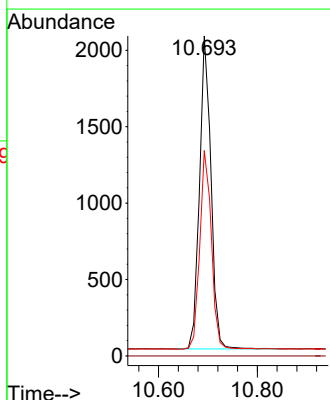
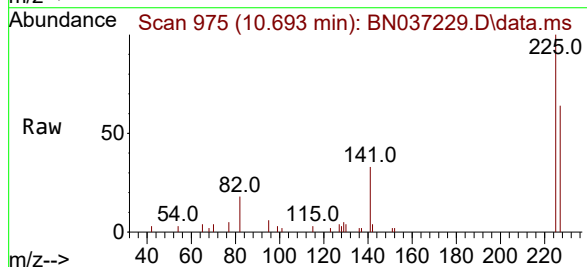
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

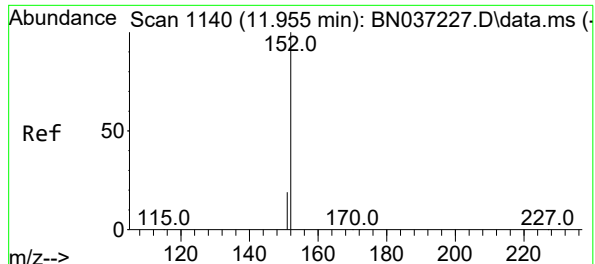
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	10.7	16.1
127	14.2	12.6	19.0



#10
Hexachlorobutadiene
Concen: 1.617 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	49.2	73.8

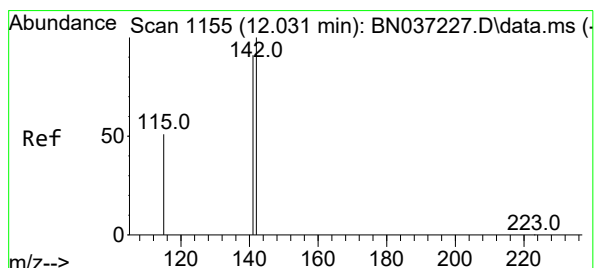
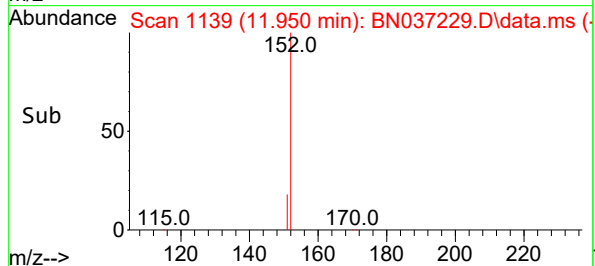
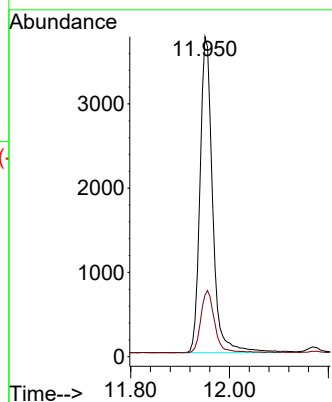
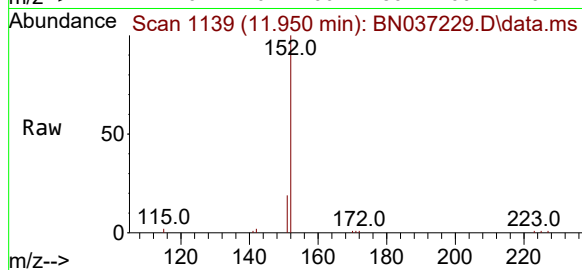




#11
2-Methylnaphthalene-d10
Concen: 1.718 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

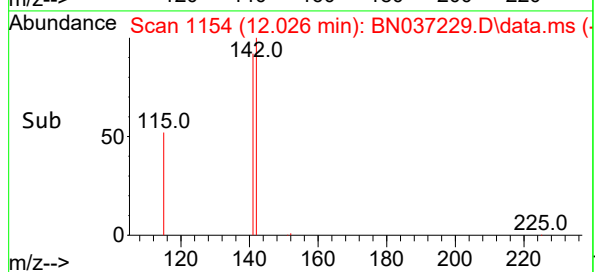
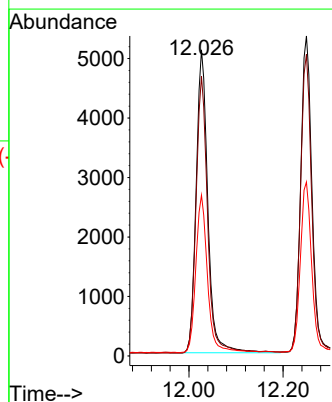
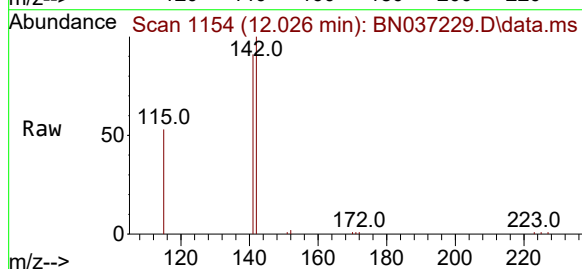
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

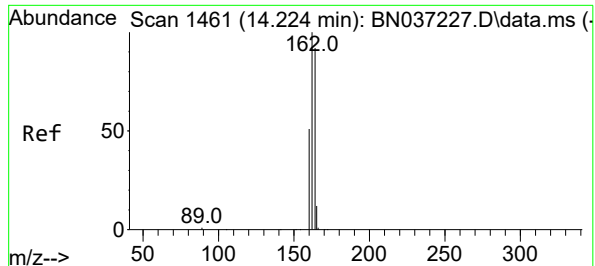
Tgt Ion:152 Resp: 6642
Ion Ratio Lower Upper
152 100
151 21.6 17.9 26.9



#12
2-Methylnaphthalene
Concen: 1.748 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:142 Resp: 8865
Ion Ratio Lower Upper
142 100
141 91.4 73.0 109.6
115 52.5 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

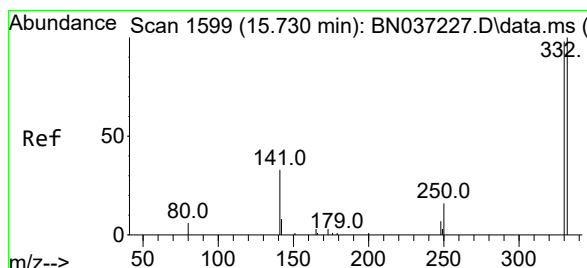
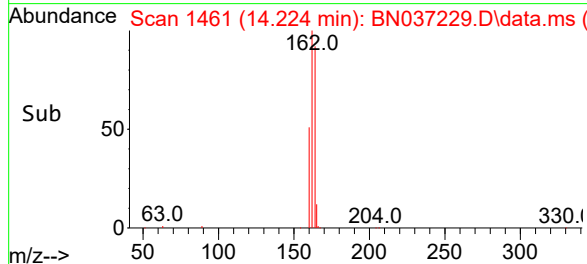
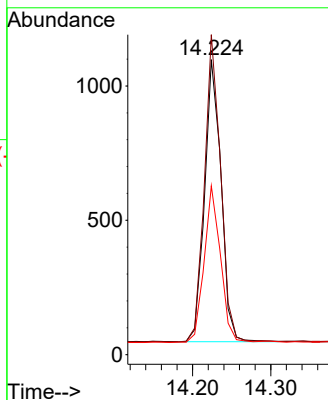
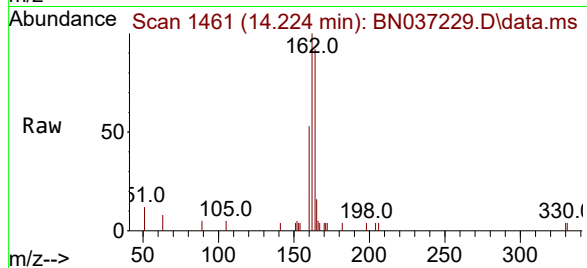
Tgt Ion:164 Resp: 1539

Ion Ratio Lower Upper

164 100

162 108.5 86.7 130.1

160 57.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 1.810 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.012 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

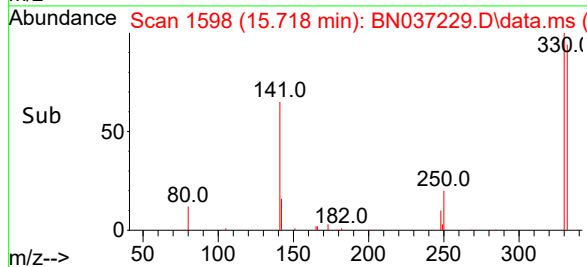
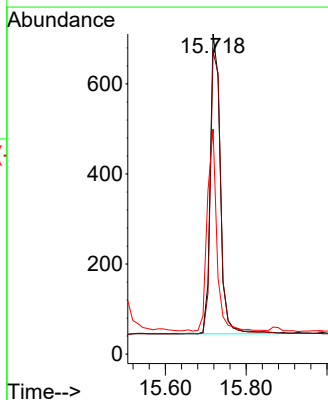
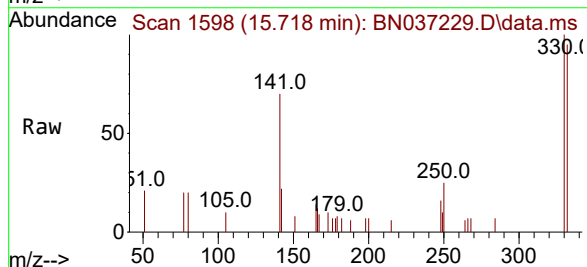
Tgt Ion:330 Resp: 1157

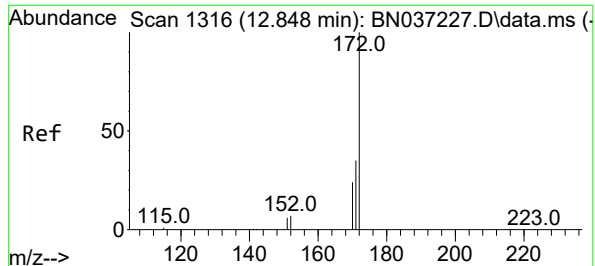
Ion Ratio Lower Upper

330 100

332 95.2 74.9 112.3

141 63.4 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 1.734 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

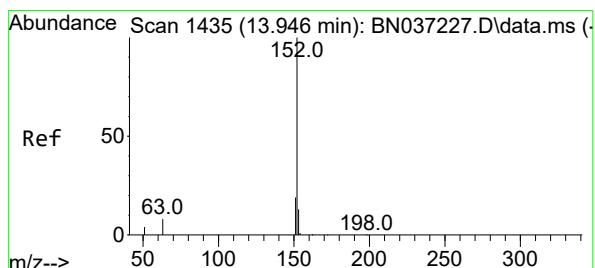
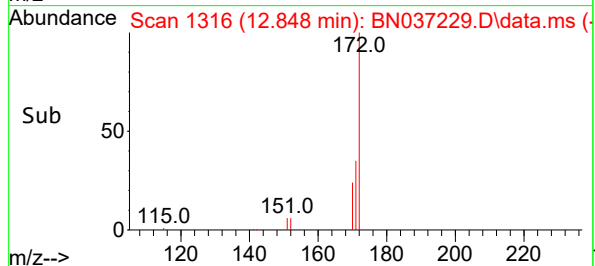
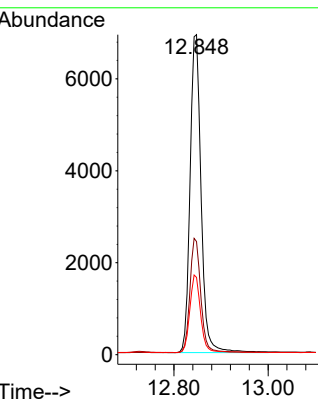
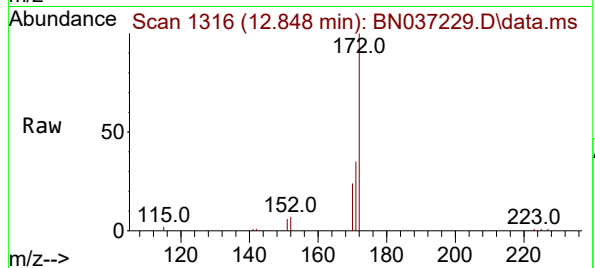
Tgt Ion:172 Resp: 11216

Ion Ratio Lower Upper

172 100

171 35.4 29.8 44.8

170 24.2 21.1 31.7



#16

Acenaphthylene

Concen: 1.696 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

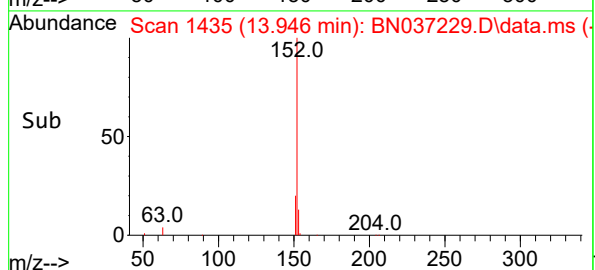
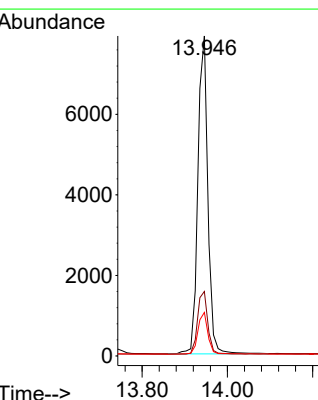
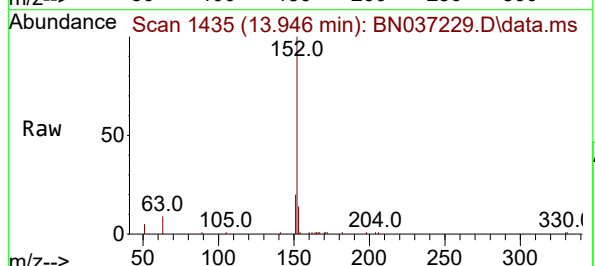
Tgt Ion:152 Resp: 12787

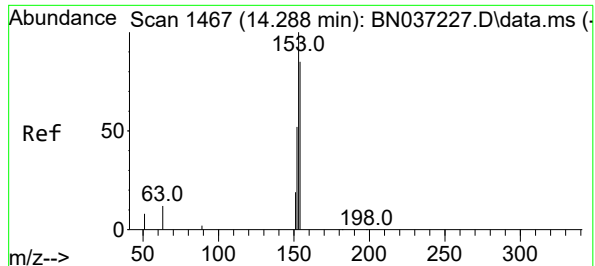
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 13.1 10.7 16.1

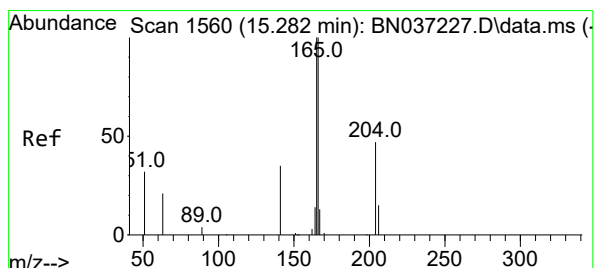
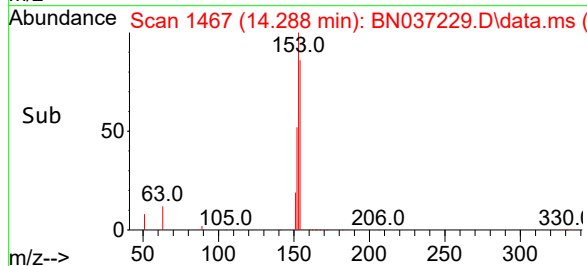
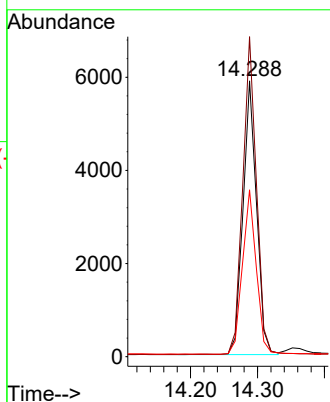
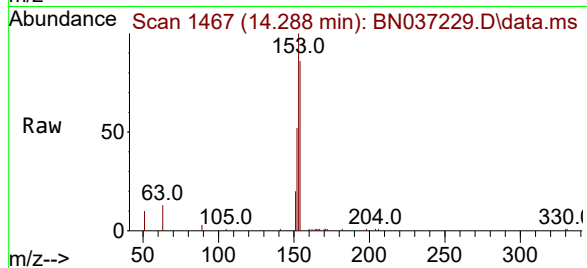




#17
Acenaphthene
Concen: 1.696 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

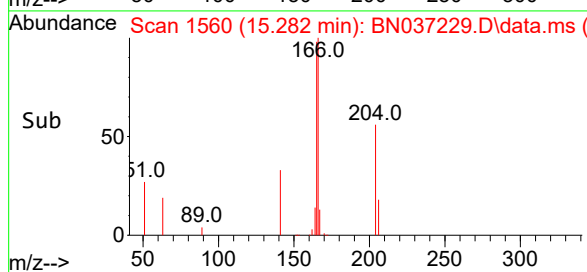
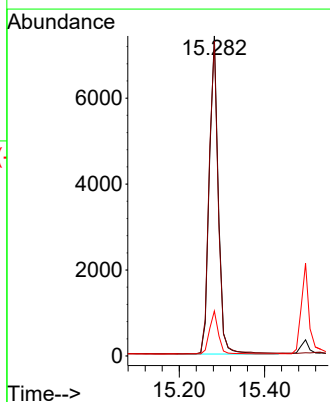
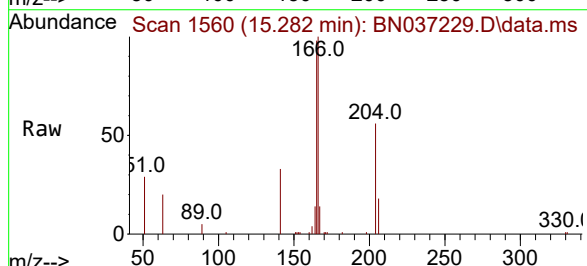
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

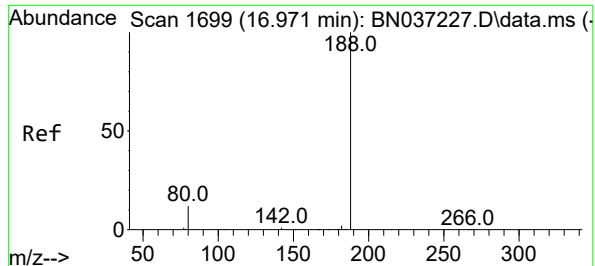
Tgt Ion:154 Resp: 8258
Ion Ratio Lower Upper
154 100
153 117.2 94.6 141.8
152 61.4 49.6 74.4



#18
Fluorene
Concen: 1.730 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:166 Resp: 10814
Ion Ratio Lower Upper
166 100
165 99.8 79.8 119.6
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

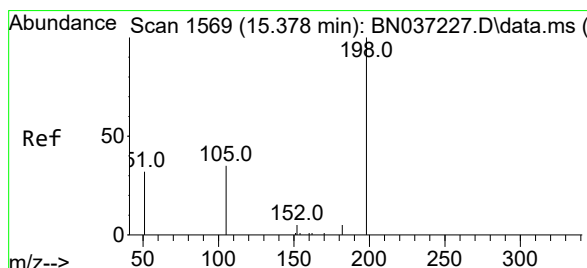
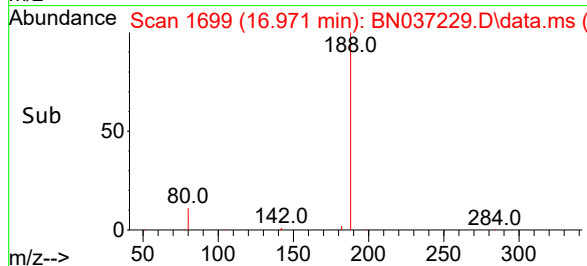
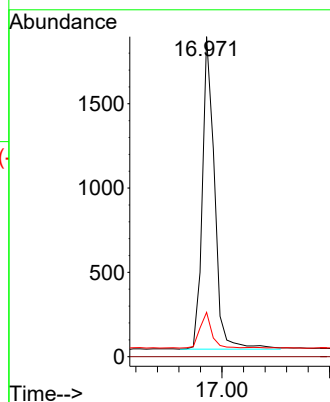
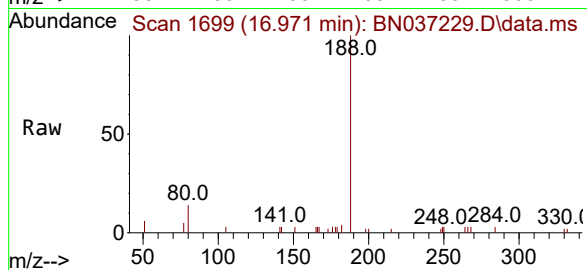
Tgt Ion:188 Resp: 2917

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.9 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.596 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

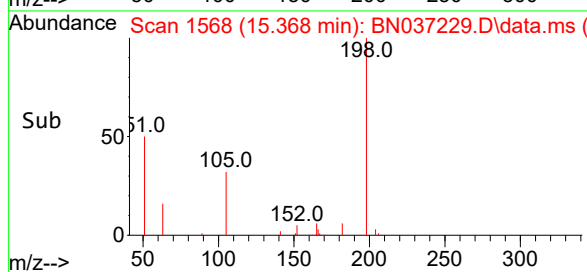
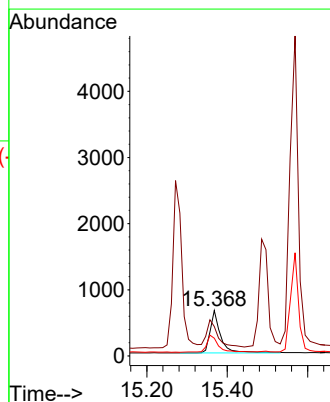
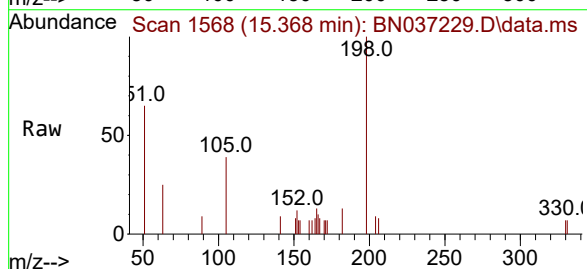
Tgt Ion:198 Resp: 1171

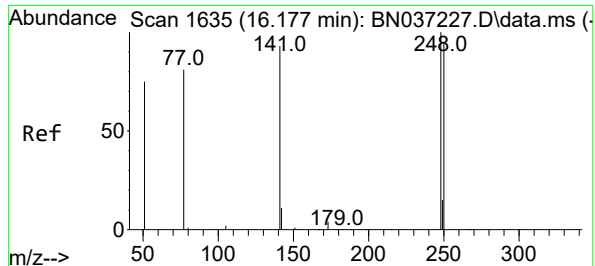
Ion Ratio Lower Upper

198 100

51 64.8 111.2 166.8#

105 39.0 54.0 81.0#





#21

4-Bromophenyl-phenylether

Concen: 1.709 ng

RT: 16.177 min Scan# 1635

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

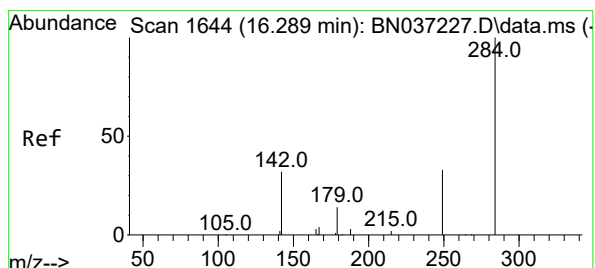
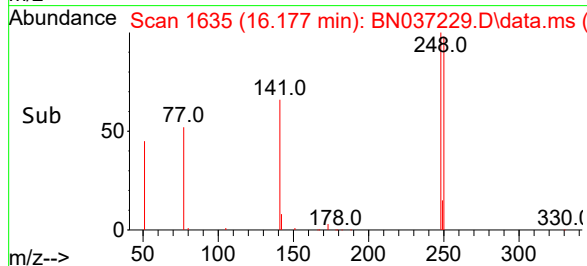
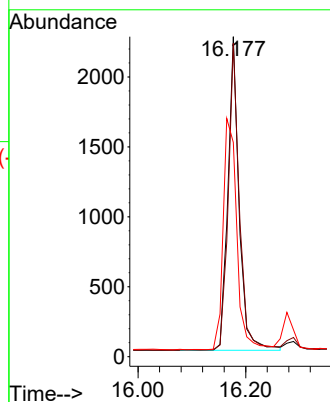
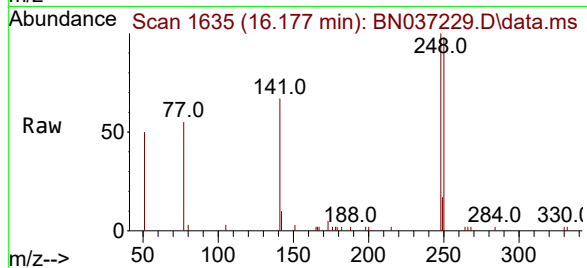
Tgt Ion:248 Resp: 3248

Ion Ratio Lower Upper

248 100

250 98.0 76.8 115.2

141 67.0 75.6 113.4#



#22

Hexachlorobenzene

Concen: 1.570 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

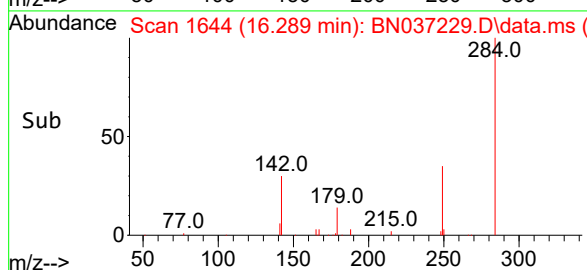
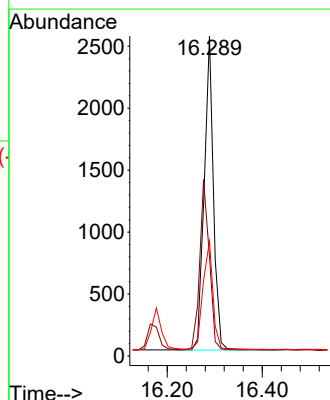
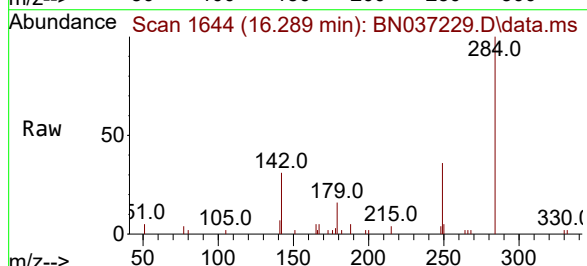
Tgt Ion:284 Resp: 3460

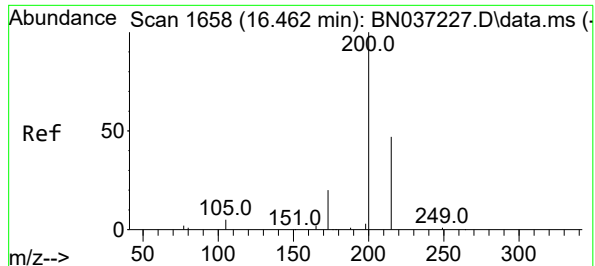
Ion Ratio Lower Upper

284 100

142 56.0 43.8 65.6

249 36.7 28.4 42.6

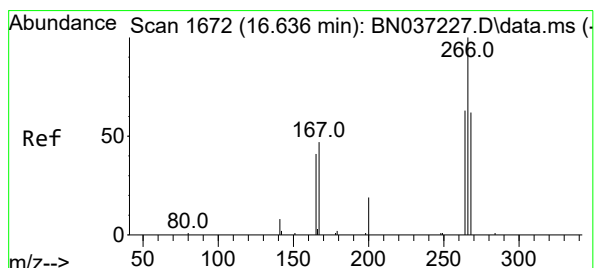
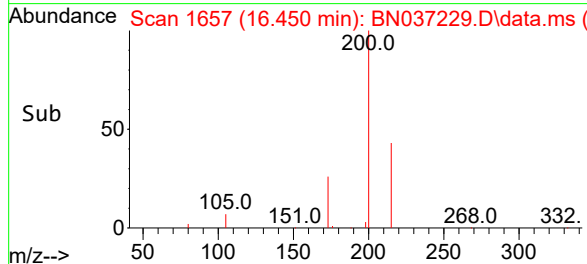
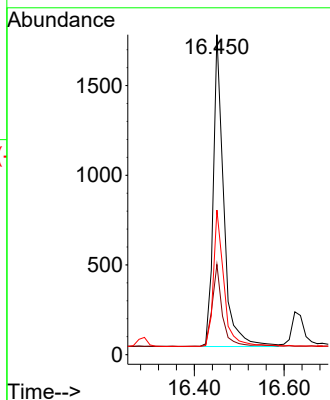
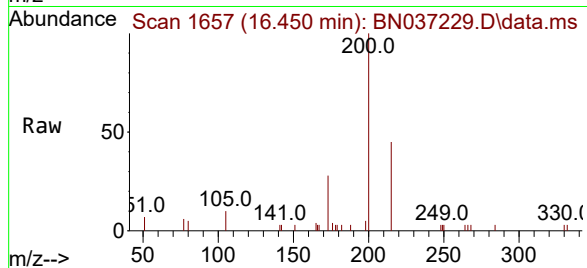




#23
Atrazine
Concen: 1.657 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

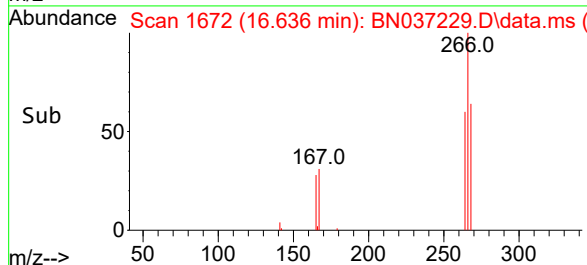
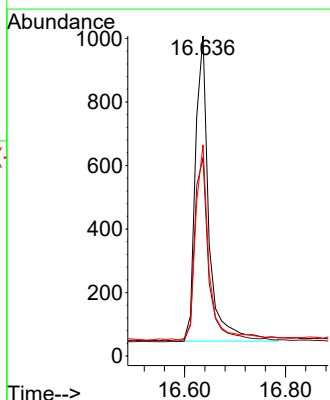
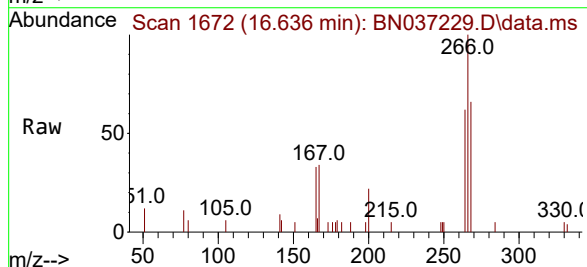
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

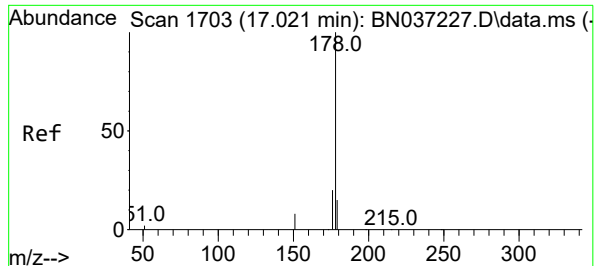
Tgt Ion:200 Resp: 2809
Ion Ratio Lower Upper
200 100
173 28.2 25.1 37.7
215 45.2 43.7 65.5



#24
Pentachlorophenol
Concen: 1.667 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:266 Resp: 1800
Ion Ratio Lower Upper
266 100
264 63.8 49.2 73.8
268 63.8 53.4 80.2





#25

Phenanthrene

Concen: 1.670 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

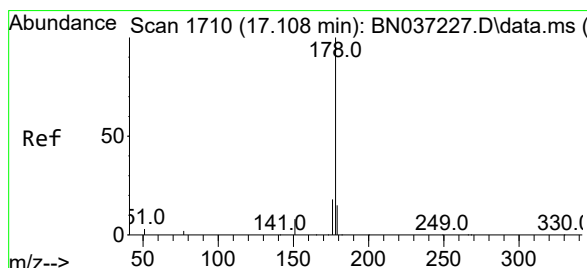
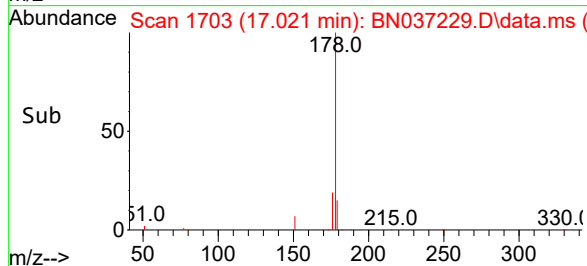
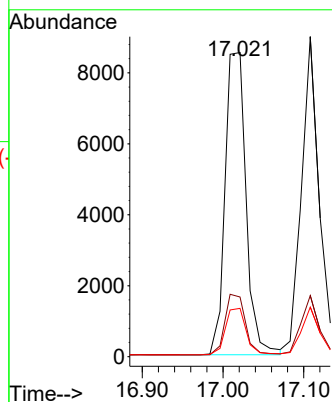
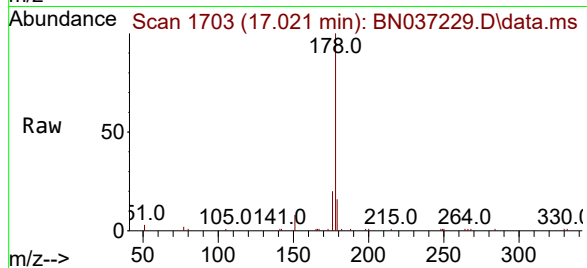
Tgt Ion:178 Resp: 15448

Ion Ratio Lower Upper

178 100

176 19.7 16.3 24.5

179 15.2 12.6 18.8



#26

Anthracene

Concen: 1.682 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

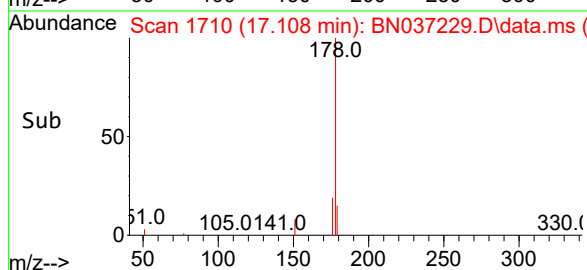
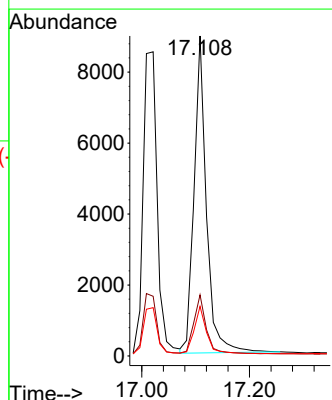
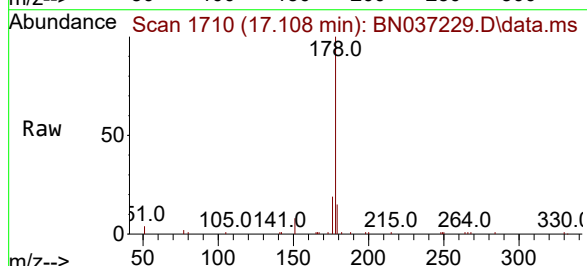
Tgt Ion:178 Resp: 14243

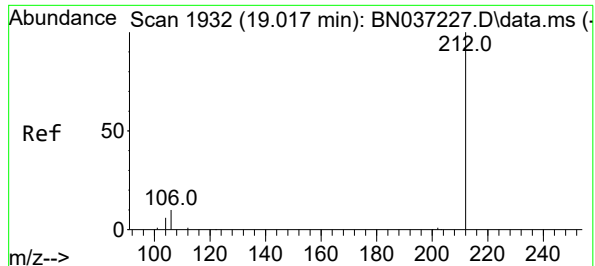
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.610 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

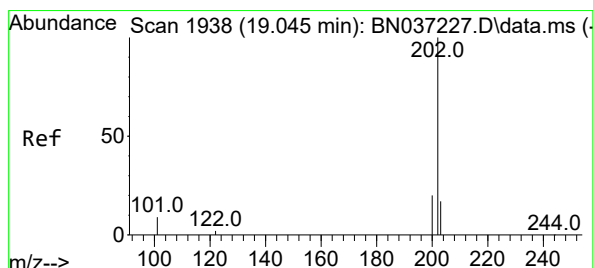
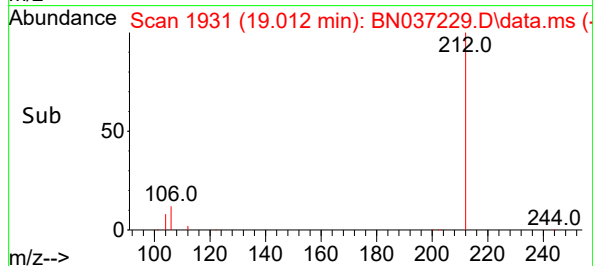
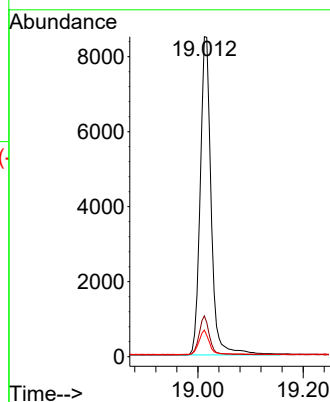
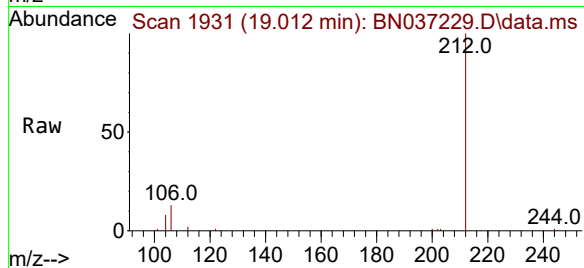
Tgt Ion:212 Resp: 12285

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 1.626 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

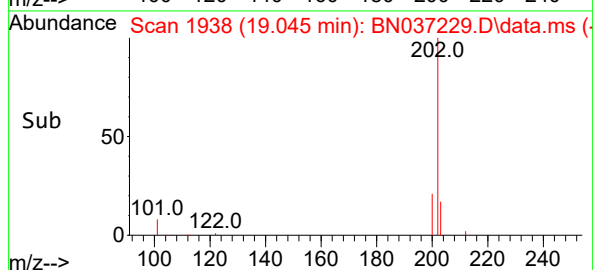
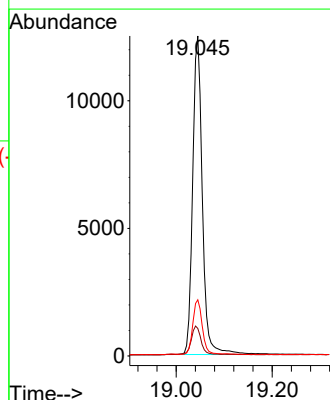
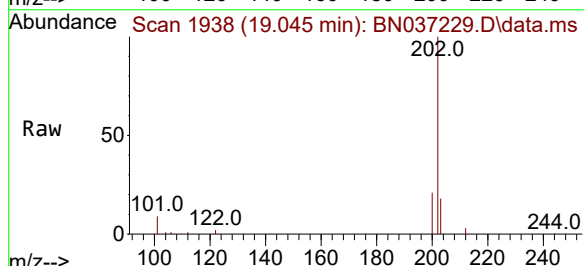
Tgt Ion:202 Resp: 17611

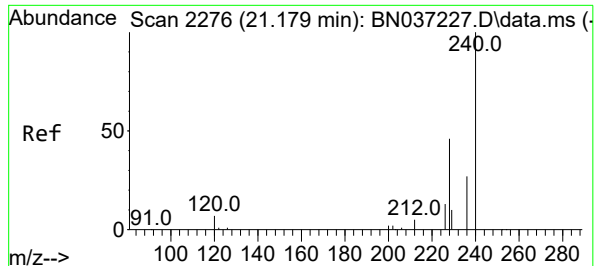
Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

203 17.0 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

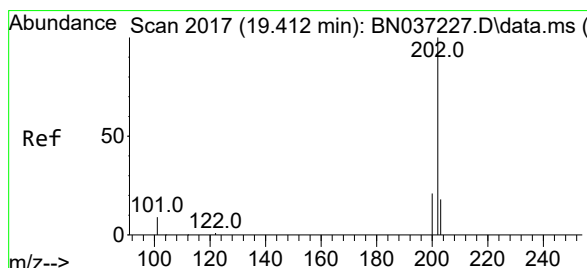
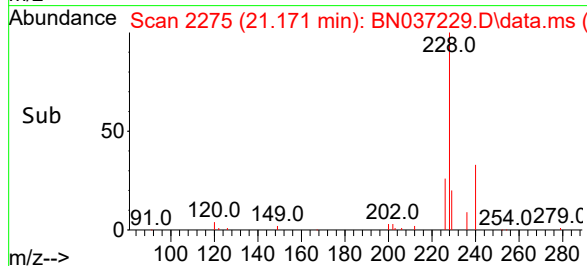
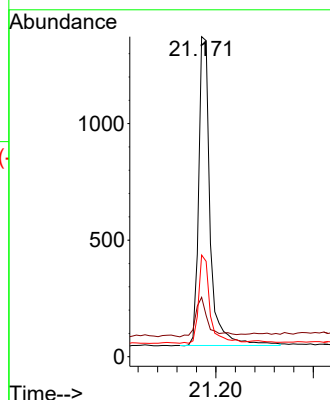
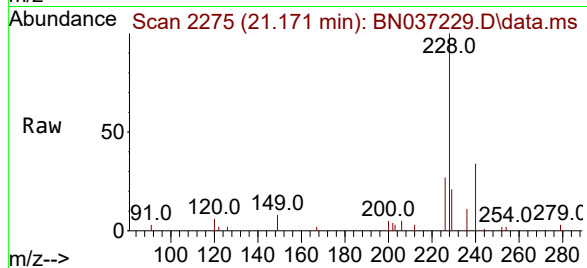
Tgt Ion:240 Resp: 2167

Ion Ratio Lower Upper

240 100

120 18.6 11.3 16.9#

236 31.8 24.4 36.6



#30

Pyrene

Concen: 1.716 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

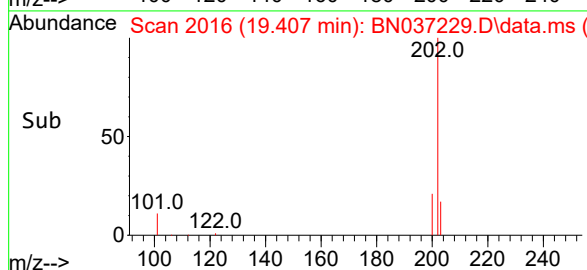
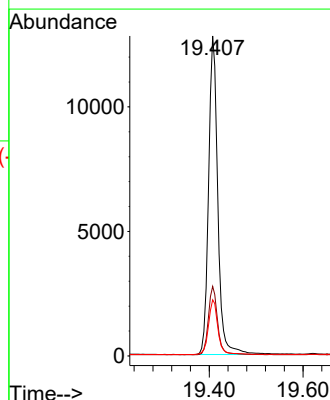
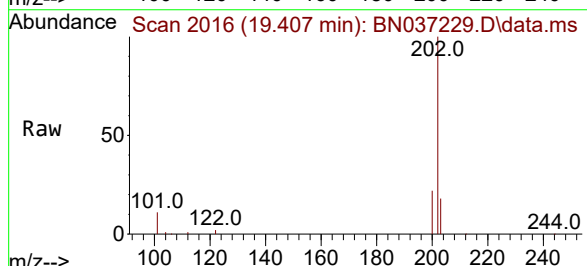
Tgt Ion:202 Resp: 17479

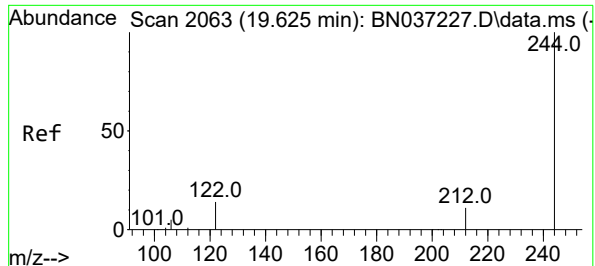
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 17.7 14.3 21.5

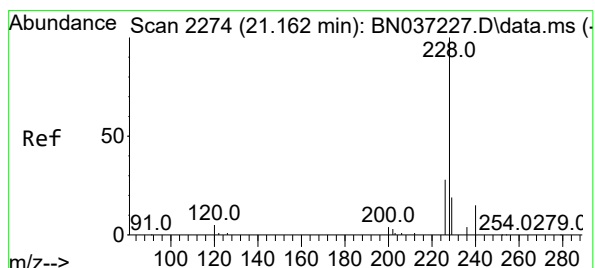
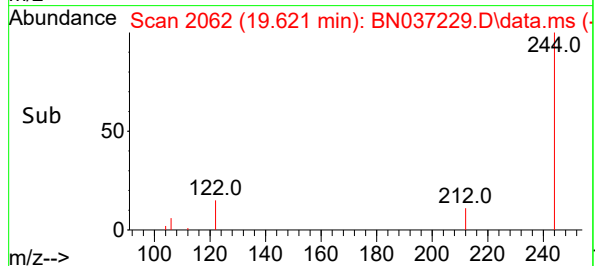
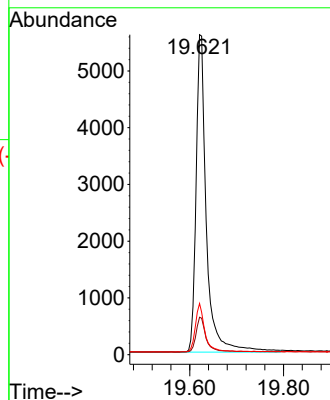
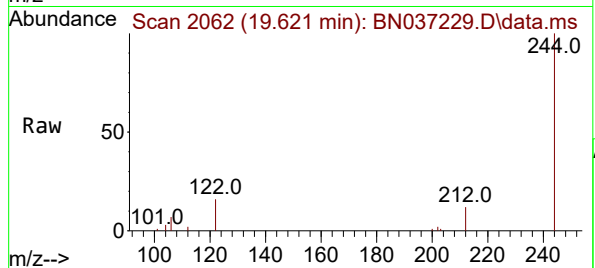




#31
Terphenyl-d14
Concen: 1.751 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

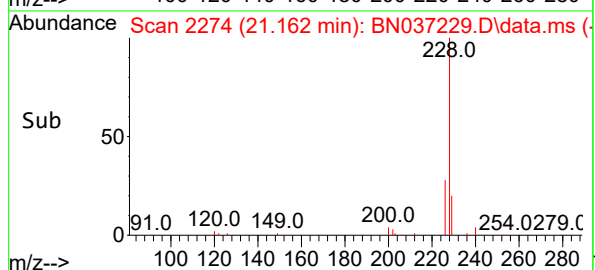
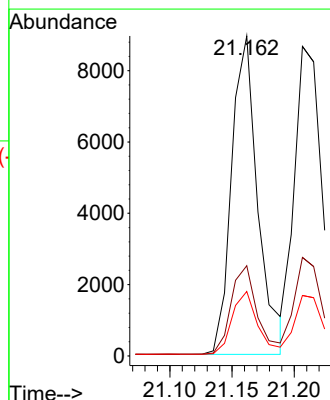
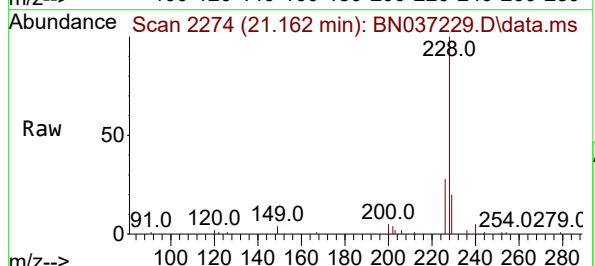
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

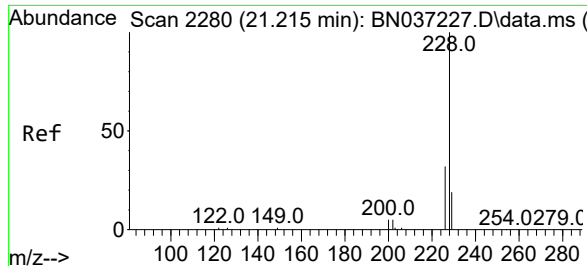
Tgt Ion:244 Resp: 8579
Ion Ratio Lower Upper
244 100
212 11.7 12.2 18.2#
122 16.0 14.3 21.5



#32
Benzo(a)anthracene
Concen: 1.791 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:228 Resp: 13105
Ion Ratio Lower Upper
228 100
226 28.2 23.8 35.8
229 20.1 17.0 25.4





#33

Chrysene

Concen: 1.627 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

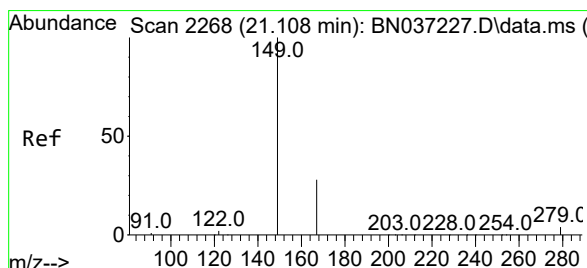
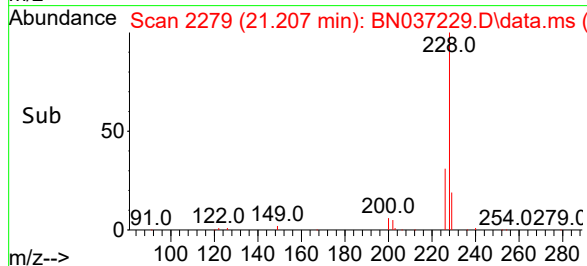
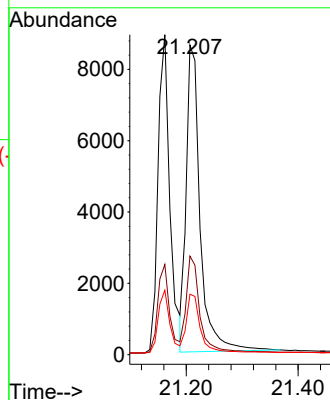
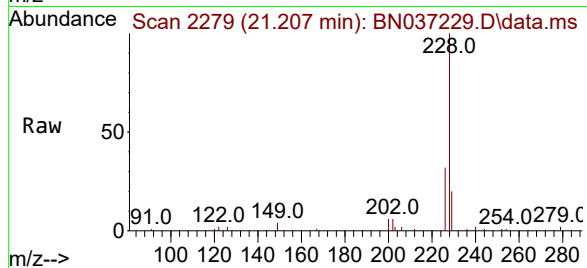
Tgt Ion:228 Resp: 14835

Ion Ratio Lower Upper

228 100

226 31.8 25.8 38.6

229 19.6 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.599 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

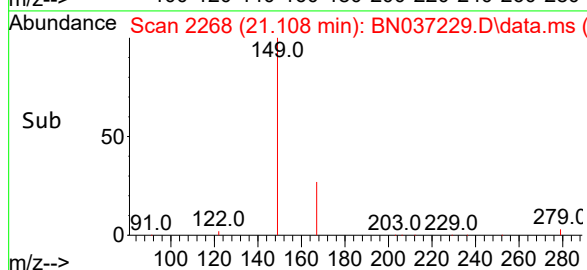
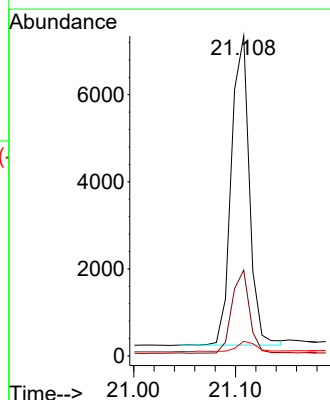
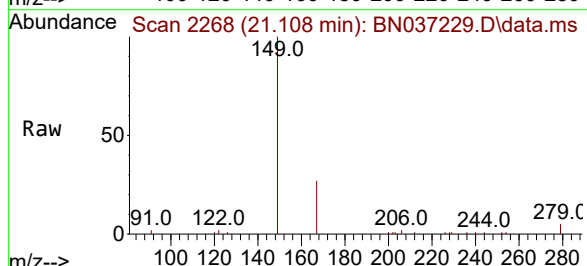
Tgt Ion:149 Resp: 8716

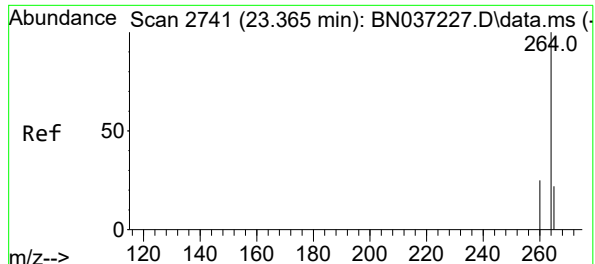
Ion Ratio Lower Upper

149 100

167 26.3 21.3 31.9

279 3.7 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

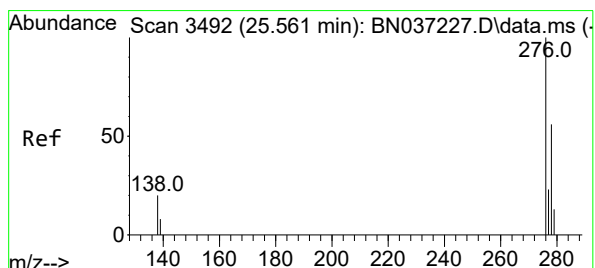
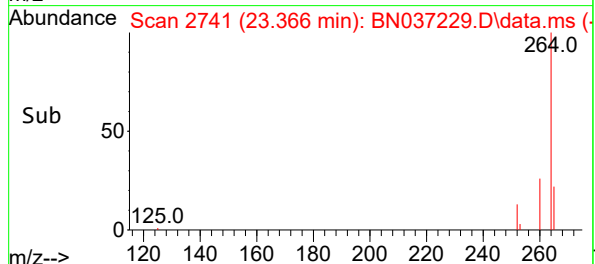
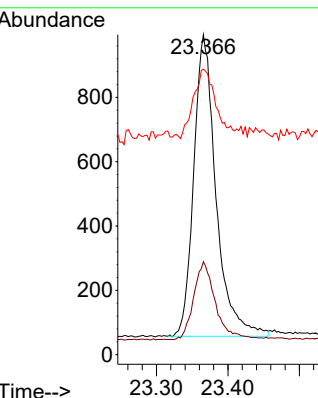
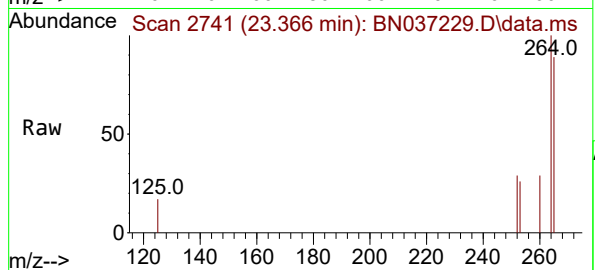
Tgt Ion:264 Resp: 2036

Ion Ratio Lower Upper

264 100

260 29.0 22.8 34.2

265 89.2 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.704 ng

RT: 25.555 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

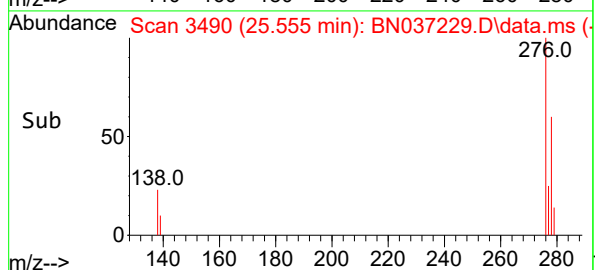
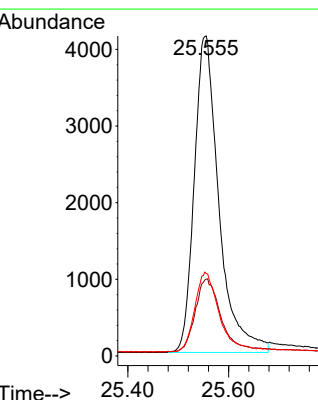
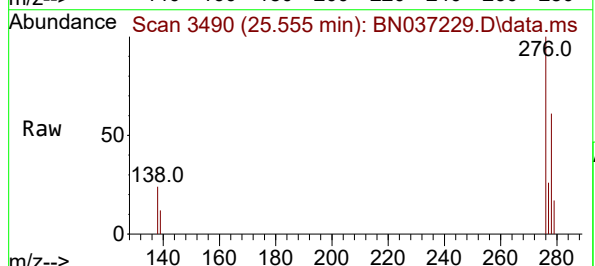
Tgt Ion:276 Resp: 13992

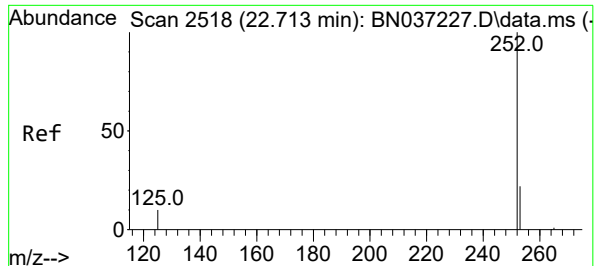
Ion Ratio Lower Upper

276 100

138 23.7 16.8 25.2

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.769 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

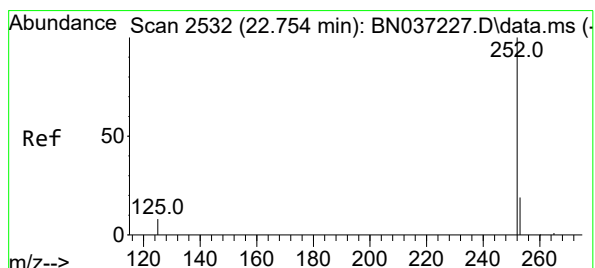
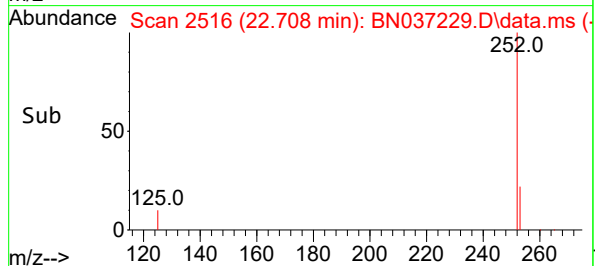
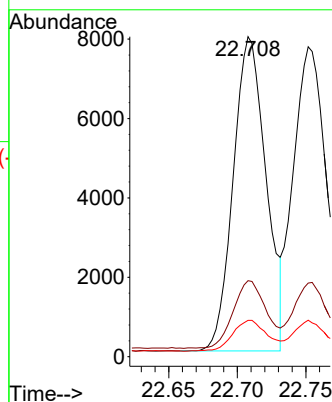
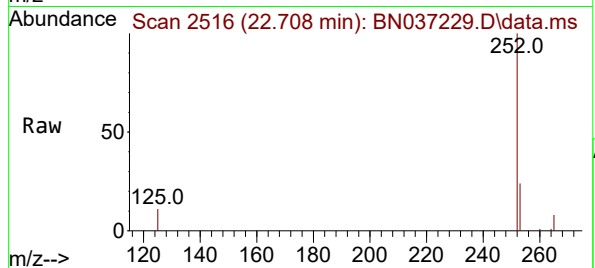
Tgt Ion:252 Resp: 13177

Ion Ratio Lower Upper

252 100

253 23.8 24.9 37.3#

125 11.4 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 1.675 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

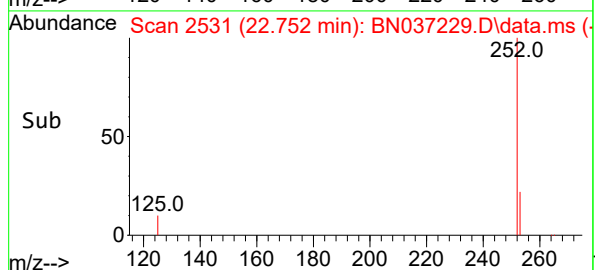
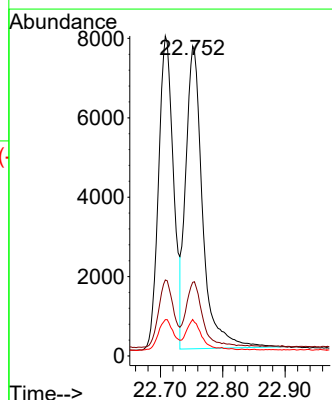
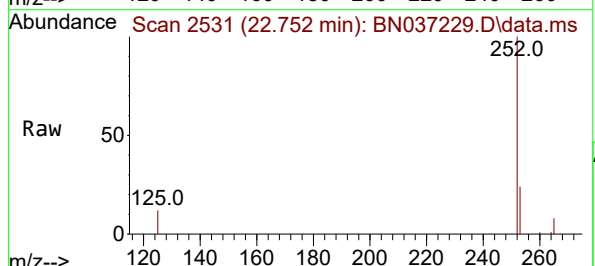
Tgt Ion:252 Resp: 14311

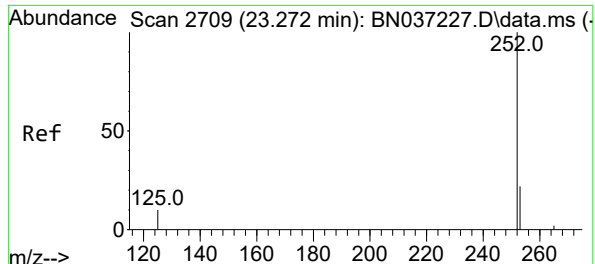
Ion Ratio Lower Upper

252 100

253 23.8 24.6 37.0#

125 11.8 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 1.710 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

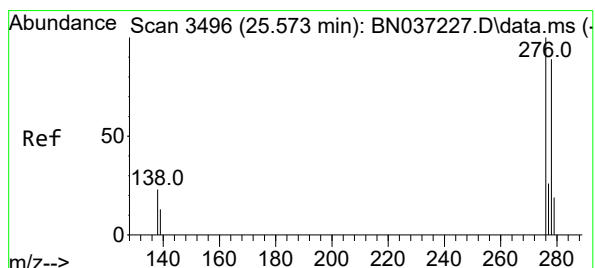
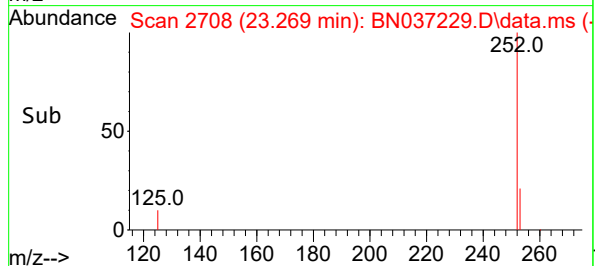
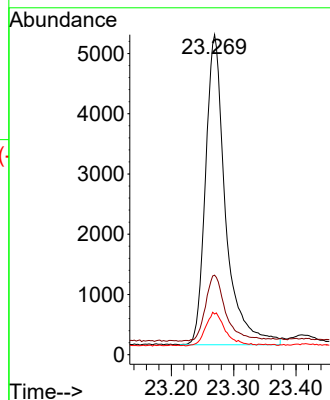
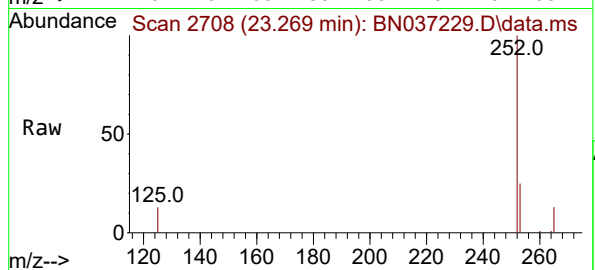
Tgt Ion:252 Resp: 11458

Ion Ratio Lower Upper

252 100

253 24.9 29.4 44.2#

125 12.7 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.793 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

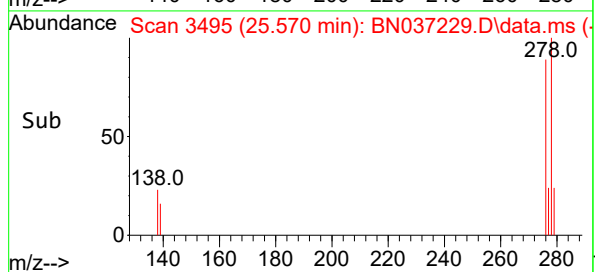
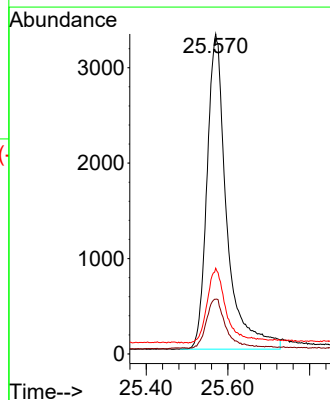
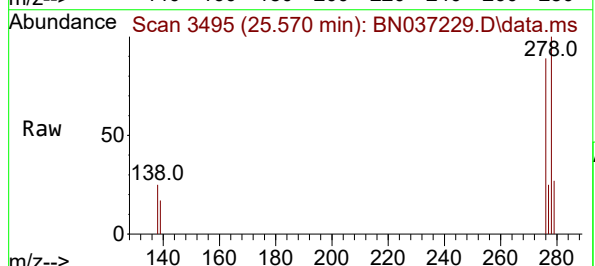
Tgt Ion:278 Resp: 11091

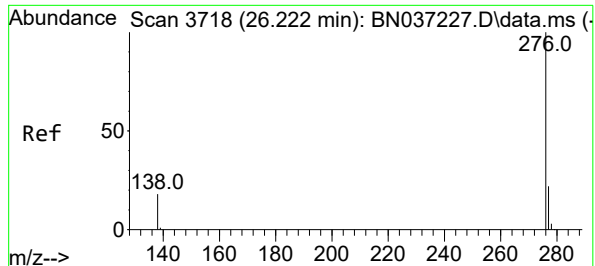
Ion Ratio Lower Upper

278 100

139 17.1 17.8 26.6#

279 26.8 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 1.665 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037229.D

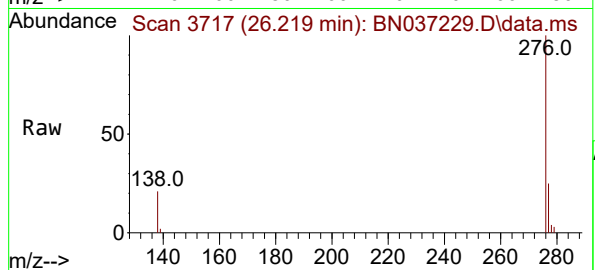
Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



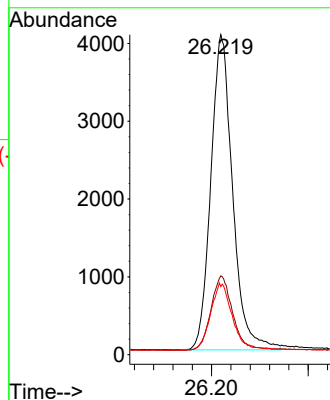
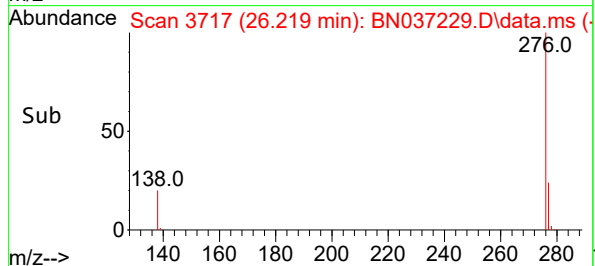
Tgt Ion:276 Resp: 12677

Ion Ratio Lower Upper

276 100

277 24.7 22.0 33.0

138 21.3 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037230.D
 Acq On : 13 Jun 2025 16:35
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

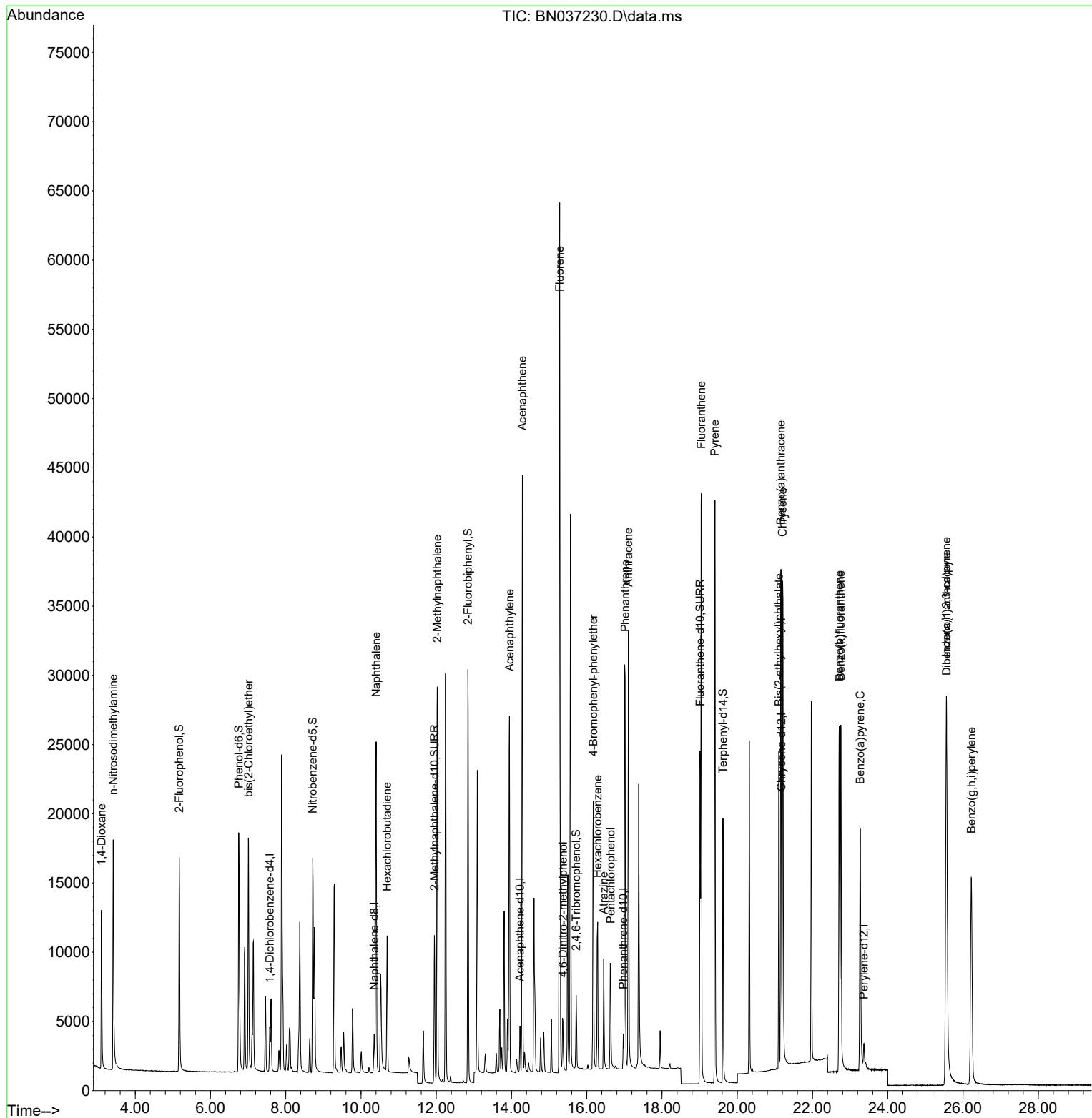
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1362	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3277	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1730	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3218	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2562	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	2434	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	10792	3.226	ng	0.00
5) Phenol-d6	6.752	99	12700	3.602	ng	0.00
8) Nitrobenzene-d5	8.717	82	11592	3.579	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	14468	3.290	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	2530	3.521	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	24600	3.384	ng	0.00
27) Fluoranthene-d10	19.012	212	26844	3.188	ng	0.00
31) Terphenyl-d14	19.621	244	19247	3.323	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	5606	3.000	ng	94
3) n-Nitrosodimethylamine	3.415	42	13425	3.153	ng	97
6) bis(2-Chloroethyl)ether	7.012	93	11592	3.671	ng	94
9) Naphthalene	10.404	128	30442	3.208	ng	95
10) Hexachlorobutadiene	10.693	225	6997	3.031	ng	# 98
12) 2-Methylnaphthalene	12.026	142	19566	3.392	ng	98
16) Acenaphthylene	13.946	152	28536	3.366	ng	99
17) Acenaphthene	14.288	154	18242	3.334	ng	98
18) Fluorene	15.282	166	23723	3.375	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	2836	3.223	ng	# 37
21) 4-Bromophenyl-phenylether	16.177	248	7106	3.389	ng	# 83
22) Hexachlorobenzene	16.289	284	7308	3.006	ng	97
23) Atrazine	16.450	200	6193	3.311	ng	88
24) Pentachlorophenol	16.636	266	4179	3.508	ng	98
25) Phenanthrene	17.021	178	34176	3.349	ng	99
26) Anthracene	17.108	178	32366	3.464	ng	99
28) Fluoranthene	19.045	202	38876	3.254	ng	98
30) Pyrene	19.407	202	38772	3.219	ng	100
32) Benzo(a)anthracene	21.162	228	30893	3.571	ng	96
33) Chrysene	21.207	228	33474	3.106	ng	97
34) Bis(2-ethylhexyl)phtha...	21.108	149	19300	2.996	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.556	276	34219	3.486	ng	# 94
37) Benzo(b)fluoranthene	22.711	252	30687	3.447	ng	# 85
38) Benzo(k)fluoranthene	22.752	252	33172	3.248	ng	# 85
39) Benzo(a)pyrene	23.269	252	26918	3.361	ng	# 79
40) Dibenzo(a,h)anthracene	25.564	278	27744	3.751	ng	# 81
41) Benzo(g,h,i)perylene	26.219	276	30489	3.350	ng	95

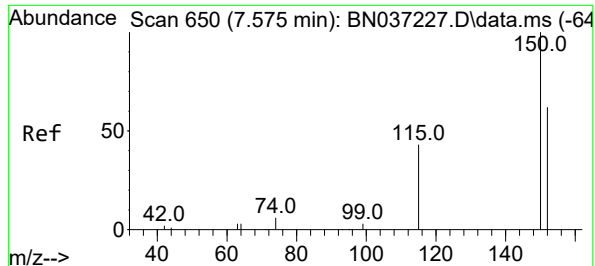
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037230.D
Acq On : 13 Jun 2025 16:35
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

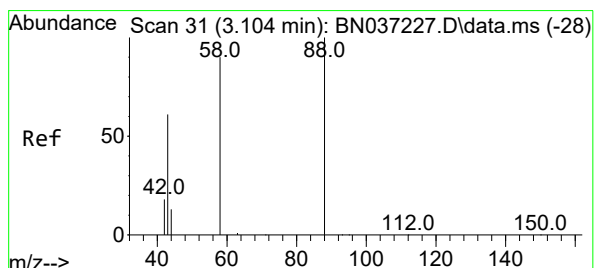
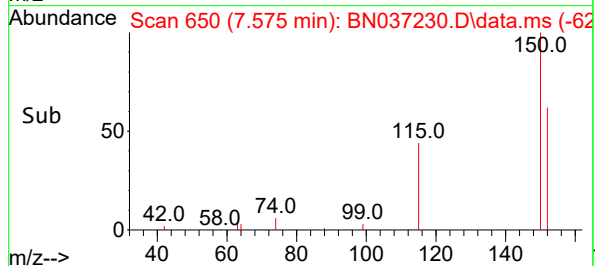
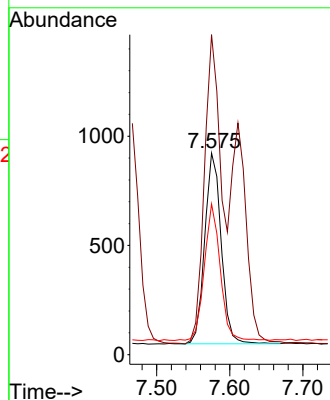
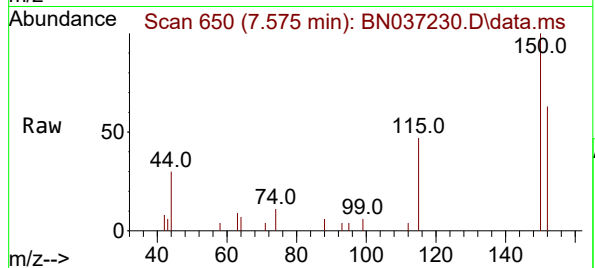




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

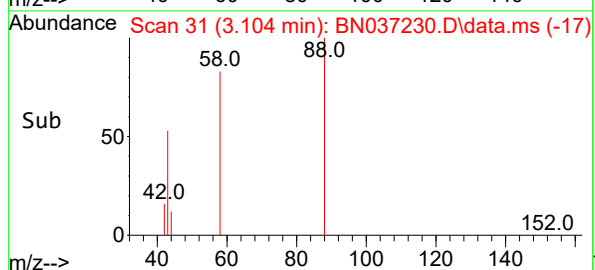
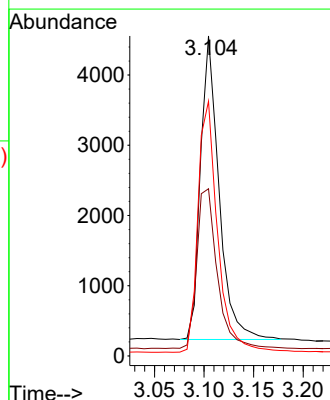
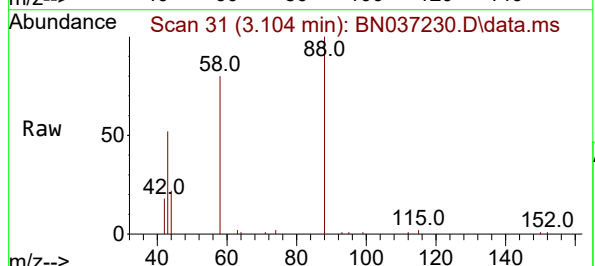
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

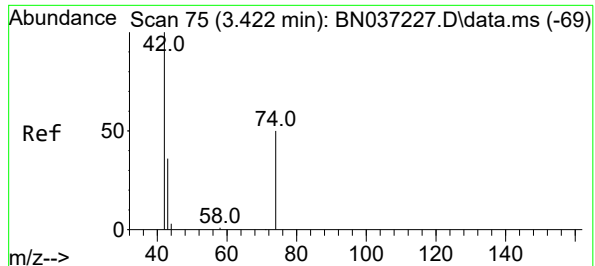
Tgt Ion:152 Resp: 1362
Ion Ratio Lower Upper
152 100
150 158.7 125.2 187.8
115 74.8 58.4 87.6



#2
1,4-Dioxane
Concen: 3.000 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 88 Resp: 5606
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 88.1 73.5 110.3

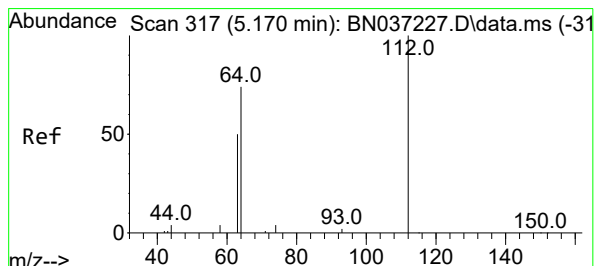
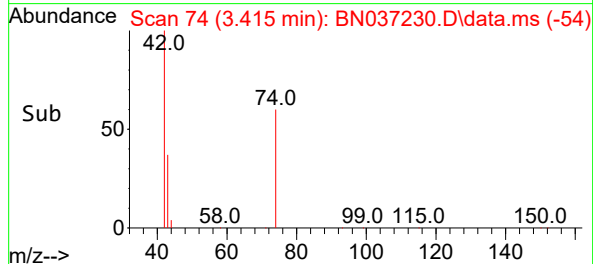
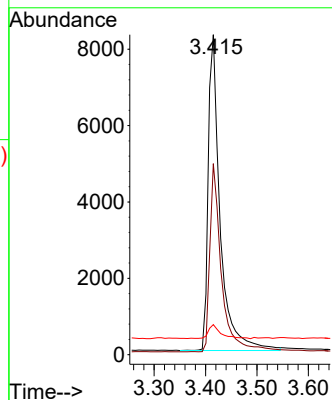
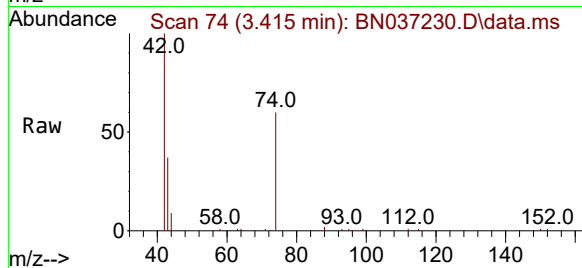




#3
n-Nitrosodimethylamine
Concen: 3.153 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

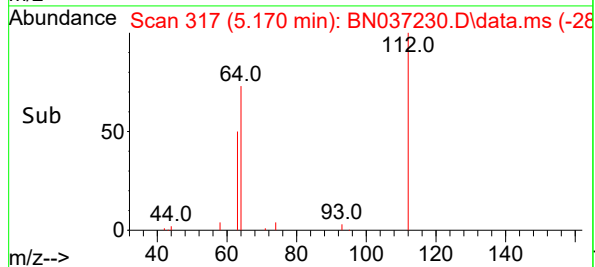
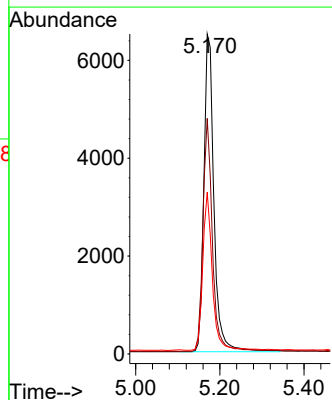
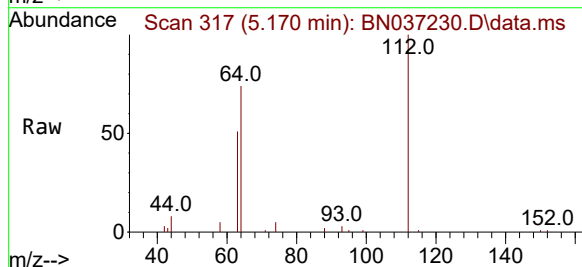
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

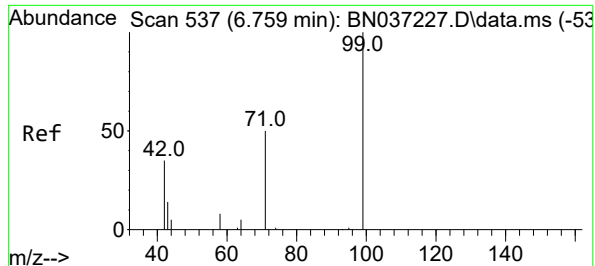
Tgt Ion: 42 Resp: 13425
Ion Ratio Lower Upper
42 100
74 58.0 44.6 66.8
44 4.7 3.5 5.3



#4
2-Fluorophenol
Concen: 3.226 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 112 Resp: 10792
Ion Ratio Lower Upper
112 100
64 69.7 57.2 85.8
63 47.3 39.8 59.6

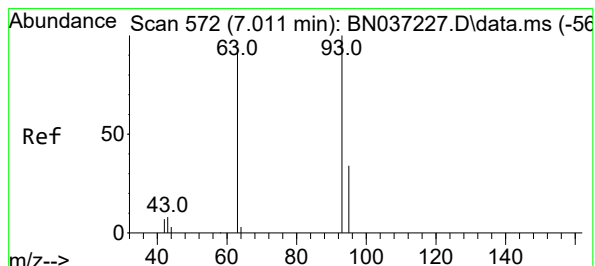
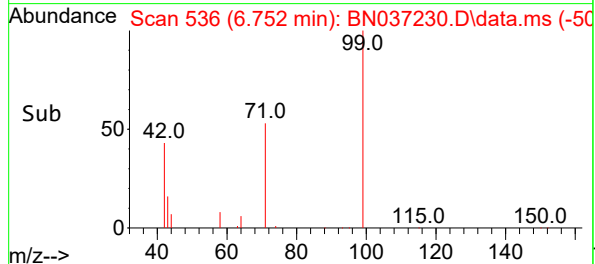
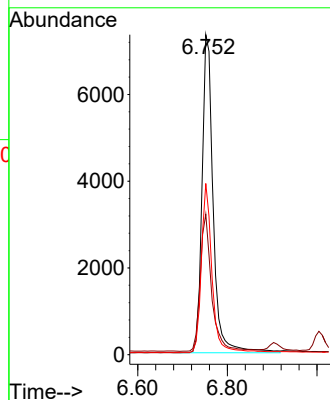
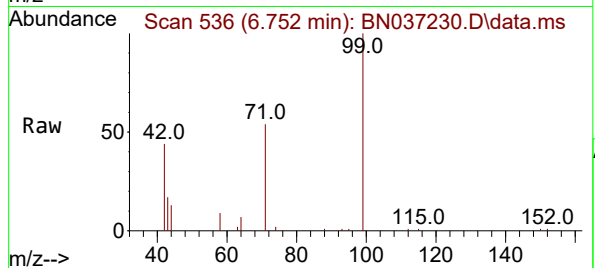




#5
Phenol-d6
Concen: 3.602 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

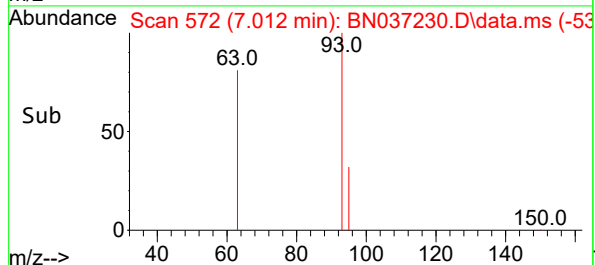
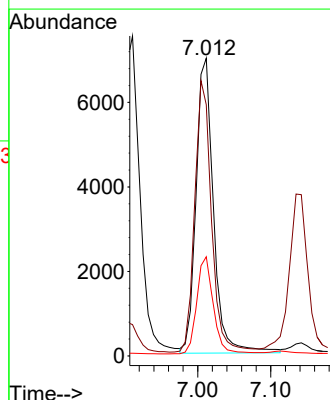
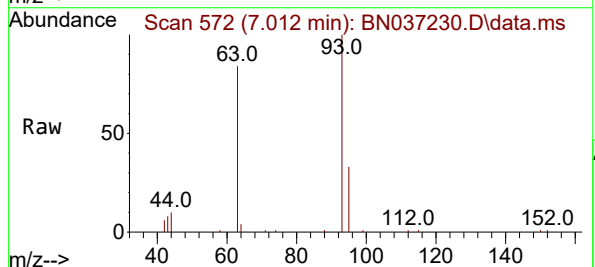
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

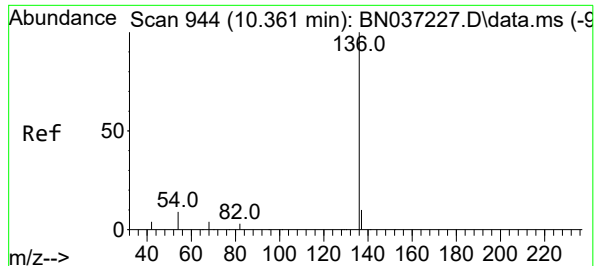
Tgt Ion: 99 Resp: 12700
Ion Ratio Lower Upper
99 100
42 44.5 36.2 54.4
71 51.2 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 3.671 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 93 Resp: 11592
Ion Ratio Lower Upper
93 100
63 88.1 75.2 112.8
95 31.1 28.3 42.5

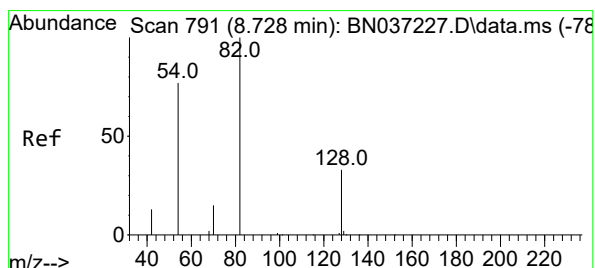
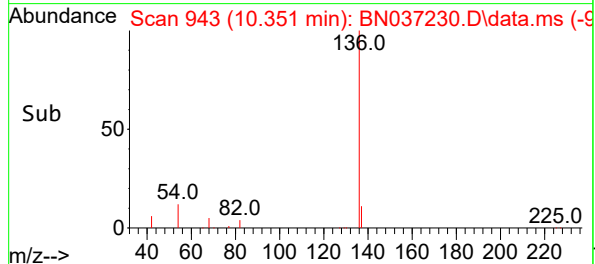
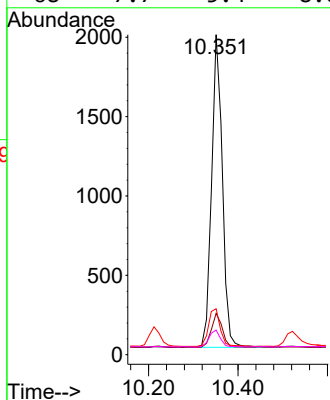
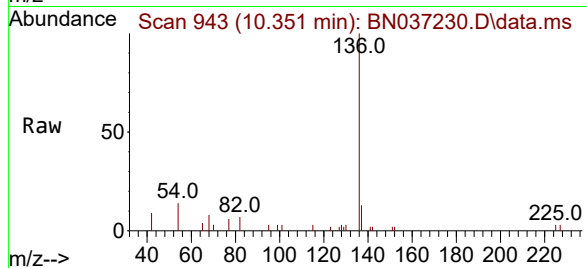




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

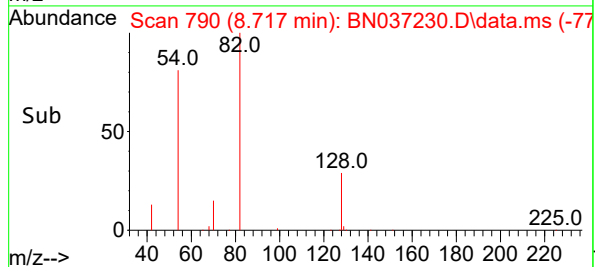
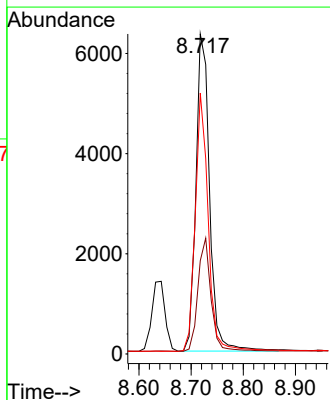
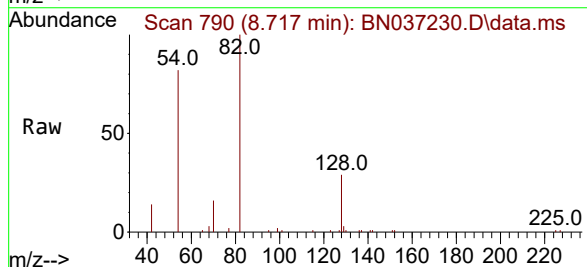
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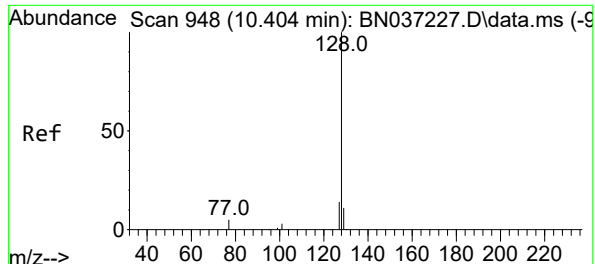
Tgt Ion:	136	Resp:	3277
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.6	15.8
54	14.4	9.2	13.8#
68	7.7	5.4	8.0



#8
Nitrobenzene-d5
Concen: 3.579 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:	82	Resp:	11592
Ion	Ratio	Lower	Upper
82	100		
128	29.1	31.2	46.8#
54	81.6	63.3	94.9

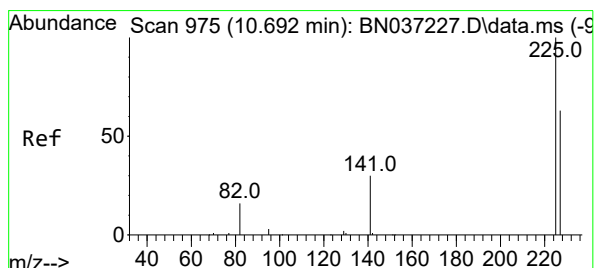
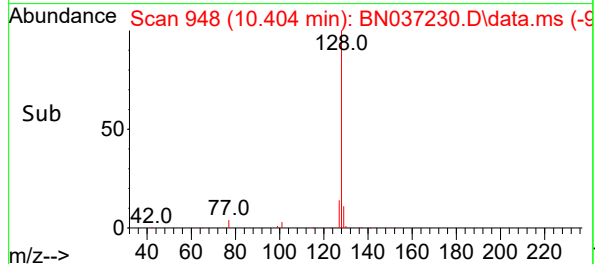
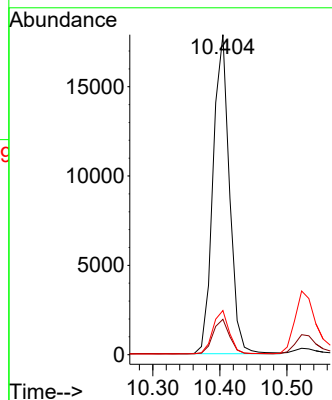
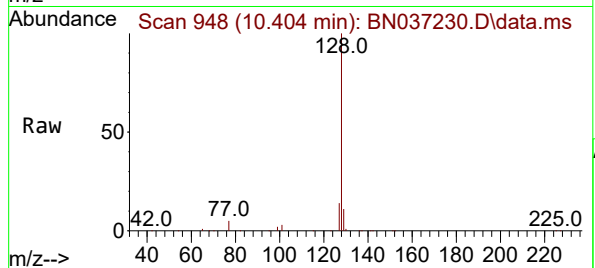




#9
Naphthalene
Concen: 3.208 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

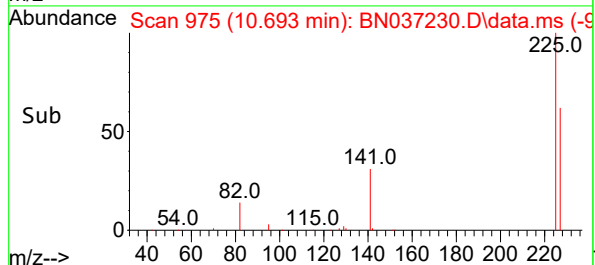
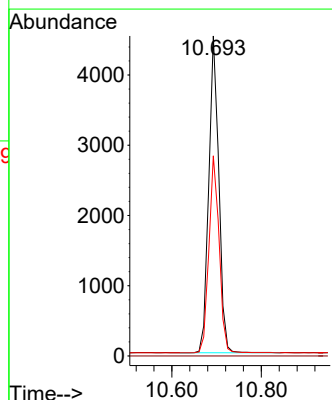
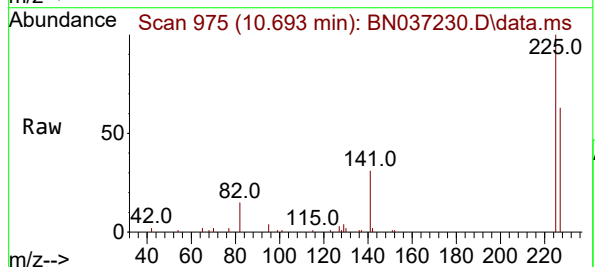
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

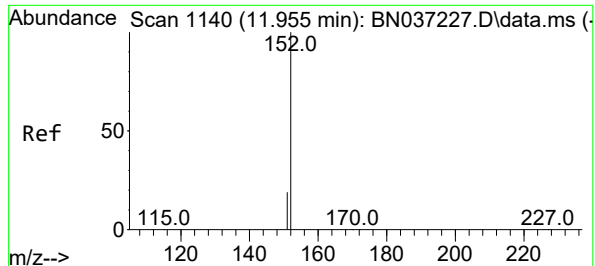
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	10.7	16.1
127	13.8	12.6	19.0



#10
Hexachlorobutadiene
Concen: 3.031 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	49.2	73.8

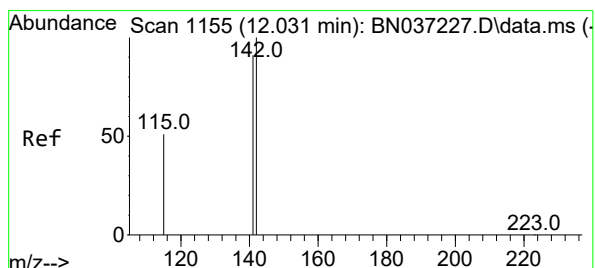
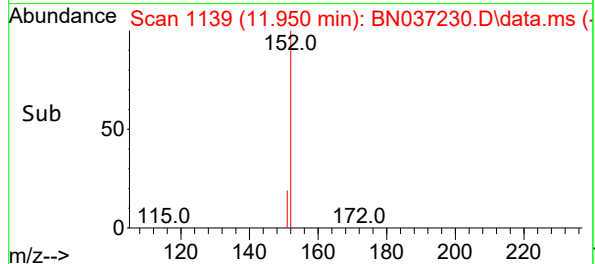
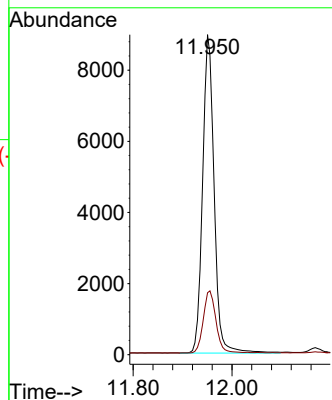
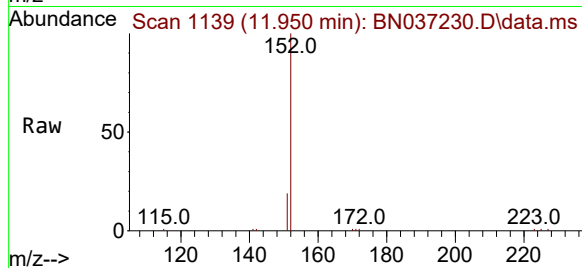




#11
2-Methylnaphthalene-d10
Concen: 3.290 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

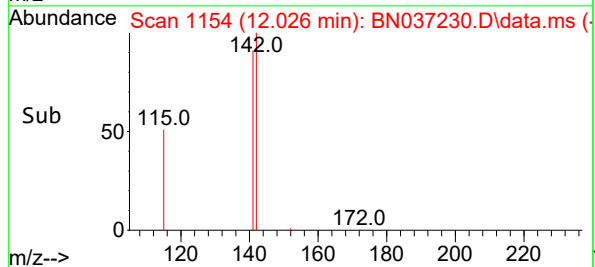
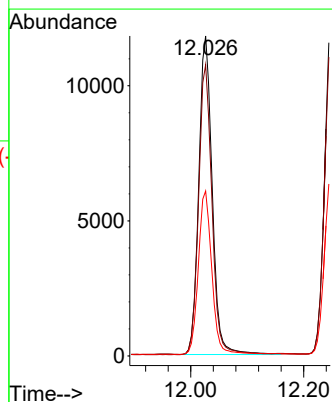
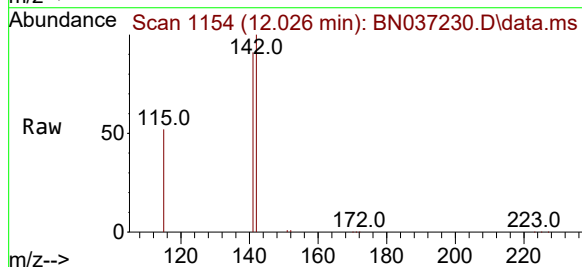
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ClientSampleId :
SSTDICC3.2

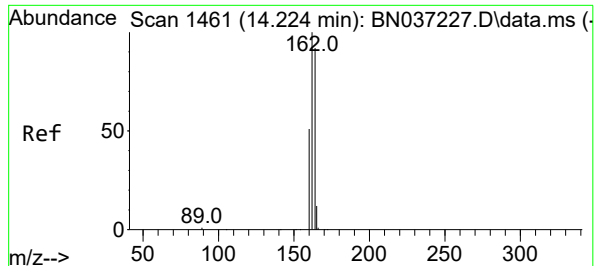
Tgt Ion:152 Resp: 14468
Ion Ratio Lower Upper
152 100
151 21.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 3.392 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:142 Resp: 19566
Ion Ratio Lower Upper
142 100
141 91.0 73.0 109.6
115 51.5 43.3 64.9

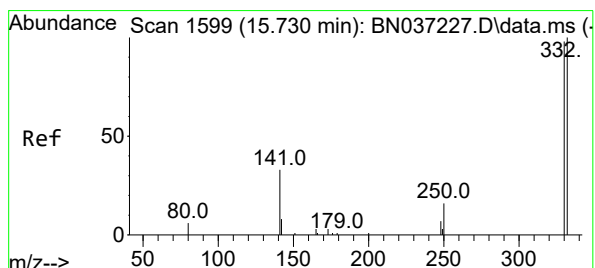
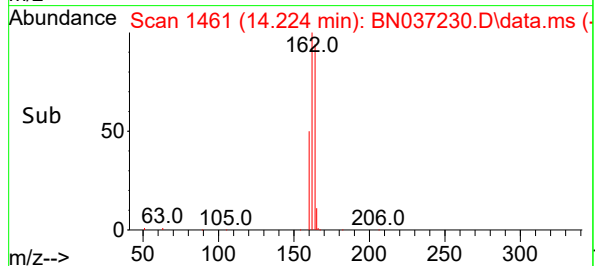
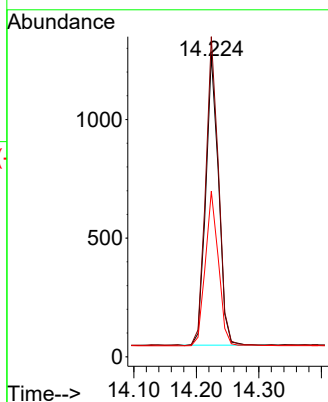
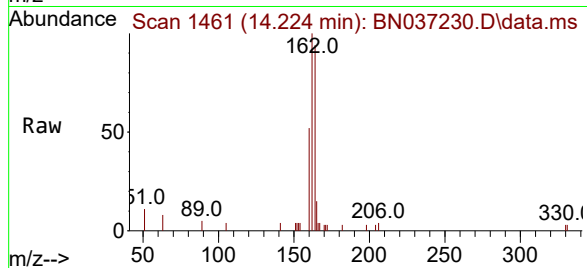




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

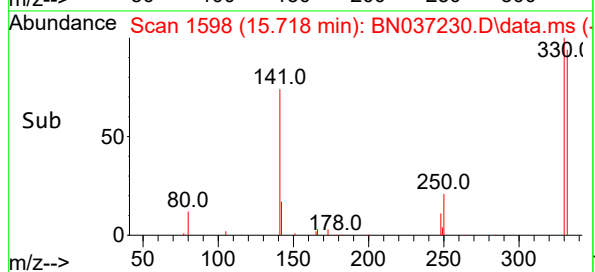
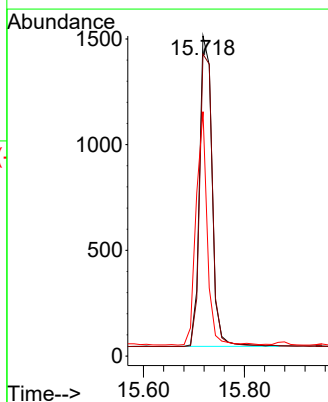
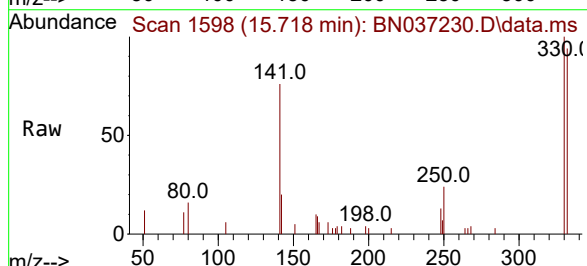
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BNA_N
ClientSampleId :
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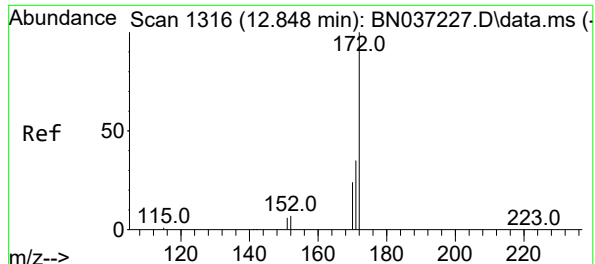
Tgt Ion:164 Resp: 1730
Ion Ratio Lower Upper
164 100
162 106.3 86.7 130.1
160 55.0 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 3.521 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:330 Resp: 2530
Ion Ratio Lower Upper
330 100
332 96.8 74.9 112.3
141 67.2 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 3.384 ng

RT: 12.843 min Scan# 1315

Delta R.T. -0.005 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

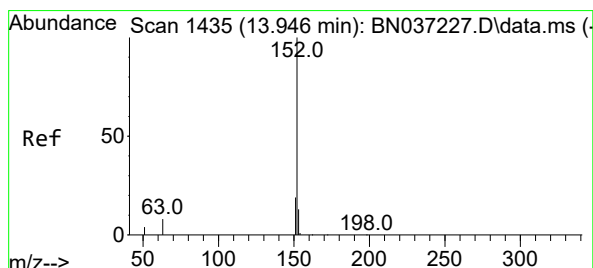
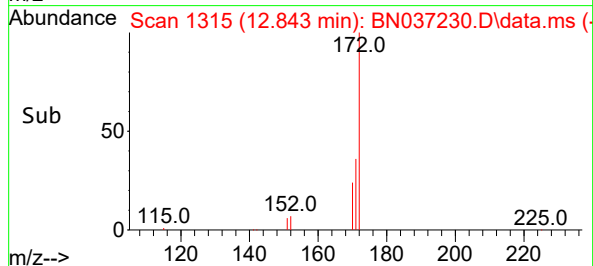
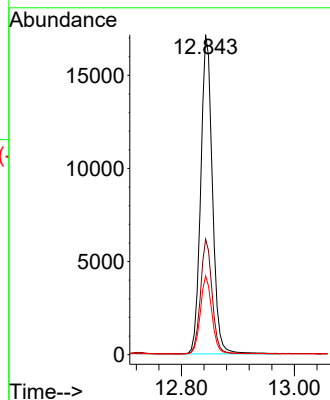
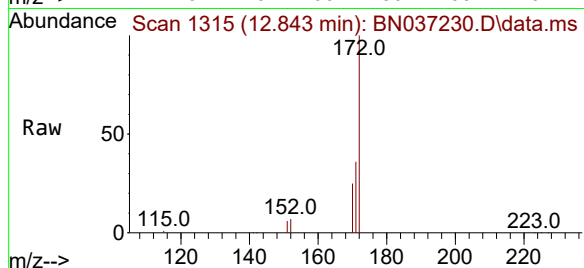
Tgt Ion:172 Resp: 24600

Ion Ratio Lower Upper

172 100

171 36.1 29.8 44.8

170 24.6 21.1 31.7



#16

Acenaphthylene

Concen: 3.366 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

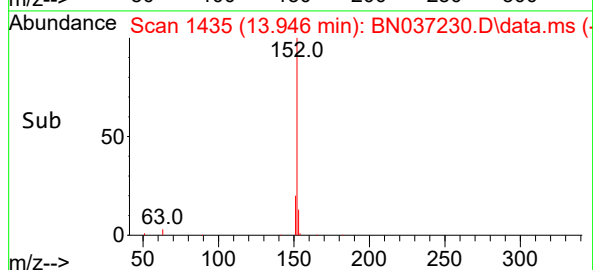
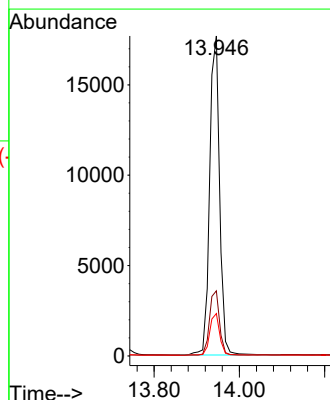
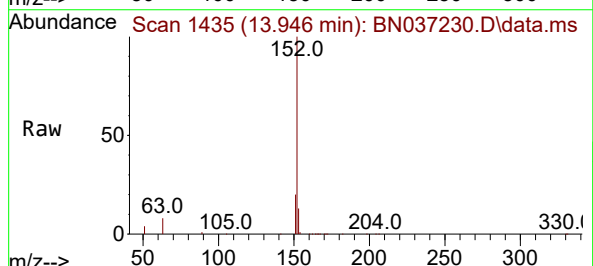
Tgt Ion:152 Resp: 28536

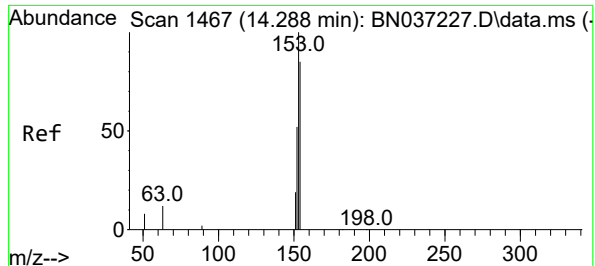
Ion Ratio Lower Upper

152 100

151 20.3 15.7 23.5

153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 3.334 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

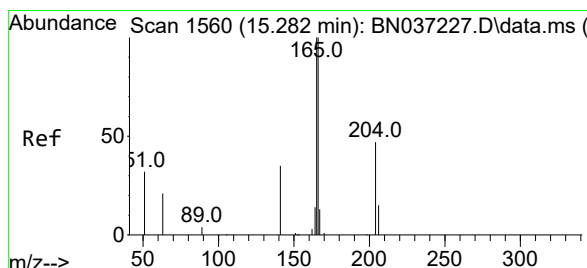
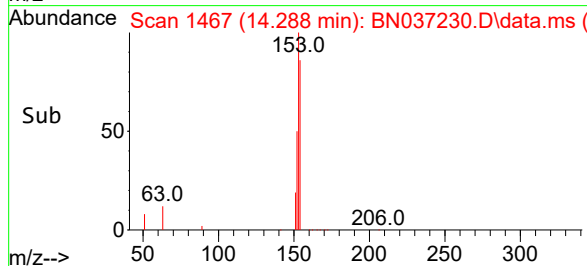
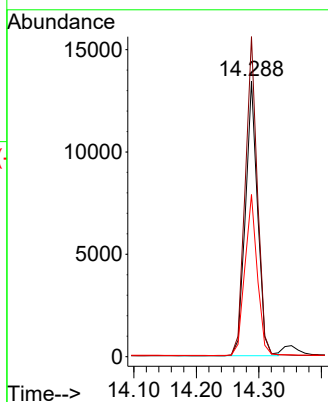
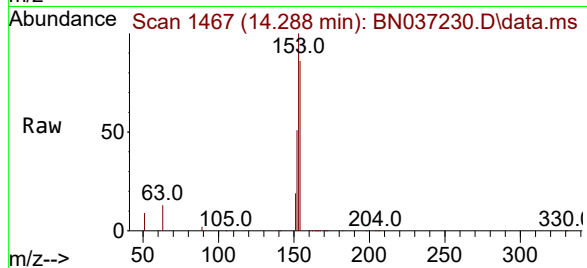
Tgt Ion:154 Resp: 18242

Ion Ratio Lower Upper

154 100

153 116.2 94.6 141.8

152 60.0 49.6 74.4



#18

Fluorene

Concen: 3.375 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

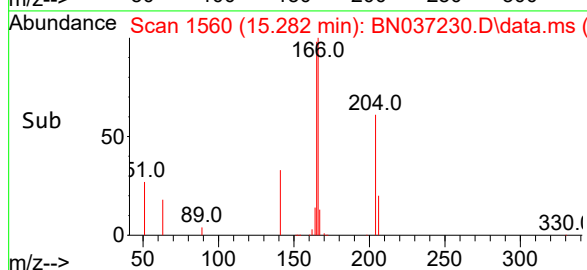
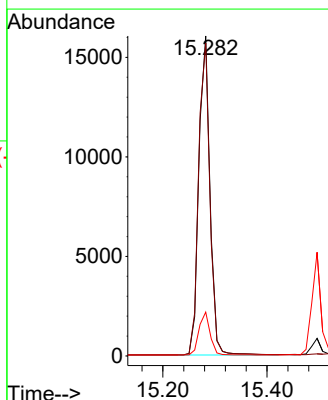
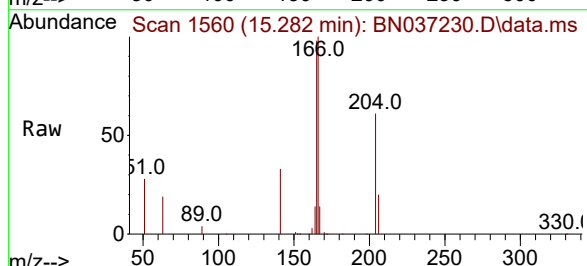
Tgt Ion:166 Resp: 23723

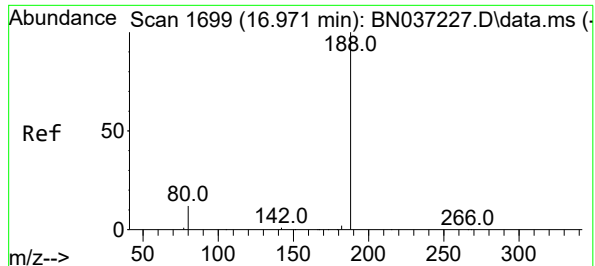
Ion Ratio Lower Upper

166 100

165 99.9 79.8 119.6

167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

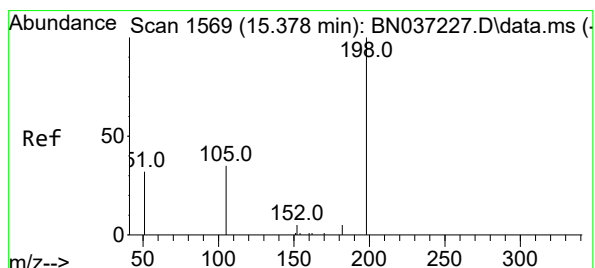
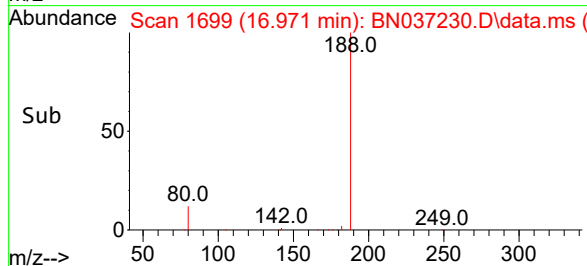
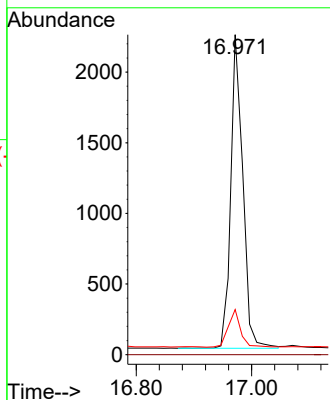
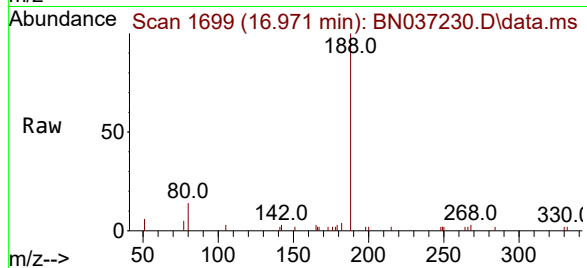
Tgt Ion:188 Resp: 3218

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.223 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

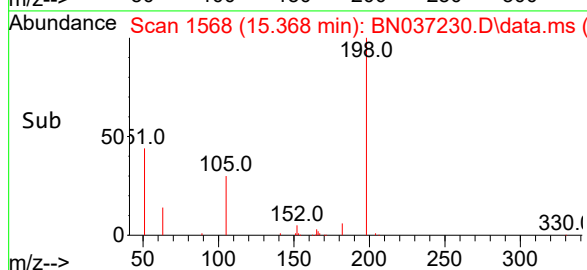
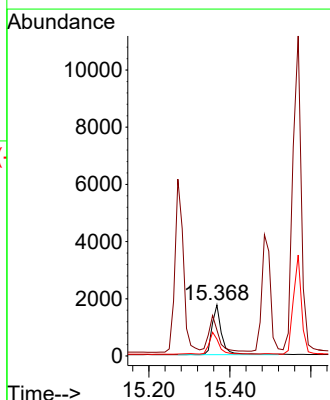
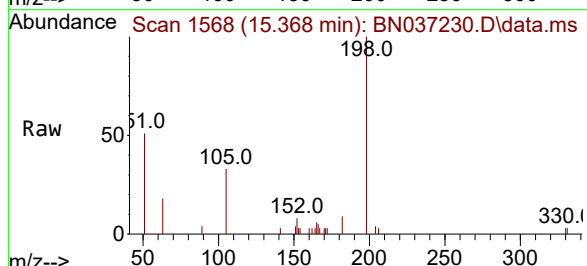
Tgt Ion:198 Resp: 2836

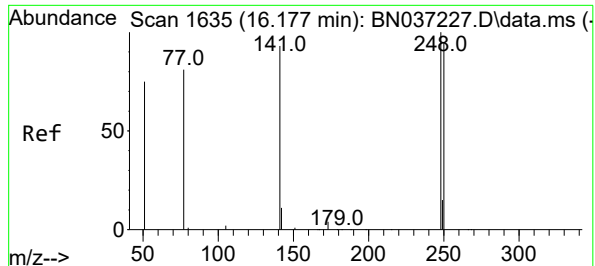
Ion Ratio Lower Upper

198 100

51 50.6 111.2 166.8#

105 32.9 54.0 81.0#





#21

4-Bromophenyl-phenylether

Concen: 3.389 ng

RT: 16.177 min Scan# 1635

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

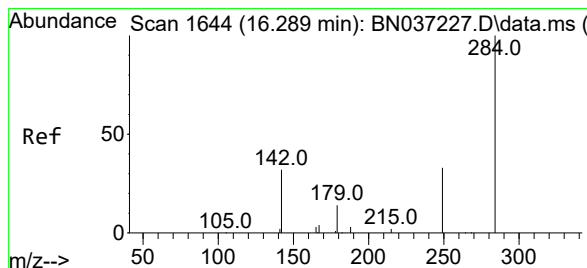
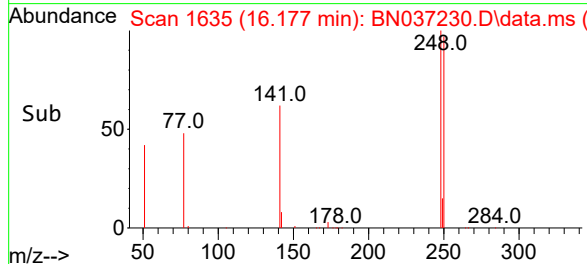
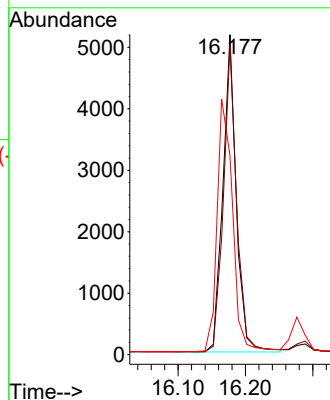
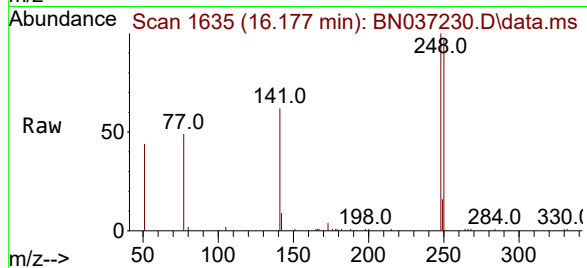
Tgt Ion:248 Resp: 7106

Ion Ratio Lower Upper

248 100

250 96.6 76.8 115.2

141 62.3 75.6 113.4#



#22

Hexachlorobenzene

Concen: 3.006 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

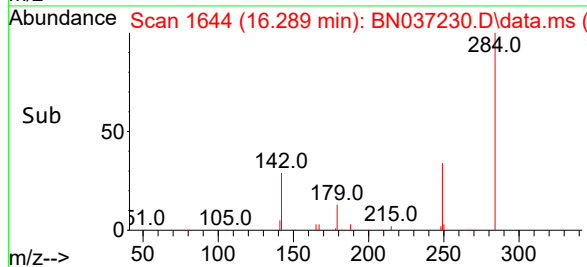
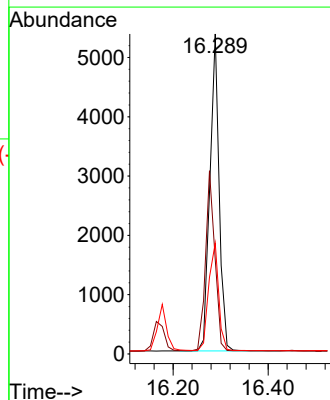
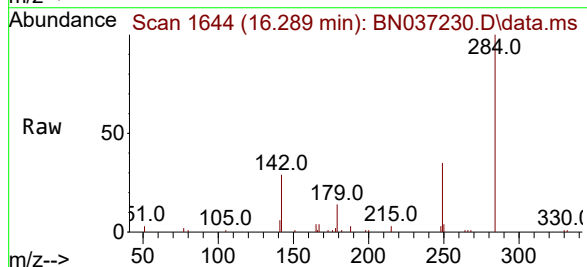
Tgt Ion:284 Resp: 7308

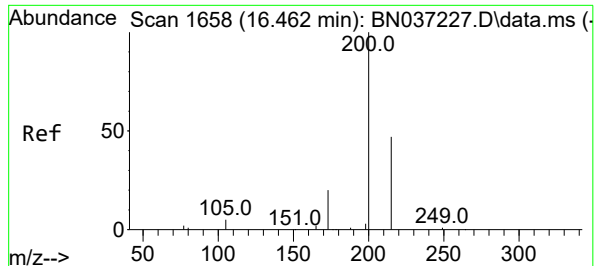
Ion Ratio Lower Upper

284 100

142 57.3 43.8 65.6

249 36.7 28.4 42.6





#23

Atrazine

Concen: 3.311 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.012 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

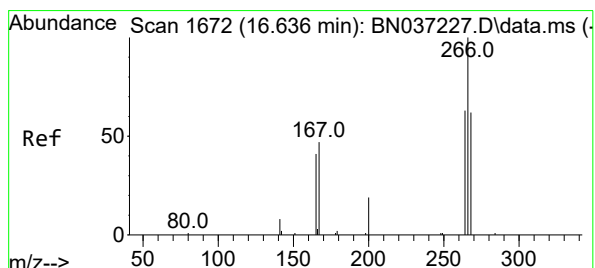
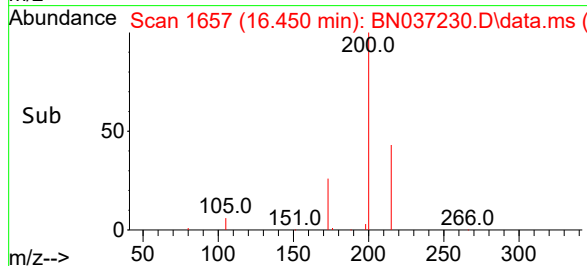
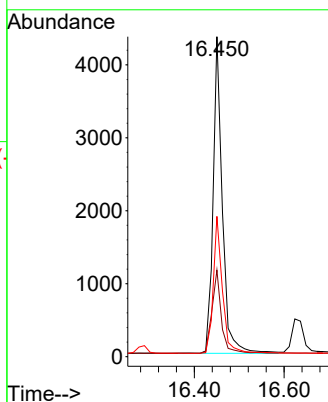
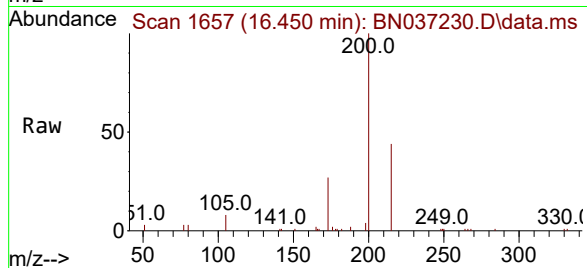
Tgt Ion:200 Resp: 6193

Ion Ratio Lower Upper

200 100

173 27.0 25.1 37.7

215 43.8 43.7 65.5



#24

Pentachlorophenol

Concen: 3.508 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

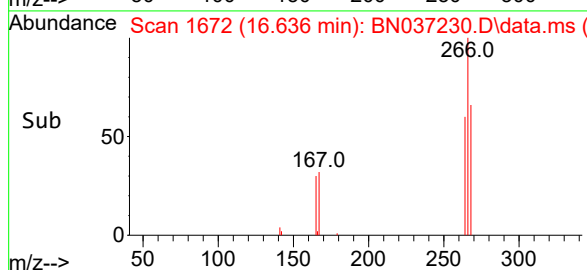
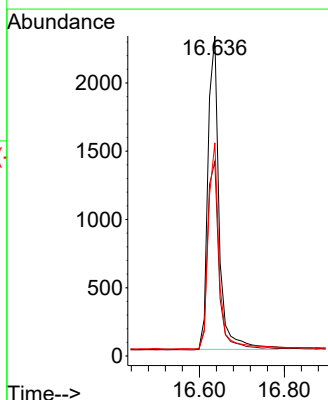
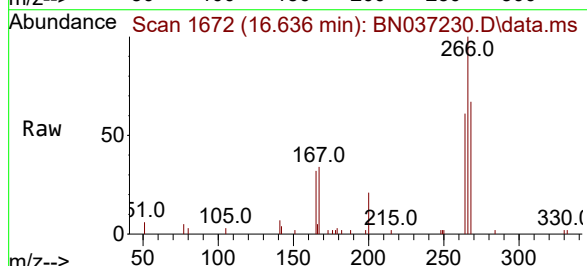
Tgt Ion:266 Resp: 4179

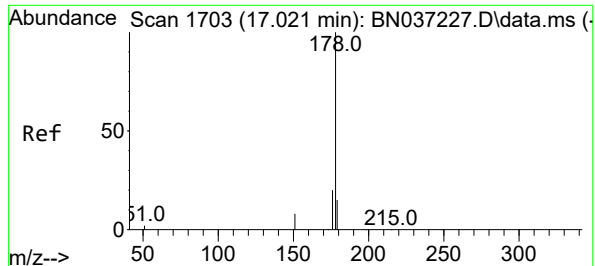
Ion Ratio Lower Upper

266 100

264 62.2 49.2 73.8

268 64.6 53.4 80.2

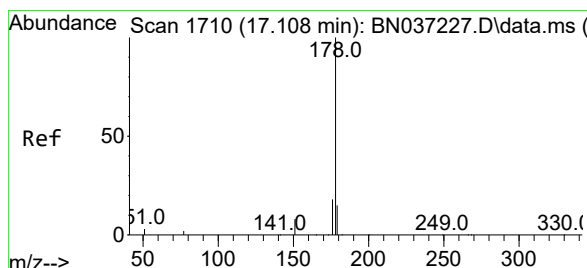
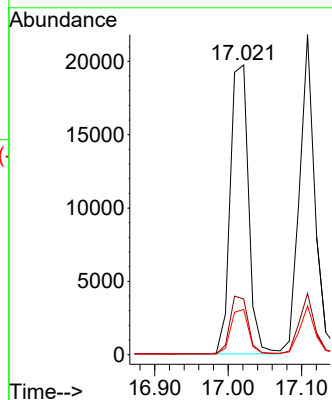
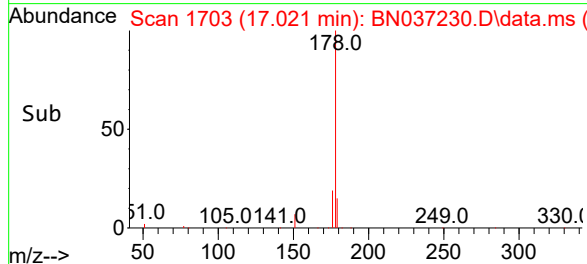
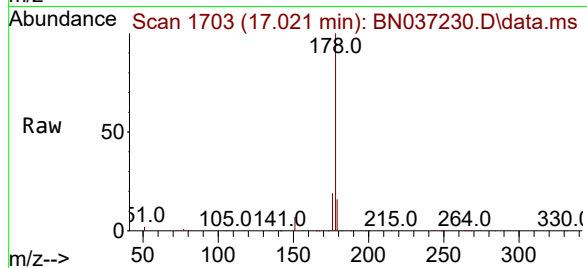




#25
Phenanthrene
Concen: 3.349 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

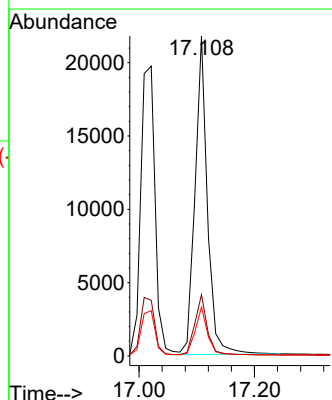
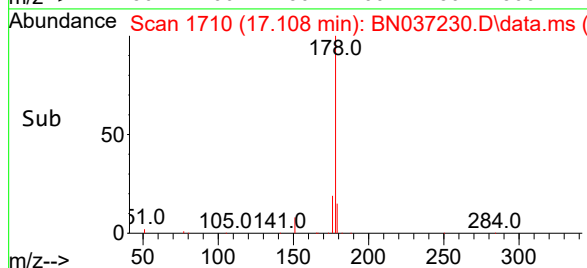
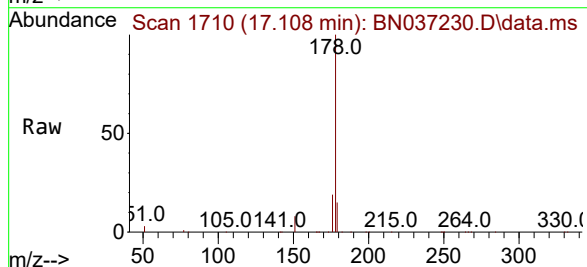
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

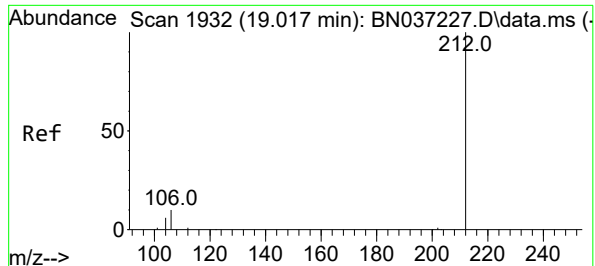
Tgt Ion:178 Resp: 34176
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 15.1 12.6 18.8



#26
Anthracene
Concen: 3.464 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:178 Resp: 32366
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.0 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.188 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

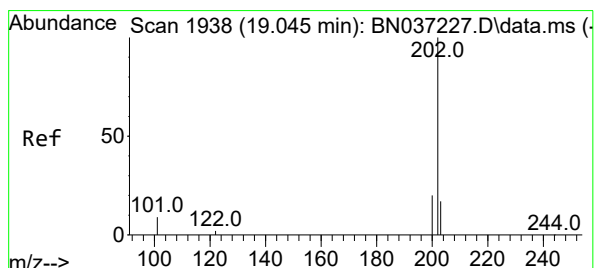
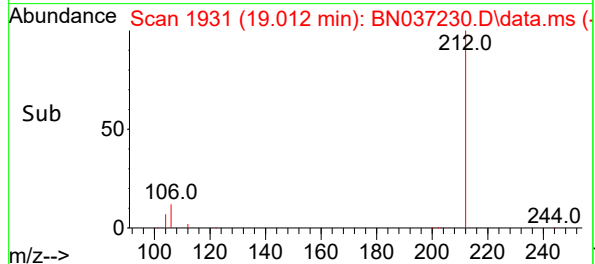
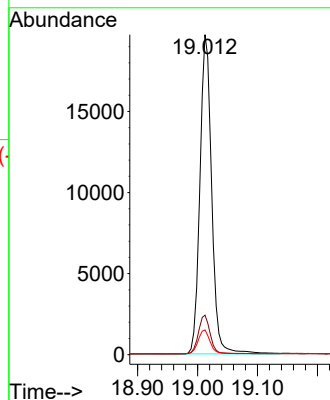
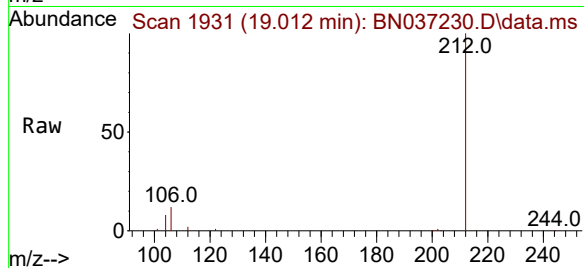
Tgt Ion:212 Resp: 26844

Ion Ratio Lower Upper

212 100

106 12.1 9.3 13.9

104 7.6 5.7 8.5



#28

Fluoranthene

Concen: 3.254 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

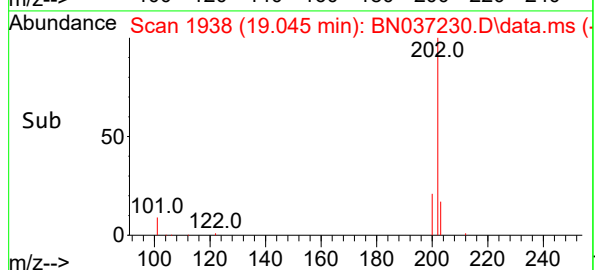
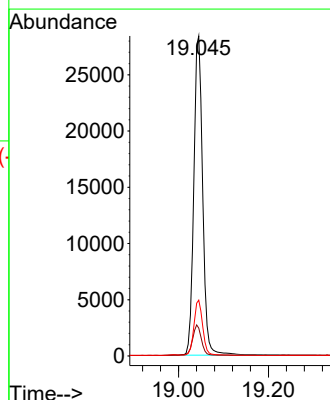
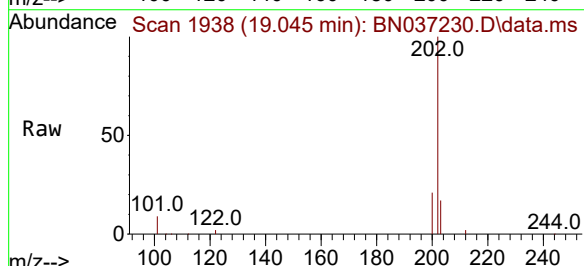
Tgt Ion:202 Resp: 38876

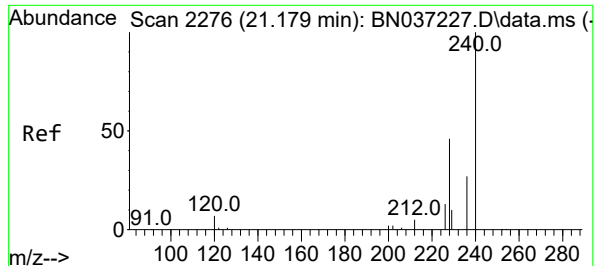
Ion Ratio Lower Upper

202 100

101 9.7 7.1 10.7

203 17.1 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

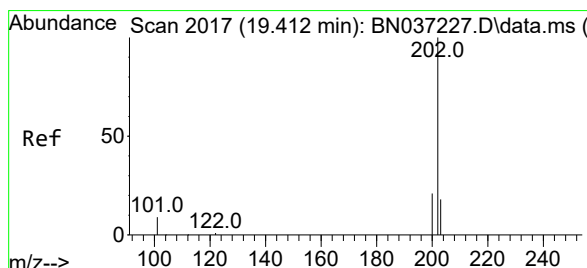
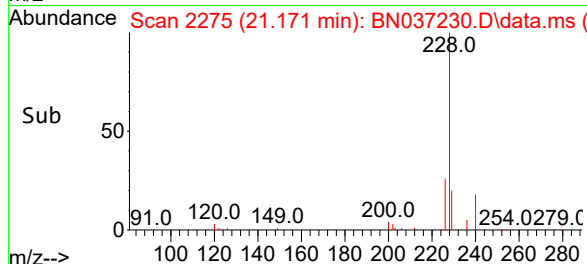
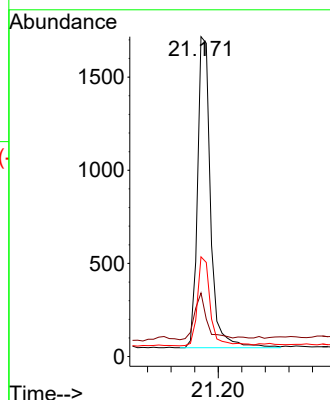
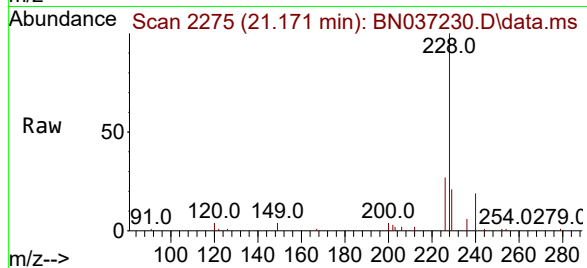
Tgt Ion:240 Resp: 2562

Ion Ratio Lower Upper

240 100

120 19.9 11.3 16.9#

236 31.2 24.4 36.6



#30

Pyrene

Concen: 3.219 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

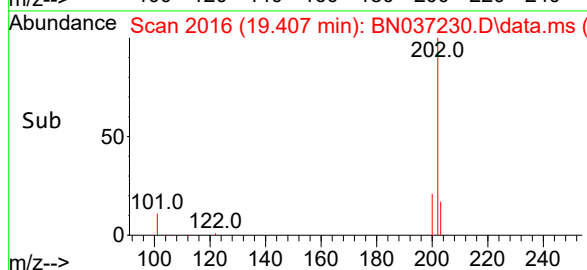
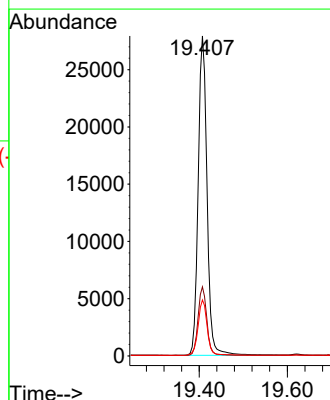
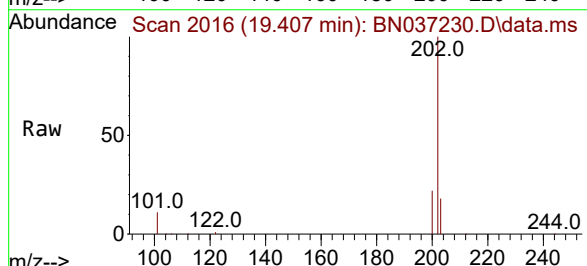
Tgt Ion:202 Resp: 38772

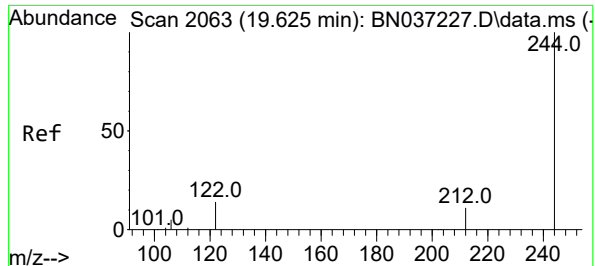
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

203 17.7 14.3 21.5

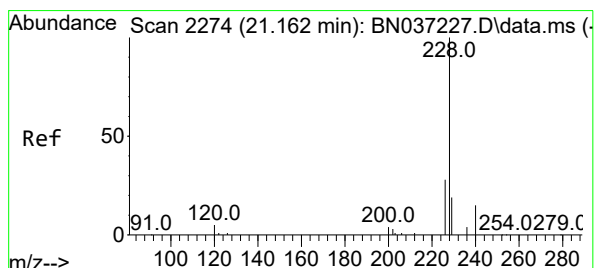
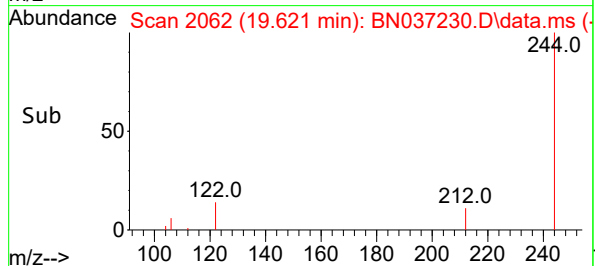
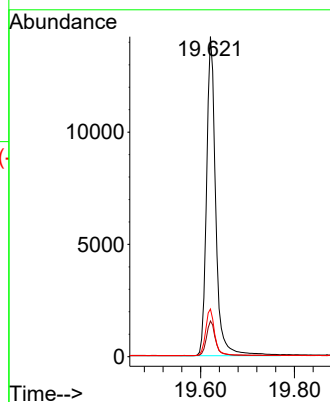
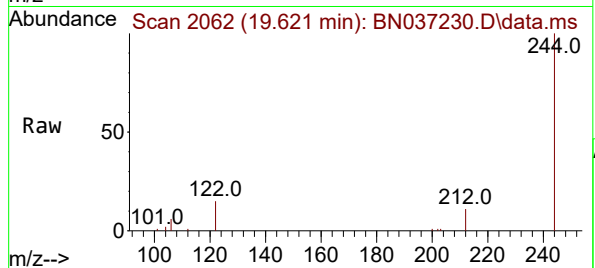




#31
Terphenyl-d14
Concen: 3.323 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

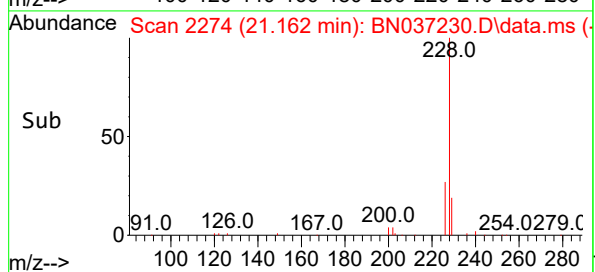
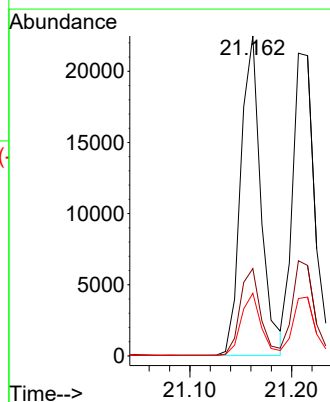
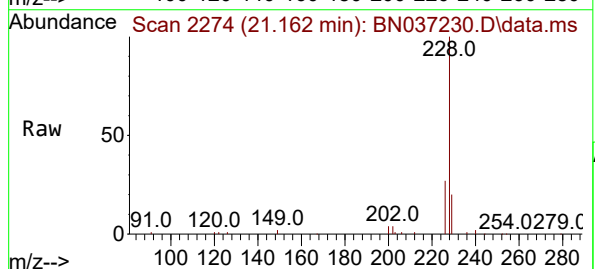
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

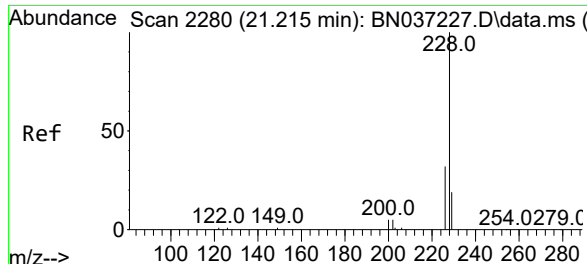
Tgt Ion:244 Resp: 19247
Ion Ratio Lower Upper
244 100
212 11.2 12.2 18.2#
122 14.9 14.3 21.5



#32
Benzo(a)anthracene
Concen: 3.571 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:228 Resp: 30893
Ion Ratio Lower Upper
228 100
226 27.3 23.8 35.8
229 19.6 17.0 25.4





#33

Chrysene

Concen: 3.106 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

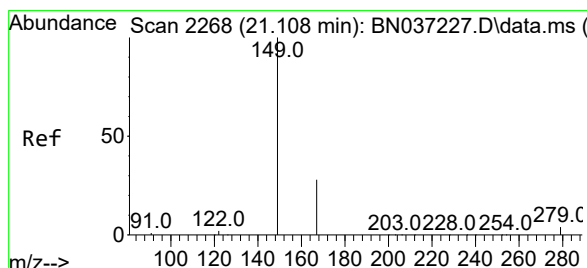
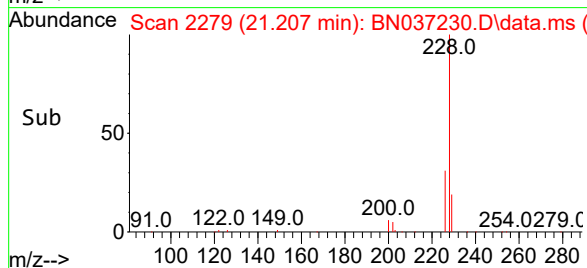
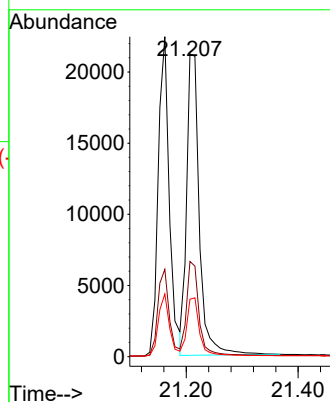
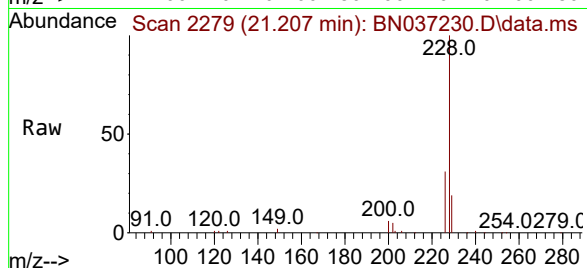
Tgt Ion:228 Resp: 33474

Ion Ratio Lower Upper

228 100

226 31.4 25.8 38.6

229 19.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.996 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

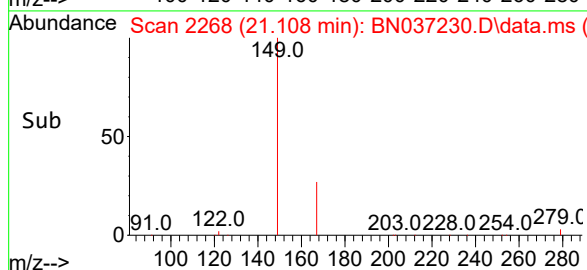
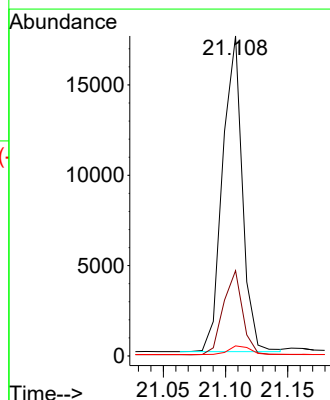
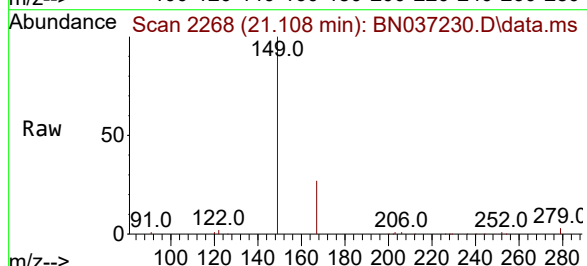
Tgt Ion:149 Resp: 19300

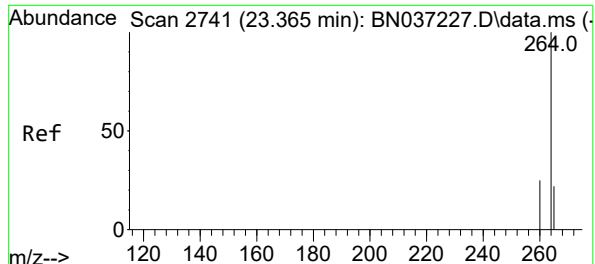
Ion Ratio Lower Upper

149 100

167 26.1 21.3 31.9

279 3.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

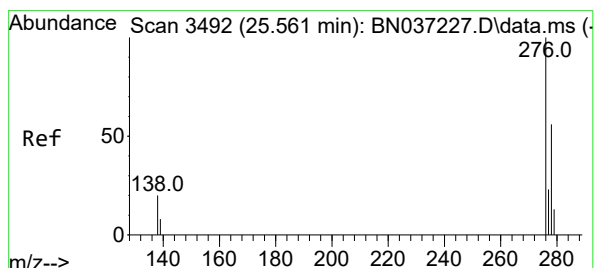
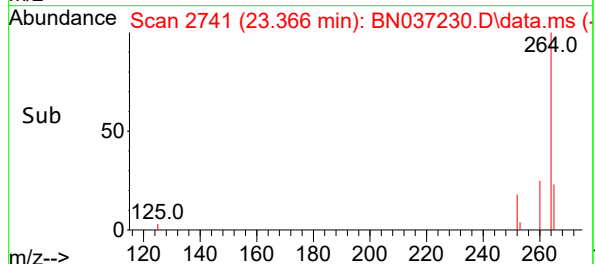
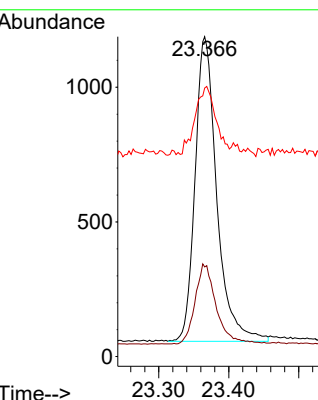
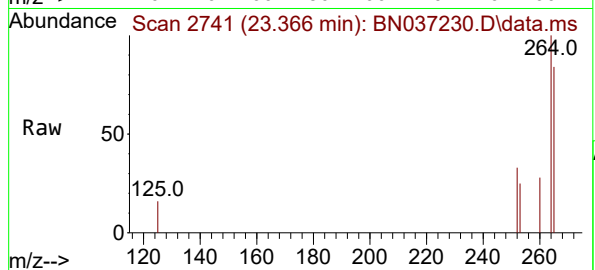
Tgt Ion:264 Resp: 2434

Ion Ratio Lower Upper

264 100

260 28.0 22.8 34.2

265 83.9 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.486 ng

RT: 25.556 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

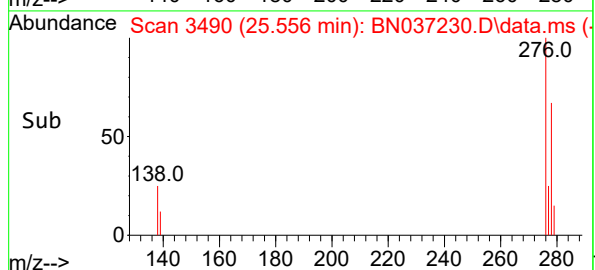
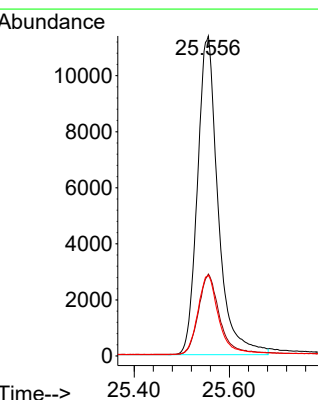
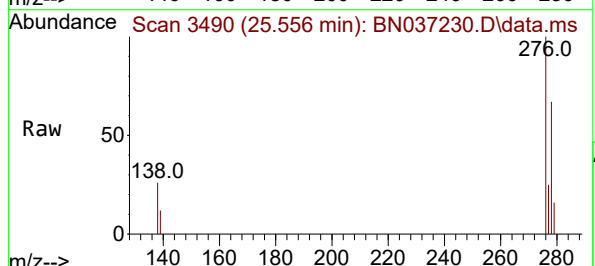
Tgt Ion:276 Resp: 34219

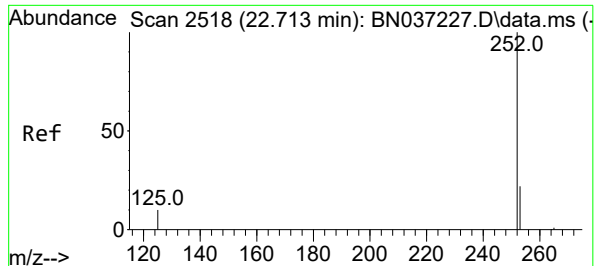
Ion Ratio Lower Upper

276 100

138 25.9 16.8 25.2#

277 25.3 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.447 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

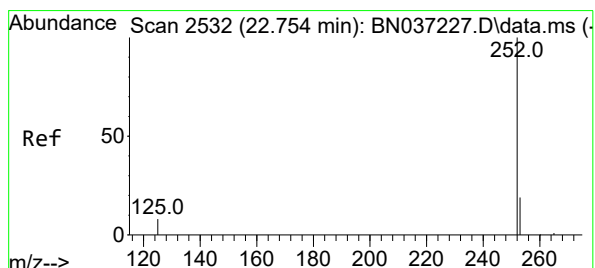
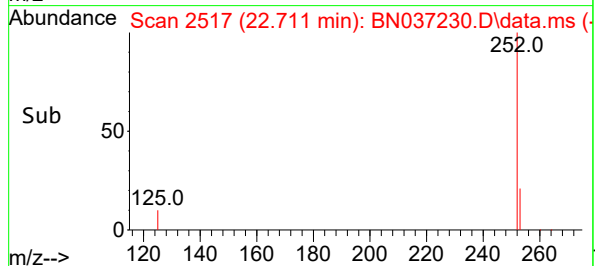
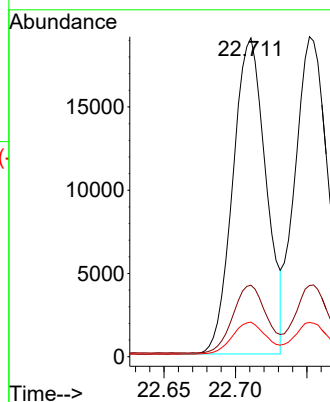
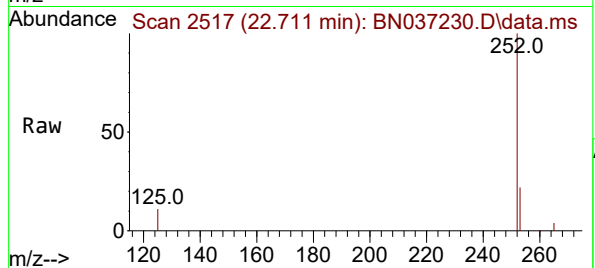
Tgt Ion:252 Resp: 30687

Ion Ratio Lower Upper

252 100

253 22.5 24.9 37.3#

125 10.8 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 3.248 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

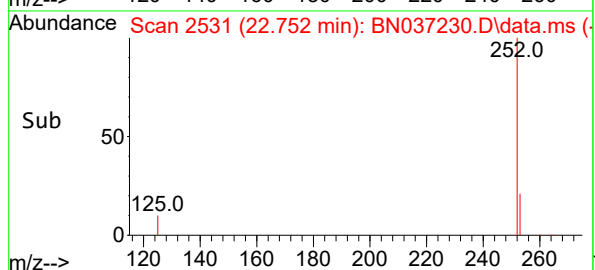
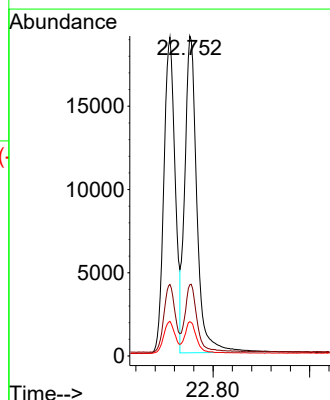
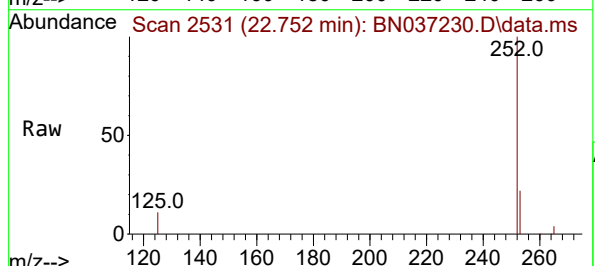
Tgt Ion:252 Resp: 33172

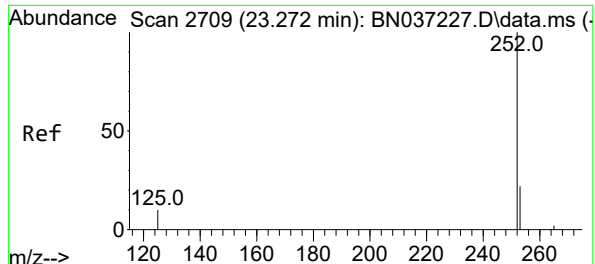
Ion Ratio Lower Upper

252 100

253 22.2 24.6 37.0#

125 10.7 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 3.361 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037230.D

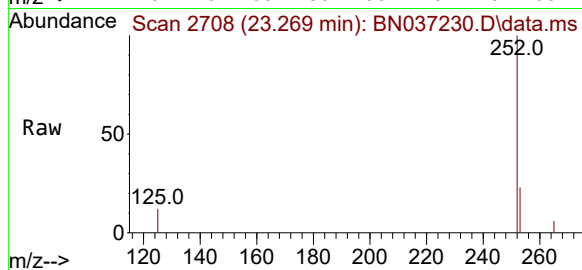
Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



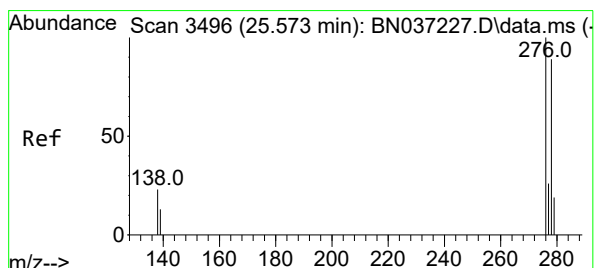
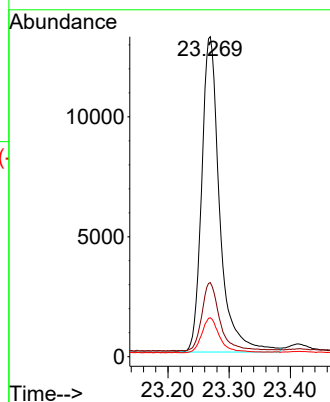
Tgt Ion:252 Resp: 26918

Ion Ratio Lower Upper

252 100

253 23.2 29.4 44.2#

125 12.2 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 3.751 ng

RT: 25.564 min Scan# 3493

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

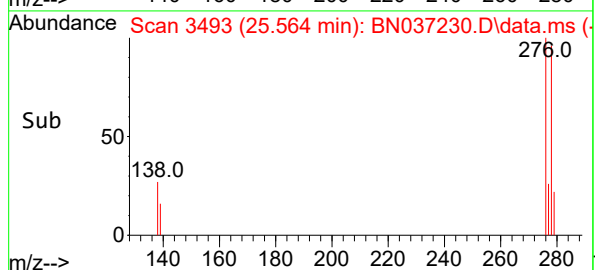
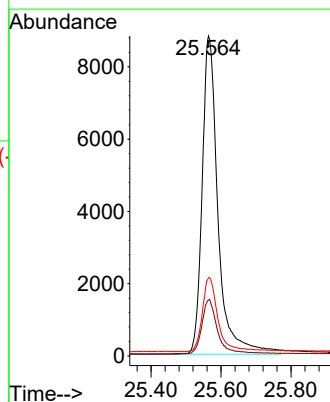
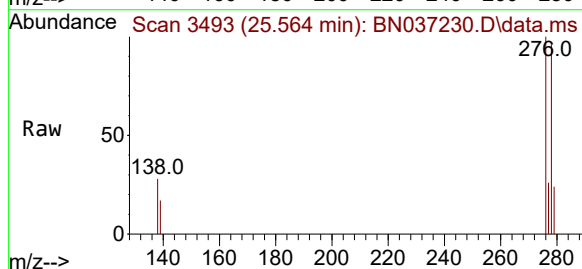
Tgt Ion:278 Resp: 27744

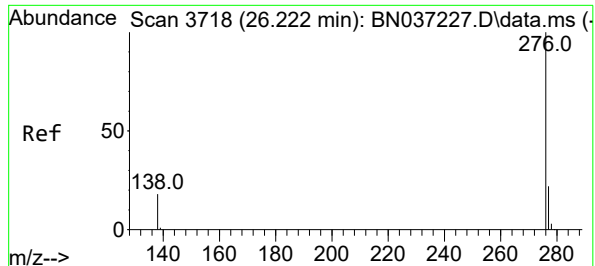
Ion Ratio Lower Upper

278 100

139 17.4 17.8 26.6#

279 24.5 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 3.350 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037230.D

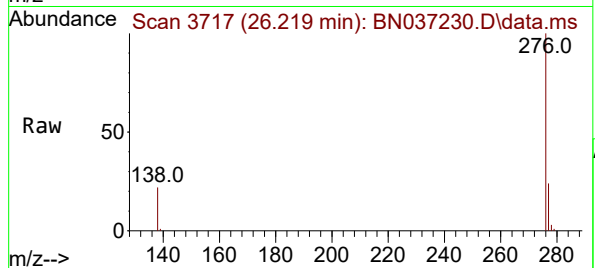
Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



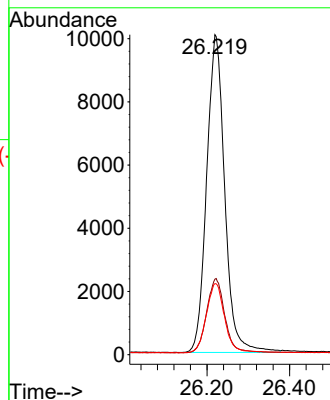
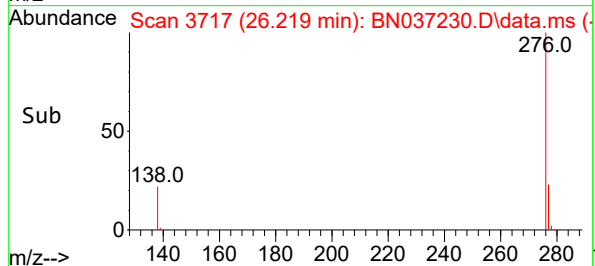
Tgt Ion:276 Resp: 30489

Ion Ratio Lower Upper

276 100

277 23.6 22.0 33.0

138 22.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037231.D
 Acq On : 13 Jun 2025 17:11
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

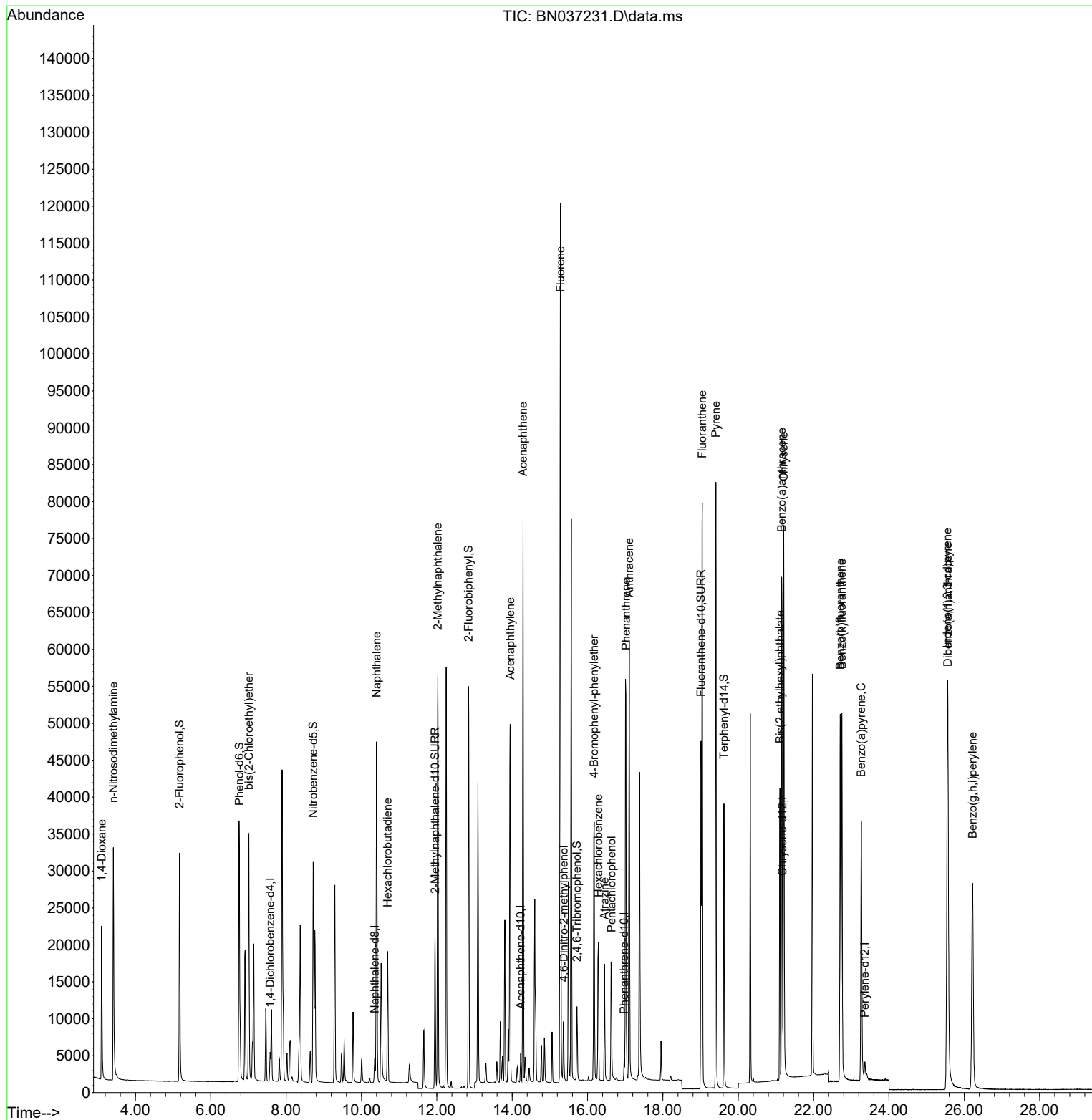
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1719	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3927	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	2088	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3744	0.400	ng	0.00
29) Chrysene-d12	21.171	240	3121	0.400	ng	0.00
35) Perylene-d12	23.360	264	2895	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	20890	4.948	ng	0.00
5) Phenol-d6	6.759	99	25211	5.666	ng	0.00
8) Nitrobenzene-d5	8.717	82	22243	5.731	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	27140	5.150	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	4635	5.344	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	44772	5.103	ng	0.00
27) Fluoranthene-d10	19.012	212	50205	5.125	ng	0.00
31) Terphenyl-d14	19.621	244	36062	5.111	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	10450	4.431	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.415	42	24357	4.533	ng	94
6) bis(2-Chloroethyl)ether	7.012	93	22354	5.609	ng	94
9) Naphthalene	10.404	128	56880	5.002	ng	94
10) Hexachlorobutadiene	10.692	225	12686	4.586	ng	# 98
12) 2-Methylnaphthalene	12.026	142	36587	5.292	ng	98
16) Acenaphthylene	13.946	152	52739	5.154	ng	99
17) Acenaphthene	14.288	154	33323	5.045	ng	97
18) Fluorene	15.282	166	43051	5.075	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	5424	4.992	ng	# 36
21) 4-Bromophenyl-phenylether	16.177	248	12785	5.240	ng	# 81
22) Hexachlorobenzene	16.289	284	13054	4.616	ng	98
23) Atrazine	16.450	200	11399	5.239	ng	# 87
24) Pentachlorophenol	16.636	266	8014	5.782	ng	97
25) Phenanthrene	17.021	178	62123	5.232	ng	99
26) Anthracene	17.108	178	59009	5.429	ng	99
28) Fluoranthene	19.045	202	71952	5.177	ng	98
30) Pyrene	19.407	202	72342	4.930	ng	99
32) Benzo(a)anthracene	21.153	228	58498	5.551	ng	97
33) Chrysene	21.206	228	63057	4.803	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	37466	4.774	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.552	276	65610	5.620	ng	# 94
37) Benzo(b)fluoranthene	22.708	252	58631	5.536	ng	# 85
38) Benzo(k)fluoranthene	22.749	252	62537	5.148	ng	# 85
39) Benzo(a)pyrene	23.266	252	51138	5.368	ng	# 78
40) Dibenzo(a,h)anthracene	25.564	278	51648	5.871	ng	# 81
41) Benzo(g,h,i)perylene	26.219	276	56339	5.204	ng	96

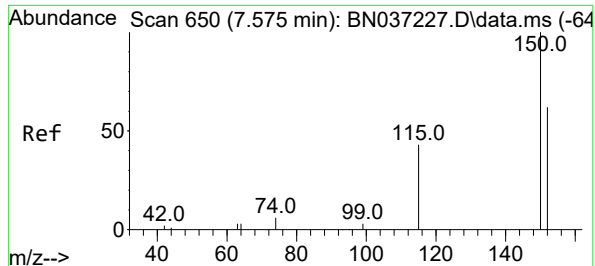
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037231.D
Acq On : 13 Jun 2025 17:11
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

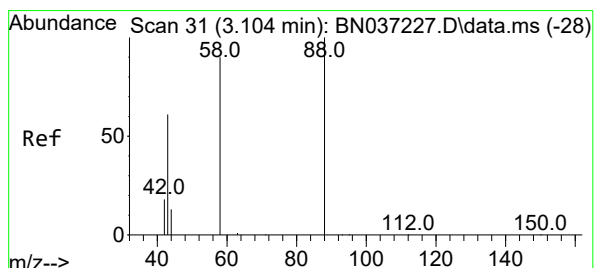
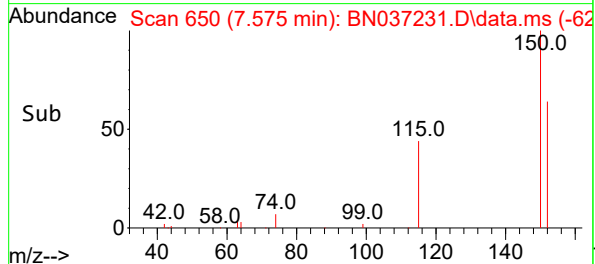
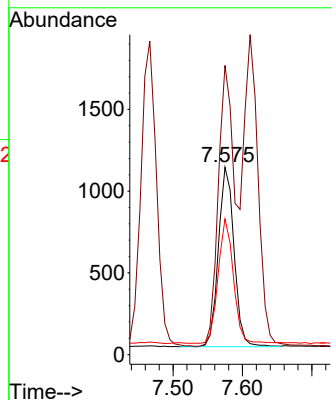
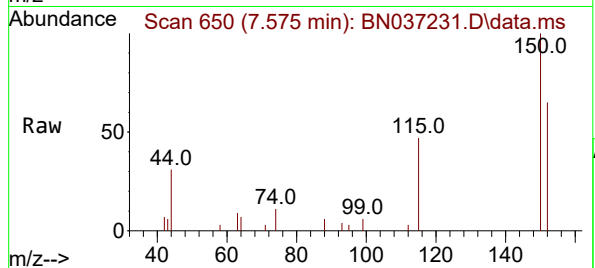




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

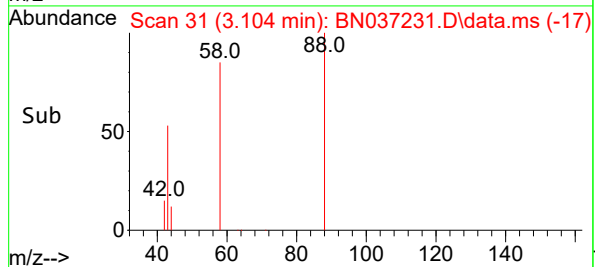
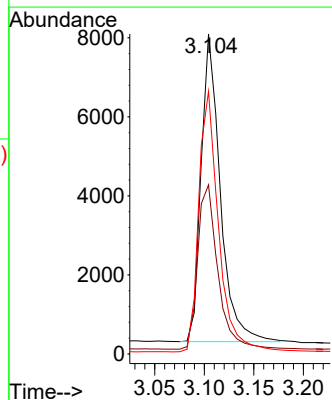
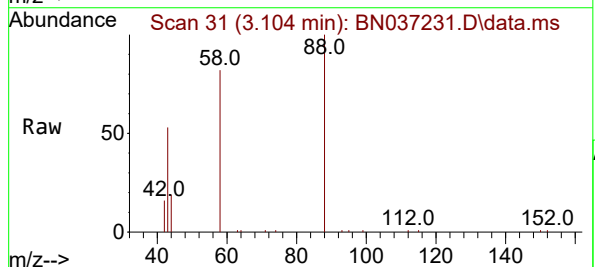
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

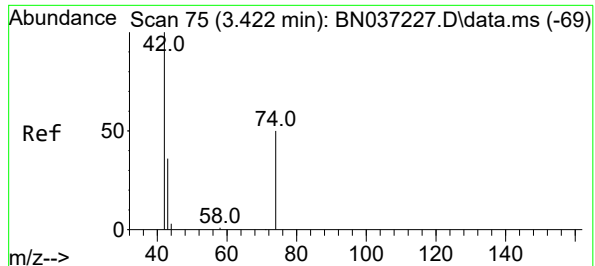
Tgt Ion:152 Resp: 1719
Ion Ratio Lower Upper
152 100
150 154.4 125.2 187.8
115 72.4 58.4 87.6



#2
1,4-Dioxane
Concen: 4.431 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 88 Resp: 10450
Ion Ratio Lower Upper
88 100
43 56.4 52.6 79.0
58 87.7 73.5 110.3

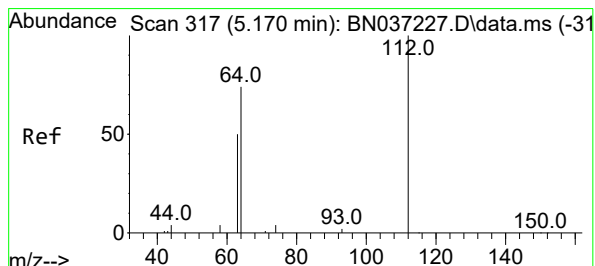
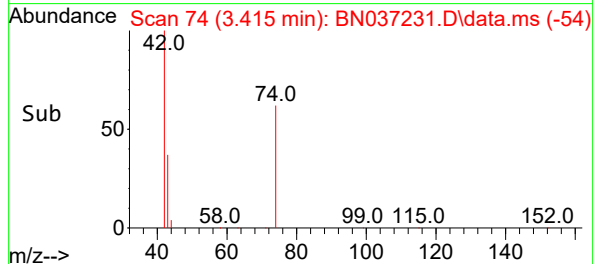
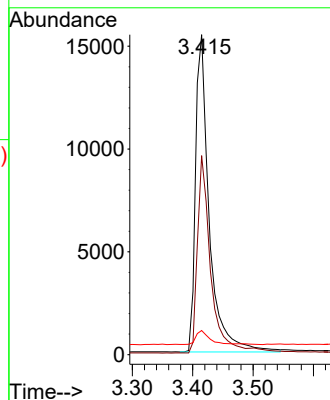
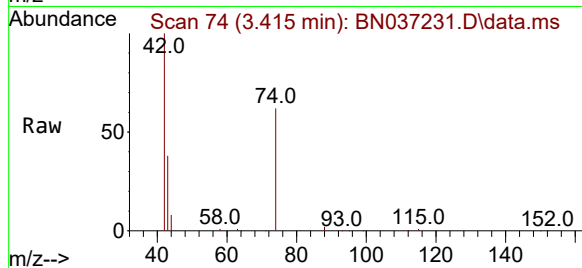




#3
n-Nitrosodimethylamine
Concen: 4.533 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

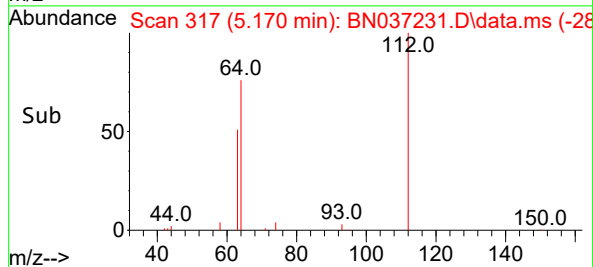
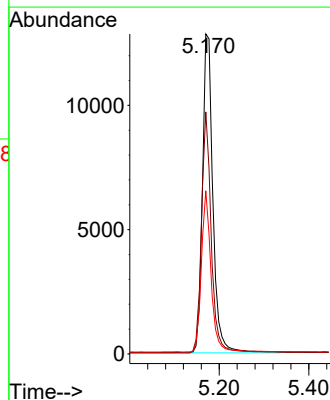
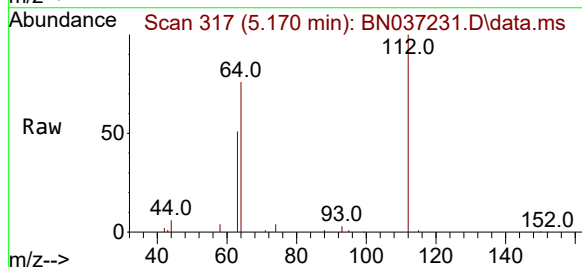
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

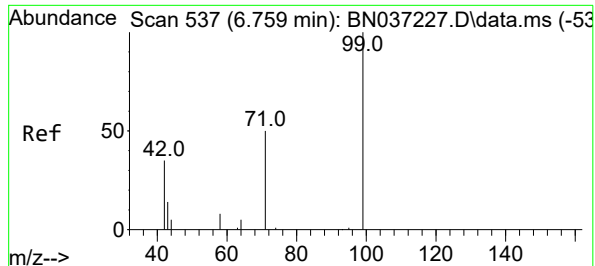
Tgt Ion: 42 Resp: 24357
Ion Ratio Lower Upper
42 100
74 60.7 44.6 66.8
44 4.7 3.5 5.3



#4
2-Fluorophenol
Concen: 4.948 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 112 Resp: 20890
Ion Ratio Lower Upper
112 100
64 70.8 57.2 85.8
63 47.0 39.8 59.6

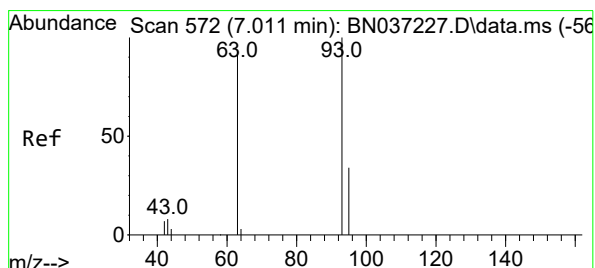
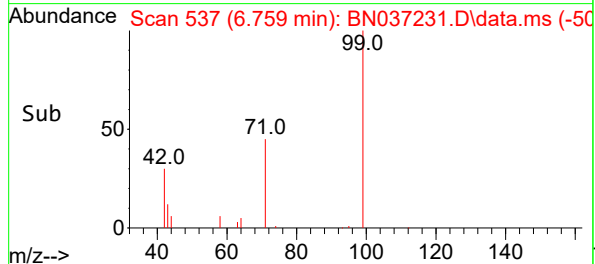
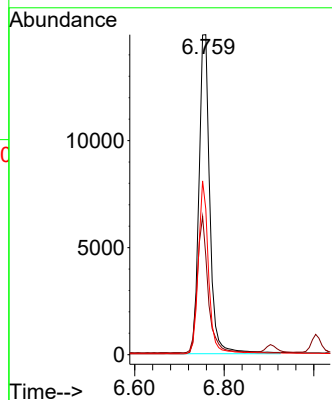
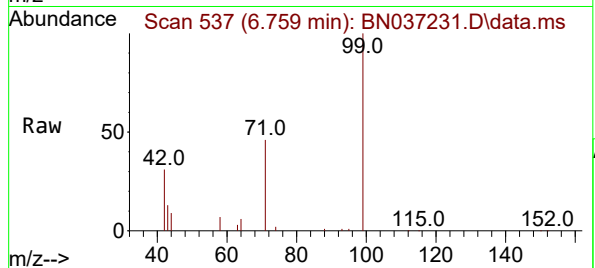




#5
Phenol-d6
Concen: 5.666 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

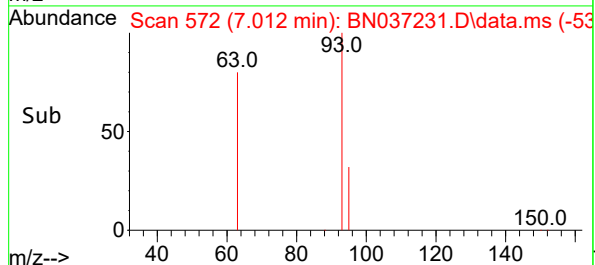
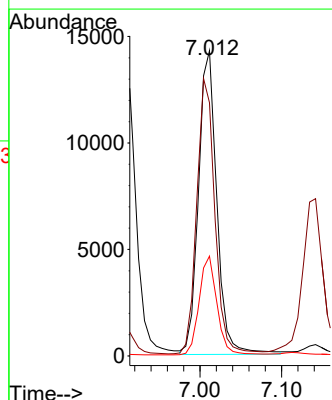
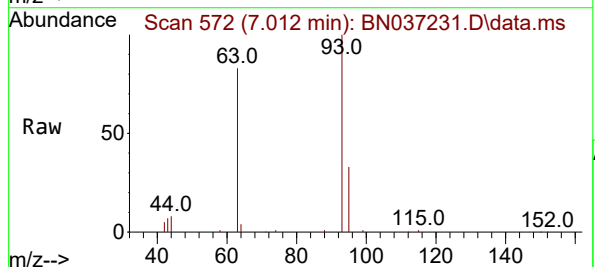
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

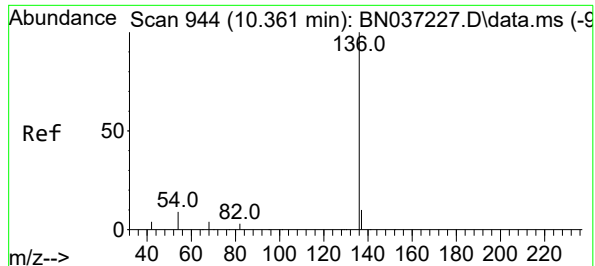
Tgt Ion: 99 Resp: 25211
Ion Ratio Lower Upper
99 100
42 42.3 36.2 54.4
71 50.9 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 5.609 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 93 Resp: 22354
Ion Ratio Lower Upper
93 100
63 88.9 75.2 112.8
95 31.6 28.3 42.5

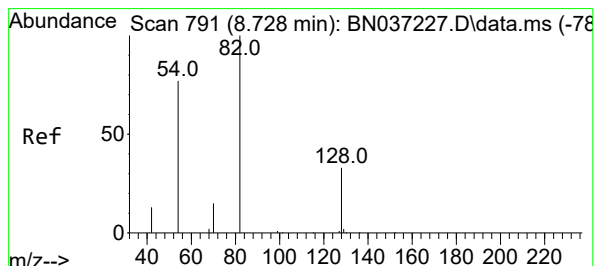
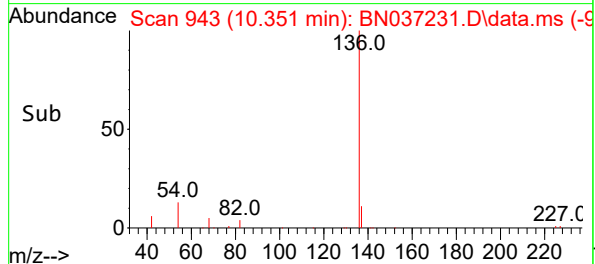
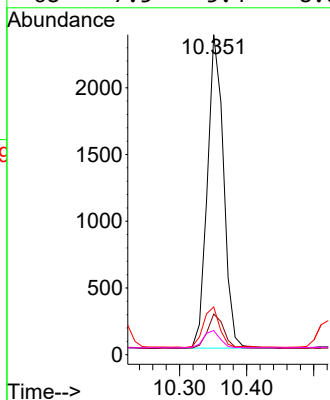
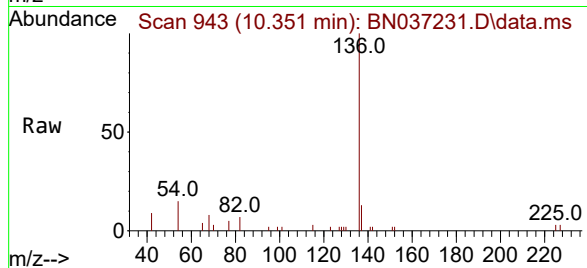




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

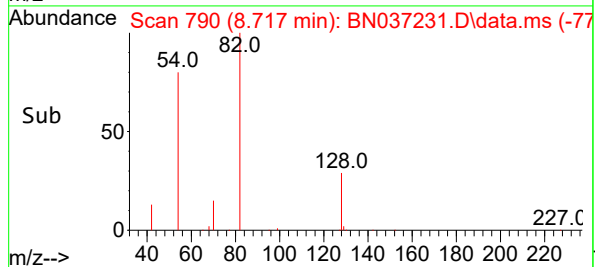
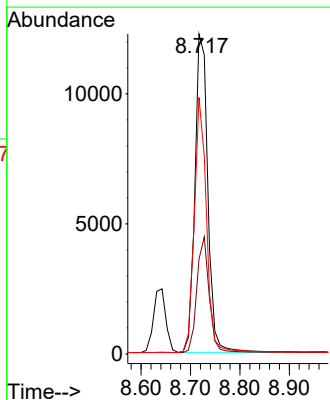
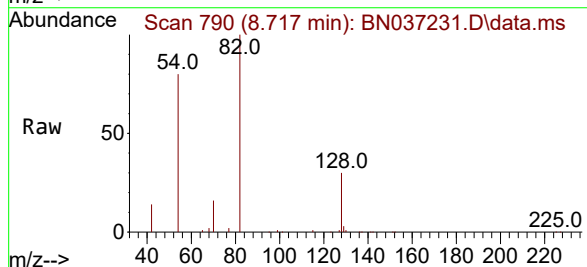
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

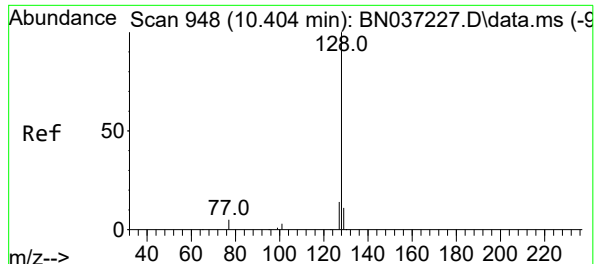
Tgt Ion:136	Resp:	3927
Ion	Ratio	Lower Upper
136	100	
137	12.7	10.6 15.8
54	14.9	9.2 13.8#
68	7.5	5.4 8.0



#8
Nitrobenzene-d5
Concen: 5.731 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 82	Resp:	22243
Ion	Ratio	Lower Upper
82	100	
128	29.6	31.2 46.8#
54	80.1	63.3 94.9





#9

Naphthalene

Concen: 5.002 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

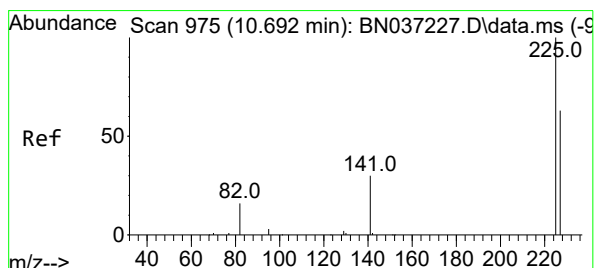
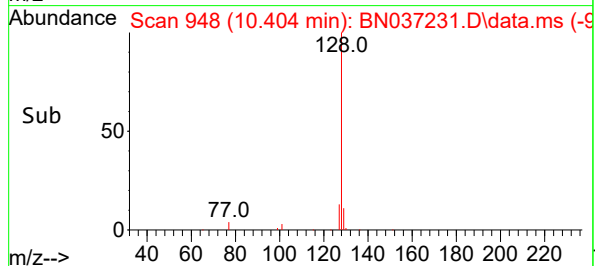
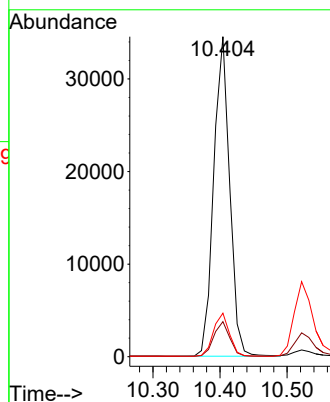
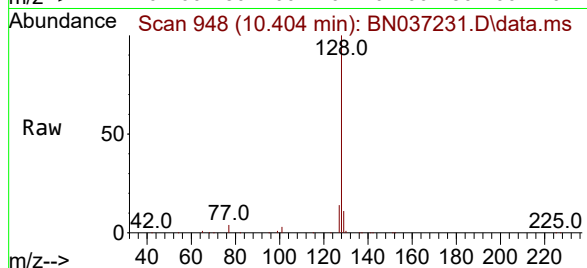
Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:	128	Resp:	56880
Ion	Ratio	Lower	Upper
128	100		
129	10.9	10.7	16.1
127	13.6	12.6	19.0



#10

Hexachlorobutadiene

Concen: 4.586 ng

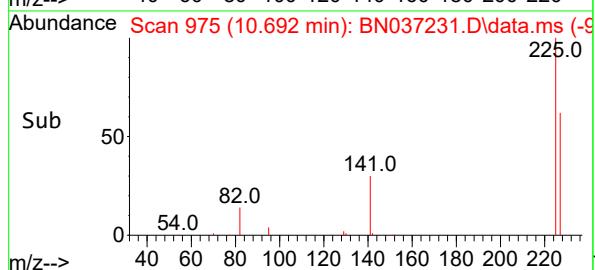
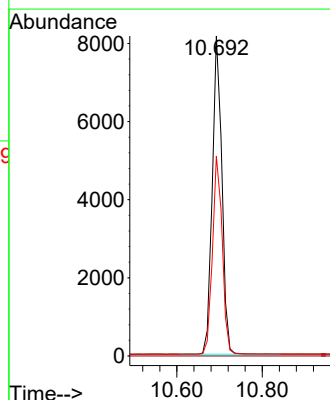
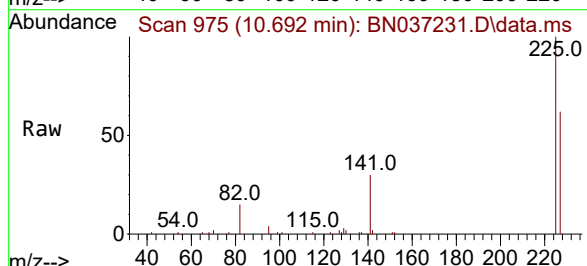
RT: 10.692 min Scan# 975

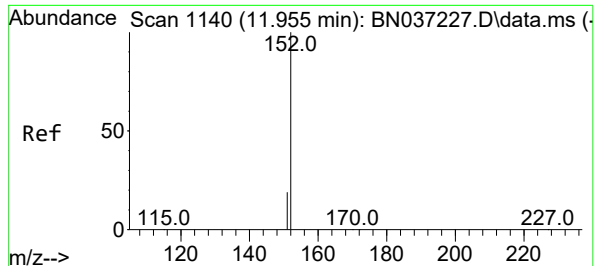
Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Tgt Ion:	225	Resp:	12686
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	49.2	73.8

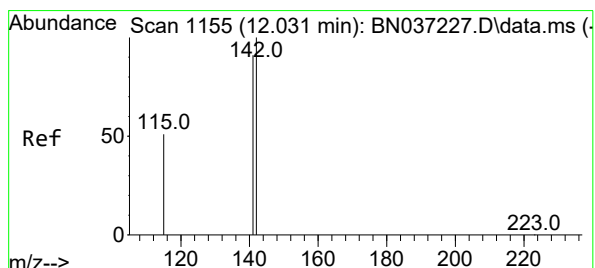
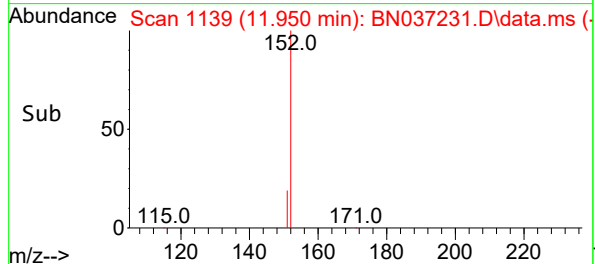
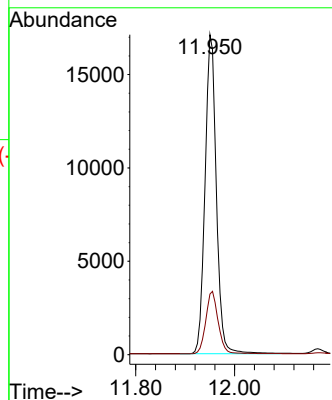
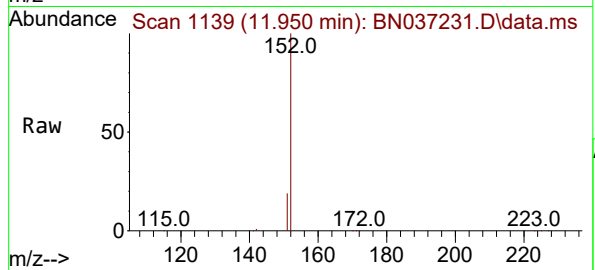




#11
2-Methylnaphthalene-d10
Concen: 5.150 ng
RT: 11.950 min Scan# 1140
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

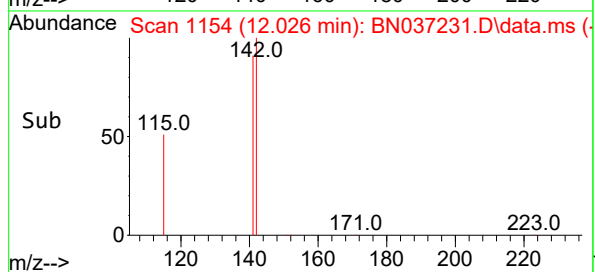
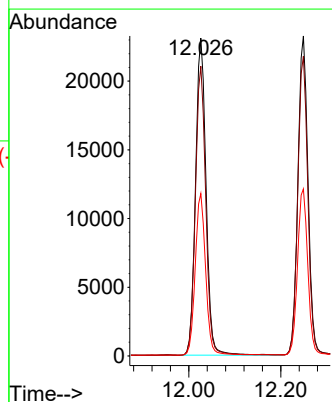
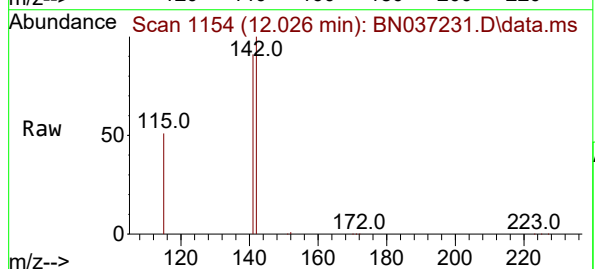
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

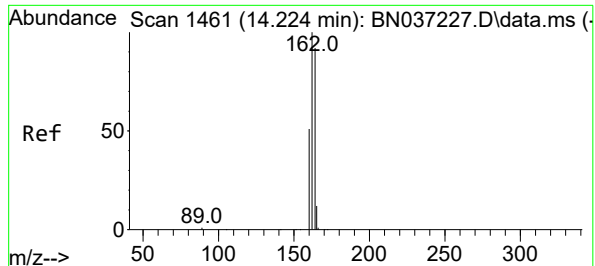
Tgt Ion:152 Resp: 27140
Ion Ratio Lower Upper
152 100
151 21.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 5.292 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:142 Resp: 36587
Ion Ratio Lower Upper
142 100
141 91.2 73.0 109.6
115 51.1 43.3 64.9

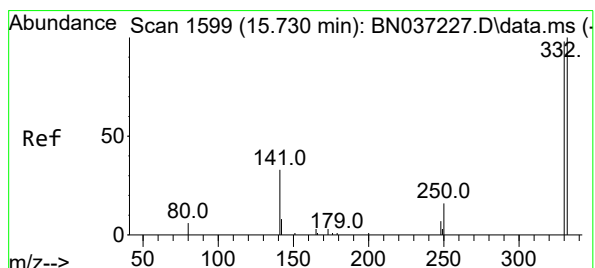
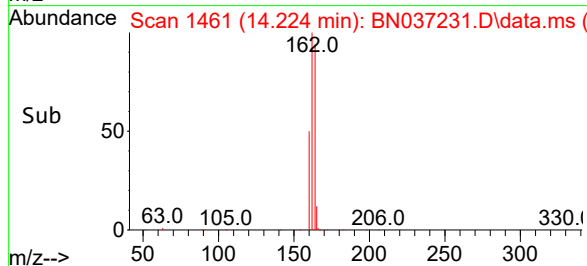
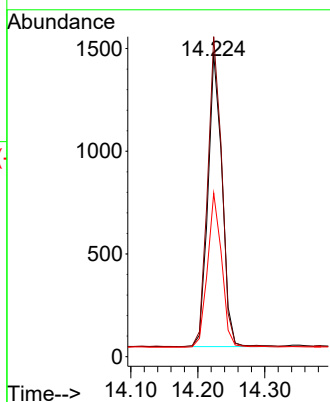
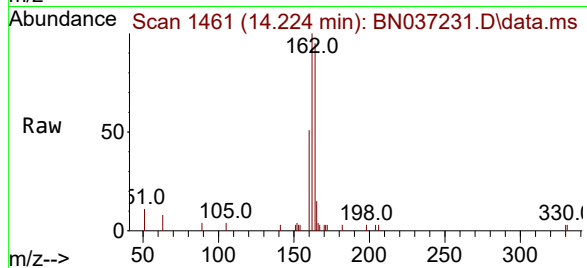




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

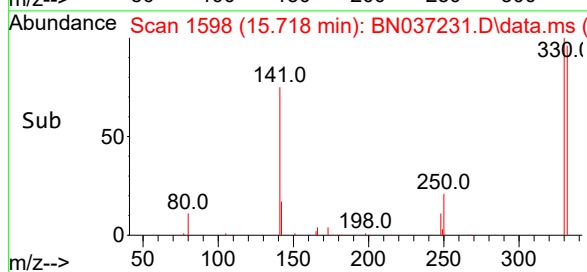
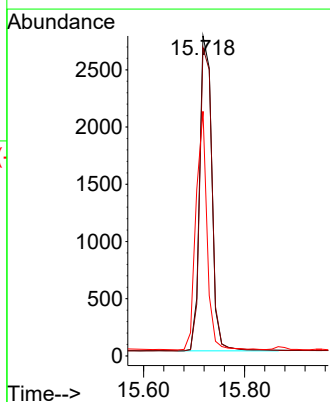
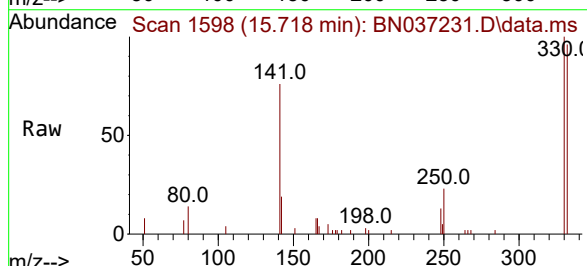
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

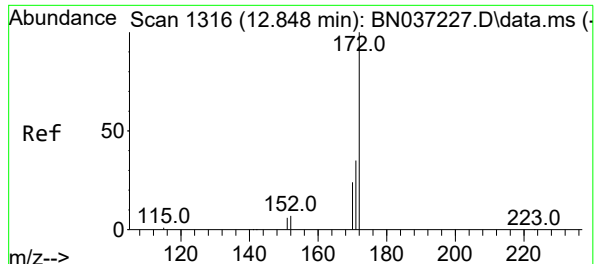
Tgt Ion:164 Resp: 2088
Ion Ratio Lower Upper
164 100
162 105.6 86.7 130.1
160 54.0 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 5.344 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:330 Resp: 4635
Ion Ratio Lower Upper
330 100
332 97.5 74.9 112.3
141 68.7 45.1 67.7#

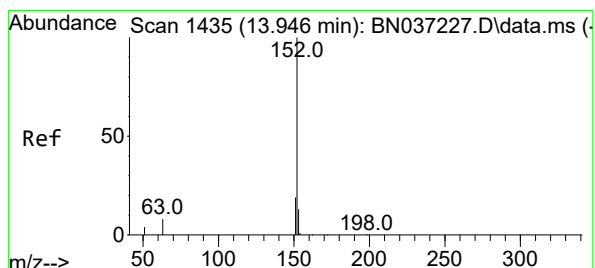
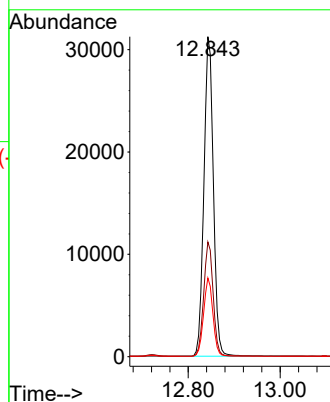
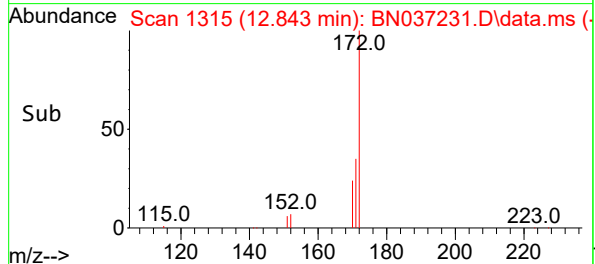
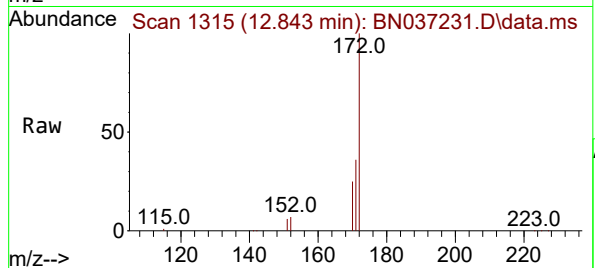




#15
2-Fluorobiphenyl
Concen: 5.103 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

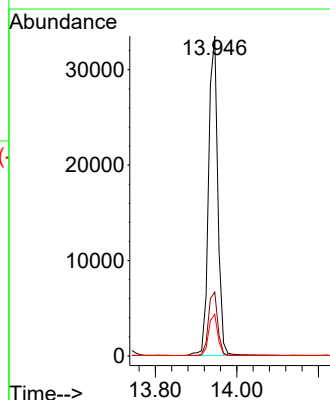
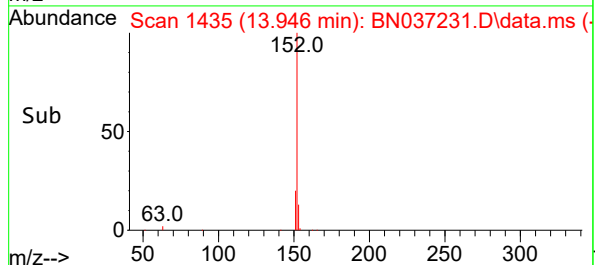
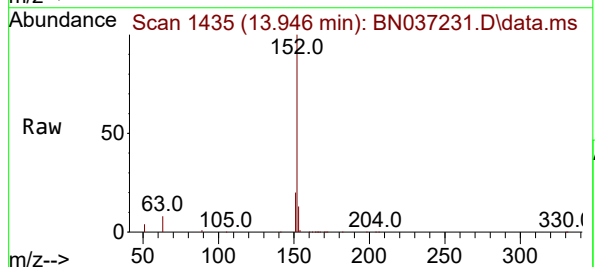
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

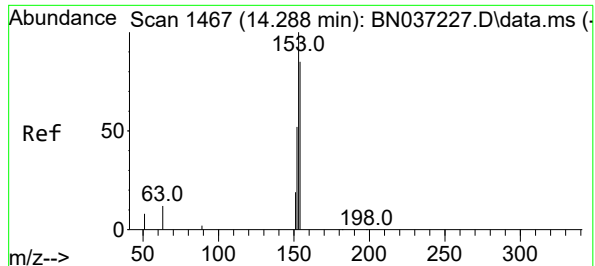
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.8	44.8
170	24.6	21.1	31.7



#16
Acenaphthylene
Concen: 5.154 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	12.9	10.7	16.1

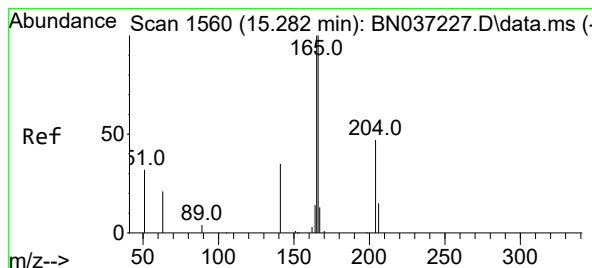
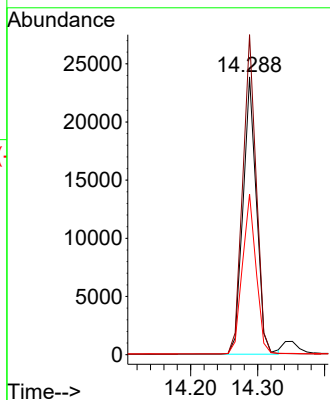
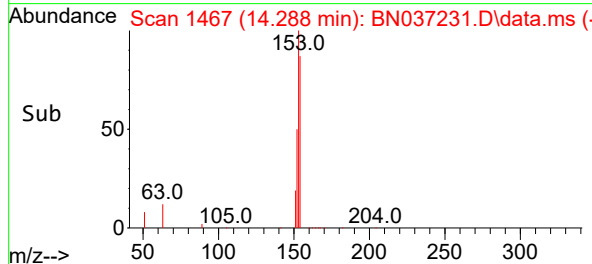
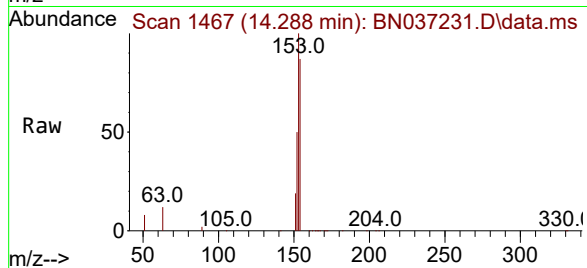




#17
Acenaphthene
Concen: 5.045 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

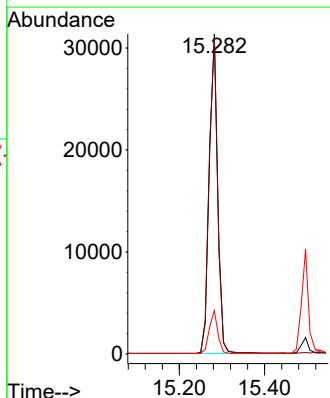
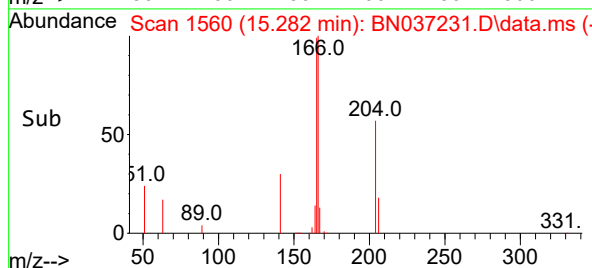
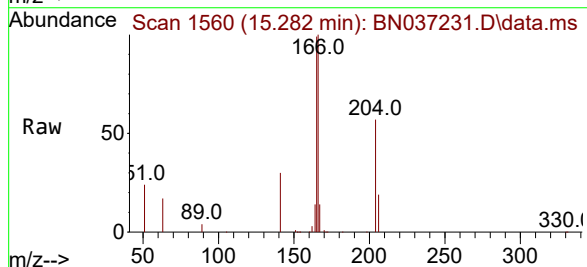
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

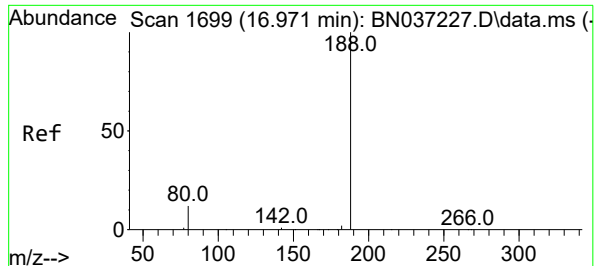
Tgt Ion:154 Resp: 33323
Ion Ratio Lower Upper
154 100
153 115.1 94.6 141.8
152 58.6 49.6 74.4



#18
Fluorene
Concen: 5.075 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:166 Resp: 43051
Ion Ratio Lower Upper
166 100
165 99.9 79.8 119.6
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

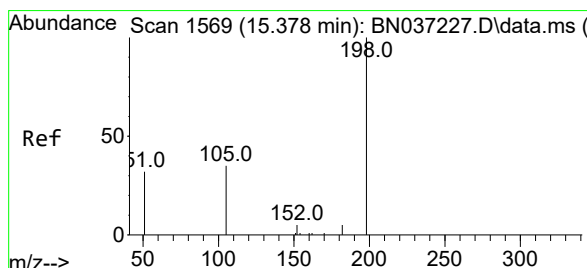
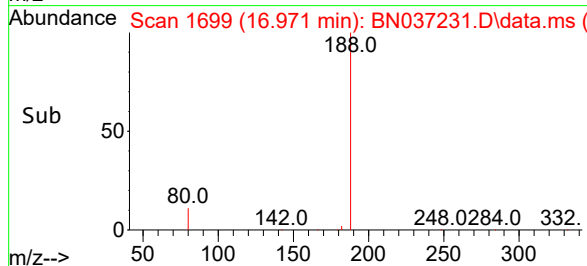
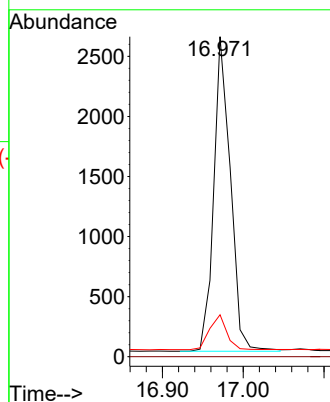
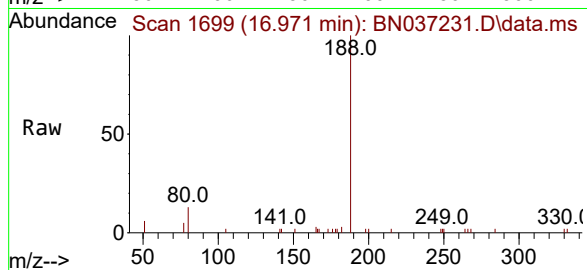
Tgt Ion:188 Resp: 3744

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 4.992 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

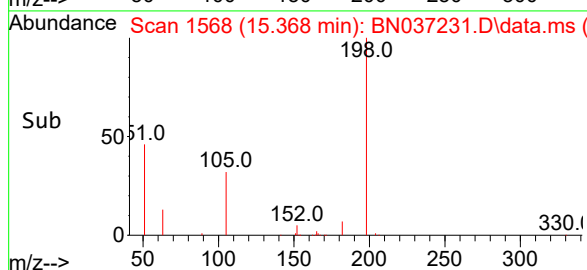
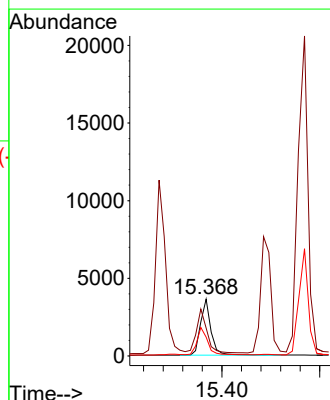
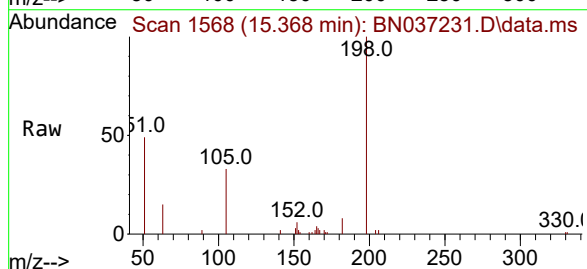
Tgt Ion:198 Resp: 5424

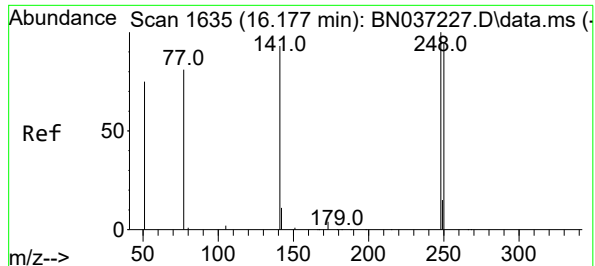
Ion Ratio Lower Upper

198 100

51 49.4 111.2 166.8#

105 33.2 54.0 81.0#

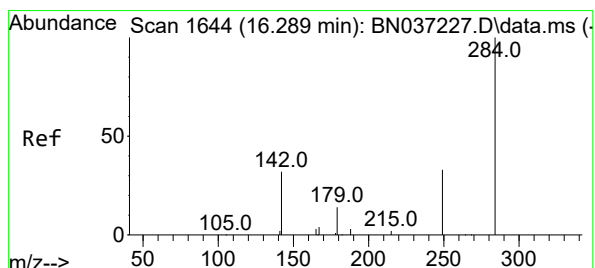
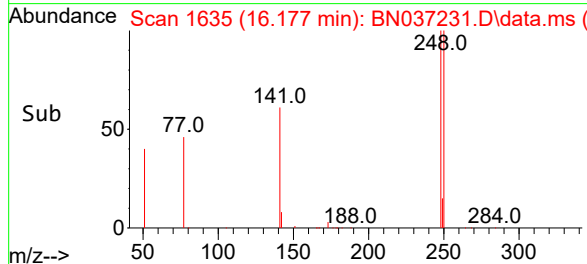
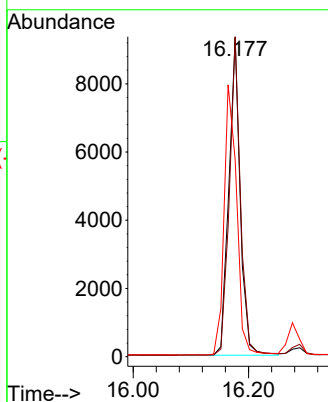
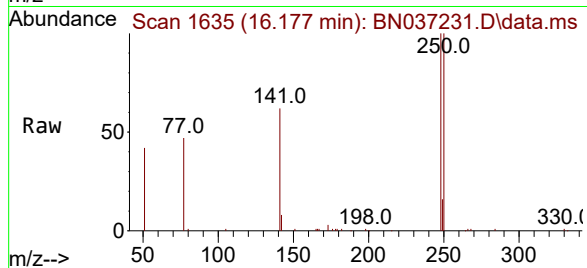




#21
4-Bromophenyl-phenylether
Concen: 5.240 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

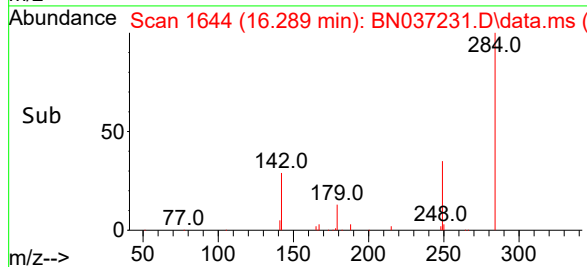
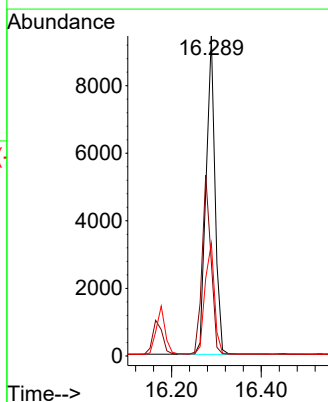
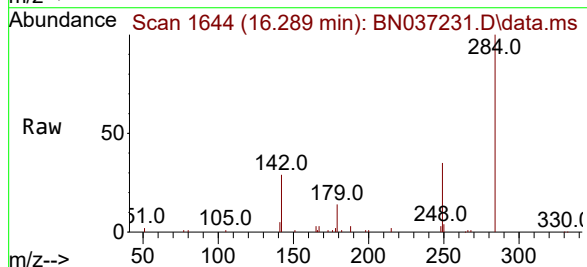
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

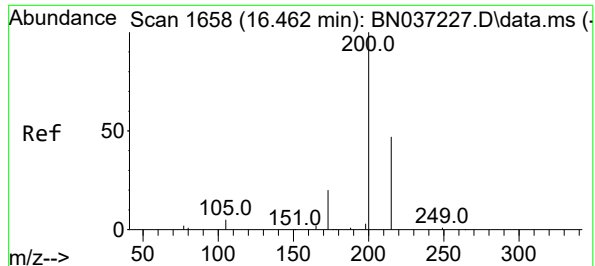
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	76.8	115.2
141	61.8	75.6	113.4#



#22
Hexachlorobenzene
Concen: 4.616 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion	Ratio	Lower	Upper
284	100		
142	56.1	43.8	65.6
249	37.0	28.4	42.6

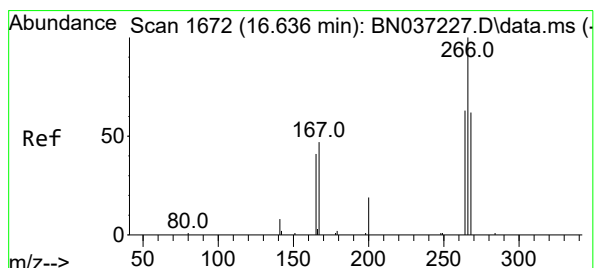
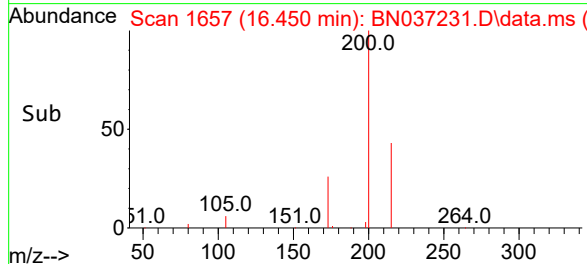
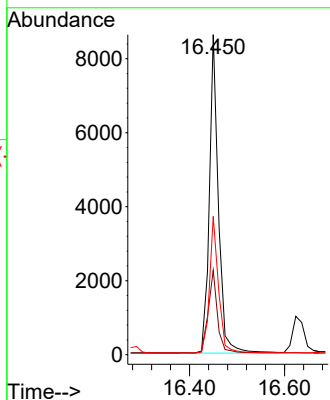
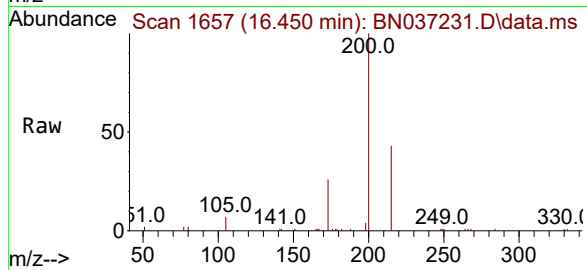




#23
Atrazine
Concen: 5.239 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

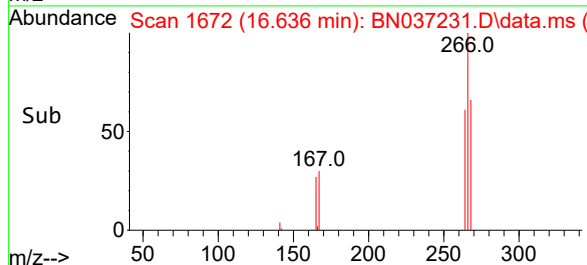
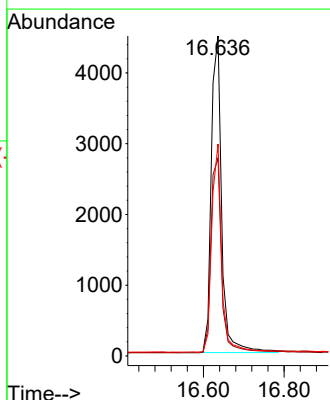
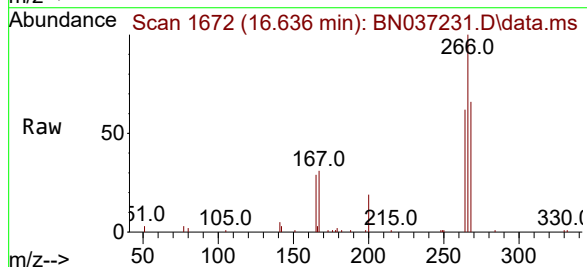
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

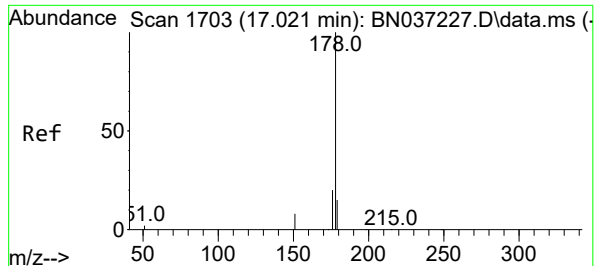
Tgt Ion:200 Resp: 11399
Ion Ratio Lower Upper
200 100
173 26.4 25.1 37.7
215 43.2 43.7 65.5#



#24
Pentachlorophenol
Concen: 5.782 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:266 Resp: 8014
Ion Ratio Lower Upper
266 100
264 63.1 49.2 73.8
268 63.1 53.4 80.2

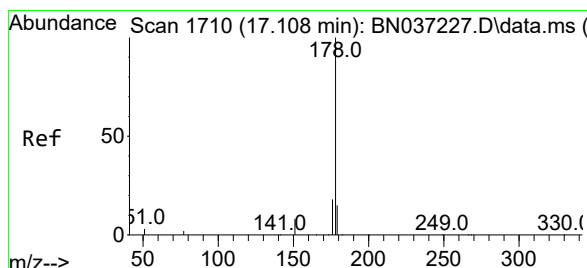
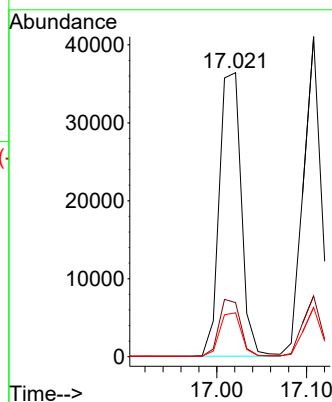
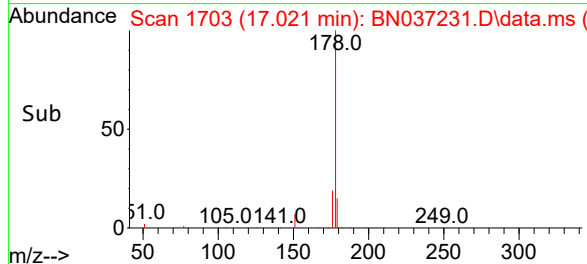
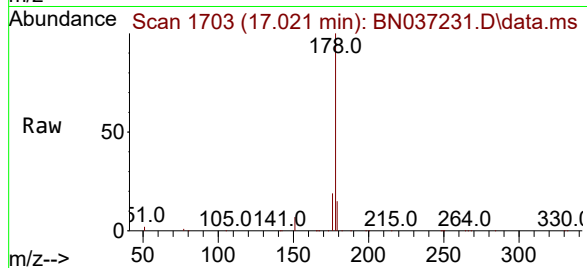




#25
Phenanthrene
Concen: 5.232 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

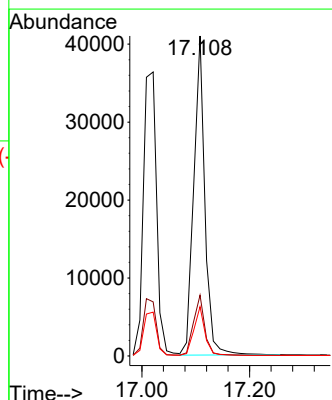
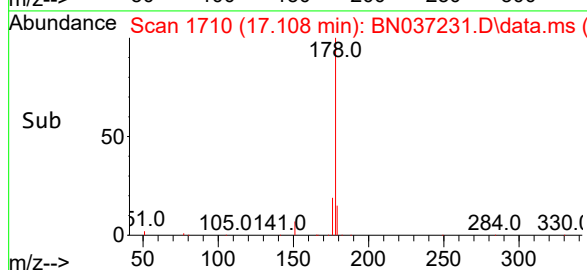
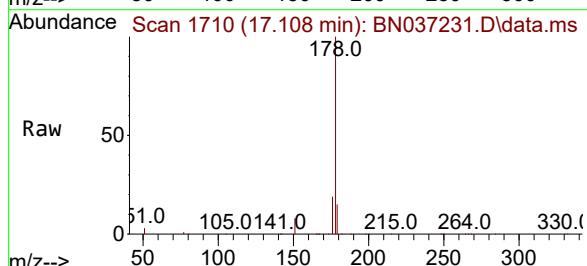
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

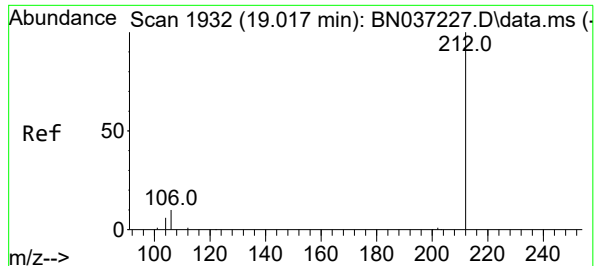
Tgt Ion:178 Resp: 62123
Ion Ratio Lower Upper
178 100
176 19.7 16.3 24.5
179 15.2 12.6 18.8



#26
Anthracene
Concen: 5.429 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:178 Resp: 59009
Ion Ratio Lower Upper
178 100
176 19.2 15.1 22.7
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 5.125 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

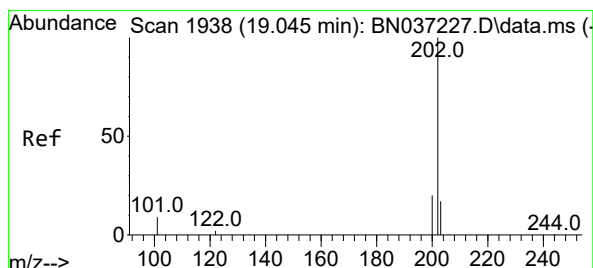
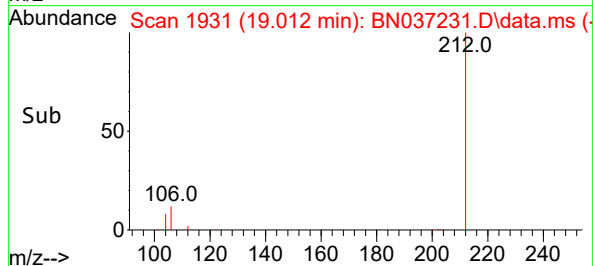
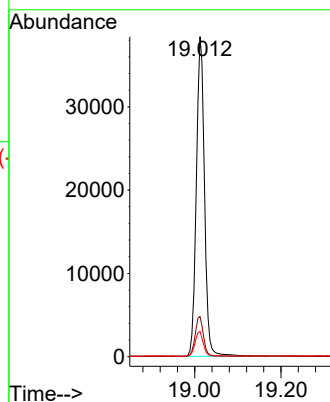
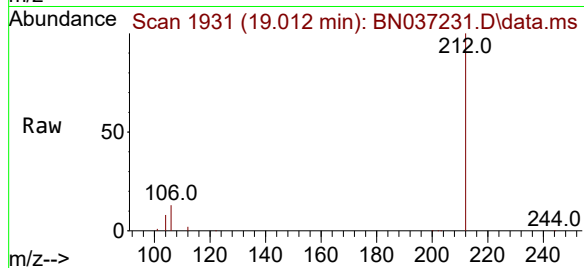
Tgt Ion:212 Resp: 50205

Ion Ratio Lower Upper

212 100

106 12.6 9.3 13.9

104 7.7 5.7 8.5



#28

Fluoranthene

Concen: 5.177 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

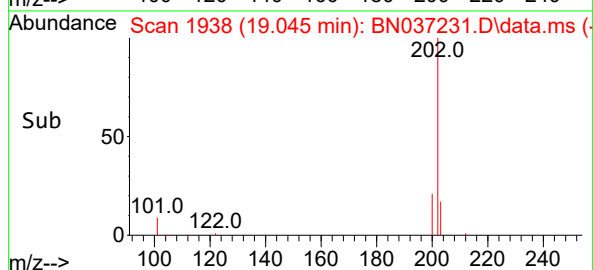
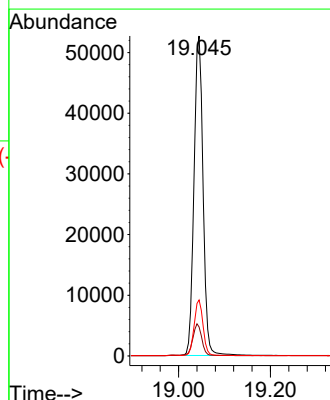
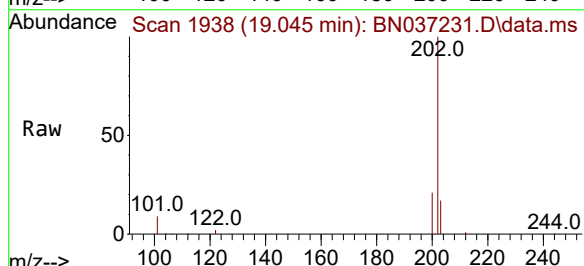
Tgt Ion:202 Resp: 71952

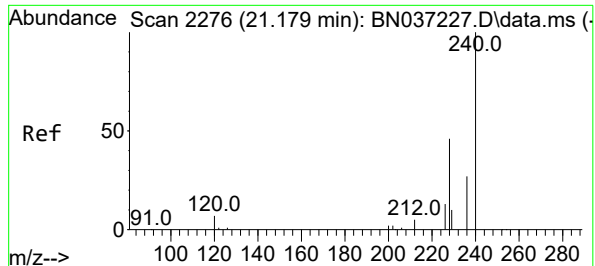
Ion Ratio Lower Upper

202 100

101 10.0 7.1 10.7

203 17.2 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

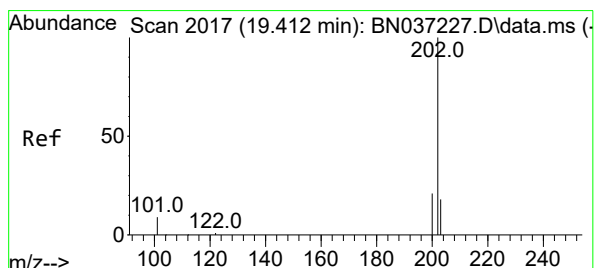
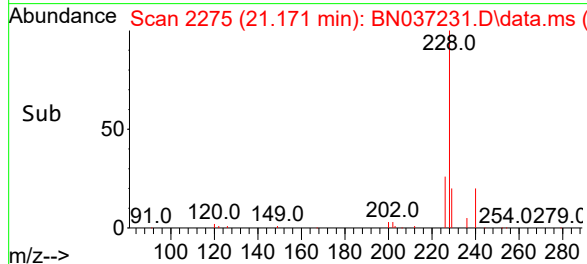
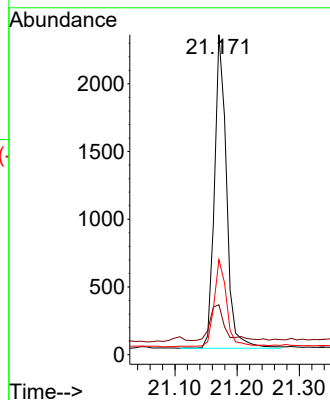
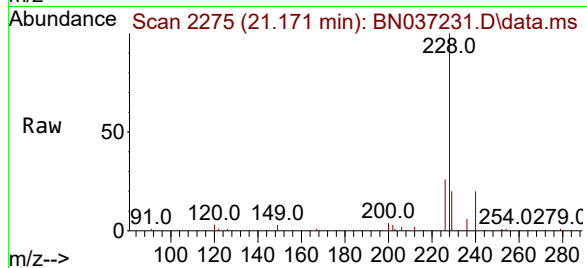
Tgt Ion:240 Resp: 3121

Ion Ratio Lower Upper

240 100

120 15.6 11.3 16.9

236 29.7 24.4 36.6



#30

Pyrene

Concen: 4.930 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

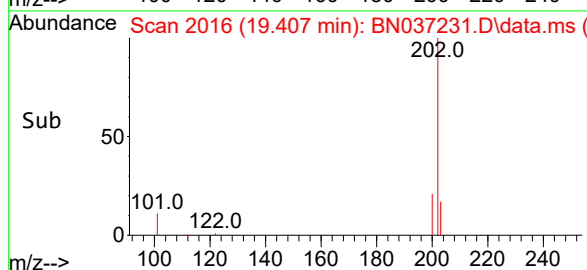
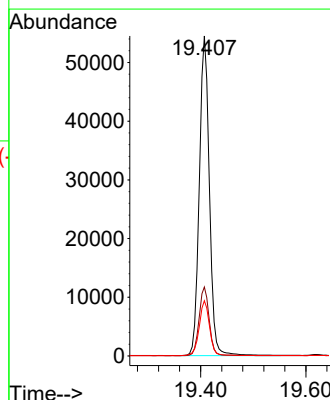
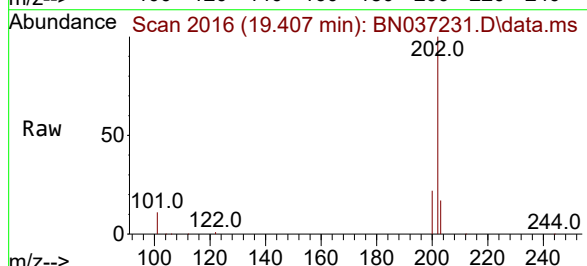
Tgt Ion:202 Resp: 72342

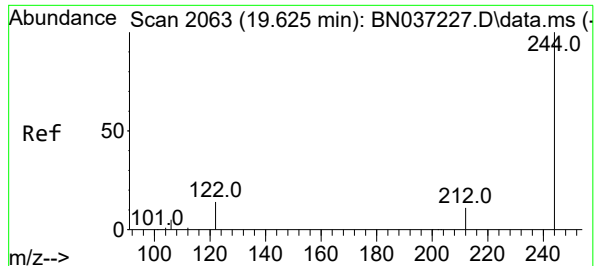
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 17.6 14.3 21.5





#31

Terphenyl-d14

Concen: 5.111 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

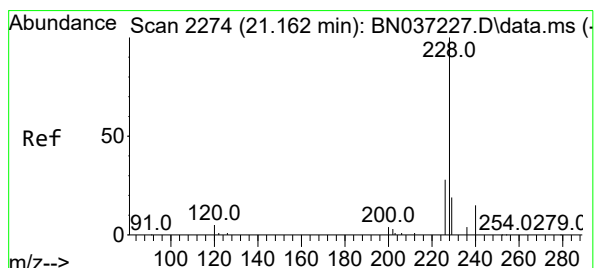
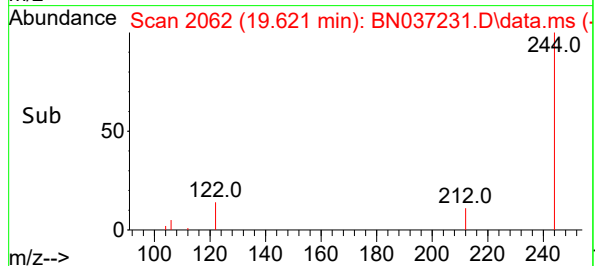
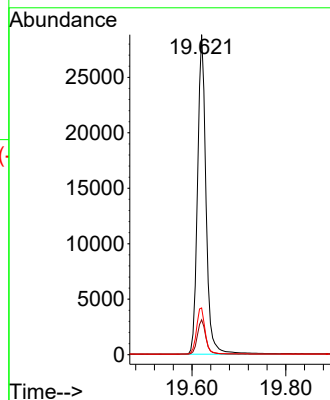
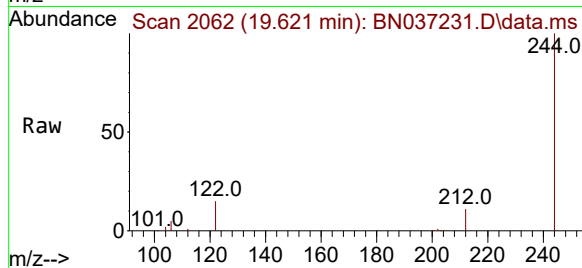
Tgt Ion:244 Resp: 36062

Ion Ratio Lower Upper

244 100

212 10.9 12.2 18.2#

122 14.6 14.3 21.5



#32

Benzo(a)anthracene

Concen: 5.551 ng

RT: 21.153 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

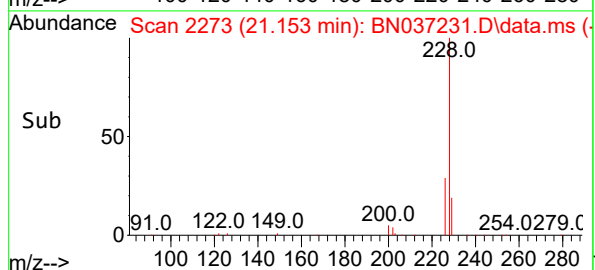
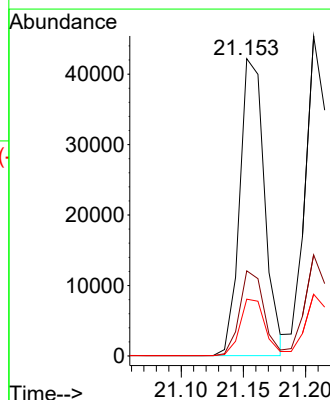
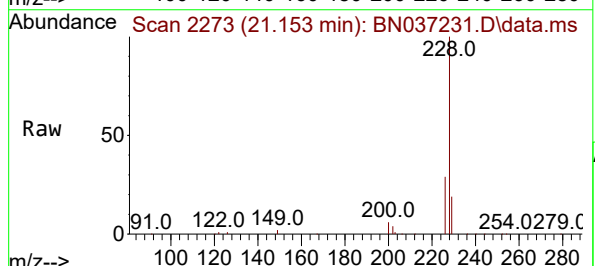
Tgt Ion:228 Resp: 58498

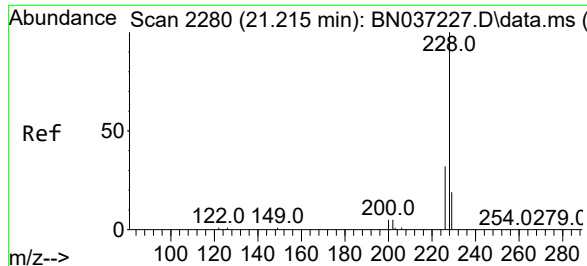
Ion Ratio Lower Upper

228 100

226 28.6 23.8 35.8

229 19.1 17.0 25.4





#33

Chrysene

Concen: 4.803 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

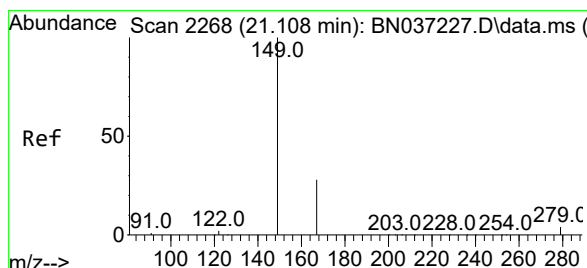
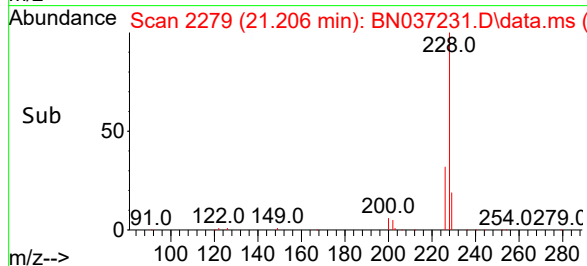
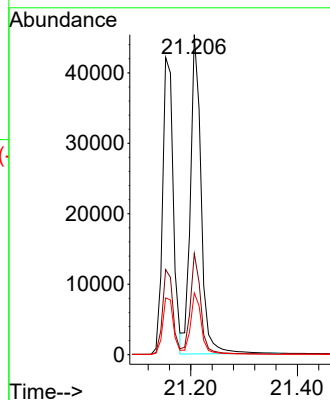
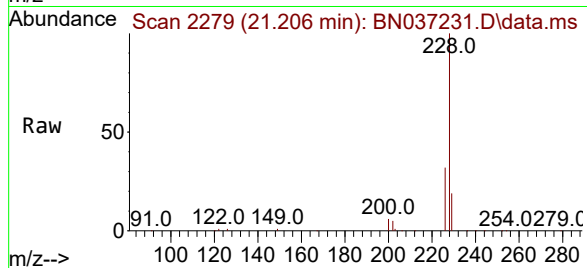
Tgt Ion:228 Resp: 63057

Ion Ratio Lower Upper

228 100

226 31.6 25.8 38.6

229 19.3 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.774 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

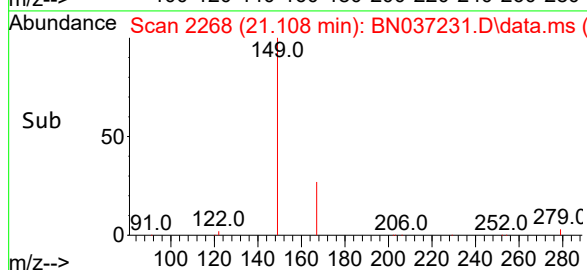
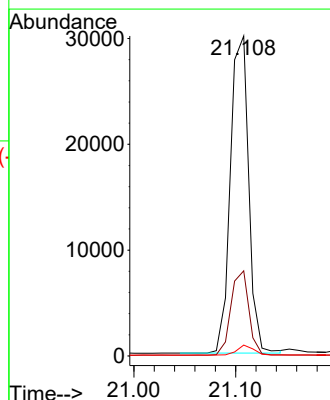
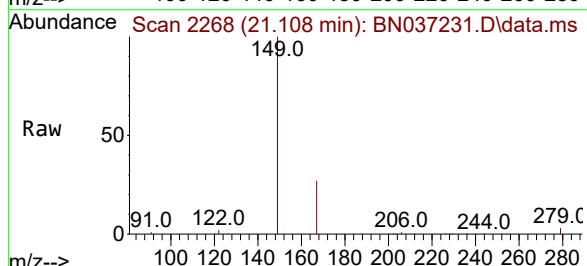
Tgt Ion:149 Resp: 37466

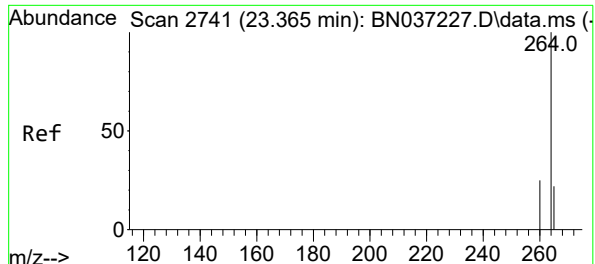
Ion Ratio Lower Upper

149 100

167 26.0 21.3 31.9

279 2.9 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

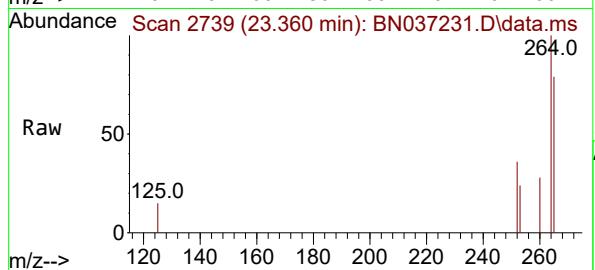
Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



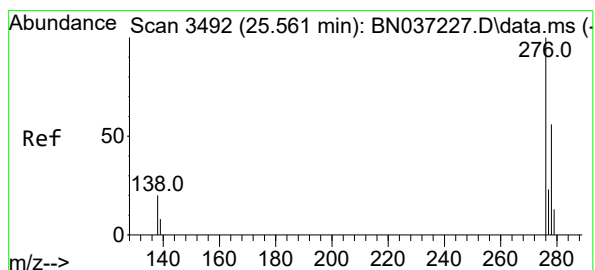
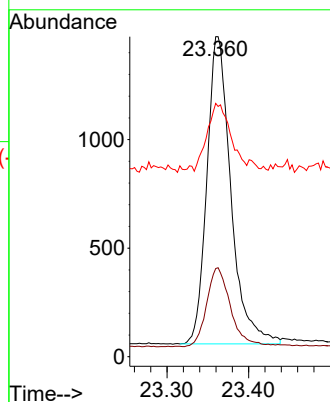
Tgt Ion:264 Resp: 2895

Ion Ratio Lower Upper

264 100

260 27.5 22.8 34.2

265 79.2 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.620 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

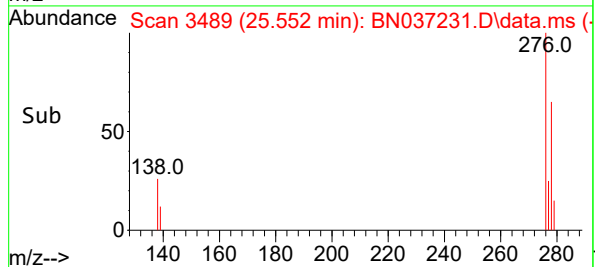
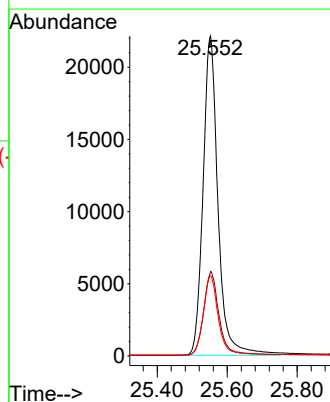
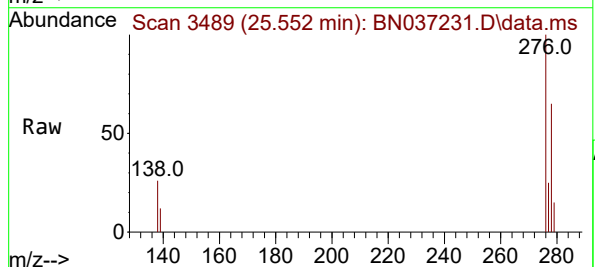
Tgt Ion:276 Resp: 65610

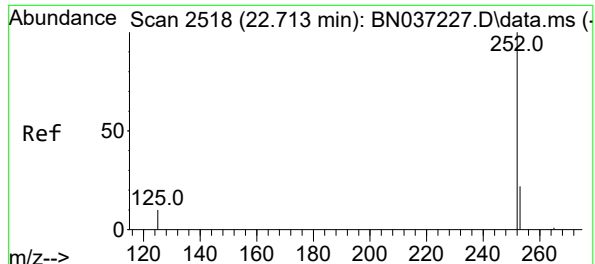
Ion Ratio Lower Upper

276 100

138 26.6 16.8 25.2#

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 5.536 ng

RT: 22.708 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

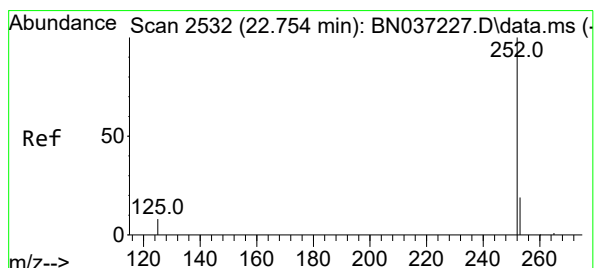
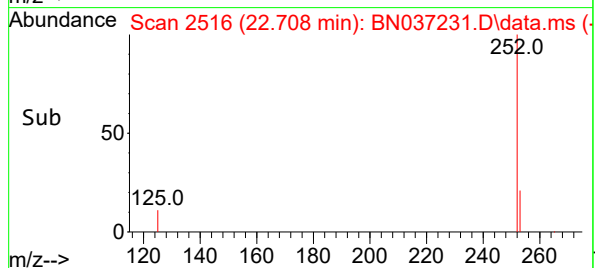
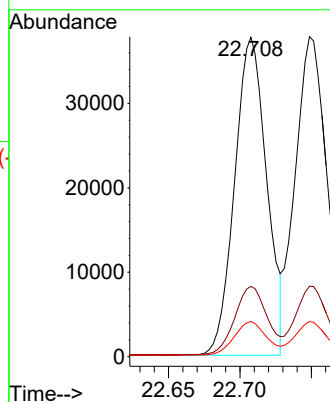
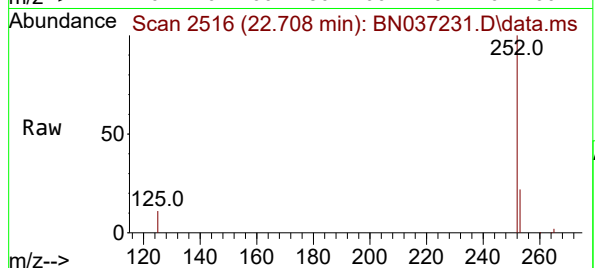
Tgt Ion:252 Resp: 58631

Ion Ratio Lower Upper

252 100

253 22.0 24.9 37.3#

125 11.0 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 5.148 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

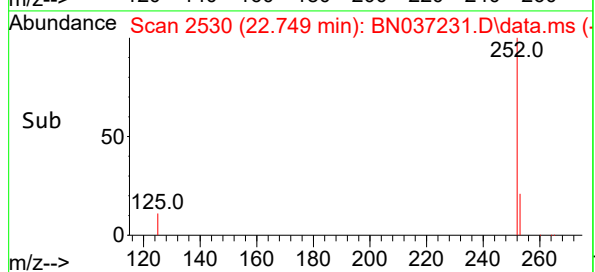
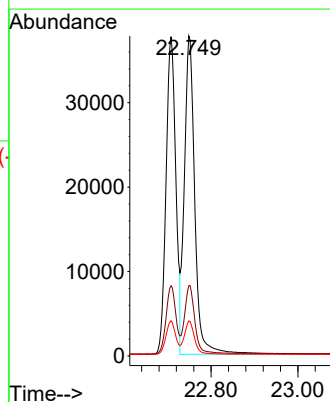
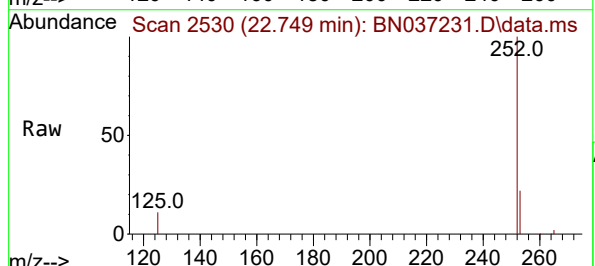
Tgt Ion:252 Resp: 62537

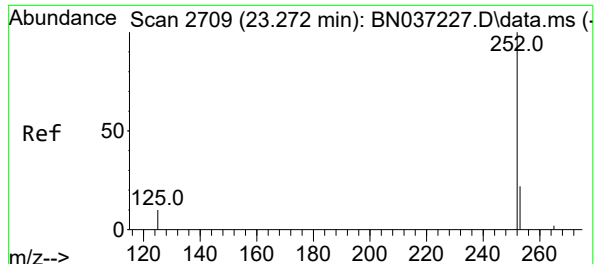
Ion Ratio Lower Upper

252 100

253 22.0 24.6 37.0#

125 11.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 5.368 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

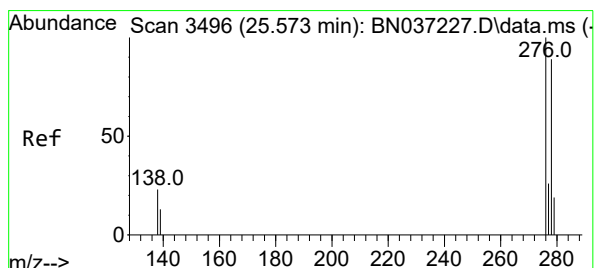
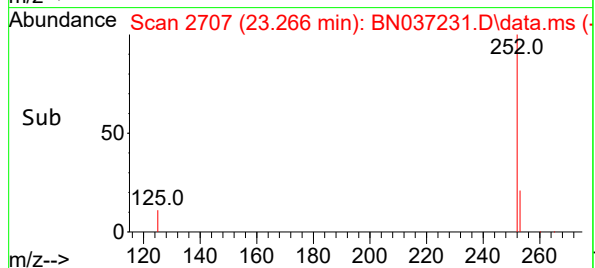
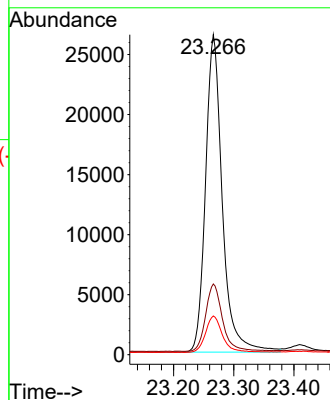
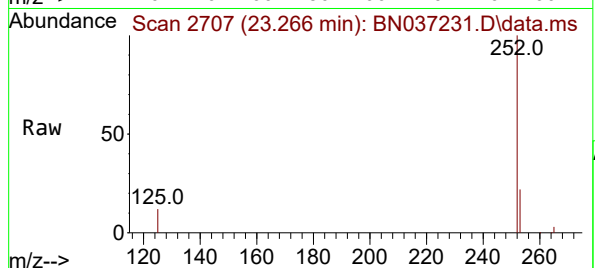
Tgt Ion:252 Resp: 51138

Ion Ratio Lower Upper

252 100

253 22.1 29.4 44.2#

125 12.1 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 5.871 ng

RT: 25.564 min Scan# 3493

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

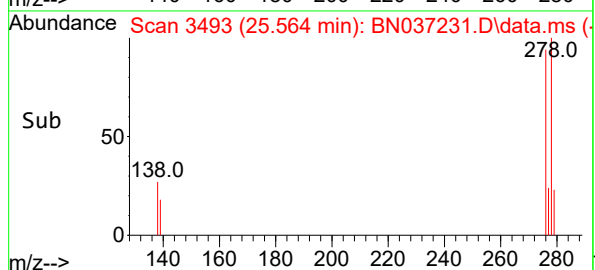
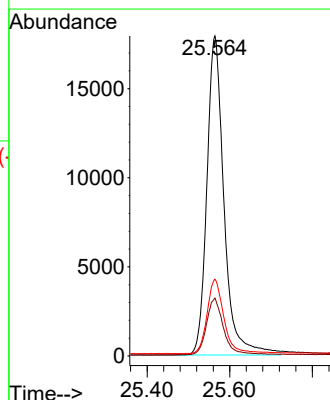
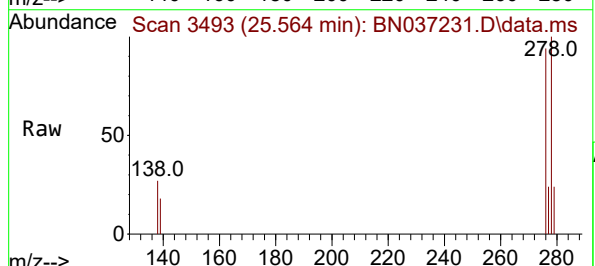
Tgt Ion:278 Resp: 51648

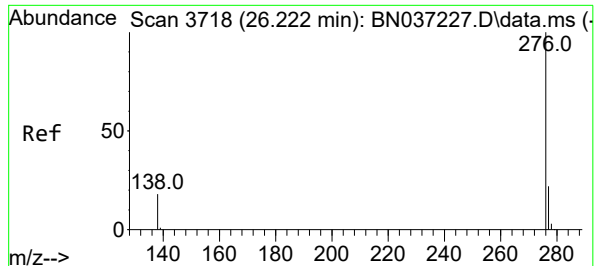
Ion Ratio Lower Upper

278 100

139 18.1 17.8 26.6

279 24.0 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 5.204 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037231.D

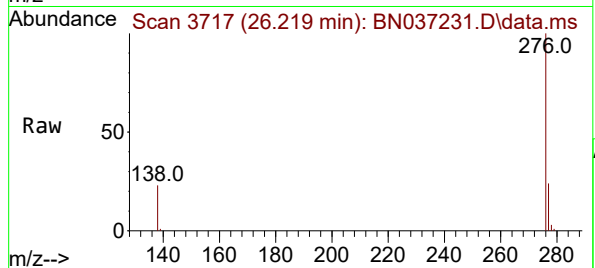
Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



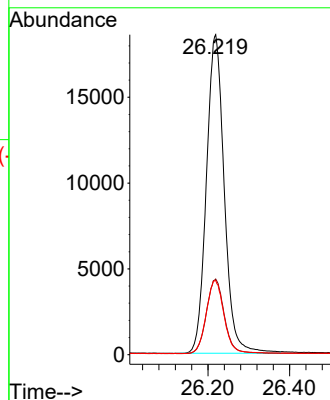
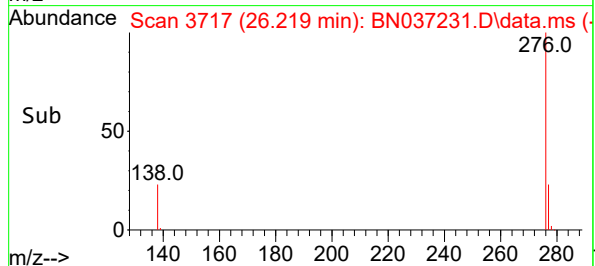
Tgt Ion:276 Resp: 56339

Ion Ratio Lower Upper

276 100

277 23.7 22.0 33.0

138 23.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037232.D
 Acq On : 13 Jun 2025 17:47
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

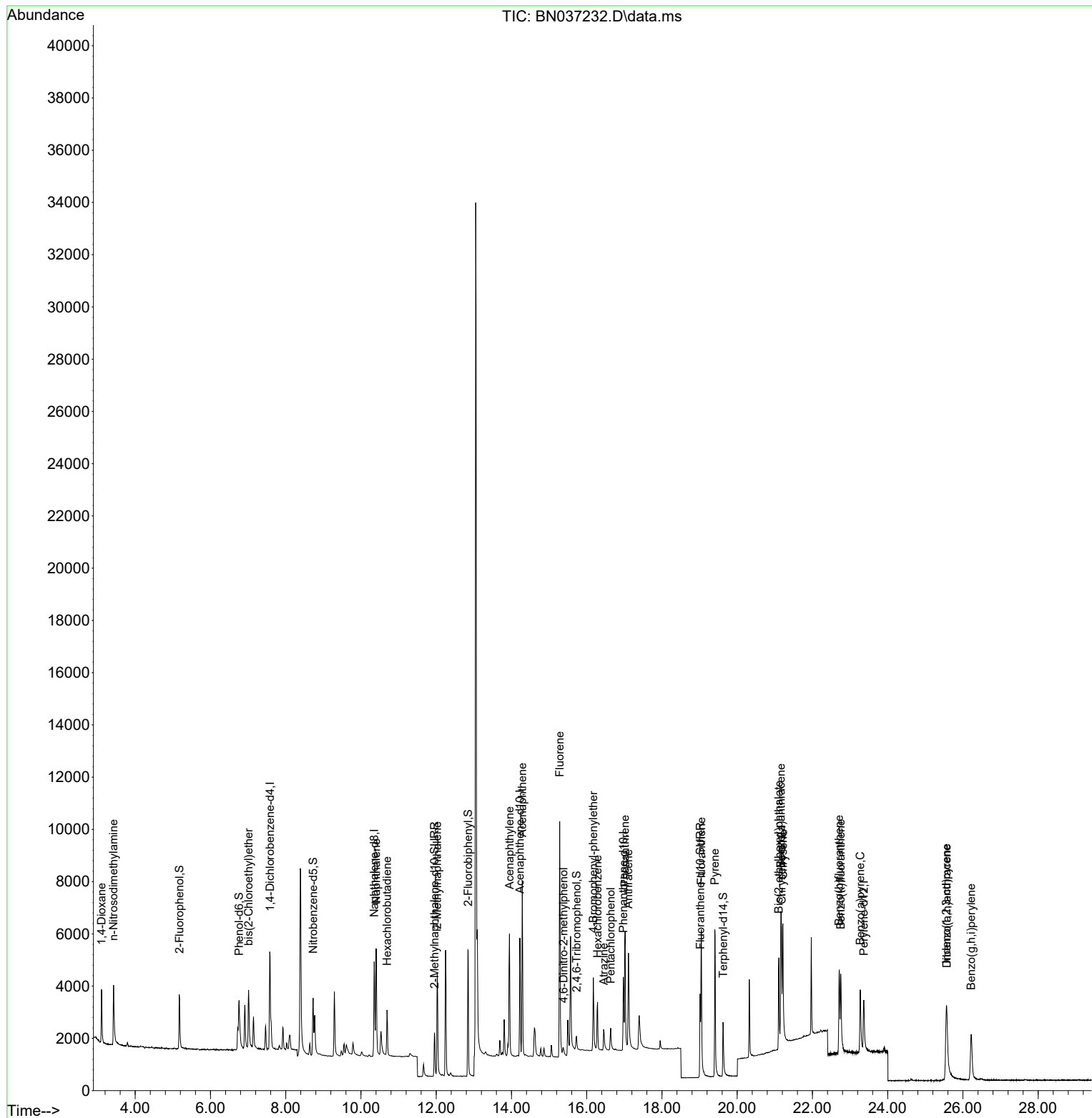
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1986	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	4902	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	2552	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4515	0.400	ng	0.00
29) Chrysene-d12	21.180	240	3230	0.400	ng	0.00
35) Perylene-d12	23.366	264	3076	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1716	0.352	ng	0.00
5) Phenol-d6	6.759	99	1849	0.360	ng	0.00
8) Nitrobenzene-d5	8.728	82	1988	0.410	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	2615	0.398	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	327	0.308	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	4427	0.413	ng	0.00
27) Fluoranthene-d10	19.017	212	4358	0.369	ng	0.00
31) Terphenyl-d14	19.625	244	3044	0.417	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1095	0.402	ng	Qvalue 91
3) n-Nitrosodimethylamine	3.422	42	2259	0.364	ng	# 91
6) bis(2-Chloroethyl)ether	7.012	93	2110	0.458	ng	89
9) Naphthalene	10.404	128	5483	0.386	ng	97
10) Hexachlorobutadiene	10.693	225	1319	0.382	ng	# 97
12) 2-Methylnaphthalene	12.026	142	3073	0.356	ng	99
16) Acenaphthylene	13.946	152	5109	0.409	ng	98
17) Acenaphthene	14.288	154	3050	0.378	ng	99
18) Fluorene	15.282	166	3826	0.369	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	326	0.392	ng	92
21) 4-Bromophenyl-phenylether	16.177	248	1082	0.368	ng	97
22) Hexachlorobenzene	16.289	284	1296	0.380	ng	98
23) Atrazine	16.450	200	1004	0.383	ng	89
24) Pentachlorophenol	16.636	266	540	0.323	ng	95
25) Phenanthrene	17.021	178	5458	0.381	ng	99
26) Anthracene	17.108	178	4934	0.376	ng	100
28) Fluoranthene	19.045	202	5935	0.354	ng	98
30) Pyrene	19.407	202	5948	0.392	ng	100
32) Benzo(a)anthracene	21.162	228	4183	0.384	ng	99
33) Chrysene	21.215	228	5302	0.390	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	3027	0.373	ng	100
36) Indeno(1,2,3-cd)pyrene	25.558	276	4825	0.389	ng	99
37) Benzo(b)fluoranthene	22.711	252	4122	0.366	ng	96
38) Benzo(k)fluoranthene	22.752	252	4721	0.363	ng	98
39) Benzo(a)pyrene	23.272	252	4086	0.404	ng	# 93
40) Dibenzo(a,h)anthracene	25.573	278	3443	0.365	ng	94
41) Benzo(g,h,i)perylene	26.219	276	4068	0.354	ng	97

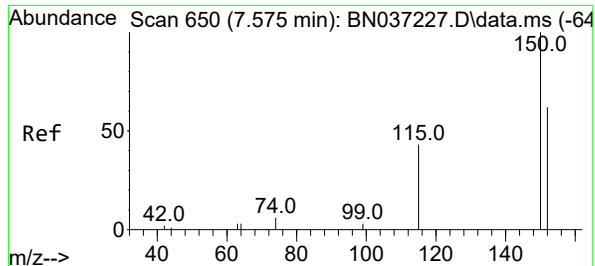
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

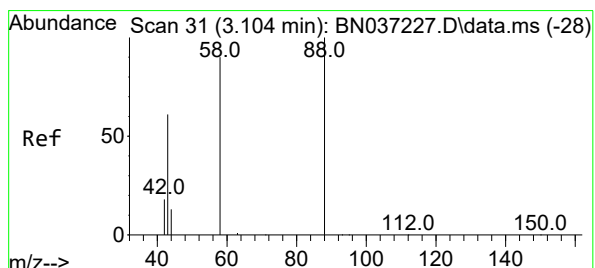
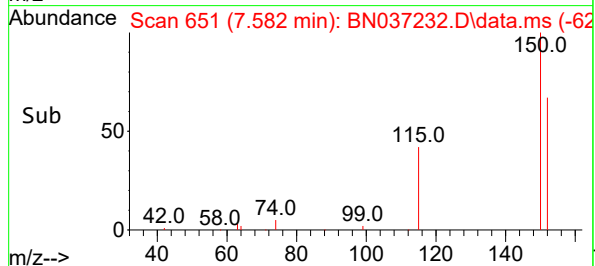
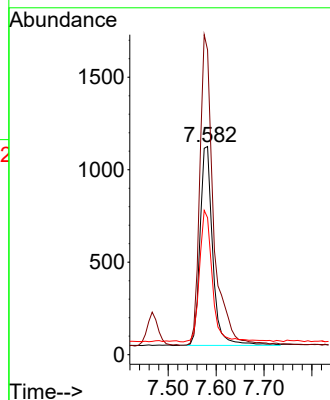
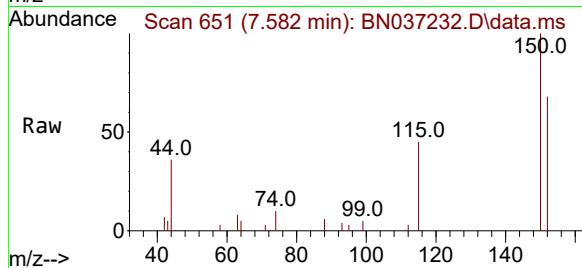




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

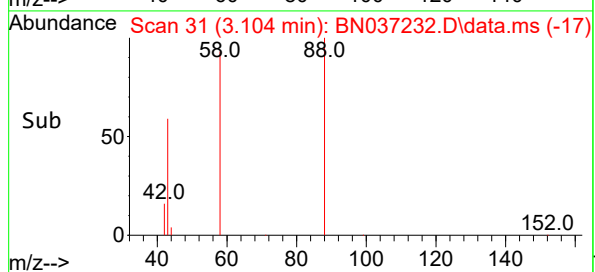
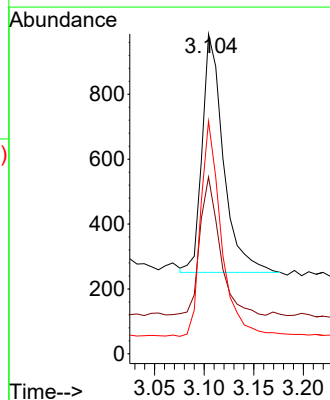
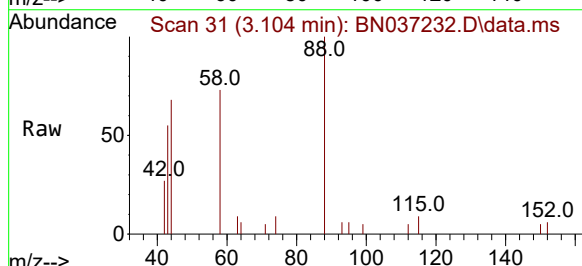
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

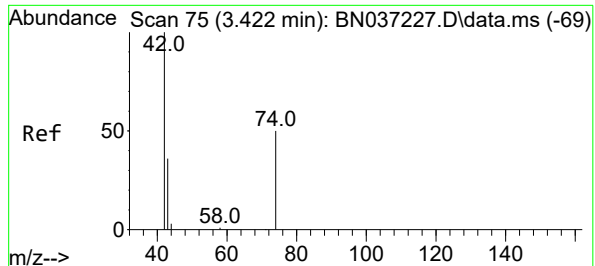
Tgt Ion:152 Resp: 1986
Ion Ratio Lower Upper
152 100
150 146.5 125.2 187.8
115 65.8 58.4 87.6



#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 88 Resp: 1095
Ion Ratio Lower Upper
88 100
43 54.6 52.6 79.0
58 86.8 73.5 110.3

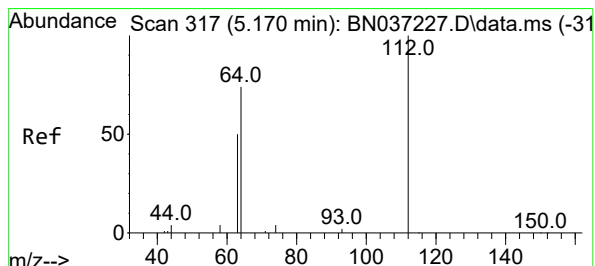
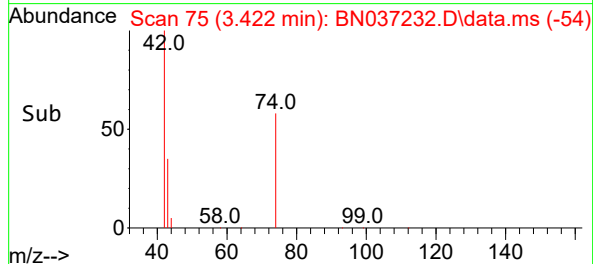
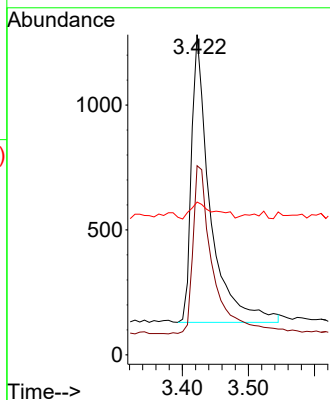
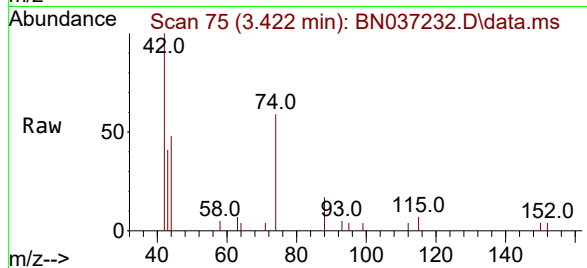




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

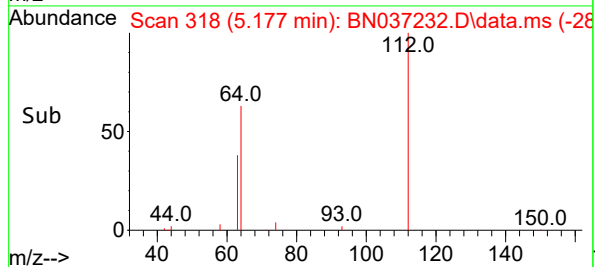
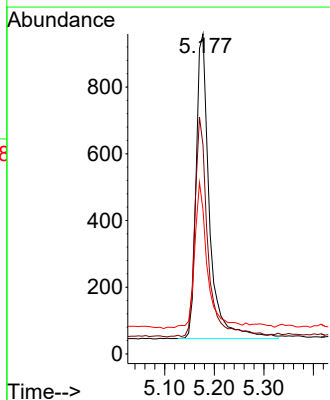
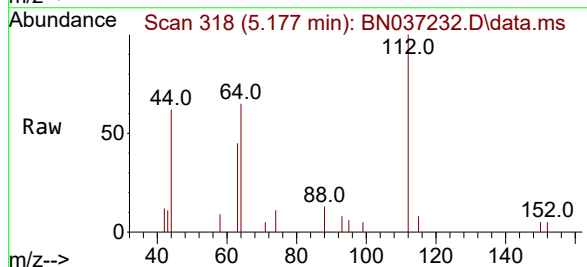
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BNA_N
ClientSampleId :
ICVBN061325

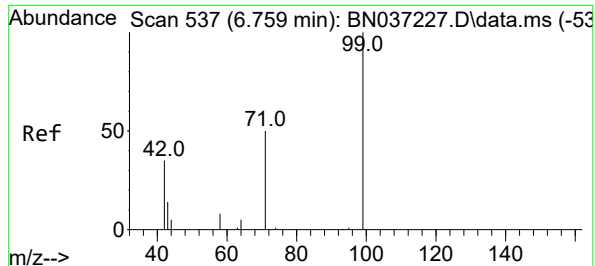
Tgt Ion: 42 Resp: 2259
Ion Ratio Lower Upper
42 100
74 62.0 44.6 66.8
44 7.5 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 112 Resp: 1716
Ion Ratio Lower Upper
112 100
64 70.6 57.2 85.8
63 45.6 39.8 59.6

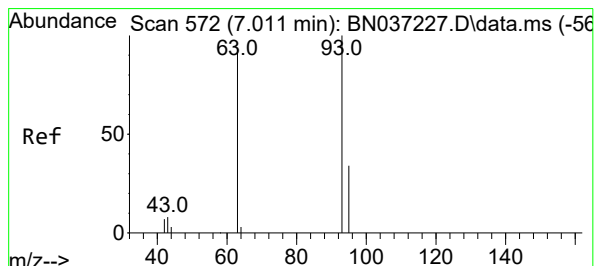
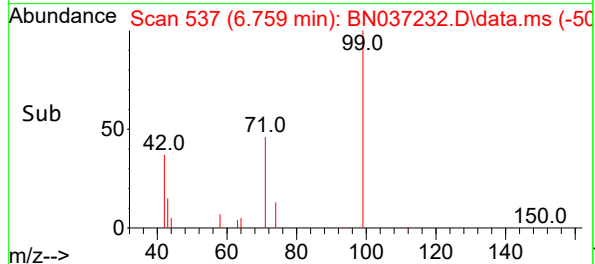
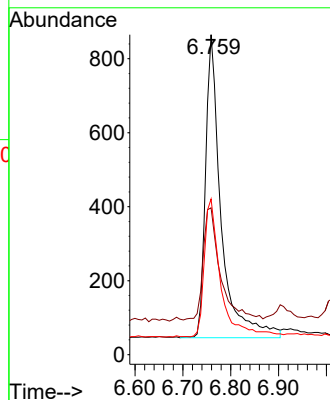
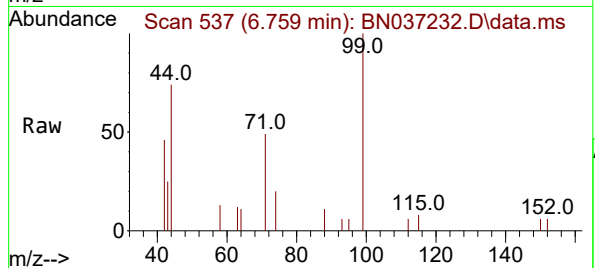




#5
Phenol-d6
Concen: 0.360 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

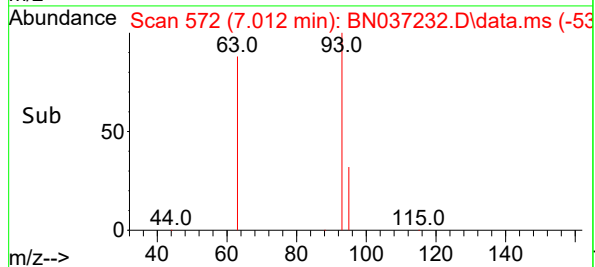
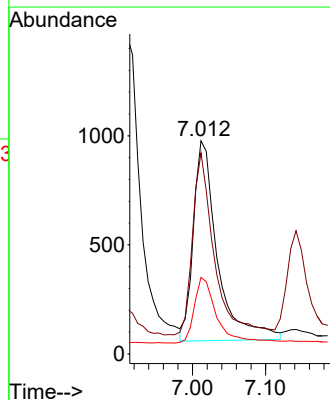
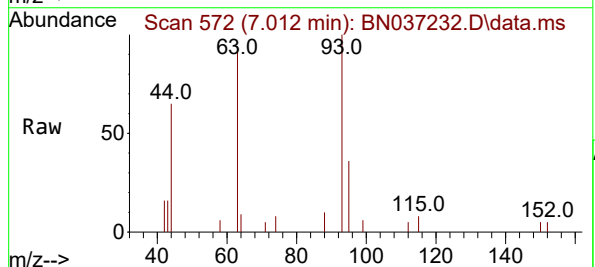
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

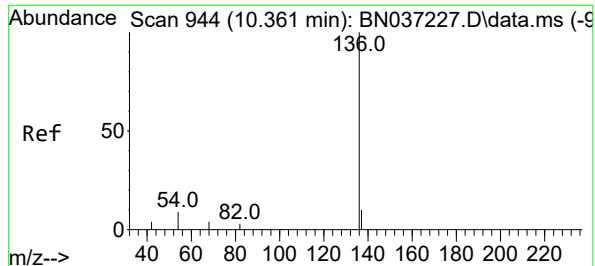
Tgt Ion:	99	Resp:	1849
Ion	Ratio	Lower	Upper
99	100		
42	40.9	36.2	54.4
71	48.2	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.458 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:	93	Resp:	2110
Ion	Ratio	Lower	Upper
93	100		
63	81.0	75.2	112.8
95	31.9	28.3	42.5

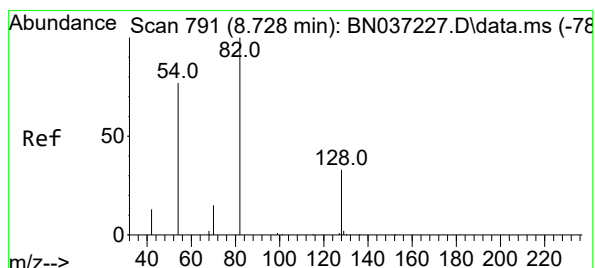
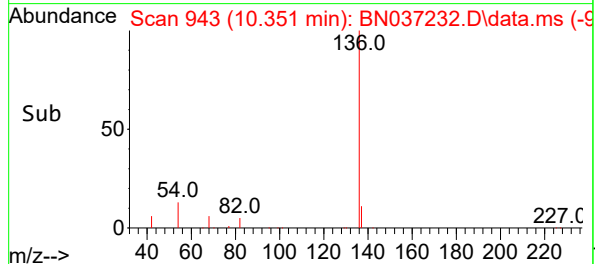
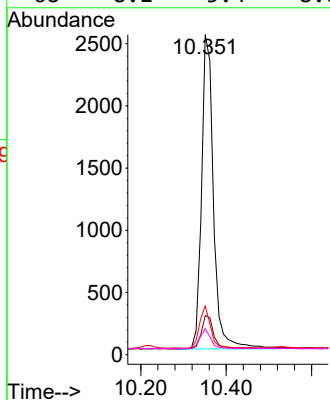
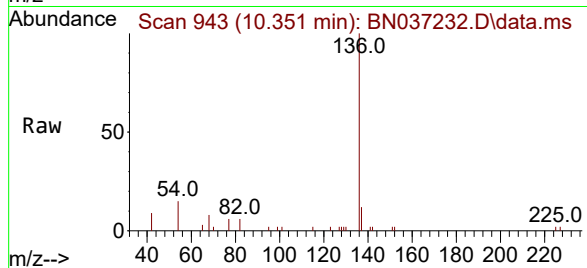




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

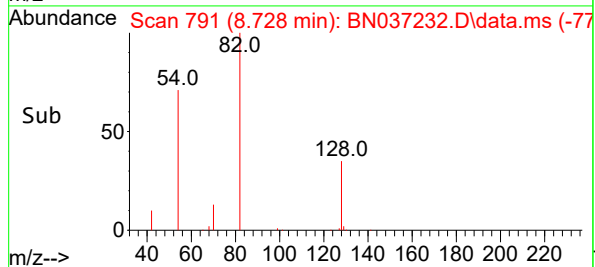
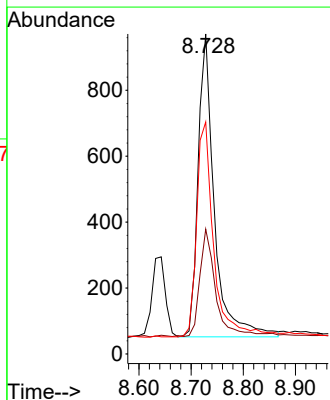
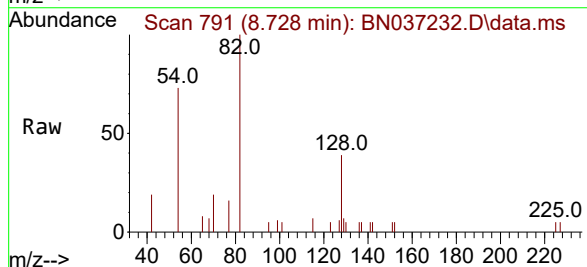
Instrument :
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ClientSampleId :
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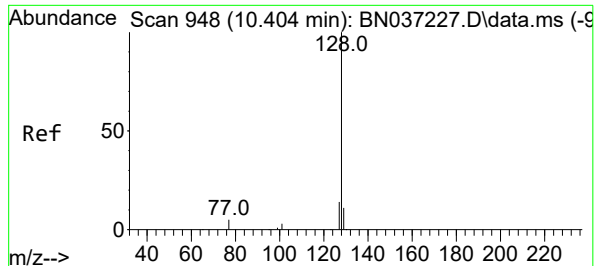
Tgt Ion:	136	Resp:	4902
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.6	15.8
54	15.2	9.2	13.8#
68	8.1	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.410 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:	82	Resp:	1988
Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	72.5	63.3	94.9

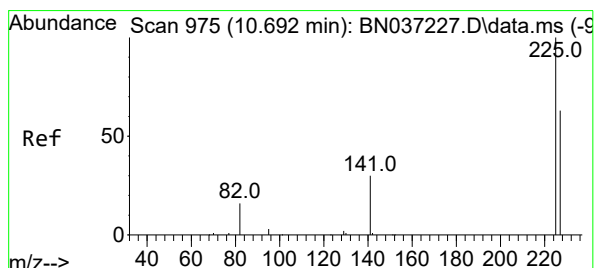
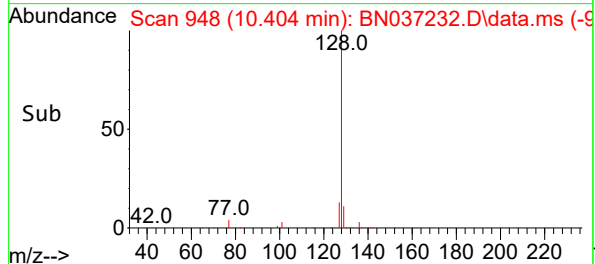
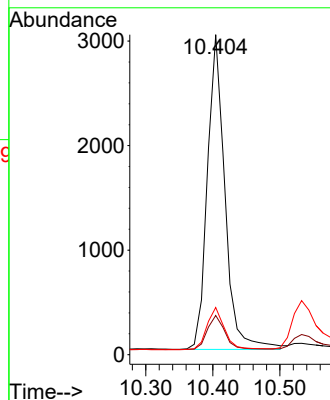
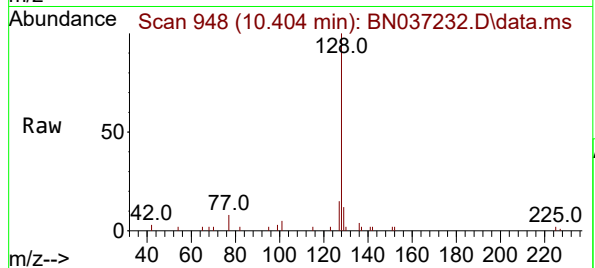




#9
Naphthalene
Concen: 0.386 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

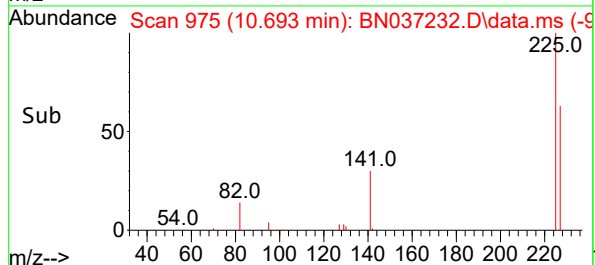
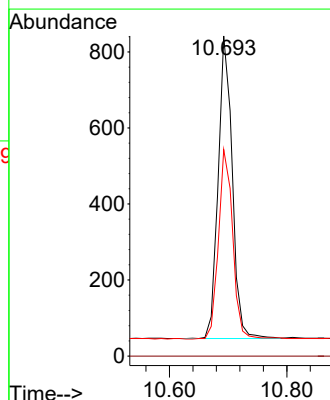
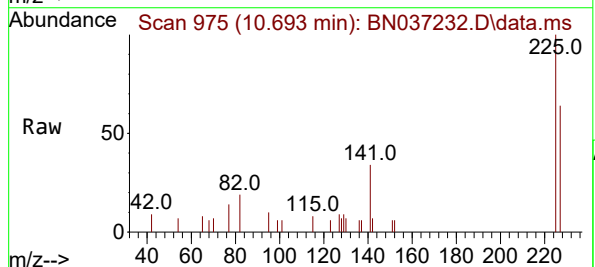
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

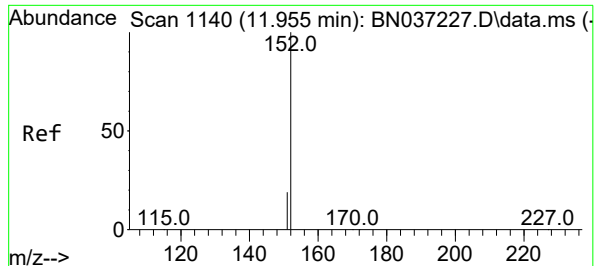
Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.3	10.7	16.1
127	14.7	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.382 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	49.2	73.8

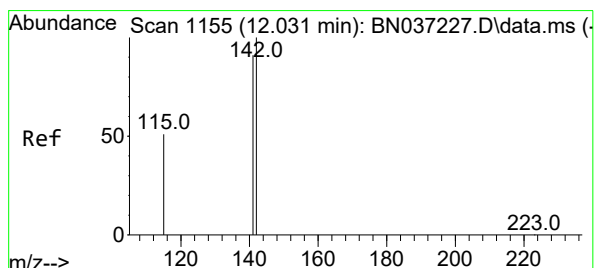
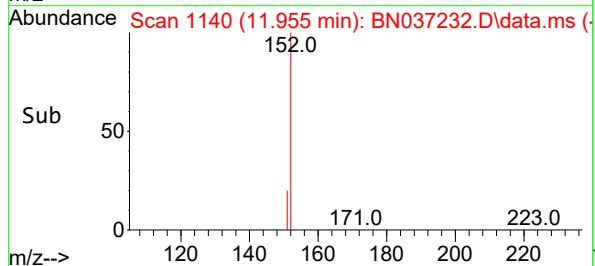
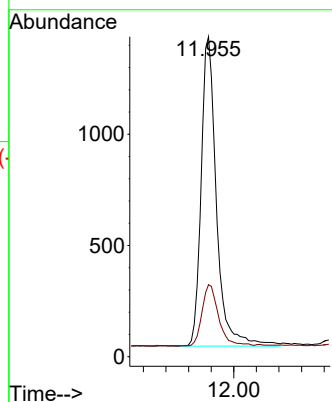
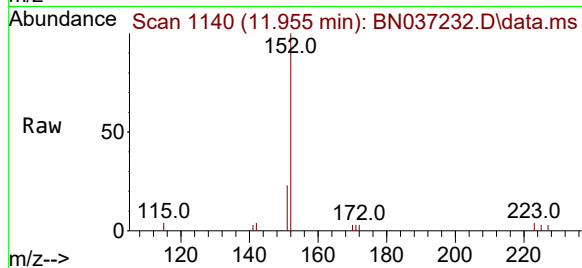




#11
2-Methylnaphthalene-d10
Concen: 0.398 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

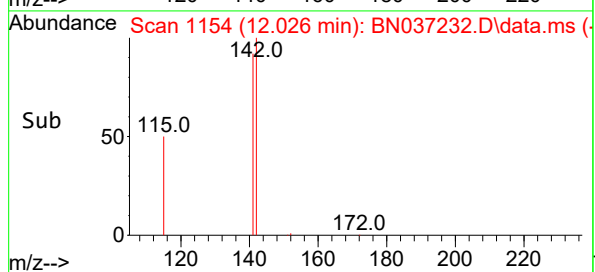
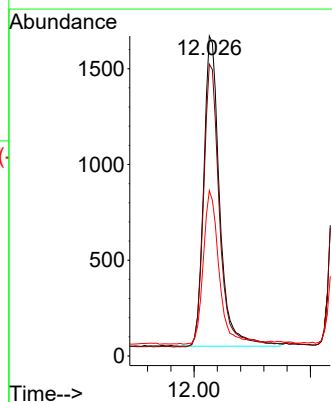
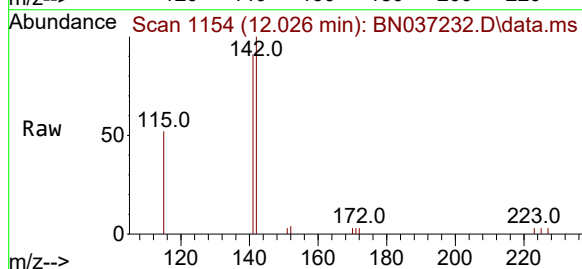
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

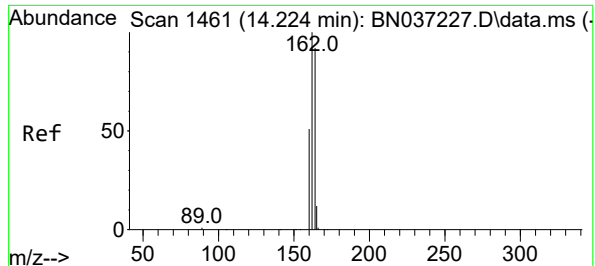
Tgt Ion:152 Resp: 2615
Ion Ratio Lower Upper
152 100
151 21.3 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:142 Resp: 3073
Ion Ratio Lower Upper
142 100
141 91.2 73.0 109.6
115 51.6 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

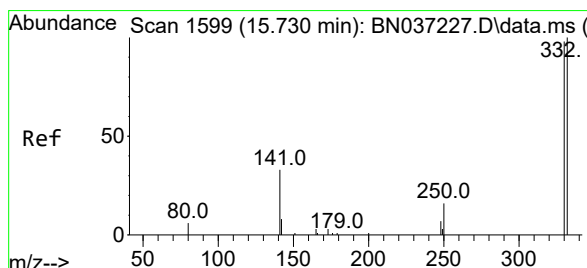
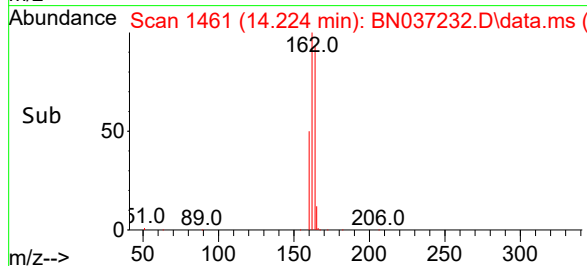
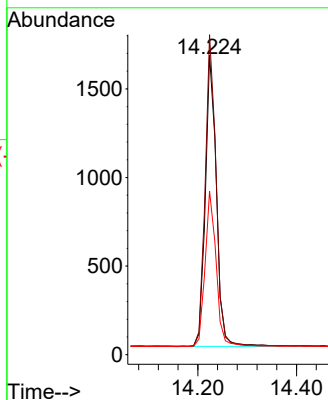
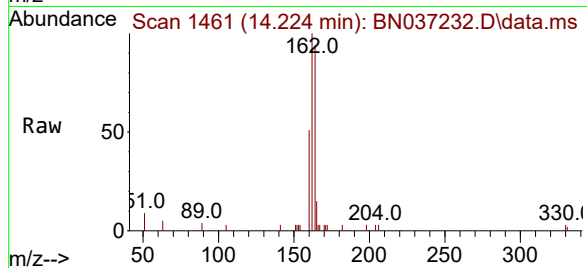
Tgt Ion:164 Resp: 2552

Ion Ratio Lower Upper

164 100

162 106.8 86.7 130.1

160 54.6 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.308 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

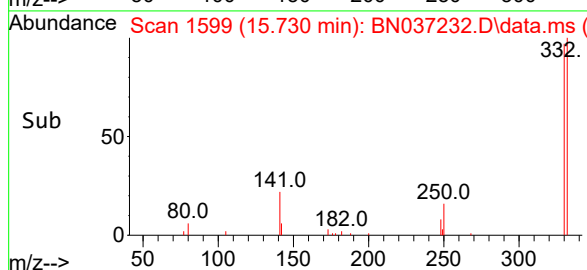
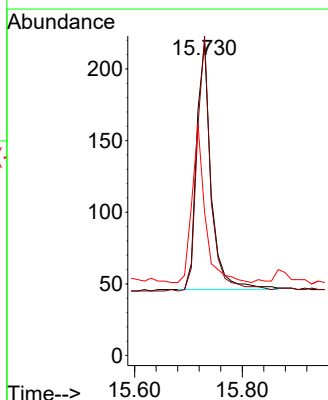
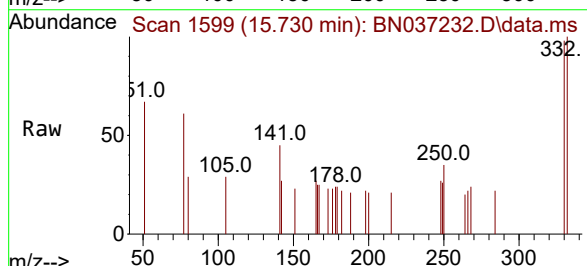
Tgt Ion:330 Resp: 327

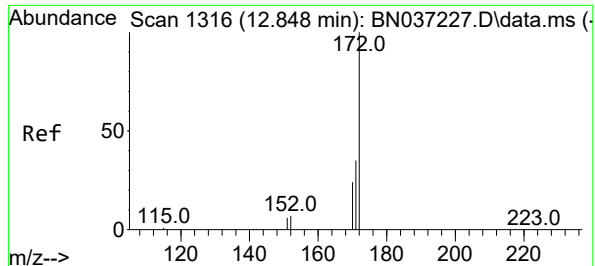
Ion Ratio Lower Upper

330 100

332 97.6 74.9 112.3

141 57.2 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.413 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

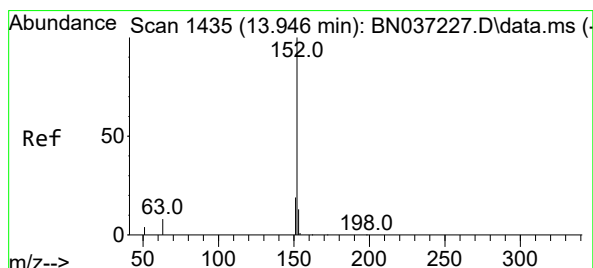
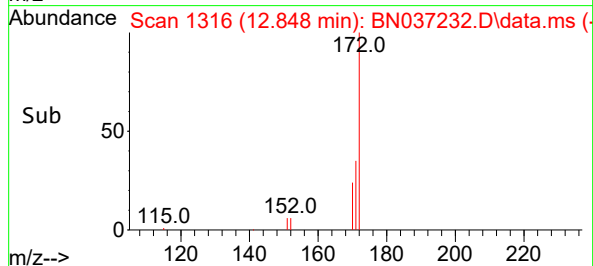
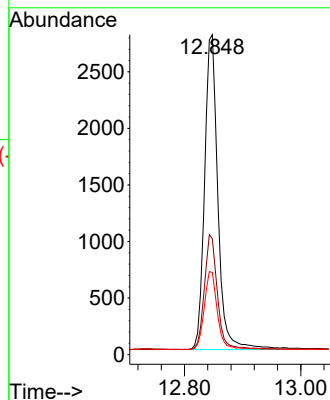
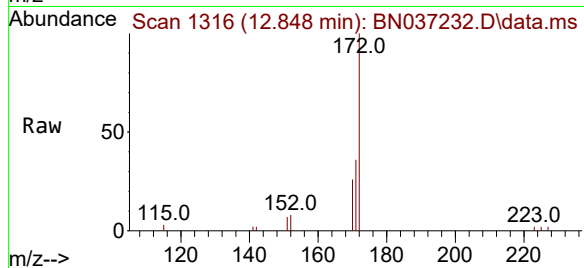
Tgt Ion:172 Resp: 4427

Ion Ratio Lower Upper

172 100

171 36.2 29.8 44.8

170 25.7 21.1 31.7



#16

Acenaphthylene

Concen: 0.409 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

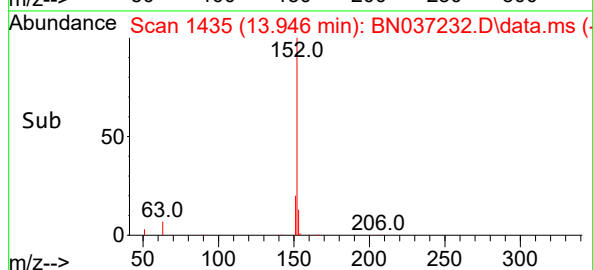
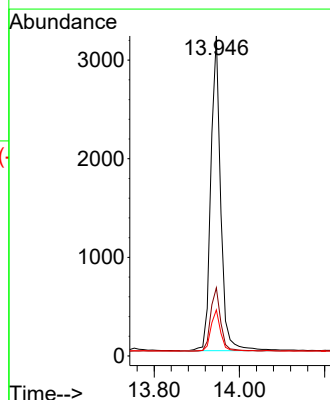
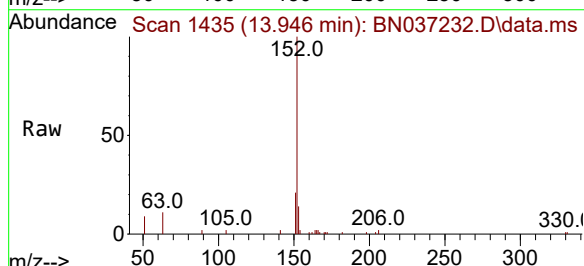
Tgt Ion:152 Resp: 5109

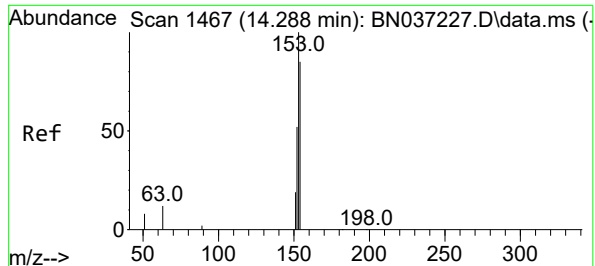
Ion Ratio Lower Upper

152 100

151 20.7 15.7 23.5

153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 0.378 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

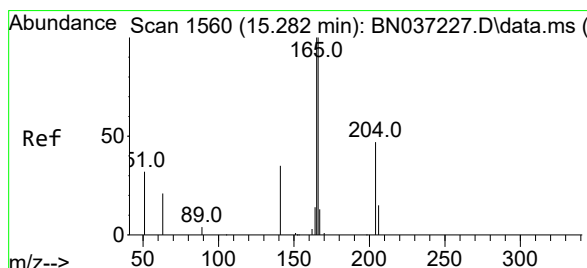
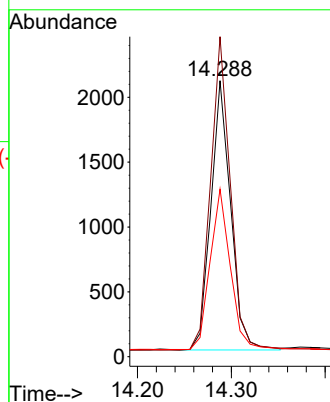
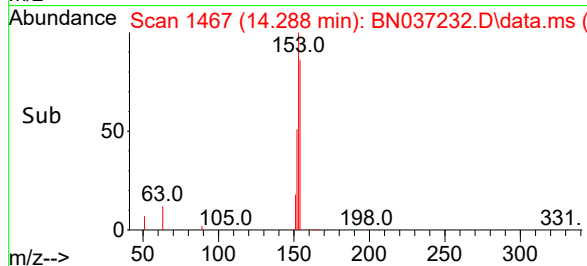
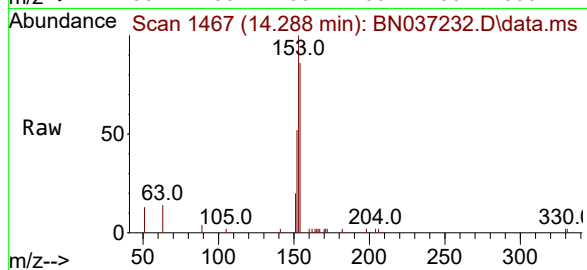
Tgt Ion:154 Resp: 3050

Ion Ratio Lower Upper

154 100

153 117.3 94.6 141.8

152 61.5 49.6 74.4



#18

Fluorene

Concen: 0.369 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

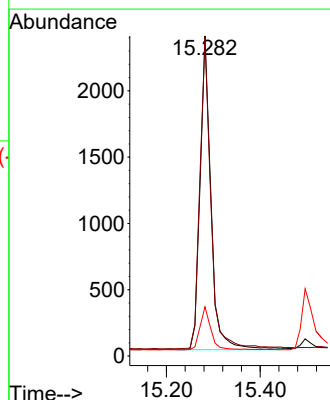
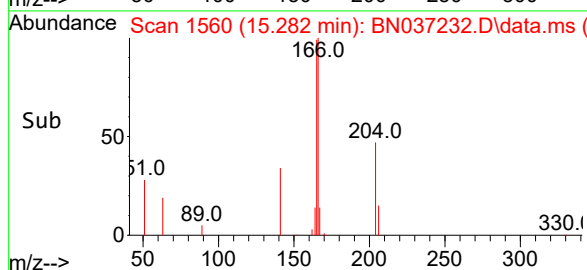
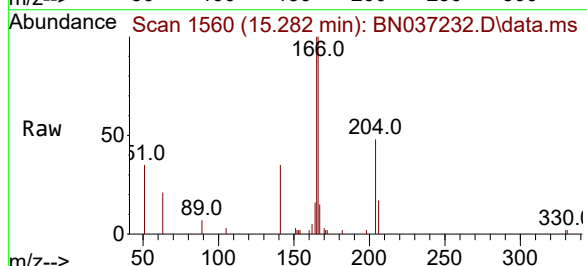
Tgt Ion:166 Resp: 3826

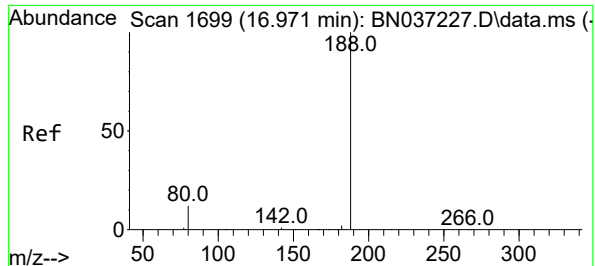
Ion Ratio Lower Upper

166 100

165 99.5 79.8 119.6

167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

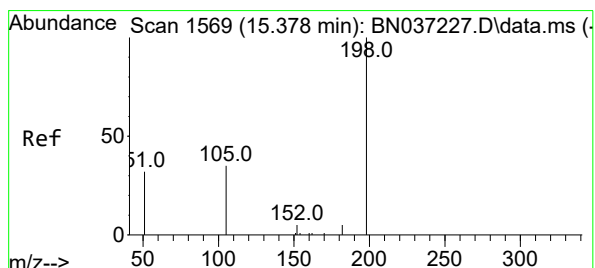
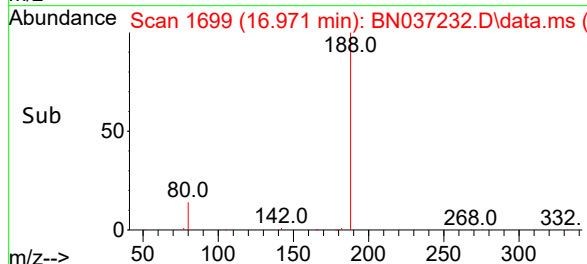
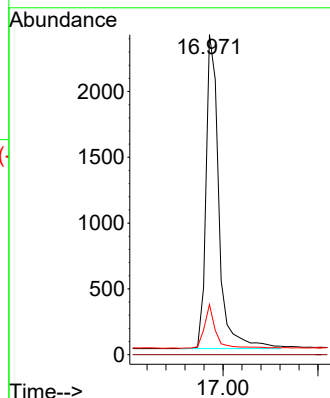
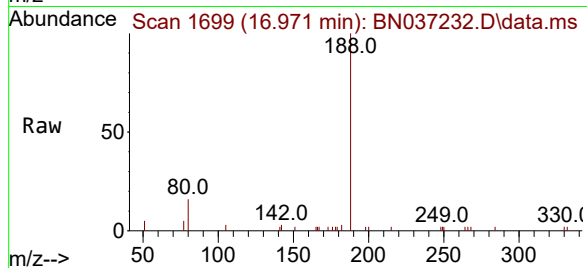
Tgt Ion:188 Resp: 4515

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

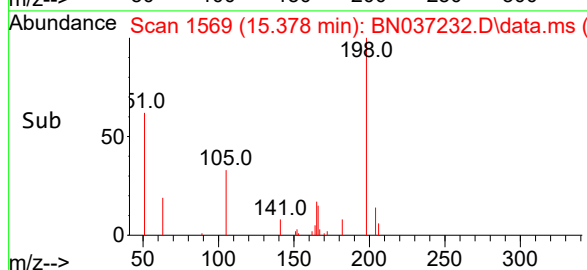
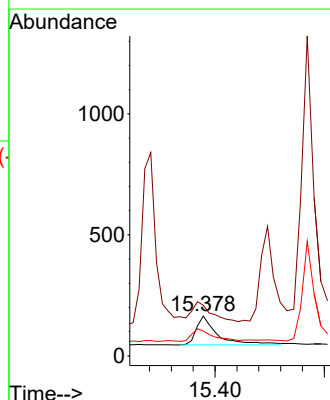
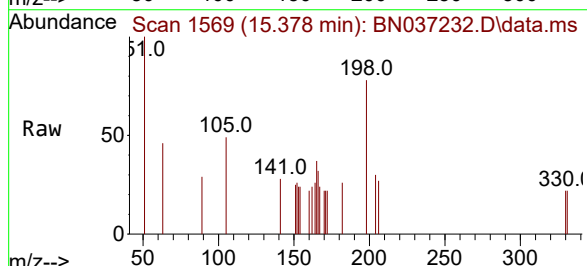
Tgt Ion:198 Resp: 326

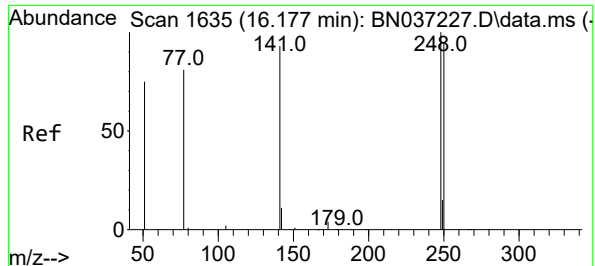
Ion Ratio Lower Upper

198 100

51 127.4 111.2 166.8

105 62.8 54.0 81.0

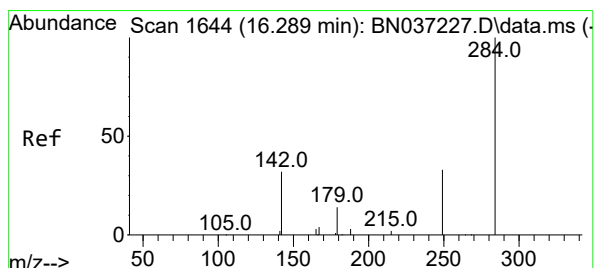
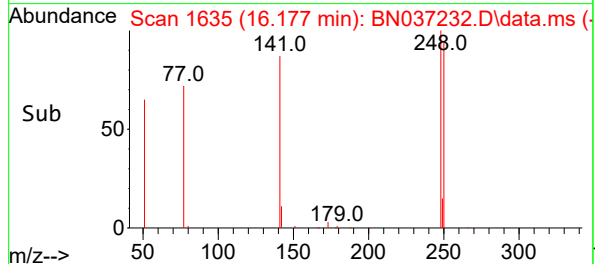
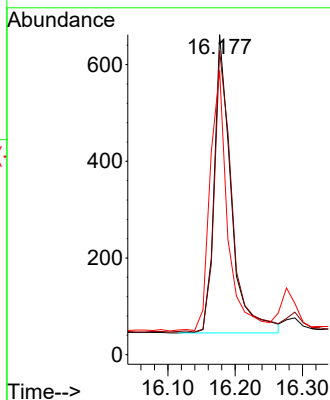
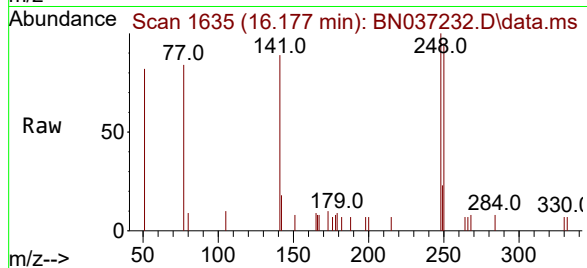




#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

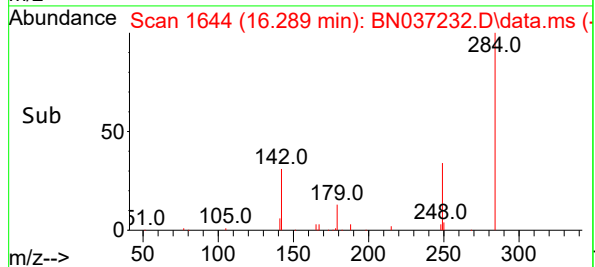
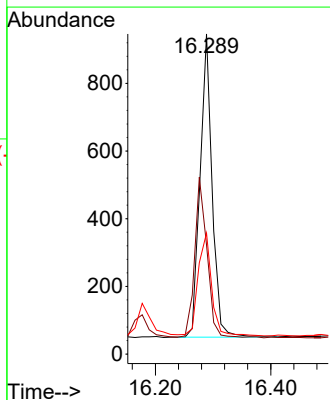
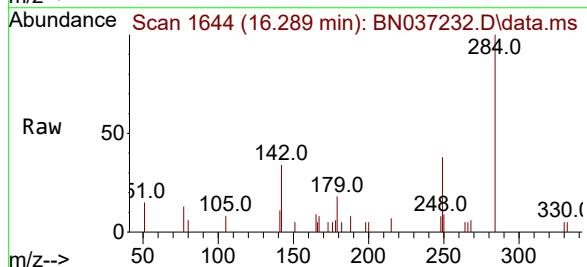
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

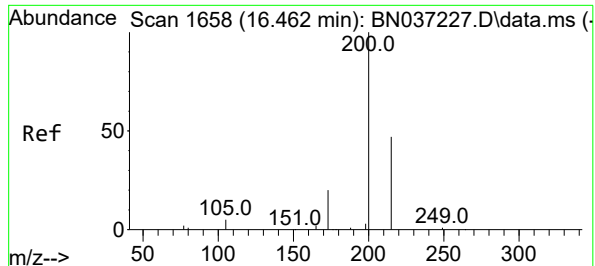
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.0	76.8	115.2
141	88.8	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	55.1	43.8	65.6
249	38.3	28.4	42.6

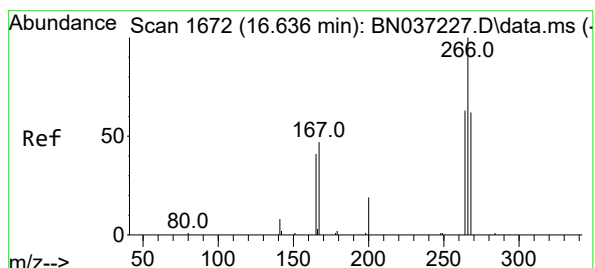
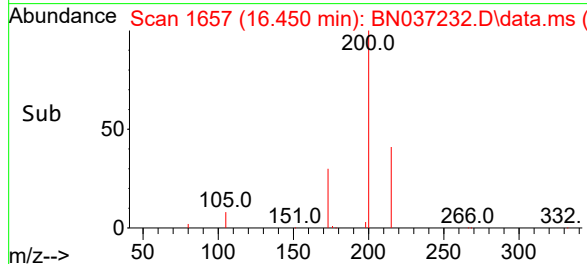
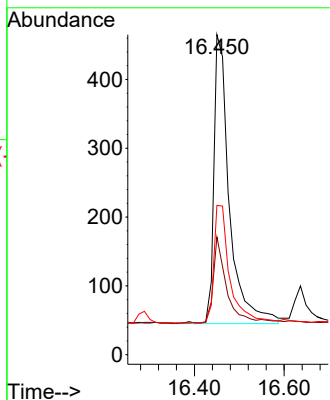
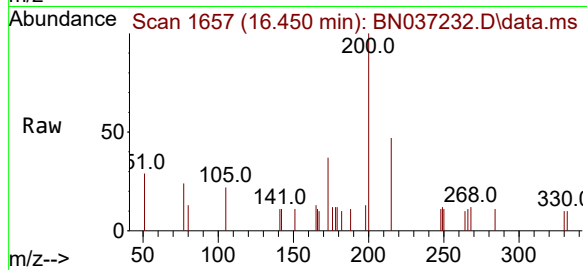




#23
Atrazine
Concen: 0.383 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

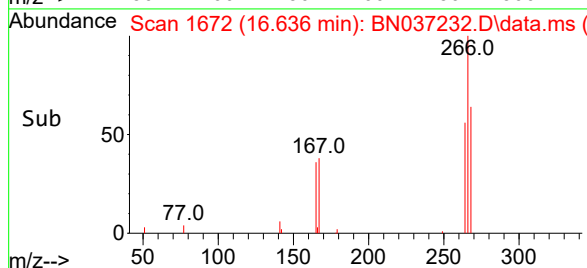
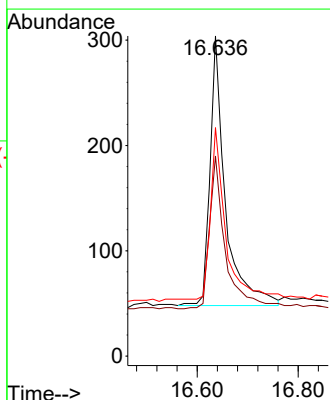
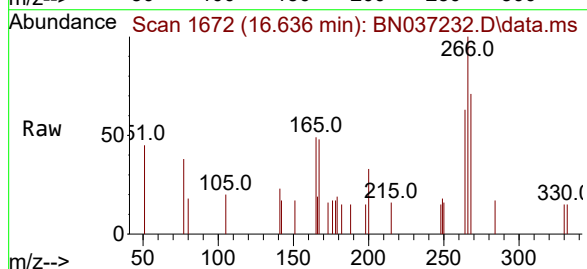
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

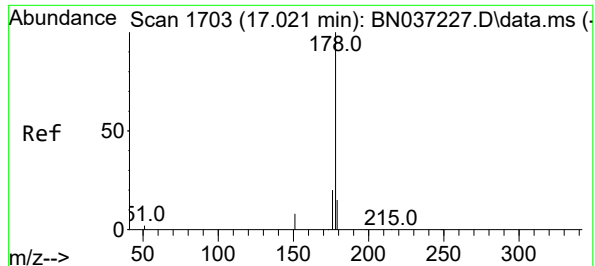
Tgt Ion:200 Resp: 1004
Ion Ratio Lower Upper
200 100
173 36.8 25.1 37.7
215 46.7 43.7 65.5



#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:266 Resp: 540
Ion Ratio Lower Upper
266 100
264 59.1 49.2 73.8
268 62.0 53.4 80.2

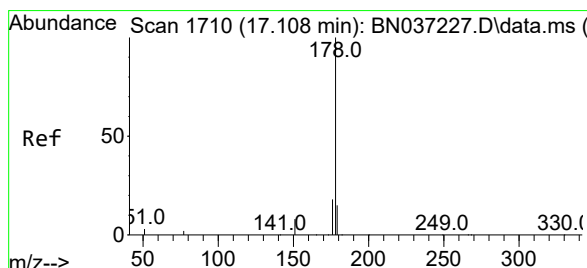
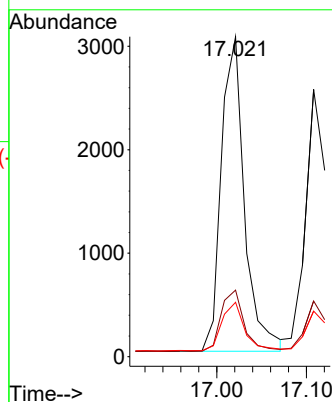
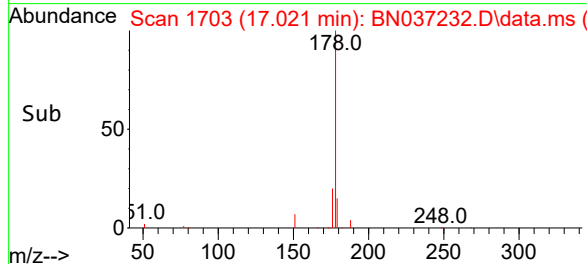
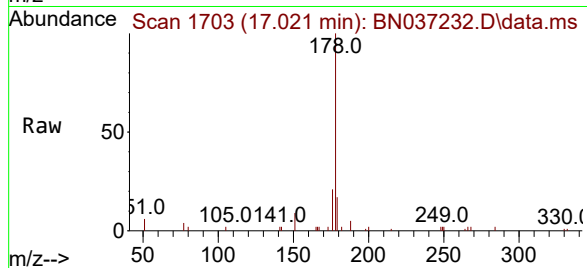




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

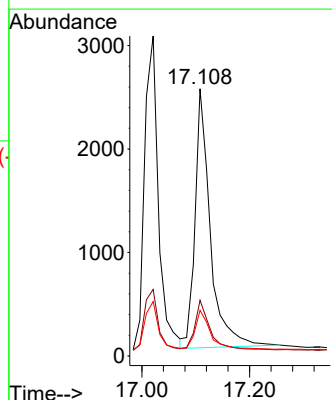
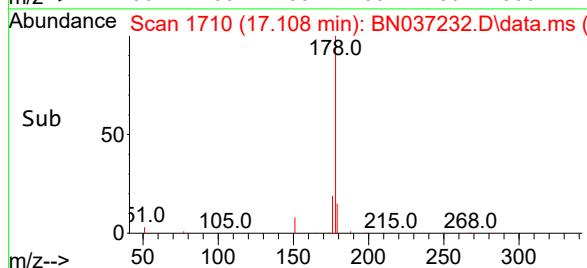
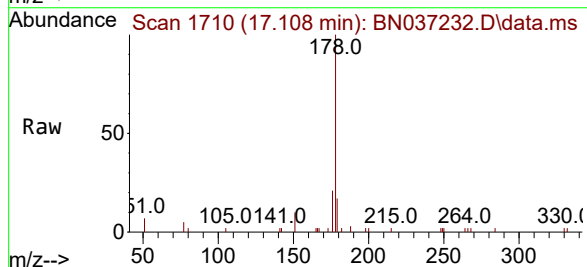
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

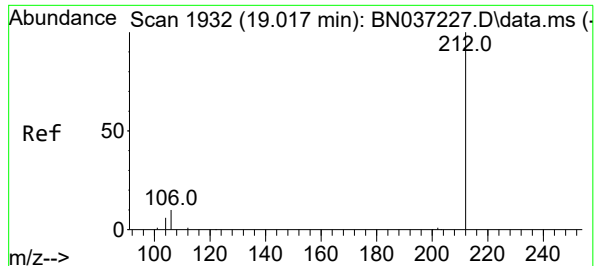
Tgt Ion:178 Resp: 5458
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 15.4 12.6 18.8



#26
Anthracene
Concen: 0.376 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:178 Resp: 4934
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.369 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

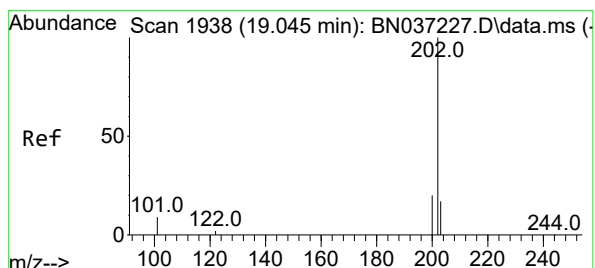
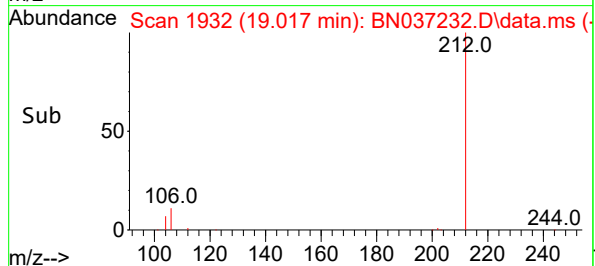
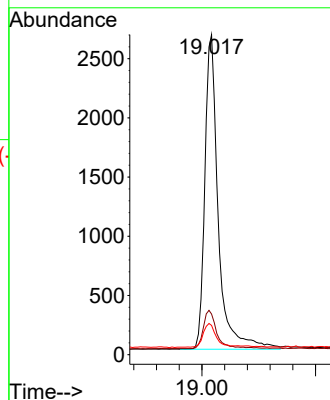
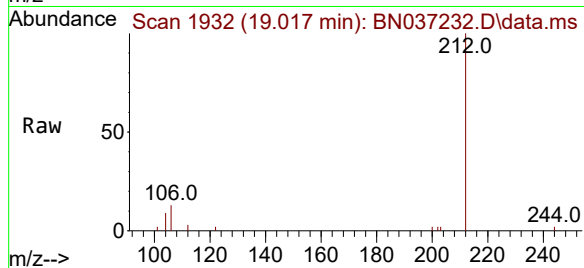
Tgt Ion:212 Resp: 4358

Ion Ratio Lower Upper

212 100

106 12.4 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 0.354 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

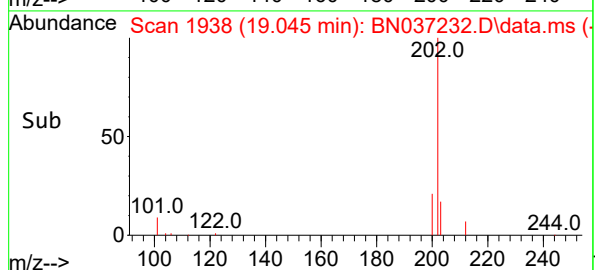
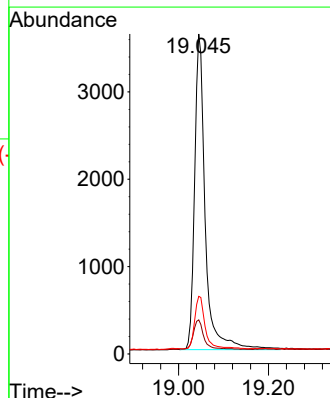
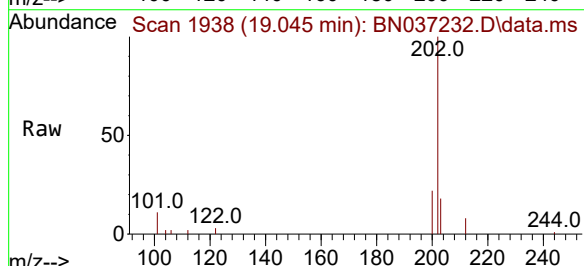
Tgt Ion:202 Resp: 5935

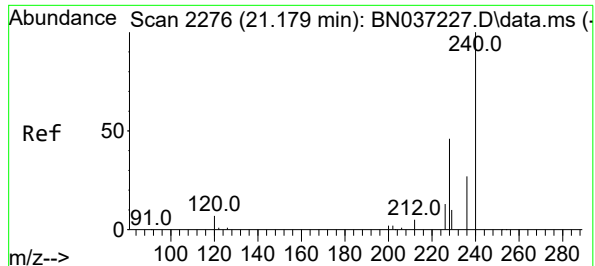
Ion Ratio Lower Upper

202 100

101 10.1 7.1 10.7

203 16.8 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

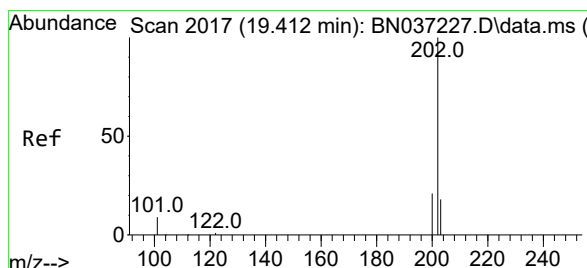
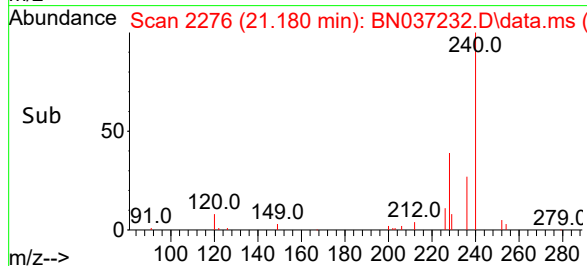
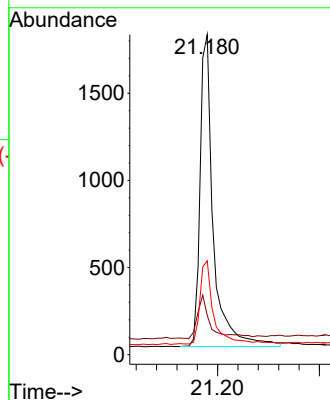
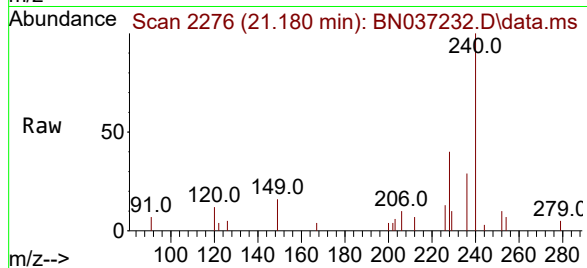
Tgt Ion:240 Resp: 3230

Ion Ratio Lower Upper

240 100

120 12.3 11.3 16.9

236 29.4 24.4 36.6



#30

Pyrene

Concen: 0.392 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

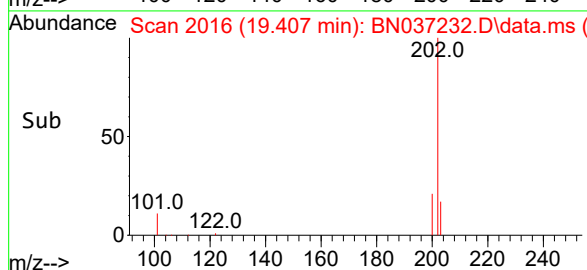
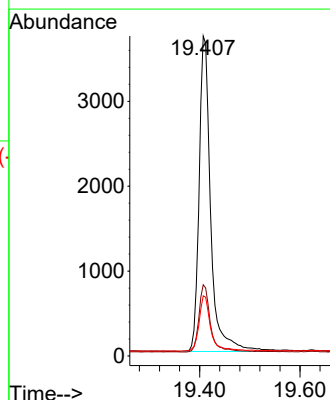
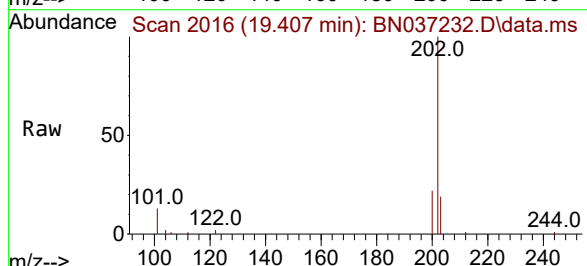
Tgt Ion:202 Resp: 5948

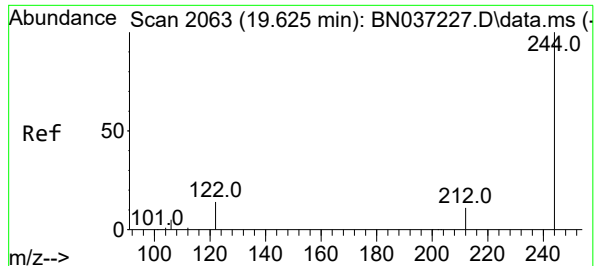
Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 0.417 ng

RT: 19.625 min Scan# 2063

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

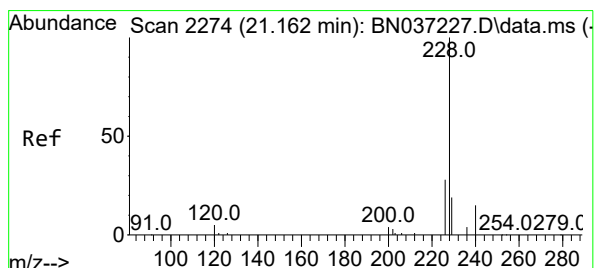
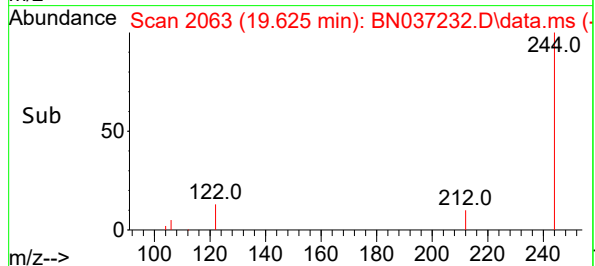
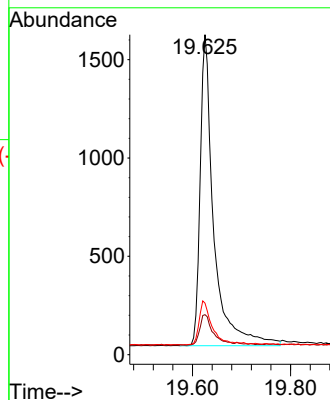
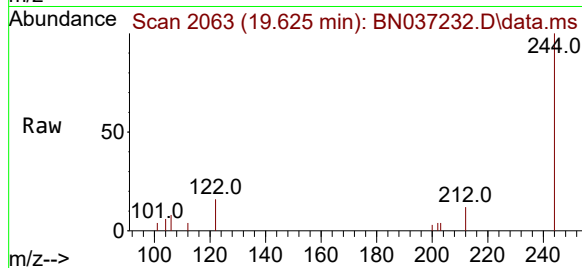
Tgt Ion:244 Resp: 3044

Ion Ratio Lower Upper

244 100

212 12.5 12.2 18.2

122 16.1 14.3 21.5



#32

Benzo(a)anthracene

Concen: 0.384 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

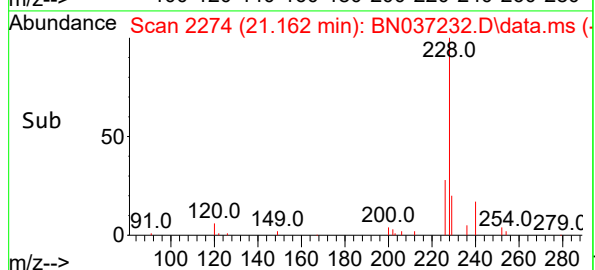
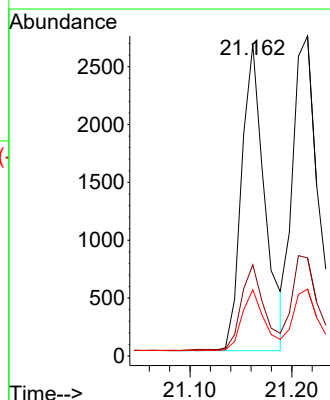
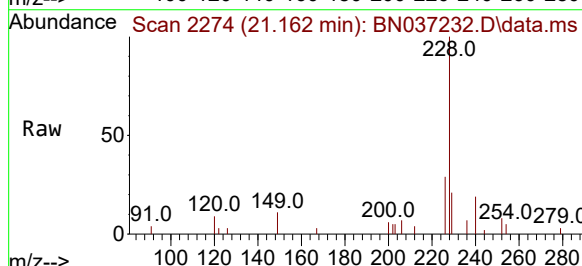
Tgt Ion:228 Resp: 4183

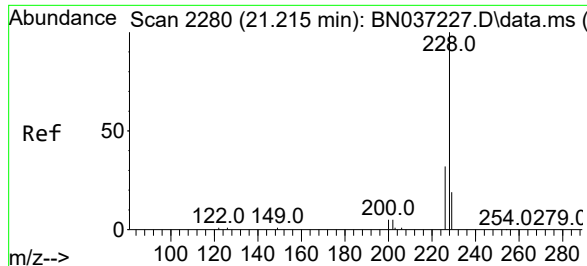
Ion Ratio Lower Upper

228 100

226 29.3 23.8 35.8

229 21.2 17.0 25.4





#33

Chrysene

Concen: 0.390 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

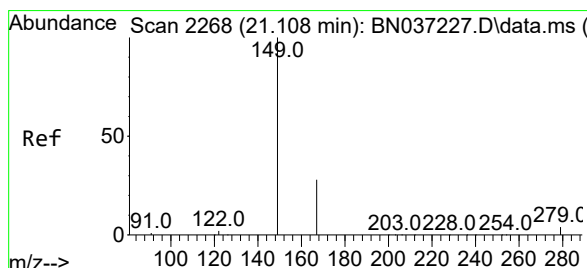
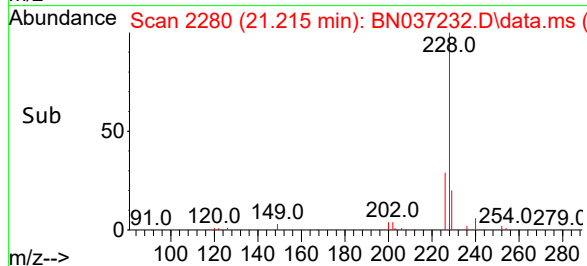
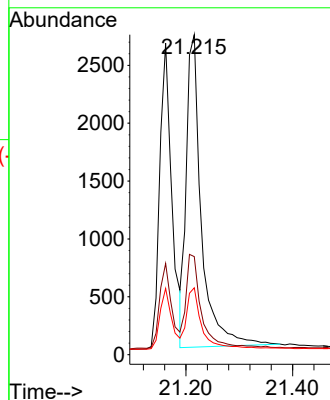
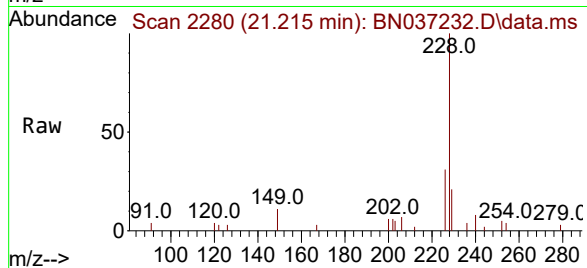
Tgt Ion:228 Resp: 5302

Ion Ratio Lower Upper

228 100

226 30.6 25.8 38.6

229 20.9 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.373 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

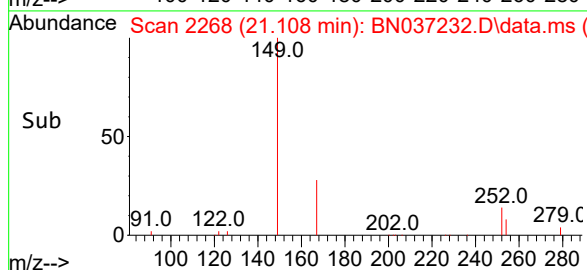
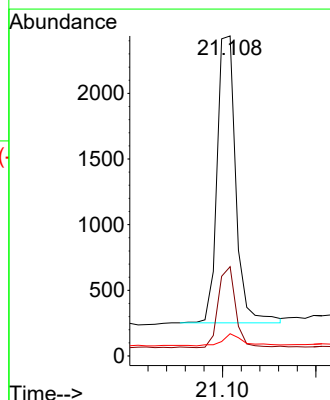
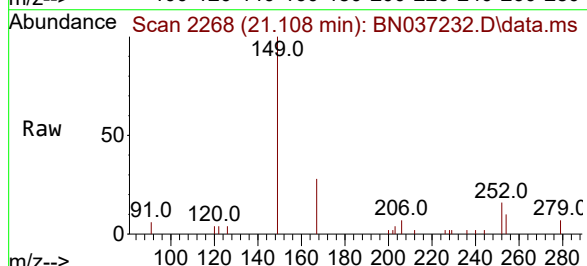
Tgt Ion:149 Resp: 3027

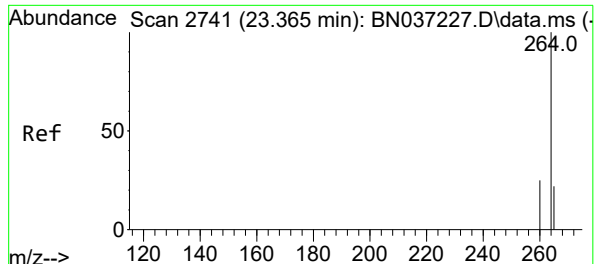
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

279 4.7 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

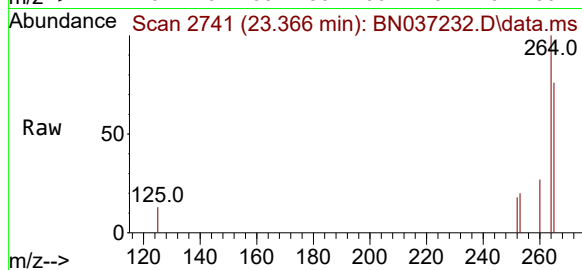
Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325



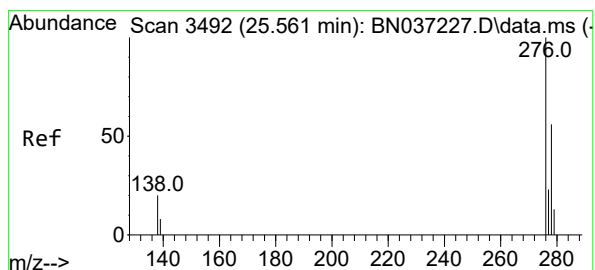
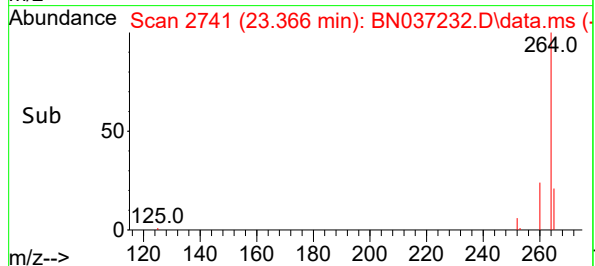
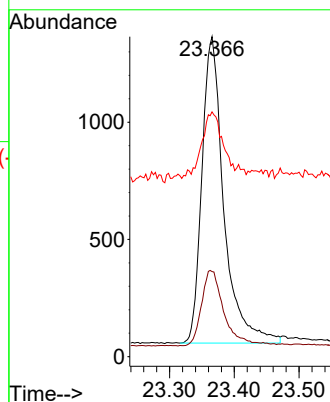
Tgt Ion:264 Resp: 3076

Ion Ratio Lower Upper

264 100

260 26.6 22.8 34.2

265 76.5 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.389 ng

RT: 25.558 min Scan# 3491

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

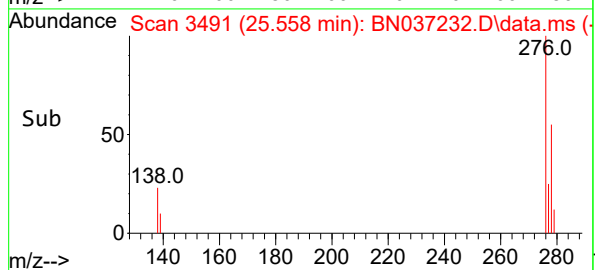
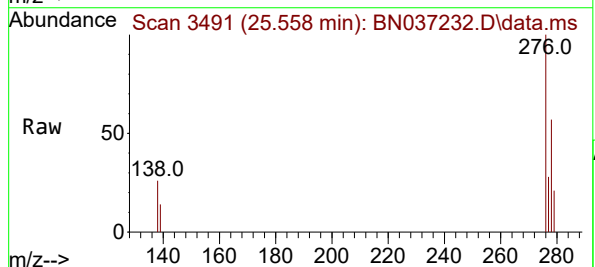
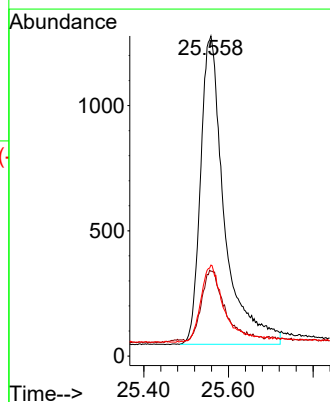
Tgt Ion:276 Resp: 4825

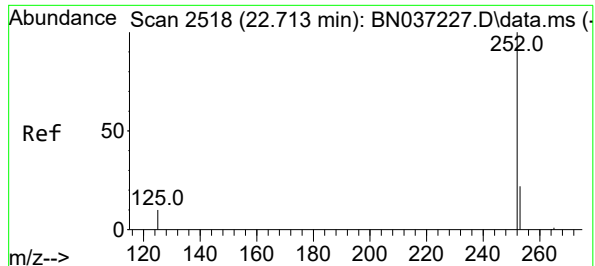
Ion Ratio Lower Upper

276 100

138 21.3 16.8 25.2

277 23.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

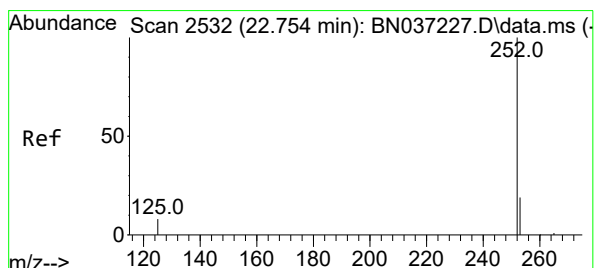
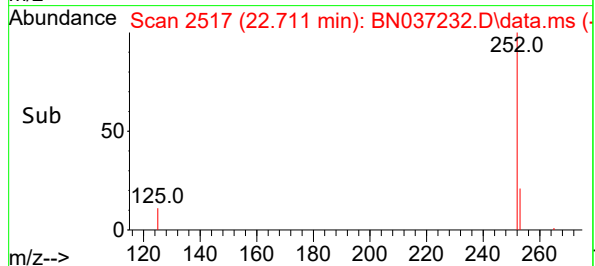
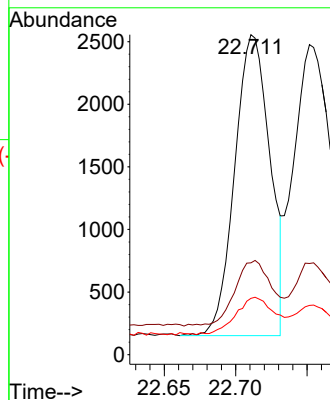
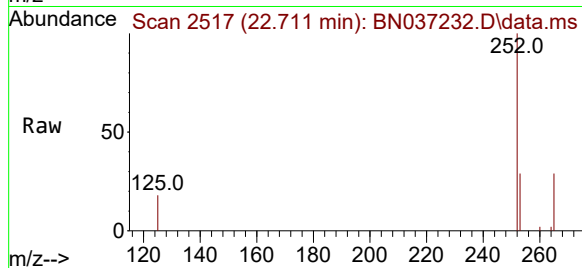
Tgt Ion:252 Resp: 4122

Ion Ratio Lower Upper

252 100

253 28.7 24.9 37.3

125 17.6 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.363 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

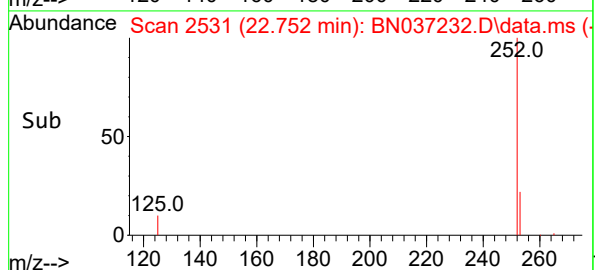
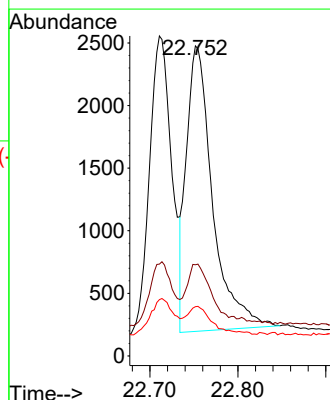
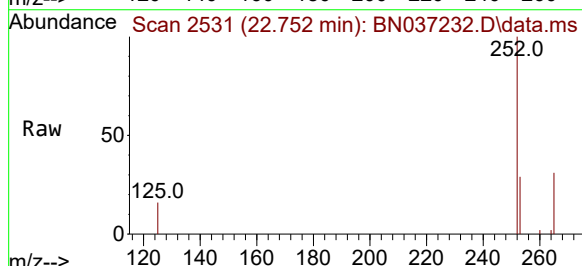
Tgt Ion:252 Resp: 4721

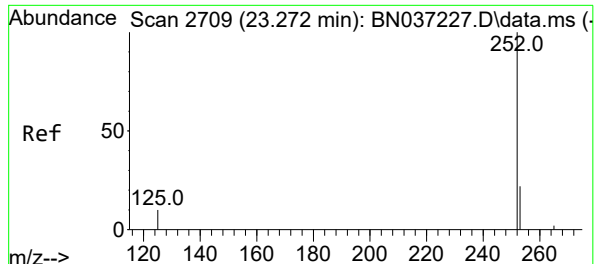
Ion Ratio Lower Upper

252 100

253 29.4 24.6 37.0

125 15.9 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.404 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

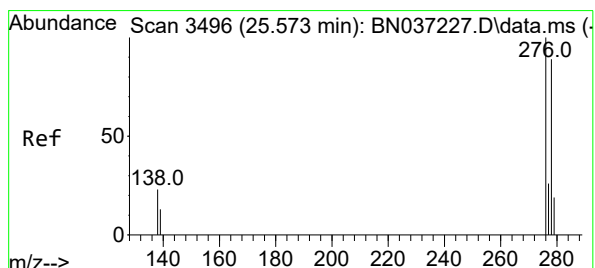
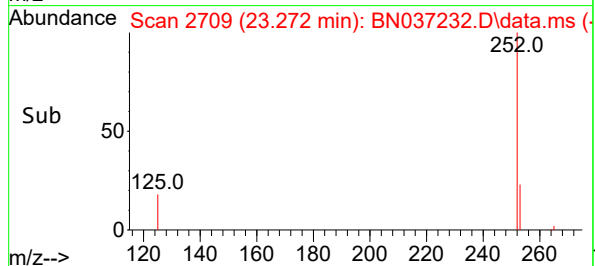
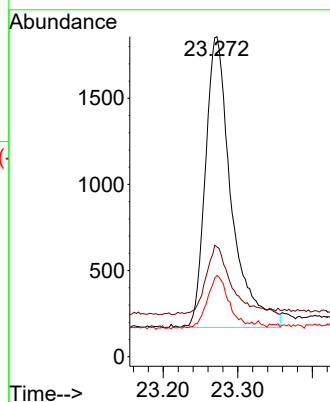
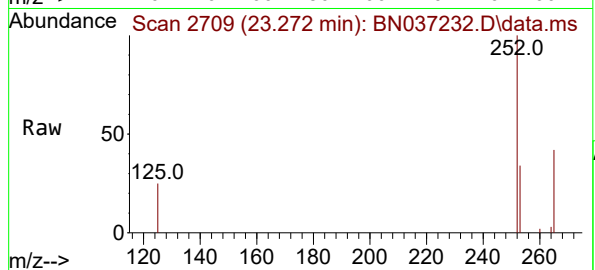
Instrument :

BNA_N

ClientSampleId :

ICVBN061325

Tgt Ion:252	Resp:	4086
Ion Ratio	Lower	Upper
252	100	
253	34.3	29.4 44.2
125	25.4	16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

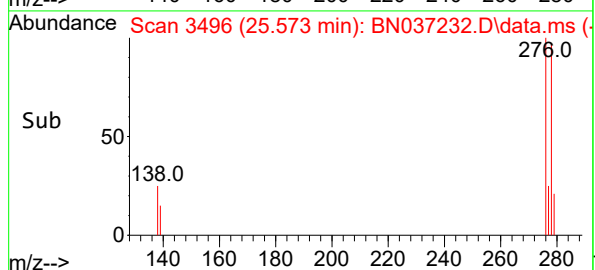
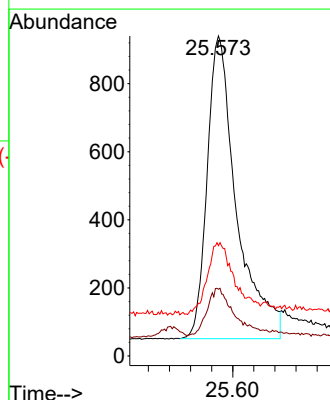
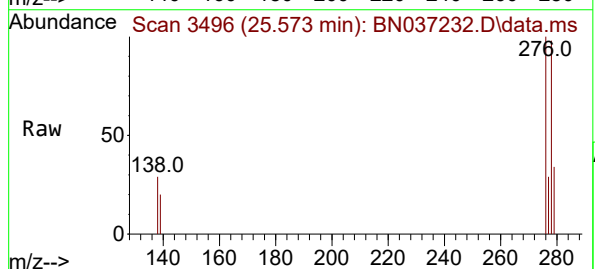
RT: 25.573 min Scan# 3496

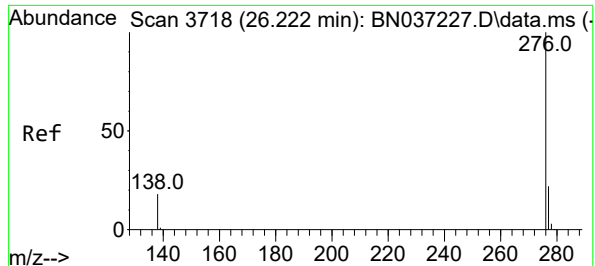
Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Tgt Ion:278	Resp:	3443
Ion Ratio	Lower	Upper
278	100	
139	20.9	17.8 26.6
279	34.5	31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.354 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037232.D

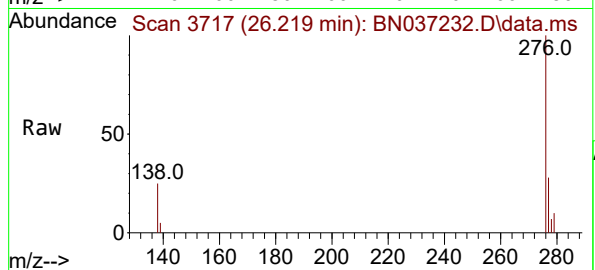
Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325



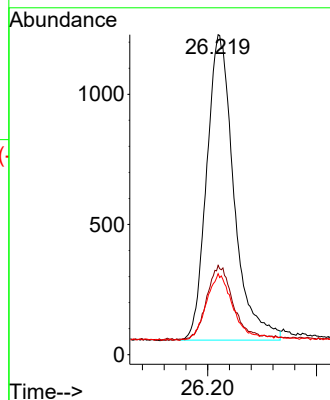
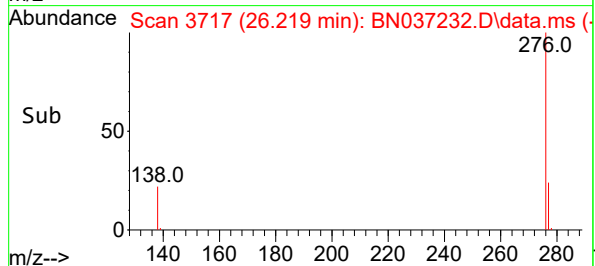
Tgt Ion:276 Resp: 4068

Ion Ratio Lower Upper

276 100

277 27.9 22.0 33.0

138 25.3 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037232.D
 Acq On : 13 Jun 2025 17:47
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	154#	0.00
2	1,4-Dioxane	0.549	0.551	-0.4	162#	0.00
3	n-Nitrosodimethylamine	1.250	1.137	9.0	137	0.00
4 S	2-Fluorophenol	0.982	0.864	12.0	142	0.00
5 S	Phenol-d6	1.035	0.931	10.0	149	0.00
6	bis(2-Chloroethyl)ether	0.927	1.062	-14.6	188#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	153#	-0.01
8 S	Nitrobenzene-d5	0.395	0.406	-2.8	161#	0.00
9	Naphthalene	1.158	1.119	3.4	151#	0.00
10	Hexachlorobutadiene	0.282	0.269	4.6	136	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.533	0.7	146	0.00
12	2-Methylnaphthalene	0.704	0.627	10.9	136	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	147	0.00
14 S	2,4,6-Tribromophenol	0.166	0.128	22.9	110	0.00
15 S	2-Fluorobiphenyl	1.681	1.735	-3.2	150	0.00
16	Acenaphthylene	1.960	2.002	-2.1	157#	0.00
17	Acenaphthene	1.265	1.195	5.5	142	0.00
18	Fluorene	1.625	1.499	7.8	138	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	141	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.072	21.7	155#	0.00
21	4-Bromophenyl-phenylether	0.261	0.240	8.0	139	0.00
22	Hexachlorobenzene	0.302	0.287	5.0	130	0.00
23	Atrazine	0.232	0.222	4.3	141	-0.01
24	Pentachlorophenol	0.148	0.120	18.9	136	0.00
25	Phenanthrene	1.269	1.209	4.7	144	0.00
26	Anthracene	1.161	1.093	5.9	143	0.00
27 SURR	Fluoranthene-d10	1.046	0.965	7.7	130	0.00
28	Fluoranthene	1.485	1.315	11.4	132	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	141	0.00
30	Pyrene	1.881	1.841	2.1	133	0.00
31 S	Terphenyl-d14	0.904	0.942	-4.2	141	0.00
32	Benzo(a)anthracene	1.351	1.295	4.1	149	0.00
33	Chrysene	1.683	1.641	2.5	137	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.937	6.9	129	0.00
35 I	Perylene-d12	1.000	1.000	0.0	143	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.569	2.7	149	0.00
37	Benzo(b)fluoranthene	1.463	1.340	8.4	139	0.00
38	Benzo(k)fluoranthene	1.689	1.535	9.1	135	0.00
39 C	Benzo(a)pyrene	1.316	1.328	-0.9	154#	0.00
40	Dibenzo(a,h)anthracene	1.227	1.119	8.8	153#	0.00
41	Benzo(g,h,i)perylene	1.496	1.322	11.6	131	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	154	0.00
2	1,4-Dioxane	0.400	0.402	-0.5	162	0.00
3	n-Nitrosodimethylamine	0.400	0.364	9.0	137	0.00
4 S	2-Fluorophenol	0.400	0.352	12.0	142	0.00
5 S	Phenol-d6	0.400	0.360	10.0	149	0.00
6	bis(2-Chloroethyl)ether	0.400	0.458	-14.5	188	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	153	-0.01
8 S	Nitrobenzene-d5	0.400	0.410	-2.5	161	0.00
9	Naphthalene	0.400	0.386	3.5	151	0.00
10	Hexachlorobutadiene	0.400	0.382	4.5	136	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.398	0.5	146	0.00
12	2-Methylnaphthalene	0.400	0.356	11.0	136	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	147	0.00
14 S	2,4,6-Tribromophenol	0.400	0.308	23.0	110	0.00
15 S	2-Fluorobiphenyl	0.400	0.413	-3.2	150	0.00
16	Acenaphthylene	0.400	0.409	-2.2	157	0.00
17	Acenaphthene	0.400	0.378	5.5	142	0.00
18	Fluorene	0.400	0.369	7.8	138	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	141	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.392	2.0	155	0.00
21	4-Bromophenyl-phenylether	0.400	0.368	8.0	139	0.00
22	Hexachlorobenzene	0.400	0.380	5.0	130	0.00
23	Atrazine	0.400	0.383	4.3	141	-0.01
24	Pentachlorophenol	0.400	0.323	19.3	136	0.00
25	Phenanthrene	0.400	0.381	4.8	144	0.00
26	Anthracene	0.400	0.376	6.0	143	0.00
27 SURR	Fluoranthene-d10	0.400	0.369	7.8	130	0.00
28	Fluoranthene	0.400	0.354	11.5	132	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	141	0.00
30	Pyrene	0.400	0.392	2.0	133	0.00
31 S	Terphenyl-d14	0.400	0.417	-4.2	141	0.00
32	Benzo(a)anthracene	0.400	0.384	4.0	149	0.00
33	Chrysene	0.400	0.390	2.5	137	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.373	6.8	129	0.00
35 I	Perylene-d12	0.400	0.400	0.0	143	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	149	0.00
37	Benzo(b)fluoranthene	0.400	0.366	8.5	139	0.00
38	Benzo(k)fluoranthene	0.400	0.363	9.3	135	0.00
39 C	Benzo(a)pyrene	0.400	0.404	-1.0	154	0.00
40	Dibenzo(a,h)anthracene	0.400	0.365	8.8	153	0.00
41	Benzo(g,h,i)perylene	0.400	0.354	11.5	131	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2316 SAS No.: Q2316 SDG No.: Q2316

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 22:31

Lab File ID: BN037273.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.562		4.7	20.0
Fluoranthene-d10	1.047	1.055		0.9	20.0
2-Fluorophenol	0.982	0.959		-2.3	20.0
Phenol-d6	1.035	1.017		-1.7	20.0
Nitrobenzene-d5	0.395	0.415		5.1	20.0
2-Fluorobiphenyl	1.681	1.763		4.9	20.0
2,4,6-Tribromophenol	0.166	0.170		2.4	20.0
Terphenyl-d14	0.904	0.900		-0.4	20.0
1,4-Dioxane	0.549	0.499		-9.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037273.D
 Acq On : 14 Jun 2025 22:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 02:45:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

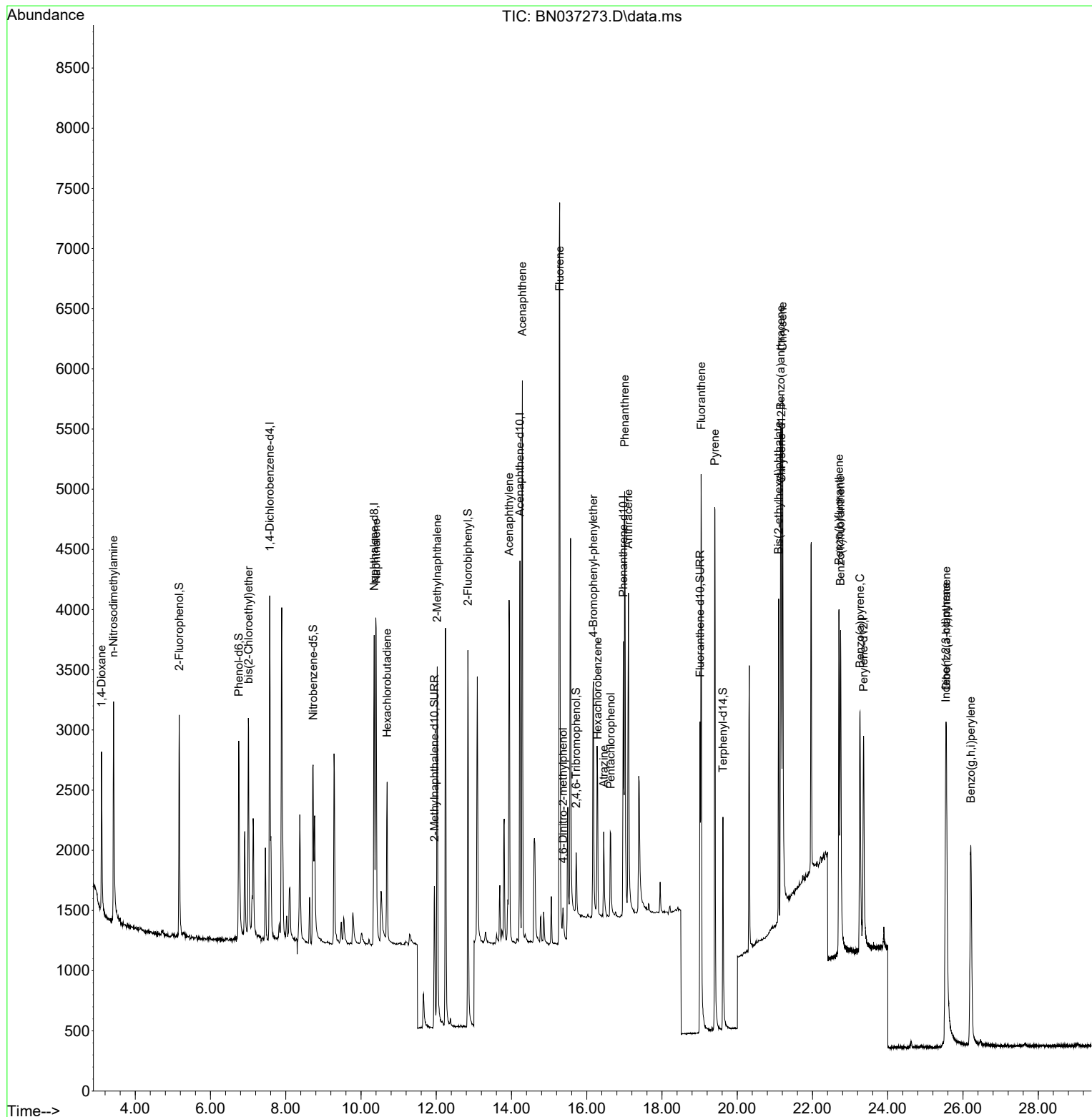
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1389	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3410	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1759	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3220	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	2454	0.400	ng	0.00
35) Perylene-d12	23.357	264	2514	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1332	0.390	ng	0.00
5) Phenol-d6	6.752	99	1412	0.393	ng	0.00
8) Nitrobenzene-d5	8.728	82	1416	0.420	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1918	0.419	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	299	0.409	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	3101	0.420	ng	0.00
27) Fluoranthene-d10	19.012	212	3397	0.403	ng	0.00
31) Terphenyl-d14	19.621	244	2208	0.398	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	693	0.364	ng	Qvalue 96
3) n-Nitrosodimethylamine	3.422	42	1864	0.429	ng	# 93
6) bis(2-Chloroethyl)ether	7.012	93	1404	0.436	ng	93
9) Naphthalene	10.404	128	3924	0.397	ng	99
10) Hexachlorobutadiene	10.693	225	982	0.409	ng	# 97
12) 2-Methylnaphthalene	12.026	142	2355	0.392	ng	98
16) Acenaphthylene	13.935	152	3330	0.386	ng	99
17) Acenaphthene	14.288	154	2169	0.390	ng	98
18) Fluorene	15.282	166	2772	0.388	ng	97
20) 4,6-Dinitro-2-methylph...	15.368	198	265	0.430	ng	94
21) 4-Bromophenyl-phenylether	16.177	248	859	0.409	ng	# 84
22) Hexachlorobenzene	16.289	284	961	0.395	ng	98
23) Atrazine	16.450	200	719	0.384	ng	94
24) Pentachlorophenol	16.636	266	455	0.382	ng	97
25) Phenanthrene	17.009	178	3964	0.388	ng	98
26) Anthracene	17.108	178	3522	0.377	ng	99
28) Fluoranthene	19.040	202	4423	0.370	ng	98
30) Pyrene	19.407	202	4538	0.393	ng	100
32) Benzo(a)anthracene	21.153	228	3255	0.393	ng	98
33) Chrysene	21.207	228	4162	0.403	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2318	0.376	ng	99
36) Indeno(1,2,3-cd)pyrene	25.541	276	4291	0.423	ng	99
37) Benzo(b)fluoranthene	22.705	252	3555	0.387	ng	97
38) Benzo(k)fluoranthene	22.746	252	3981	0.375	ng	97
39) Benzo(a)pyrene	23.260	252	3280	0.397	ng	95
40) Dibenzo(a,h)anthracene	25.558	278	3174	0.412	ng	93
41) Benzo(g,h,i)perylene	26.210	276	3816	0.406	ng	97

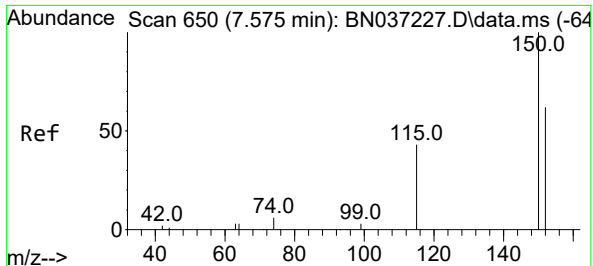
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037273.D
Acq On : 14 Jun 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:45:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

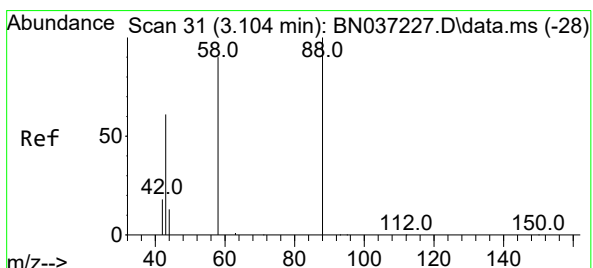
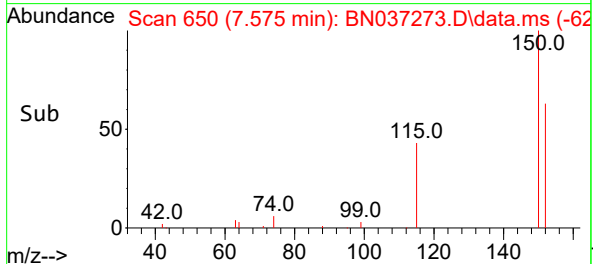
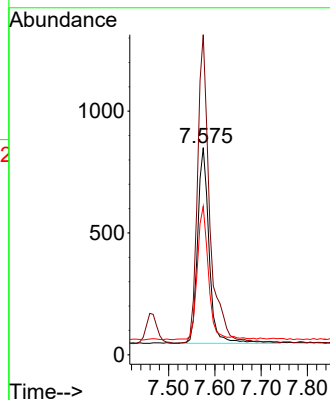
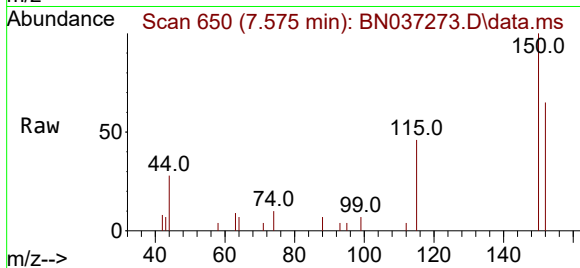




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

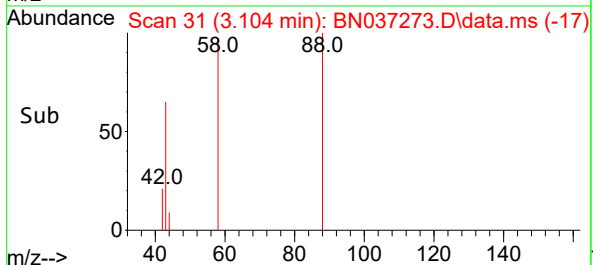
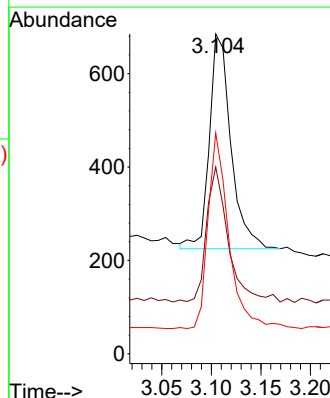
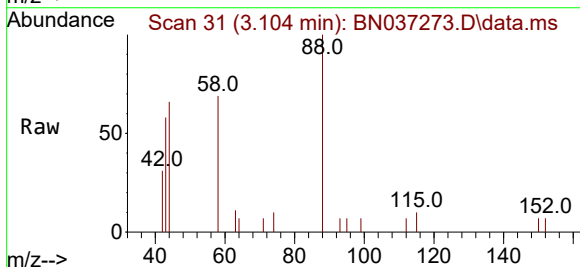
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1389
Ion Ratio Lower Upper
152 100
150 154.6 125.2 187.8
115 71.6 58.4 87.6

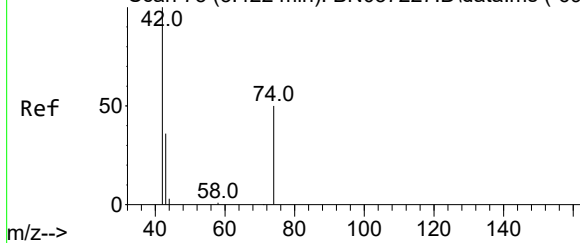


#2
1,4-Dioxane
Concen: 0.364 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion: 88 Resp: 693
Ion Ratio Lower Upper
88 100
43 62.9 52.6 79.0
58 87.4 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.429 ng

RT: 3.422 min Scan# 75

Delta R.T. 0.000 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

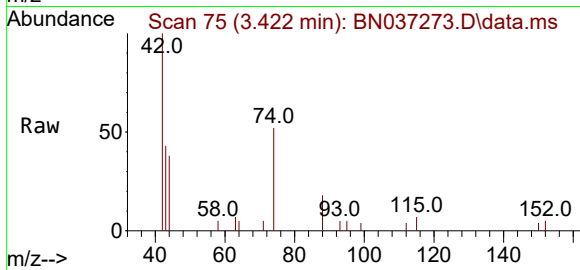
Tgt Ion: 42 Resp: 1864

Ion Ratio Lower Upper

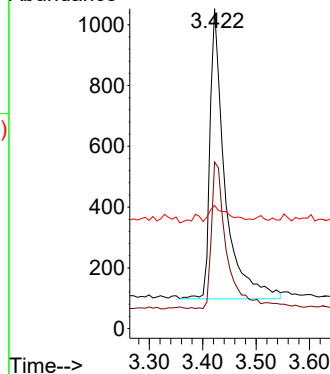
42 100

74 50.3 44.6 66.8

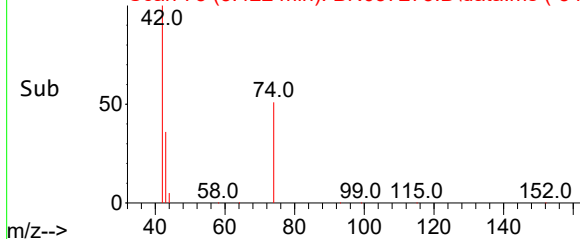
44 6.8 3.5 5.3#



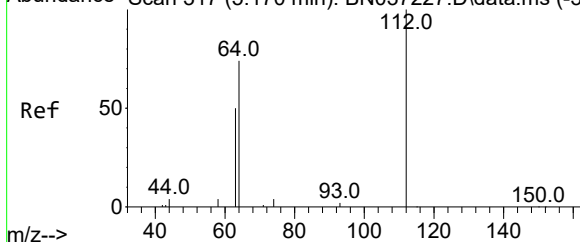
Abundance



Abundance Scan 75 (3.422 min): BN037273.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.390 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

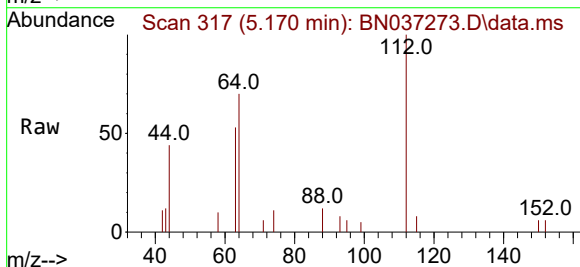
Tgt Ion: 112 Resp: 1332

Ion Ratio Lower Upper

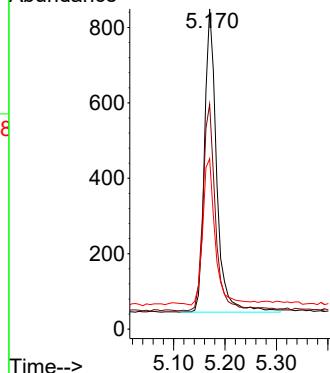
112 100

64 68.3 57.2 85.8

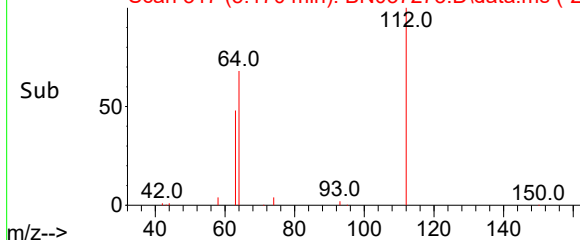
63 49.5 39.8 59.6

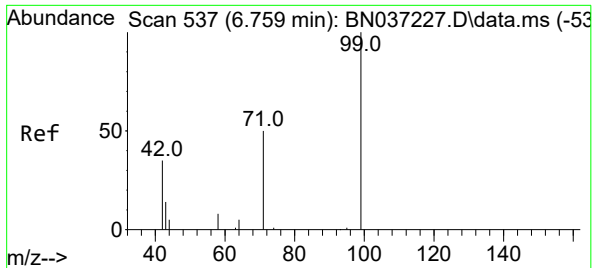


Abundance



Abundance Scan 317 (5.170 min): BN037273.D\data.ms (-28)

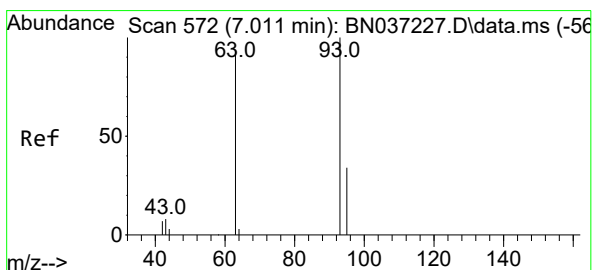
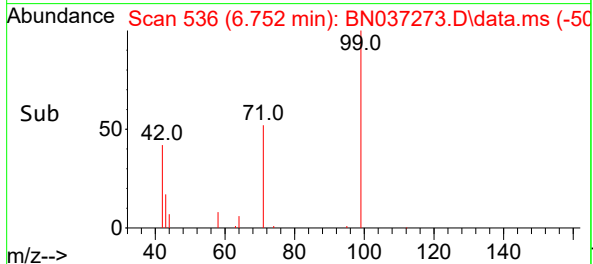
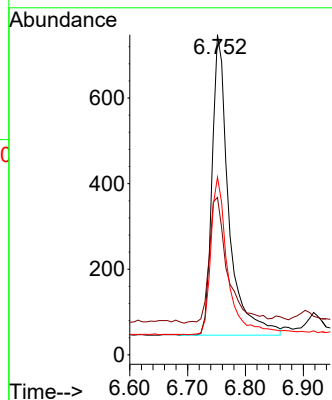
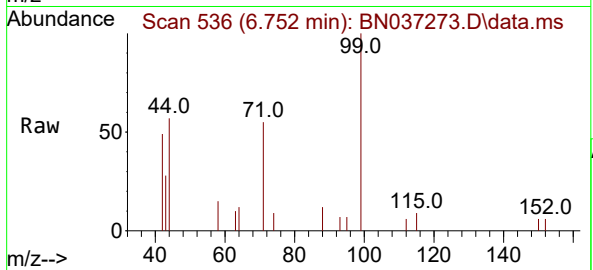




#5
Phenol-d6
Concen: 0.393 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

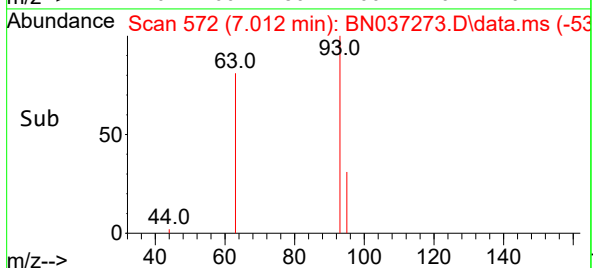
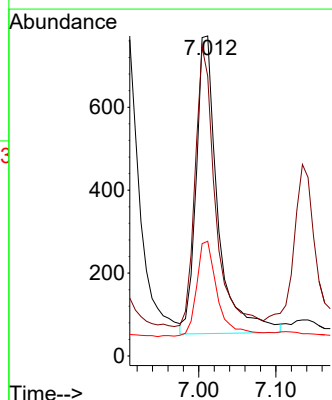
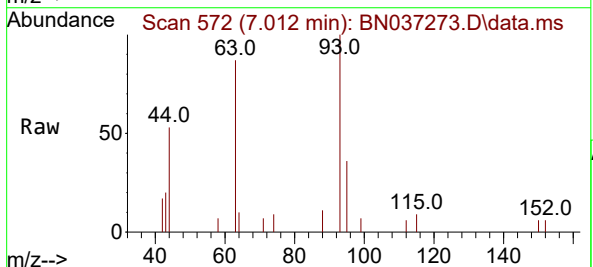
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

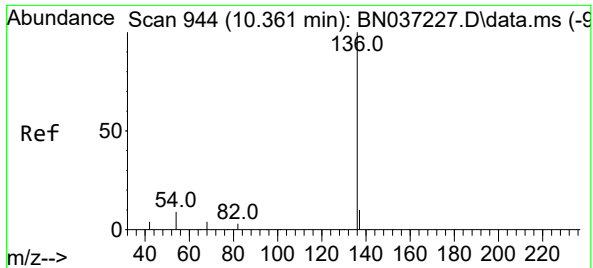
Tgt Ion: 99 Resp: 1412
Ion Ratio Lower Upper
99 100
42 46.5 36.2 54.4
71 55.0 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.436 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion: 93 Resp: 1404
Ion Ratio Lower Upper
93 100
63 87.4 75.2 112.8
95 31.4 28.3 42.5

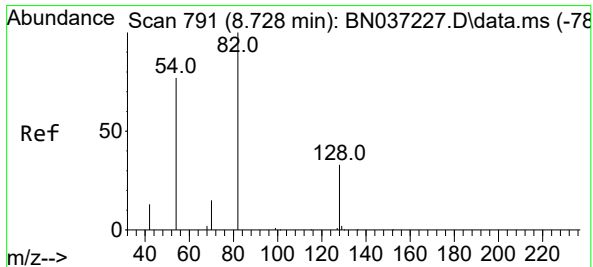
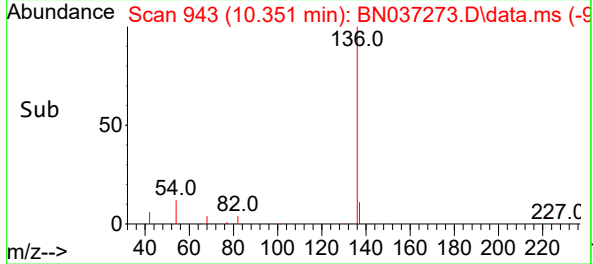
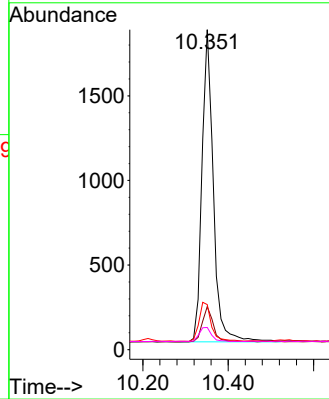
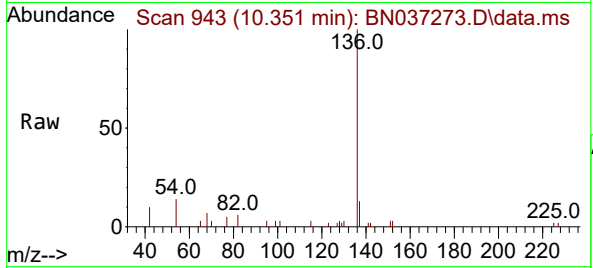




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

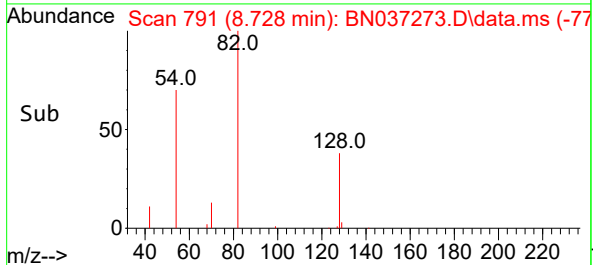
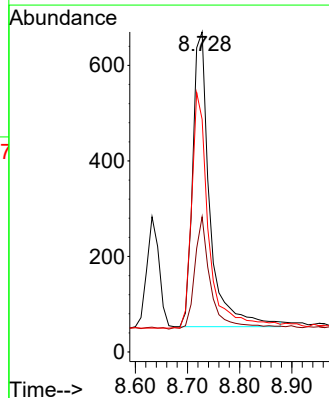
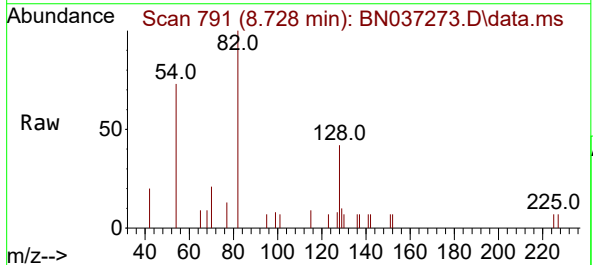
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

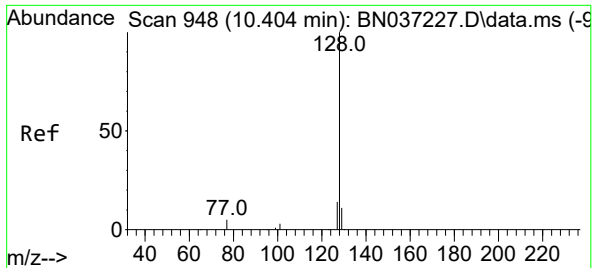
Tgt Ion:	136	Resp:	3410
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.6	15.8
54	14.1	9.2	13.8#
68	6.9	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.420 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:	82	Resp:	1416
Ion	Ratio	Lower	Upper
82	100		
128	42.2	31.2	46.8
54	72.7	63.3	94.9

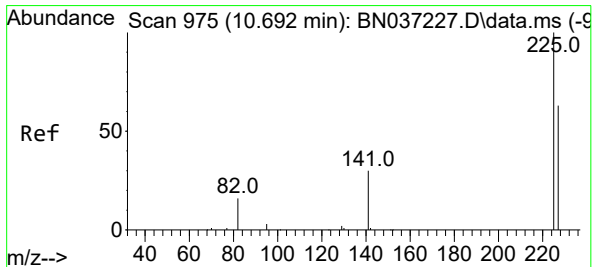
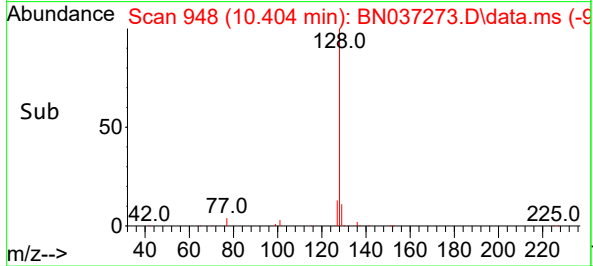
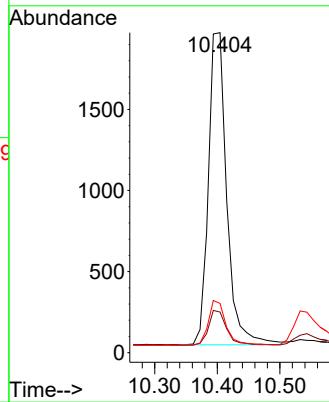
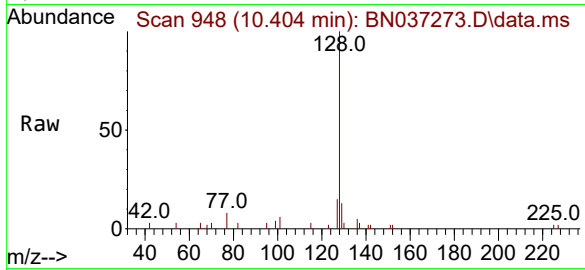




#9
Naphthalene
Concen: 0.397 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

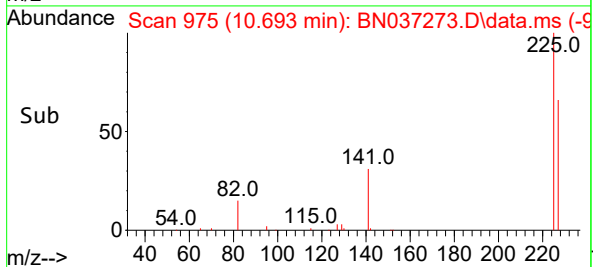
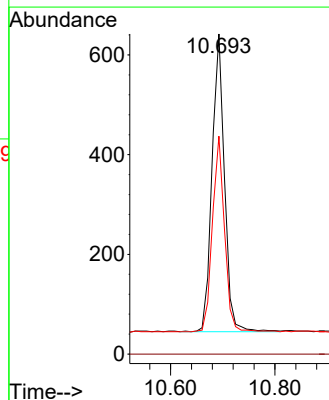
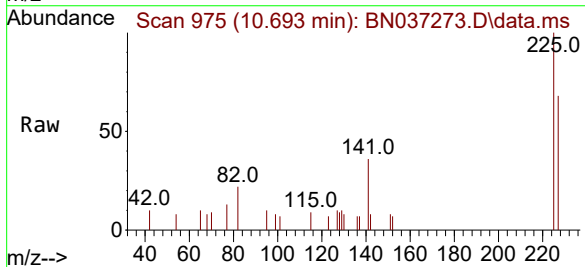
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

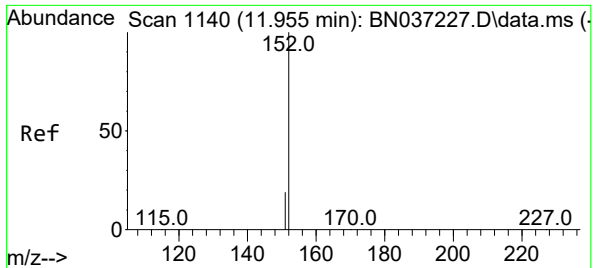
Tgt Ion:	128	Resp:	3924
Ion	Ratio	Lower	Upper
128	100		
129	12.7	10.7	16.1
127	15.4	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:	225	Resp:	982
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	49.2	73.8

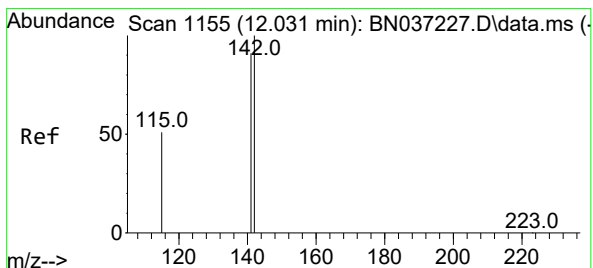
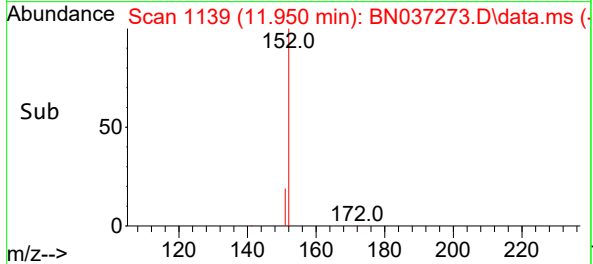
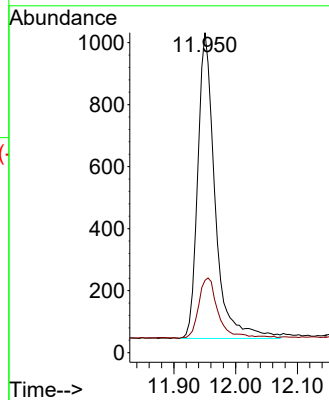
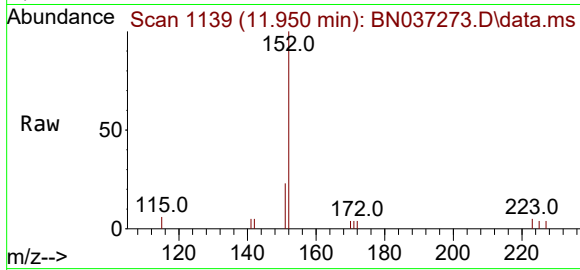




#11
2-Methylnaphthalene-d10
Concen: 0.419 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

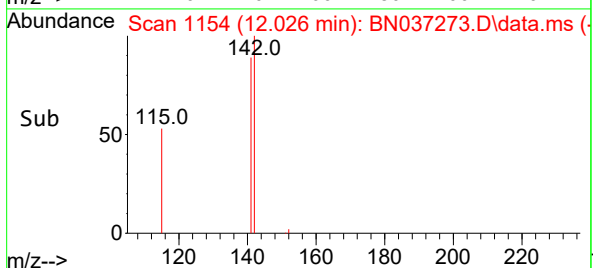
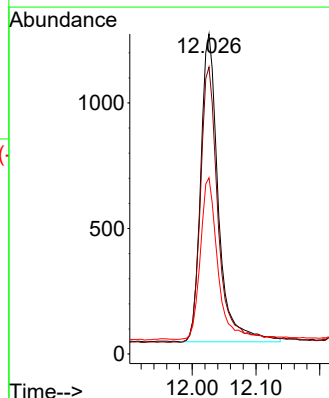
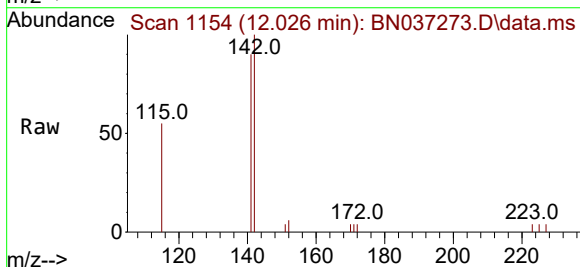
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

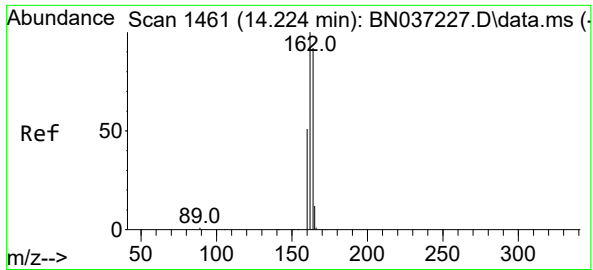
Tgt Ion:152 Resp: 1918
Ion Ratio Lower Upper
152 100
151 21.6 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:142 Resp: 2355
Ion Ratio Lower Upper
142 100
141 89.6 73.0 109.6
115 55.1 43.3 64.9

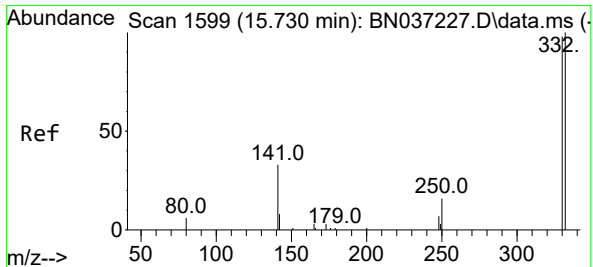
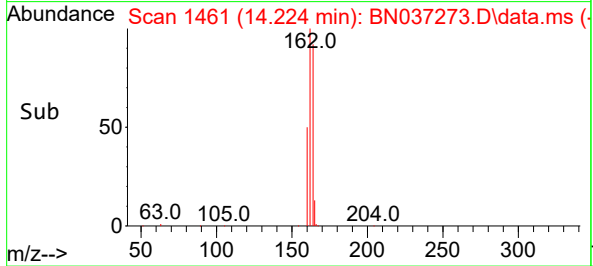
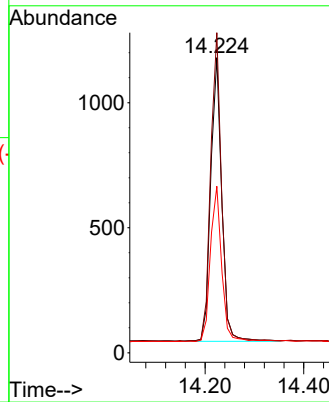
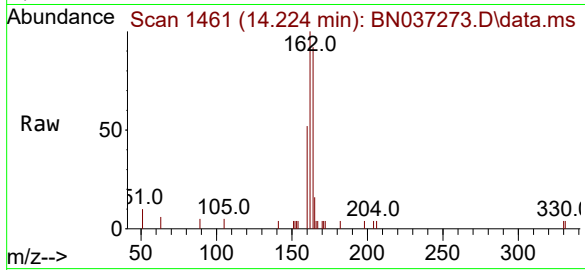




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

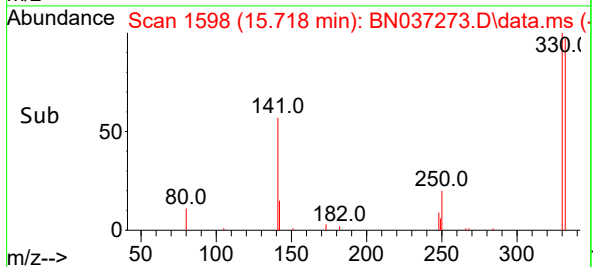
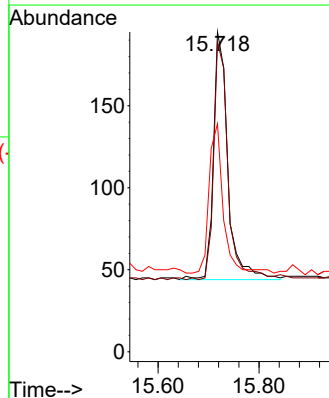
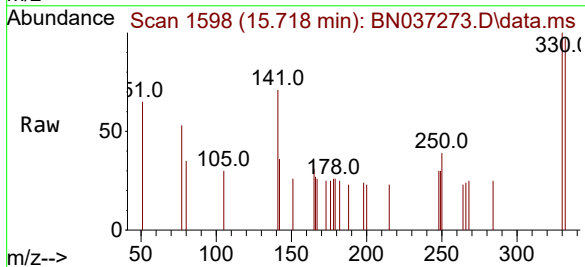
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

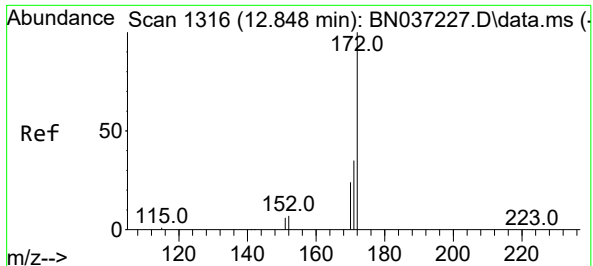
Tgt Ion:	164	Resp:	1759
Ion	Ratio	Lower	Upper
164	100		
162	108.5	86.7	130.1
160	56.4	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 0.409 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:	330	Resp:	299
Ion	Ratio	Lower	Upper
330	100		
332	95.0	74.9	112.3
141	58.9	45.1	67.7



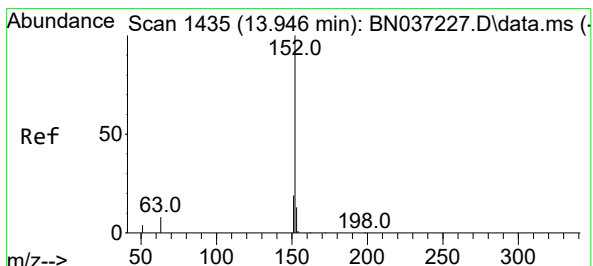
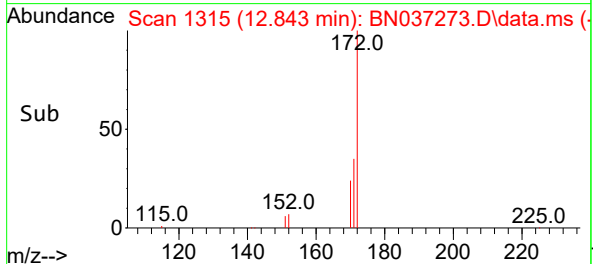
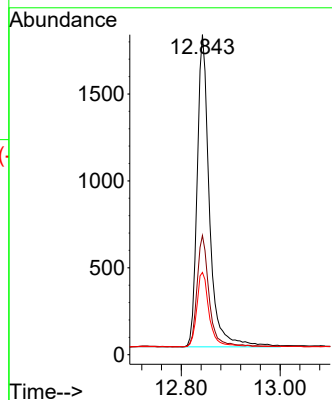
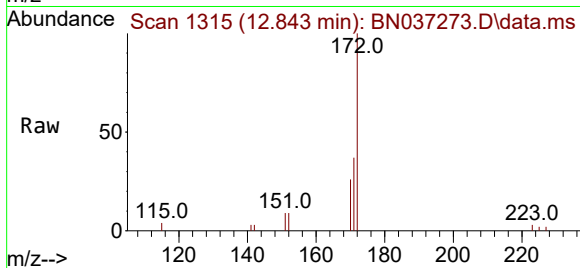


#15
2-Fluorobiphenyl
Concen: 0.420 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 3101

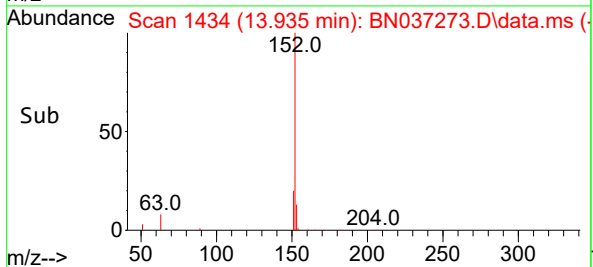
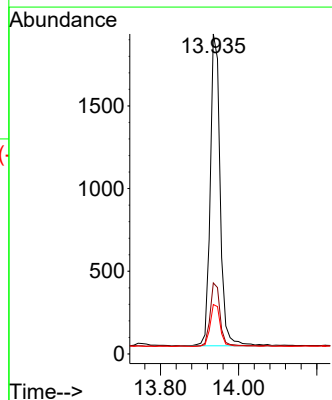
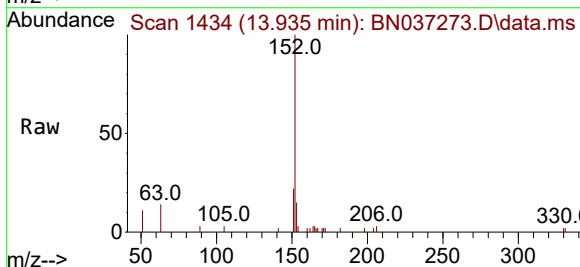
Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.8	44.8
170	25.7	21.1	31.7

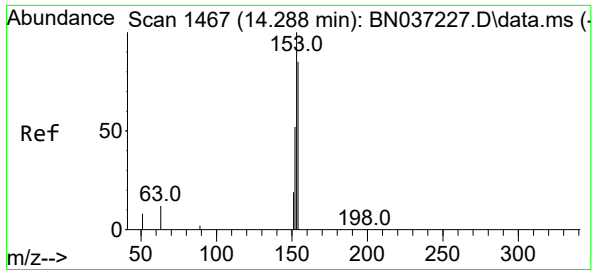


#16
Acenaphthylene
Concen: 0.386 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:152 Resp: 3330

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	13.8	10.7	16.1

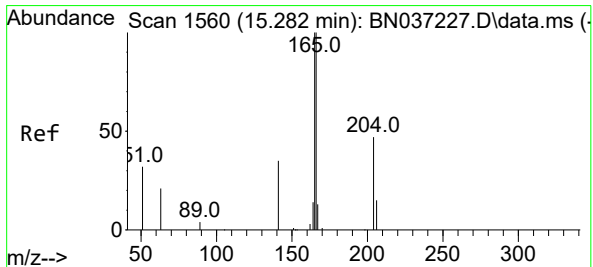
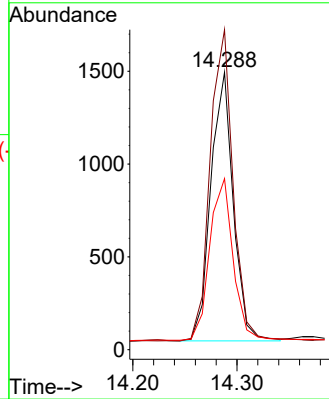
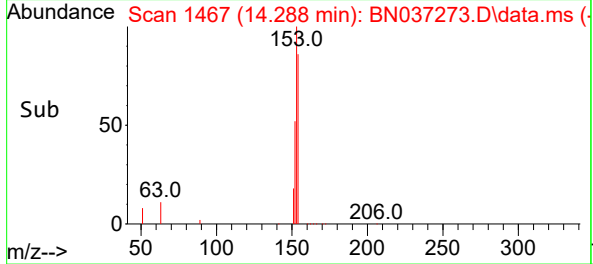
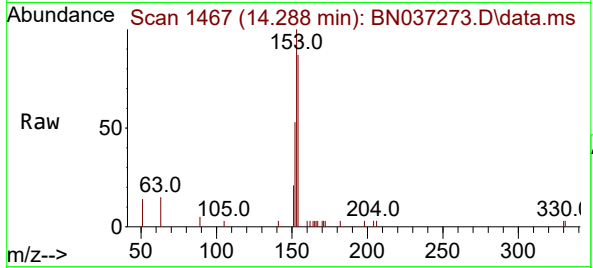




#17
Acenaphthene
Concen: 0.390 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

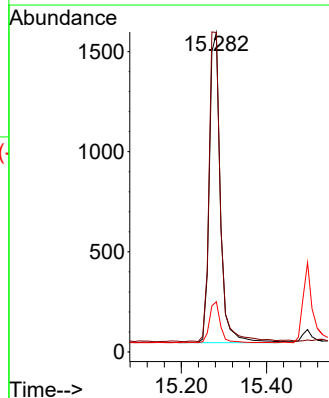
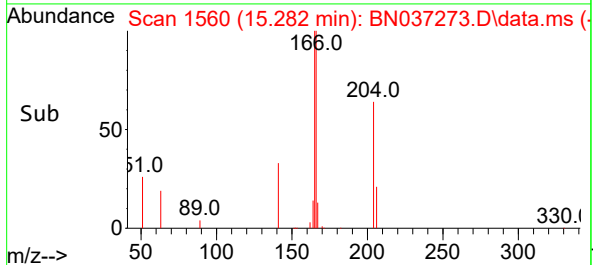
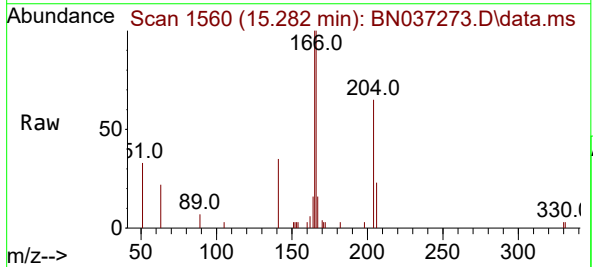
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

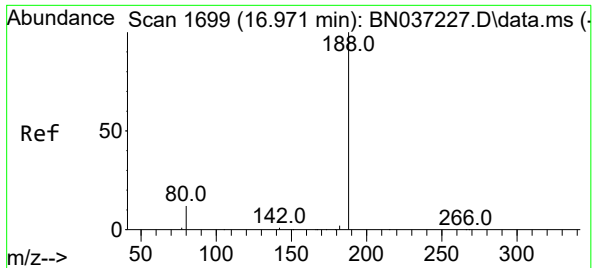
Tgt Ion:154 Resp: 2169
Ion Ratio Lower Upper
154 100
153 118.9 94.6 141.8
152 64.5 49.6 74.4



#18
Fluorene
Concen: 0.388 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:166 Resp: 2772
Ion Ratio Lower Upper
166 100
165 102.9 79.8 119.6
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

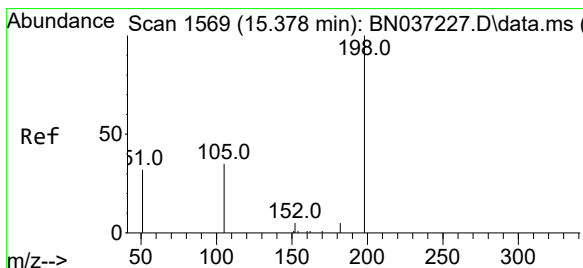
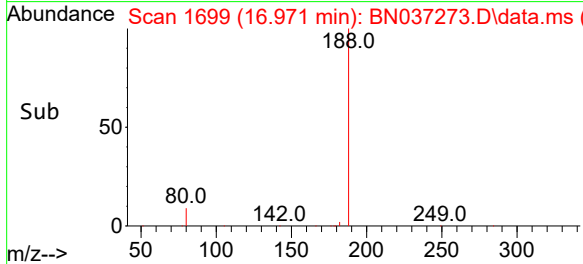
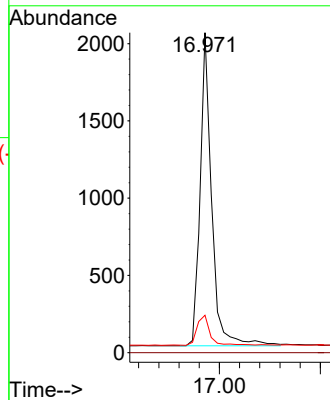
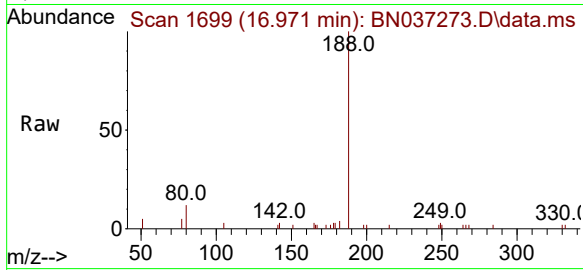
Tgt Ion:188 Resp: 3220

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.430 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

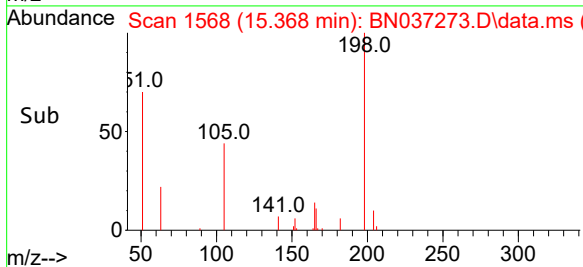
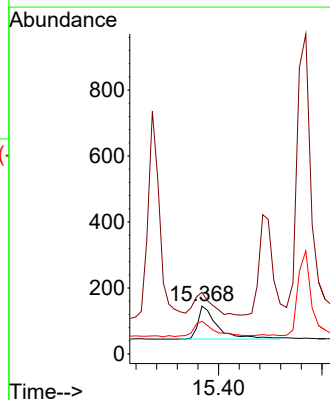
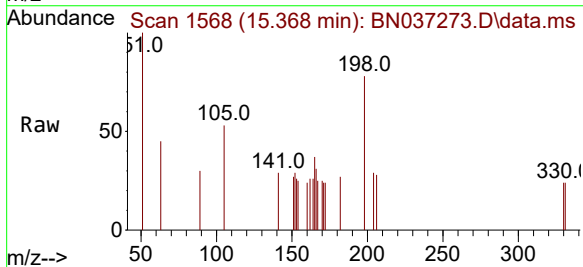
Tgt Ion:198 Resp: 265

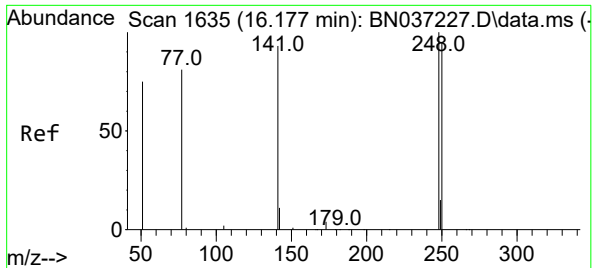
Ion Ratio Lower Upper

198 100

51 129.0 111.2 166.8

105 68.3 54.0 81.0

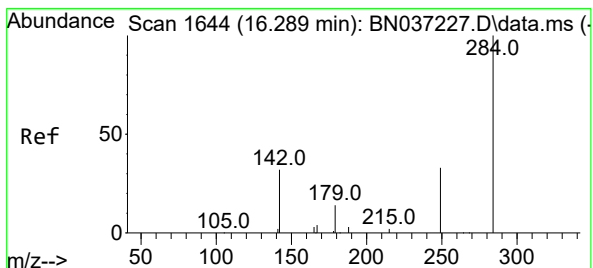
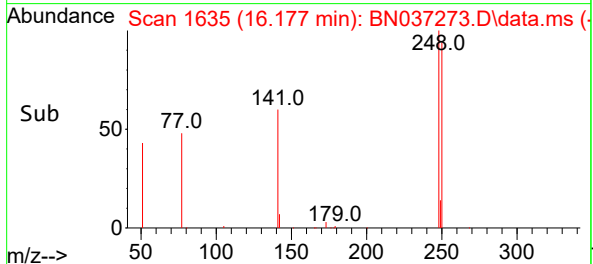
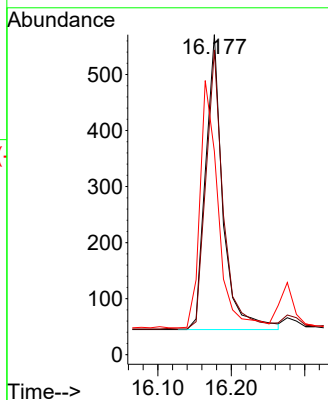
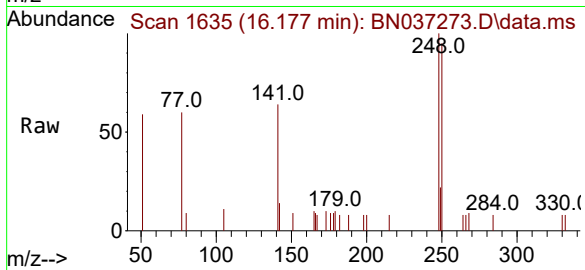




#21
4-Bromophenyl-phenylether
Concen: 0.409 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

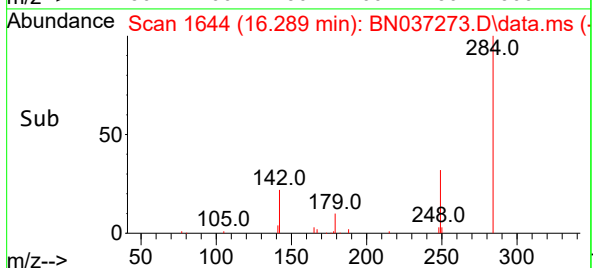
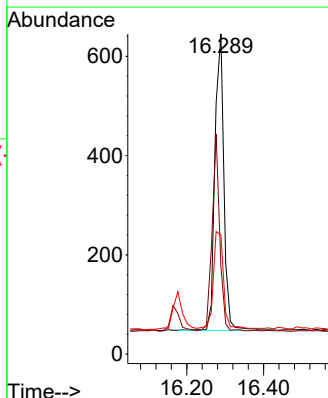
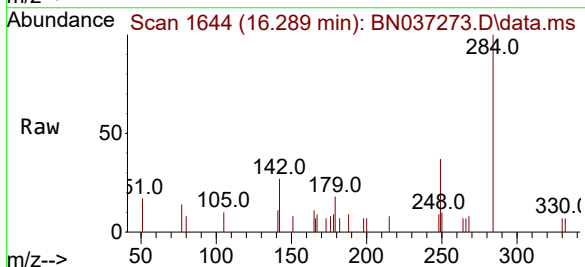
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

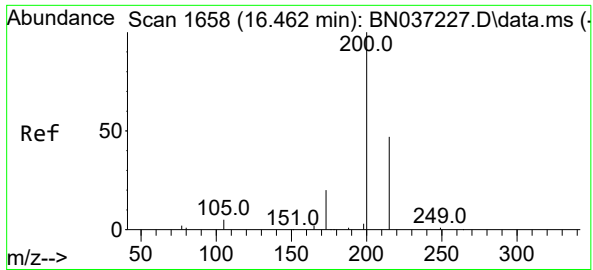
Tgt Ion:248 Resp: 859
Ion Ratio Lower Upper
248 100
250 95.3 76.8 115.2
141 63.6 75.6 113.4#



#22
Hexachlorobenzene
Concen: 0.395 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:284 Resp: 961
Ion Ratio Lower Upper
284 100
142 56.6 43.8 65.6
249 36.3 28.4 42.6





#23

Atrazine

Concen: 0.384 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.012 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

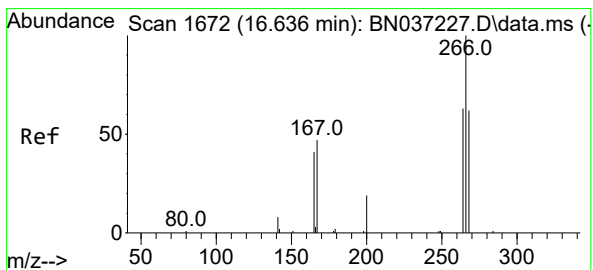
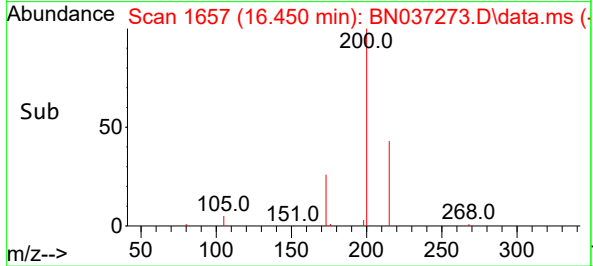
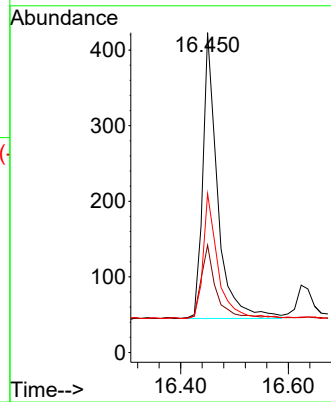
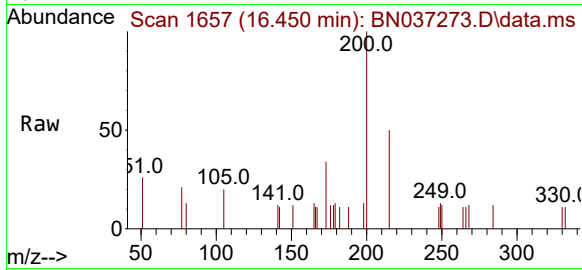
Tgt Ion:200 Resp: 719

Ion Ratio Lower Upper

200 100

173 33.6 25.1 37.7

215 49.6 43.7 65.5



#24

Pentachlorophenol

Concen: 0.382 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

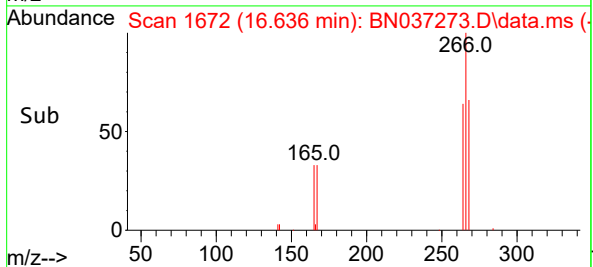
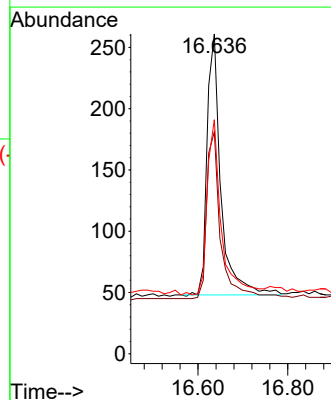
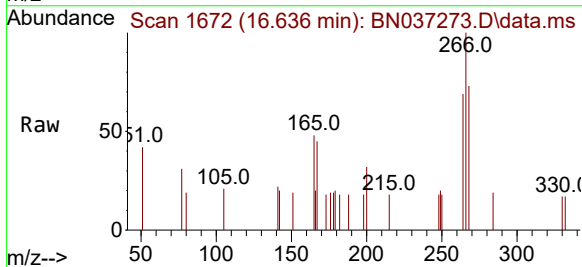
Tgt Ion:266 Resp: 455

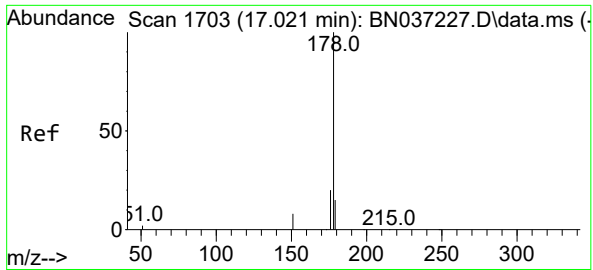
Ion Ratio Lower Upper

266 100

264 65.1 49.2 73.8

268 68.4 53.4 80.2

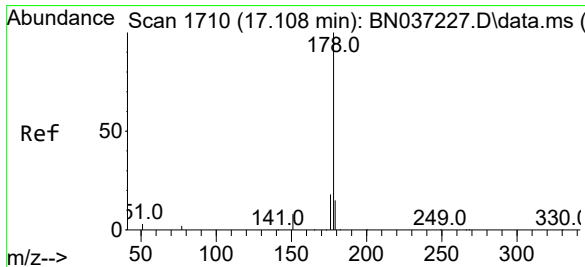
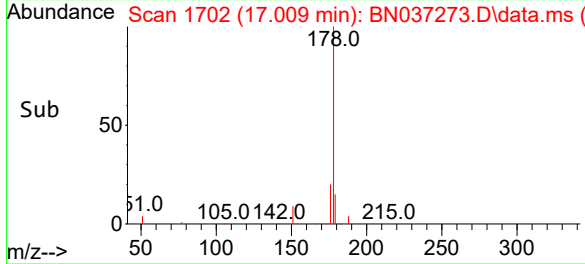
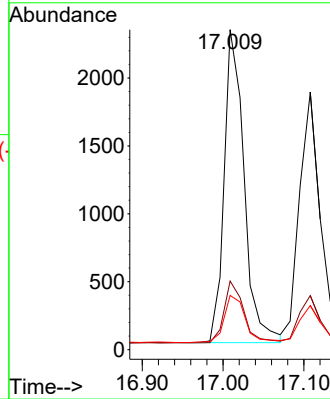
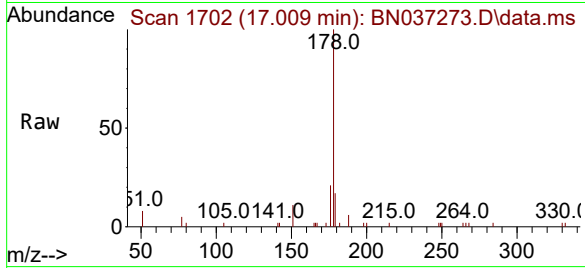




#25
Phenanthrene
Concen: 0.388 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.012 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

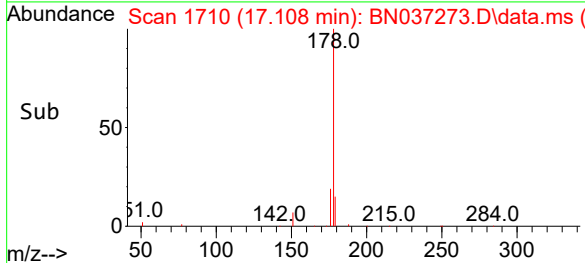
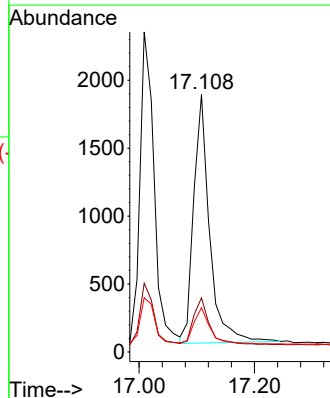
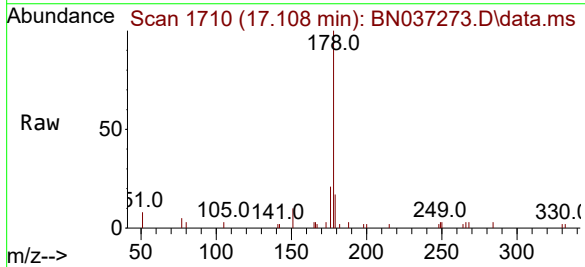
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

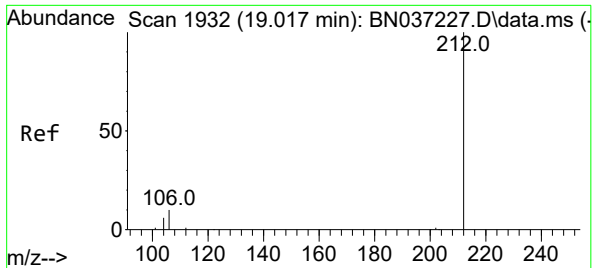
Tgt Ion:178 Resp: 3964
Ion Ratio Lower Upper
178 100
176 19.4 16.3 24.5
179 16.1 12.6 18.8



#26
Anthracene
Concen: 0.377 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:178 Resp: 3522
Ion Ratio Lower Upper
178 100
176 19.4 15.1 22.7
179 15.6 12.4 18.6

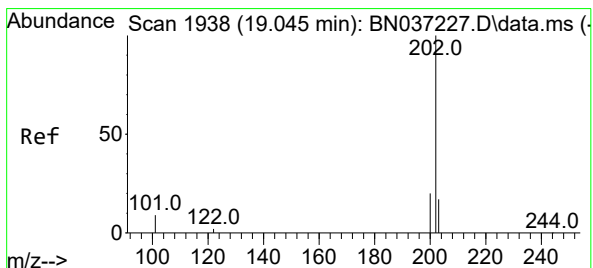
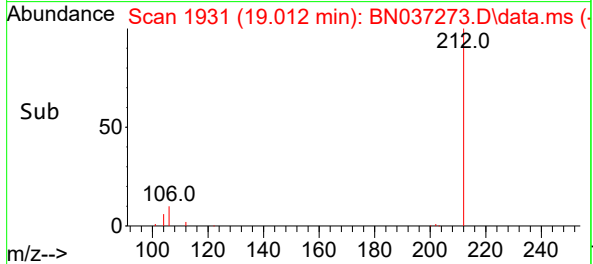
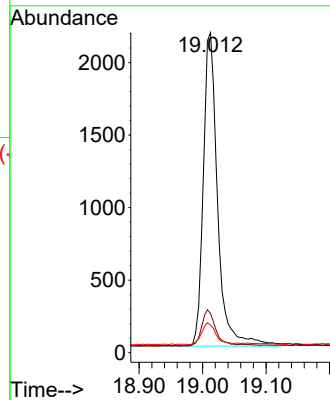
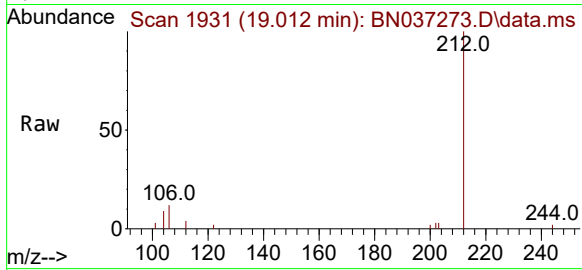




#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.012 min Scan# 1932
Delta R.T. -0.004 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

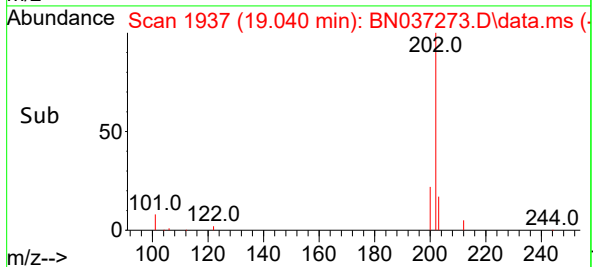
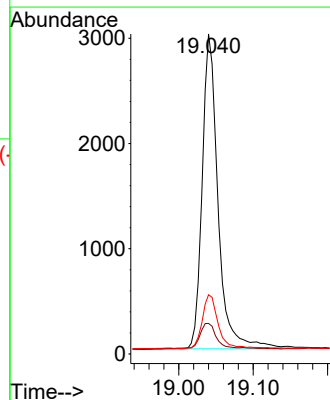
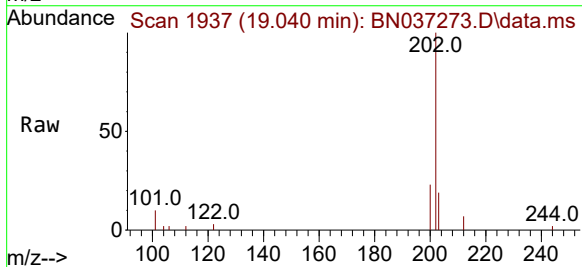
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

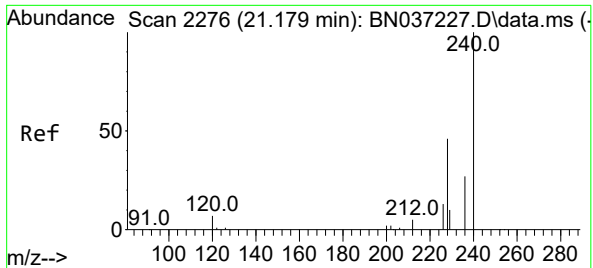
Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.9	9.3	13.9
104	6.9	5.7	8.5



#28
Fluoranthene
Concen: 0.370 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.004 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.1	10.7
203	17.2	13.0	19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

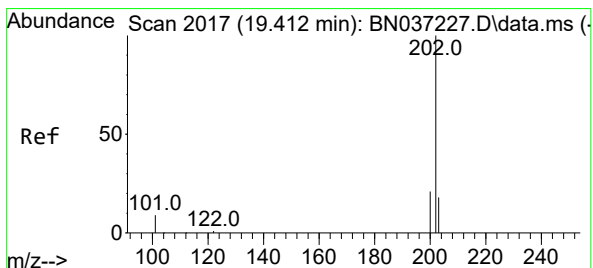
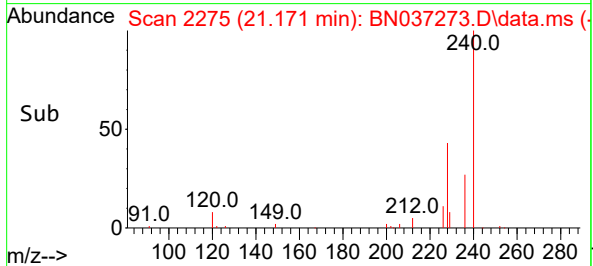
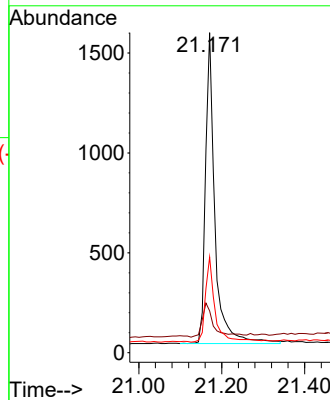
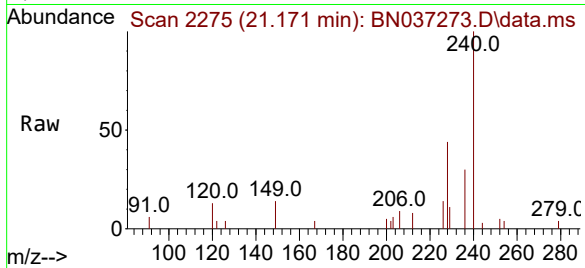
Tgt Ion:240 Resp: 2454

Ion Ratio Lower Upper

240 100

120 13.0 11.3 16.9

236 29.9 24.4 36.6



#30

Pyrene

Concen: 0.393 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

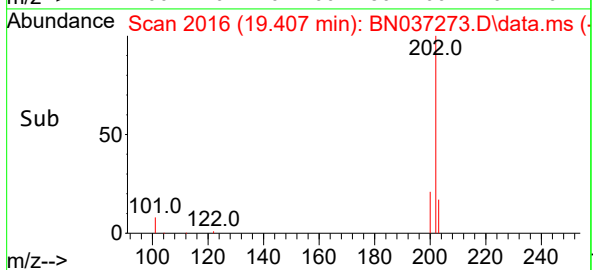
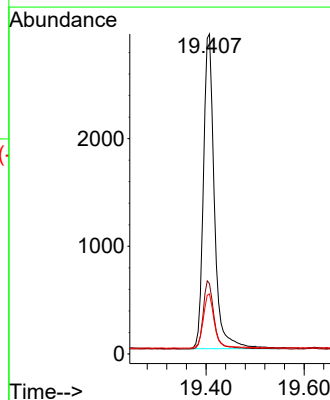
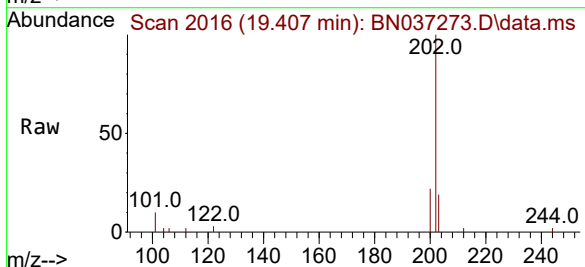
Tgt Ion:202 Resp: 4538

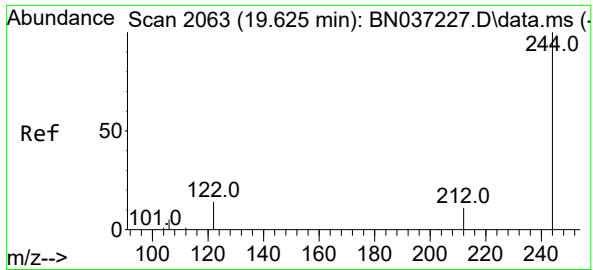
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

203 17.9 14.3 21.5

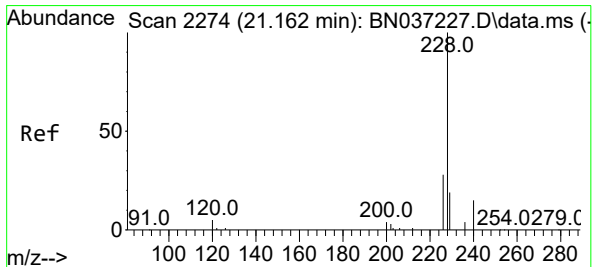
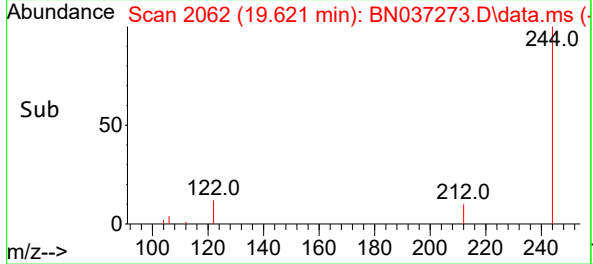
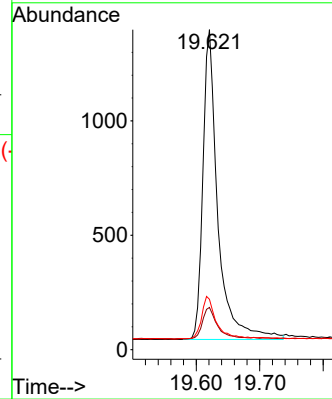
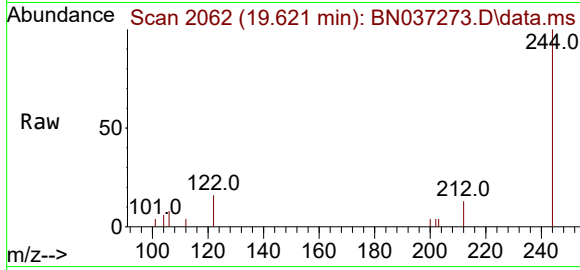




#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

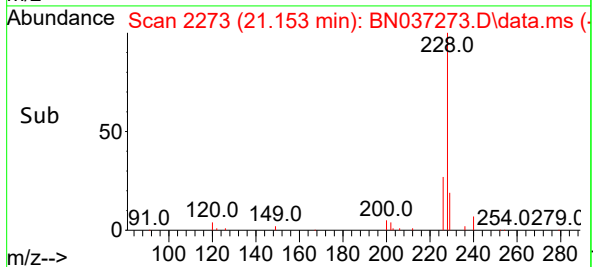
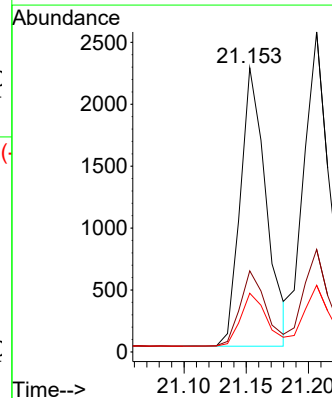
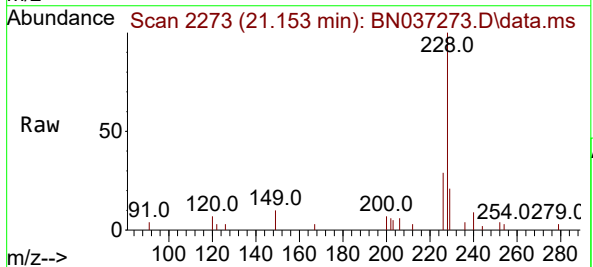
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

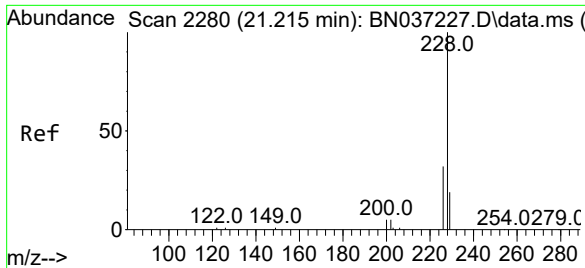
Tgt Ion:244 Resp: 2208
Ion Ratio Lower Upper
244 100
212 13.2 12.2 18.2
122 15.7 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.393 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:228 Resp: 3255
Ion Ratio Lower Upper
228 100
226 28.6 23.8 35.8
229 20.7 17.0 25.4





#33

Chrysene

Concen: 0.403 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

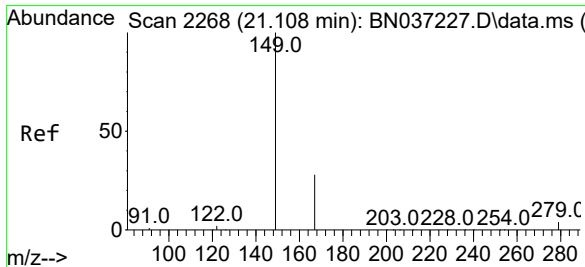
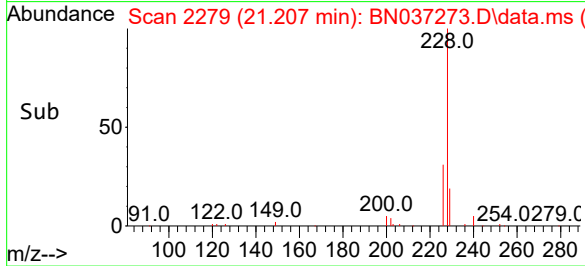
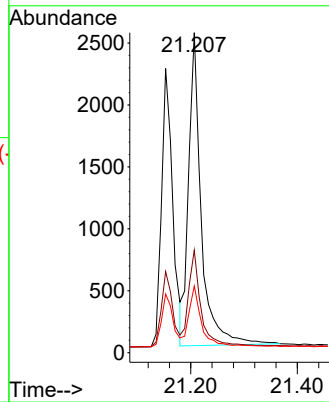
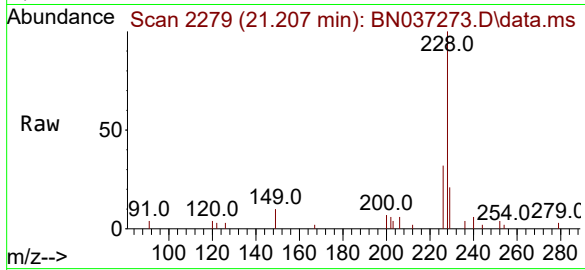
Tgt Ion:228 Resp: 4162

Ion Ratio Lower Upper

228 100

226 32.0 25.8 38.6

229 20.8 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.376 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

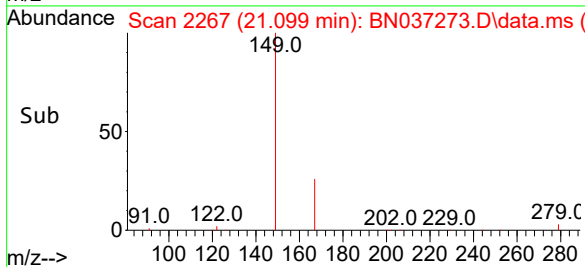
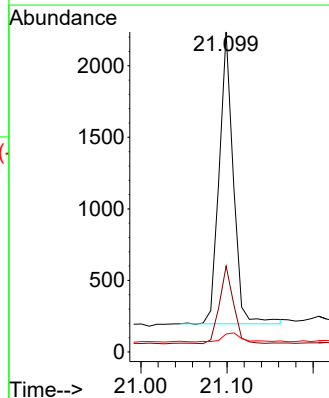
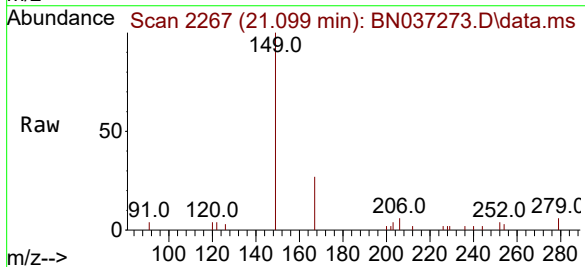
Tgt Ion:149 Resp: 2318

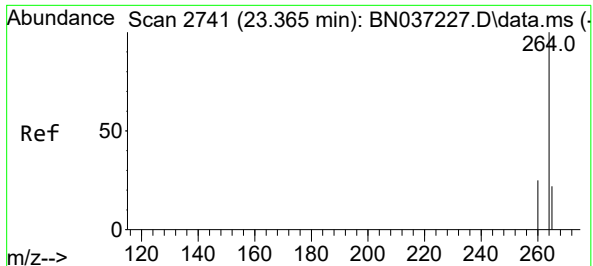
Ion Ratio Lower Upper

149 100

167 26.0 21.3 31.9

279 4.1 3.3 4.9

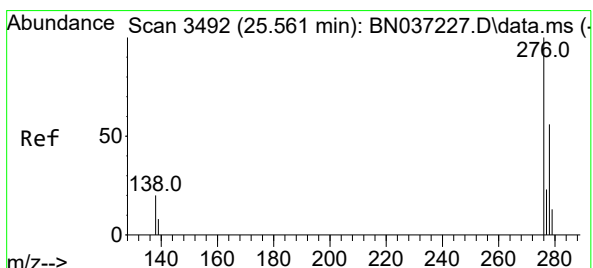
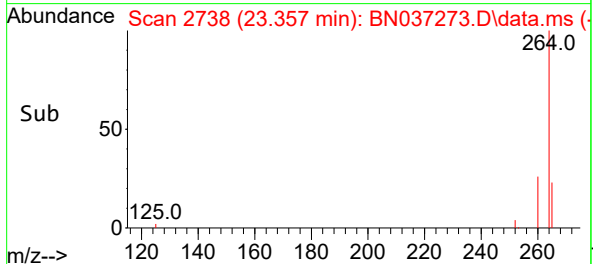
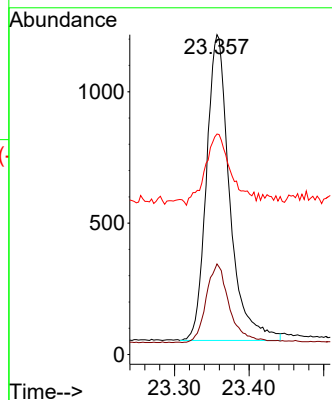
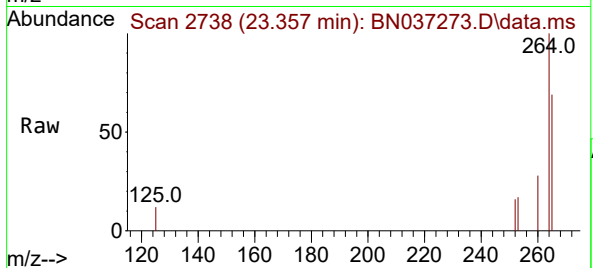




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

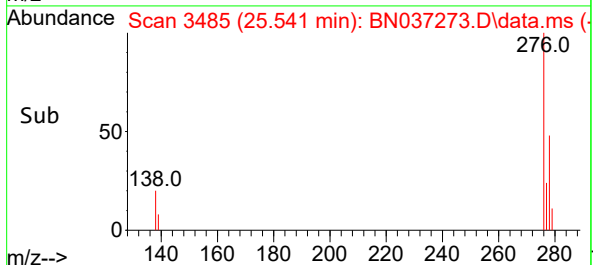
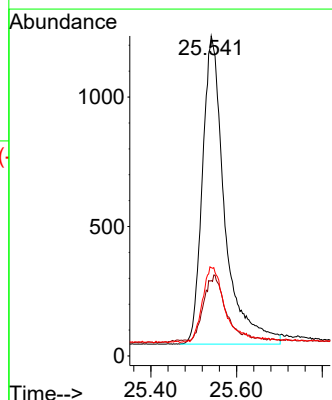
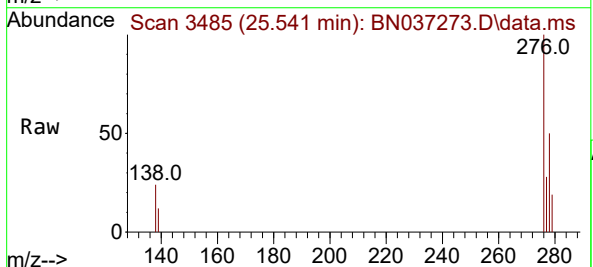
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

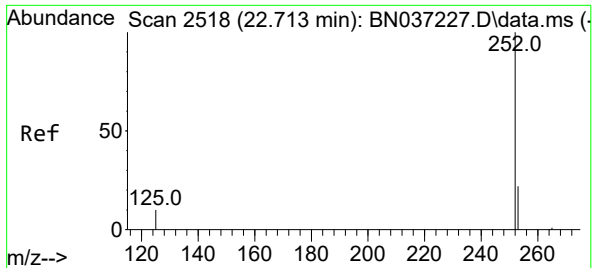
Tgt Ion:264 Resp: 2514
Ion Ratio Lower Upper
264 100
260 28.3 22.8 34.2
265 68.9 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.423 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.020 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:276 Resp: 4291
Ion Ratio Lower Upper
276 100
138 20.1 16.8 25.2
277 24.5 19.5 29.3

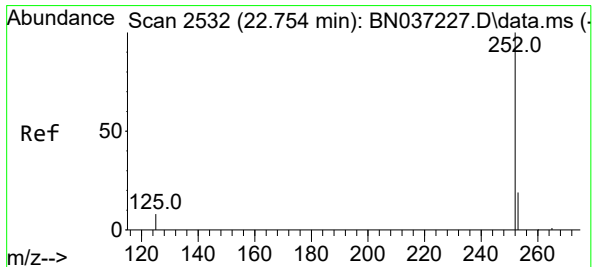
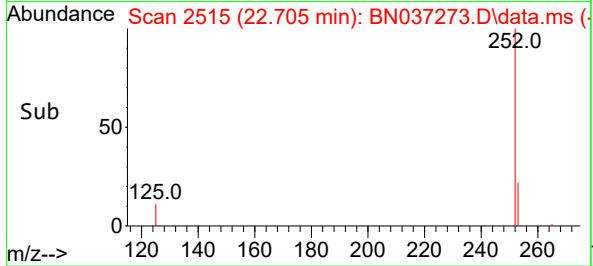
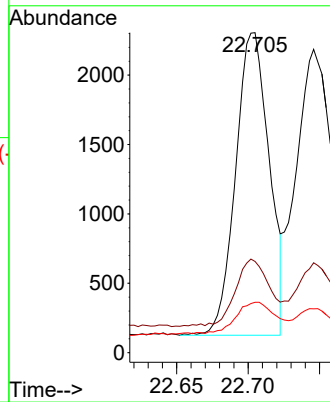
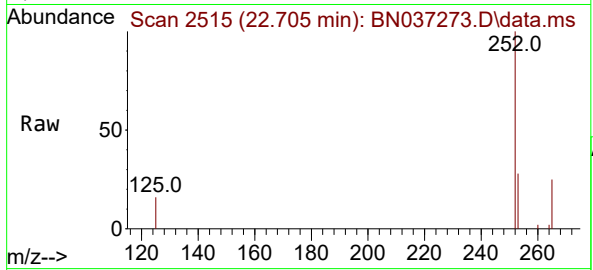




#37
Benzo(b)fluoranthene
Concen: 0.387 ng
RT: 22.705 min Scan# 2515
Delta R.T. -0.009 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

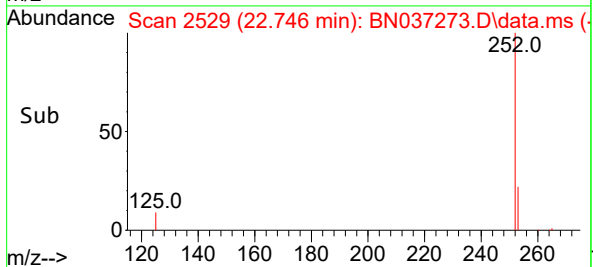
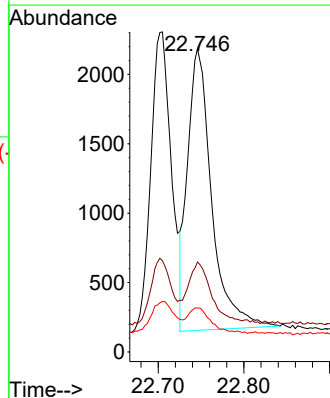
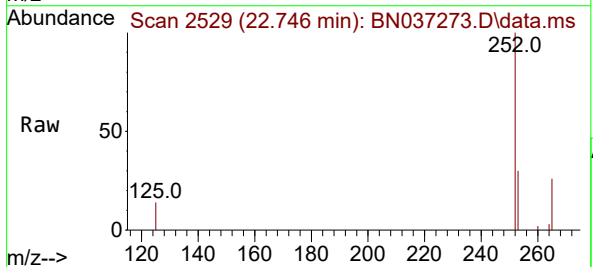
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

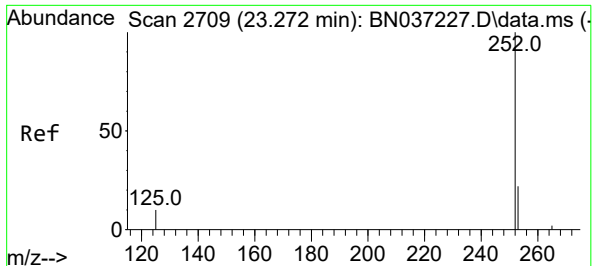
Tgt Ion:252 Resp: 3555
Ion Ratio Lower Upper
252 100
253 28.5 24.9 37.3
125 15.7 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.375 ng
RT: 22.746 min Scan# 2529
Delta R.T. -0.009 min
Lab File: BN037273.D
Acq: 14 Jun 2025 22:31

Tgt Ion:252 Resp: 3981
Ion Ratio Lower Upper
252 100
253 29.6 24.6 37.0
125 14.5 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.397 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

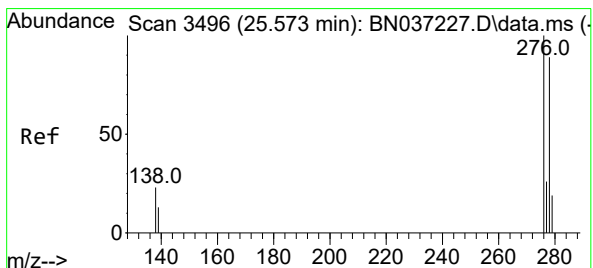
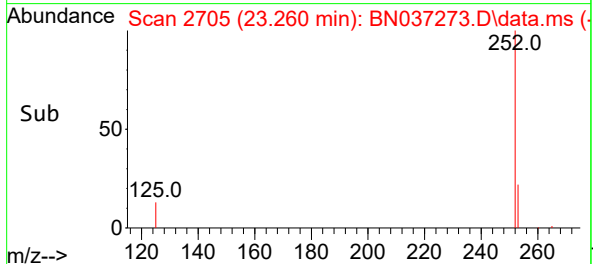
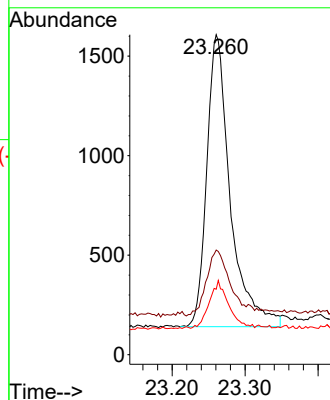
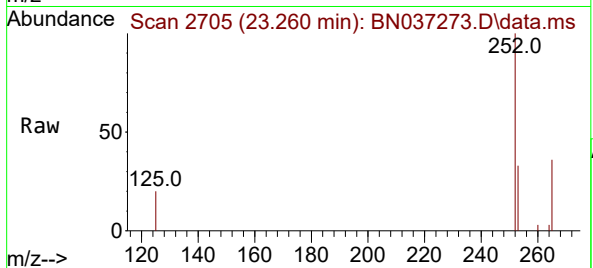
Tgt Ion:252 Resp: 3280

Ion Ratio Lower Upper

252 100

253 32.7 29.4 44.2

125 20.5 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.412 ng

RT: 25.558 min Scan# 3491

Delta R.T. -0.014 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

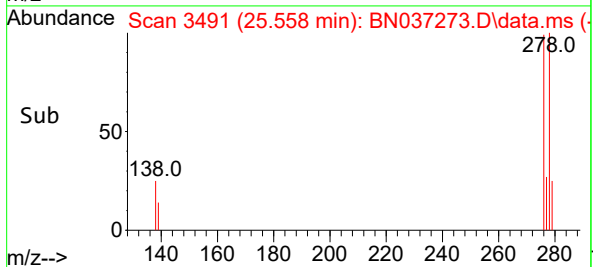
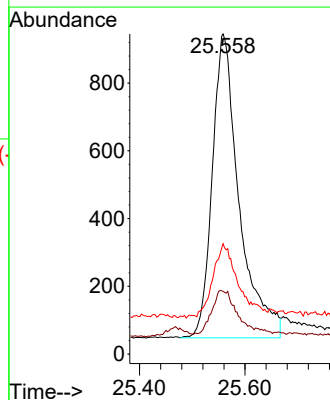
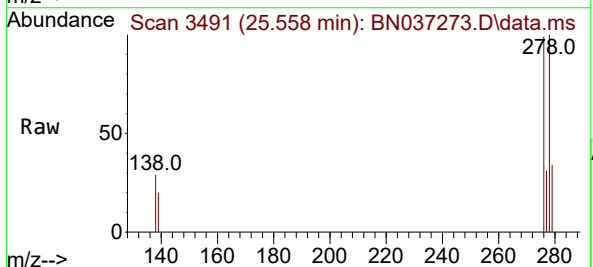
Tgt Ion:278 Resp: 3174

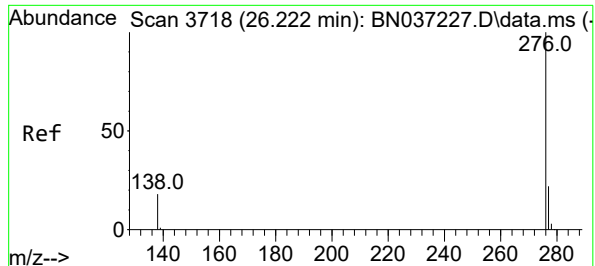
Ion Ratio Lower Upper

278 100

139 19.6 17.8 26.6

279 34.5 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.406 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037273.D

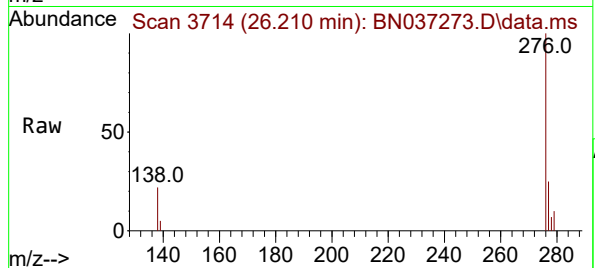
Acq: 14 Jun 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



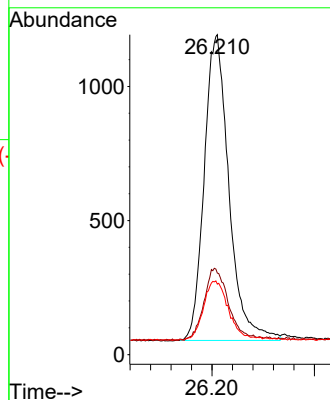
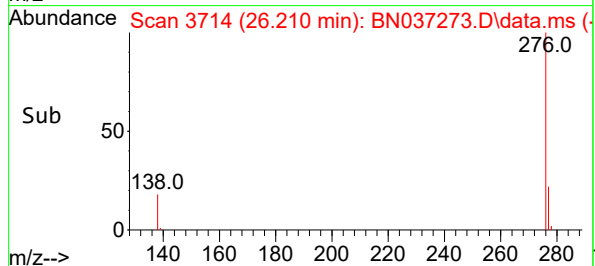
Tgt Ion:276 Resp: 3816

Ion Ratio Lower Upper

276 100

277 25.5 22.0 33.0

138 22.0 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037273.D
 Acq On : 14 Jun 2025 22:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 02:45:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	108	0.00
2	1,4-Dioxane	0.549	0.499	9.1	103	0.00
3	n-Nitrosodimethylamine	1.250	1.342	-7.4	113	0.00
4 S	2-Fluorophenol	0.982	0.959	2.3	110	0.00
5 S	Phenol-d6	1.035	1.017	1.7	114	0.00
6	bis(2-Chloroethyl)ether	0.927	1.011	-9.1	125	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	-0.01
8 S	Nitrobenzene-d5	0.395	0.415	-5.1	115	0.00
9	Naphthalene	1.158	1.151	0.6	108	0.00
10	Hexachlorobutadiene	0.282	0.288	-2.1	101	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.562	-4.7	107	0.00
12	2-Methylnaphthalene	0.704	0.691	1.8	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.166	0.170	-2.4	100	-0.01
15 S	2-Fluorobiphenyl	1.681	1.763	-4.9	105	0.00
16	Acenaphthylene	1.960	1.893	3.4	102	-0.01
17	Acenaphthene	1.265	1.233	2.5	101	0.00
18	Fluorene	1.625	1.576	3.0	100	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	101	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.082	10.9	126	-0.01
21	4-Bromophenyl-phenylether	0.261	0.267	-2.3	110	0.00
22	Hexachlorobenzene	0.302	0.298	1.3	97	0.00
23	Atrazine	0.232	0.223	3.9	101	-0.01
24	Pentachlorophenol	0.148	0.141	4.7	115	0.00
25	Phenanthrene	1.269	1.231	3.0	105	-0.01
26	Anthracene	1.161	1.094	5.8	102	0.00
27 SURR	Fluoranthene-d10	1.046	1.055	-0.9	101	0.00
28	Fluoranthene	1.485	1.374	7.5	98	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	107	0.00
30	Pyrene	1.881	1.849	1.7	101	0.00
31 S	Terphenyl-d14	0.904	0.900	0.4	102	0.00
32	Benzo(a)anthracene	1.351	1.326	1.9	116	0.00
33	Chrysene	1.683	1.696	-0.8	108	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.945	6.1	99	0.00
35 I	Perylene-d12	1.000	1.000	0.0	117	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.707	-5.8	132	-0.02
37	Benzo(b)fluoranthene	1.463	1.414	3.3	120	0.00
38	Benzo(k)fluoranthene	1.689	1.584	6.2	114	0.00
39 C	Benzo(a)pyrene	1.316	1.305	0.8	124	-0.01
40	Dibenzo(a,h)anthracene	1.227	1.263	-2.9	141	-0.01
41	Benzo(g,h,i)perylene	1.496	1.518	-1.5	123	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037273.D
Acq On : 14 Jun 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:45:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	108	0.00
2	1,4-Dioxane	0.400	0.364	9.0	103	0.00
3	n-Nitrosodimethylamine	0.400	0.429	-7.2	113	0.00
4 S	2-Fluorophenol	0.400	0.390	2.5	110	0.00
5 S	Phenol-d6	0.400	0.393	1.8	114	0.00
6	bis(2-Chloroethyl)ether	0.400	0.436	-9.0	125	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	-0.01
8 S	Nitrobenzene-d5	0.400	0.420	-5.0	115	0.00
9	Naphthalene	0.400	0.397	0.8	108	0.00
10	Hexachlorobutadiene	0.400	0.409	-2.2	101	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.419	-4.7	107	0.00
12	2-Methylnaphthalene	0.400	0.392	2.0	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.400	0.409	-2.2	100	-0.01
15 S	2-Fluorobiphenyl	0.400	0.420	-5.0	105	0.00
16	Acenaphthylene	0.400	0.386	3.5	102	-0.01
17	Acenaphthene	0.400	0.390	2.5	101	0.00
18	Fluorene	0.400	0.388	3.0	100	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	101	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.430	-7.5	126	-0.01
21	4-Bromophenyl-phenylether	0.400	0.409	-2.2	110	0.00
22	Hexachlorobenzene	0.400	0.395	1.3	97	0.00
23	Atrazine	0.400	0.384	4.0	101	-0.01
24	Pentachlorophenol	0.400	0.382	4.5	115	0.00
25	Phenanthrene	0.400	0.388	3.0	105	-0.01
26	Anthracene	0.400	0.377	5.8	102	0.00
27 SURR	Fluoranthene-d10	0.400	0.403	-0.8	101	0.00
28	Fluoranthene	0.400	0.370	7.5	98	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	107	0.00
30	Pyrene	0.400	0.393	1.8	101	0.00
31 S	Terphenyl-d14	0.400	0.398	0.5	102	0.00
32	Benzo(a)anthracene	0.400	0.393	1.8	116	0.00
33	Chrysene	0.400	0.403	-0.8	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.376	6.0	99	0.00
35 I	Perylene-d12	0.400	0.400	0.0	117	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.423	-5.7	132	-0.02
37	Benzo(b)fluoranthene	0.400	0.387	3.3	120	0.00
38	Benzo(k)fluoranthene	0.400	0.375	6.3	114	0.00
39 C	Benzo(a)pyrene	0.400	0.397	0.8	124	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.412	-3.0	141	-0.01
41	Benzo(g,h,i)perylene	0.400	0.406	-1.5	123	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2316 SAS No.: Q2316 SDG No.: Q2316

Instrument ID: BNA_N Calibration Date/Time: 06/15/2025 03:54

Lab File ID: BN037282.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.562		4.7	50.0
Fluoranthene-d10	1.047	1.054		0.8	50.0
2-Fluorophenol	0.982	0.915		-6.8	50.0
Phenol-d6	1.035	1.040		0.5	50.0
Nitrobenzene-d5	0.395	0.420		6.3	50.0
2-Fluorobiphenyl	1.681	1.736		3.3	50.0
2,4,6-Tribromophenol	0.166	0.171		3.0	50.0
Terphenyl-d14	0.904	0.949		5.0	50.0
1,4-Dioxane	0.549	0.485		-11.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037282.D
 Acq On : 15 Jun 2025 03:54
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 16 02:47:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

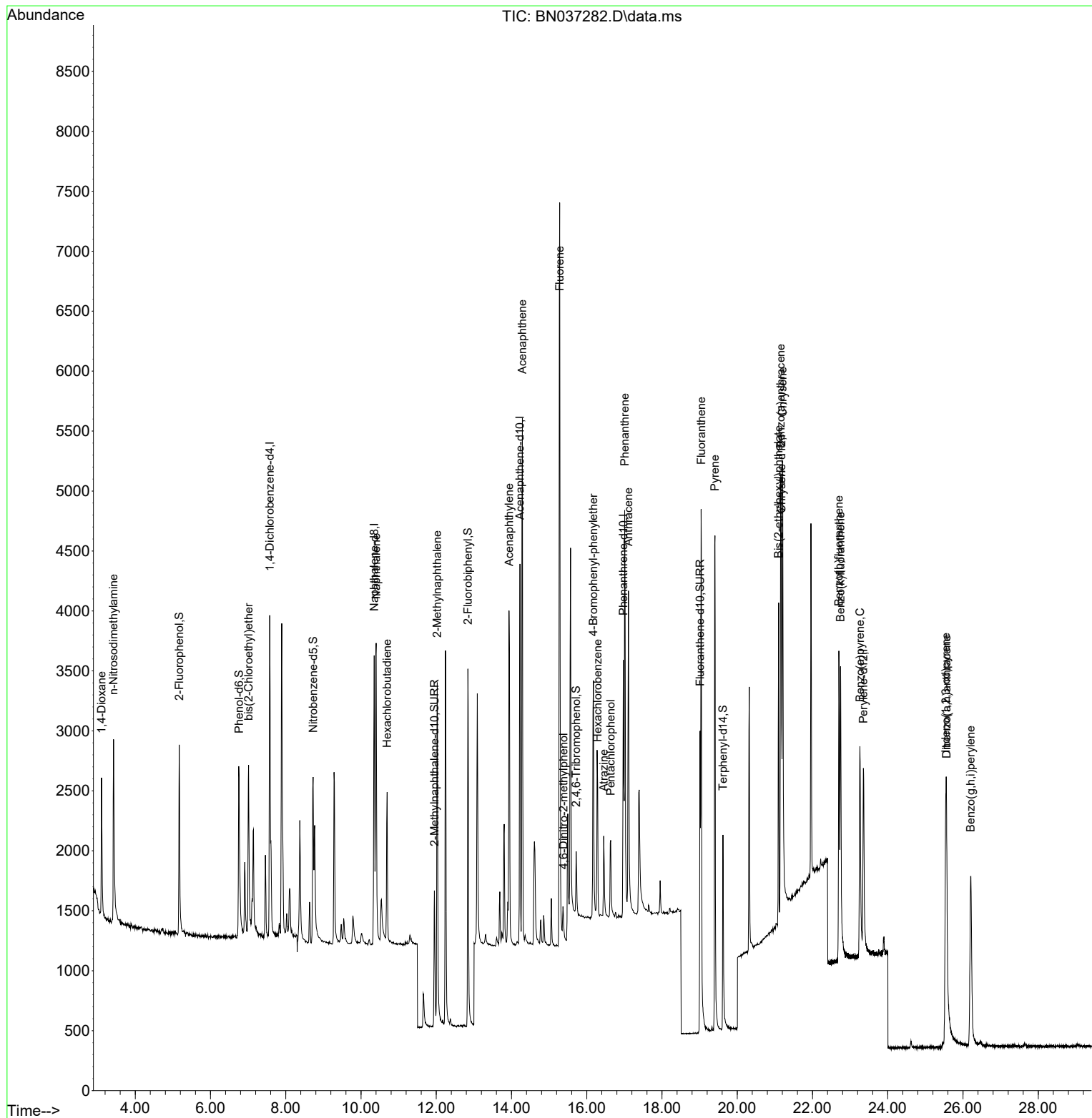
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1297	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3173	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1710	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3109	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	2311	0.400	ng	0.00
35) Perylene-d12	23.351	264	2261	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1187	0.373	ng	0.00
5) Phenol-d6	6.759	99	1349	0.402	ng	0.00
8) Nitrobenzene-d5	8.728	82	1334	0.425	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1783	0.419	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	293	0.413	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	2968	0.413	ng	0.00
27) Fluoranthene-d10	19.012	212	3277	0.403	ng	0.00
31) Terphenyl-d14	19.621	244	2194	0.420	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	629	0.353	ng	96
3) n-Nitrosodimethylamine	3.422	42	1632	0.403	ng	100
6) bis(2-Chloroethyl)ether	7.012	93	1224	0.407	ng	93
9) Naphthalene	10.404	128	3674	0.400	ng	100
10) Hexachlorobutadiene	10.693	225	930	0.416	ng	# 95
12) 2-Methylnaphthalene	12.026	142	2248	0.402	ng	99
16) Acenaphthylene	13.935	152	3158	0.377	ng	98
17) Acenaphthene	14.288	154	2107	0.390	ng	99
18) Fluorene	15.282	166	2693	0.388	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	282	0.462	ng	# 70
21) 4-Bromophenyl-phenylether	16.177	248	834	0.412	ng	# 87
22) Hexachlorobenzene	16.289	284	930	0.396	ng	97
23) Atrazine	16.450	200	711	0.393	ng	92
24) Pentachlorophenol	16.636	266	435	0.378	ng	98
25) Phenanthrene	17.009	178	3779	0.383	ng	99
26) Anthracene	17.108	178	3458	0.383	ng	99
28) Fluoranthene	19.040	202	4402	0.381	ng	99
30) Pyrene	19.407	202	4393	0.404	ng	100
32) Benzo(a)anthracene	21.153	228	3022	0.387	ng	99
33) Chrysene	21.206	228	3925	0.404	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2319	0.399	ng	99
36) Indeno(1,2,3-cd)pyrene	25.541	276	3478	0.381	ng	99
37) Benzo(b)fluoranthene	22.702	252	3315	0.401	ng	98
38) Benzo(k)fluoranthene	22.746	252	3572	0.374	ng	96
39) Benzo(a)pyrene	23.260	252	2896	0.389	ng	93
40) Dibenzo(a,h)anthracene	25.561	278	2756	0.397	ng	95
41) Benzo(g,h,i)perylene	26.204	276	3285	0.389	ng	98

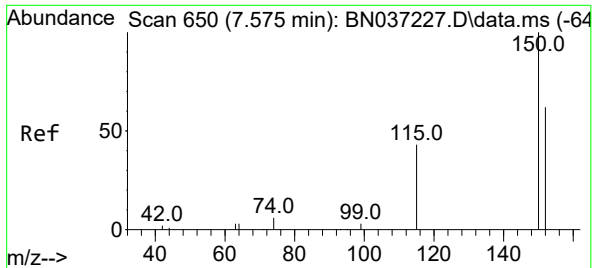
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037282.D
Acq On : 15 Jun 2025 03:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 16 02:47:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

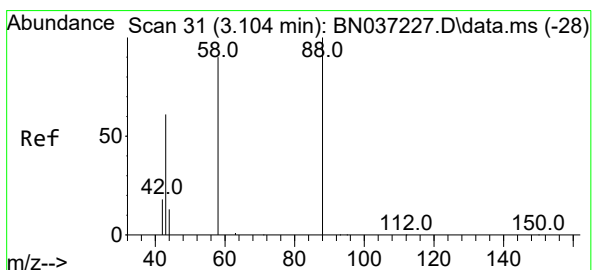
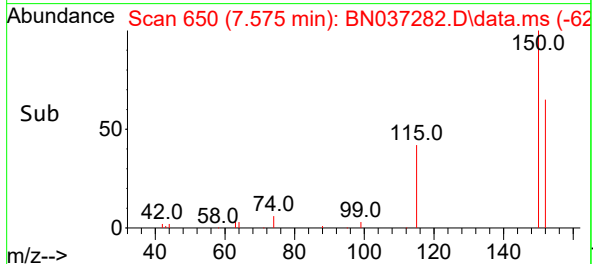
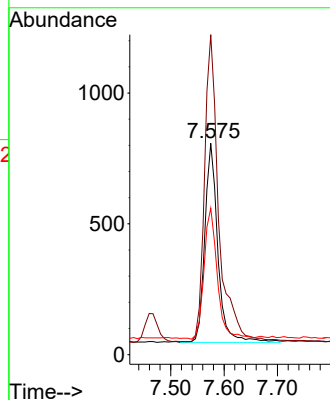
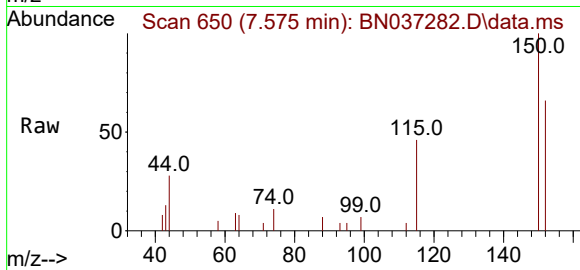




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

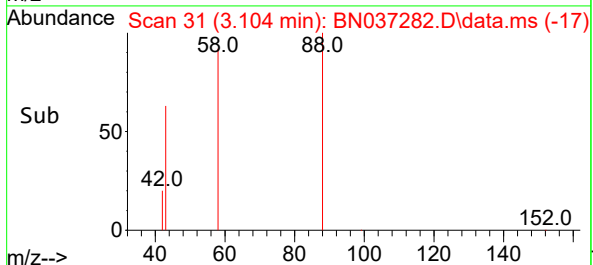
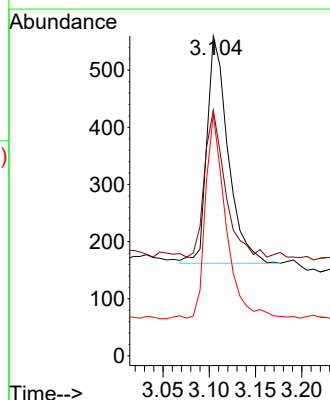
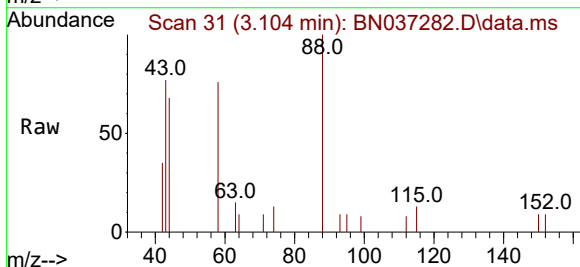
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BNA_N
ClientSampleId :
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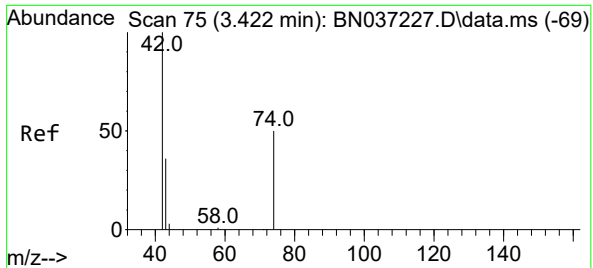
Tgt Ion:152 Resp: 1297
Ion Ratio Lower Upper
152 100
150 151.4 125.2 187.8
115 69.3 58.4 87.6



#2
1,4-Dioxane
Concen: 0.353 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion: 88 Resp: 629
Ion Ratio Lower Upper
88 100
43 63.0 52.6 79.0
58 87.4 73.5 110.3

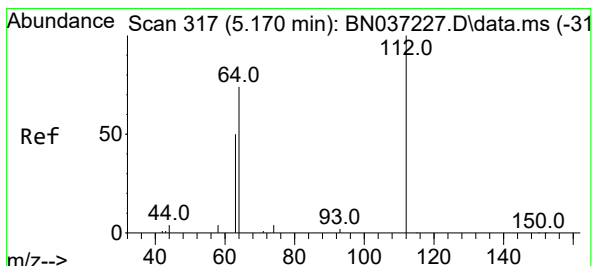
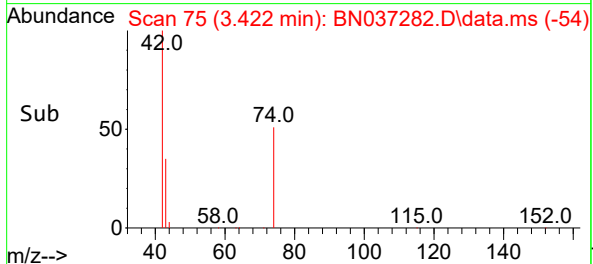
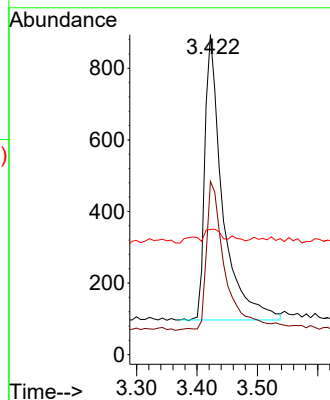
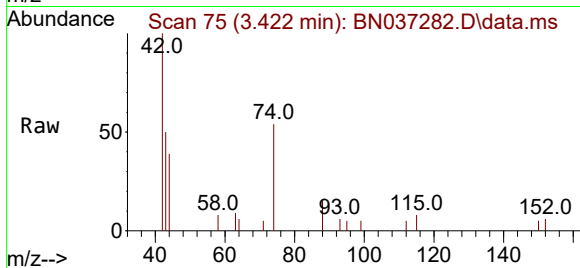




#3
n-Nitrosodimethylamine
Concen: 0.403 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

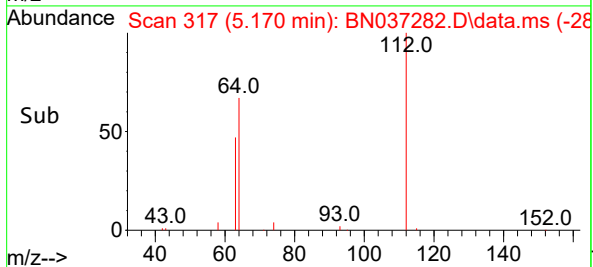
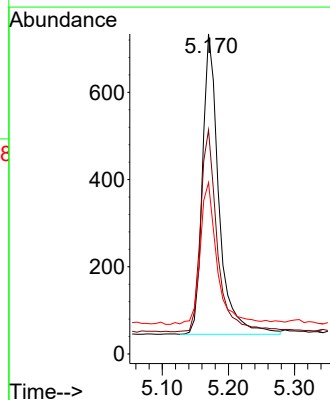
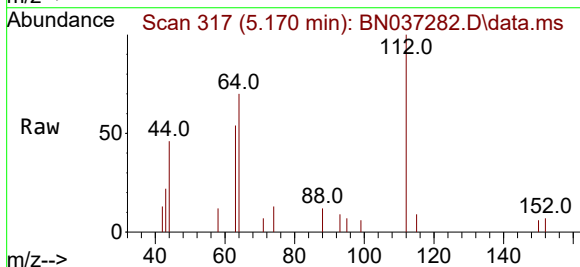
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

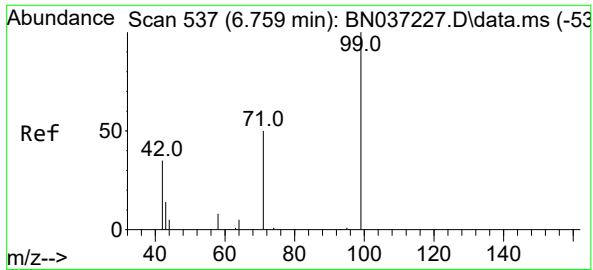
Tgt Ion: 42 Resp: 1632
Ion Ratio Lower Upper
42 100
74 55.9 44.6 66.8
44 3.9 3.5 5.3



#4
2-Fluorophenol
Concen: 0.373 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion: 112 Resp: 1187
Ion Ratio Lower Upper
112 100
64 69.8 57.2 85.8
63 48.4 39.8 59.6

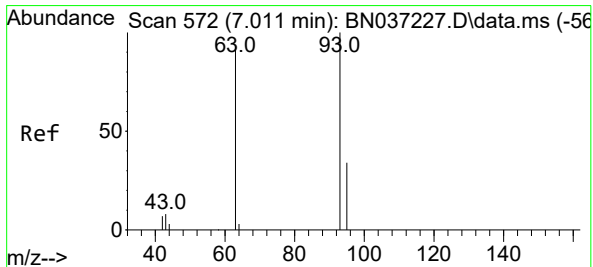
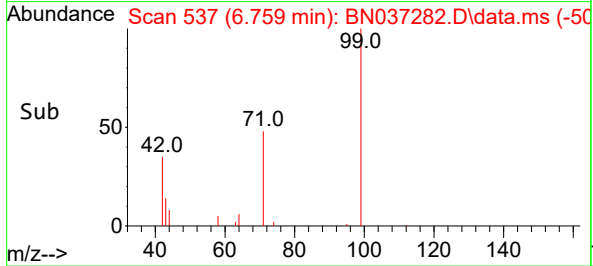
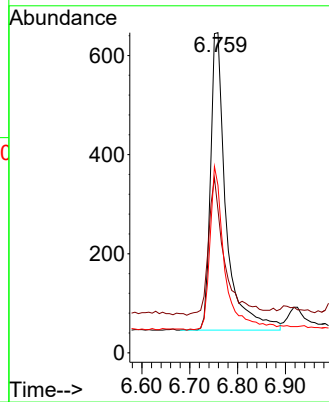
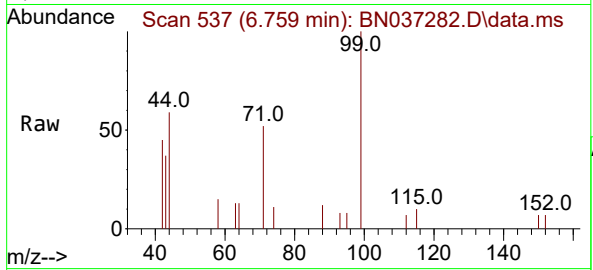




#5
Phenol-d6
Concen: 0.402 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

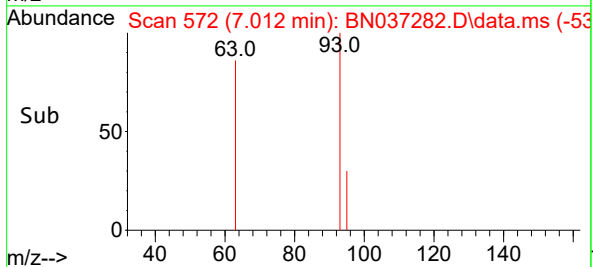
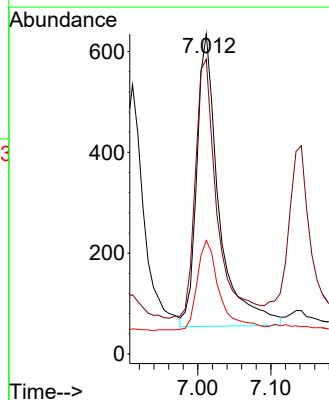
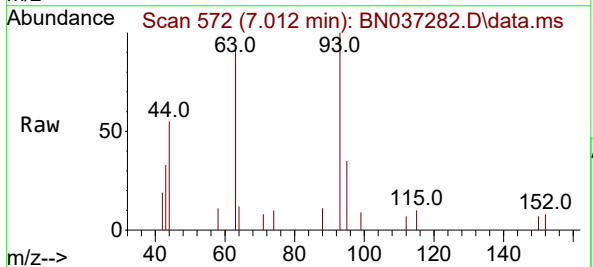
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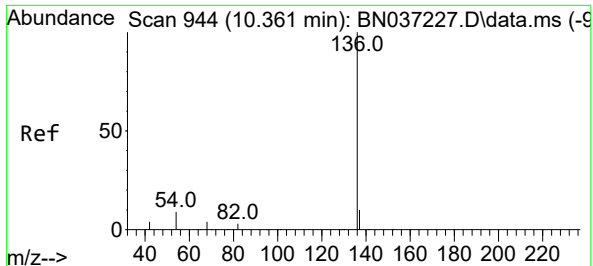
Tgt Ion: 99 Resp: 1349
Ion Ratio Lower Upper
99 100
42 47.1 36.2 54.4
71 54.2 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion: 93 Resp: 1224
Ion Ratio Lower Upper
93 100
63 86.8 75.2 112.8
95 32.1 28.3 42.5

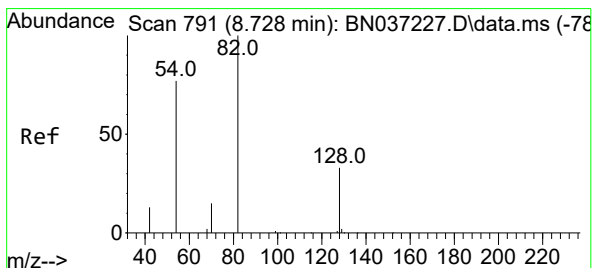
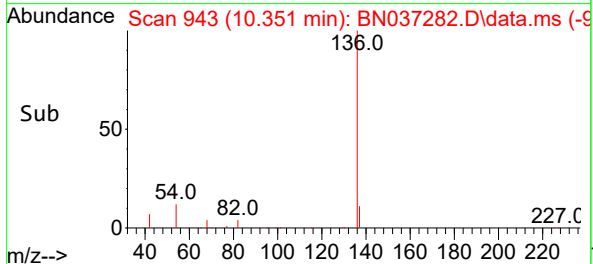
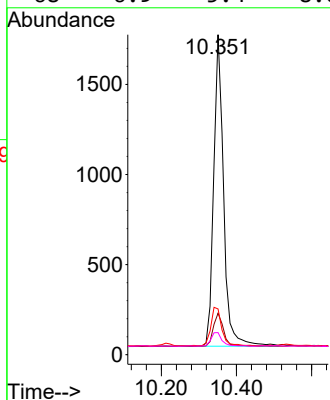
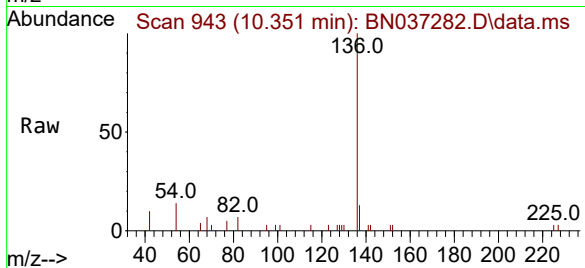




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

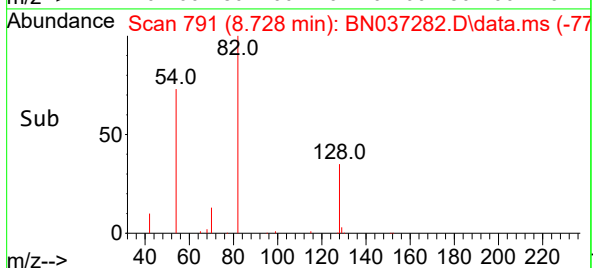
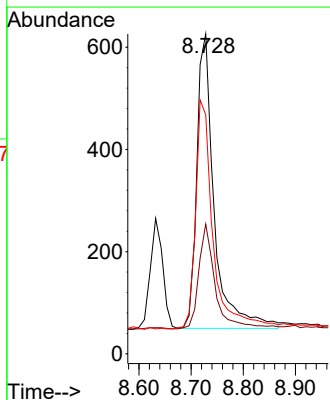
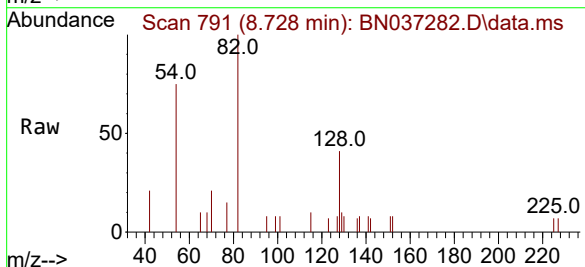
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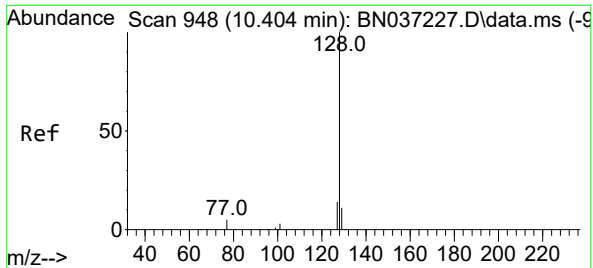
Tgt Ion:	136	Resp:	3173
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.6	15.8
54	14.3	9.2	13.8#
68	6.9	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.425 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:	82	Resp:	1334
Ion	Ratio	Lower	Upper
82	100		
128	40.6	31.2	46.8
54	74.8	63.3	94.9

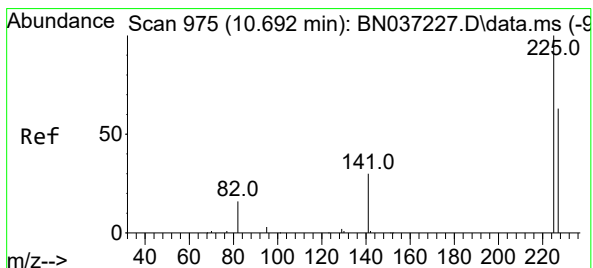
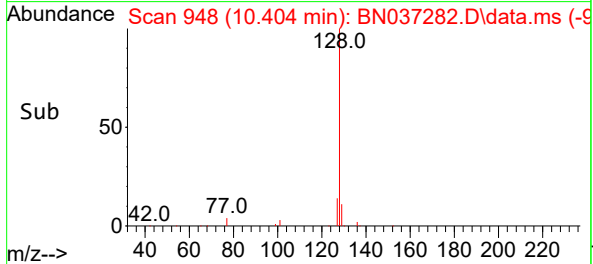
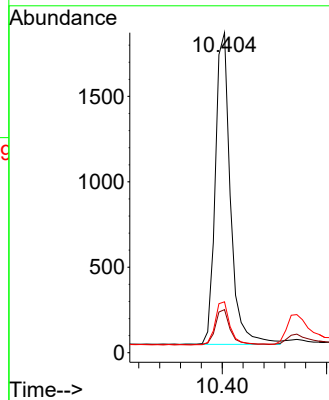
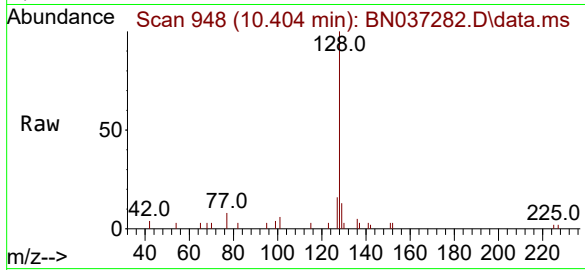




#9
Naphthalene
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

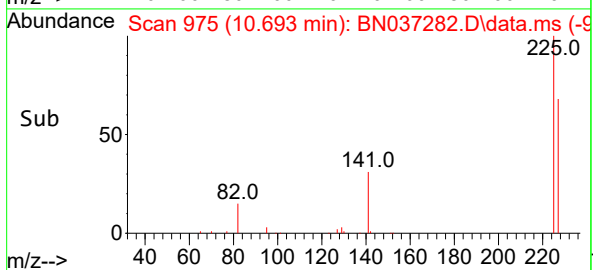
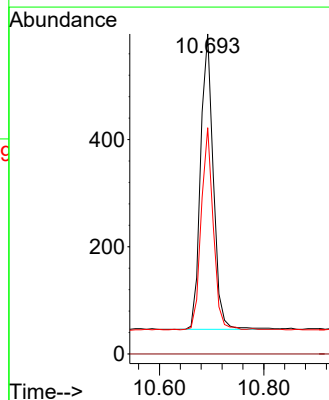
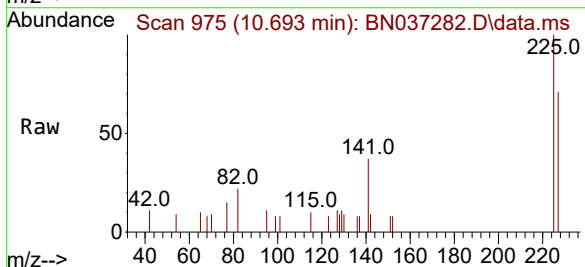
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ClientSampleId :
SSTDCCC0.4EC

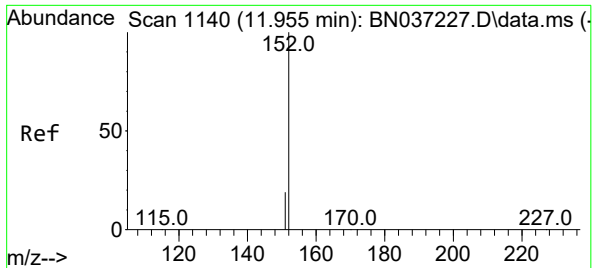
Tgt Ion:	128	Resp:	3674
Ion	Ratio	Lower	Upper
128	100		
129	13.5	10.7	16.1
127	15.9	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:	225	Resp:	930
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.1	49.2	73.8

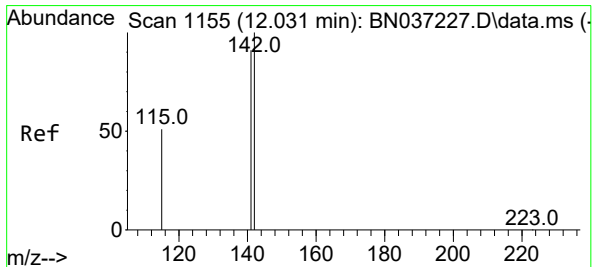
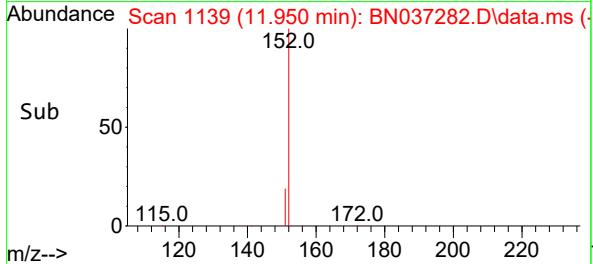
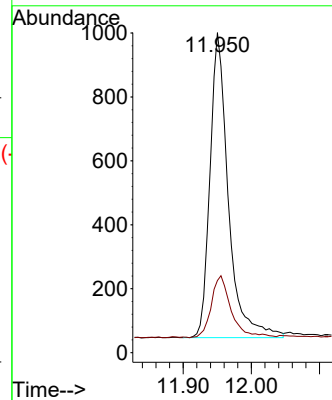
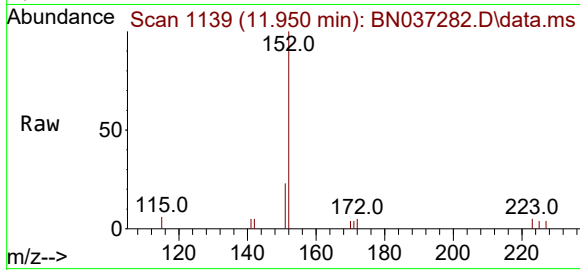




#11
2-Methylnaphthalene-d10
Concen: 0.419 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

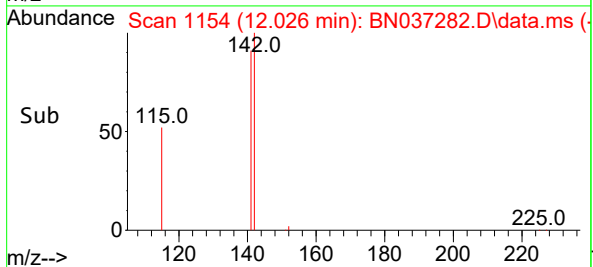
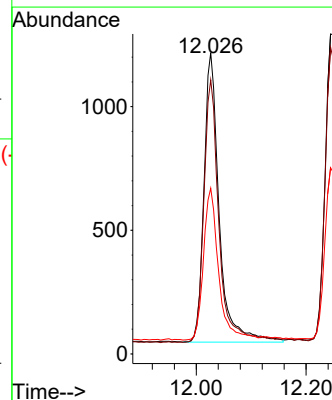
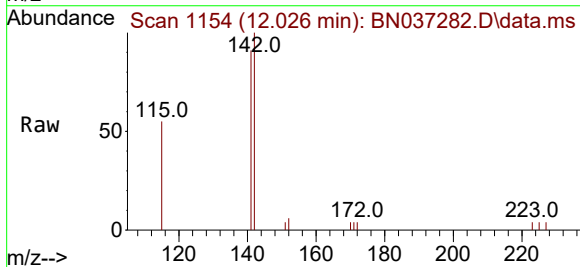
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

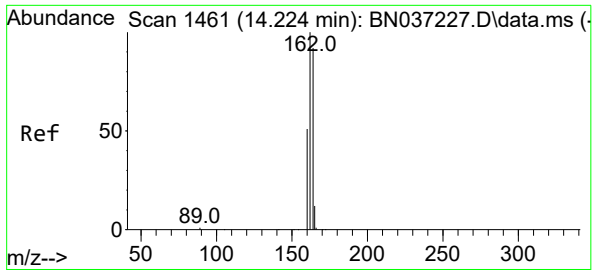
Tgt Ion:152 Resp: 1783
Ion Ratio Lower Upper
152 100
151 22.0 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.402 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:142 Resp: 2248
Ion Ratio Lower Upper
142 100
141 91.0 73.0 109.6
115 55.0 43.3 64.9

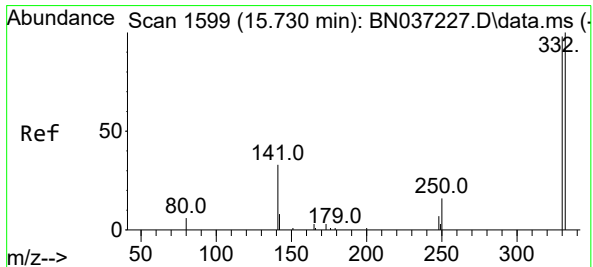
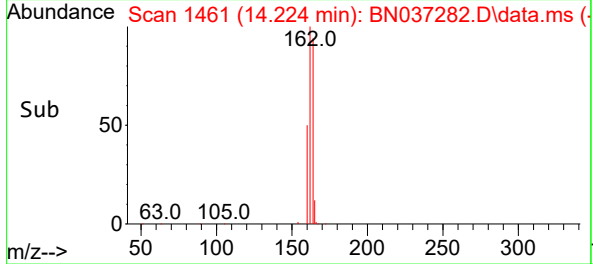
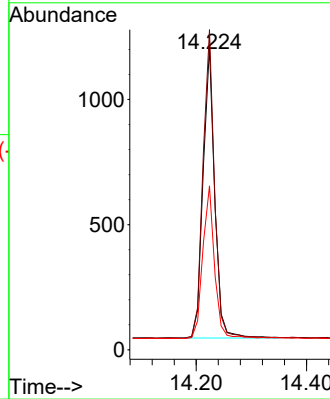
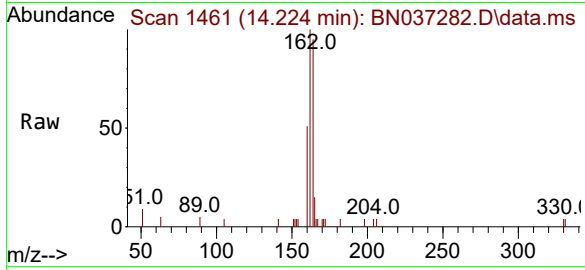




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

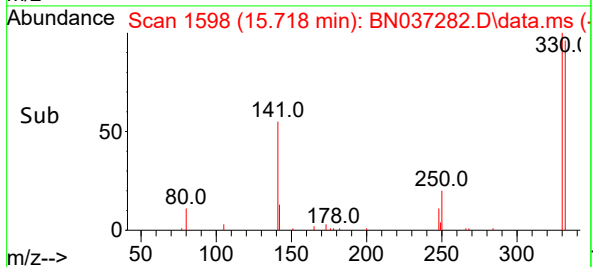
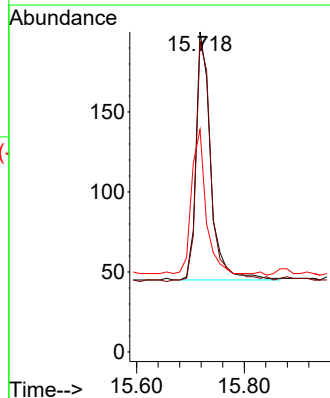
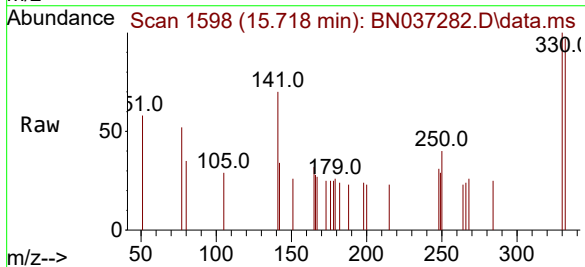
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

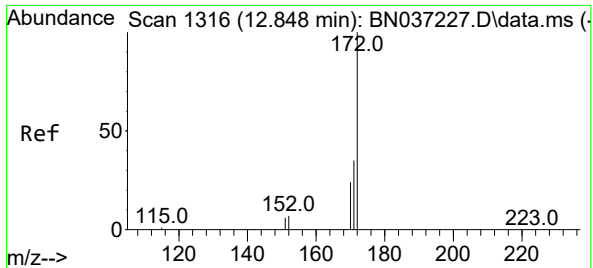
Tgt Ion:164 Resp: 1710
Ion Ratio Lower Upper
164 100
162 105.6 86.7 130.1
160 54.1 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:330 Resp: 293
Ion Ratio Lower Upper
330 100
332 101.0 74.9 112.3
141 57.0 45.1 67.7

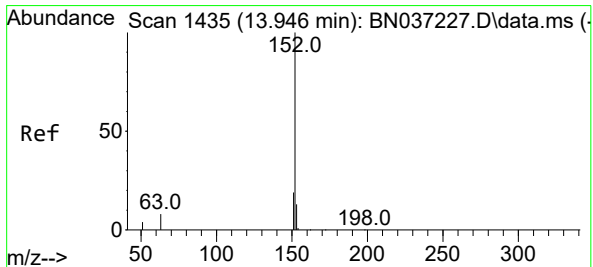
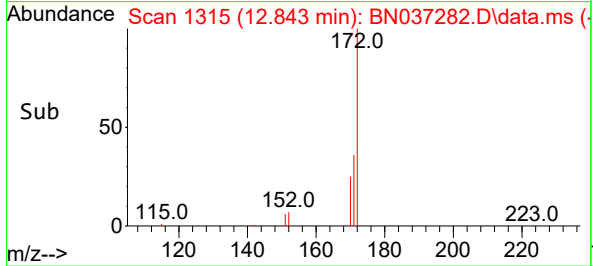
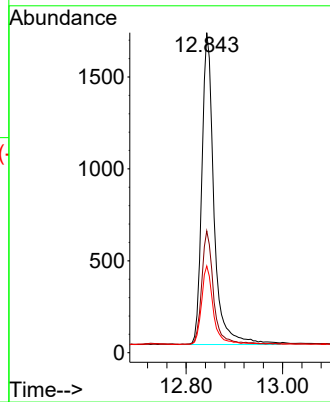
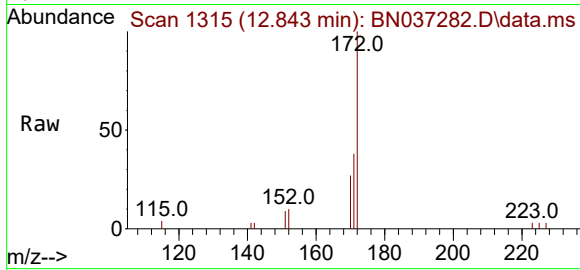




#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

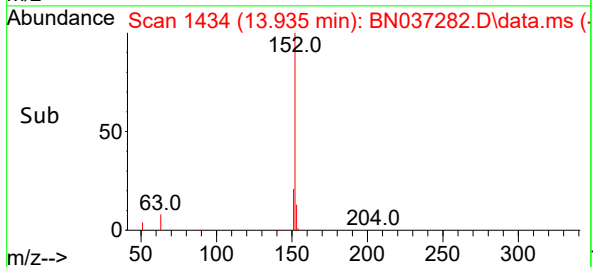
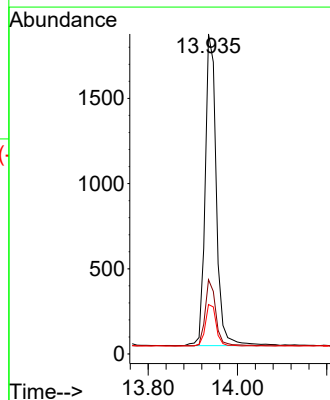
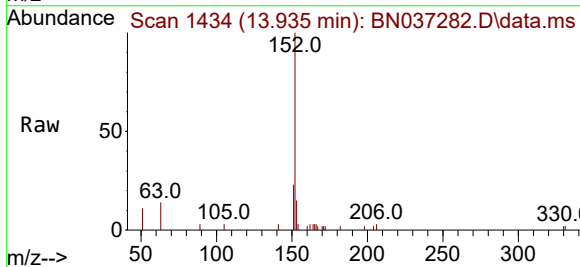
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

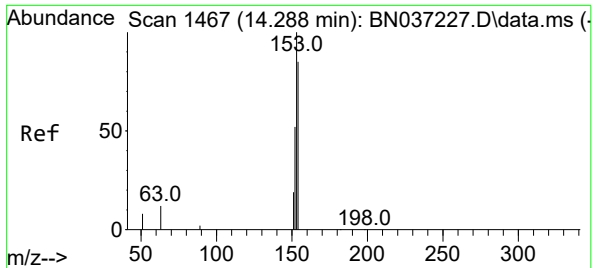
Tgt Ion:172	Resp:	2968
Ion Ratio	Lower	Upper
172	100	
171	38.1	29.8 44.8
170	27.1	21.1 31.7



#16
Acenaphthylene
Concen: 0.377 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:152	Resp:	3158
Ion Ratio	Lower	Upper
152	100	
151	20.6	15.7 23.5
153	13.2	10.7 16.1

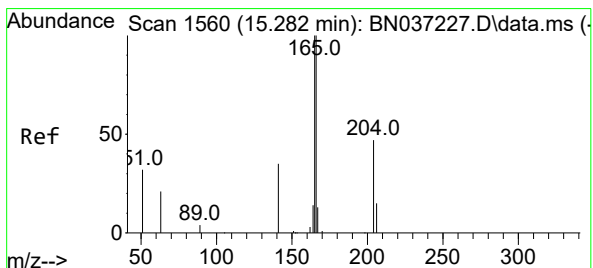
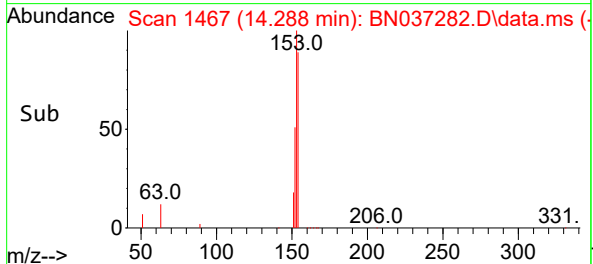
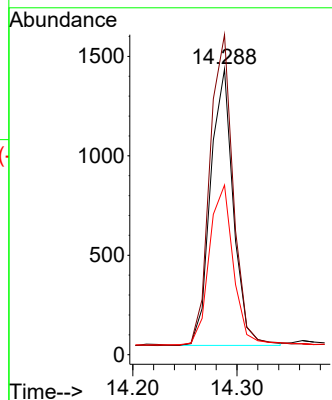
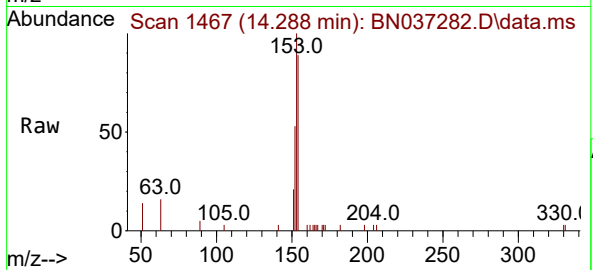




#17
Acenaphthene
Concen: 0.390 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

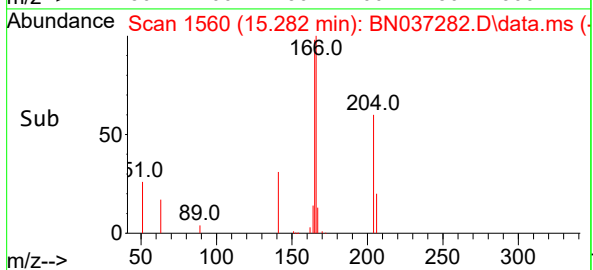
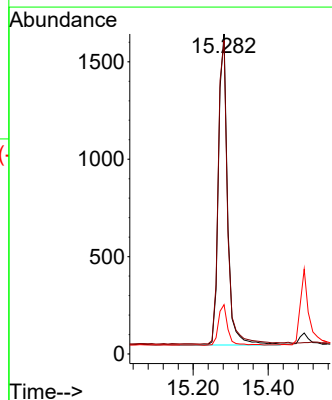
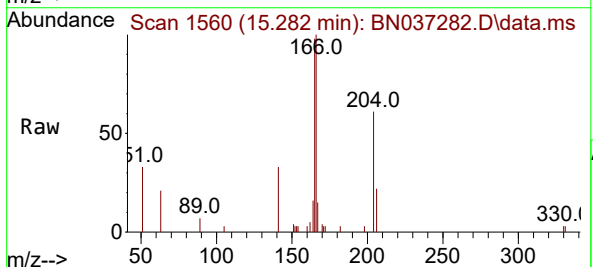
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

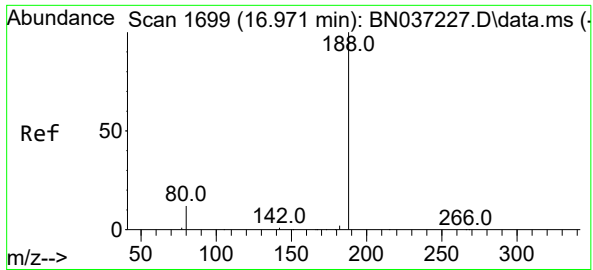
Tgt Ion:154 Resp: 2107
Ion Ratio Lower Upper
154 100
153 116.8 94.6 141.8
152 61.8 49.6 74.4



#18
Fluorene
Concen: 0.388 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:166 Resp: 2693
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.6
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

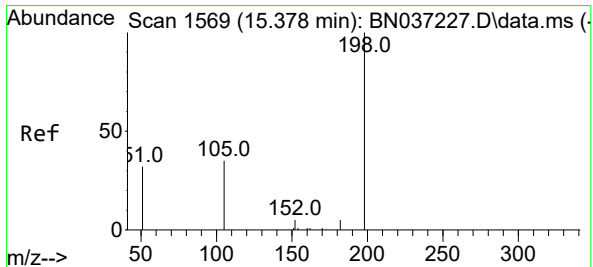
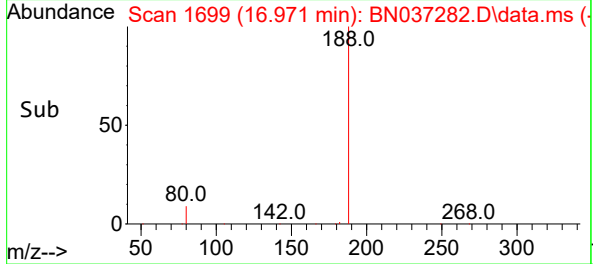
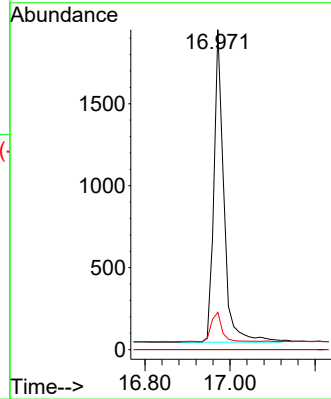
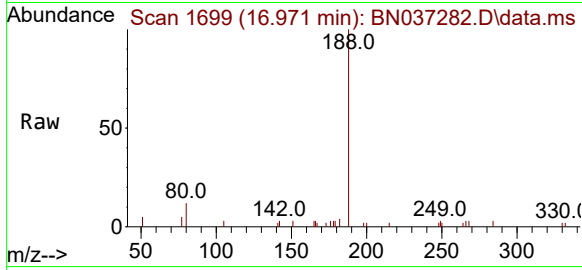
Tgt Ion:188 Resp: 3109

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.462 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

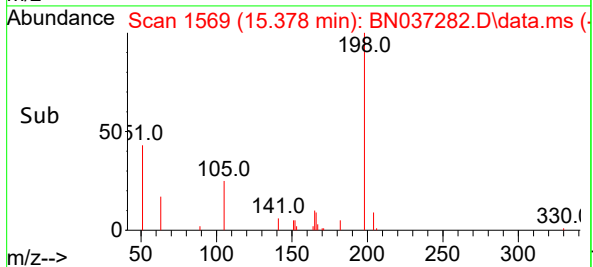
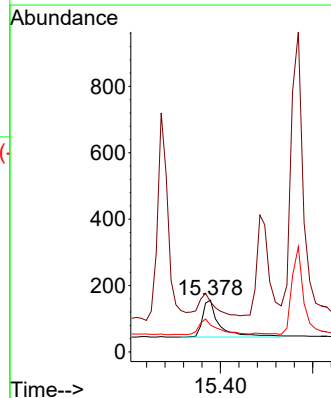
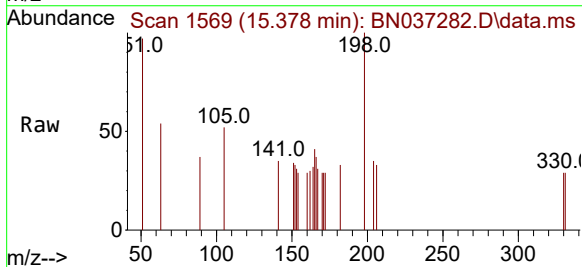
Tgt Ion:198 Resp: 282

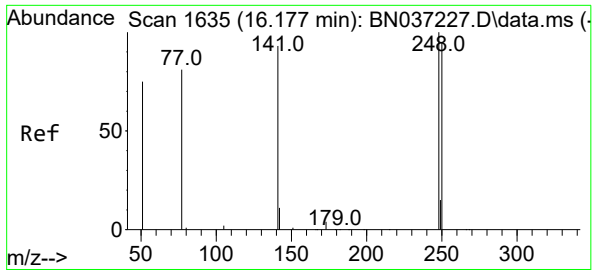
Ion Ratio Lower Upper

198 100

51 96.8 111.2 166.8#

105 51.9 54.0 81.0#

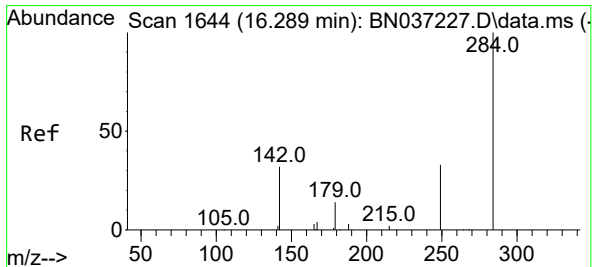
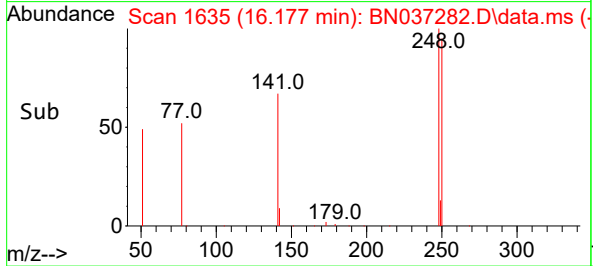
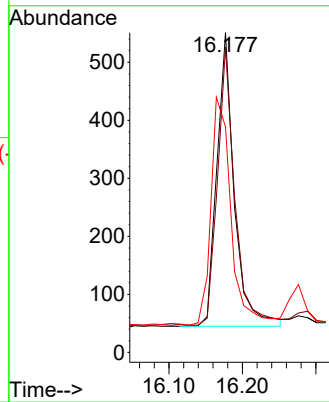
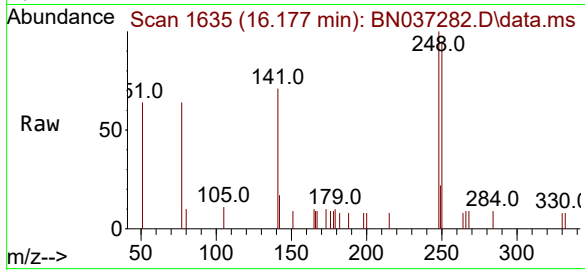




#21
4-Bromophenyl-phenylether
Concen: 0.412 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

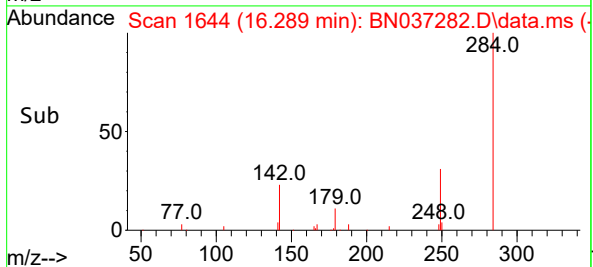
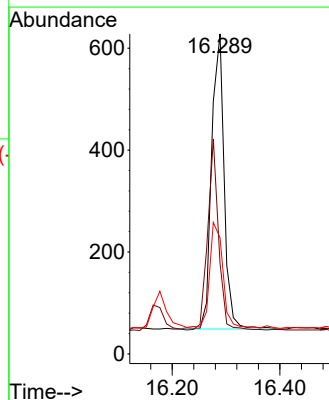
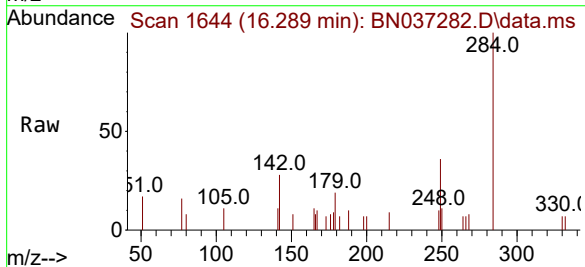
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

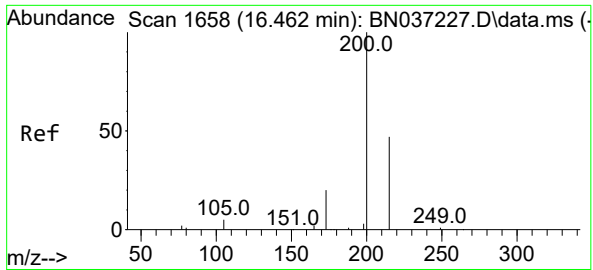
Tgt Ion:248 Resp: 834
Ion Ratio Lower Upper
248 100
250 95.5 76.8 115.2
141 70.6 75.6 113.4#



#22
Hexachlorobenzene
Concen: 0.396 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:284 Resp: 930
Ion Ratio Lower Upper
284 100
142 56.7 43.8 65.6
249 37.4 28.4 42.6

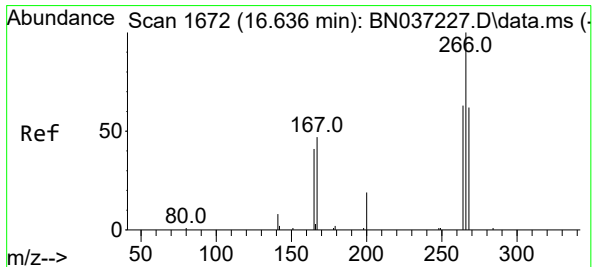
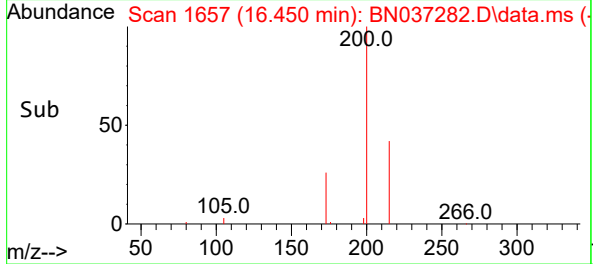
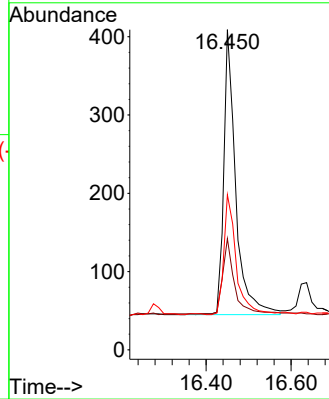
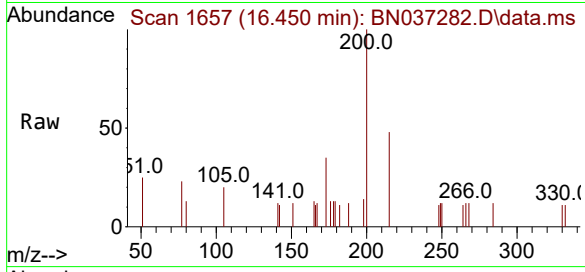




#23
Atrazine
Concen: 0.393 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

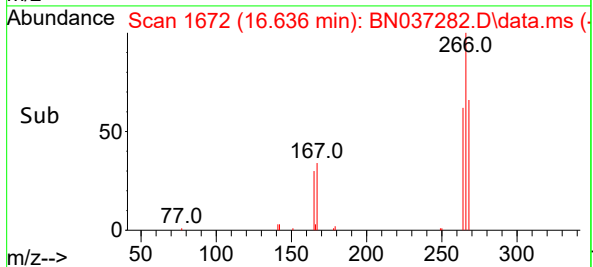
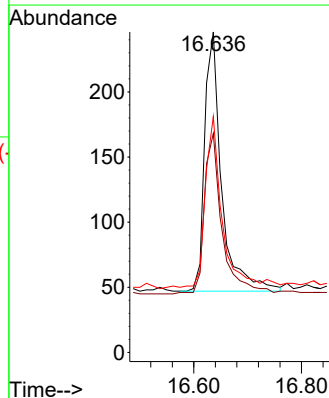
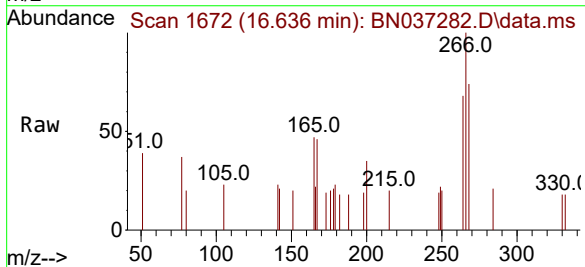
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

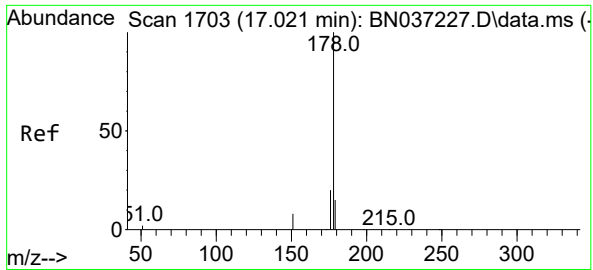
Tgt Ion:	200	Resp:	711
Ion	Ratio	Lower	Upper
200	100		
173	34.7	25.1	37.7
215	48.4	43.7	65.5



#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:	266	Resp:	435
Ion	Ratio	Lower	Upper
266	100		
264	64.1	49.2	73.8
268	65.5	53.4	80.2

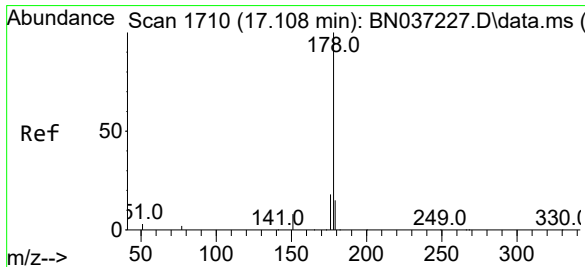
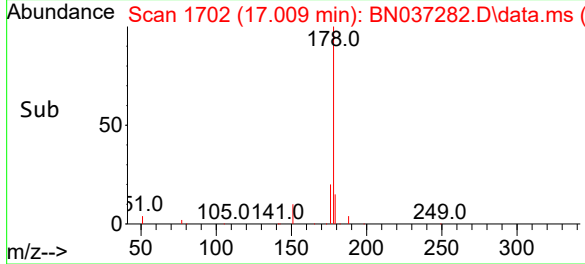
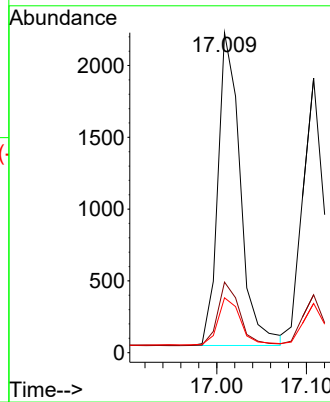
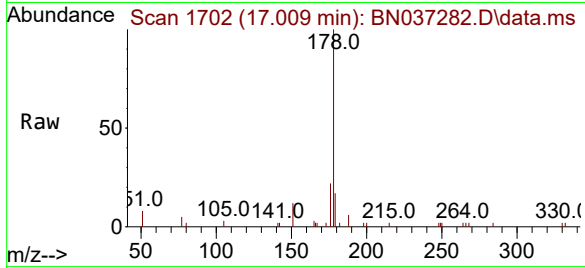




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

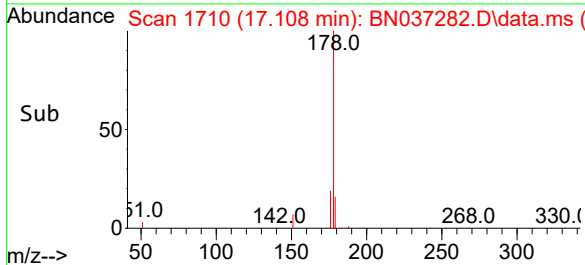
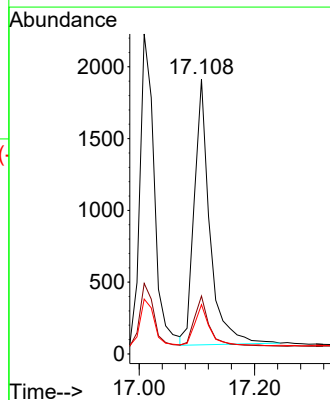
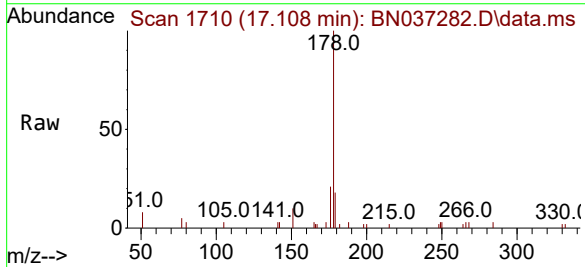
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

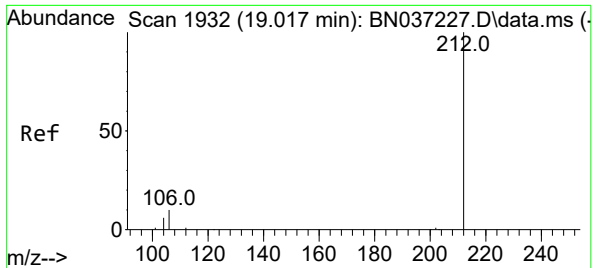
Tgt Ion:178 Resp: 3779
Ion Ratio Lower Upper
178 100
176 20.0 16.3 24.5
179 15.8 12.6 18.8



#26
Anthracene
Concen: 0.383 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:178 Resp: 3458
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.0 12.4 18.6

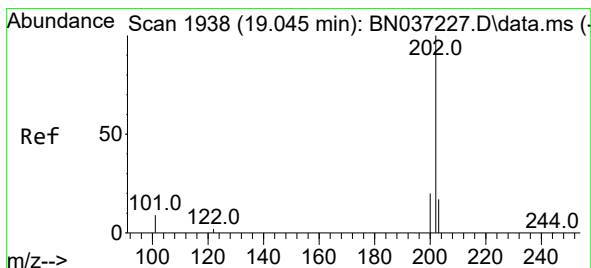
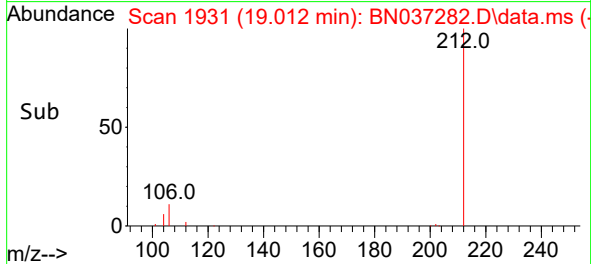
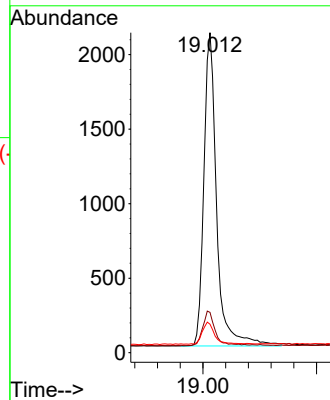
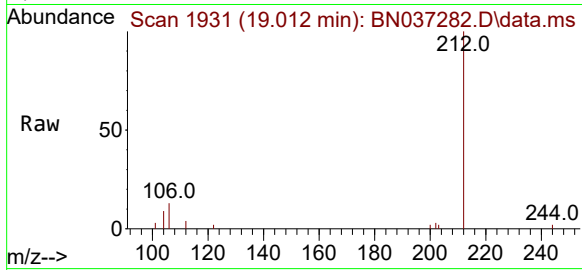




#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.012 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

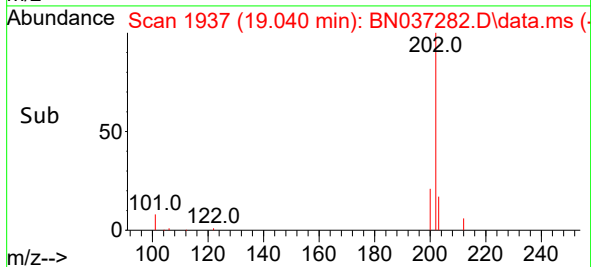
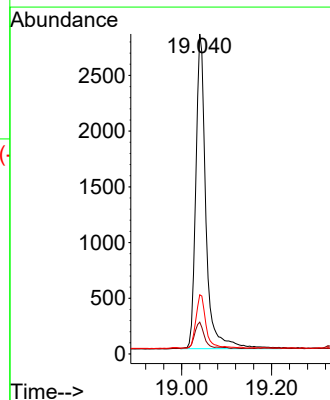
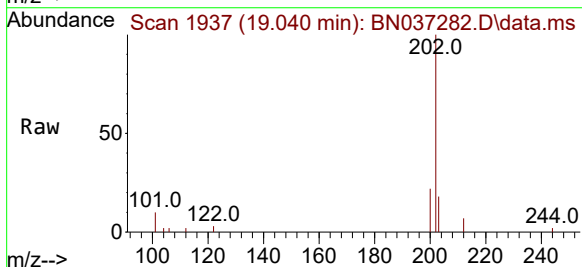
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

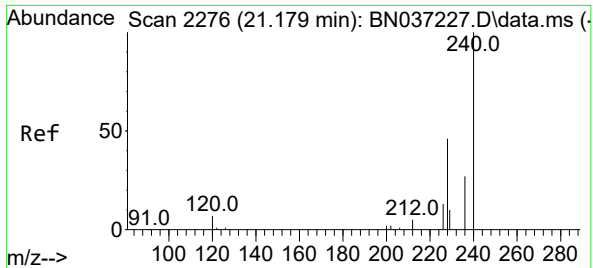
Tgt Ion:212 Resp: 3277
Ion Ratio Lower Upper
212 100
106 10.6 9.3 13.9
104 6.8 5.7 8.5



#28
Fluoranthene
Concen: 0.381 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.005 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:202 Resp: 4402
Ion Ratio Lower Upper
202 100
101 8.5 7.1 10.7
203 16.9 13.0 19.6

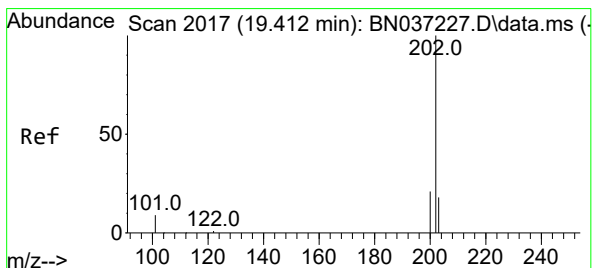
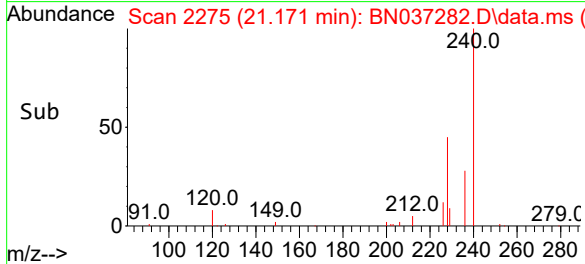
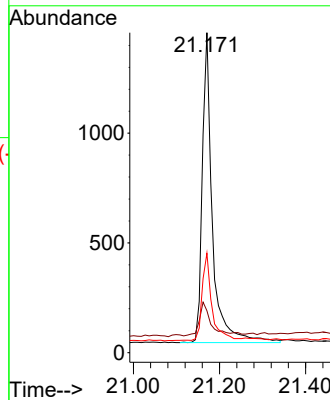
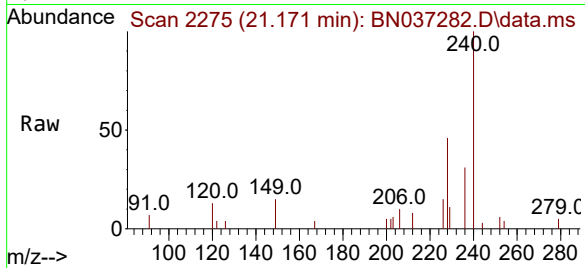




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

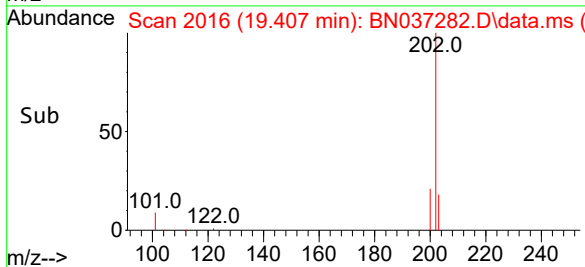
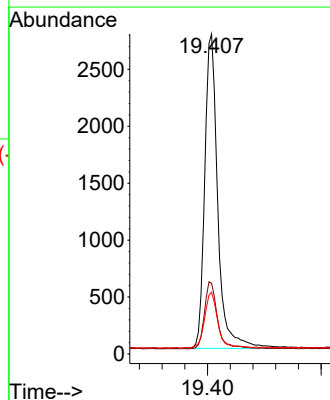
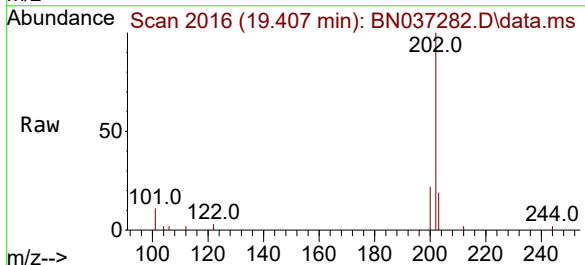
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

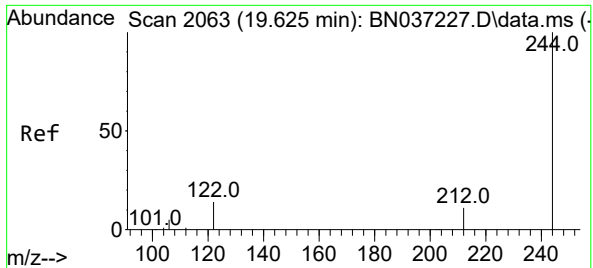
Tgt Ion:240 Resp: 2311
Ion Ratio Lower Upper
240 100
120 13.1 11.3 16.9
236 31.1 24.4 36.6



#30
Pyrene
Concen: 0.404 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:202 Resp: 4393
Ion Ratio Lower Upper
202 100
200 21.4 17.2 25.8
203 17.8 14.3 21.5

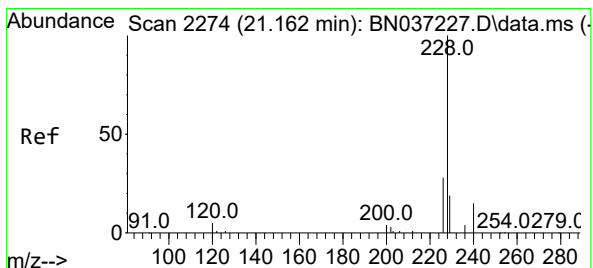
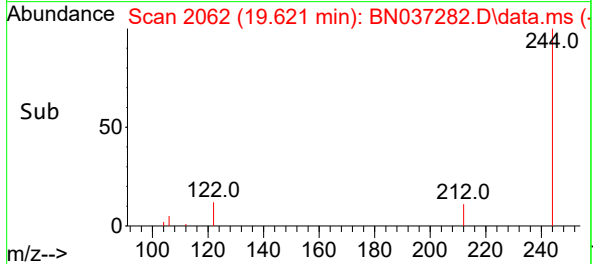
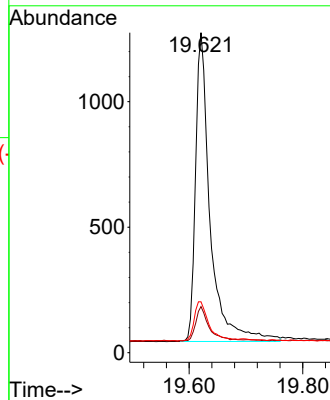
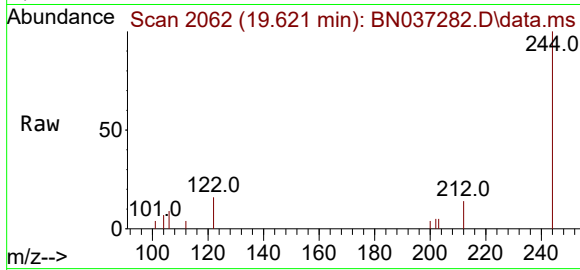




#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

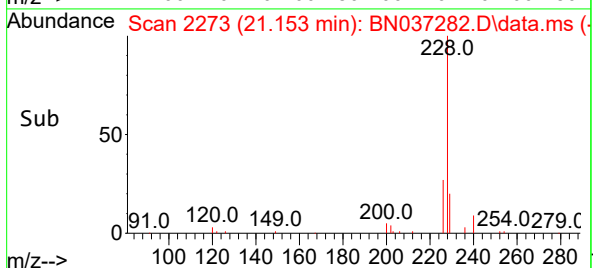
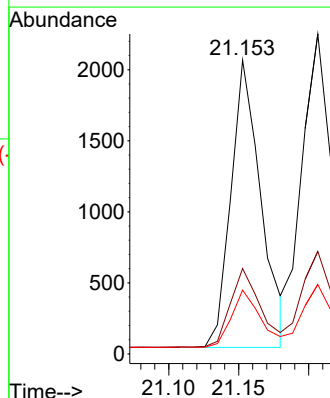
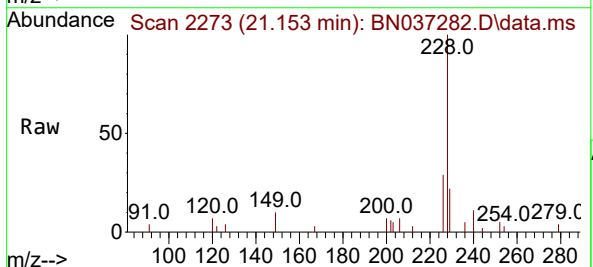
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

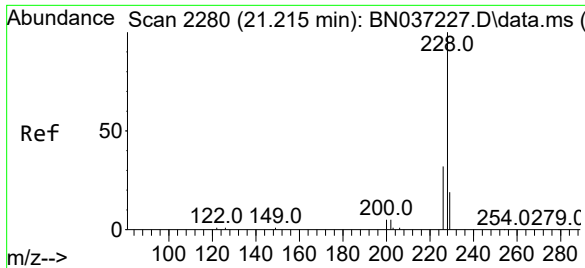
Tgt Ion:244 Resp: 2194
Ion Ratio Lower Upper
244 100
212 14.4 12.2 18.2
122 15.9 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.387 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:228 Resp: 3022
Ion Ratio Lower Upper
228 100
226 29.0 23.8 35.8
229 21.7 17.0 25.4





#33

Chrysene

Concen: 0.404 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

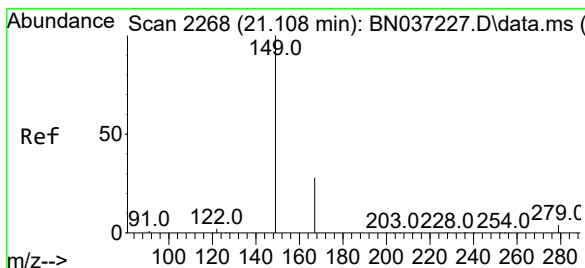
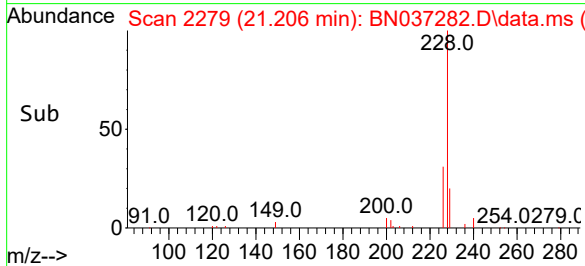
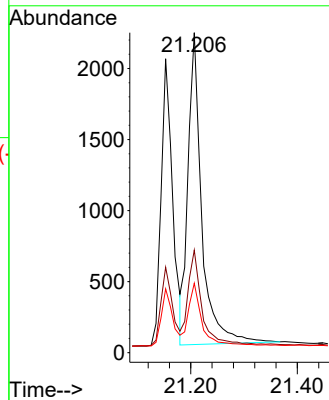
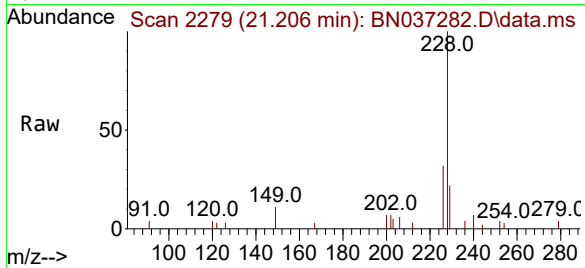
Tgt Ion:228 Resp: 3925

Ion Ratio Lower Upper

228 100

226 32.1 25.8 38.6

229 21.7 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.399 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

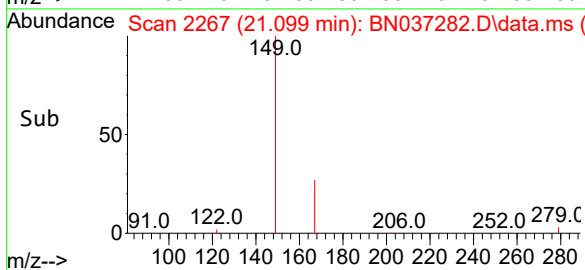
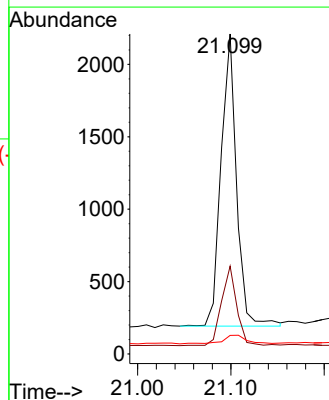
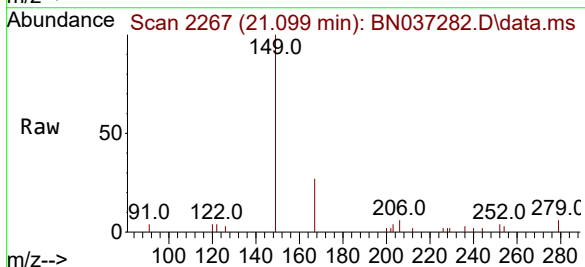
Tgt Ion:149 Resp: 2319

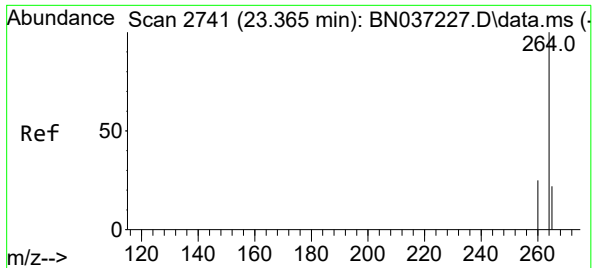
Ion Ratio Lower Upper

149 100

167 26.9 21.3 31.9

279 4.6 3.3 4.9

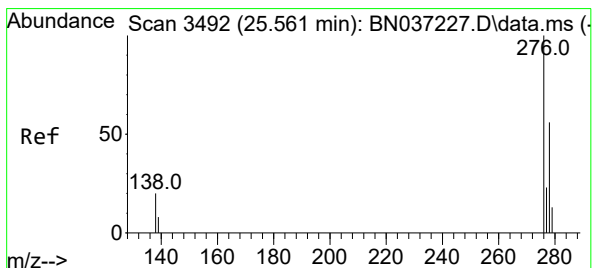
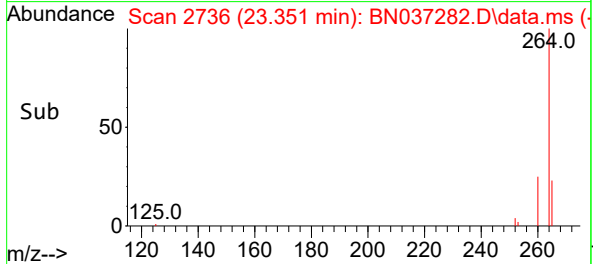
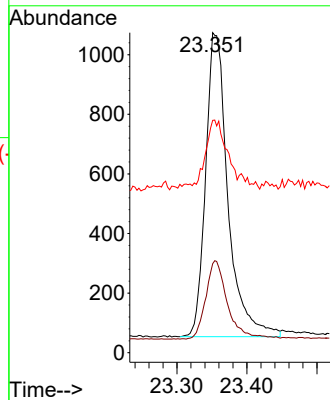
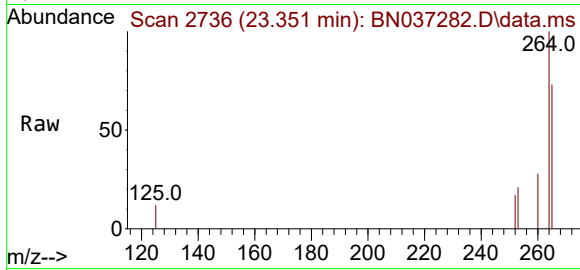




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 21
Delta R.T. -0.014 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

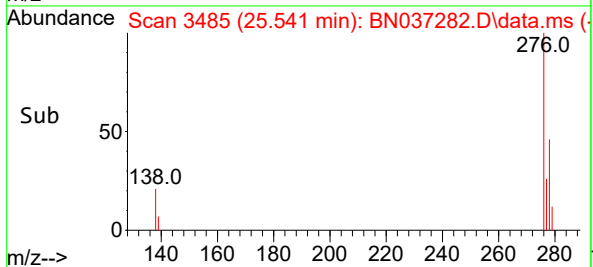
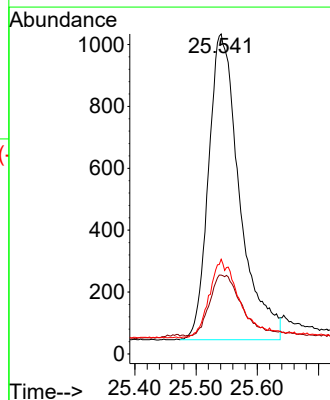
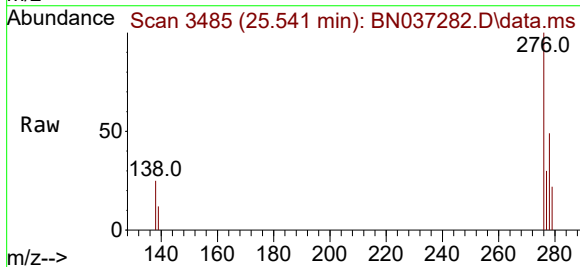
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

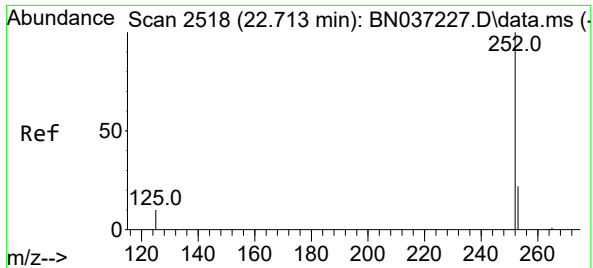
Tgt Ion:264 Resp: 2261
Ion Ratio Lower Upper
264 100
260 27.8 22.8 34.2
265 72.6 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.020 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:276 Resp: 3478
Ion Ratio Lower Upper
276 100
138 20.3 16.8 25.2
277 24.4 19.5 29.3

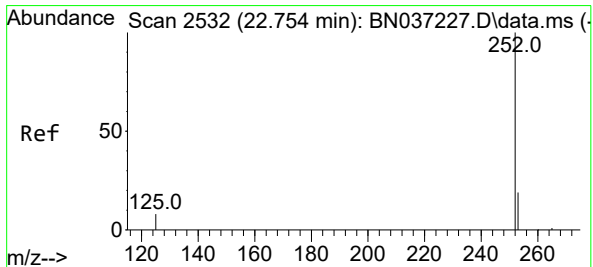
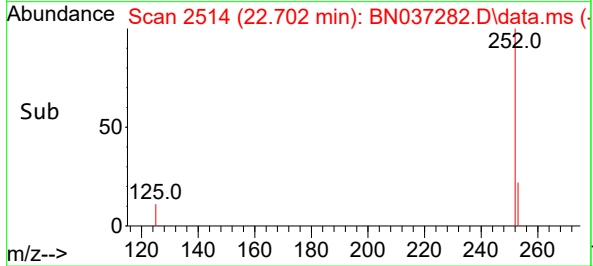
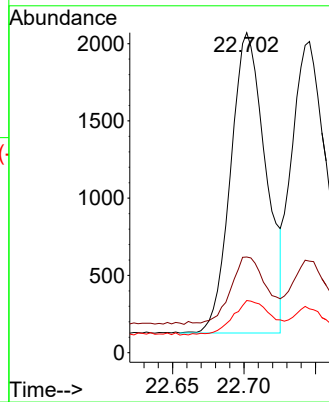
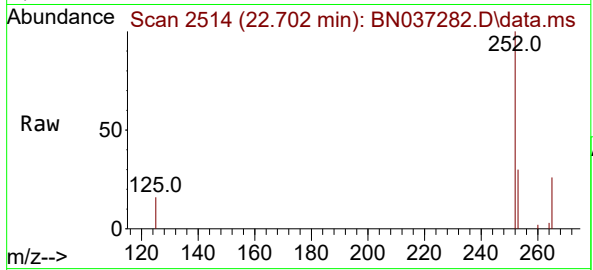




#37
Benzo(b)fluoranthene
Concen: 0.401 ng
RT: 22.702 min Scan# 2514
Delta R.T. -0.012 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

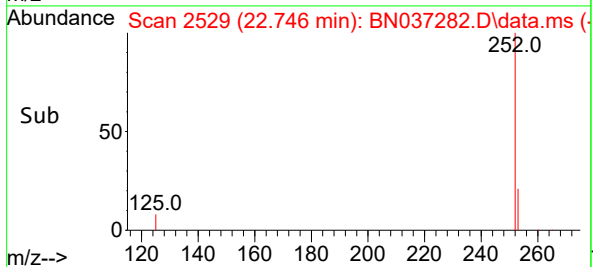
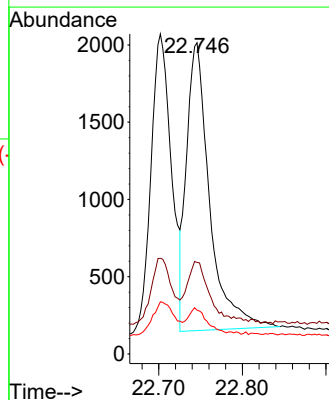
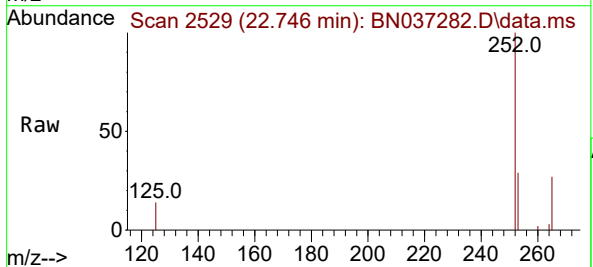
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

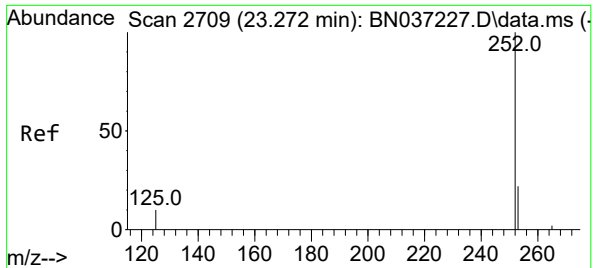
Tgt Ion:252 Resp: 3315
Ion Ratio Lower Upper
252 100
253 29.9 24.9 37.3
125 16.3 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.374 ng
RT: 22.746 min Scan# 2529
Delta R.T. -0.009 min
Lab File: BN037282.D
Acq: 15 Jun 2025 03:54

Tgt Ion:252 Resp: 3572
Ion Ratio Lower Upper
252 100
253 29.4 24.6 37.0
125 14.1 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

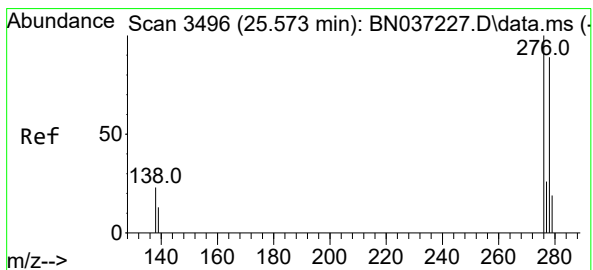
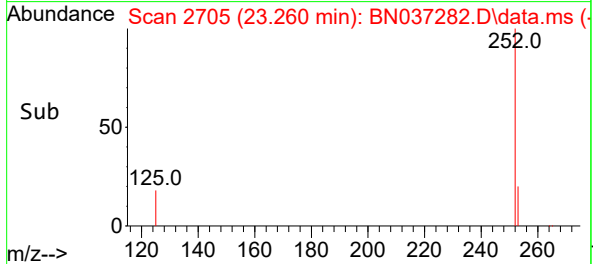
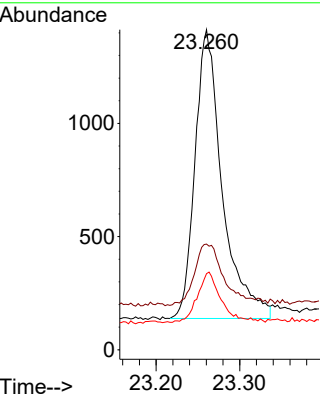
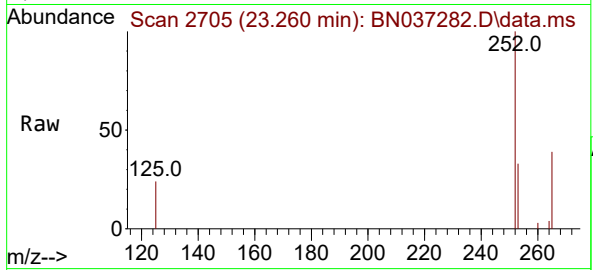
Tgt Ion:252 Resp: 2896

Ion Ratio Lower Upper

252 100

253 33.0 29.4 44.2

125 23.8 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

RT: 25.561 min Scan# 3492

Delta R.T. -0.012 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

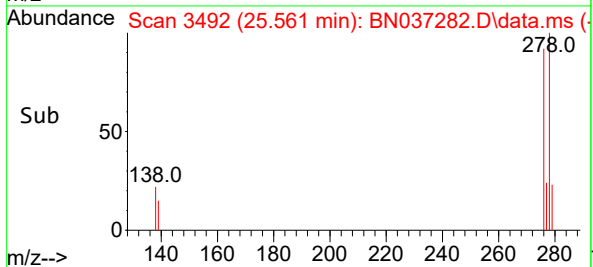
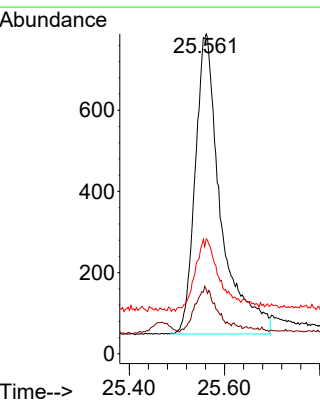
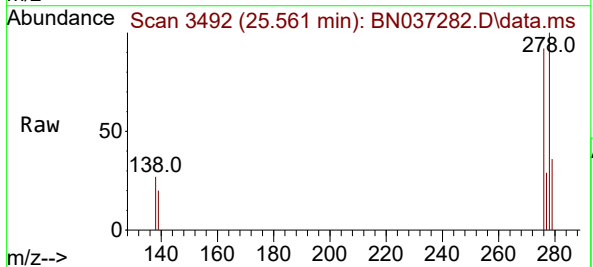
Tgt Ion:278 Resp: 2756

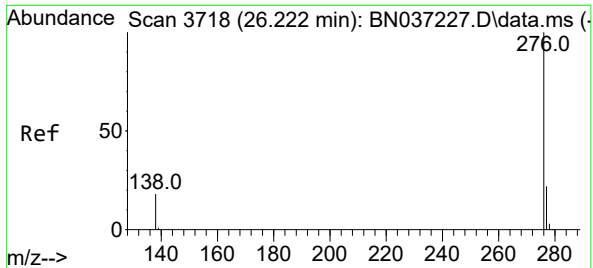
Ion Ratio Lower Upper

278 100

139 20.2 17.8 26.6

279 35.9 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.204 min Scan# 31

Delta R.T. -0.017 min

Lab File: BN037282.D

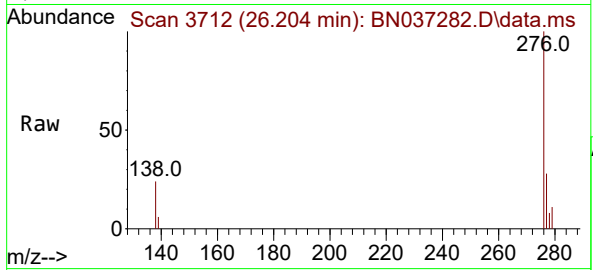
Acq: 15 Jun 2025 03:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



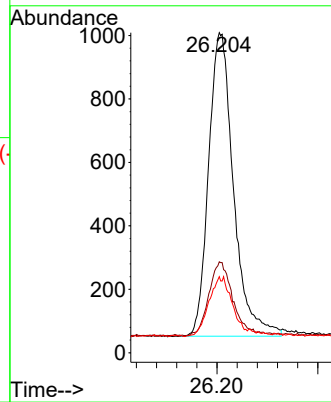
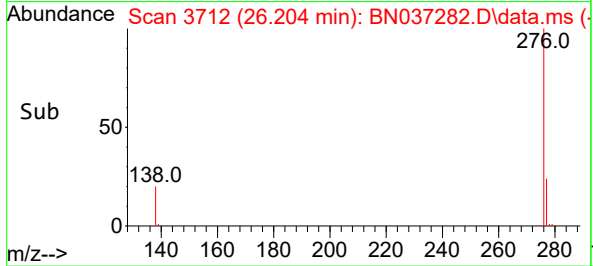
Tgt Ion:276 Resp: 3285

Ion Ratio Lower Upper

276 100

277 28.4 22.0 33.0

138 23.8 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037282.D
Acq On : 15 Jun 2025 03:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:47:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	101	0.00
2	1,4-Dioxane	0.549	0.485	11.7	93	0.00
3	n-Nitrosodimethylamine	1.250	1.258	-0.6	99	0.00
4 S	2-Fluorophenol	0.982	0.915	6.8	98	0.00
5 S	Phenol-d6	1.035	1.040	-0.5	109	0.00
6	bis(2-Chloroethyl)ether	0.927	0.944	-1.8	109	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	99	-0.01
8 S	Nitrobenzene-d5	0.395	0.420	-6.3	108	0.00
9	Naphthalene	1.158	1.158	0.0	101	0.00
10	Hexachlorobutadiene	0.282	0.293	-3.9	96	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.562	-4.7	100	0.00
12	2-Methylnaphthalene	0.704	0.708	-0.6	99	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
14 S	2,4,6-Tribromophenol	0.166	0.171	-3.0	98	-0.01
15 S	2-Fluorobiphenyl	1.681	1.736	-3.3	101	0.00
16	Acenaphthylene	1.960	1.847	5.8	97	-0.01
17	Acenaphthene	1.265	1.232	2.6	98	0.00
18	Fluorene	1.625	1.575	3.1	97	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.091	1.1	134	0.00
21	4-Bromophenyl-phenylether	0.261	0.268	-2.7	107	0.00
22	Hexachlorobenzene	0.302	0.299	1.0	94	0.00
23	Atrazine	0.232	0.229	1.3	100	-0.01
24	Pentachlorophenol	0.148	0.140	5.4	110	0.00
25	Phenanthrene	1.269	1.216	4.2	100	-0.01
26	Anthracene	1.161	1.112	4.2	100	0.00
27 SURR	Fluoranthene-d10	1.046	1.054	-0.8	97	0.00
28	Fluoranthene	1.485	1.416	4.6	98	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	101	0.00
30	Pyrene	1.881	1.901	-1.1	98	0.00
31 S	Terphenyl-d14	0.904	0.949	-5.0	102	0.00
32	Benzo(a)anthracene	1.351	1.308	3.2	108	0.00
33	Chrysene	1.683	1.698	-0.9	101	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	1.003	0.3	99	0.00
35 I	Perylene-d12	1.000	1.000	0.0	105	-0.01
36	Indeno(1,2,3-cd)pyrene	1.613	1.538	4.6	107	-0.02
37	Benzo(b)fluoranthene	1.463	1.466	-0.2	112	-0.01
38	Benzo(k)fluoranthene	1.689	1.580	6.5	102	0.00
39 C	Benzo(a)pyrene	1.316	1.281	2.7	109	-0.01
40	Dibenzo(a,h)anthracene	1.227	1.219	0.7	122	-0.01
41	Benzo(g,h,i)perylene	1.496	1.453	2.9	106	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037282.D
 Acq On : 15 Jun 2025 03:54
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 02:47:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	101	0.00
2	1,4-Dioxane	0.400	0.353	11.8	93	0.00
3	n-Nitrosodimethylamine	0.400	0.403	-0.8	99	0.00
4 S	2-Fluorophenol	0.400	0.373	6.8	98	0.00
5 S	Phenol-d6	0.400	0.402	-0.5	109	0.00
6	bis(2-Chloroethyl)ether	0.400	0.407	-1.7	109	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	99	-0.01
8 S	Nitrobenzene-d5	0.400	0.425	-6.2	108	0.00
9	Naphthalene	0.400	0.400	0.0	101	0.00
10	Hexachlorobutadiene	0.400	0.416	-4.0	96	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.419	-4.7	100	0.00
12	2-Methylnaphthalene	0.400	0.402	-0.5	99	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	98	0.00
14 S	2,4,6-Tribromophenol	0.400	0.413	-3.2	98	-0.01
15 S	2-Fluorobiphenyl	0.400	0.413	-3.2	101	0.00
16	Acenaphthylene	0.400	0.377	5.8	97	-0.01
17	Acenaphthene	0.400	0.390	2.5	98	0.00
18	Fluorene	0.400	0.388	3.0	97	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.462	-15.5	134	0.00
21	4-Bromophenyl-phenylether	0.400	0.412	-3.0	107	0.00
22	Hexachlorobenzene	0.400	0.396	1.0	94	0.00
23	Atrazine	0.400	0.393	1.8	100	-0.01
24	Pentachlorophenol	0.400	0.378	5.5	110	0.00
25	Phenanthrene	0.400	0.383	4.3	100	-0.01
26	Anthracene	0.400	0.383	4.3	100	0.00
27 SURR	Fluoranthene-d10	0.400	0.403	-0.8	97	0.00
28	Fluoranthene	0.400	0.381	4.8	98	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	101	0.00
30	Pyrene	0.400	0.404	-1.0	98	0.00
31 S	Terphenyl-d14	0.400	0.420	-5.0	102	0.00
32	Benzo(a)anthracene	0.400	0.387	3.3	108	0.00
33	Chrysene	0.400	0.404	-1.0	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.399	0.3	99	0.00
35 I	Perylene-d12	0.400	0.400	0.0	105	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.381	4.8	107	-0.02
37	Benzo(b)fluoranthene	0.400	0.401	-0.3	112	-0.01
38	Benzo(k)fluoranthene	0.400	0.374	6.5	102	0.00
39 C	Benzo(a)pyrene	0.400	0.389	2.8	109	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.397	0.8	122	-0.01
41	Benzo(g,h,i)perylene	0.400	0.389	2.8	106	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

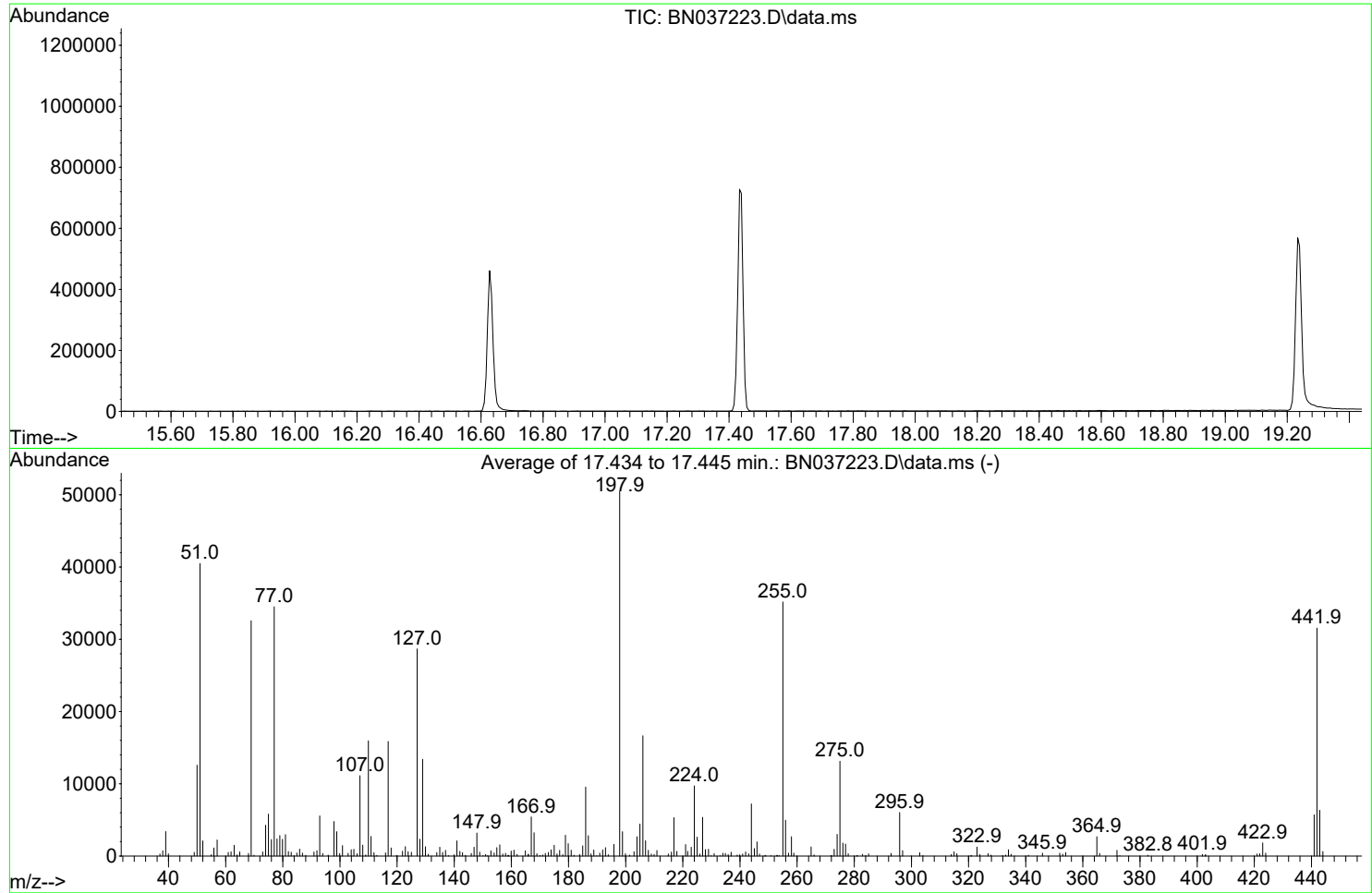
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- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
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\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



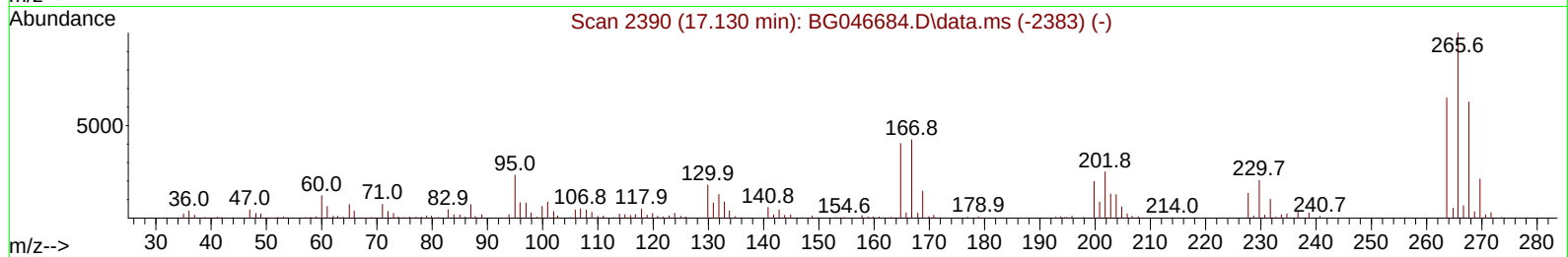
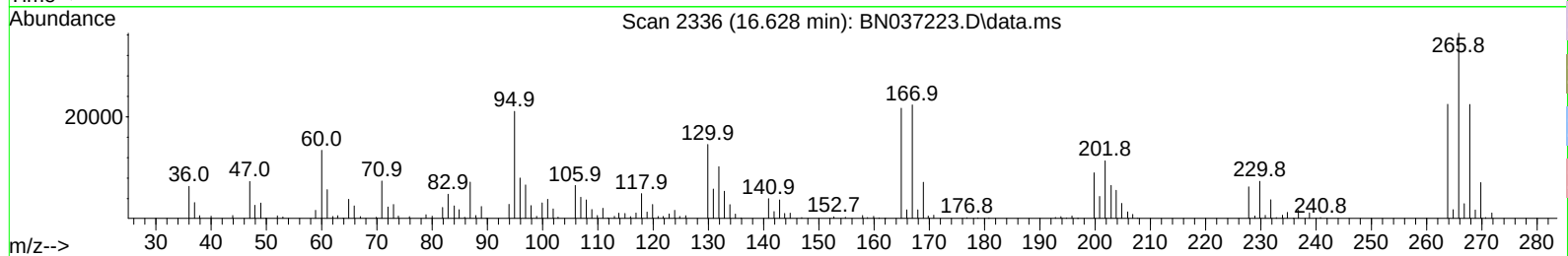
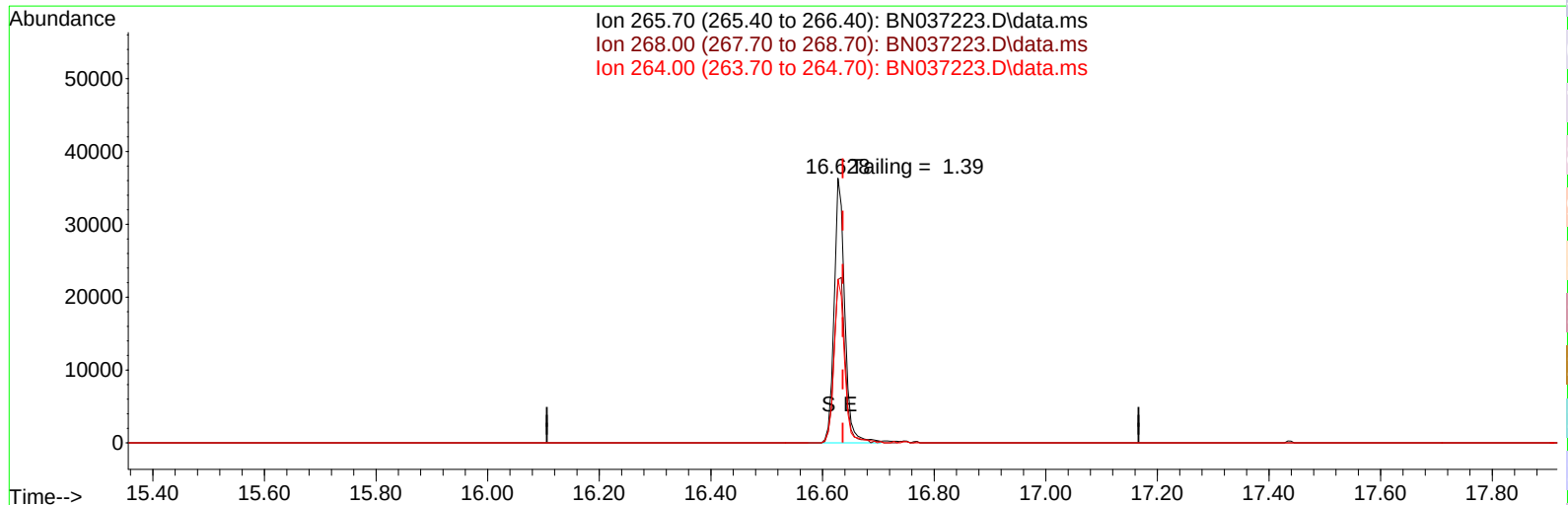
AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2466

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.1	362	PASS
69	69	100	100	100.0	32573	PASS
70	69	0.00	2	0.4	132	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	50453	PASS
199	198	5	9	6.7	3367	PASS
365	198	1	100	5.3	2675	PASS
441	443	0.01	150	90.1	5714	PASS
442	442	100	100	100.0	31557	PASS
443	442	15	24	20.1	6344	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 13 18:35:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 10 06:01:37 2025
Response via : Initial Calibration



TIC: BN037223.D\data.ms

(70) Pentachlorophenol (C)

16.628min (-0.008) 13765.31 ng

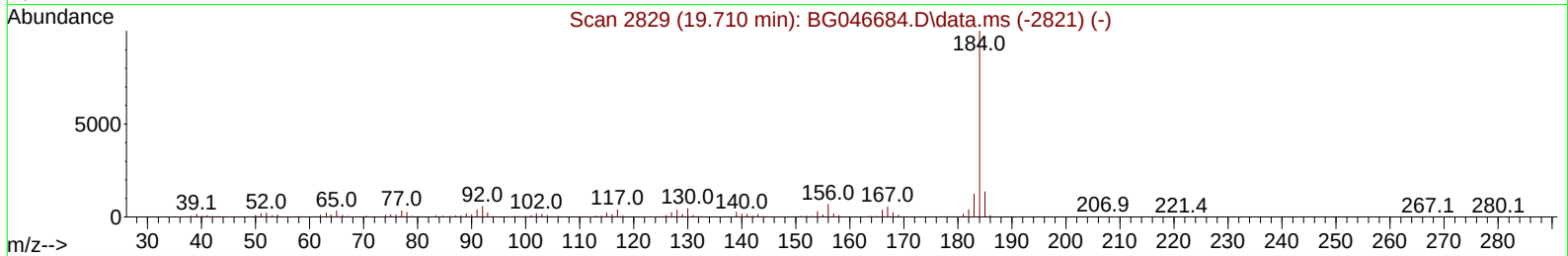
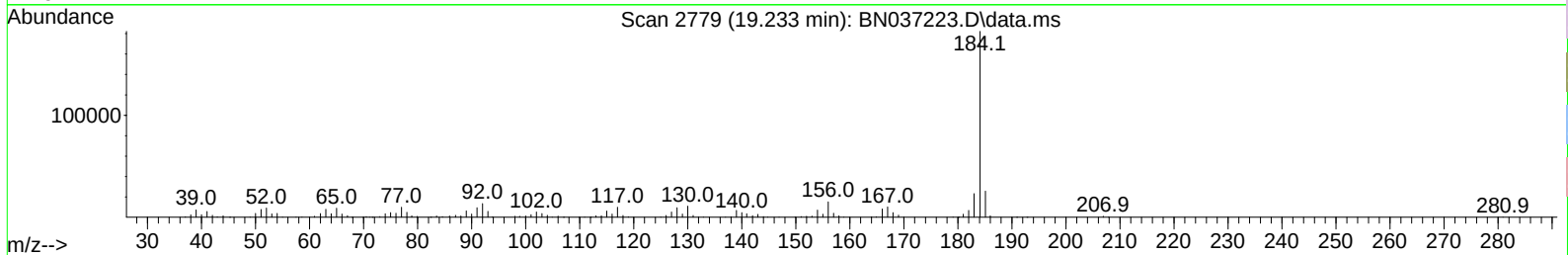
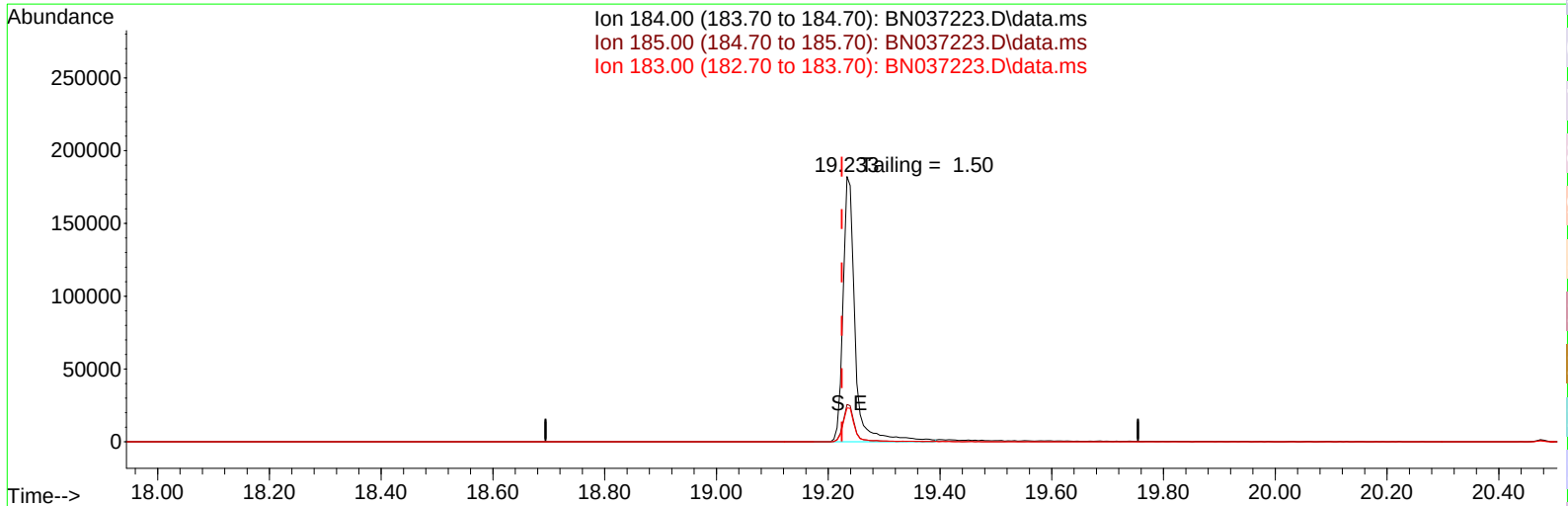
response 48504

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.73
264.00	61.60	61.82
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 13 18:35:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 10 06:01:37 2025
Response via : Initial Calibration



TIC: BN037223.D\data.ms

(77) Benzidine

19.233min (+ 0.009) 0.00 ng

response 272616

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.12
183.00	13.20	12.75
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

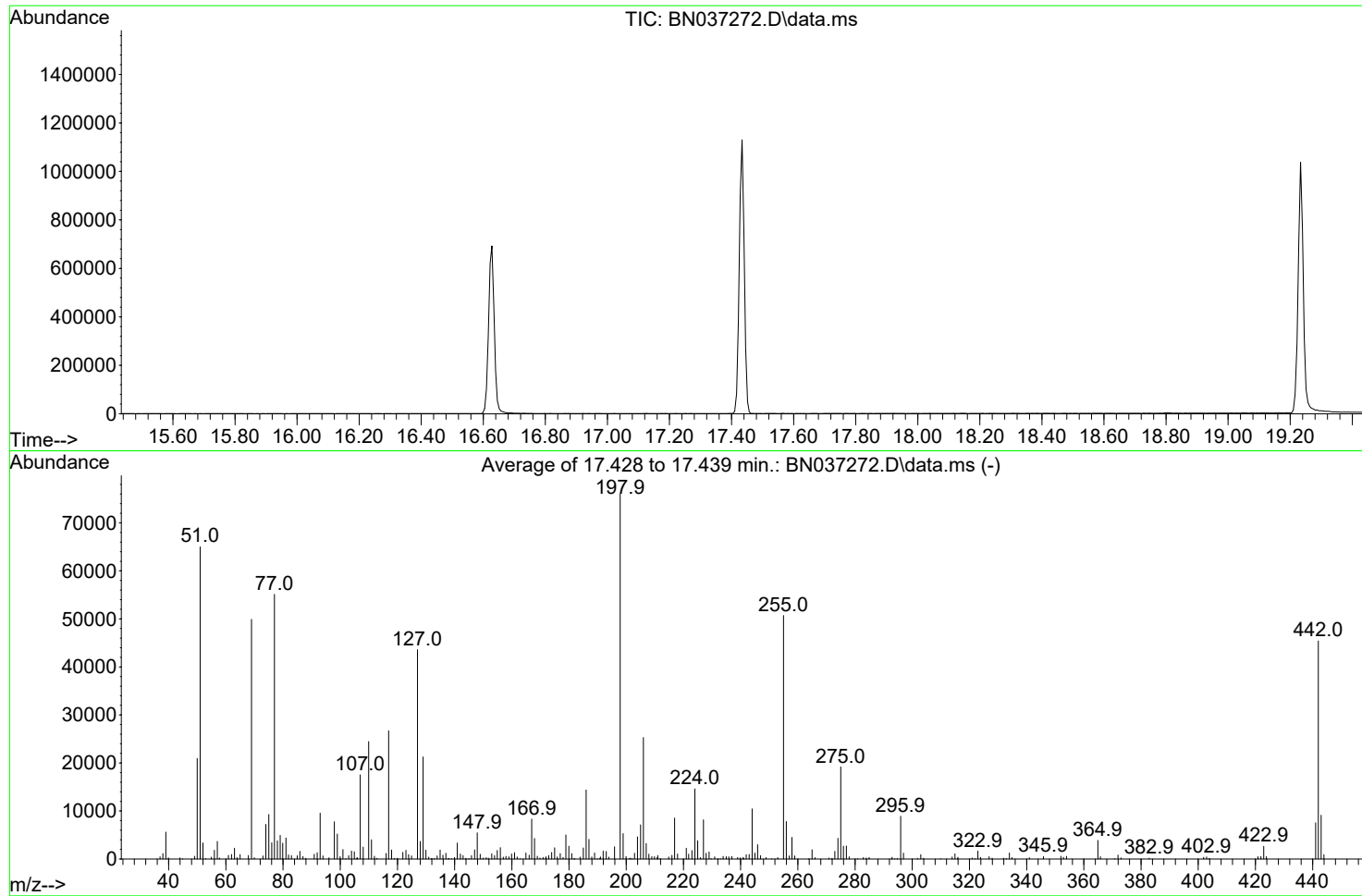
Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	<u>BN037223.D</u>
Compound Name	Response	Retention Time
DDT	179828	20.475
DDD	1789	20.086
DDE	62	19.528
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
1851	181679	1.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037272.D
Acq On : 14 Jun 2025 21:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



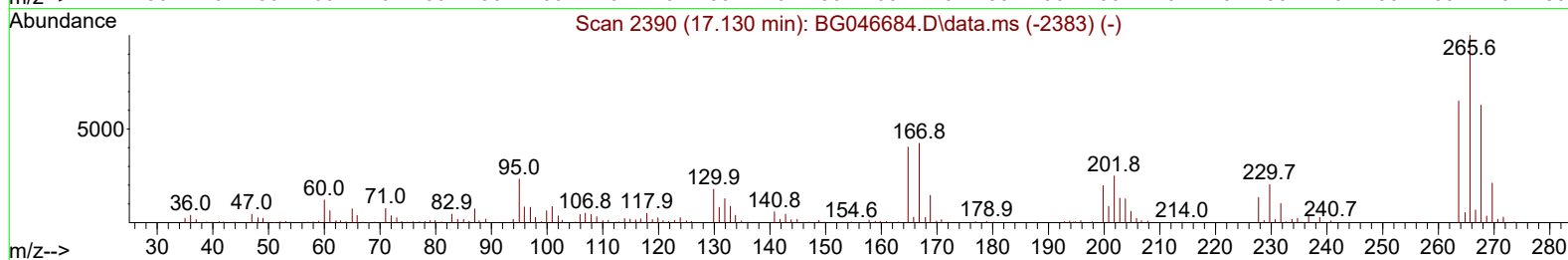
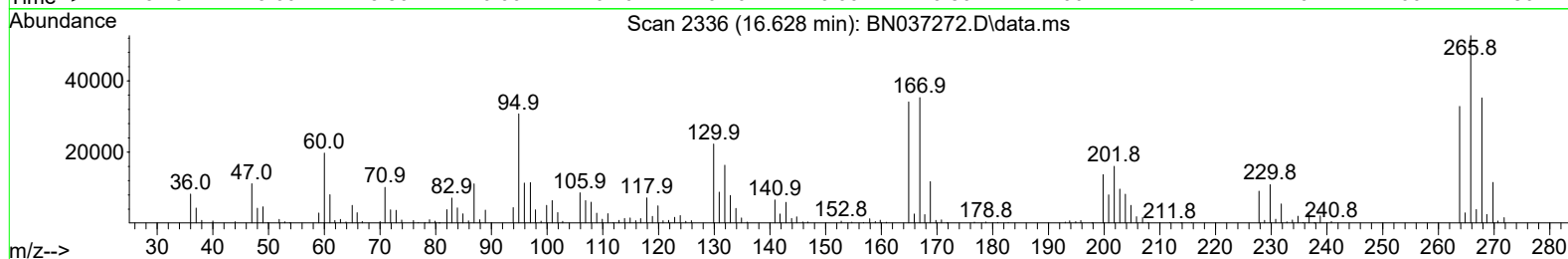
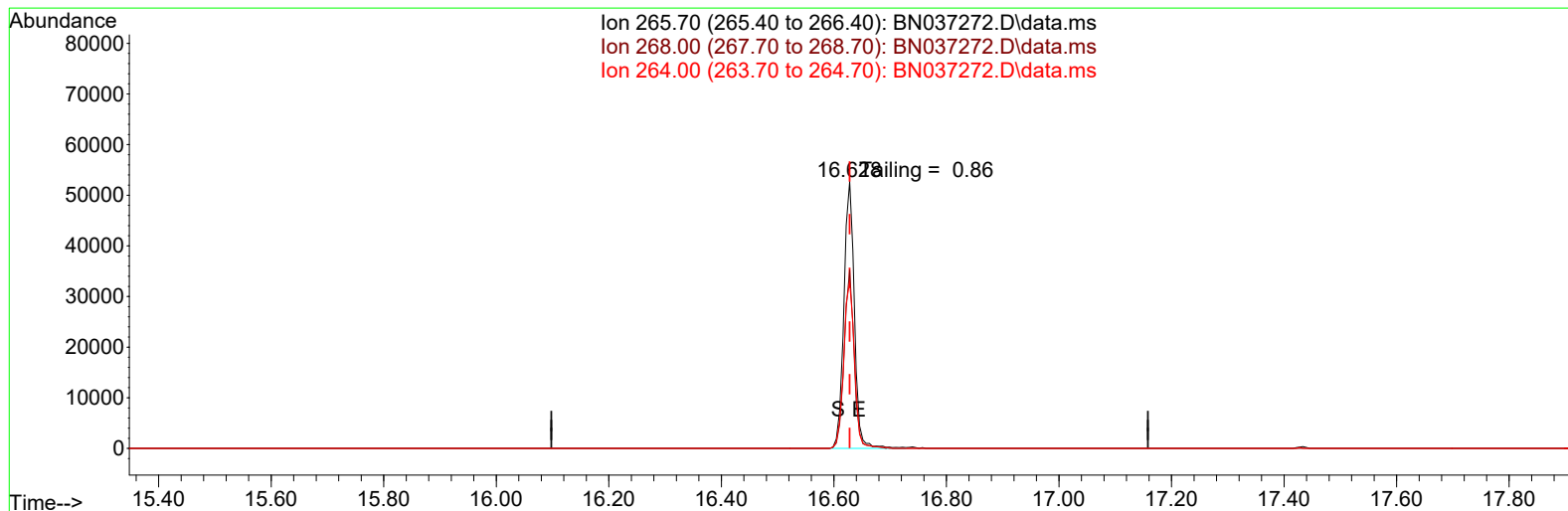
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2466

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.5	741	PASS
69	69	100	100	100.0	49899	PASS
70	69	0.00	2	0.6	291	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	76024	PASS
199	198	5	9	7.0	5292	PASS
365	198	1	100	5.1	3876	PASS
441	443	0.01	150	82.8	7543	PASS
442	442	100	100	100.0	45411	PASS
443	442	15	24	20.1	9108	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037272.D
Acq On : 14 Jun 2025 21:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 03:00:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 03:00:26 2025
Response via : Initial Calibration



TIC: BN037272.D\data.ms

(70) Pentachlorophenol (C)

16.628min (0.000) 15244.65 ng

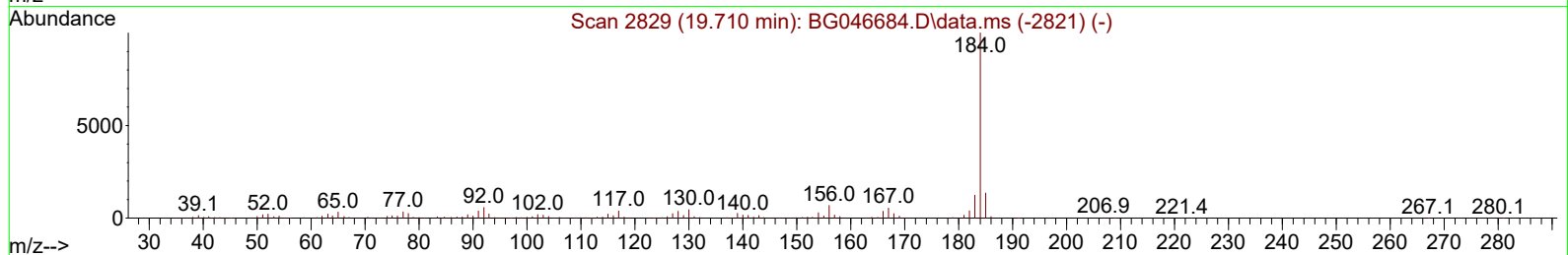
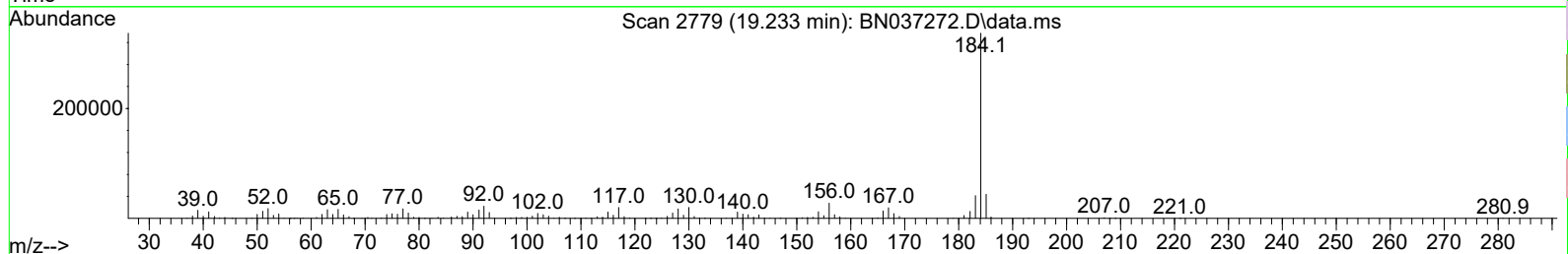
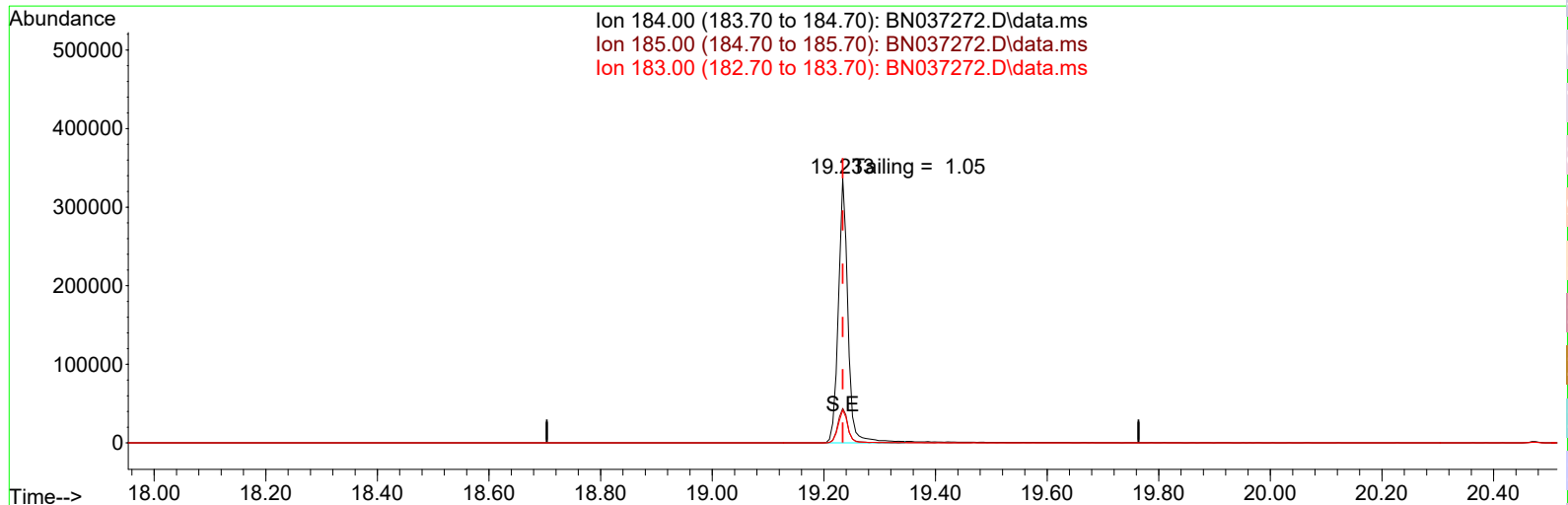
response 68073

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	71.57
264.00	61.60	62.32
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037272.D
Acq On : 14 Jun 2025 21:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 03:00:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 03:00:26 2025
Response via : Initial Calibration



TIC: BN037272.D\data.ms

(77) Benzidine

19.233min (0.000) 0.00 ng

response 404622

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.08
183.00	13.20	12.35
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	<u>BN037272.D</u>
Compound Name	Response	Retention Time
DDT	228732	20.475
DDD	3511	20.033
DDE	0	0
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
3511	232243	1.51

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168476BL	SDG No.:	Q2316
Lab Sample ID:	PB168476BL	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
BN037274.D	1	06/13/25 11:00	06/14/25 23:07	PB168476

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	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1110	7.575				
1146-65-2	Naphthalene-d8	2540	10.361				
15067-26-2	Acenaphthene-d10	1350	14.224				
1517-22-2	Phenanthrene-d10	2240	16.984				
1719-03-5	Chrysene-d12	1650	21.171				
1520-96-3	Perylene-d12	1590	23.357				

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\BN061325\
Data File : BN037274.D
Acq On : 14 Jun 2025 23:07
Operator : RC/JU
Sample : PB168476BL
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168476BL

Quant Time: Jun 16 02:46:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1111	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2537	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1345	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2242	0.400	ng	0.01
29) Chrysene-d12	21.171	240	1645	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	1590	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	979	0.359	ng	0.00
5) Phenol-d6	6.759	99	862	0.300	ng	0.00
8) Nitrobenzene-d5	8.749	82	737	0.294	ng	0.02
11) 2-Methylnaphthalene-d10	11.965	152	1137	0.334	ng	0.01
14) 2,4,6-Tribromophenol	15.742	330	182	0.326	ng	0.01
15) 2-Fluorobiphenyl	12.858	172	1901	0.336	ng	0.01
27) Fluoranthene-d10	19.017	212	2116	0.361	ng	0.00
31) Terphenyl-d14	19.625	244	1410	0.379	ng	0.00

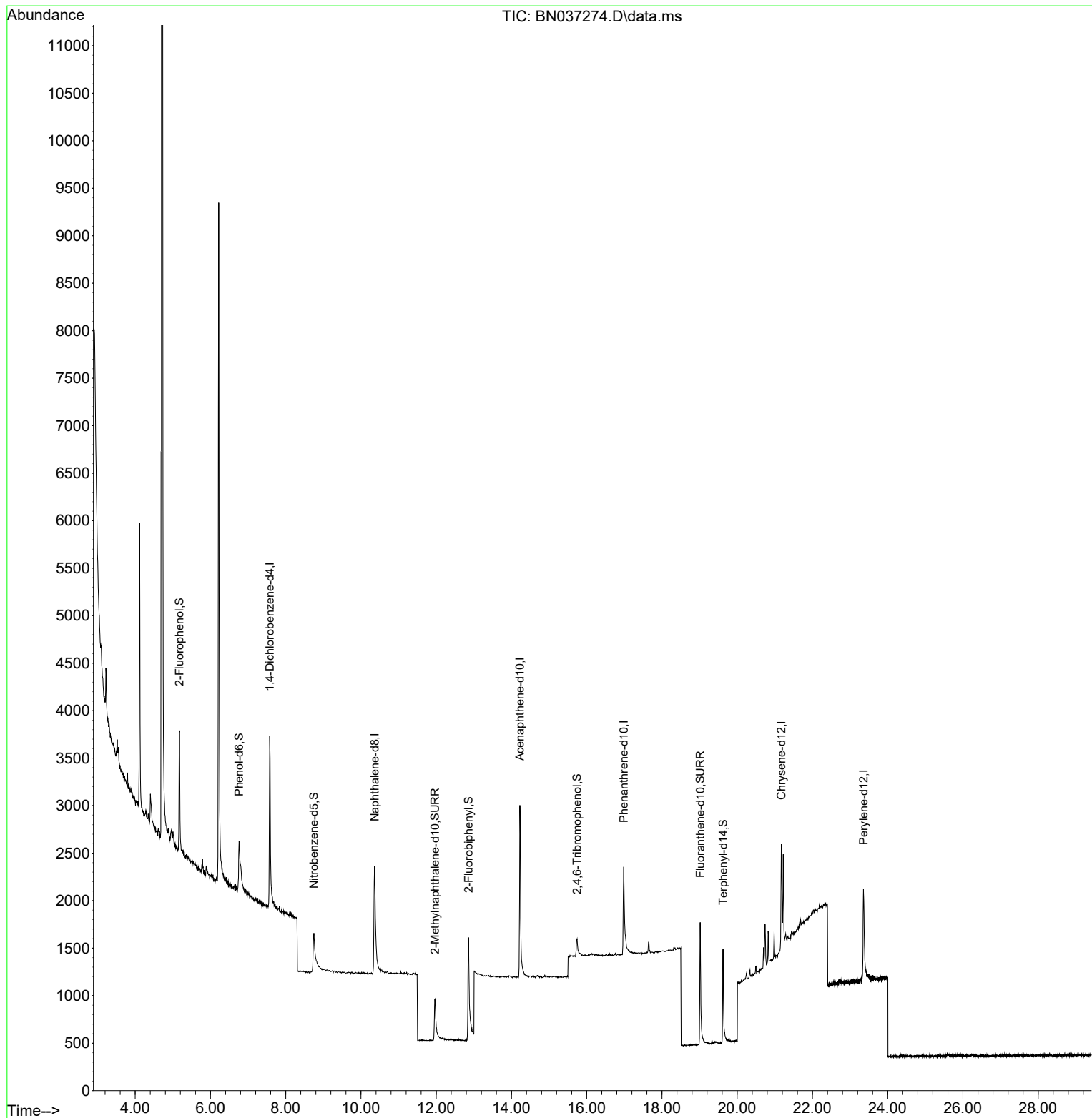
Target Compounds	Qvalue
------------------	--------

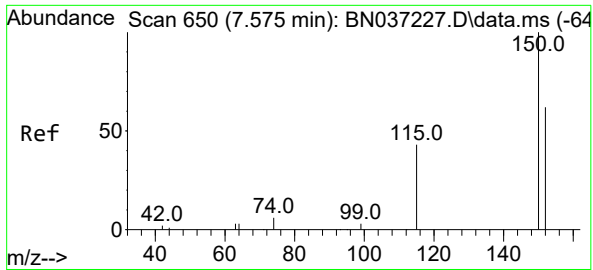
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037274.D
Acq On : 14 Jun 2025 23:07
Operator : RC/JU
Sample : PB168476BL
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168476BL

Quant Time: Jun 16 02:46:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

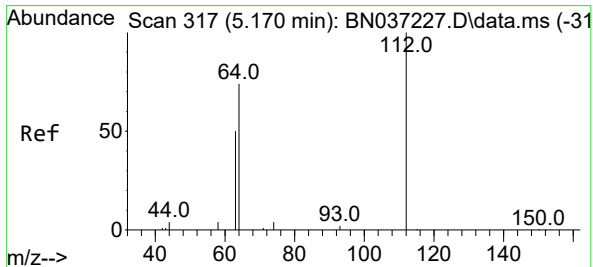
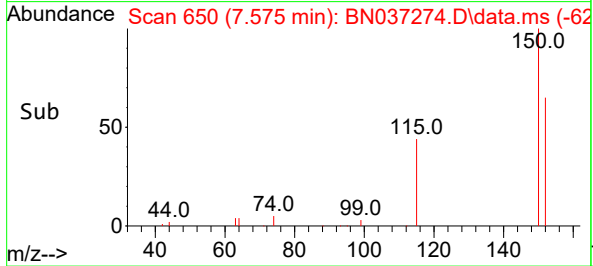
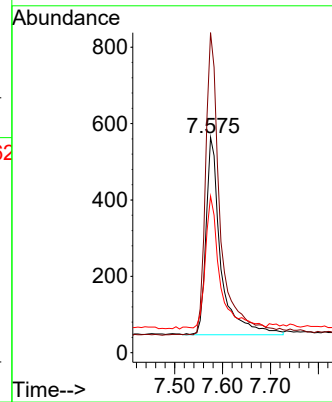
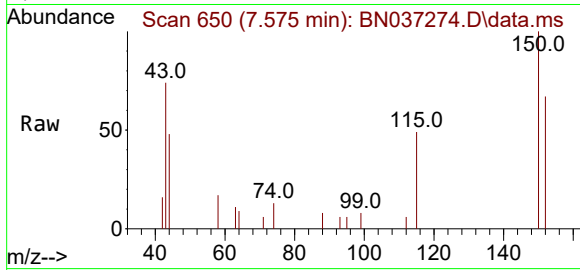




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

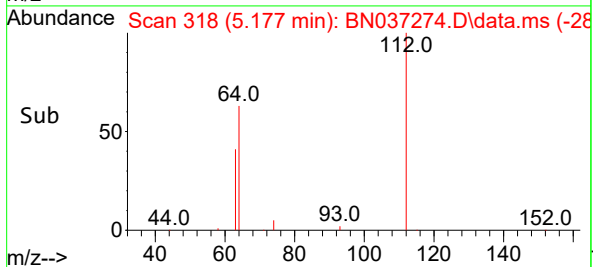
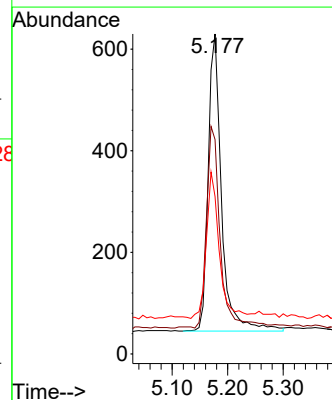
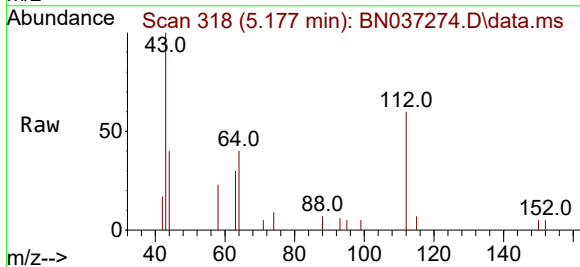
Instrument :
BNA_N
ClientSampleId :
PB168476BL

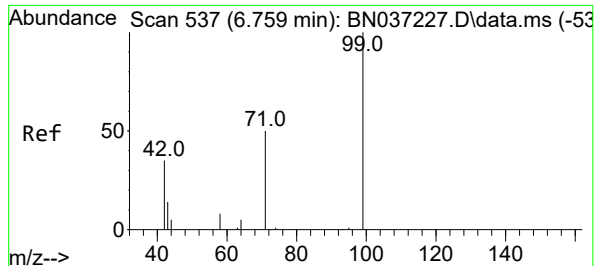
Tgt Ion:152 Resp: 1111
Ion Ratio Lower Upper
152 100
150 148.6 125.2 187.8
115 72.7 58.4 87.6



#4
2-Fluorophenol
Concen: 0.359 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

Tgt Ion:112 Resp: 979
Ion Ratio Lower Upper
112 100
64 68.0 57.2 85.8
63 47.5 39.8 59.6

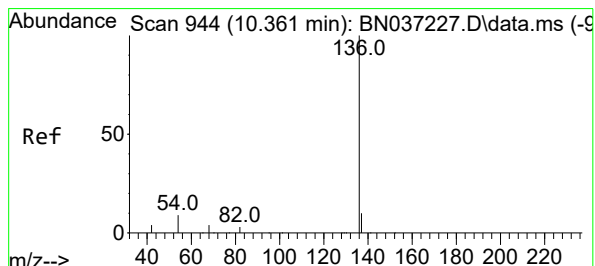
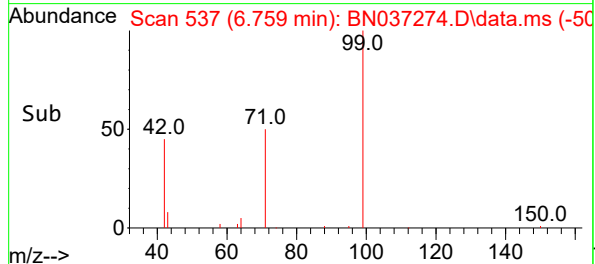
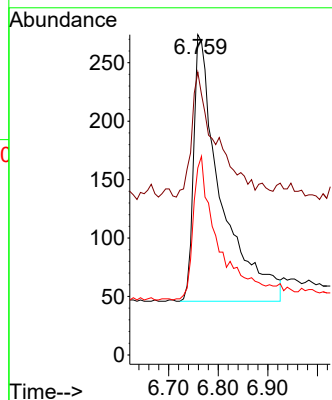
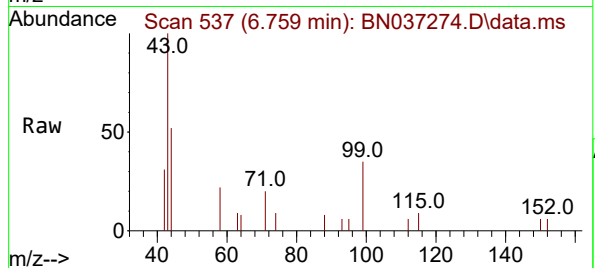




#5
Phenol-d6
Concen: 0.300 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

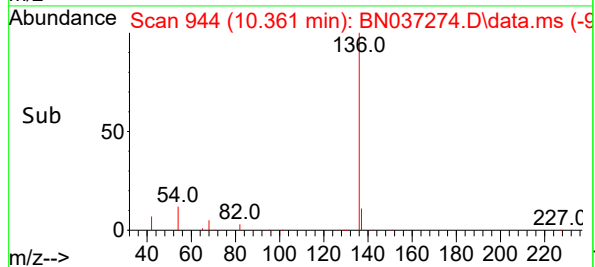
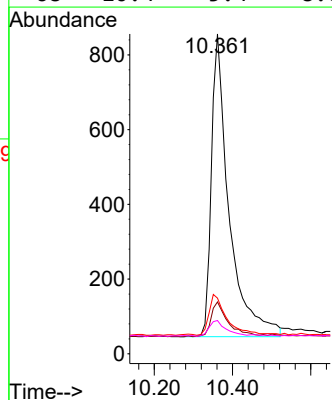
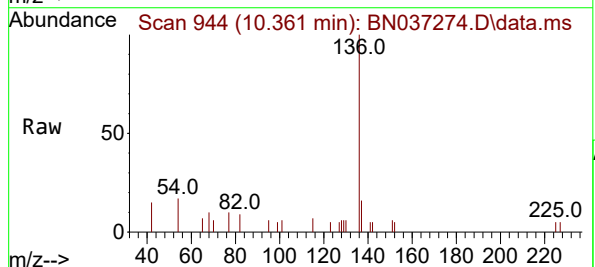
Instrument :
BNA_N
ClientSampleId :
PB168476BL

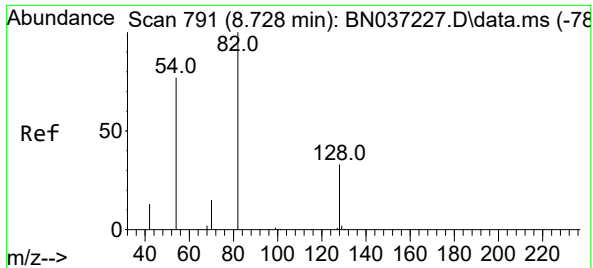
Tgt Ion	Ratio	Lower	Upper
99	100		
42	42.6	36.2	54.4
71	52.8	42.4	63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

Tgt Ion	Ratio	Lower	Upper
136	100		
137	16.2	10.6	15.8#
54	17.4	9.2	13.8#
68	10.4	5.4	8.0#

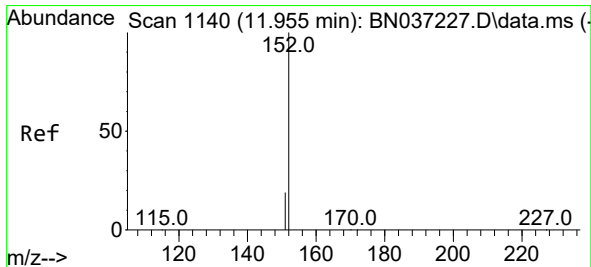
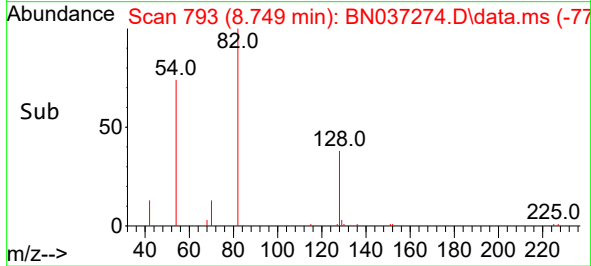
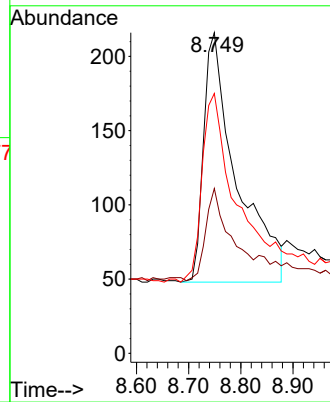
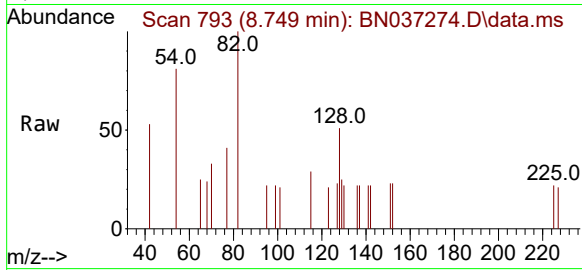




#8
Nitrobenzene-d5
Concen: 0.294 ng
RT: 8.749 min Scan# 791
Delta R.T. 0.021 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

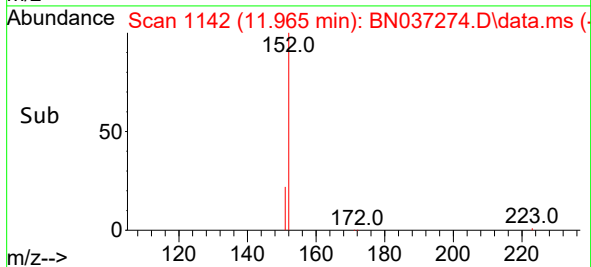
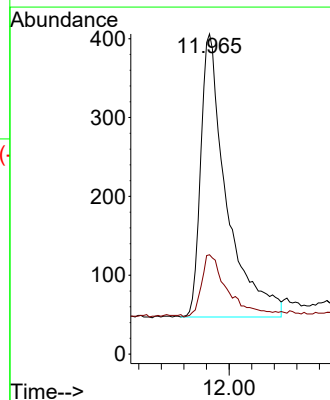
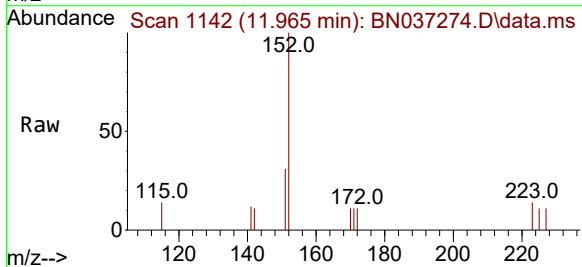
Instrument :
BNA_N
ClientSampleId :
PB168476BL

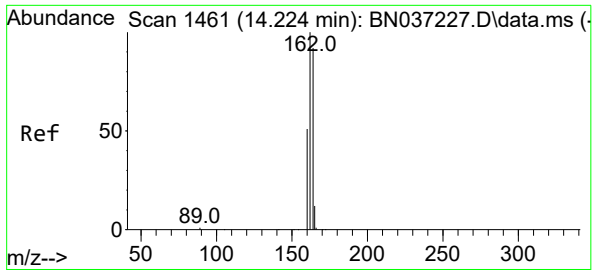
Tgt Ion: 82 Resp: 737
Ion Ratio Lower Upper
82 100
128 51.4 31.2 46.8#
54 81.0 63.3 94.9



#11
2-Methylnaphthalene-d10
Concen: 0.334 ng
RT: 11.965 min Scan# 1142
Delta R.T. 0.010 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

Tgt Ion: 152 Resp: 1137
Ion Ratio Lower Upper
152 100
151 22.5 17.9 26.9

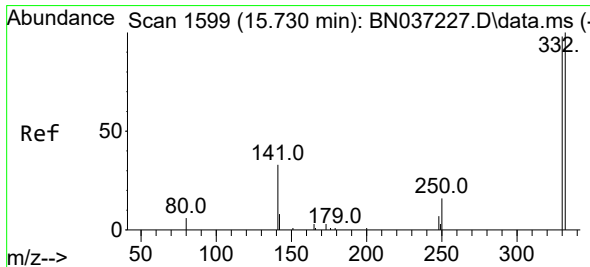
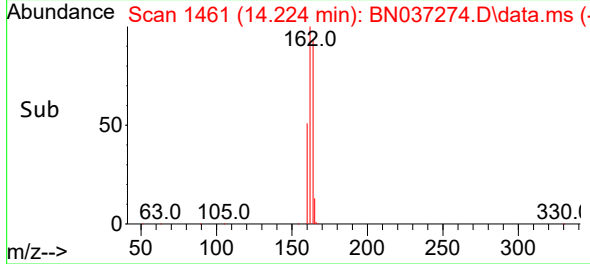
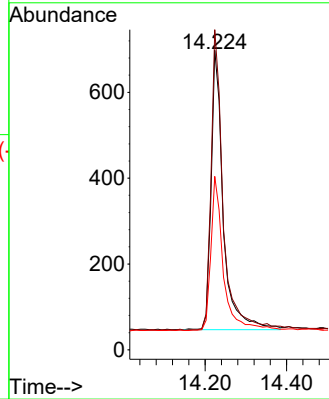
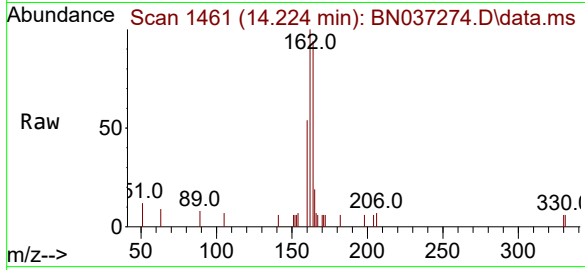




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

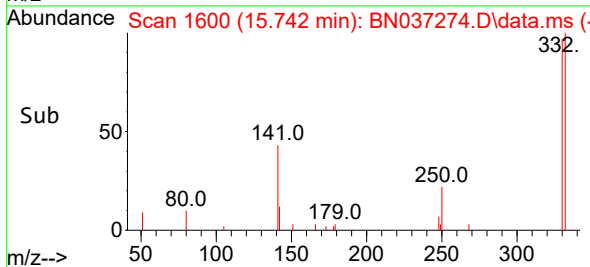
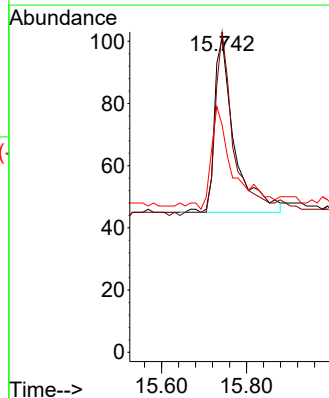
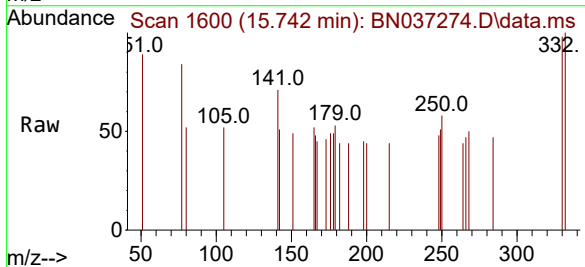
Instrument :
BNA_N
ClientSampleId :
PB168476BL

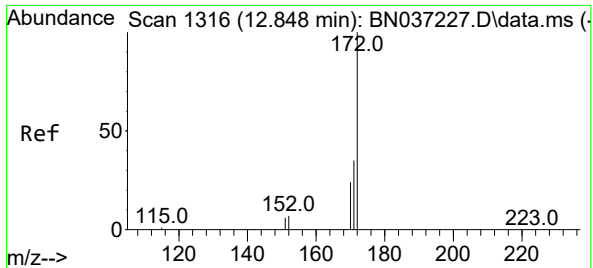
Tgt Ion:164 Resp: 1345
Ion Ratio Lower Upper
164 100
162 106.9 86.7 130.1
160 57.9 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.326 ng
RT: 15.742 min Scan# 1600
Delta R.T. 0.012 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

Tgt Ion:330 Resp: 182
Ion Ratio Lower Upper
330 100
332 92.3 74.9 112.3
141 59.9 45.1 67.7

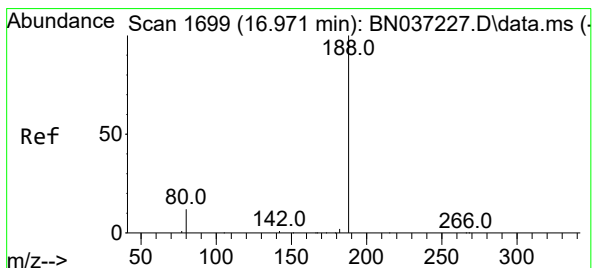
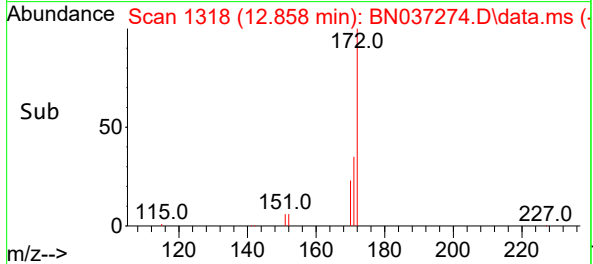
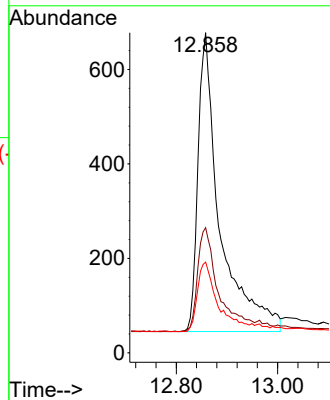
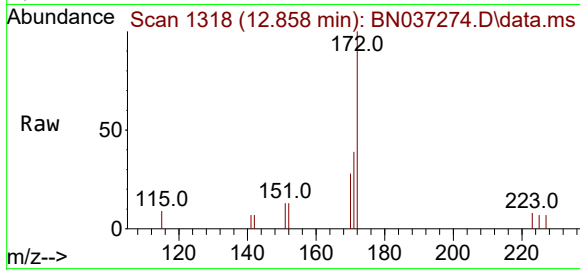




#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.858 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

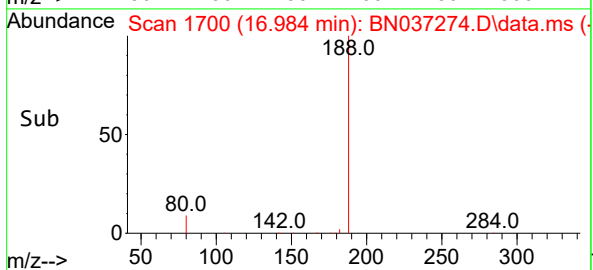
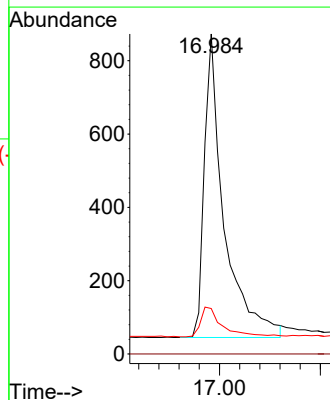
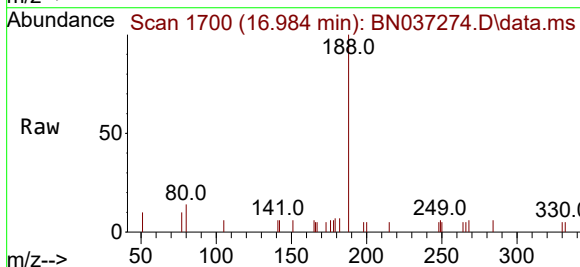
Instrument :
BNA_N
ClientSampleId :
PB168476BL

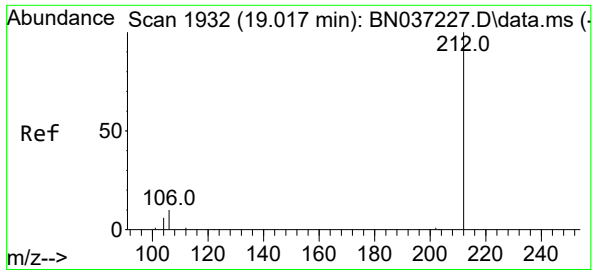
Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.1	29.8	44.8
170	28.3	21.1	31.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.012 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.2	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.361 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037274.D

Acq: 14 Jun 2025 23:07

Instrument :

BNA_N

ClientSampleId :

PB168476BL

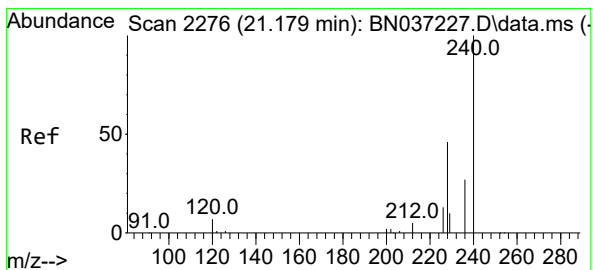
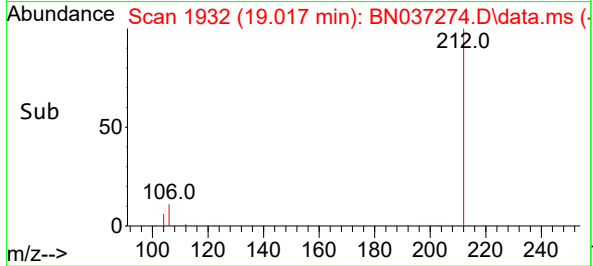
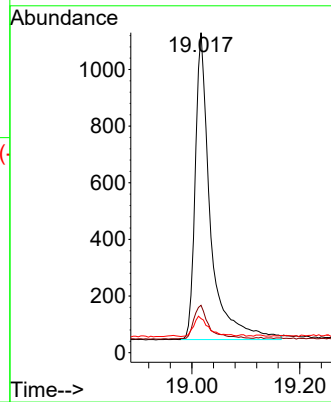
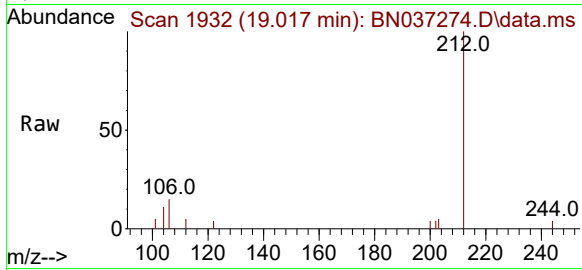
Tgt Ion:212 Resp: 2116

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 6.6 5.7 8.5



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 2275

Delta R.T. -0.009 min

Lab File: BN037274.D

Acq: 14 Jun 2025 23:07

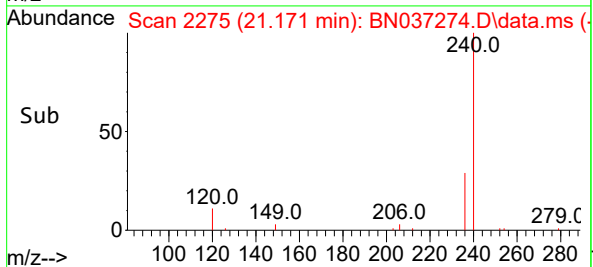
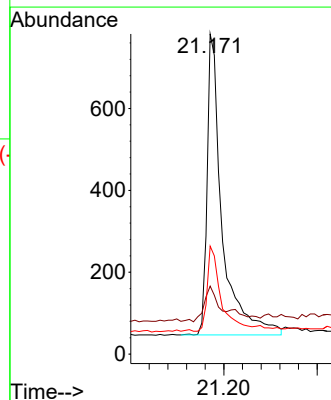
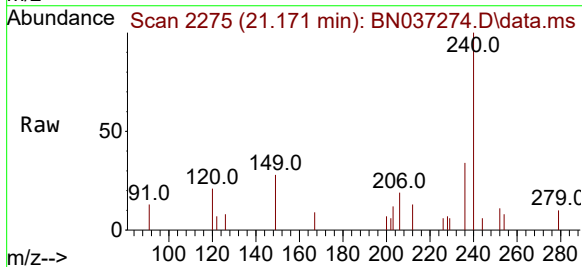
Tgt Ion:240 Resp: 1645

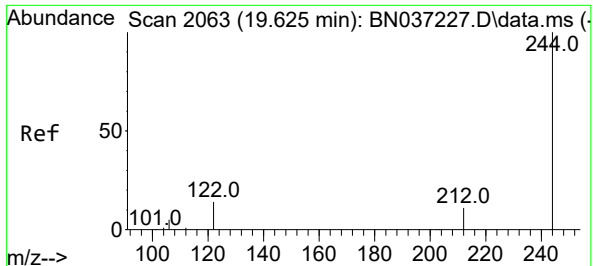
Ion Ratio Lower Upper

240 100

120 21.2 11.3 16.9#

236 33.8 24.4 36.6

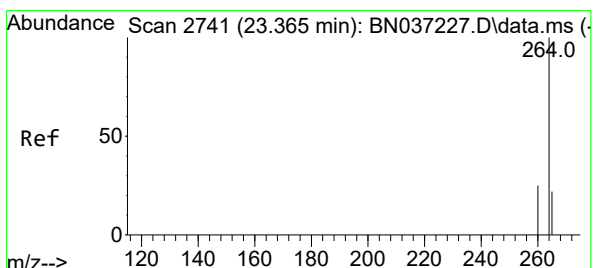
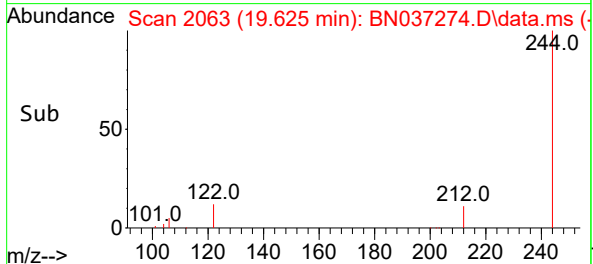
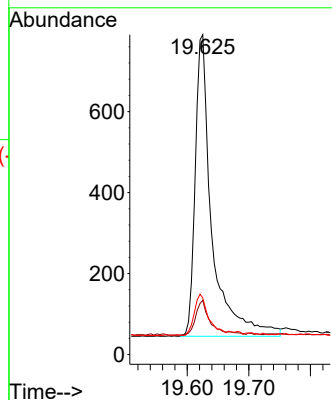
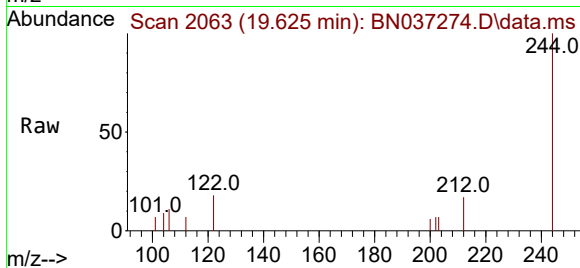




#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

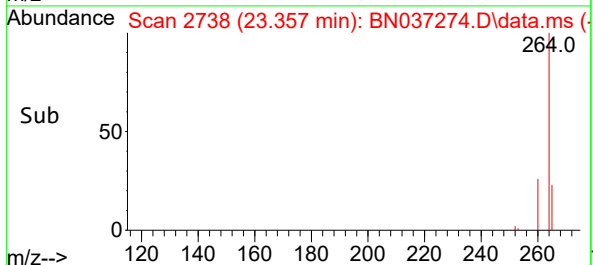
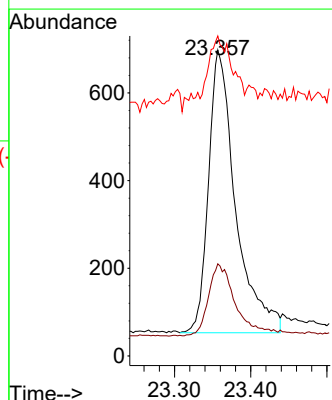
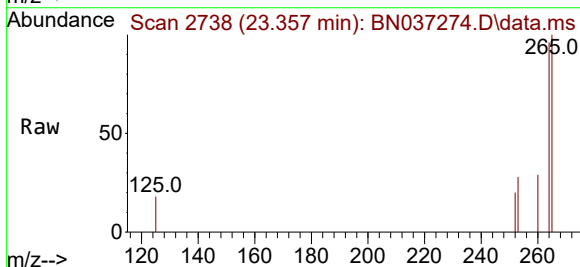
Instrument :
BNA_N
ClientSampleId :
PB168476BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	17.0	12.2	18.2
122	17.7	14.3	21.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. -0.009 min
Lab File: BN037274.D
Acq: 14 Jun 2025 23:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	30.1	22.8	34.2
265	104.6	66.4	99.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168476BS	SDG No.:	Q2316
Lab Sample ID:	PB168476BS	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
BN037280.D	1	06/13/25 11:00	06/15/25 02:42	PB168476

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	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1100	7.575				
1146-65-2	Naphthalene-d8	2640	10.351				
15067-26-2	Acenaphthene-d10	1350	14.224				
1517-22-2	Phenanthrene-d10	2250	16.971				
1719-03-5	Chrysene-d12	1530	21.171				
1520-96-3	Perylene-d12	1220	23.357				

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\BN061325\
 Data File : BN037280.D
 Acq On : 15 Jun 2025 02:42
 Operator : RC/JU
 Sample : PB168476BS
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168476BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 16 02:47:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1101	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2637	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1350	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2251	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1528	0.400	ng	0.00
35) Perylene-d12	23.357	264	1224	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	961	0.355	ng	0.00
5) Phenol-d6	6.759	99	1013	0.355	ng	0.00
8) Nitrobenzene-d5	8.728	82	979	0.376	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1523m	0.430	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	198	0.353	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	2195	0.387	ng	0.00
27) Fluoranthene-d10	19.012	212	1999	0.339	ng	0.00
31) Terphenyl-d14	19.621	244	1313	0.380	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.104	88	447	0.296	ng	# 1
3) n-Nitrosodimethylamine	3.415	42	1294	0.376	ng	# 99
6) bis(2-Chloroethyl)ether	7.012	93	958	0.375	ng	95
9) Naphthalene	10.404	128	2899	0.380	ng	99
10) Hexachlorobutadiene	10.693	225	744	0.401	ng	# 98
12) 2-Methylnaphthalene	12.026	142	1579	0.340	ng	98
16) Acenaphthylene	13.935	152	2642	0.399	ng	99
17) Acenaphthene	14.288	154	1561	0.366	ng	98
18) Fluorene	15.282	166	1981	0.361	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	205	0.463	ng	87
21) 4-Bromophenyl-phenylether	16.177	248	566	0.386	ng	89
22) Hexachlorobenzene	16.289	284	682	0.401	ng	98
23) Atrazine	16.463	200	212	0.162	ng	# 81
24) Pentachlorophenol	16.636	266	600	0.720	ng	97
25) Phenanthrene	17.009	178	2688	0.377	ng	99
26) Anthracene	17.108	178	2516	0.385	ng	98
28) Fluoranthene	19.040	202	2829	0.339	ng	99
30) Pyrene	19.403	202	2773	0.386	ng	99
32) Benzo(a)anthracene	21.153	228	1878	0.364	ng	99
33) Chrysene	21.207	228	2594	0.404	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	1471	0.383	ng	99
36) Indeno(1,2,3-cd)pyrene	25.547	276	2405	0.487	ng	97
37) Benzo(b)fluoranthene	22.702	252	2018	0.451	ng	96
38) Benzo(k)fluoranthene	22.746	252	2286	0.442	ng	96
39) Benzo(a)pyrene	23.260	252	1793	0.445	ng	94
40) Dibenzo(a,h)anthracene	25.561	278	1876	0.500	ng	95
41) Benzo(g,h,i)perylene	26.210	276	2136	0.467	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037280.D
Acq On : 15 Jun 2025 02:42
Operator : RC/JU
Sample : PB168476BS
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB168476BS

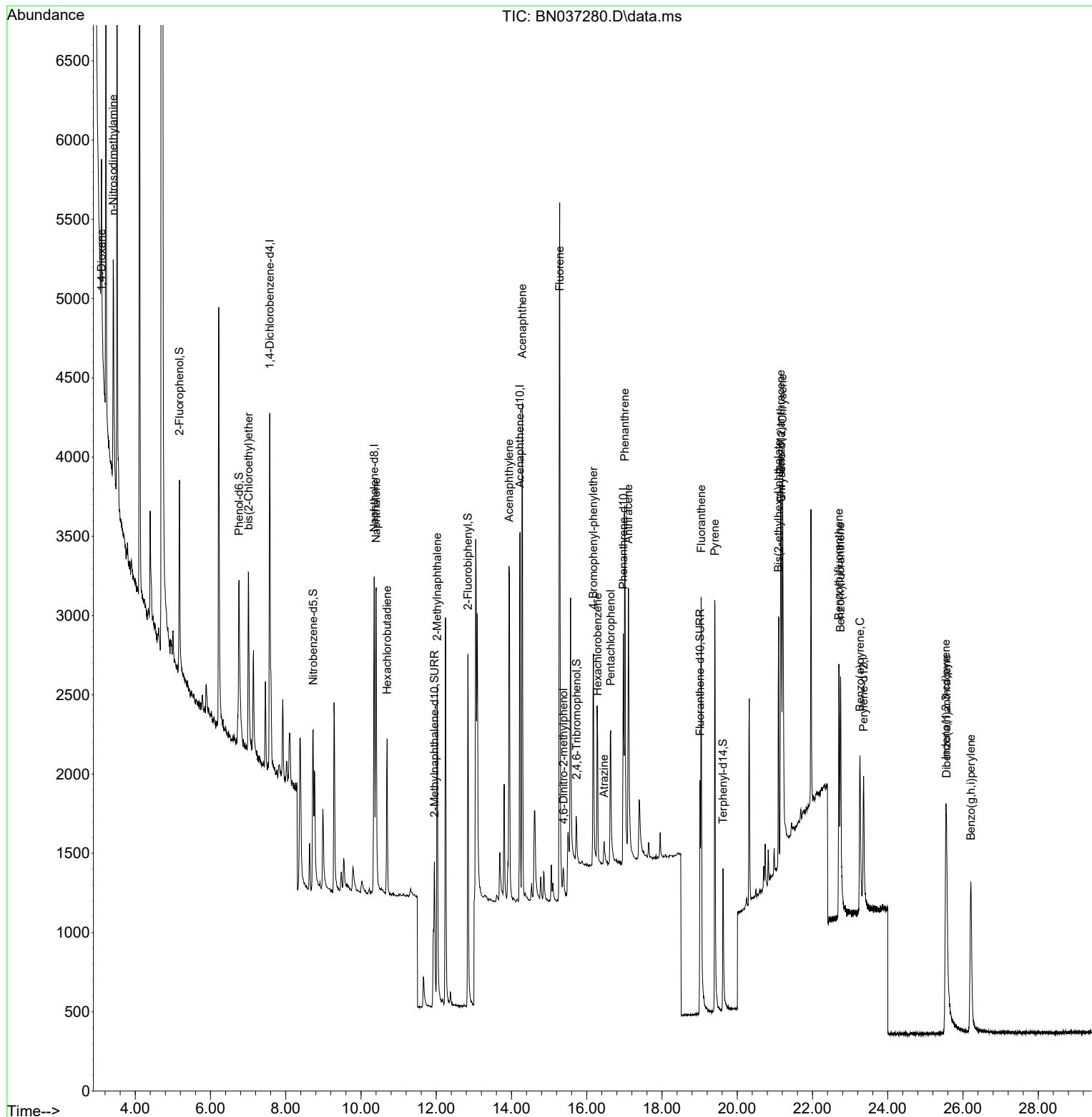
Manual Integrations

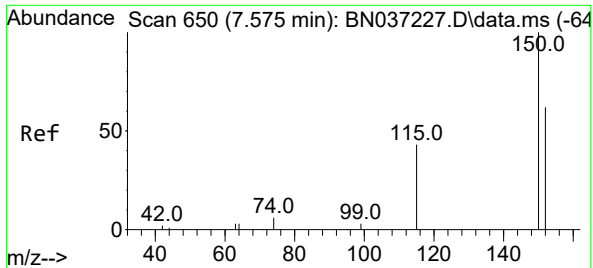
APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

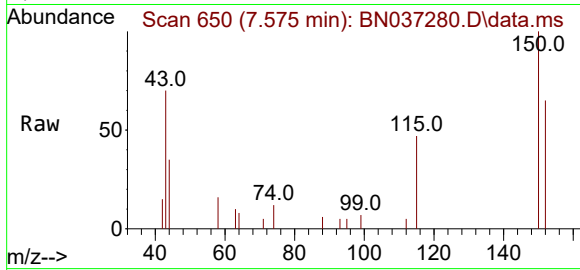
Quant Time: Jun 16 02:47:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

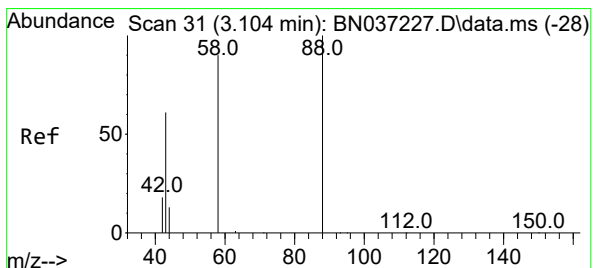
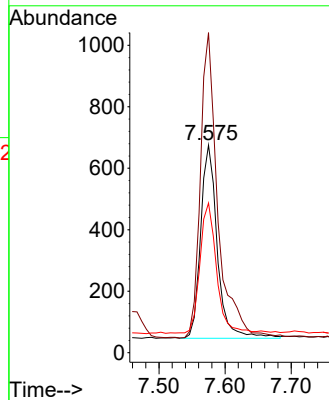
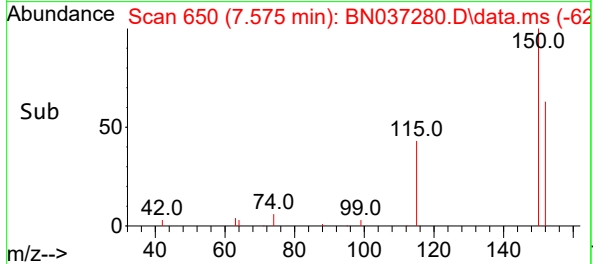
Instrument :
BNA_N
ClientSampleId :
PB168476BS



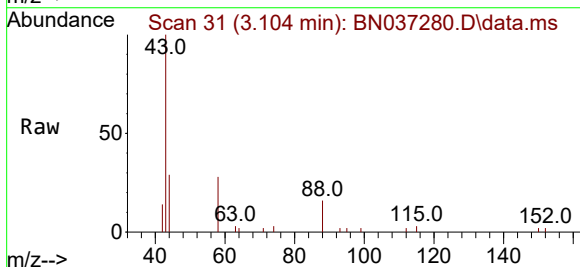
Tgt Ion: 152 Resp: 110
Ion Ratio Lower Upper
152 100
150 154.2 125.2 187.8
115 72.1 58.4 87.6

Manual Integrations
APPROVED

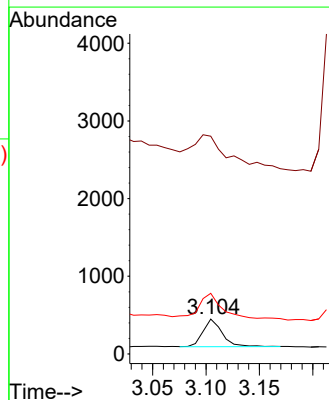
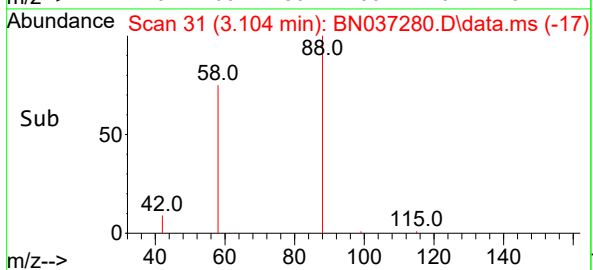
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



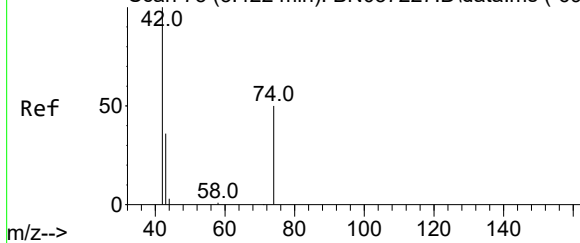
#2
1,4-Dioxane
Concen: 0.296 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42



Tgt Ion: 88 Resp: 447
Ion Ratio Lower Upper
88 100
43 243.8 52.6 79.0#
58 133.8 73.5 110.3#



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.376 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

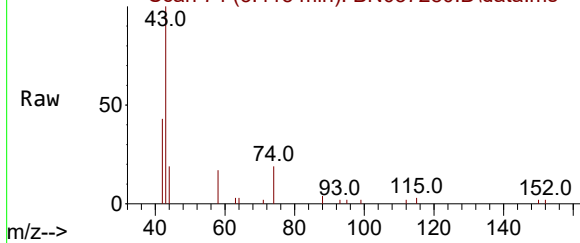
Instrument :

BNA_N

ClientSampleId :

PB168476BS

Abundance Scan 74 (3.415 min): BN037280.D\data.ms



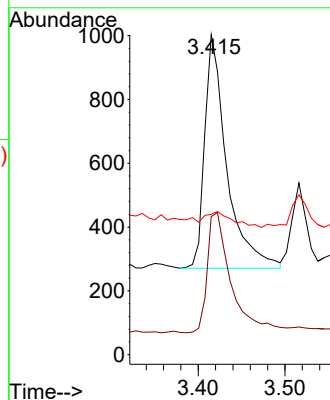
Tgt Ion:	42	Resp:	129
Ion	Ratio	Lower	Upper
42	100		
74	55.5	44.6	66.8
44	8.1	3.5	5.3

Manual Integrations

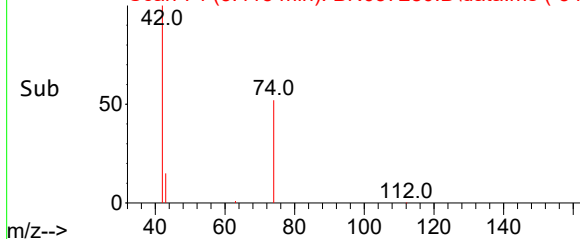
APPROVED

Reviewed By :Anahy Claudio 06/16/2025

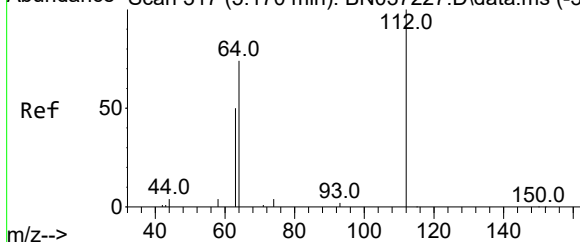
Supervised By :Jagrut Upadhyay 06/16/2025



Abundance Scan 74 (3.415 min): BN037280.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.355 ng

RT: 5.177 min Scan# 318

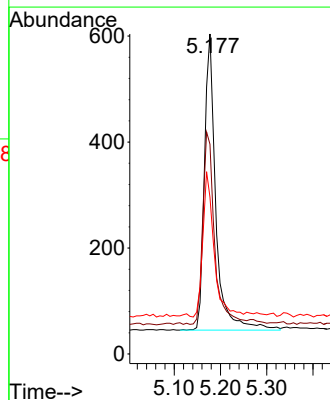
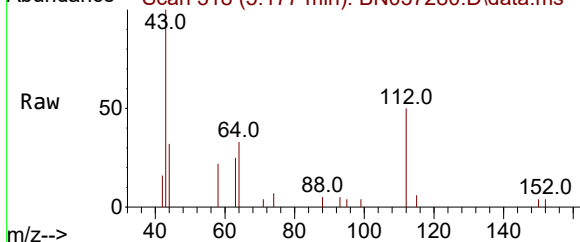
Delta R.T. 0.007 min

Lab File: BN037280.D

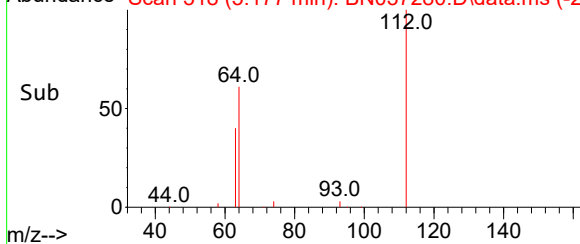
Acq: 15 Jun 2025 02:42

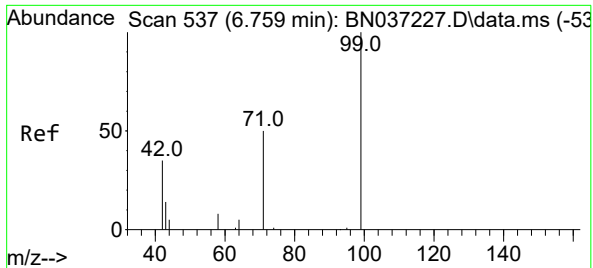
Tgt Ion:	112	Resp:	961
Ion	Ratio	Lower	Upper
112	100		
64	66.6	57.2	85.8
63	48.0	39.8	59.6

Abundance Scan 318 (5.177 min): BN037280.D\data.ms



Abundance Scan 318 (5.177 min): BN037280.D\data.ms (-28)





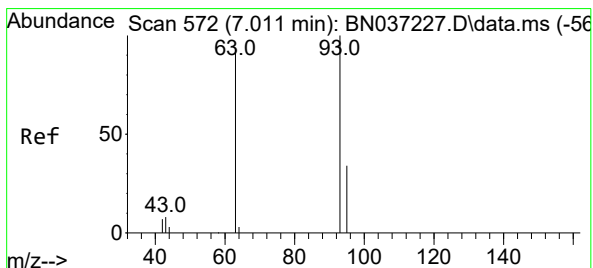
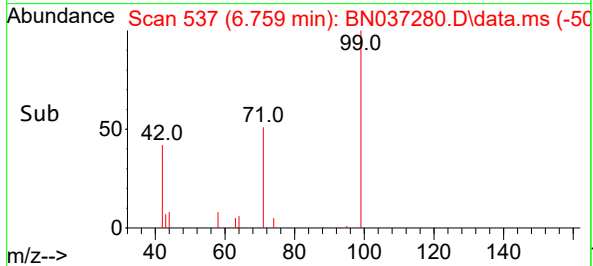
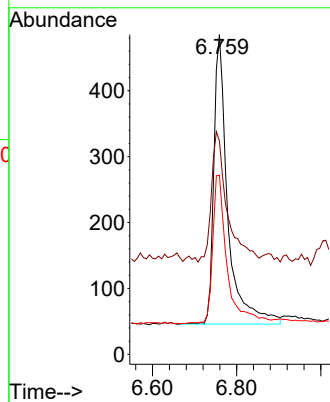
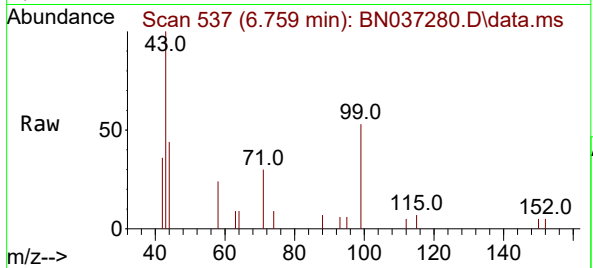
#5
Phenol-d6
Concen: 0.355 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Instrument :
BNA_N
ClientSampleId :
PB168476BS

Tgt Ion: 99 Resp: 101
Ion Ratio Lower Upper
99 100
42 50.8 36.2 54.4
71 52.3 42.4 63.6

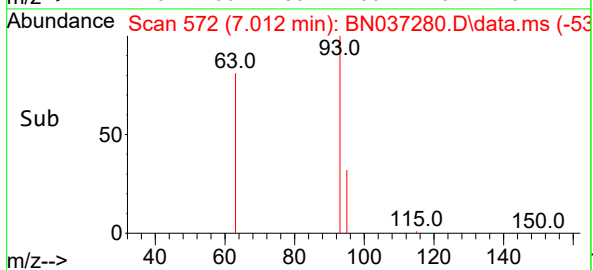
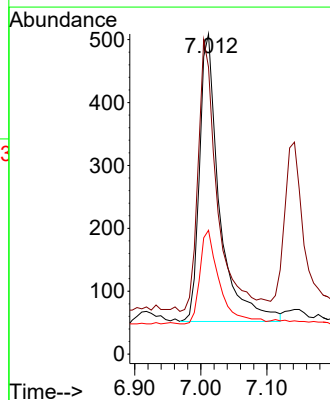
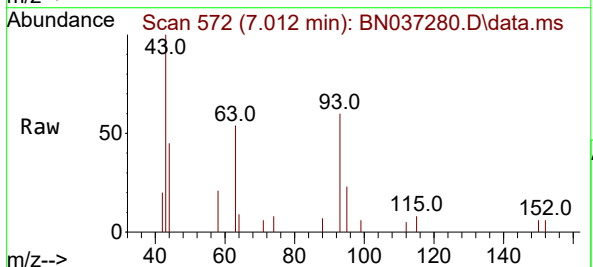
Manual Integrations
APPROVED

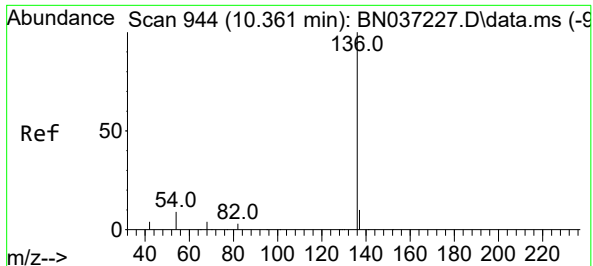
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

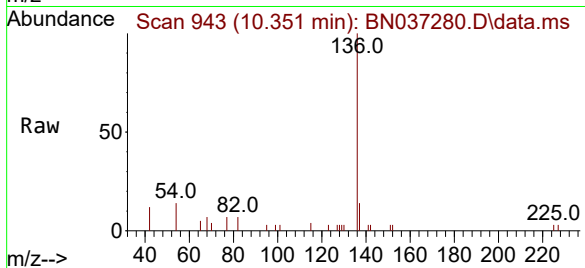
Tgt Ion: 93 Resp: 958
Ion Ratio Lower Upper
93 100
63 89.5 75.2 112.8
95 32.3 28.3 42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

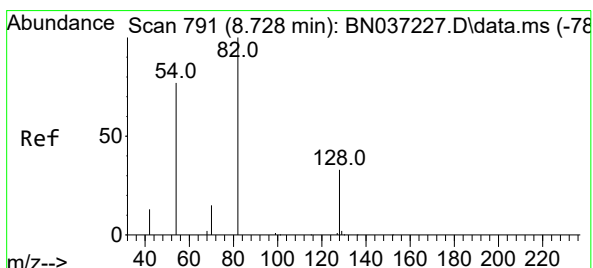
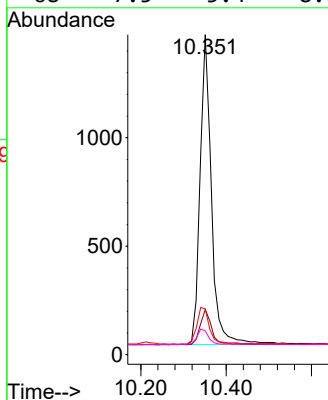
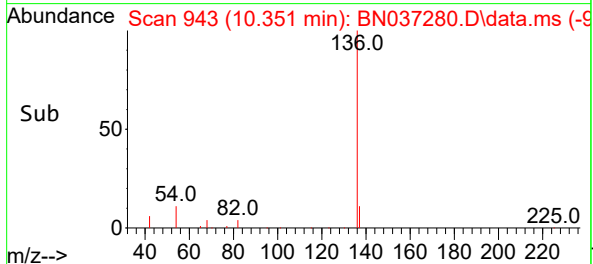
Instrument :
BNA_N
ClientSampleId :
PB168476BS



Tgt Ion: 136 Resp: 263
Ion Ratio Lower Upper
136 100
137 14.1 10.6 15.8
54 14.3 9.2 13.8
68 7.5 5.4 8.0

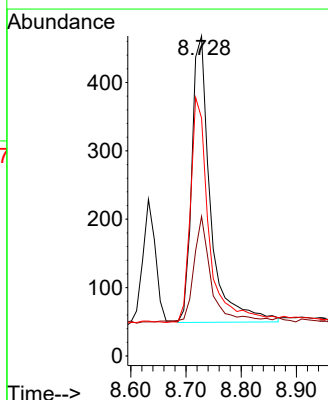
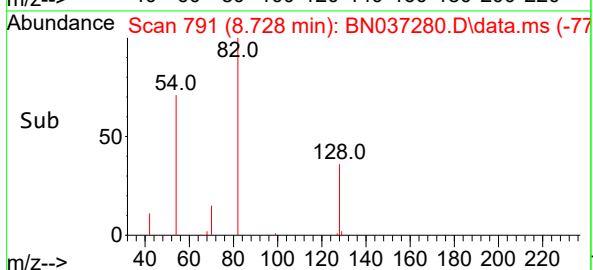
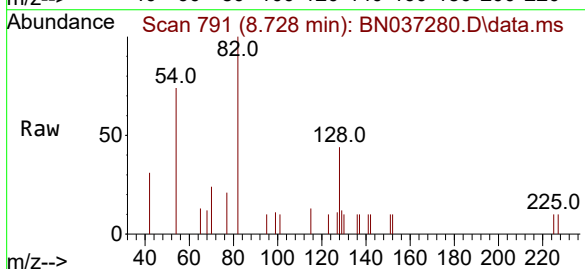
Manual Integrations
APPROVED

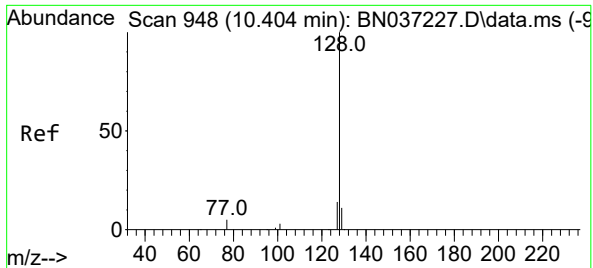
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.376 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion: 82 Resp: 979
Ion Ratio Lower Upper
82 100
128 43.6 31.2 46.8
54 74.4 63.3 94.9





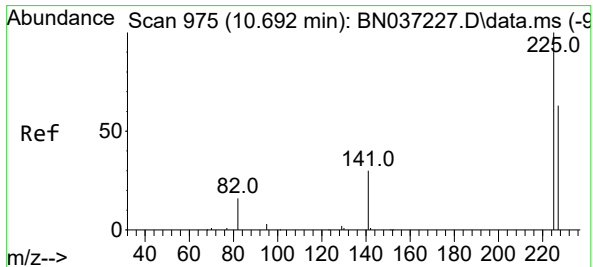
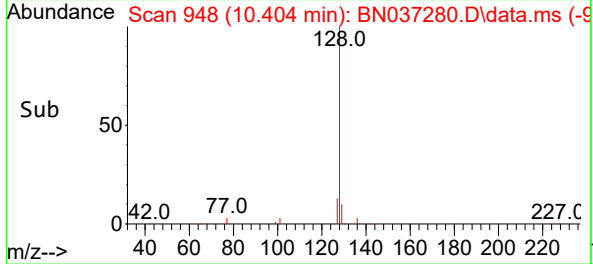
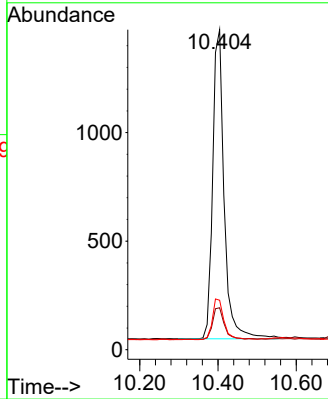
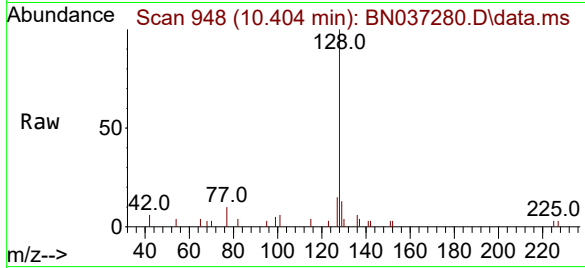
#9
Naphthalene
Concen: 0.380 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Instrument :
BNA_N
ClientSampleId :
PB168476BS

Tgt Ion:128 Resp: 2895
Ion Ratio Lower Upper
128 100
129 13.1 10.7 16.1
127 15.5 12.6 19.0

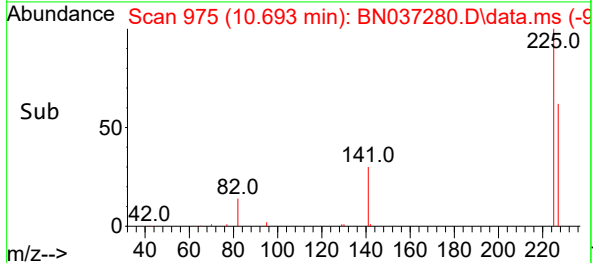
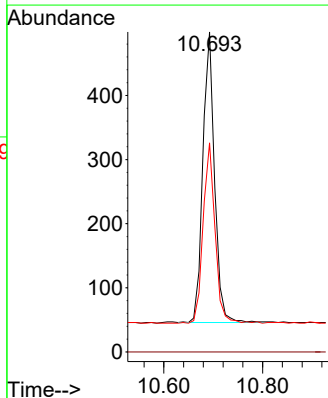
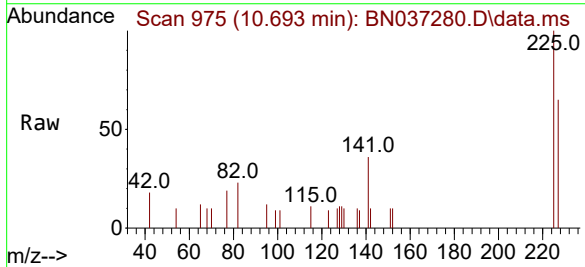
Manual Integrations
APPROVED

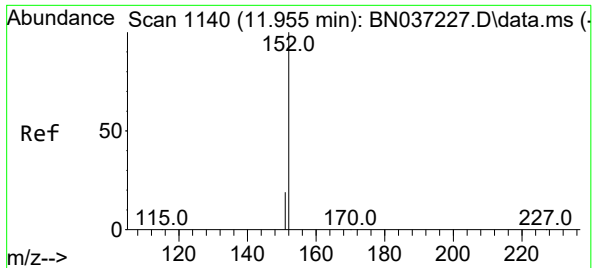
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.401 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

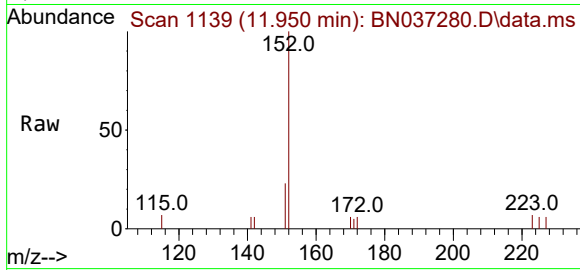
Tgt Ion:225 Resp: 744
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 49.2 73.8





#11
2-Methylnaphthalene-d10
Concen: 0.430 ng m
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

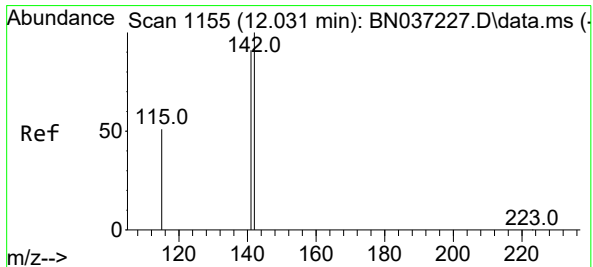
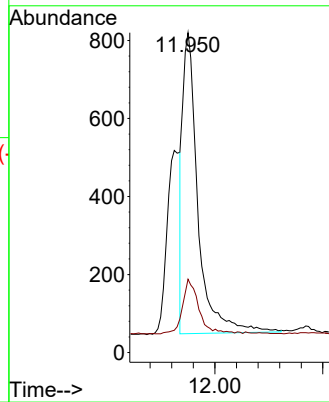
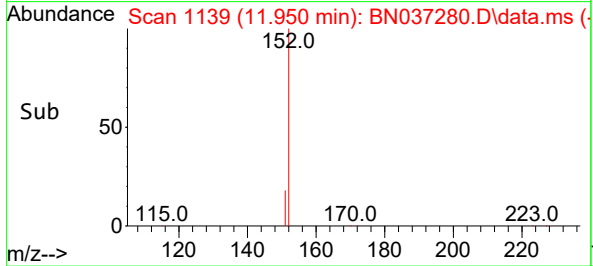
Instrument :
BNA_N
ClientSampleId :
PB168476BS



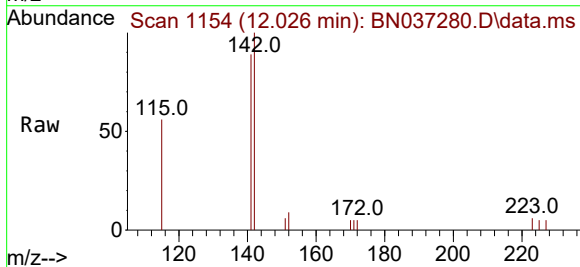
Tgt Ion:152 Resp: 152
Ion Ratio Lower Upper
152 100
151 19.2 17.9 26.9

Manual Integrations
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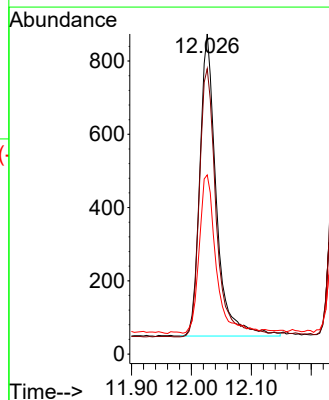
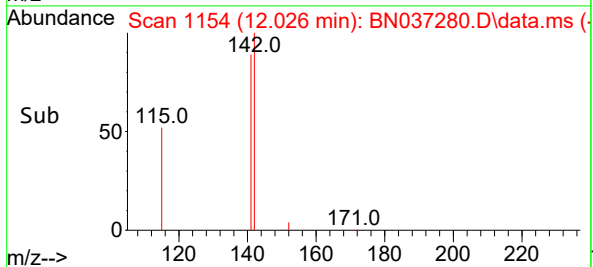
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

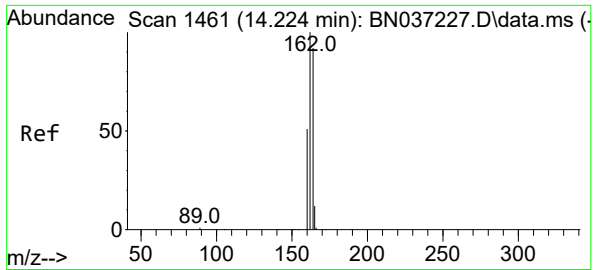


#12
2-Methylnaphthalene
Concen: 0.340 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42



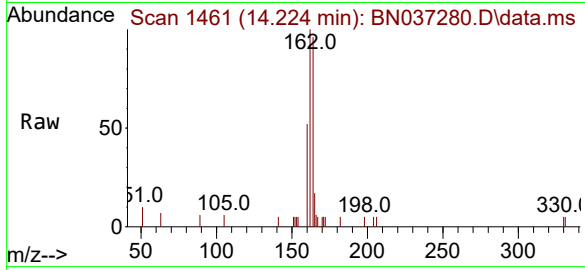
Tgt Ion:142 Resp: 1579
Ion Ratio Lower Upper
142 100
141 89.1 73.0 109.6
115 55.9 43.3 64.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

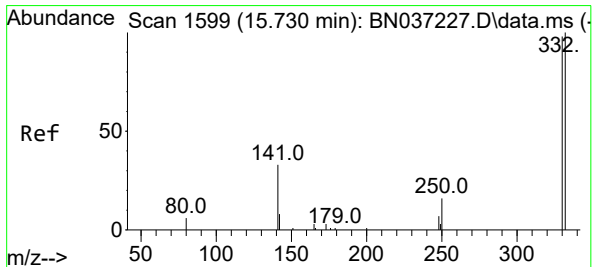
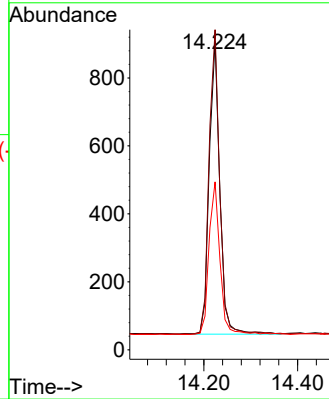
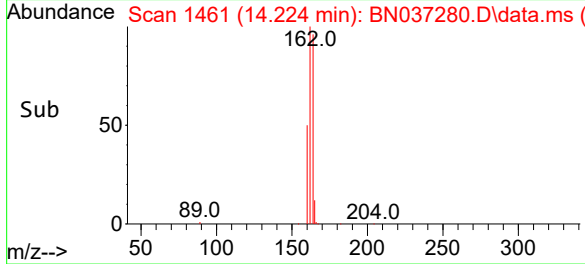
Instrument :
BNA_N
ClientSampleId :
PB168476BS



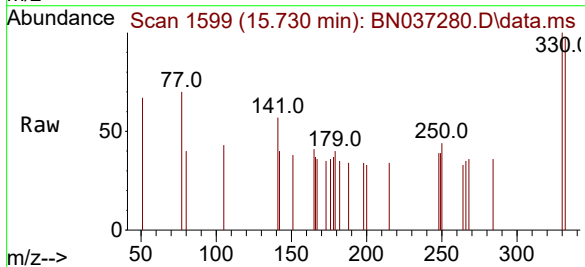
Tgt Ion:164 Resp: 1350
Ion Ratio Lower Upper
164 100
162 103.9 86.7 130.1
160 54.5 45.8 68.6

Manual Integrations
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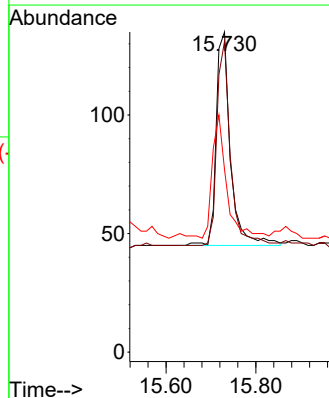
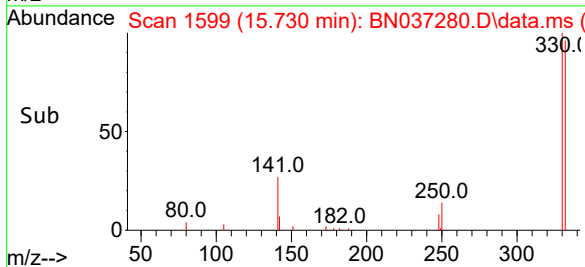
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

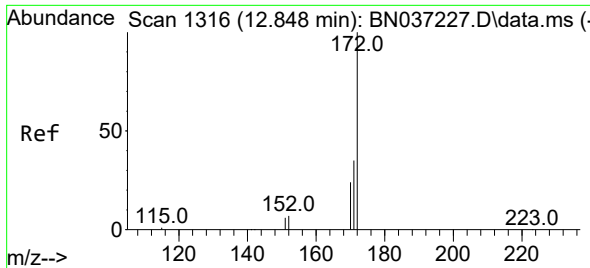


#14
2,4,6-Tribromophenol
Concen: 0.353 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42



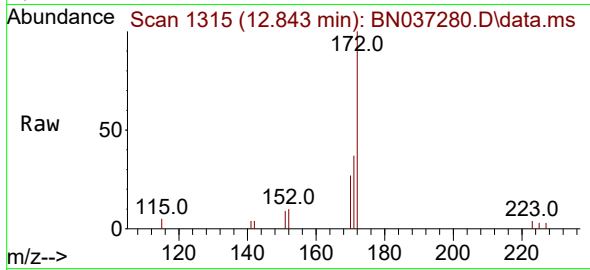
Tgt Ion:330 Resp: 198
Ion Ratio Lower Upper
330 100
332 90.9 74.9 112.3
141 53.5 45.1 67.7





#15
2-Fluorobiphenyl
Concen: 0.387 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

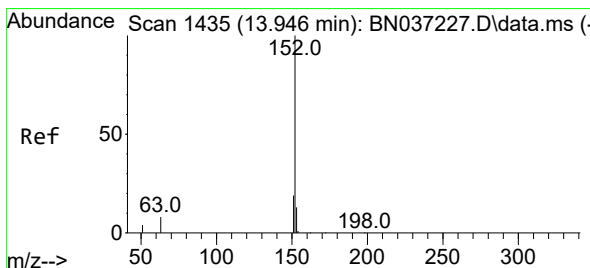
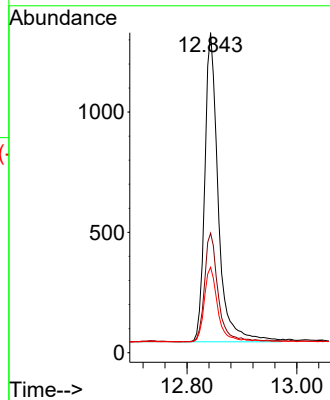
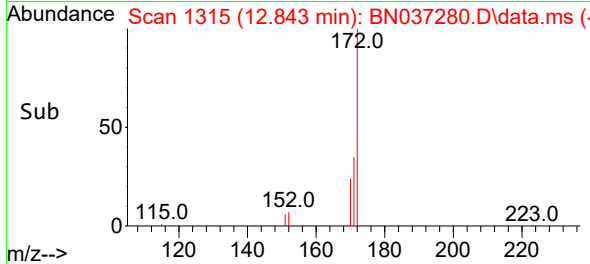
Instrument :
BNA_N
ClientSampleId :
PB168476BS



Tgt Ion:172 Resp: 219
Ion Ratio Lower Upper
172 100
171 37.4 29.8 44.8
170 26.7 21.1 31.7

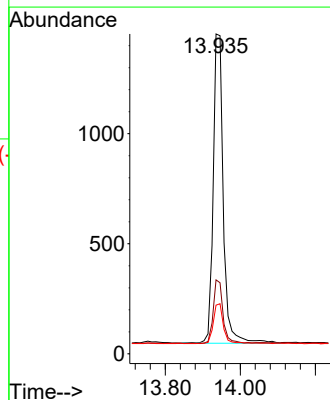
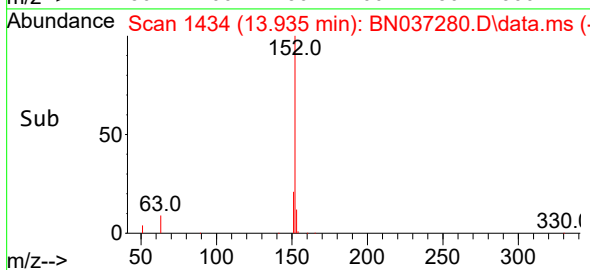
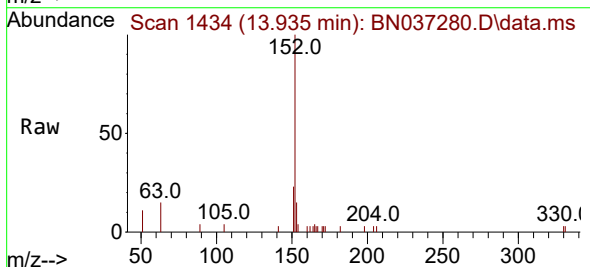
Manual Integrations
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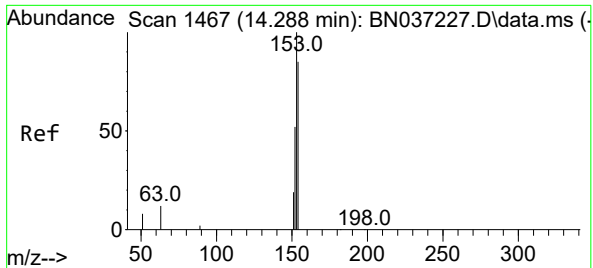
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#16
Acenaphthylene
Concen: 0.399 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.010 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

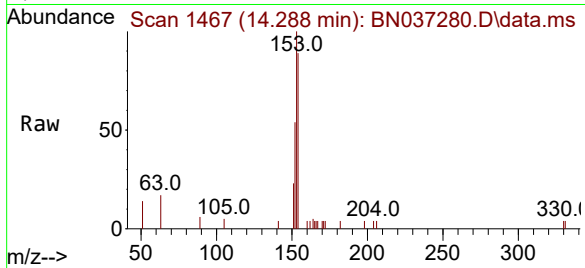
Tgt Ion:152 Resp: 2642
Ion Ratio Lower Upper
152 100
151 20.0 15.7 23.5
153 12.8 10.7 16.1





#17
Acenaphthene
Concen: 0.366 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

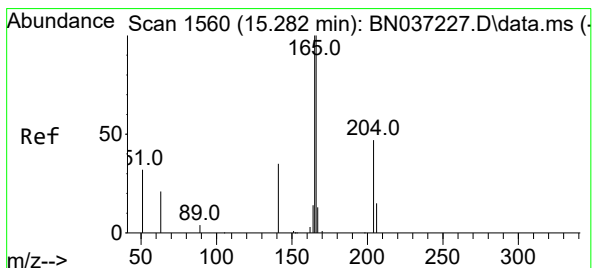
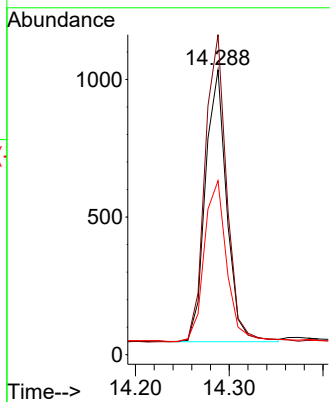
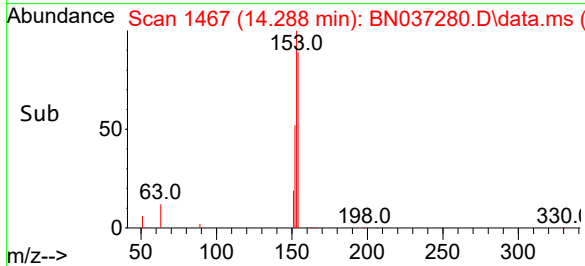
Instrument :
BNA_N
ClientSampleId :
PB168476BS



Tgt Ion:154 Resp: 156
Ion Ratio Lower Upper
154 100
153 115.1 94.6 141.8
152 63.2 49.6 74.4

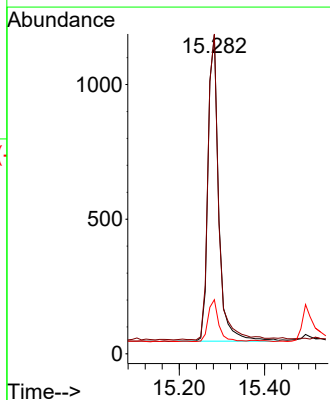
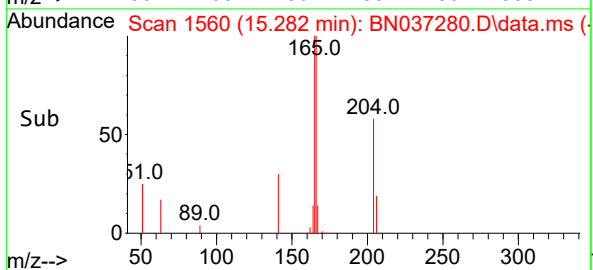
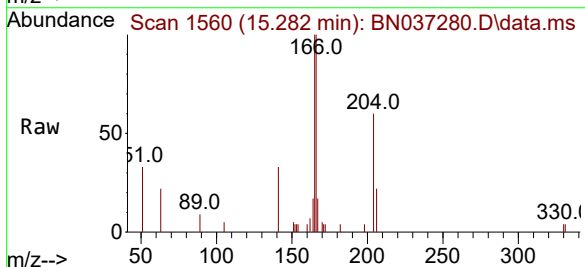
Manual Integrations
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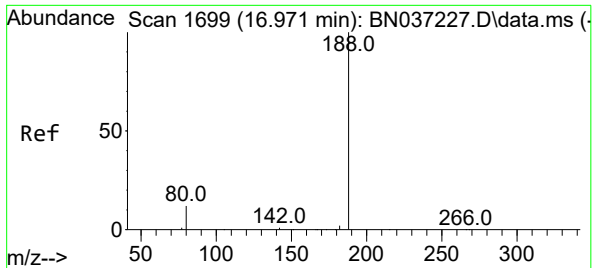
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#18
Fluorene
Concen: 0.361 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion:166 Resp: 1981
Ion Ratio Lower Upper
166 100
165 99.1 79.8 119.6
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

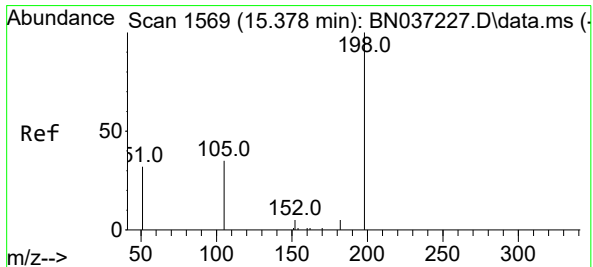
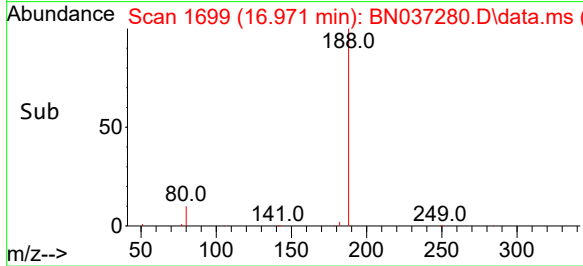
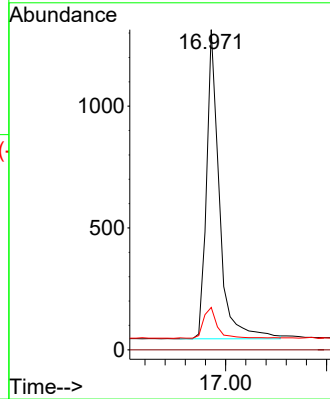
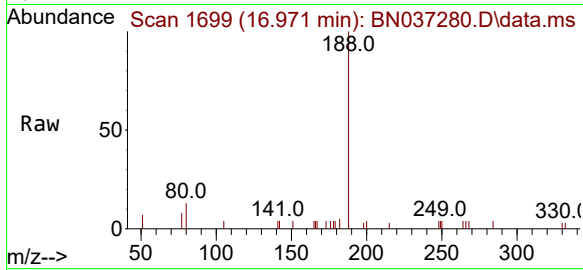
ClientSampleId :

PB168476BS

Tgt Ion:	188	Resp:	225
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.2	12.2	18.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.463 ng

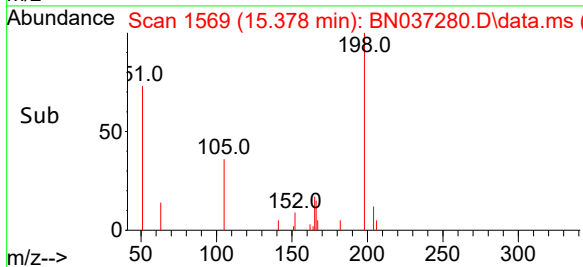
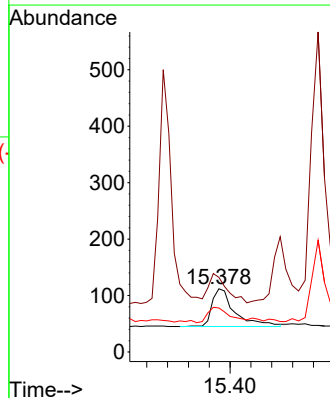
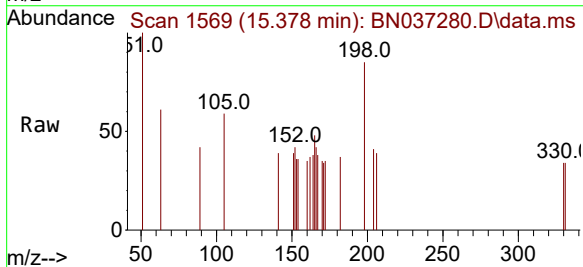
RT: 15.378 min Scan# 1569

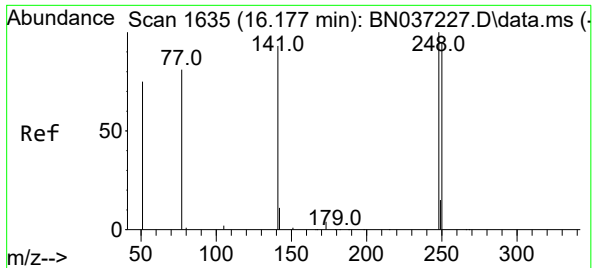
Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

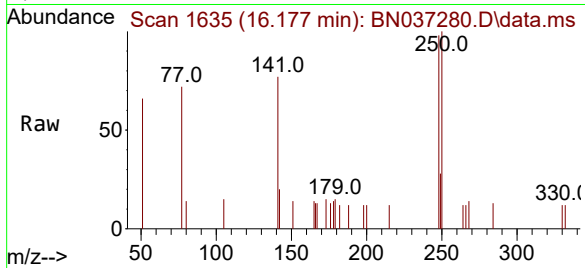
Tgt Ion:	198	Resp:	205
Ion Ratio	Lower	Upper	
198	100		
51	117.9	111.2	166.8
105	69.6	54.0	81.0





#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

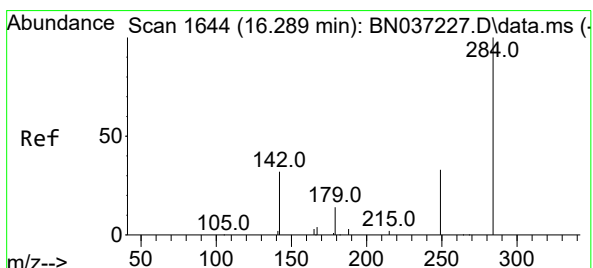
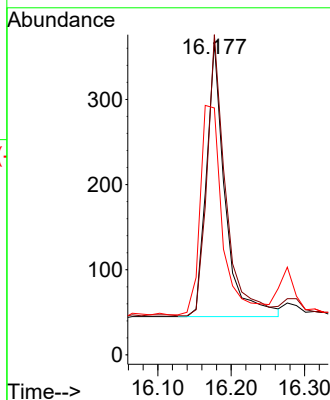
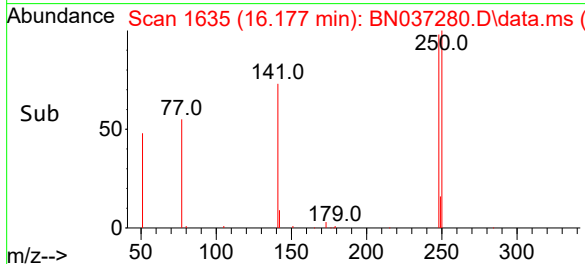
Instrument :
BNA_N
ClientSampleId :
PB168476BS



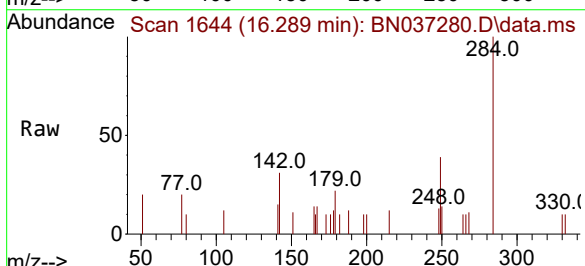
Tgt Ion:248 Resp: 560
Ion Ratio Lower Upper
248 100
250 102.5 76.8 115.2
141 79.0 75.6 113.4

Manual Integrations
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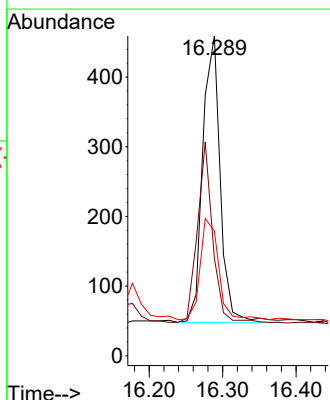
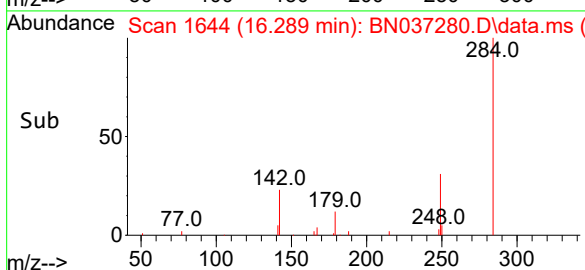
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

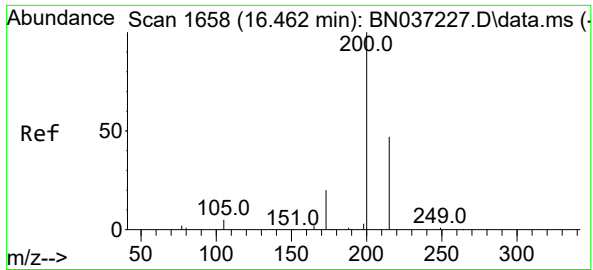


#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42



Tgt Ion:284 Resp: 682
Ion Ratio Lower Upper
284 100
142 55.4 43.8 65.6
249 37.1 28.4 42.6





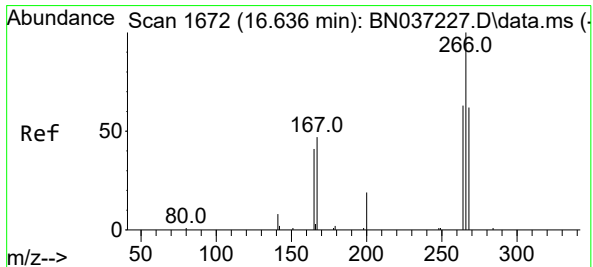
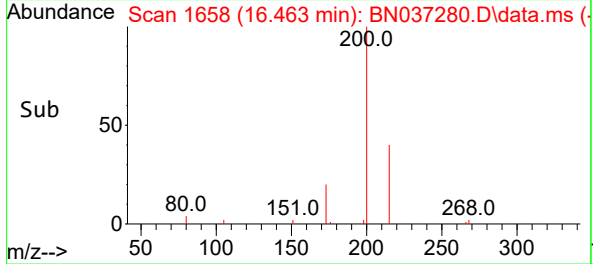
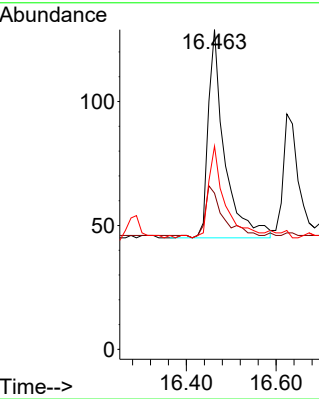
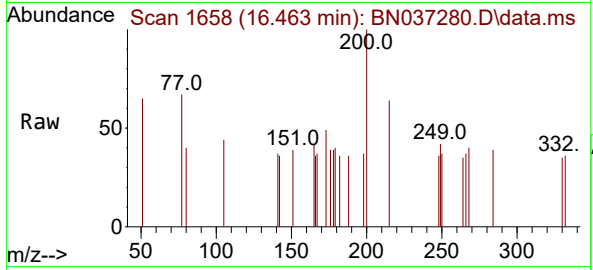
#23
Atrazine
Concen: 0.162 ng
RT: 16.463 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Instrument :
BNA_N
ClientSampleId :
PB168476BS

Tgt Ion:200 Resp: 212
Ion Ratio Lower Upper
200 100
173 48.8 25.1 37.7
215 63.6 43.7 65.5

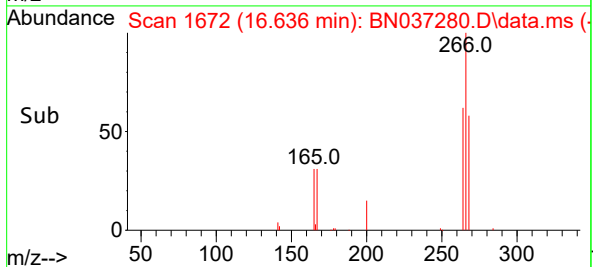
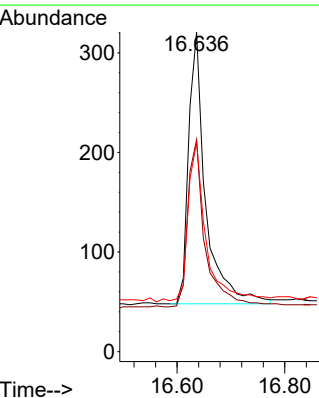
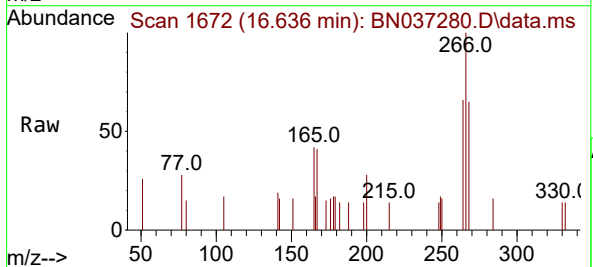
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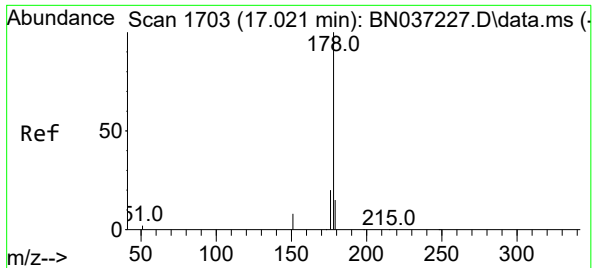
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#24
Pentachlorophenol
Concen: 0.720 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

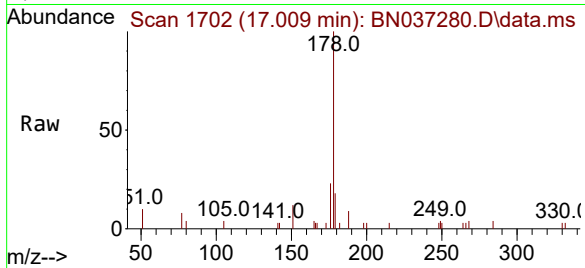
Tgt Ion:266 Resp: 600
Ion Ratio Lower Upper
266 100
264 63.2 49.2 73.8
268 63.2 53.4 80.2





#25
Phenanthrene
Concen: 0.377 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

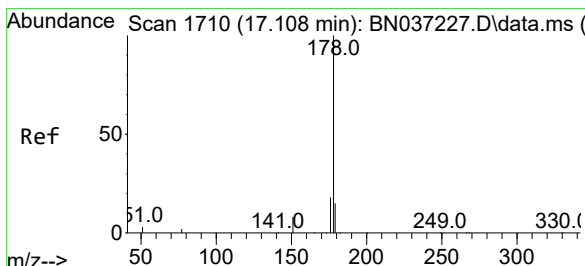
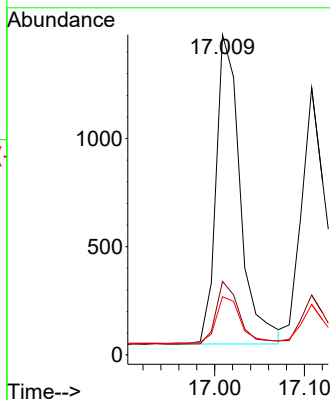
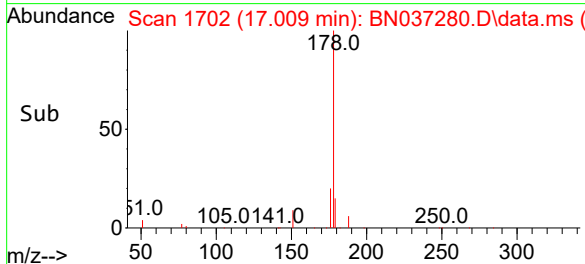
Instrument :
BNA_N
ClientSampleId :
PB168476BS



Tgt Ion:178 Resp: 2688
Ion Ratio Lower Upper
178 100
176 19.6 16.3 24.5
179 15.7 12.6 18.8

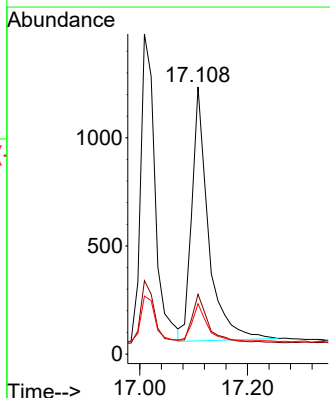
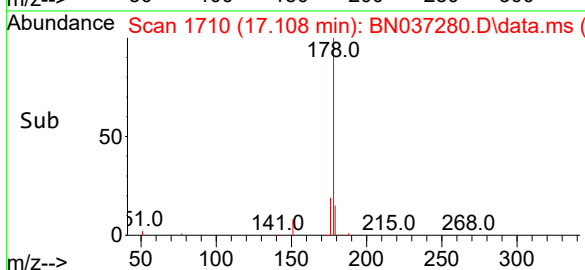
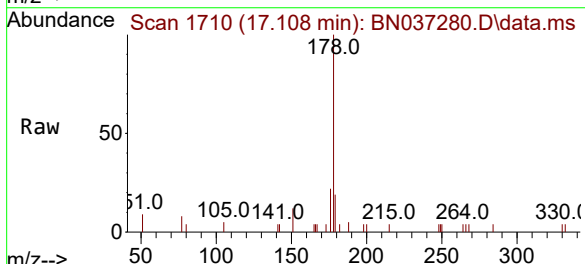
Manual Integrations
APPROVED

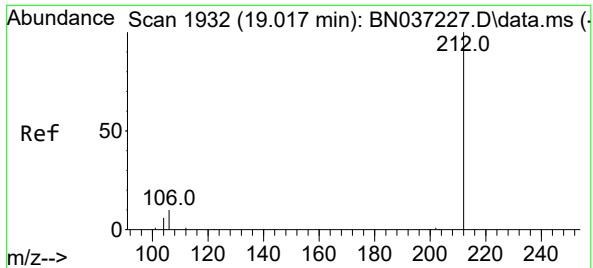
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#26
Anthracene
Concen: 0.385 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

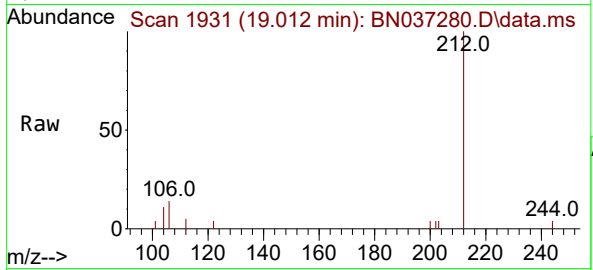
Tgt Ion:178 Resp: 2516
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 13.6 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 19.012 min Scan# 1932
Delta R.T. -0.004 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

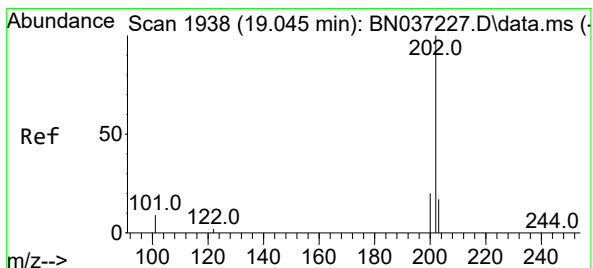
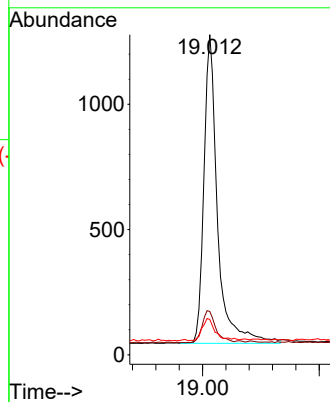
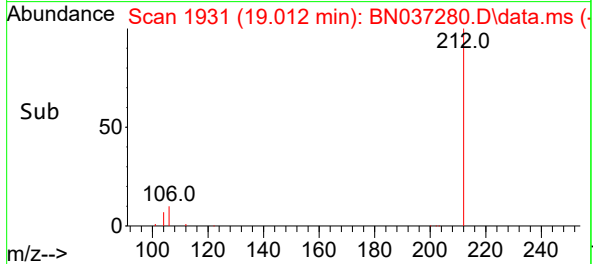
Instrument :
BNA_N
ClientSampleId :
PB168476BS



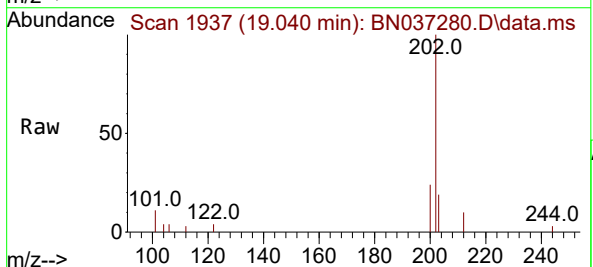
Tgt Ion:212 Resp: 1999
Ion Ratio Lower Upper
212 100
106 10.5 9.3 13.9
104 7.1 5.7 8.5

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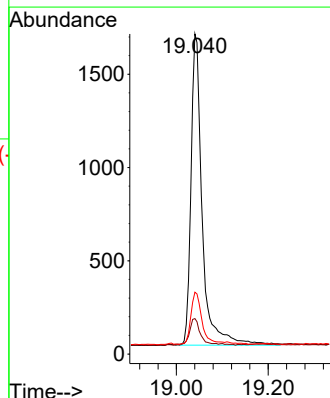
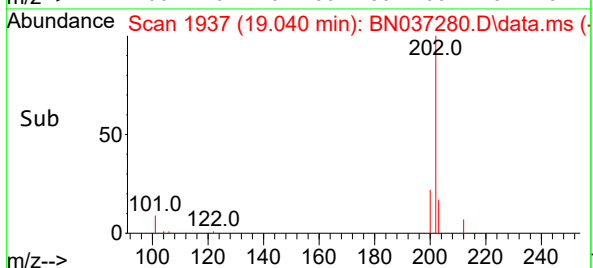
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

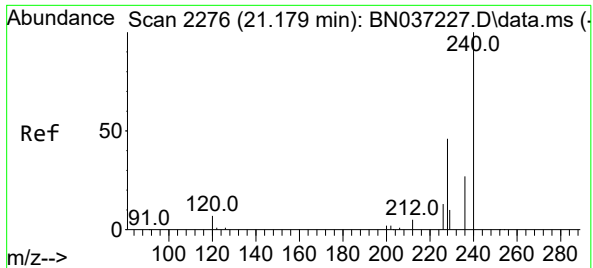


#28
Fluoranthene
Concen: 0.339 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.004 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42



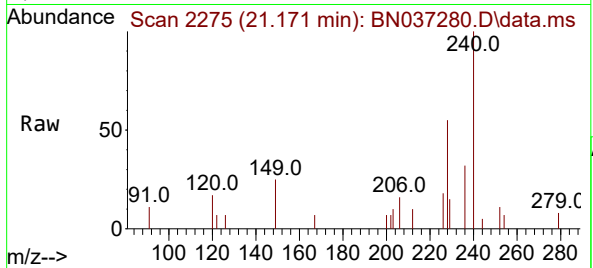
Tgt Ion:202 Resp: 2829
Ion Ratio Lower Upper
202 100
101 8.6 7.1 10.7
203 16.5 13.0 19.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2115
Delta R.T. -0.009 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

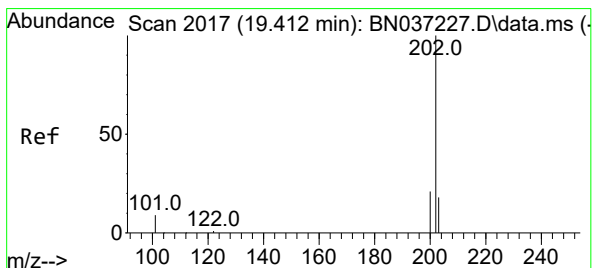
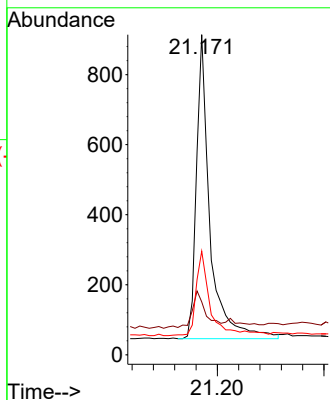
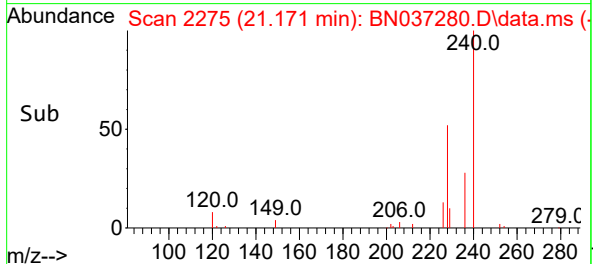
Instrument :
BNA_N
ClientSampleId :
PB168476BS



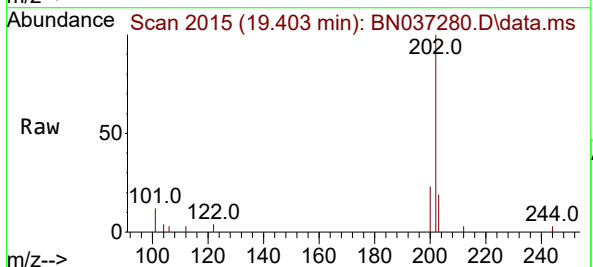
Tgt Ion:240 Resp: 1528
Ion Ratio Lower Upper
240 100
120 16.5 11.3 16.9
236 32.4 24.4 36.6

Manual Integrations
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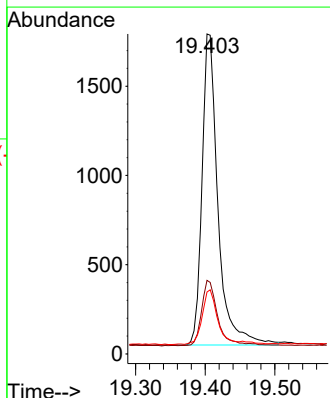
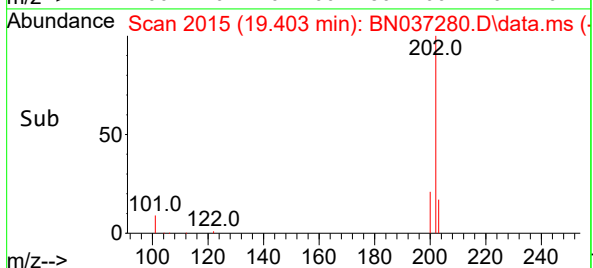
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

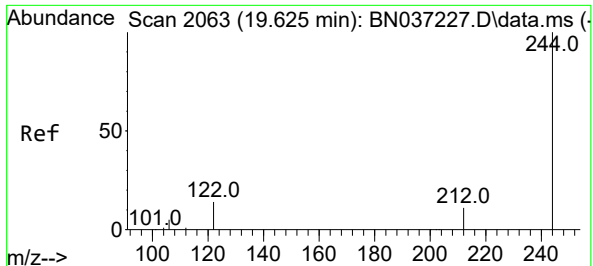


#30
Pyrene
Concen: 0.386 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.009 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42



Tgt Ion:202 Resp: 2773
Ion Ratio Lower Upper
202 100
200 21.6 17.2 25.8
203 16.9 14.3 21.5





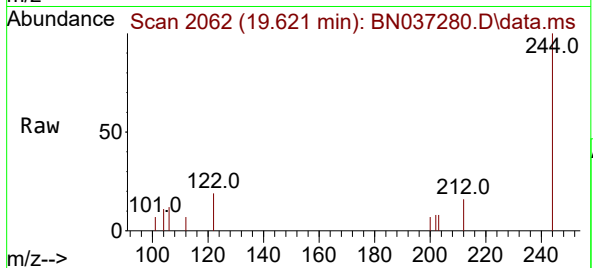
#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS

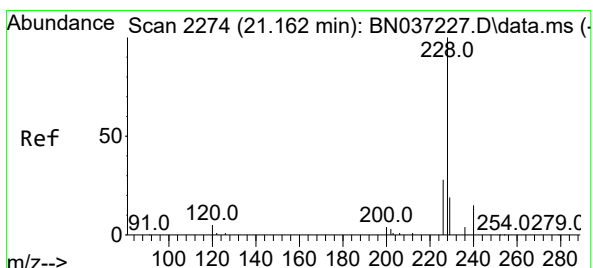
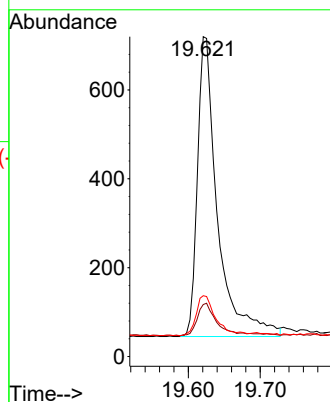


Tgt Ion:244 Resp: 131
Ion Ratio Lower Upper
244 100
212 16.2 12.2 18.2
122 19.0 14.3 21.5

Manual Integrations

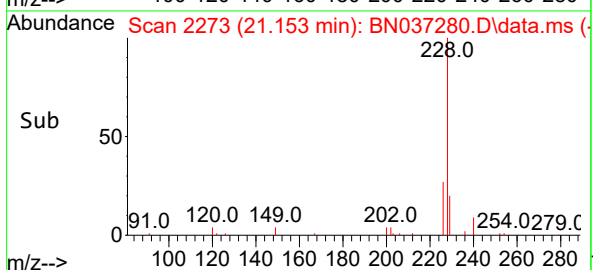
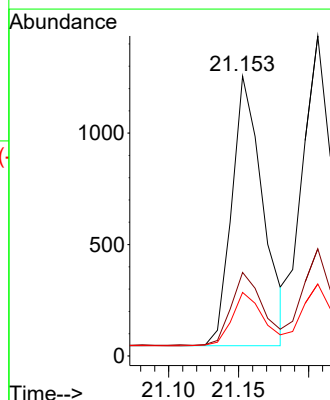
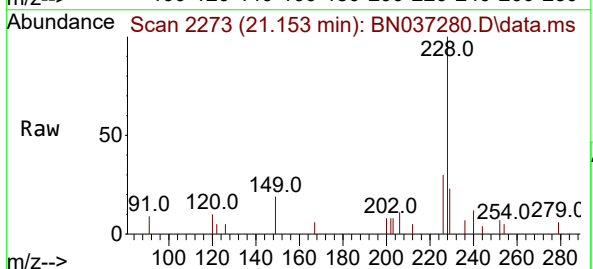
APPROVED

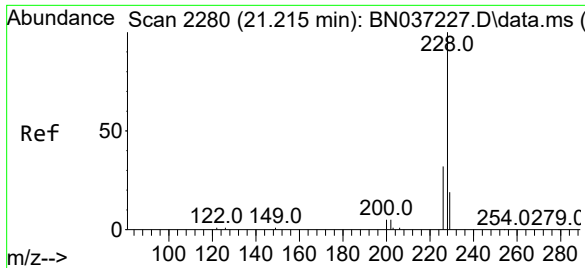
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

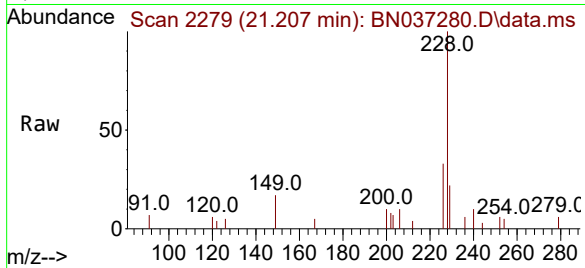
Tgt Ion:228 Resp: 1878
Ion Ratio Lower Upper
228 100
226 29.9 23.8 35.8
229 22.7 17.0 25.4





#33
Chrysene
Concen: 0.404 ng
RT: 21.207 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

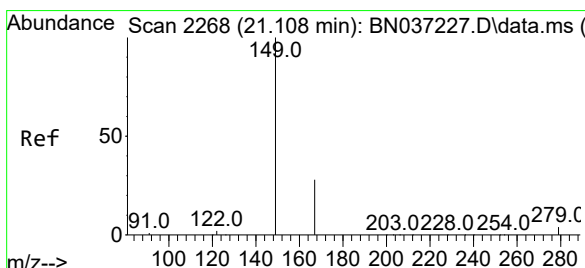
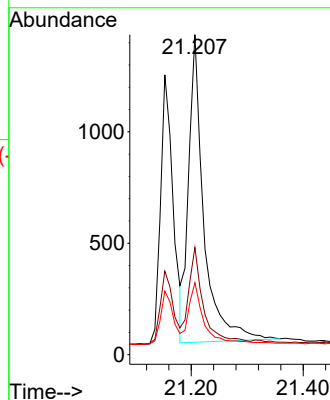
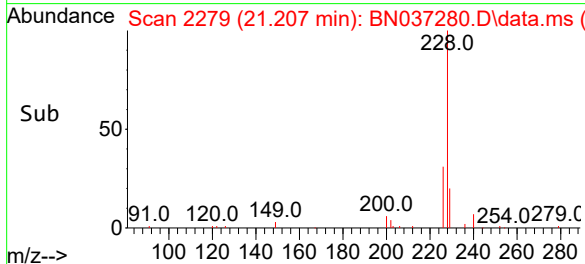
Instrument :
BNA_N
ClientSampleId :
PB168476BS



Tgt Ion: 228 Resp: 2594
Ion Ratio Lower Upper
228 100
226 33.5 25.8 38.6
229 22.5 17.0 25.4

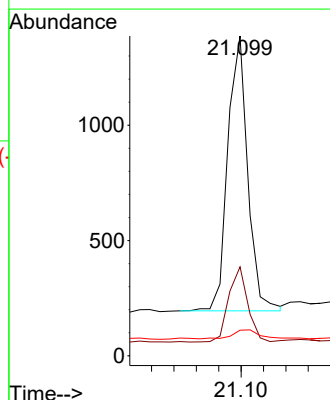
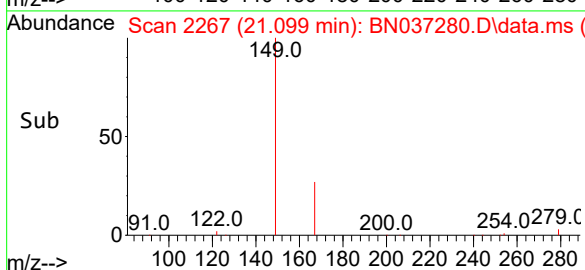
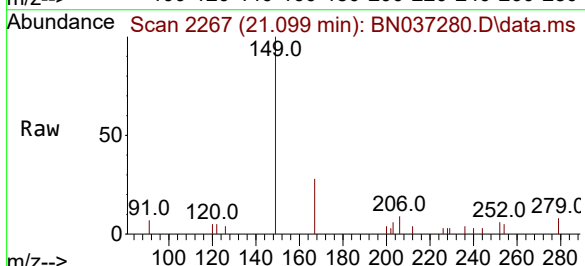
Manual Integrations
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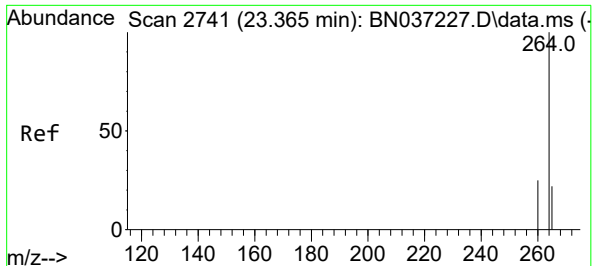
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.383 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion: 149 Resp: 1471
Ion Ratio Lower Upper
149 100
167 26.4 21.3 31.9
279 4.5 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037280.D

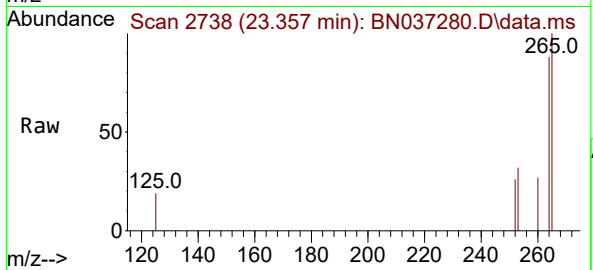
Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS



Tgt Ion:264 Resp: 1224

Ion Ratio Lower Upper

264 100

260 30.6 22.8 34.2

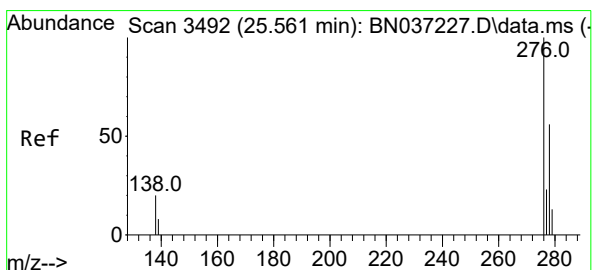
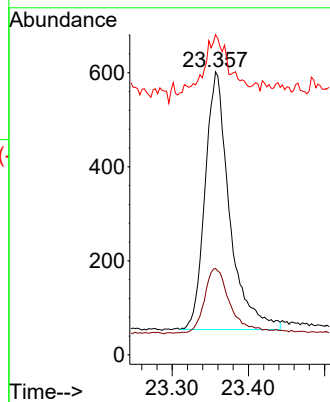
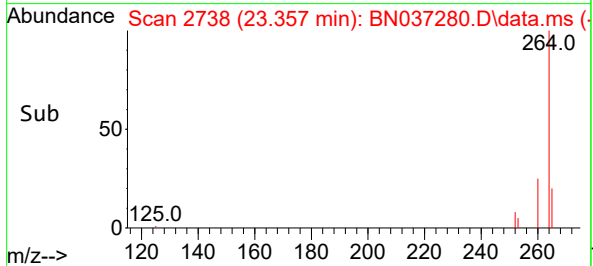
265 113.1 66.4 99.6

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#36

Indeno(1,2,3-cd)pyrene

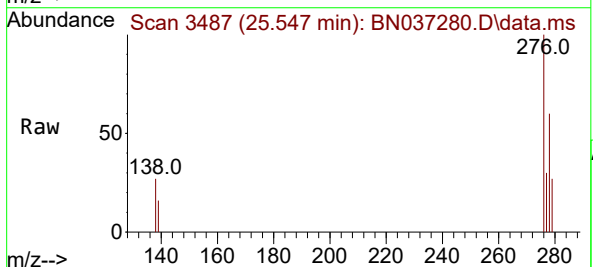
Concen: 0.487 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.014 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42



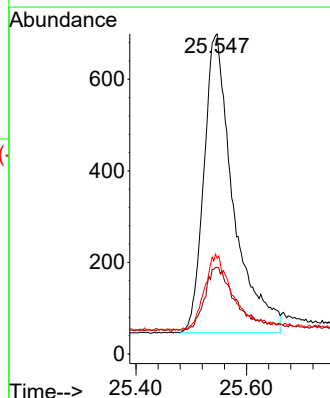
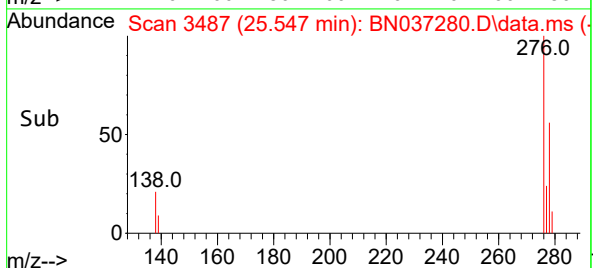
Tgt Ion:276 Resp: 2405

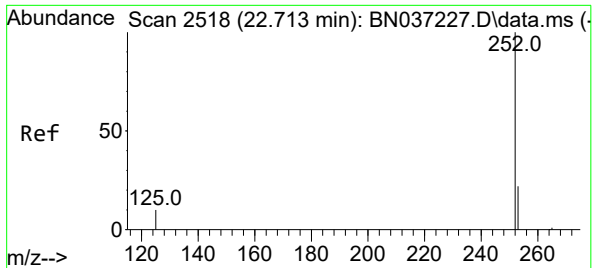
Ion Ratio Lower Upper

276 100

138 22.6 16.8 25.2

277 23.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.451 ng

RT: 22.702 min Scan# 2518

Delta R.T. -0.012 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS

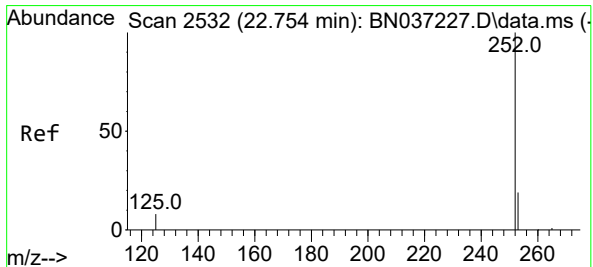
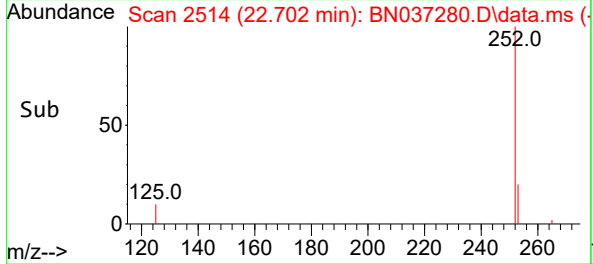
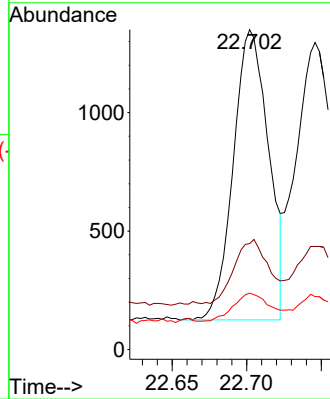
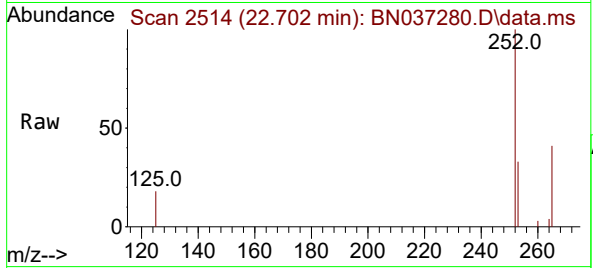
Tgt Ion:	252	Resp:	2018
Ion Ratio	Lower	Upper	
252	100		
253	33.1	24.9	37.3
125	17.6	12.9	19.3

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#38

Benzo(k)fluoranthene

Concen: 0.442 ng

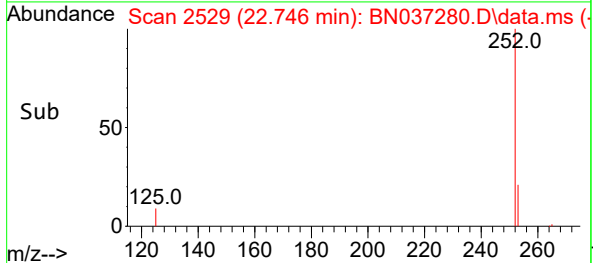
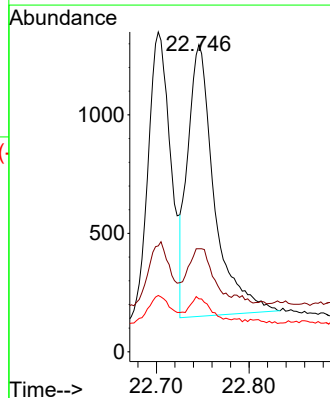
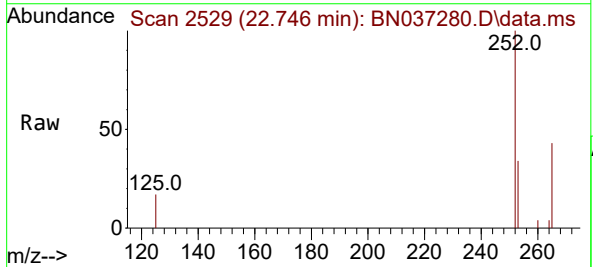
RT: 22.746 min Scan# 2529

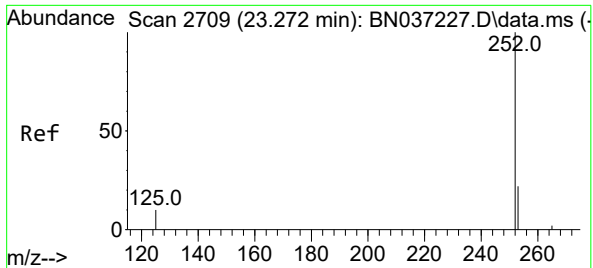
Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Tgt Ion:	252	Resp:	2286
Ion Ratio	Lower	Upper	
252	100		
253	33.6	24.6	37.0
125	17.3	13.4	20.2





#39

Benzo(a)pyrene

Concen: 0.445 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

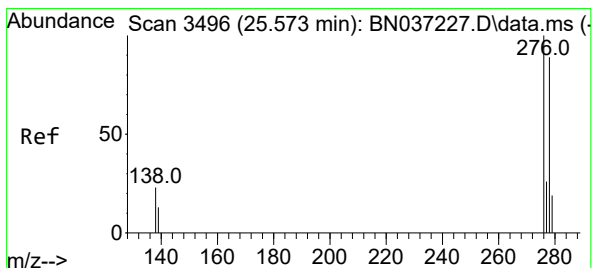
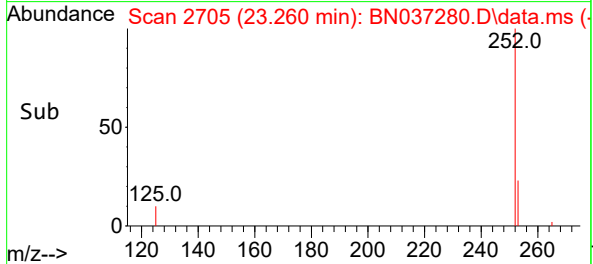
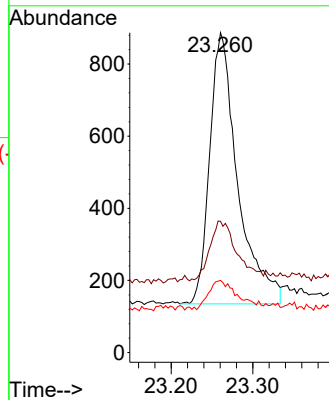
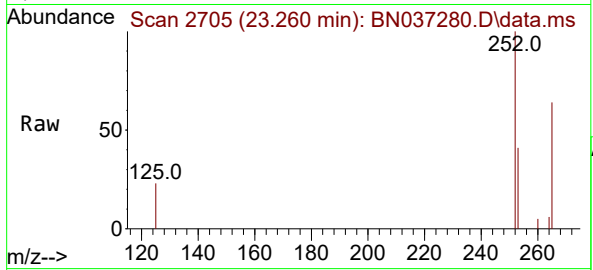
PB168476BS

Tgt Ion:	252	Resp:	179
Ion Ratio	Lower	Upper	
252	100		
253	41.0	29.4	44.2
125	22.5	16.2	24.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.500 ng

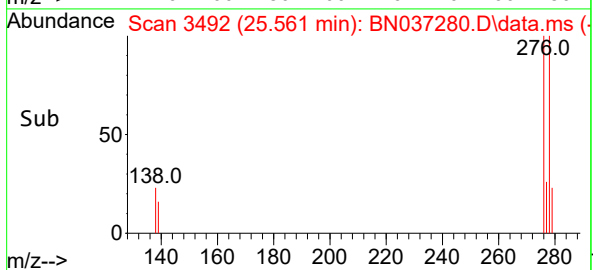
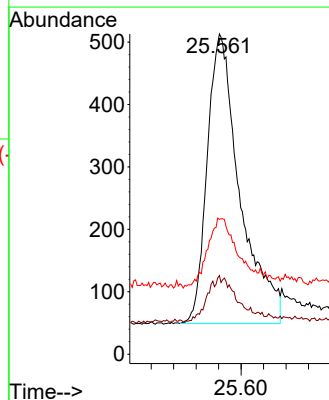
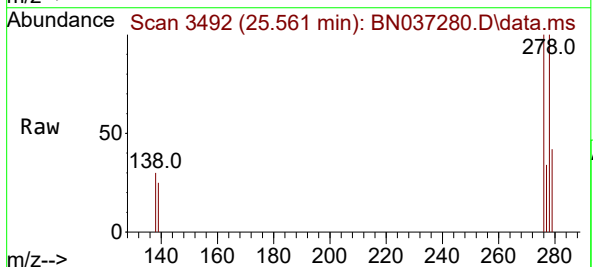
RT: 25.561 min Scan# 3492

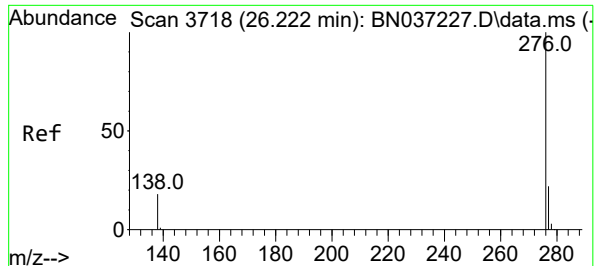
Delta R.T. -0.012 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Tgt Ion:	278	Resp:	1876
Ion Ratio	Lower	Upper	
278	100		
139	24.6	17.8	26.6
279	42.1	31.3	46.9





#41

Benzo(g,h,i)perylene

Concen: 0.467 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037280.D

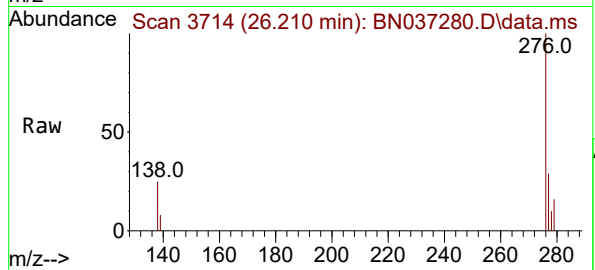
Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS



Tgt Ion: 276 Resp: 2130

Ion Ratio Lower Upper

276 100

277 29.3 22.0 33.0

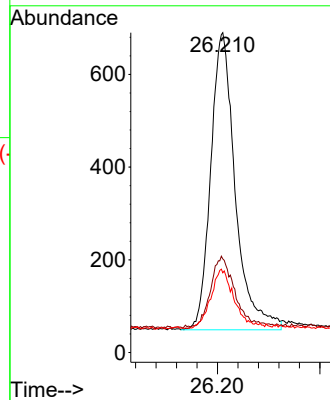
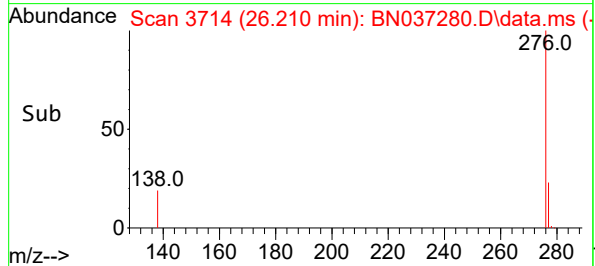
138 24.9 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168476BSD	SDG No.:	Q2316
Lab Sample ID:	PB168476BSD	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
BN037281.D	1	06/13/25 11:00	06/15/25 03:18	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.28		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	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	1070	7.575				
1146-65-2	Naphthalene-d8	2630	10.351				
15067-26-2	Acenaphthene-d10	1330	14.223				
1517-22-2	Phenanthrene-d10	2260	16.971				
1719-03-5	Chrysene-d12	1570	21.17				
1520-96-3	Perylene-d12	1280	23.354				

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\BN061325\
 Data File : BN037281.D
 Acq On : 15 Jun 2025 03:18
 Operator : RC/JU
 Sample : PB168476BSD
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168476BSD

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 16 02:47:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1070	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2630	0.400	ng	#-0.01
13) Acenaphthene-d10	14.223	164	1332	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2256	0.400	ng	0.00
29) Chrysene-d12	21.170	240	1565	0.400	ng	0.00
35) Perylene-d12	23.354	264	1276	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	878	0.334	ng	0.00
5) Phenol-d6	6.758	99	923	0.333	ng	0.00
8) Nitrobenzene-d5	8.728	82	885	0.340	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1401m	0.397	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	175	0.316	ng	0.00
15) 2-Fluorobiphenyl	12.842	172	2000	0.357	ng	0.00
27) Fluoranthene-d10	19.012	212	1905	0.323	ng	0.00
31) Terphenyl-d14	19.625	244	1269	0.359	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.104	88	411	0.280	ng	# 1
3) n-Nitrosodimethylamine	3.415	42	1162	0.347	ng	# 98
6) bis(2-Chloroethyl)ether	7.011	93	840	0.339	ng	98
9) Naphthalene	10.404	128	2636	0.346	ng	99
10) Hexachlorobutadiene	10.692	225	689	0.372	ng	# 100
12) 2-Methylnaphthalene	12.026	142	1469	0.317	ng	98
16) Acenaphthylene	13.945	152	2403	0.368	ng	99
17) Acenaphthene	14.288	154	1450	0.344	ng	98
18) Fluorene	15.282	166	1824	0.337	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	199	0.452	ng	# 82
21) 4-Bromophenyl-phenylether	16.177	248	520	0.354	ng	88
22) Hexachlorobenzene	16.288	284	639	0.375	ng	97
23) Atrazine	16.462	200	174	0.133	ng	# 79
24) Pentachlorophenol	16.636	266	563	0.674	ng	98
25) Phenanthrene	17.008	178	2535	0.354	ng	98
26) Anthracene	17.108	178	2265	0.346	ng	98
28) Fluoranthene	19.040	202	2616	0.312	ng	98
30) Pyrene	19.407	202	2606	0.354	ng	99
32) Benzo(a)anthracene	21.152	228	1822	0.345	ng	97
33) Chrysene	21.206	228	2488	0.378	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	1409	0.358	ng	98
36) Indeno(1,2,3-cd)pyrene	25.540	276	2342	0.455	ng	98
37) Benzo(b)fluoranthene	22.702	252	1986	0.425	ng	95
38) Benzo(k)fluoranthene	22.745	252	2165	0.402	ng	96
39) Benzo(a)pyrene	23.260	252	1765	0.420	ng	93
40) Dibenzo(a,h)anthracene	25.558	278	1744	0.446	ng	94
41) Benzo(g,h,i)perylene	26.210	276	2014	0.422	ng	95

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

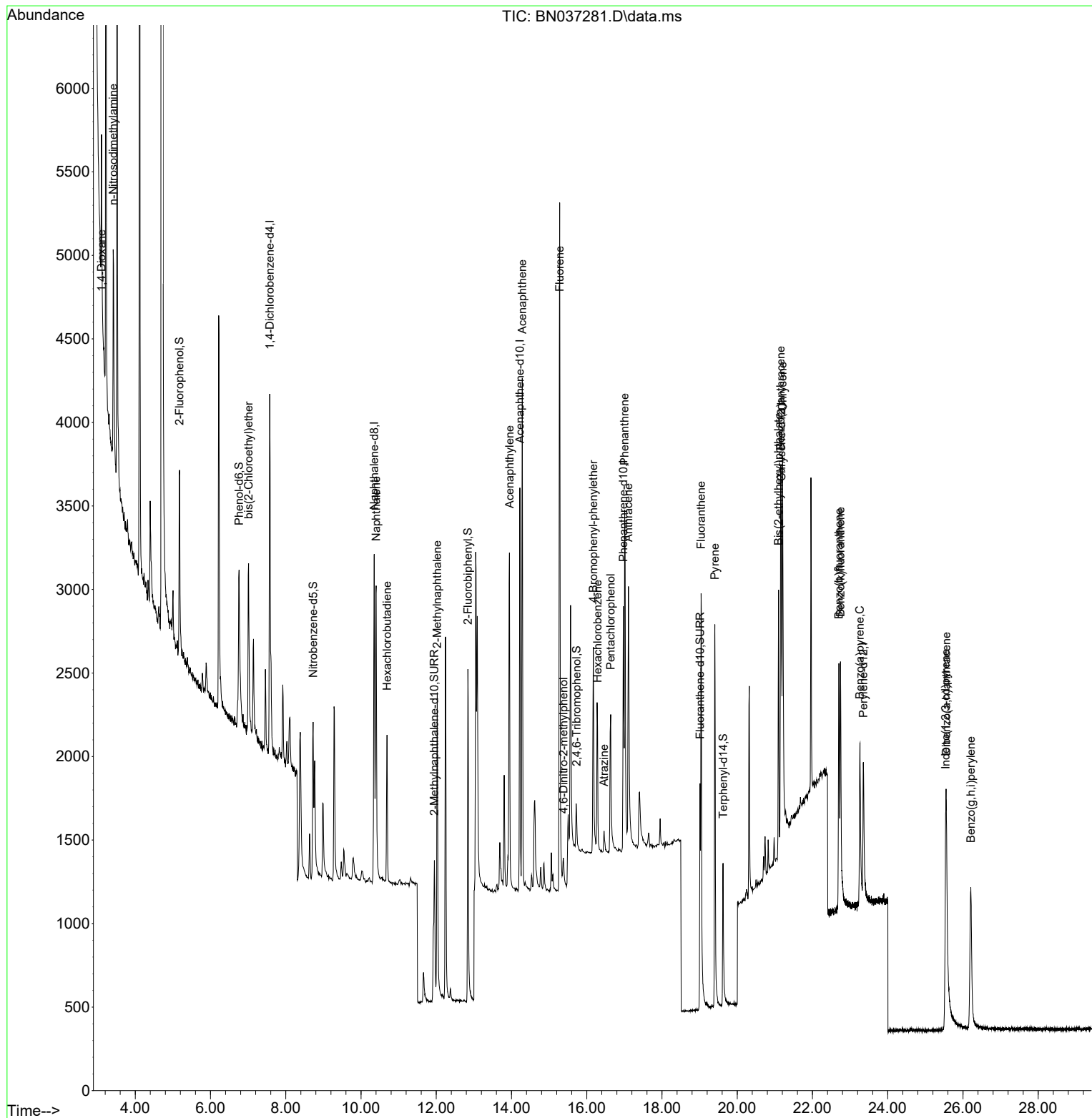
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037281.D
Acq On : 15 Jun 2025 03:18
Operator : RC/JU
Sample : PB168476BSD
Misc :
ALS Vial : 60 Sample Multiplier: 1

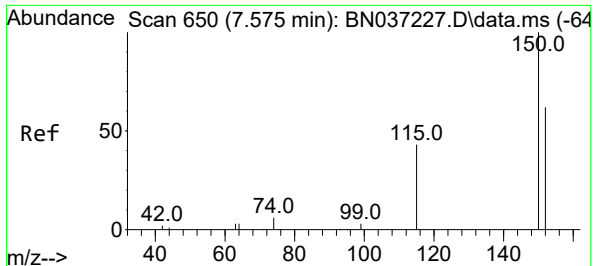
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

Quant Time: Jun 16 02:47:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

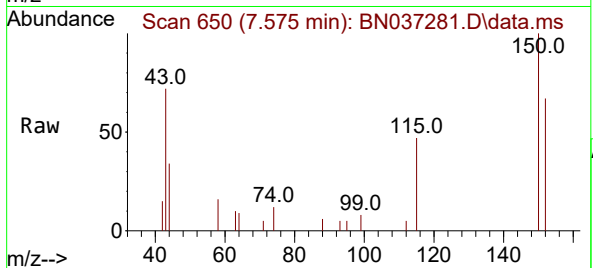
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

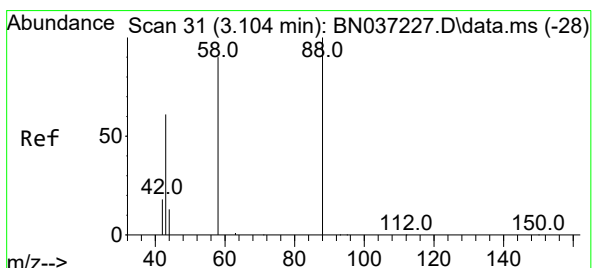
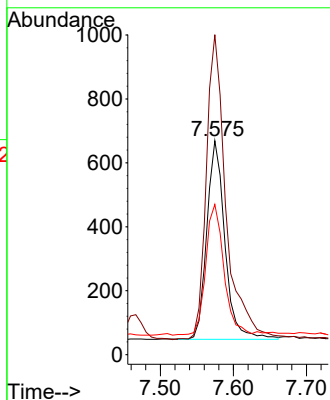
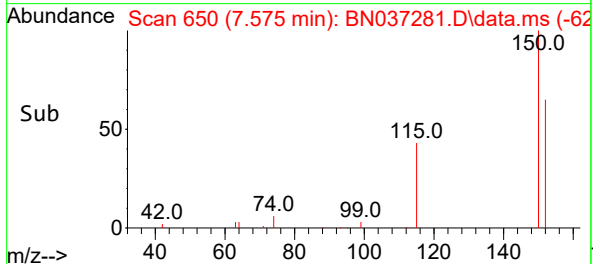
Instrument :
BNA_N
ClientSampleId :
PB168476BSD



Tgt Ion: 152 Resp: 1070
Ion Ratio Lower Upper
152 100
150 149.6 125.2 187.8
115 70.3 58.4 87.6

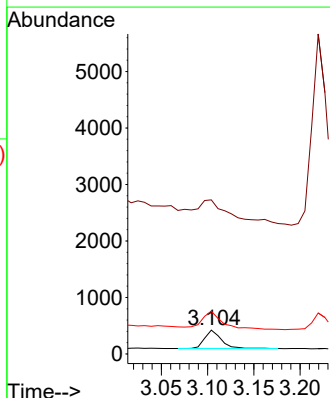
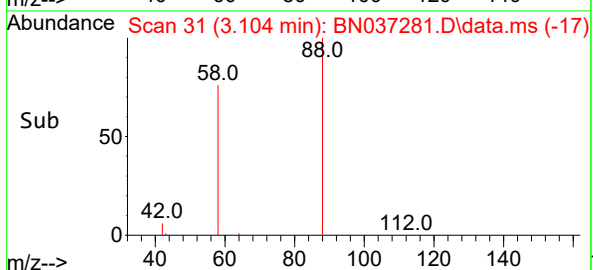
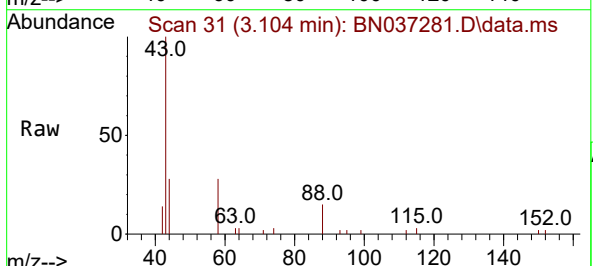
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

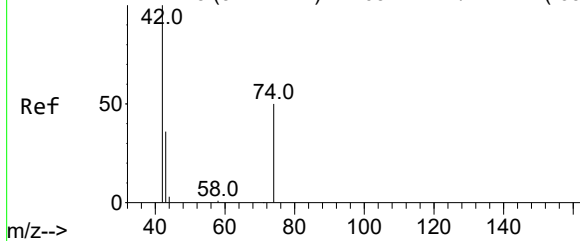


#2
1,4-Dioxane
Concen: 0.280 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion: 88 Resp: 411
Ion Ratio Lower Upper
88 100
43 228.7 52.6 79.0#
58 118.2 73.5 110.3#



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.347 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

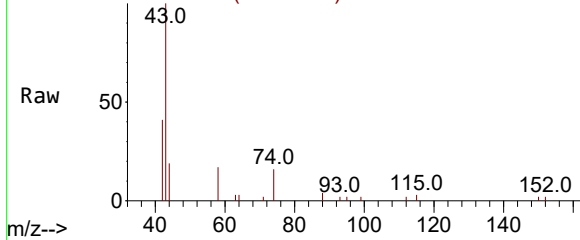
Instrument :

BNA_N

ClientSampleId :

PB168476BSD

Abundance Scan 74 (3.415 min): BN037281.D\data.ms



Tgt Ion: 42 Resp: 116

Ion Ratio Lower Upper

42 100

74 54.3 44.6 66.8

44 5.7 3.5 5.3

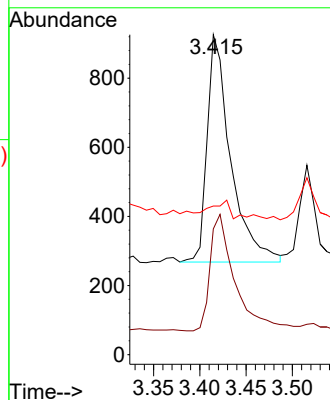
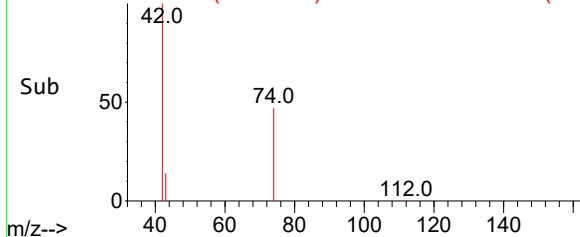
Manual Integrations

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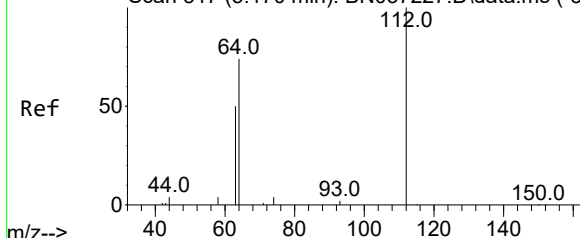
Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Abundance Scan 74 (3.415 min): BN037281.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.334 ng

RT: 5.177 min Scan# 318

Delta R.T. 0.007 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Tgt Ion:112 Resp: 878

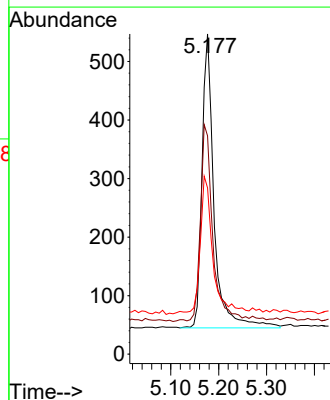
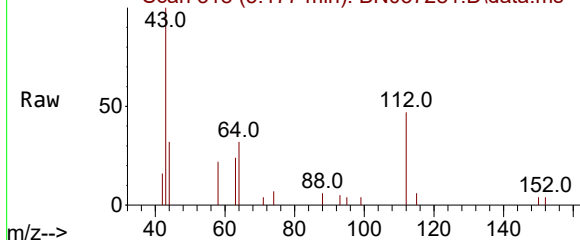
Ion Ratio Lower Upper

112 100

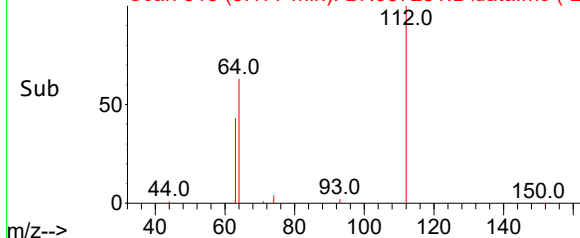
64 68.8 57.2 85.8

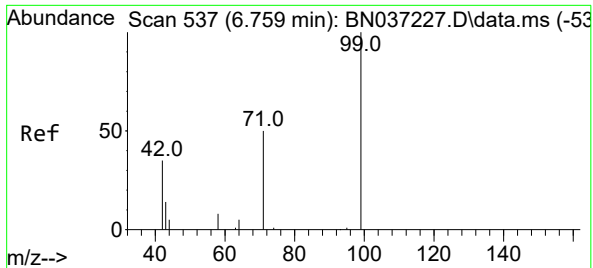
63 49.0 39.8 59.6

Abundance Scan 318 (5.177 min): BN037281.D\data.ms



Abundance Scan 318 (5.177 min): BN037281.D\data.ms (-28)





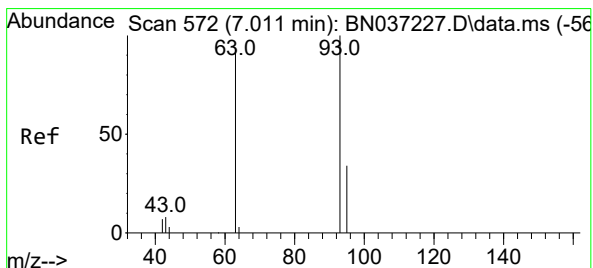
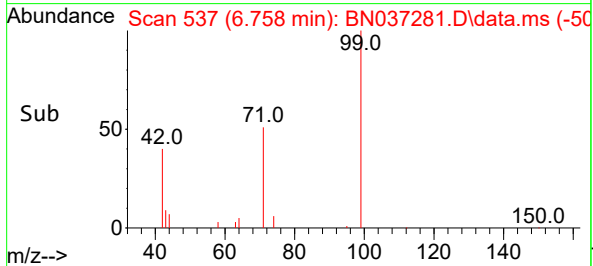
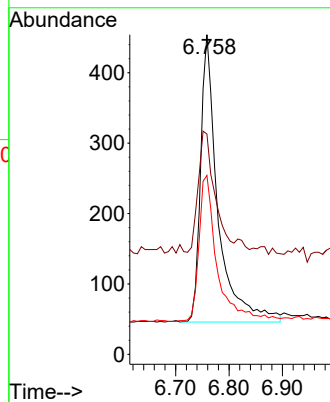
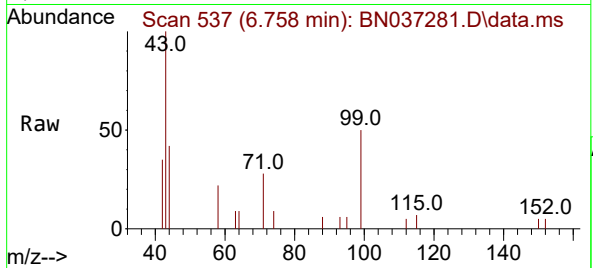
#5
Phenol-d6
Concen: 0.333 ng
RT: 6.758 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

Tgt Ion: 99 Resp: 92
Ion Ratio Lower Upper
99 100
42 40.3 36.2 54.4
71 53.3 42.4 63.6

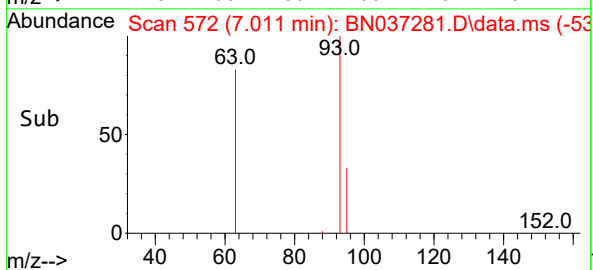
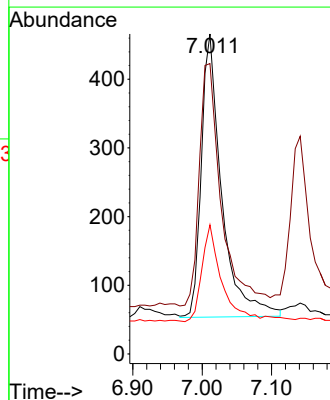
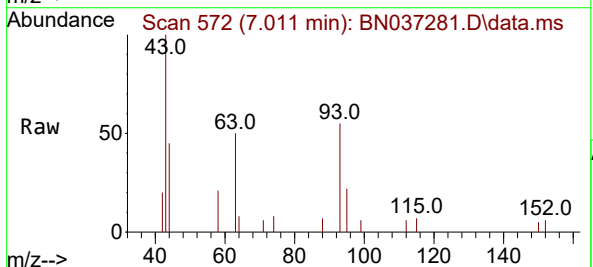
Manual Integrations
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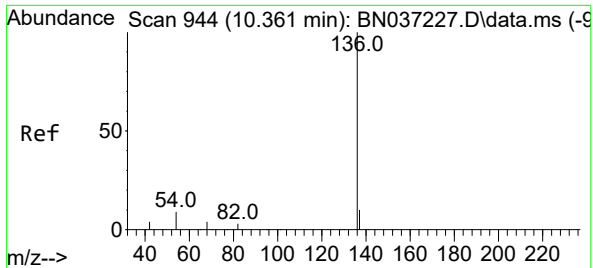
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.339 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

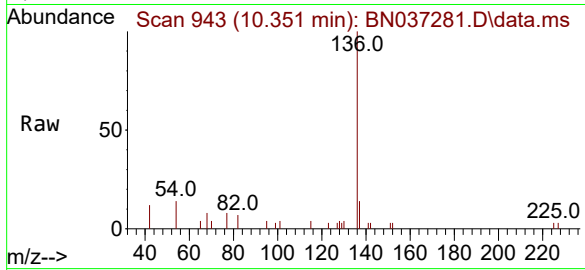
Tgt Ion: 93 Resp: 840
Ion Ratio Lower Upper
93 100
63 92.6 75.2 112.8
95 33.0 28.3 42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

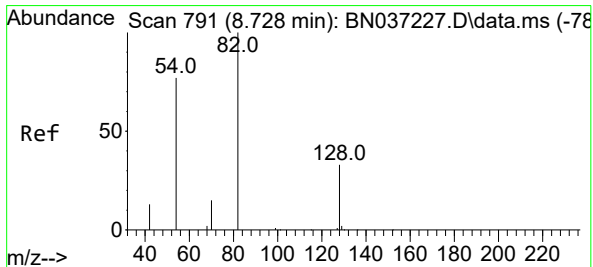
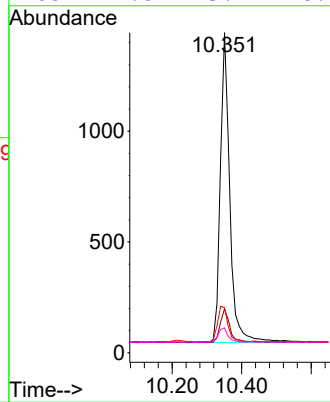
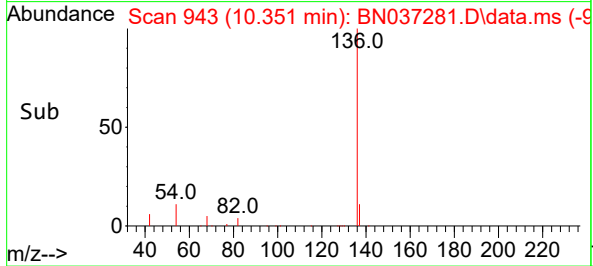
Instrument :
BNA_N
ClientSampleId :
PB168476BSD



Tgt Ion:136 Resp: 2630
Ion Ratio Lower Upper
136 100
137 13.7 10.6 15.8
54 14.0 9.2 13.8
68 7.8 5.4 8.0

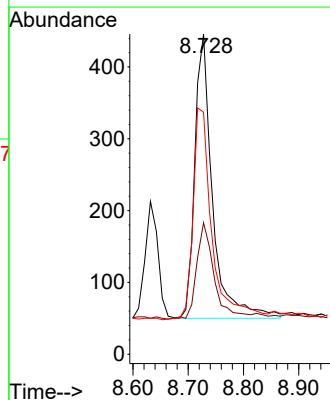
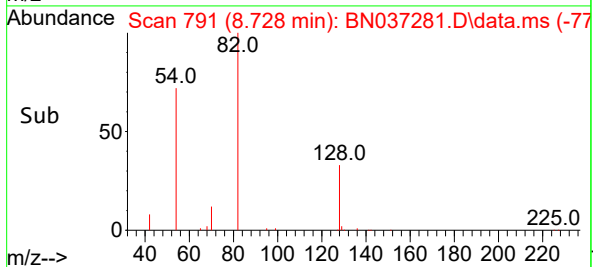
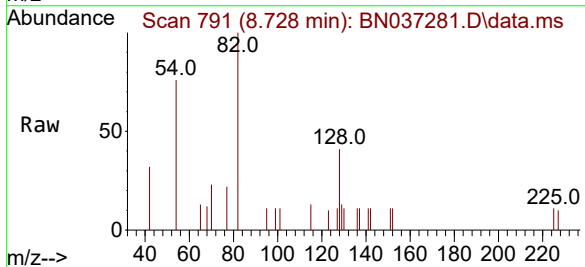
Manual Integrations
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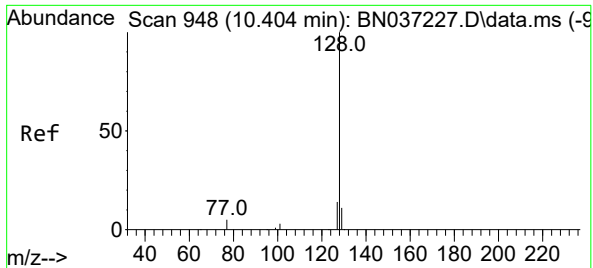
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion: 82 Resp: 885
Ion Ratio Lower Upper
82 100
128 41.0 31.2 46.8
54 75.6 63.3 94.9





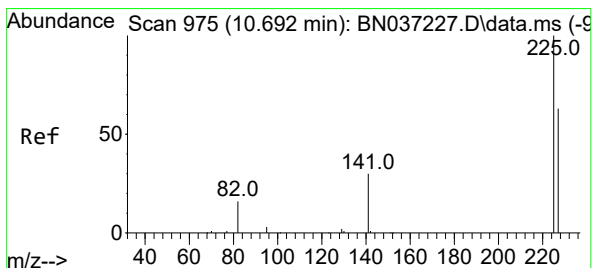
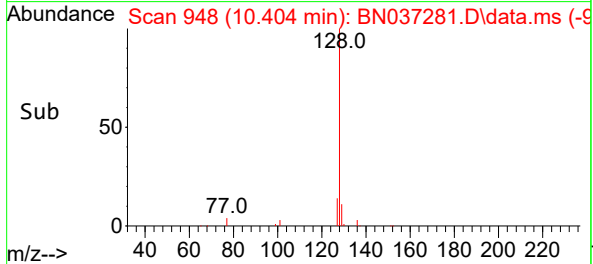
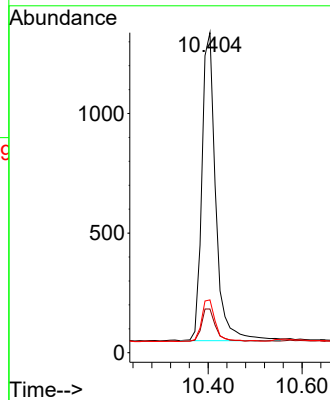
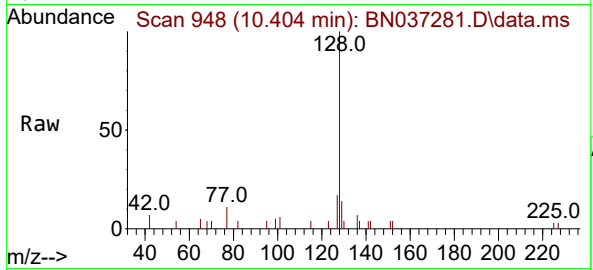
#9
Naphthalene
Concen: 0.346 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

Tgt Ion:128 Resp: 2630
Ion Ratio Lower Upper
128 100
129 13.7 10.7 16.1
127 16.5 12.6 19.0

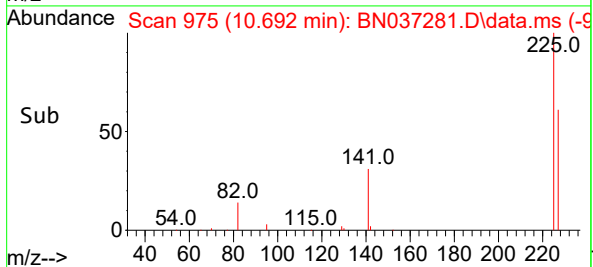
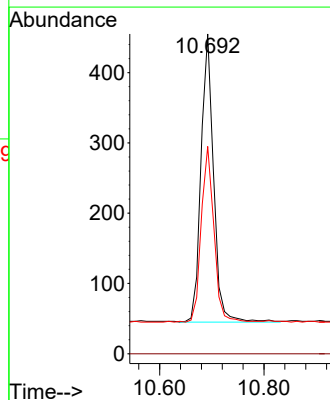
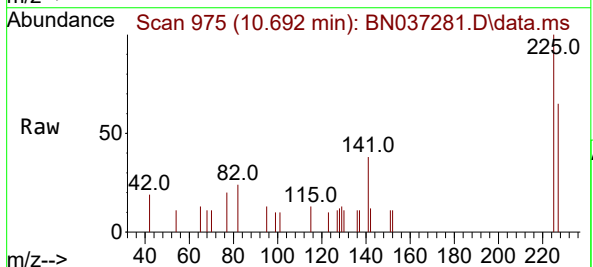
Manual Integrations
APPROVED

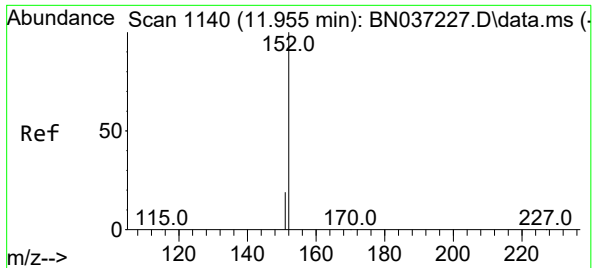
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.372 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

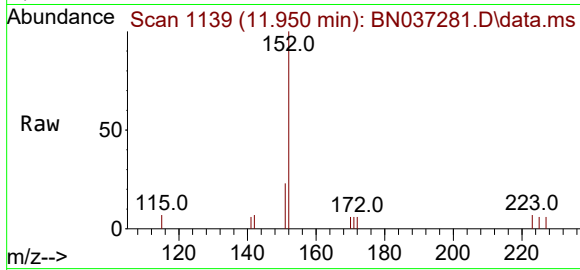
Tgt Ion:225 Resp: 689
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.4 49.2 73.8





#11
2-Methylnaphthalene-d10
Concen: 0.397 ng m
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

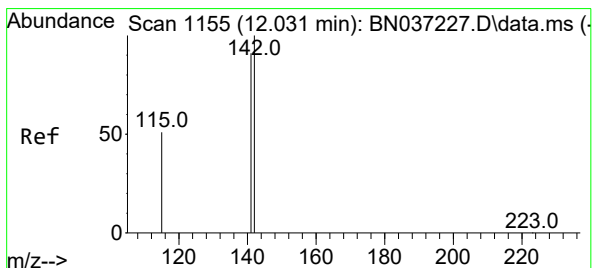
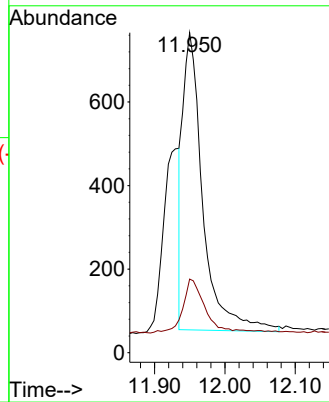
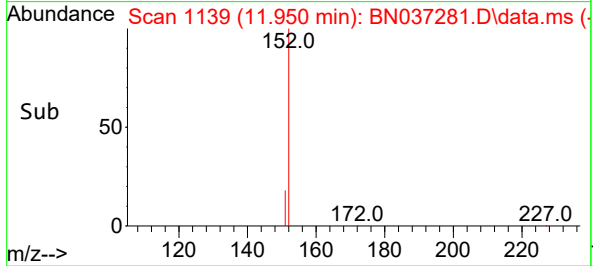
Instrument :
BNA_N
ClientSampleId :
PB168476BSD



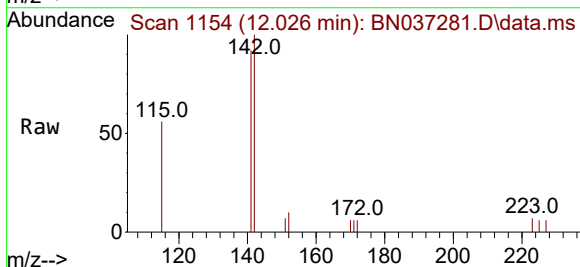
Tgt Ion:152 Resp: 140
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9

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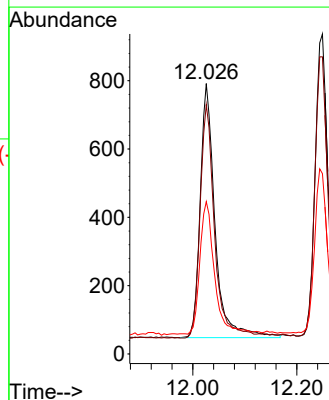
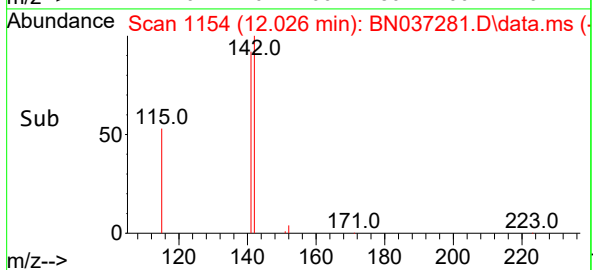
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

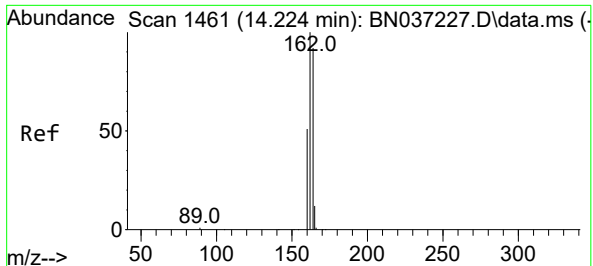


#12
2-Methylnaphthalene
Concen: 0.317 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18



Tgt Ion:142 Resp: 1469
Ion Ratio Lower Upper
142 100
141 92.2 73.0 109.6
115 56.3 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.223 min Scan# 1461

Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

PB168476BSD

Tgt Ion:164 Resp: 133

Ion Ratio Lower Upper

164 100

162 104.7 86.7 130.1

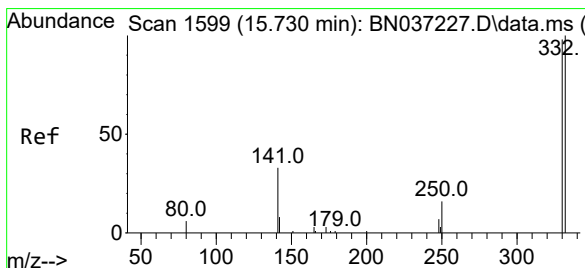
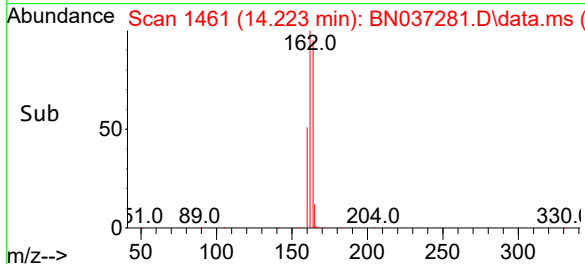
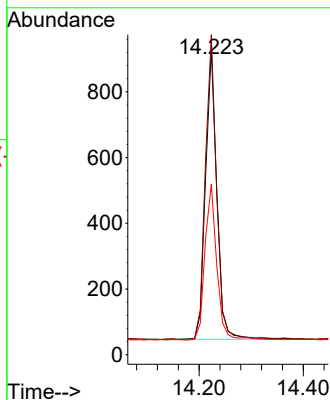
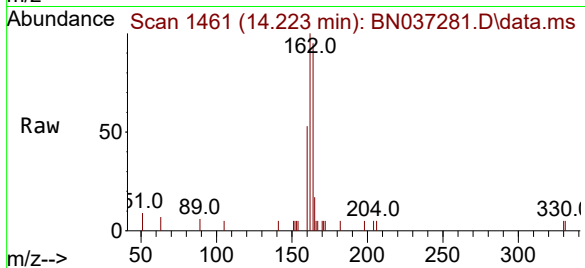
160 55.8 45.8 68.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#14

2,4,6-Tribromophenol

Concen: 0.316 ng

RT: 15.730 min Scan# 1599

Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

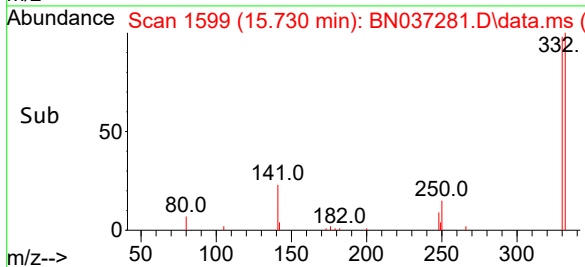
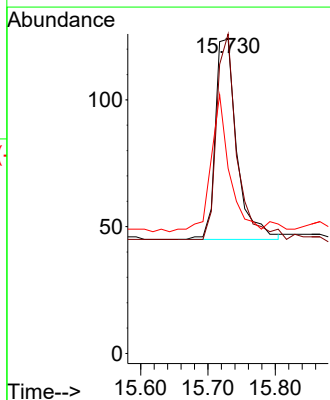
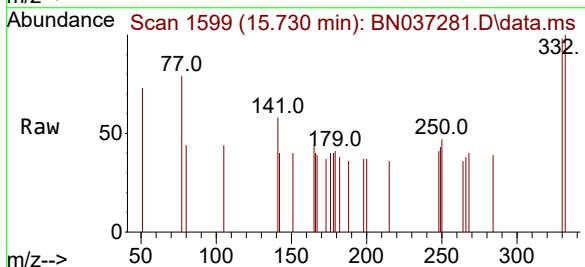
Tgt Ion:330 Resp: 175

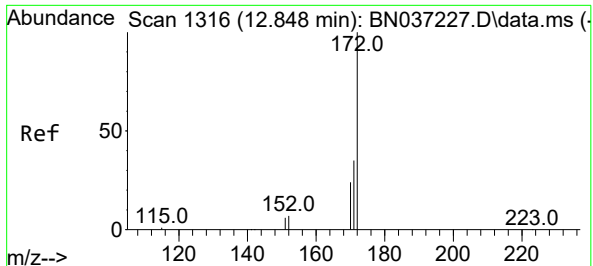
Ion Ratio Lower Upper

330 100

332 98.9 74.9 112.3

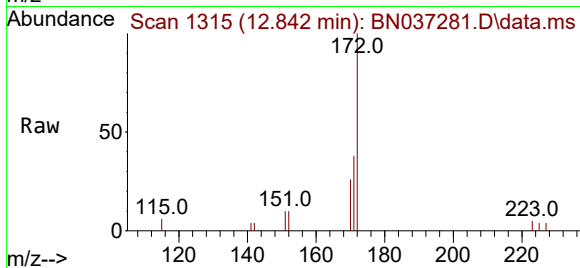
141 59.4 45.1 67.7





#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.842 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

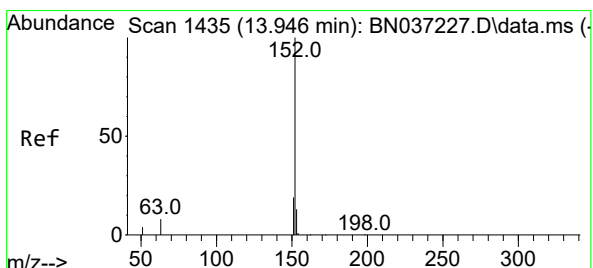
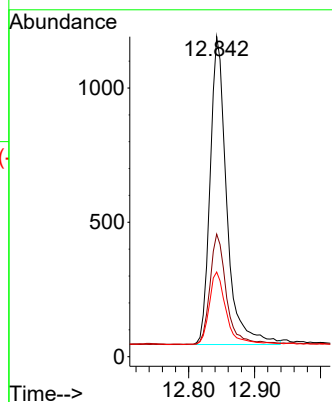
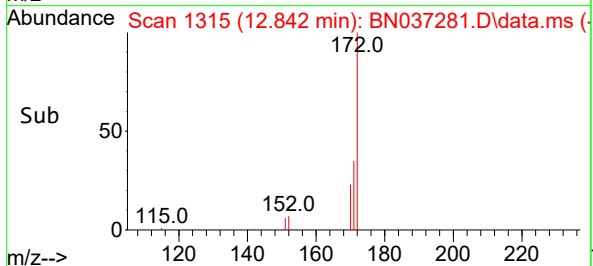
Instrument :
BNA_N
ClientSampleId :
PB168476BSD



Tgt Ion:172 Resp: 2000
Ion Ratio Lower Upper
172 100
171 38.3 29.8 44.8
170 26.4 21.1 31.7

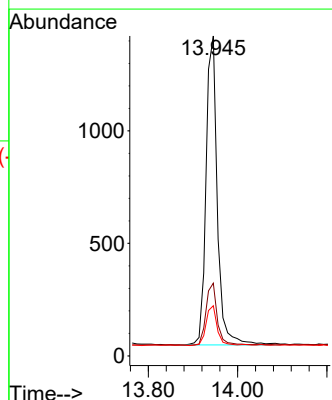
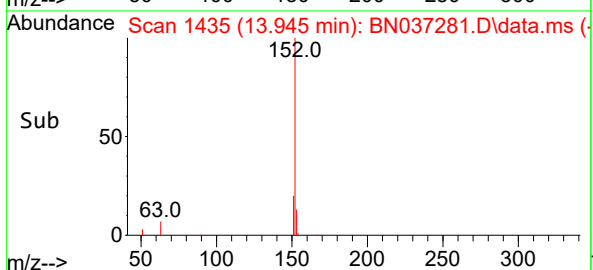
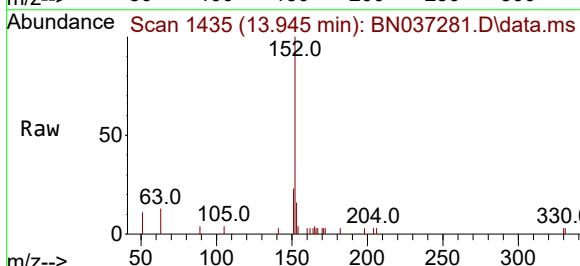
Manual Integrations
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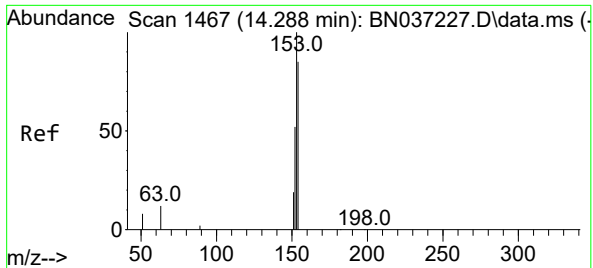
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#16
Acenaphthylene
Concen: 0.368 ng
RT: 13.945 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

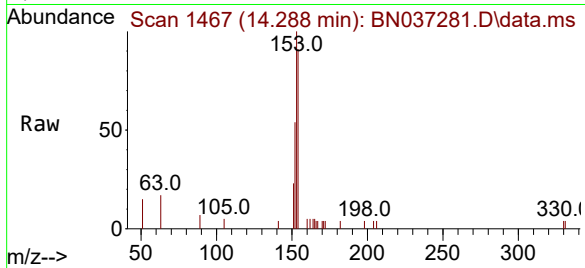
Tgt Ion:152 Resp: 2403
Ion Ratio Lower Upper
152 100
151 19.8 15.7 23.5
153 13.0 10.7 16.1





#17
Acenaphthene
Concen: 0.344 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

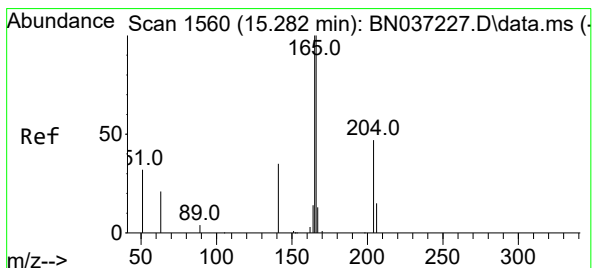
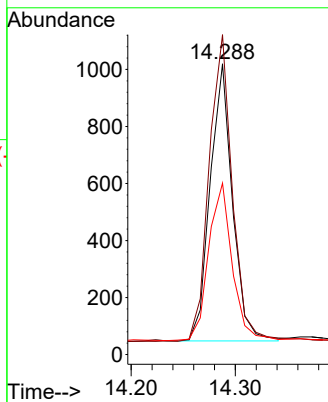
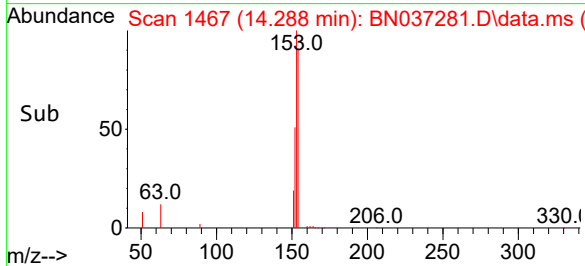
Instrument :
BNA_N
ClientSampleId :
PB168476BSD



Tgt Ion:154 Resp: 1450
Ion Ratio Lower Upper
154 100
153 116.8 94.6 141.8
152 60.1 49.6 74.4

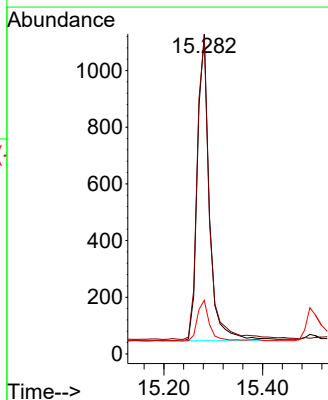
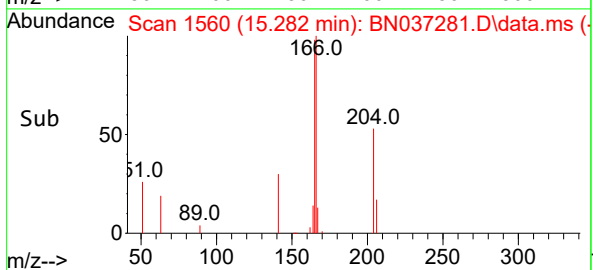
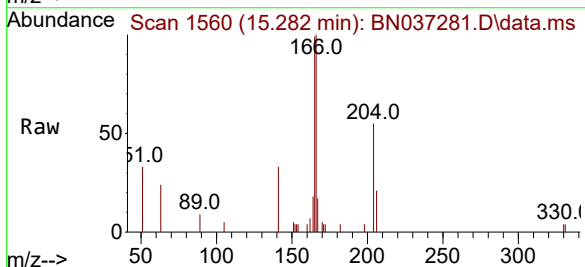
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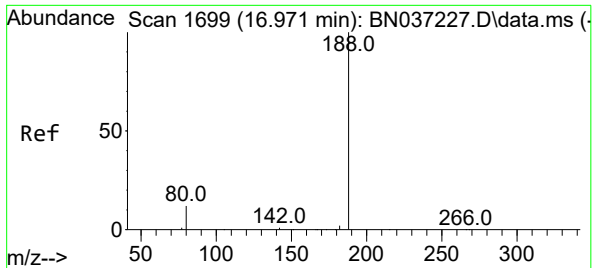
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#18
Fluorene
Concen: 0.337 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:166 Resp: 1824
Ion Ratio Lower Upper
166 100
165 101.3 79.8 119.6
167 13.2 10.8 16.2





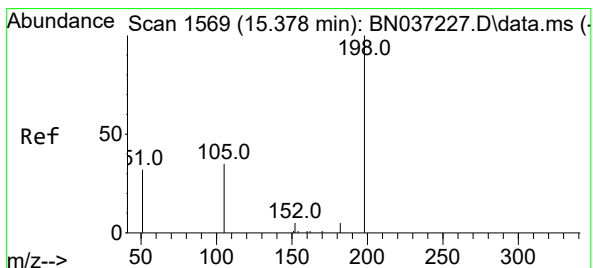
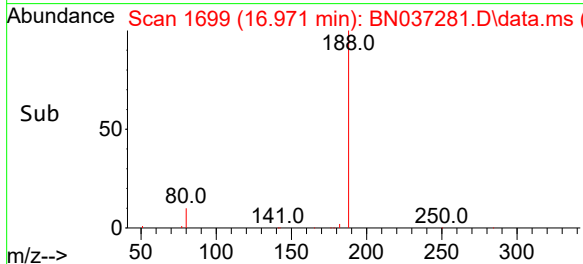
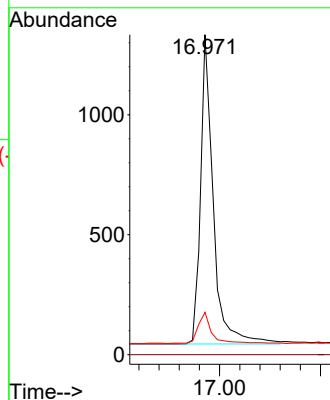
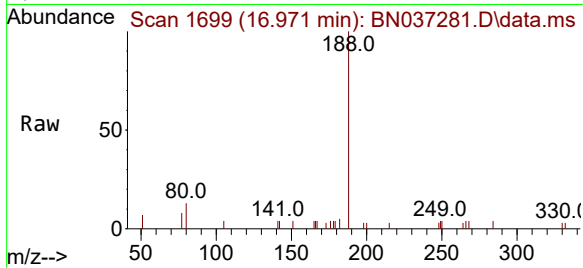
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

Tgt Ion:188 Resp: 2250
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.3 12.2 18.4

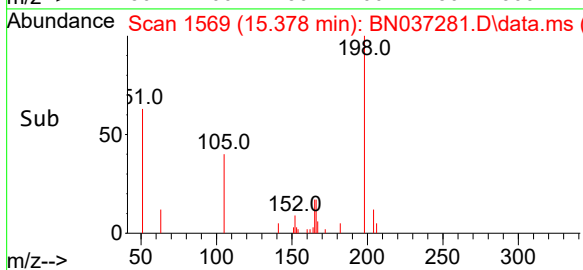
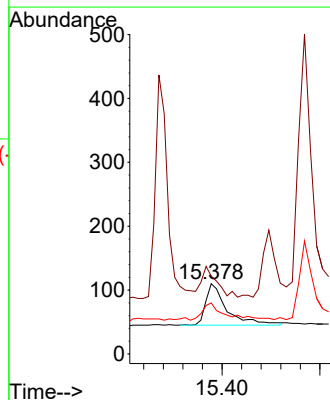
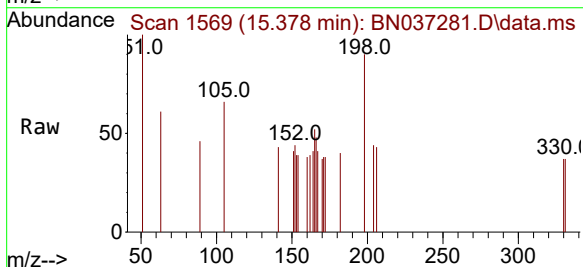
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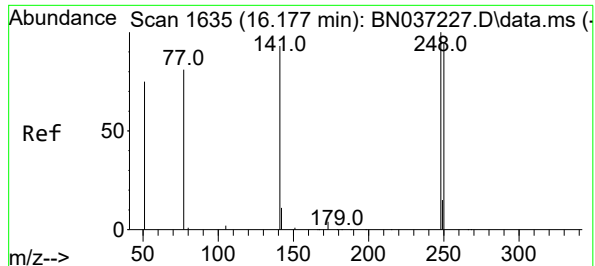
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.452 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

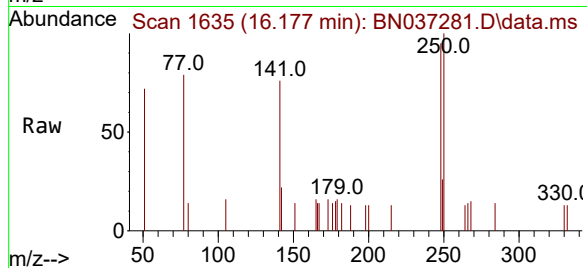
Tgt Ion:198 Resp: 199
Ion Ratio Lower Upper
198 100
51 110.9 111.2 166.8#
105 72.7 54.0 81.0





#21
4-Bromophenyl-phenylether
Concen: 0.354 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

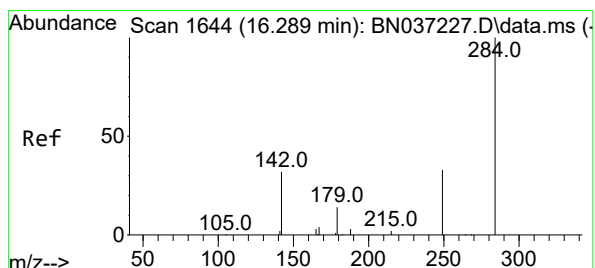
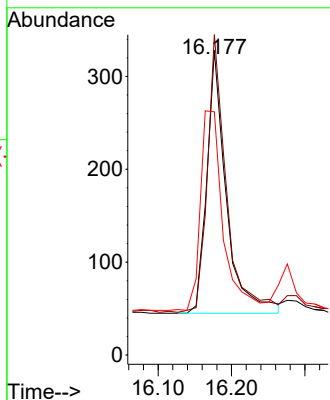
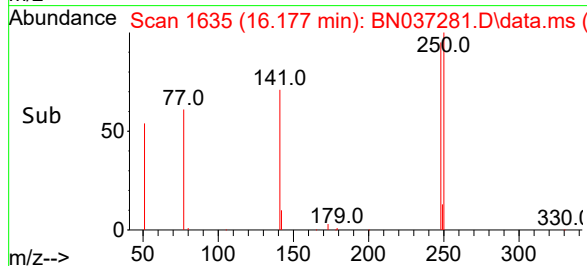
Instrument :
BNA_N
ClientSampleId :
PB168476BSD



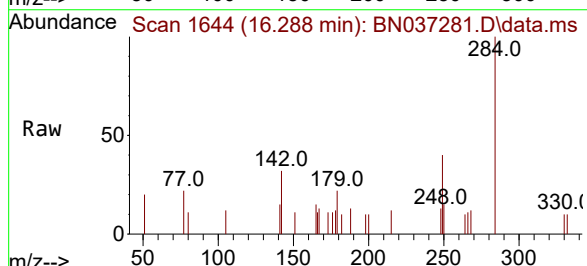
Tgt Ion:248 Resp: 520
Ion Ratio Lower Upper
248 100
250 105.2 76.8 115.2
141 79.9 75.6 113.4

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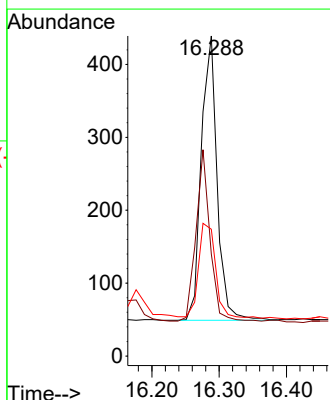
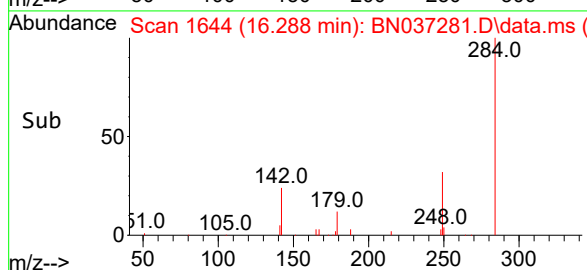
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

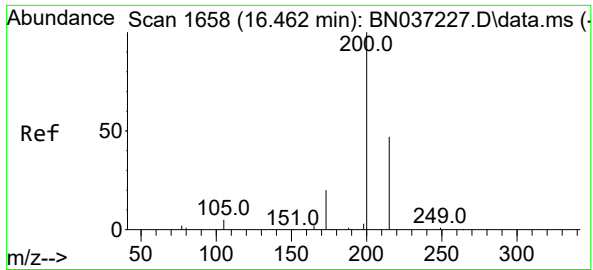


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.288 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18



Tgt Ion:284 Resp: 639
Ion Ratio Lower Upper
284 100
142 53.4 43.8 65.6
249 38.3 28.4 42.6





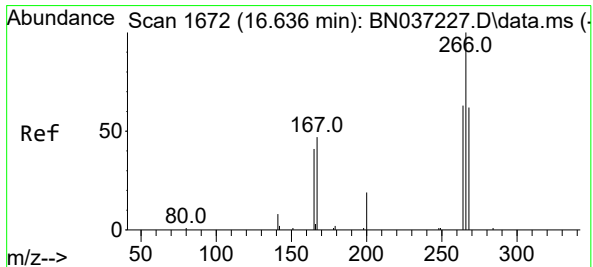
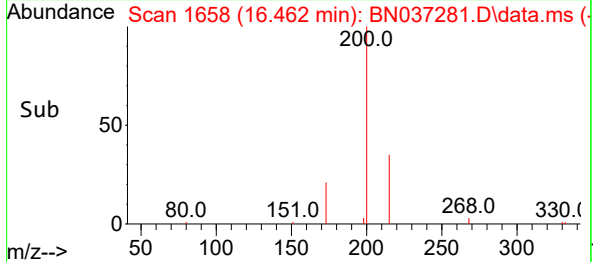
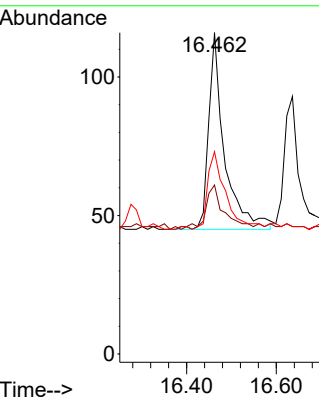
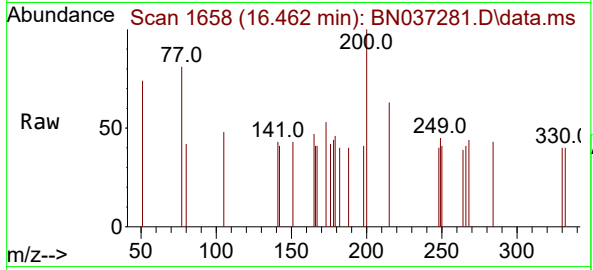
#23
Atrazine
Concen: 0.133 ng
RT: 16.462 min Scan# 1658
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

Tgt Ion:200 Resp: 174
Ion Ratio Lower Upper
200 100
173 52.6 25.1 37.7
215 62.9 43.7 65.5

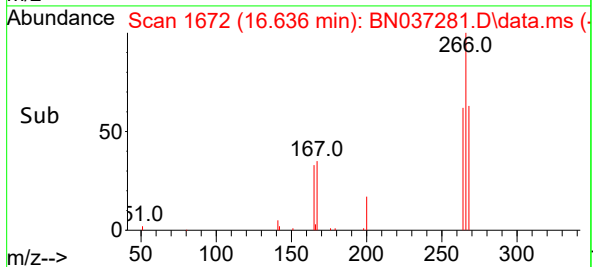
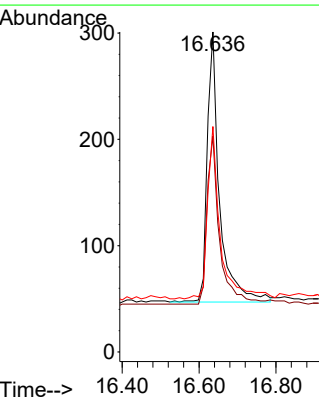
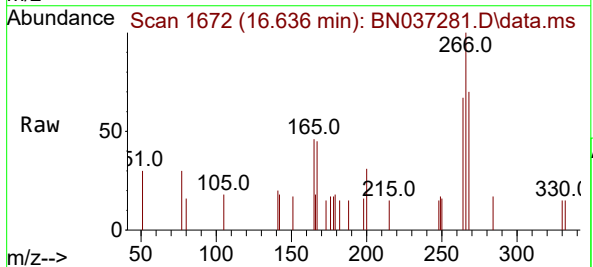
Manual Integrations
APPROVED

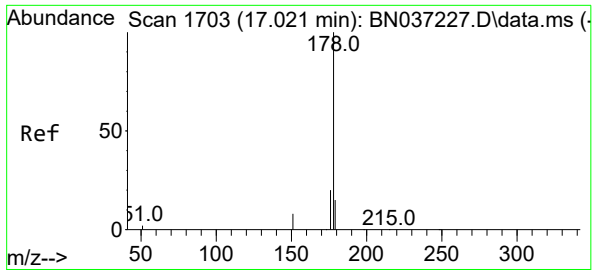
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#24
Pentachlorophenol
Concen: 0.674 ng
RT: 16.636 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:266 Resp: 563
Ion Ratio Lower Upper
266 100
264 63.2 49.2 73.8
268 65.7 53.4 80.2





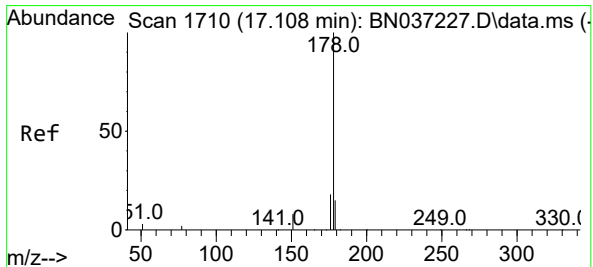
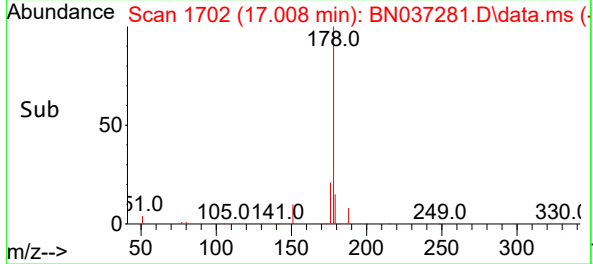
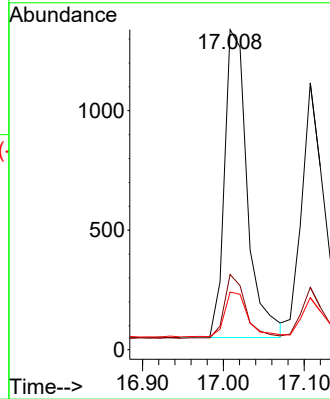
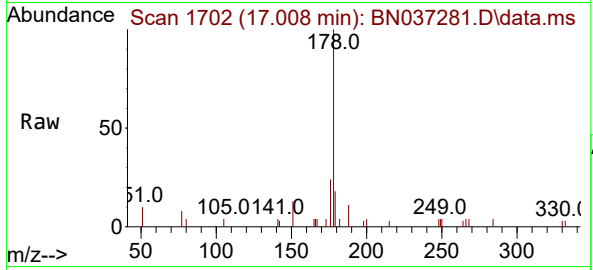
#25
Phenanthrene
Concen: 0.354 ng
RT: 17.008 min Scan# 1710
Delta R.T. -0.013 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

Tgt Ion:178 Resp: 253
Ion Ratio Lower Upper
178 100
176 19.5 16.3 24.5
179 14.5 12.6 18.8

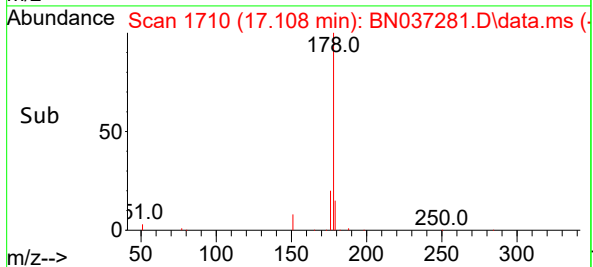
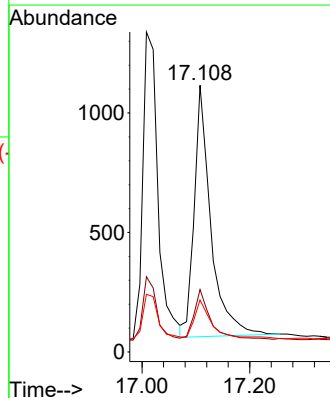
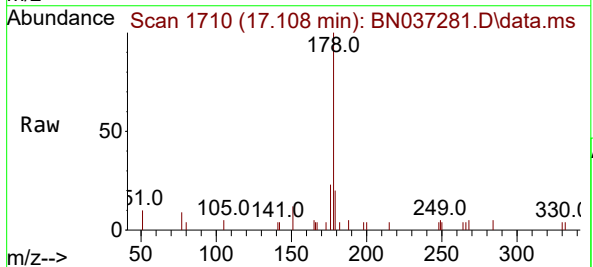
Manual Integrations
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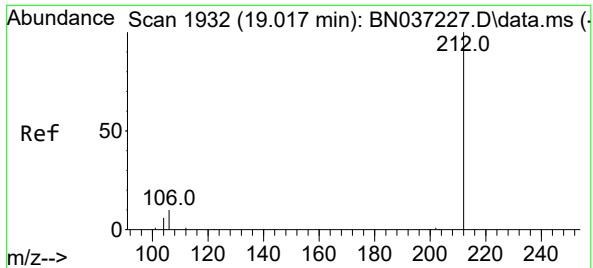
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#26
Anthracene
Concen: 0.346 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:178 Resp: 2265
Ion Ratio Lower Upper
178 100
176 20.0 15.1 22.7
179 16.3 12.4 18.6





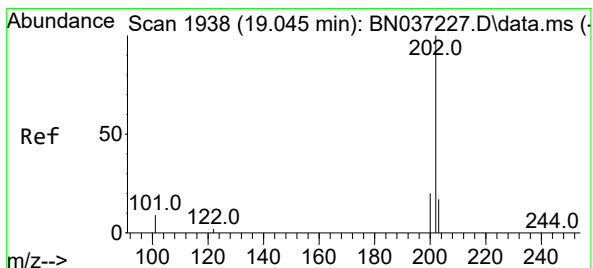
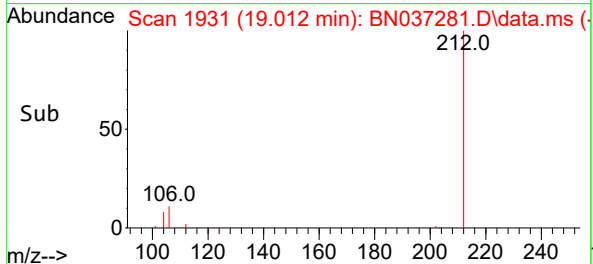
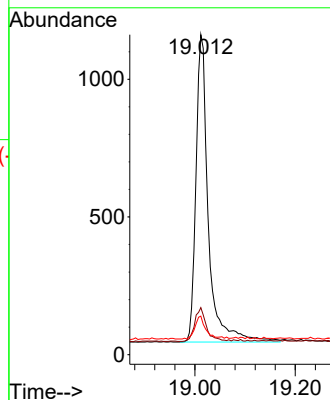
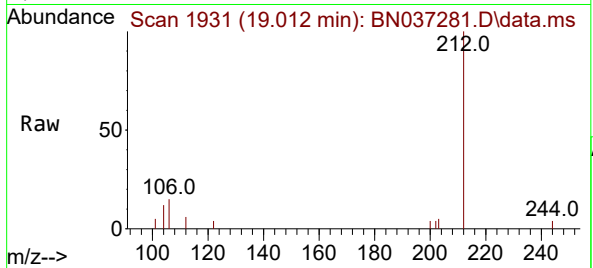
#27
Fluoranthene-d10
Concen: 0.323 ng
RT: 19.012 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

Tgt Ion:212 Resp: 190
Ion Ratio Lower Upper
212 100
106 10.3 9.3 13.9
104 6.3 5.7 8.5

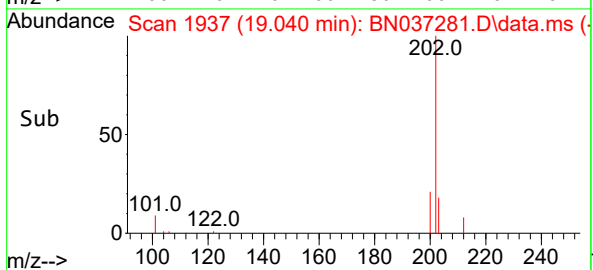
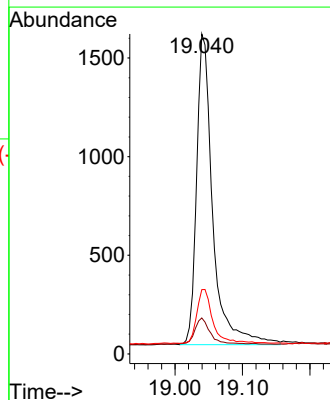
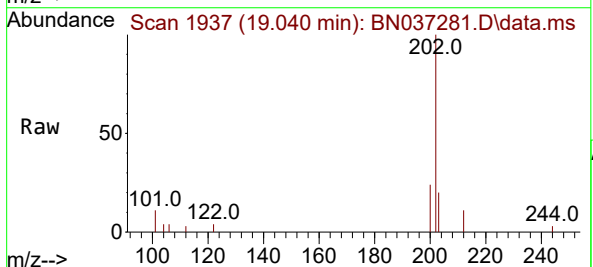
Manual Integrations
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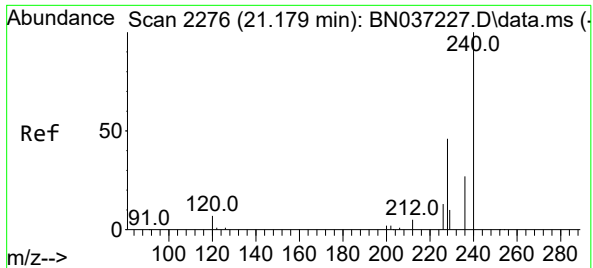
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#28
Fluoranthene
Concen: 0.312 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.005 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:202 Resp: 2616
Ion Ratio Lower Upper
202 100
101 8.7 7.1 10.7
203 17.4 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.170 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

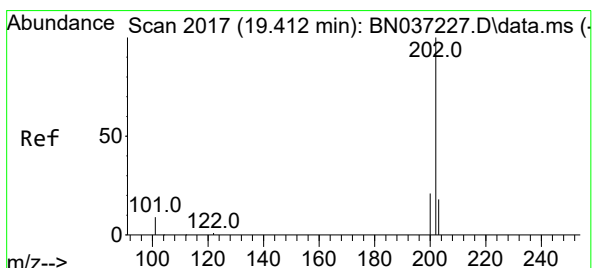
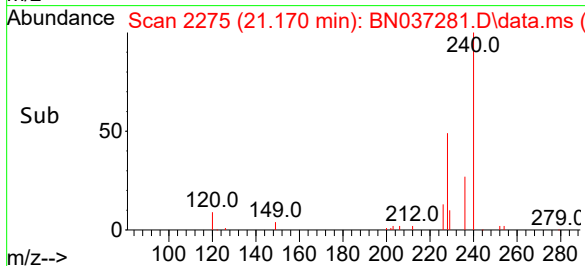
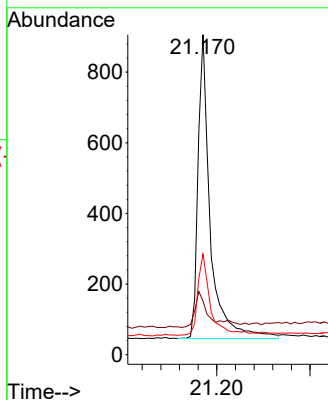
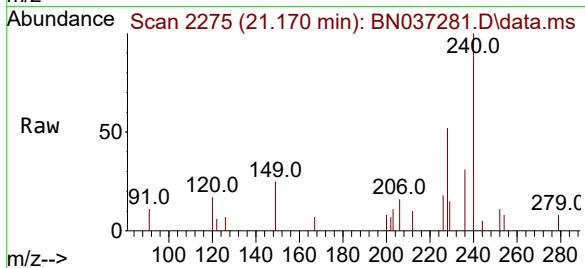
Instrument :

BNA_N

ClientSampleId :

PB168476BSD

Tgt Ion:	240	Resp:	156
Ion Ratio	Lower	Upper	
240	100		
120	16.8	11.3	16.9
236	31.5	24.4	36.6

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

#30

Pyrene

Concen: 0.354 ng

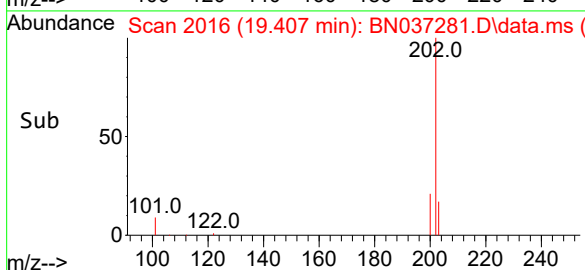
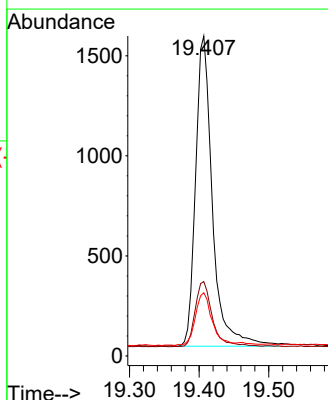
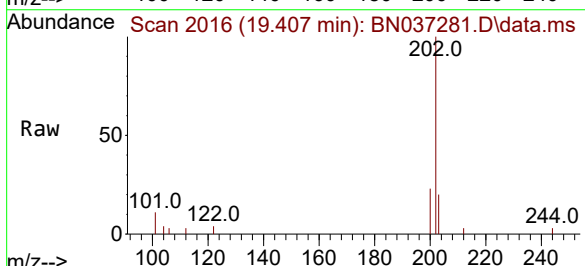
RT: 19.407 min Scan# 2016

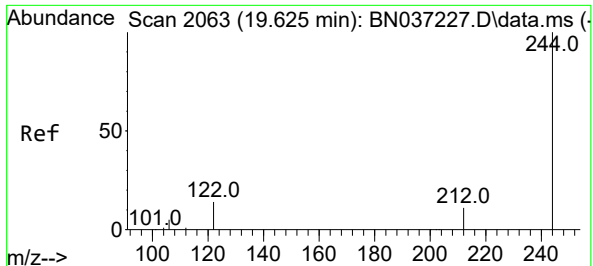
Delta R.T. -0.005 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Tgt Ion:	202	Resp:	2606
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.2	25.8
203	17.1	14.3	21.5





#31

Terphenyl-d14

Concen: 0.359 ng

RT: 19.625 min Scan# 2063

Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

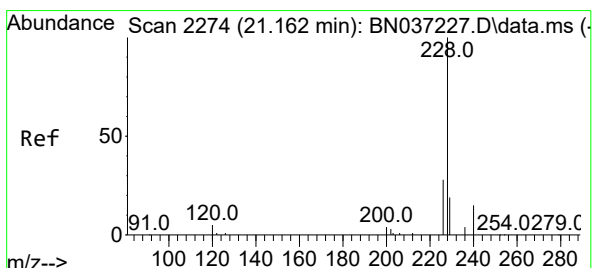
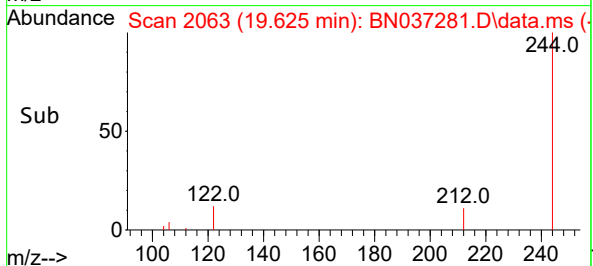
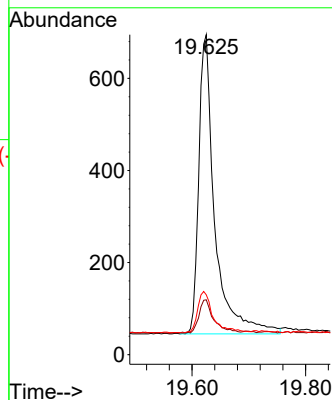
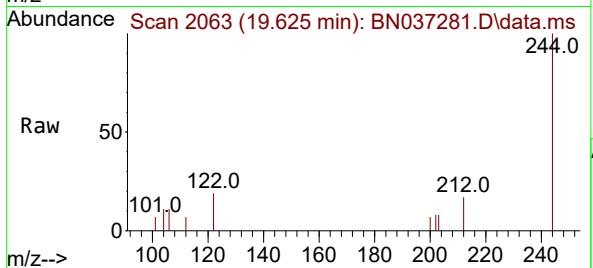
PB168476BSD

Tgt Ion:244	Resp:	1269
Ion Ratio	Lower	Upper
244	100	
212	17.1	12.2 18.2
122	18.7	14.3 21.5

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32

Benzo(a)anthracene

Concen: 0.345 ng

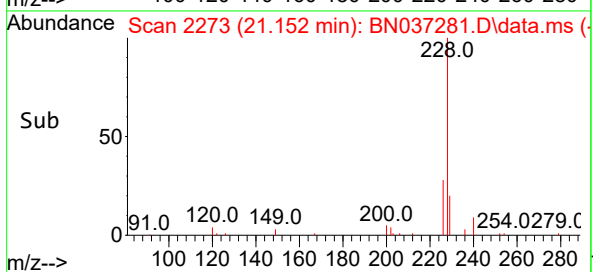
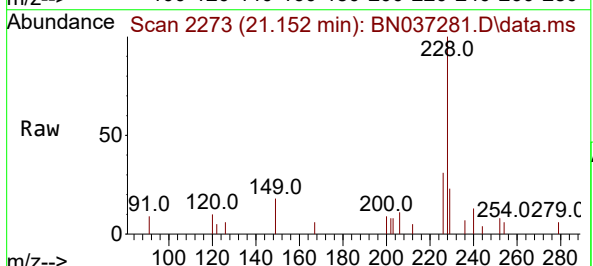
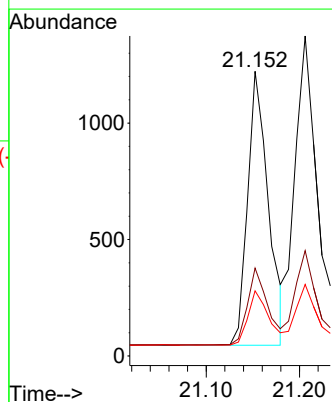
RT: 21.152 min Scan# 2273

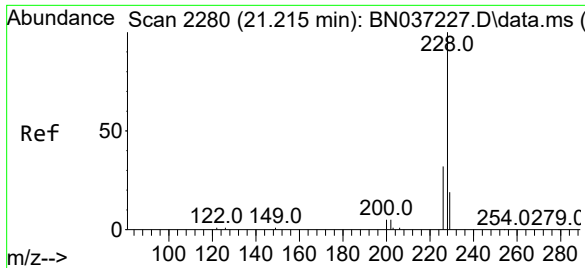
Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Tgt Ion:228	Resp:	1822
Ion Ratio	Lower	Upper
228	100	
226	30.9	23.8 35.8
229	22.9	17.0 25.4





#33

Chrysene

Concen: 0.378 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

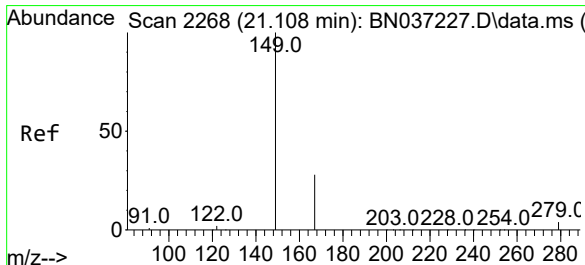
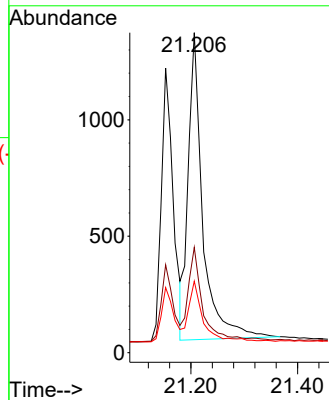
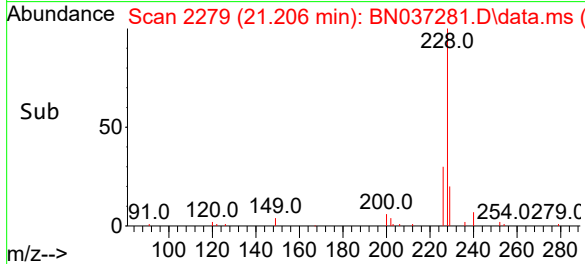
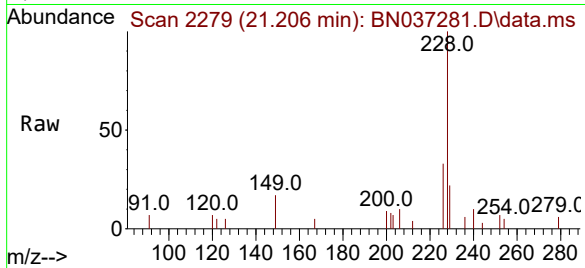
Instrument :

BNA_N

ClientSampleId :

PB168476BSD

Tgt Ion:	228	Resp:	248
Ion Ratio	Lower	Upper	
228	100		
226	32.9	25.8	38.6
229	22.3	17.0	25.4

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

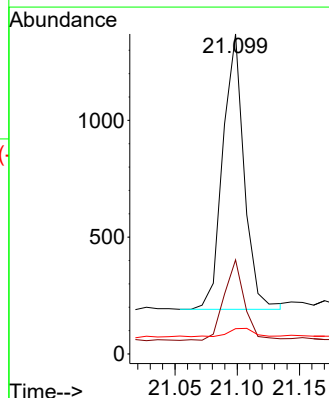
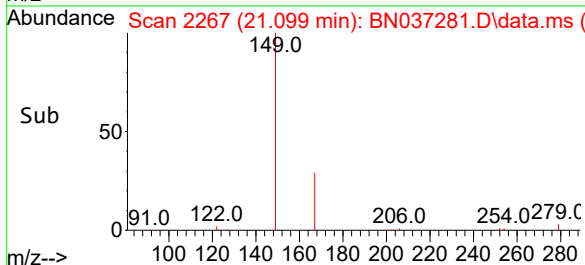
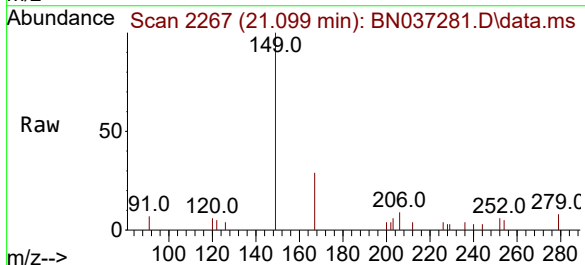
RT: 21.099 min Scan# 2267

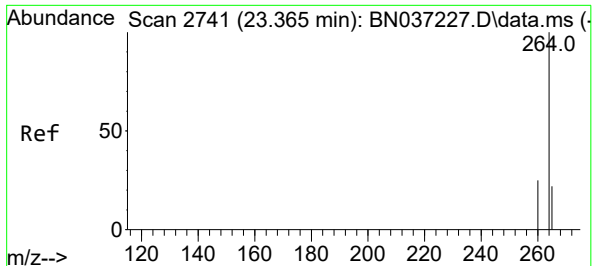
Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Tgt Ion:	149	Resp:	1409
Ion Ratio	Lower	Upper	
149	100		
167	28.0	21.3	31.9
279	3.7	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037281.D

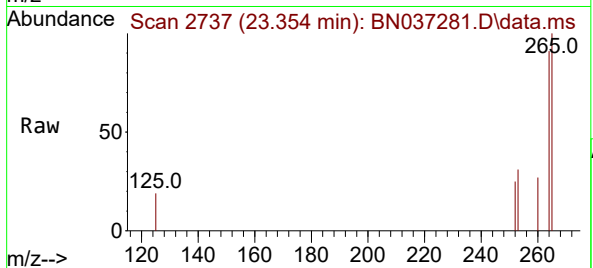
Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

PB168476BSD



Tgt Ion:264 Resp: 1270

Ion Ratio Lower Upper

264 100

260 30.0 22.8 34.2

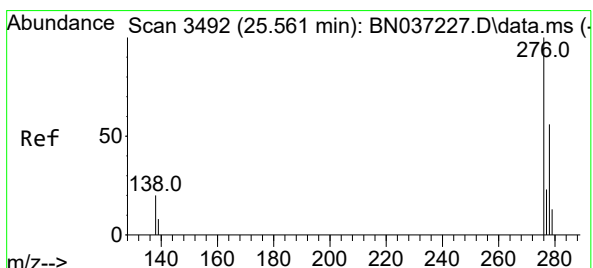
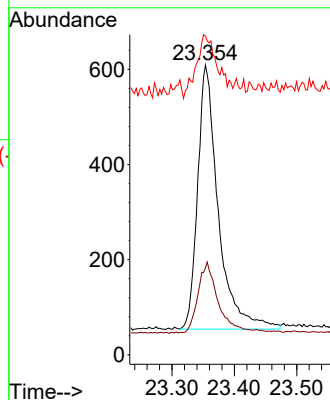
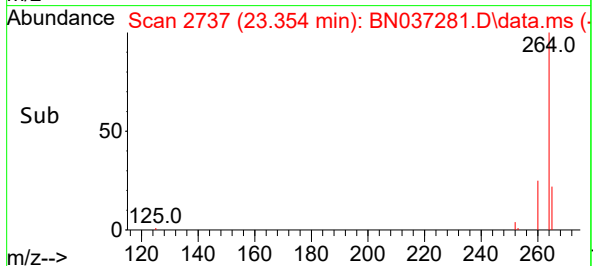
265 110.0 66.4 99.6

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#36

Indeno(1,2,3-cd)pyrene

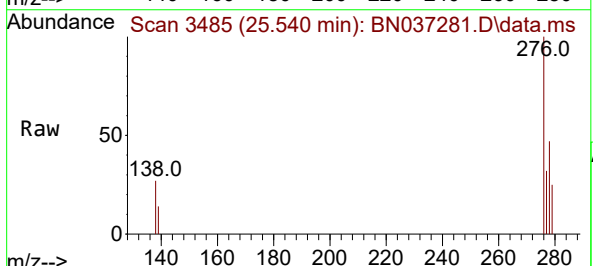
Concen: 0.455 ng

RT: 25.540 min Scan# 3485

Delta R.T. -0.021 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18



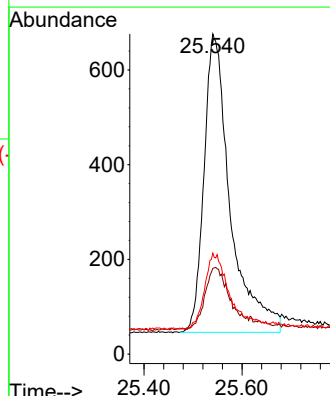
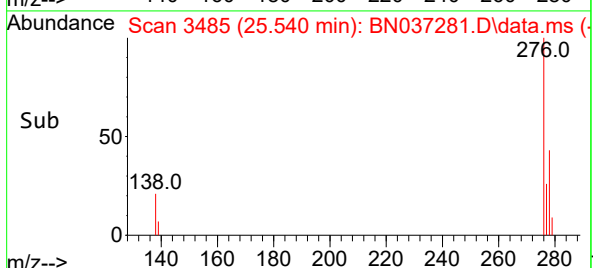
Tgt Ion:276 Resp: 2342

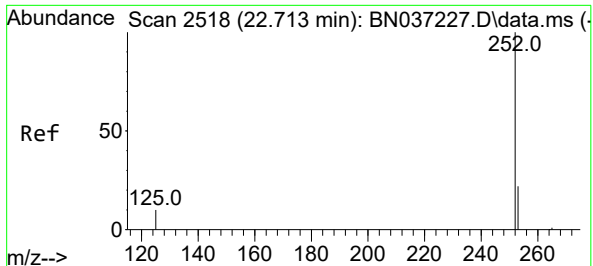
Ion Ratio Lower Upper

276 100

138 19.6 16.8 25.2

277 24.8 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.425 ng

RT: 22.702 min Scan# 2514

Delta R.T. -0.012 min

Lab File: BN037281.D

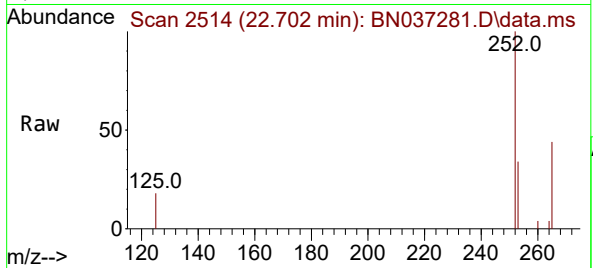
Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

PB168476BSD



Tgt Ion:252 Resp: 1980

Ion Ratio Lower Upper

252 100

253 34.4 24.9 37.3

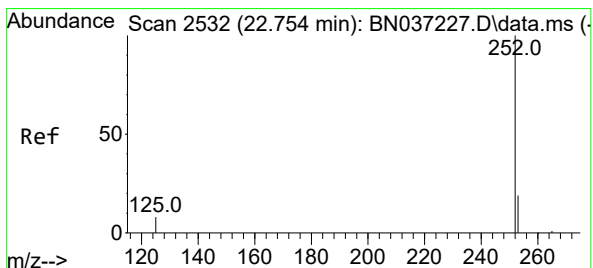
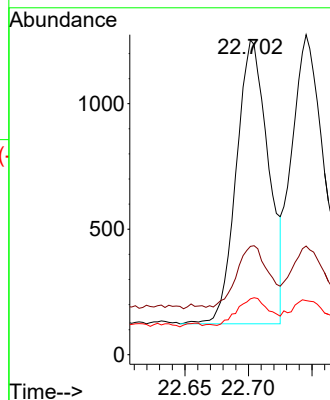
125 17.8 12.9 19.3

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#38

Benzo(k)fluoranthene

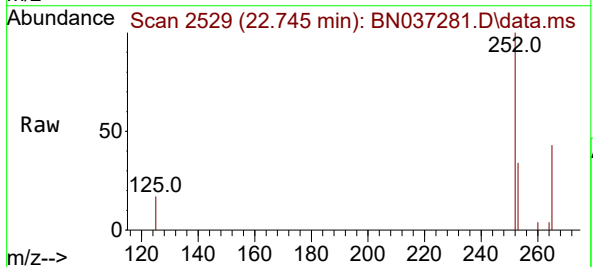
Concen: 0.402 ng

RT: 22.745 min Scan# 2529

Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18



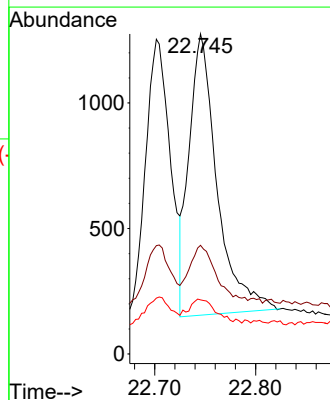
Tgt Ion:252 Resp: 2165

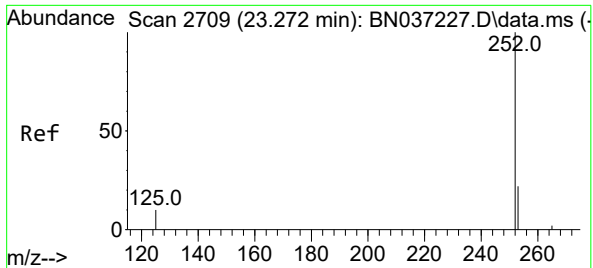
Ion Ratio Lower Upper

252 100

253 34.0 24.6 37.0

125 16.9 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

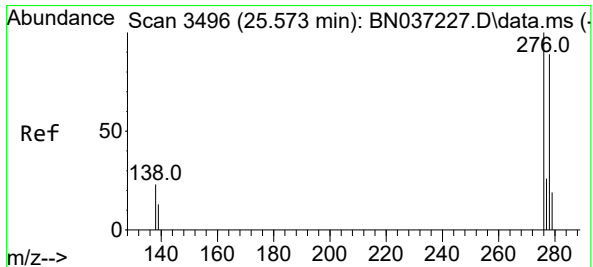
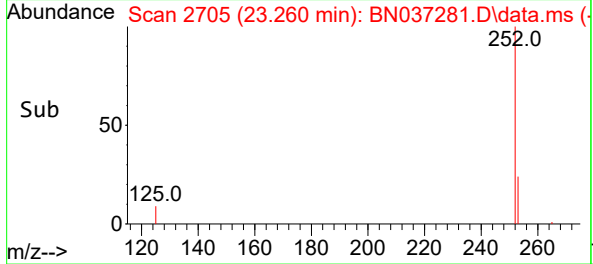
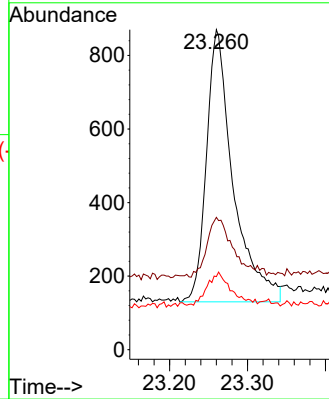
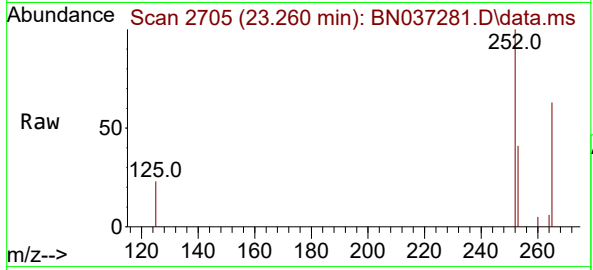
ClientSampleId :

PB168476BSD

Tgt Ion:	252	Resp:	176
Ion Ratio	Lower	Upper	
252	100		
253	41.4	29.4	44.2
125	22.9	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.446 ng

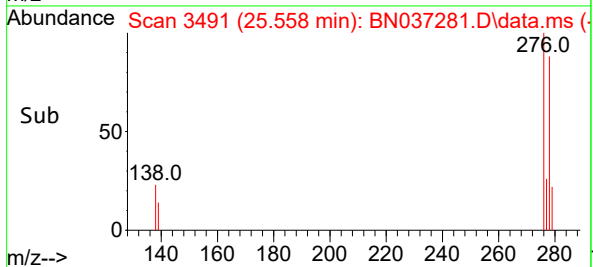
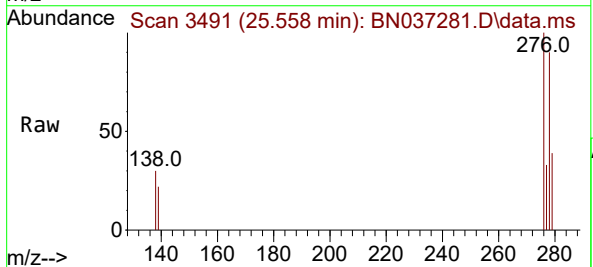
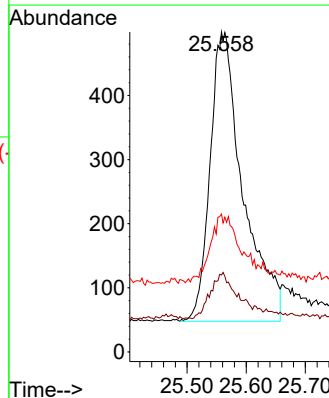
RT: 25.558 min Scan# 3491

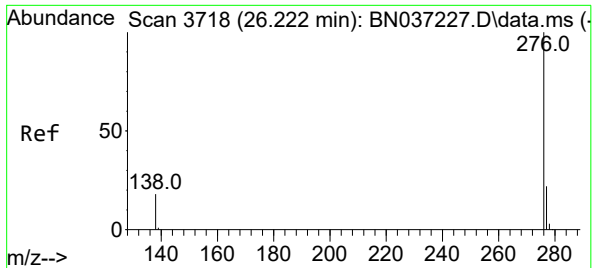
Delta R.T. -0.015 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Tgt Ion:	278	Resp:	1744
Ion Ratio	Lower	Upper	
278	100		
139	24.0	17.8	26.6
279	43.1	31.3	46.9





#41

Benzo(g,h,i)perylene

Concen: 0.422 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037281.D

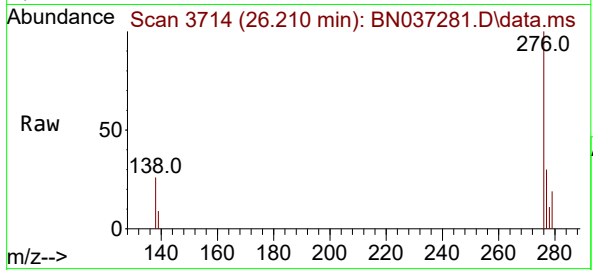
Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

PB168476BSD



Tgt Ion: 276 Resp: 2014

Ion Ratio Lower Upper

276 100

277 30.2 22.0 33.0

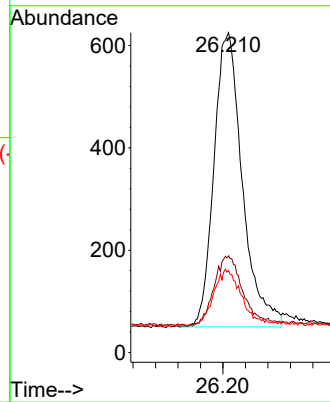
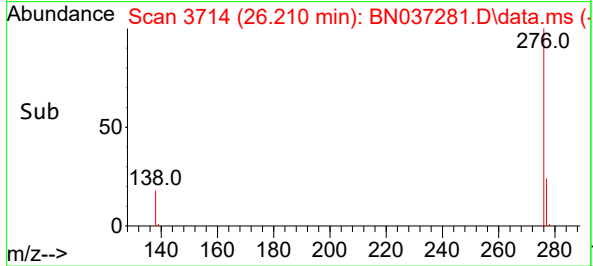
138 25.6 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



Manual Integration Report

Sequence:

BN061325

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN037225.D	Benzo(k)fluoranthene	anahy	6/16/2025 10:00:46 AM	Jagrut	6/16/2025 10:17:11 AM	Peak Integrated by Software
SSTDICC0.1	BN037225.D	Dibenzo(a,h)anthracene	anahy	6/16/2025 10:00:46 AM	Jagrut	6/16/2025 10:17:11 AM	Peak Integrated by Software
PB168476BS	BN037280.D	2-Methylnaphthalene-d1 0	anahy	6/16/2025 10:04:48 AM	Jagrut	6/16/2025 10:17:04 AM	Peak Integrated by Software
PB168476BSD	BN037281.D	2-Methylnaphthalene-d1 0	anahy	6/16/2025 10:05:29 AM	Jagrut	6/16/2025 10:17:06 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037223.D	13 Jun 2025 11:34	RC/JU	Ok
2	SSTDCCC0.4	BN037224.D	13 Jun 2025 12:50	RC/JU	Not Ok
3	SSTDICC0.1	BN037225.D	13 Jun 2025 13:33	RC/JU	Ok,M
4	SSTDICC0.2	BN037226.D	13 Jun 2025 14:10	RC/JU	Ok
5	SSTDICCC0.4	BN037227.D	13 Jun 2025 14:46	RC/JU	Ok
6	SSTDICC0.8	BN037228.D	13 Jun 2025 15:22	RC/JU	Ok
7	SSTDICC1.6	BN037229.D	13 Jun 2025 15:59	RC/JU	Ok
8	SSTDICC3.2	BN037230.D	13 Jun 2025 16:35	RC/JU	Ok
9	SSTDICC5.0	BN037231.D	13 Jun 2025 17:11	RC/JU	Ok
10	SSTDICV0.4	BN037232.D	13 Jun 2025 17:47	RC/JU	Ok
11	PB168391BL	BN037233.D	13 Jun 2025 19:00	RC/JU	Ok
12	Q2275-01	BN037234.D	13 Jun 2025 19:36	RC/JU	Ok
13	Q2275-03	BN037235.D	13 Jun 2025 20:12	RC/JU	Ok
14	PB168391BS	BN037236.D	13 Jun 2025 20:49	RC/JU	Ok,M
15	PB168391BSD	BN037237.D	13 Jun 2025 21:25	RC/JU	Ok,M
16	SSTDCCC0.4	BN037238.D	13 Jun 2025 22:01	RC/JU	Ok
17	DFTPP	BN037239.D	13 Jun 2025 23:16	RC/JU	Ok
18	SSTDCCC0.4	BN037240.D	13 Jun 2025 23:55	RC/JU	Ok
19	PB168458BL	BN037241.D	14 Jun 2025 00:31	RC/JU	Ok
20	Q2263-01	BN037242.D	14 Jun 2025 01:08	RC/JU	Ok
21	Q2263-02	BN037243.D	14 Jun 2025 01:44	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2299-01	BN037244.D	14 Jun 2025 02:20	RC/JU	Ok
23	Q2299-02	BN037245.D	14 Jun 2025 02:56	RC/JU	Ok
24	Q2299-03MS	BN037246.D	14 Jun 2025 03:32	RC/JU	Ok,M
25	Q2299-04MSD	BN037247.D	14 Jun 2025 04:08	RC/JU	Ok,M
26	Q2299-05	BN037248.D	14 Jun 2025 04:45	RC/JU	Ok
27	Q2299-06	BN037249.D	14 Jun 2025 05:21	RC/JU	Ok
28	Q2299-07	BN037250.D	14 Jun 2025 05:57	RC/JU	Ok
29	Q2299-08	BN037251.D	14 Jun 2025 06:33	RC/JU	Ok
30	Q2299-09	BN037252.D	14 Jun 2025 07:09	RC/JU	Ok
31	Q2299-10	BN037253.D	14 Jun 2025 07:46	RC/JU	Ok
32	Q2299-11	BN037254.D	14 Jun 2025 08:22	RC/JU	Ok
33	Q2299-12	BN037255.D	14 Jun 2025 08:58	RC/JU	Ok
34	Q2299-13	BN037256.D	14 Jun 2025 09:34	RC/JU	Dilution
35	SSTDCCC0.4	BN037257.D	14 Jun 2025 10:10	RC/JU	Ok
36	DFTPP	BN037258.D	14 Jun 2025 12:44	RC/JU	Ok
37	SSTDCCC0.4	BN037259.D	14 Jun 2025 13:23	RC/JU	Ok
38	PB168336BL	BN037260.D	14 Jun 2025 13:59	RC/JU	Ok
39	Q2299-14	BN037261.D	14 Jun 2025 14:35	RC/JU	Dilution
40	Q2299-15	BN037262.D	14 Jun 2025 15:11	RC/JU	Ok
41	Q2299-16	BN037263.D	14 Jun 2025 15:47	RC/JU	Ok
42	Q2299-17	BN037264.D	14 Jun 2025 16:23	RC/JU	Dilution
43	Q2299-18	BN037265.D	14 Jun 2025 17:00	RC/JU	Ok
44	Q2299-19	BN037266.D	14 Jun 2025 17:36	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	Q2299-20	BN037267.D	14 Jun 2025 18:12	RC/JU	Ok
46	Q2299-21	BN037268.D	14 Jun 2025 18:48	RC/JU	Ok
47	Q2299-22	BN037269.D	14 Jun 2025 19:24	RC/JU	Ok
48	PB168458BS	BN037270.D	14 Jun 2025 20:00	RC/JU	Ok,M
49	SSTDCCC0.4	BN037271.D	14 Jun 2025 20:36	RC/JU	Ok
50	DFTPP	BN037272.D	14 Jun 2025 21:51	RC/JU	Ok
51	SSTDCCC0.4	BN037273.D	14 Jun 2025 22:31	RC/JU	Ok
52	PB168476BL	BN037274.D	14 Jun 2025 23:07	RC/JU	Ok
53	Q2314-04	BN037275.D	14 Jun 2025 23:43	RC/JU	Ok
54	Q2314-05	BN037276.D	15 Jun 2025 00:18	RC/JU	Ok
55	Q2314-06	BN037277.D	15 Jun 2025 00:54	RC/JU	Ok
56	Q2316-01	BN037278.D	15 Jun 2025 01:30	RC/JU	Ok
57	Q2316-02	BN037279.D	15 Jun 2025 02:06	RC/JU	Ok
58	PB168476BS	BN037280.D	15 Jun 2025 02:42	RC/JU	Ok,M
59	PB168476BSD	BN037281.D	15 Jun 2025 03:18	RC/JU	Ok,M
60	SSTDCCC0.4	BN037282.D	15 Jun 2025 03:54	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037223.D	13 Jun 2025 11:34		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037224.D	13 Jun 2025 12:50	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037225.D	13 Jun 2025 13:33	Compound #02,03,20,24,34 removed from 0.1 PPM	RC/JU	Ok,M
4	SSTDICC0.2	SSTDICC0.2	BN037226.D	13 Jun 2025 14:10		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037227.D	13 Jun 2025 14:46	Compound#20 Kept on QR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037228.D	13 Jun 2025 15:22		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037229.D	13 Jun 2025 15:59		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037230.D	13 Jun 2025 16:35		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037231.D	13 Jun 2025 17:11		RC/JU	Ok
10	SSTDICV0.4	ICVBN061325	BN037232.D	13 Jun 2025 17:47		RC/JU	Ok
11	PB168391BL	PB168391BL	BN037233.D	13 Jun 2025 19:00		RC/JU	Ok
12	Q2275-01	OW-08B-72.5-060925	BN037234.D	13 Jun 2025 19:36		RC/JU	Ok
13	Q2275-03	EB01-060925	BN037235.D	13 Jun 2025 20:12		RC/JU	Ok
14	PB168391BS	PB168391BS	BN037236.D	13 Jun 2025 20:49		RC/JU	Ok,M
15	PB168391BSD	PB168391BSD	BN037237.D	13 Jun 2025 21:25		RC/JU	Ok,M
16	SSTDCCC0.4	SSTDCCC0.4EC	BN037238.D	13 Jun 2025 22:01		RC/JU	Ok
17	DFTPP	DFTPP	BN037239.D	13 Jun 2025 23:16		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	SSTDCCC0.4	SSTDCCC0.4	BN037240.D	13 Jun 2025 23:55		RC/JU	Ok
19	PB168458BL	PB168458BL	BN037241.D	14 Jun 2025 00:31		RC/JU	Ok
20	Q2263-01	RW9-MW01D3-202506	BN037242.D	14 Jun 2025 01:08		RC/JU	Ok
21	Q2263-02	RW9-MW01S-2025060	BN037243.D	14 Jun 2025 01:44		RC/JU	Ok
22	Q2299-01	RE117D1-20250609	BN037244.D	14 Jun 2025 02:20		RC/JU	Ok
23	Q2299-02	RE117D2-20250609	BN037245.D	14 Jun 2025 02:56		RC/JU	Ok
24	Q2299-03MS	TT191D1-20250609MS	BN037246.D	14 Jun 2025 03:32		RC/JU	Ok,M
25	Q2299-04MSD	TT191D1-20250609MS	BN037247.D	14 Jun 2025 04:08		RC/JU	Ok,M
26	Q2299-05	TT191D1-20250609	BN037248.D	14 Jun 2025 04:45		RC/JU	Ok
27	Q2299-06	TT191D2-20250609	BN037249.D	14 Jun 2025 05:21		RC/JU	Ok
28	Q2299-07	RW10-MW01S-202506	BN037250.D	14 Jun 2025 05:57		RC/JU	Ok
29	Q2299-08	RW10-MW01D-202506	BN037251.D	14 Jun 2025 06:33		RC/JU	Ok
30	Q2299-09	RW10A-MW01S-20250	BN037252.D	14 Jun 2025 07:09		RC/JU	Ok
31	Q2299-10	RW10A-MW01I-202506	BN037253.D	14 Jun 2025 07:46		RC/JU	Ok
32	Q2299-11	TT158I1-20250610	BN037254.D	14 Jun 2025 08:22		RC/JU	Ok
33	Q2299-12	DUP01-20250610	BN037255.D	14 Jun 2025 08:58		RC/JU	Ok
34	Q2299-13	RE131D2-20250610	BN037256.D	14 Jun 2025 09:34	Need 5X Dilution	RC/JU	Dilution
35	SSTDCCC0.4	SSTDCCC0.4EC	BN037257.D	14 Jun 2025 10:10		RC/JU	Ok
36	DFTPP	DFTPP	BN037258.D	14 Jun 2025 12:44		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

37	SSTDCCC0.4	SSTDCCC0.4	BN037259.D	14 Jun 2025 13:23		RC/JU	Ok
38	PB168336BL	PB168336BL	BN037260.D	14 Jun 2025 13:59		RC/JU	Ok
39	Q2299-14	DUP02-20250610	BN037261.D	14 Jun 2025 14:35	Need 5X Dilution	RC/JU	Dilution
40	Q2299-15	TT174I1-20250610	BN037262.D	14 Jun 2025 15:11		RC/JU	Ok
41	Q2299-16	RE134D4-20250610	BN037263.D	14 Jun 2025 15:47		RC/JU	Ok
42	Q2299-17	RE134D3-20250610	BN037264.D	14 Jun 2025 16:23	Need 2X Dilution	RC/JU	Dilution
43	Q2299-18	TT190D1-20250611	BN037265.D	14 Jun 2025 17:00		RC/JU	Ok
44	Q2299-19	RW11-MW01I-20250611	BN037266.D	14 Jun 2025 17:36		RC/JU	Ok
45	Q2299-20	RW11-MW01S-20250611	BN037267.D	14 Jun 2025 18:12		RC/JU	Ok
46	Q2299-21	RE134D1-20250611	BN037268.D	14 Jun 2025 18:48		RC/JU	Ok
47	Q2299-22	TT190D2-20250611	BN037269.D	14 Jun 2025 19:24		RC/JU	Ok
48	PB168458BS	PB168458BS	BN037270.D	14 Jun 2025 20:00		RC/JU	Ok,M
49	SSTDCCC0.4	SSTDCCC0.4EC	BN037271.D	14 Jun 2025 20:36		RC/JU	Ok
50	DFTPP	DFTPP	BN037272.D	14 Jun 2025 21:51		RC/JU	Ok
51	SSTDCCC0.4	SSTDCCC0.4	BN037273.D	14 Jun 2025 22:31		RC/JU	Ok
52	PB168476BL	PB168476BL	BN037274.D	14 Jun 2025 23:07		RC/JU	Ok
53	Q2314-04	BP-VPB-182-GW-880-8	BN037275.D	14 Jun 2025 23:43		RC/JU	Ok
54	Q2314-05	BP-VPB-182-EB-20250611	BN037276.D	15 Jun 2025 00:18		RC/JU	Ok
55	Q2314-06	VPB182-HYD-20250611	BN037277.D	15 Jun 2025 00:54	Surrogate fail	RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

56	Q2316-01	RW8-SP100-20250612	BN037278.D	15 Jun 2025 01:30		RC/JU	Ok
57	Q2316-02	RW8-SP303-20250612	BN037279.D	15 Jun 2025 02:06		RC/JU	Ok
58	PB168476BS	PB168476BS	BN037280.D	15 Jun 2025 02:42		RC/JU	Ok,M
59	PB168476BSD	PB168476BSD	BN037281.D	15 Jun 2025 03:18		RC/JU	Ok,M
60	SSTDCCC0.4	SSTDCCC0.4EC	BN037282.D	15 Jun 2025 03:54		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 06/13/2025

Extraction Start Time : 11:00

Extraction End Date : 06/13/2025

Extraction End Time : 15:55

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	SP6758
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	E3939
Baked Na2SO4	N/A	EP2620
10N NaOH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
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# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/13/25 16:00	RP (Ext. 205)	Rdsvoc
	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 06/13/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168476BL	SBLK476	SVOC-SIMGrou p1	1000	6	RUPESH	Niha	1			SEP-1
PB168476BS	SLCS476	SVOC-SIMGrou p1	1000	6	RUPESH	Niha	1			2
PB168476BS D	SLCSD476	SVOC-SIMGrou p1	1000	6	RUPESH	Niha	1			3
Q2314-04	BP-VPB-182-GW-880-882	SVOC-SIMGrou p1	960	6	RUPESH	Niha	1	C		4
Q2314-05	BP-VPB-182-EB-2025061 2	SVOC-SIMGrou p1	970	6	RUPESH	Niha	1	C		5
Q2314-06	VPB182-HYD-20250605	SVOC-SIMGrou p1	980	6	RUPESH	Niha	1	C		6
Q2316-01	RW8-SP100-20250612	SVOC-SIMGrou p1	990	6	RUPESH	Niha	1	B		7
Q2316-02	RW8-SP303-20250612	SVOC-SIMGrou p1	980	6	RUPESH	Niha	1	D		8

* Extracts relinquished on the same date as received.

8
6/13/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2314 WorkList ID : 190190 Department : Extraction Date : 06-13-2025 10:59:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2314-04	BP-VPB-182-GW-880-882	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D41	06/12/2025	8270-Modified
Q2314-05	BP-VPB-182-EB-20250612	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D41	06/12/2025	8270-Modified
Q2314-06	VPB182-HYD-20250605	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D41	06/12/2025	8270-Modified
Q2316-01	RW8-SP100-20250612	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D41	06/12/2025	8270-Modified
Q2316-02	RW8-SP303-20250612	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D41	06/12/2025	8270-Modified

Date/Time 06/13/25 10:59
 Raw Sample Received by: As (Set 2025)
 Raw Sample Relinquished by: As (Set 2025)

Date/Time 06/13/25 10:20
 Raw Sample Received by: As (Set 2025)
 Raw Sample Relinquished by: As (Set 2025)

Prep Standard - Chemical Standard Summary

Order ID : Q2316
Test : SVOC-SIMGroup1
Prepbatch ID : PB168476,
Sequence ID/Qc Batch ID: BN061325,

Standard ID :
EP2609,EP2610,EP2620,SP6740,SP6756,SP6757,SP6758,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3874,E3902,E3904,E3915,E3926,E3939,M6157,S10104,S 11496,S11650,S11788,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,S12974,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

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	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 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	EP2620	05/30/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/30/2025

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	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = 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>
3492	8270-SIM-Spike 0.4 PPM	SP6756	03/24/2025	07/29/2025	Rahul Chavli	None	None	mohammad ahmed
04/07/2025								

FROM 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
04/01/2025								

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6758	04/03/2025	07/24/2025	Rahul Chavli	None	None	mohammad ahmed
								04/07/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
								04/16/2025

FROM 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 +
0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE FROM 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
FROM 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6775	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6776	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6777	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6779	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
FROM 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	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)	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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	01/07/2026	03/13/2025 / RUPESH	12/27/2024 / RUPESH	E3904

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	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

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	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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)	25A2862010	11/22/2025	05/22/2025 / RUPESH	02/28/2025 / RUPESH	E3939

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)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

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 #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

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	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

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	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

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	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Z-112090-04 **Lot No.:** 440246 **Storage:** $\leq -10^{\circ}\text{C}$ **Solvent:** Methylene Chloride **Exp. Date:** 2/16/2026 **Description:** CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
COMMENTS		
QC: PhC Irma Belmares		

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Avantor

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_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	10
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



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

E3902

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

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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

Recd. by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 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 3926

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3939

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

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Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantor**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	<= 500.0 ppb	<5.0 ppb
Trace Impurities – Strontium (Sr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities – Tin (Sn)	<= 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	<1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production



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Santa Rosa, CA 95403

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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** 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

511649
↓
511658
Y.P.
11/13/23

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 - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

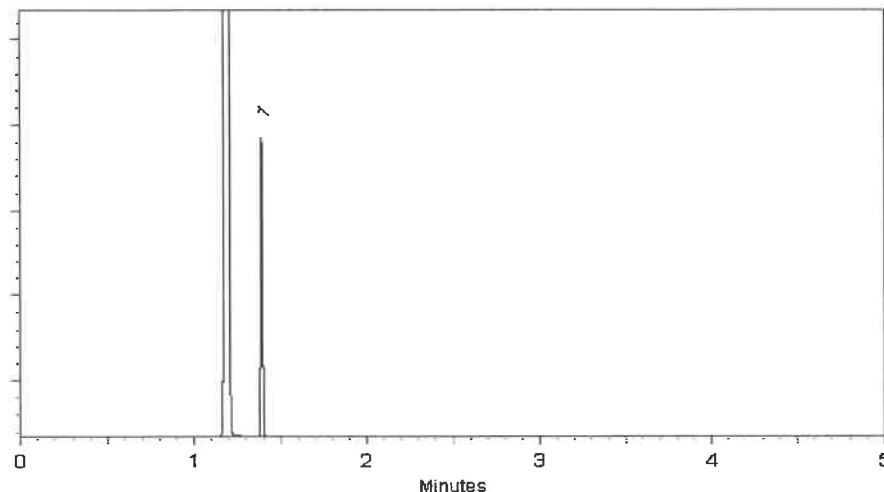
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

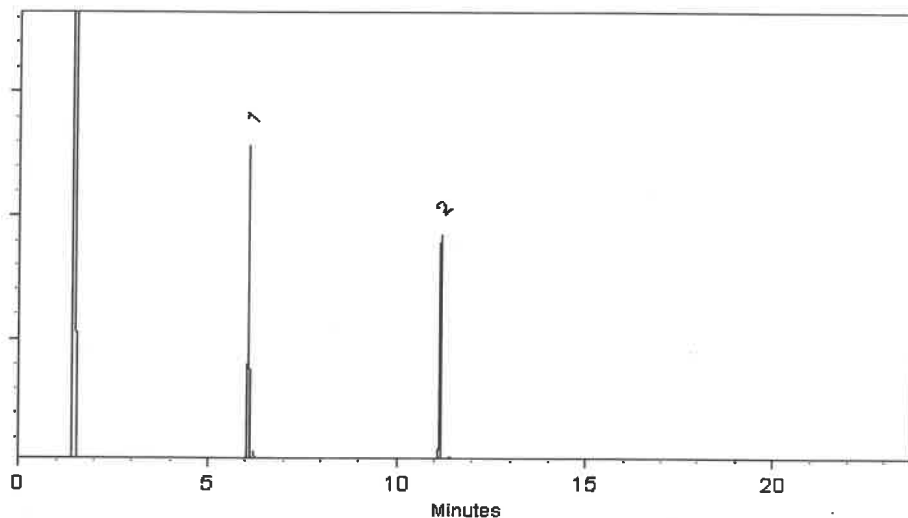
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

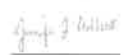


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

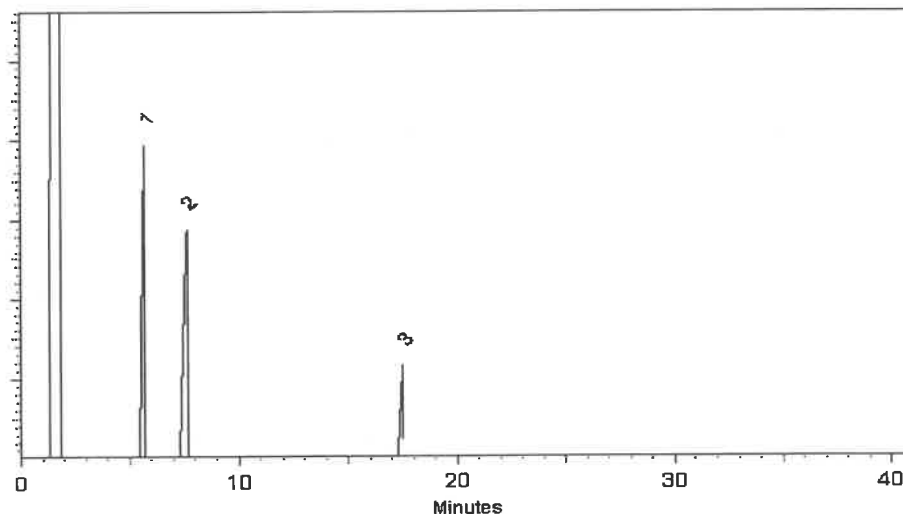
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

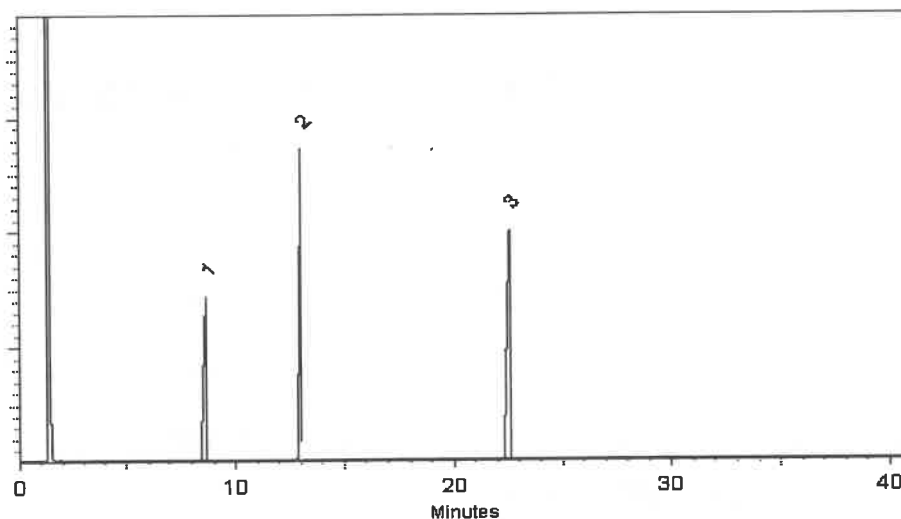
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	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

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

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

Page 2 of 4

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 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

Page 3 of 4

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 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

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
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

*Not a certified value



Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
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listed are determined gravimetrically.



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Certificate of Analysis

gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

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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. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955
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 : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577
↓
S12579 } RC
8/2/24

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.)

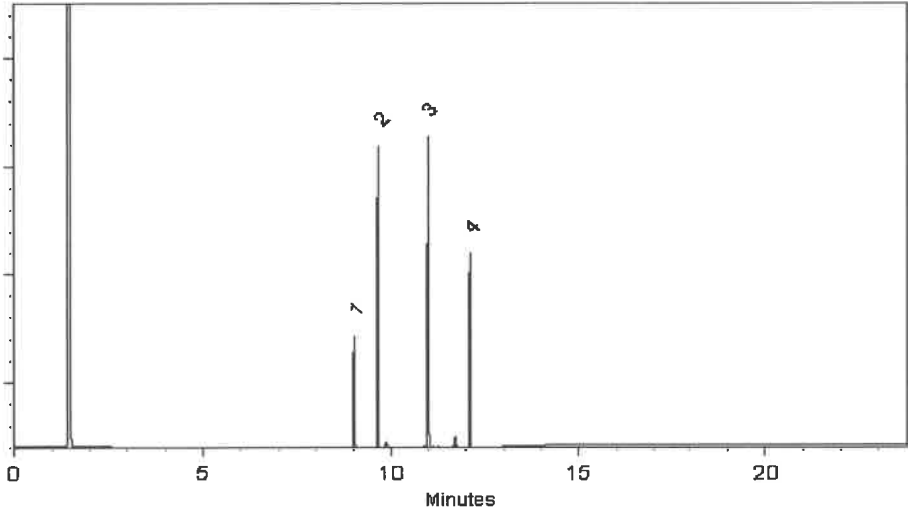
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

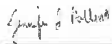
Inj. Vol
1µl



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.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

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 : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~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
↓
S12992 } AC
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	BCKK6969	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.



SHIPPING DOCUMENTS

- 1
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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037225.D
 Acq On : 13 Jun 2025 13:33
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

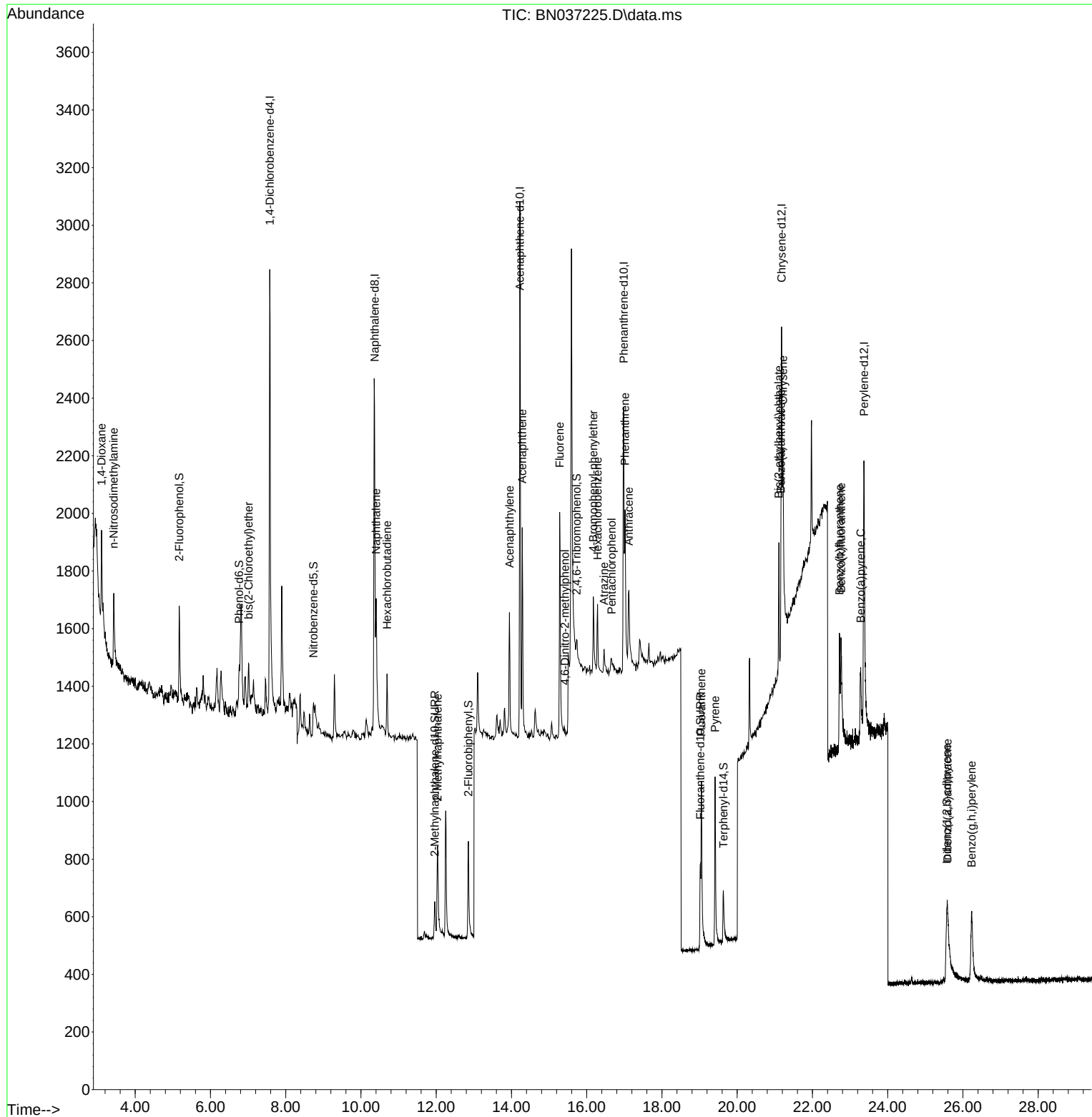
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Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	859	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2097	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1114	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1916	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1546	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1617	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	224	0.106	ng	0.00
5) Phenol-d6	6.759	99	188	0.085	ng	0.00
8) Nitrobenzene-d5	8.739	82	192	0.093	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	260	0.092	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	35	0.076	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	436	0.093	ng	0.00
27) Fluoranthene-d10	19.021	212	486	0.097	ng	0.00
31) Terphenyl-d14	19.635	244	315	0.090	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	145	0.123	ng	# 54
3) n-Nitrosodimethylamine	3.429	42	293	0.109	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	165	0.083	ng	85
9) Naphthalene	10.404	128	622	0.102	ng	# 77
10) Hexachlorobutadiene	10.693	225	157	0.106	ng	# 95
12) 2-Methylnaphthalene	12.036	142	331	0.090	ng	# 93
16) Acenaphthylene	13.946	152	531	0.097	ng	95
17) Acenaphthene	14.288	154	346	0.098	ng	96
18) Fluorene	15.282	166	430	0.095	ng	100
20) 4,6-Dinitro-2-methylph...	15.421	198	15	0.146	ng	# 26
21) 4-Bromophenyl-phenylether	16.177	248	119	0.095	ng	91
22) Hexachlorobenzene	16.289	284	164	0.113	ng	96
23) Atrazine	16.462	200	107	0.096	ng	# 63
24) Pentachlorophenol	16.661	266	52	0.073	ng	# 82
25) Phenanthrene	17.021	178	600	0.099	ng	100
26) Anthracene	17.120	178	524	0.094	ng	100
28) Fluoranthene	19.049	202	704	0.099	ng	99
30) Pyrene	19.412	202	715	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	454	0.087	ng	# 79
33) Chrysene	21.215	228	689	0.106	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.108	149	432	0.111	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.570	276	609	0.093	ng	# 74
37) Benzo(b)fluoranthene	22.719	252	529	0.089	ng	# 41
38) Benzo(k)fluoranthene	22.760	252	488	0.072	ng	# 40
39) Benzo(a)pyrene	23.284	252	514	0.097	ng	# 23
40) Dibenzo(a,h)anthracene	25.590	278	313	0.064	ng	# 13
41) Benzo(g,h,i)perylene	26.228	276	608	0.101	ng	# 64

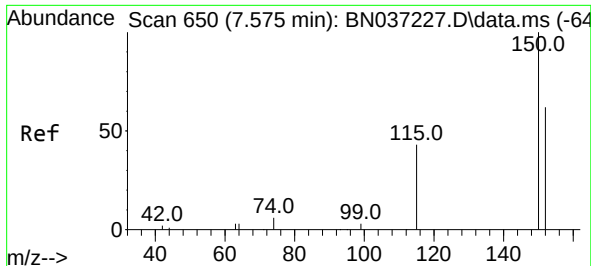
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Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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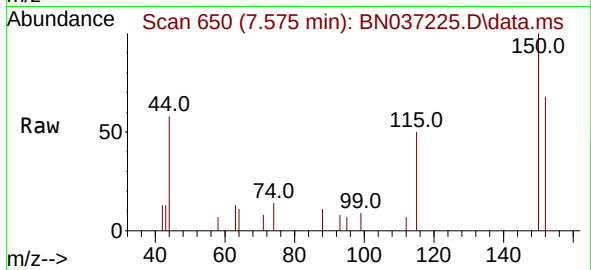
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration



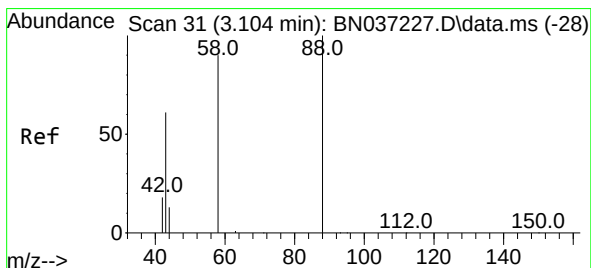
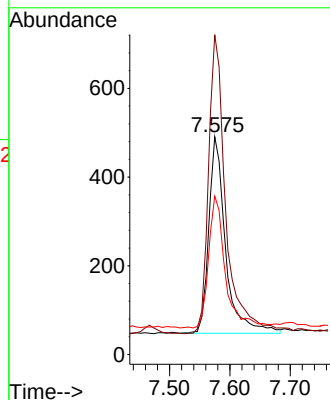
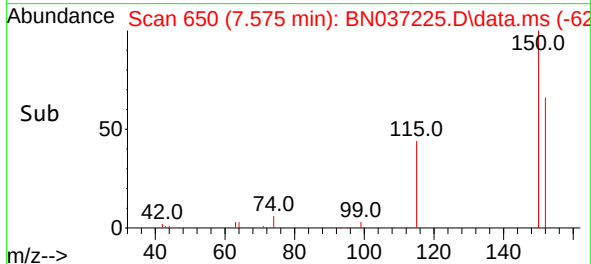


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

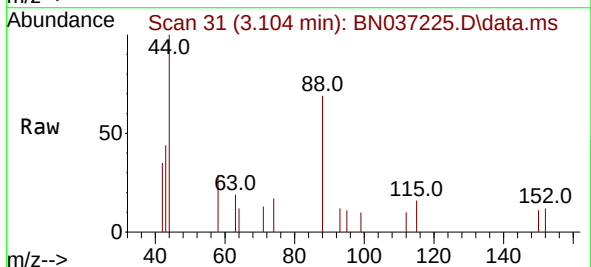
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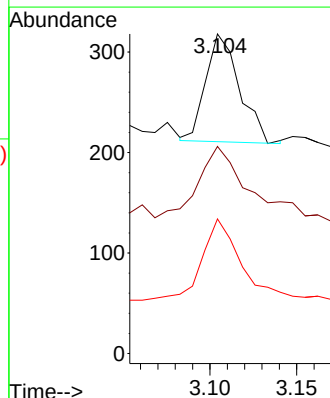
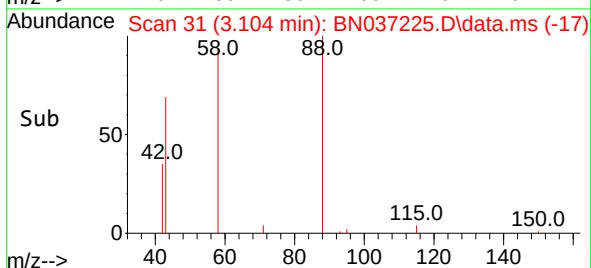
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 Ion Ratio Lower Upper
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 150 146.8 125.2 187.8
 115 72.7 58.4 87.6

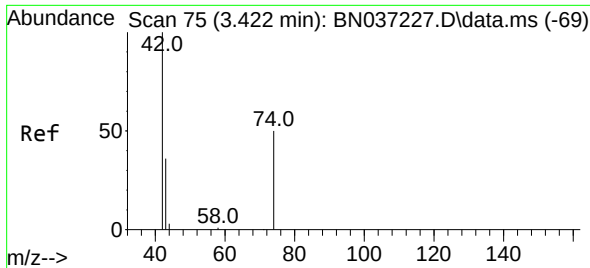


#2
 1,4-Dioxane
 Concen: 0.123 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33



Tgt Ion: 88 Resp: 145
 Ion Ratio Lower Upper
 88 100
 43 144.8 52.6 79.0#
 58 84.8 73.5 110.3

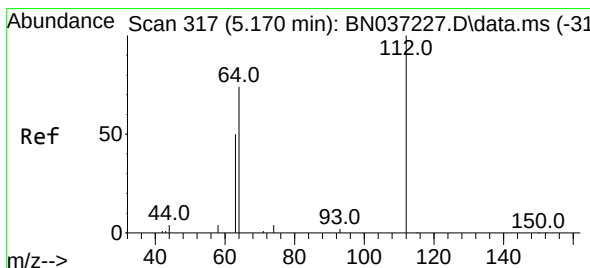
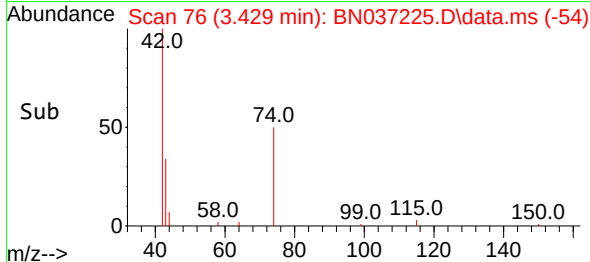
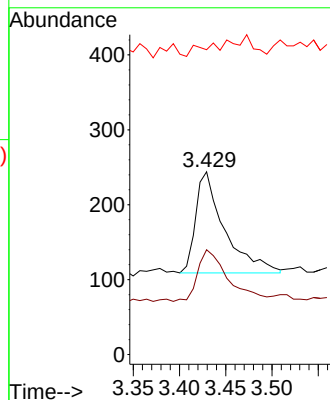
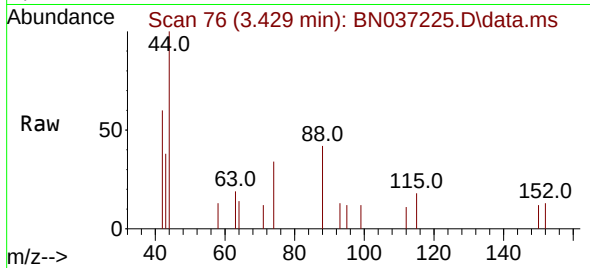




#3
 n-Nitrosodimethylamine
 Concen: 0.109 ng
 RT: 3.429 min Scan# 75
 Delta R.T. 0.007 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

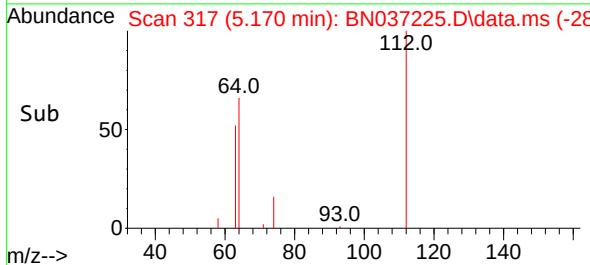
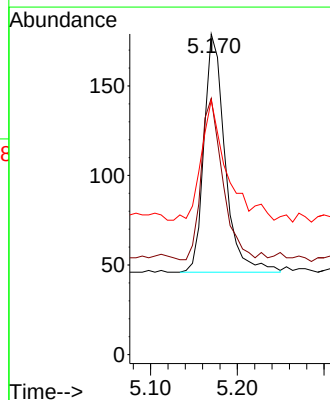
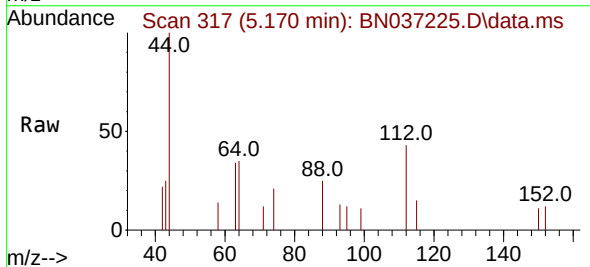
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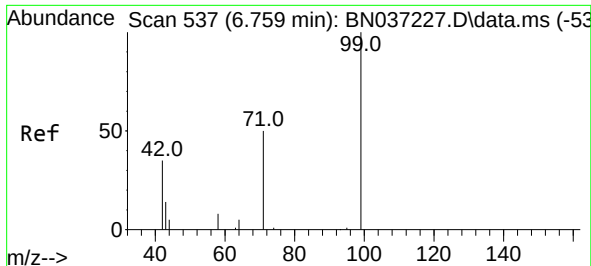
Tgt Ion: 42 Resp: 293
 Ion Ratio Lower Upper
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 74 53.6 44.6 66.8
 44 5.5 3.5 5.3#



#4
 2-Fluorophenol
 Concen: 0.106 ng
 RT: 5.170 min Scan# 317
 Delta R.T. 0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

Tgt Ion: 112 Resp: 224
 Ion Ratio Lower Upper
 112 100
 64 69.2 57.2 85.8
 63 65.6 39.8 59.6#

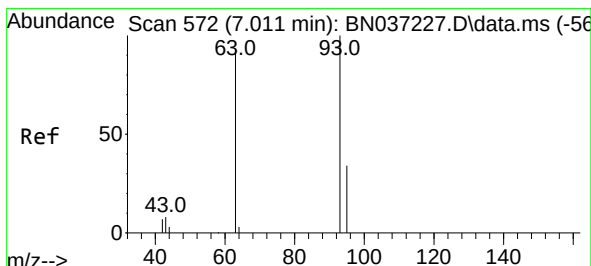
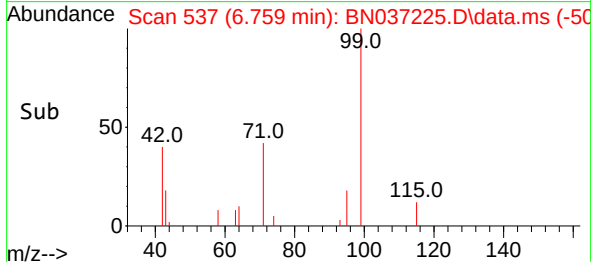
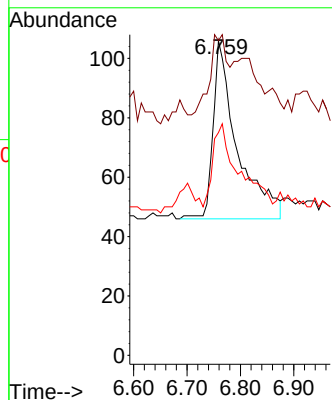
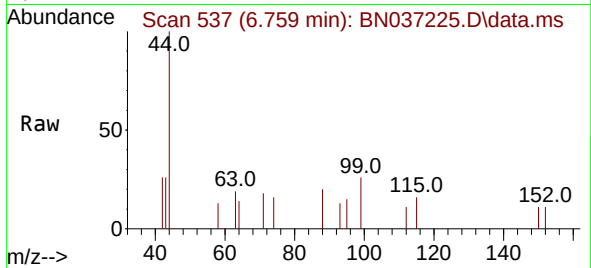




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

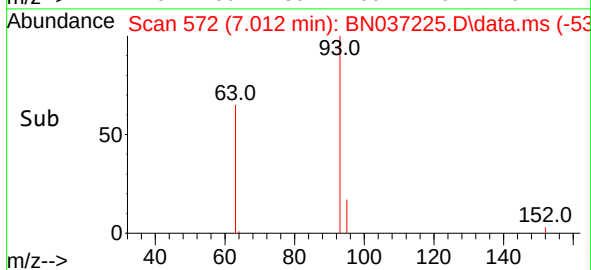
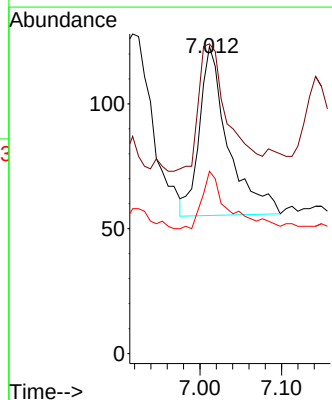
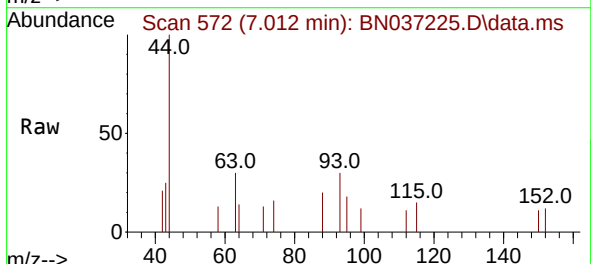
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

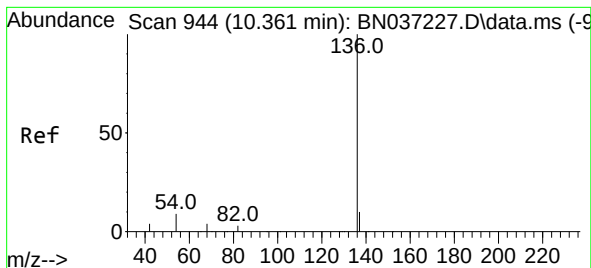
Tgt Ion: 99 Resp: 188
Ion Ratio Lower Upper
99 100
42 33.0 36.2 54.4#
71 51.1 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.083 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 93 Resp: 165
Ion Ratio Lower Upper
93 100
63 76.4 75.2 112.8
95 30.9 28.3 42.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.362 min Scan# 944

Delta R.T. 0.000 min

Lab File: BN037225.D

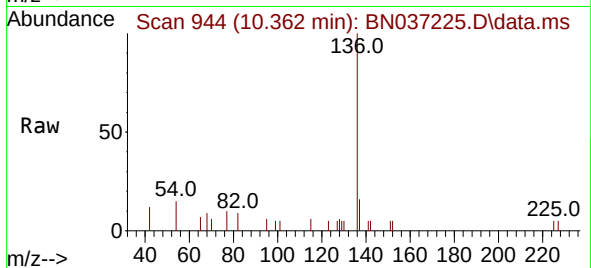
Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:136 Resp: 2097

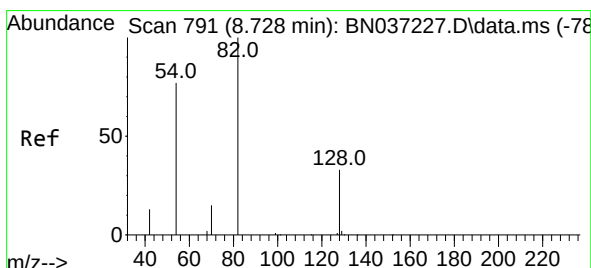
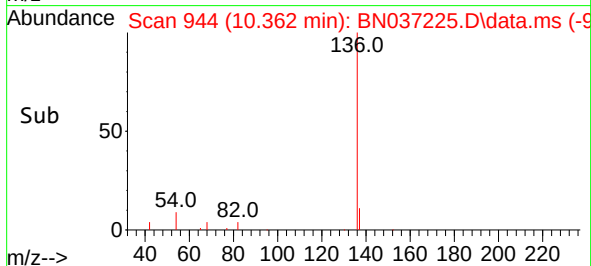
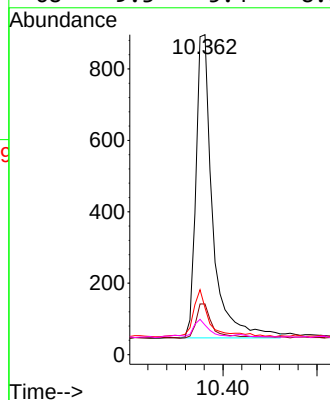
Ion Ratio Lower Upper

136 100

137 15.8 10.6 15.8#

54 14.6 9.2 13.8#

68 9.3 5.4 8.0#



#8

Nitrobenzene-d5

Concen: 0.093 ng

RT: 8.739 min Scan# 792

Delta R.T. 0.011 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

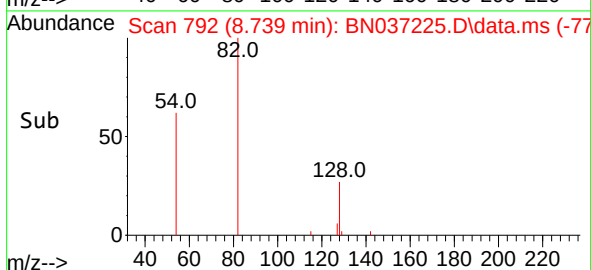
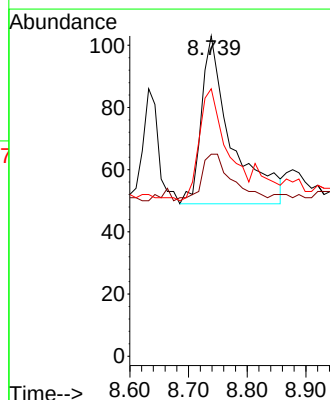
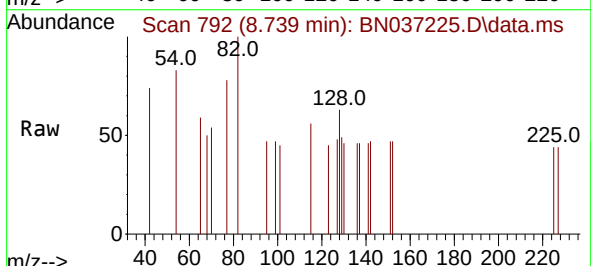
Tgt Ion: 82 Resp: 192

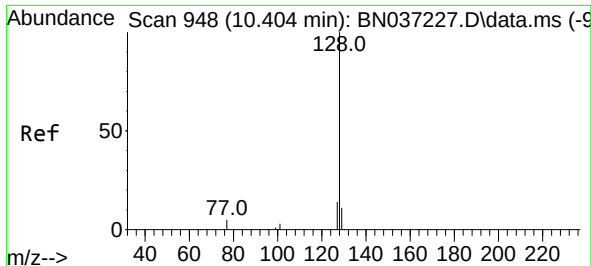
Ion Ratio Lower Upper

82 100

128 63.1 31.2 46.8#

54 83.5 63.3 94.9

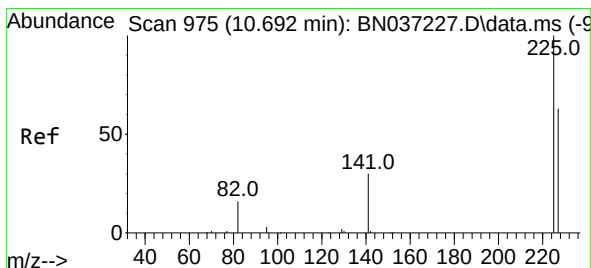
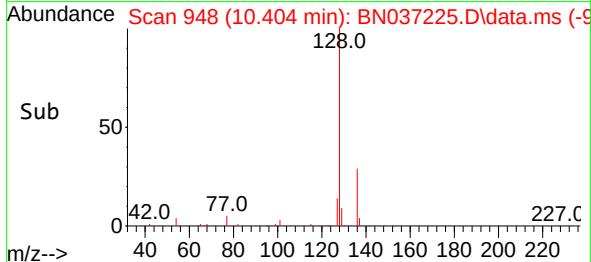
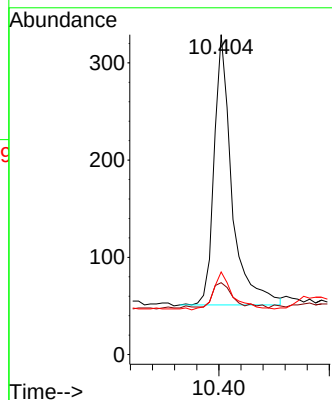
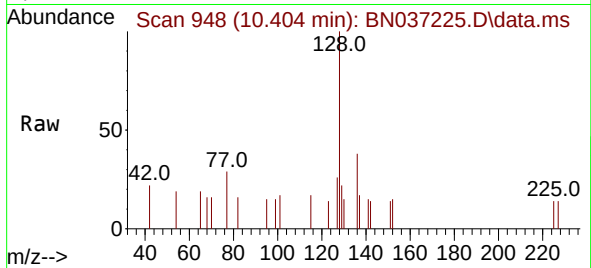




#9
Naphthalene
Concen: 0.102 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

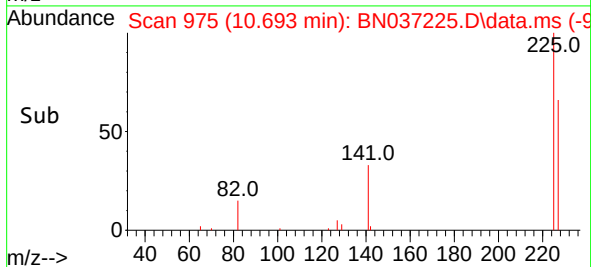
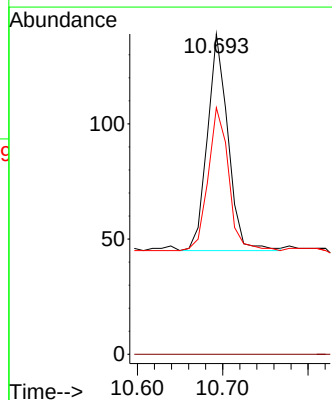
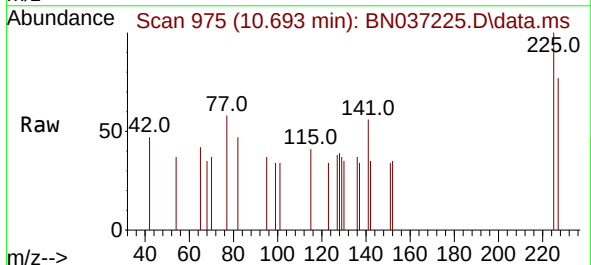
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

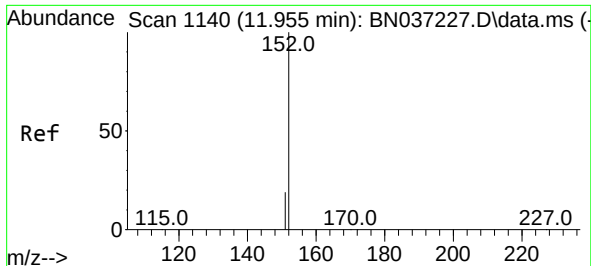
Tgt Ion:128 Resp: 622
Ion Ratio Lower Upper
128 100
129 22.5 10.7 16.1#
127 25.8 12.6 19.0#



#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:225 Resp: 157
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.6 49.2 73.8

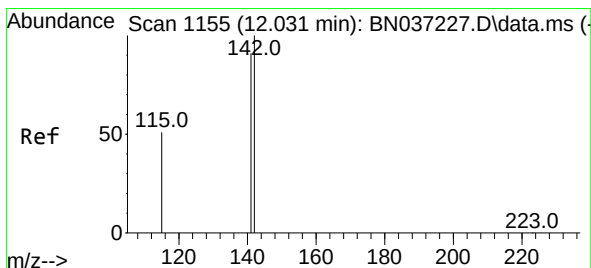
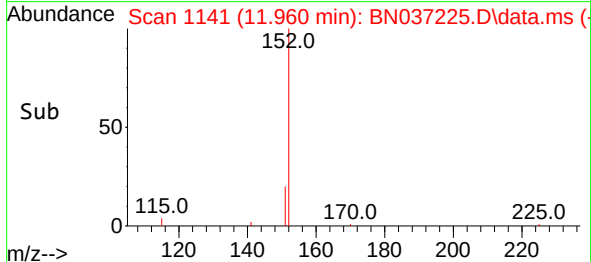
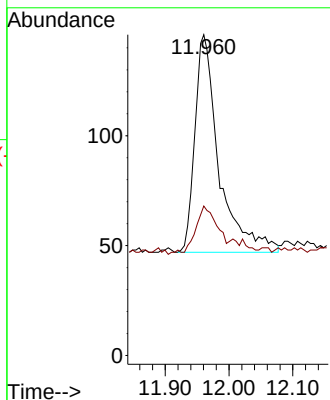
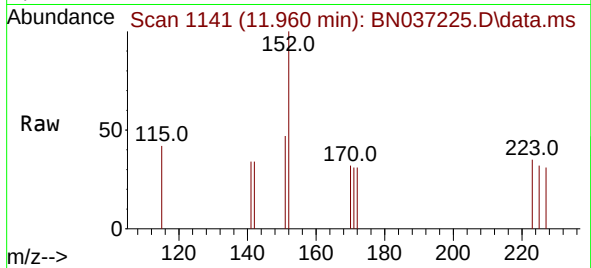




#11
2-Methylnaphthalene-d10
Concen: 0.092 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

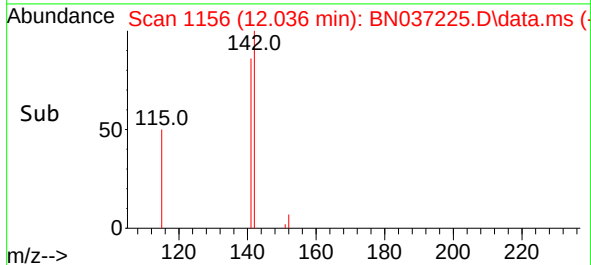
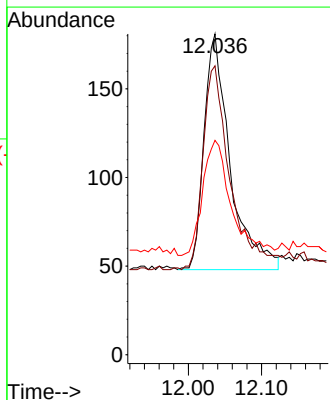
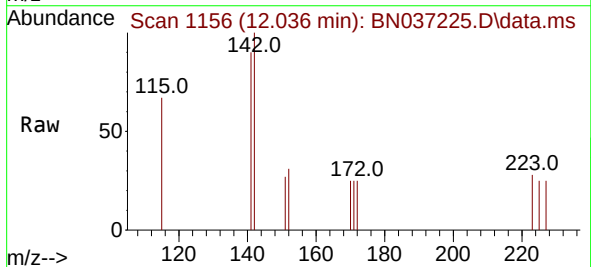
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

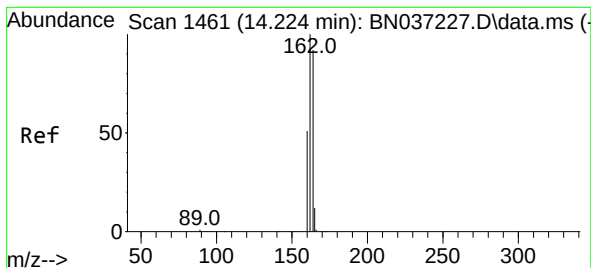
Tgt Ion:152 Resp: 260
Ion Ratio Lower Upper
152 100
151 20.8 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:142 Resp: 331
Ion Ratio Lower Upper
142 100
141 90.1 73.0 109.6
115 66.9 43.3 64.9#

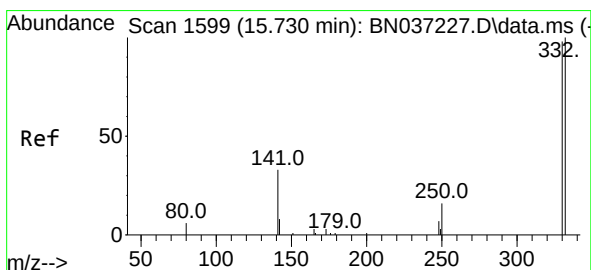
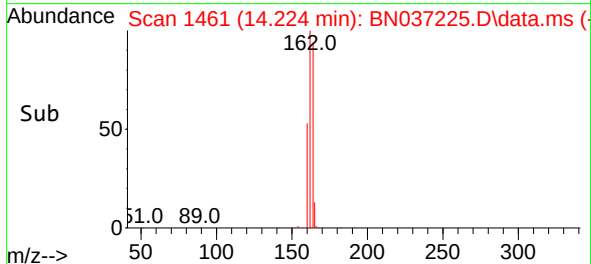
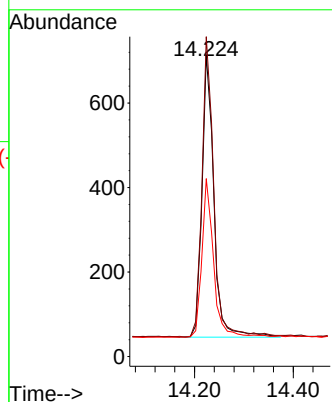
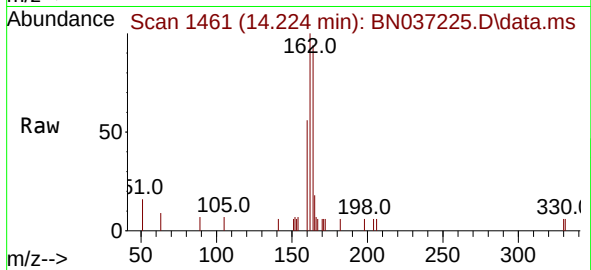




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

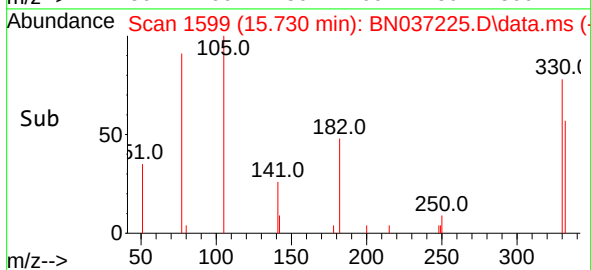
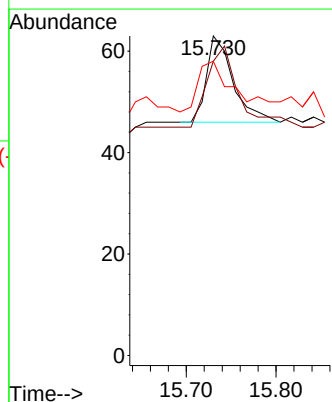
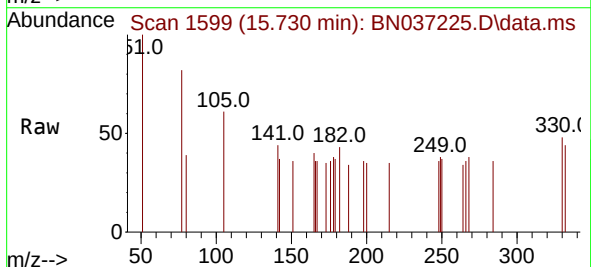
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

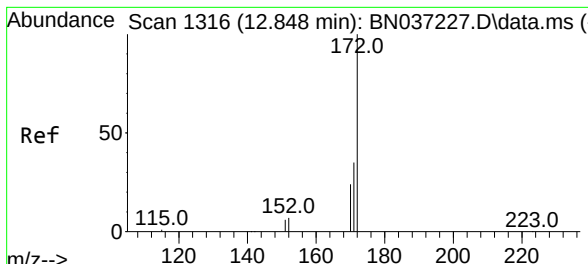
Tgt Ion:164 Resp: 1114
Ion Ratio Lower Upper
164 100
162 106.2 86.7 130.1
160 59.0 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.076 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:330 Resp: 35
Ion Ratio Lower Upper
330 100
332 111.4 74.9 112.3
141 82.9 45.1 67.7#

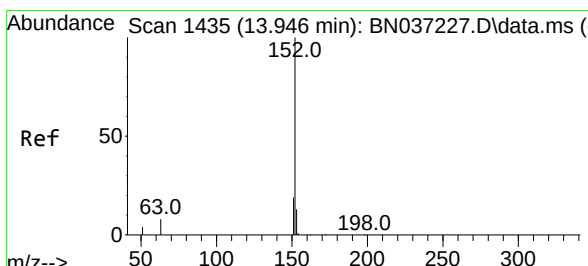
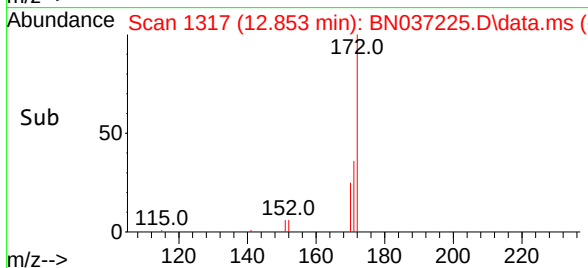
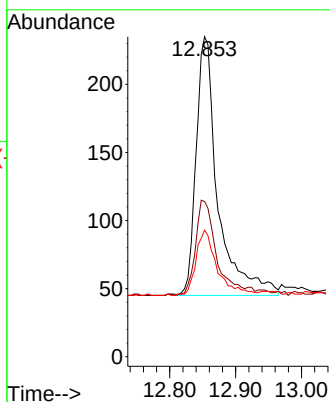
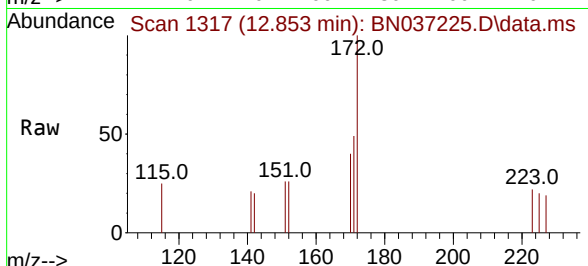




#15
2-Fluorobiphenyl
Concen: 0.093 ng
RT: 12.853 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

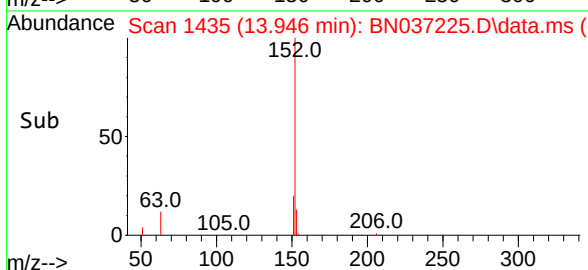
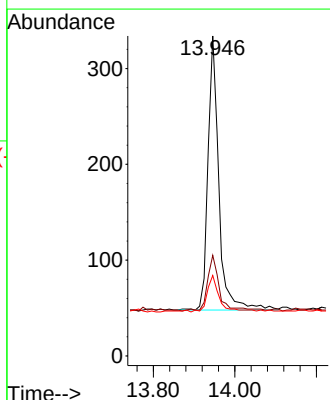
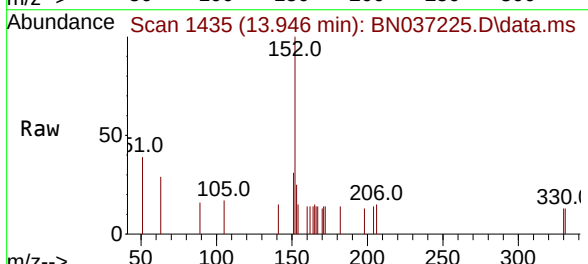
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

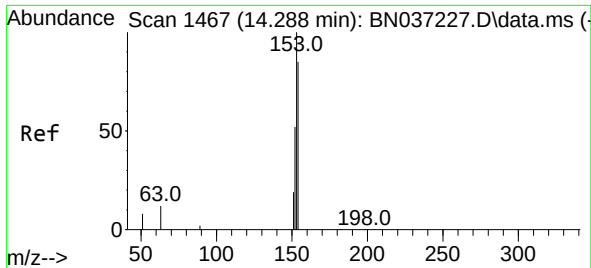
Tgt Ion:	172	Resp:	436
Ion Ratio	Lower	Upper	
172	100		
171	48.5	29.8	44.8#
170	39.6	21.1	31.7#



#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:	152	Resp:	531
Ion Ratio	Lower	Upper	
152	100		
151	22.4	15.7	23.5
153	14.9	10.7	16.1

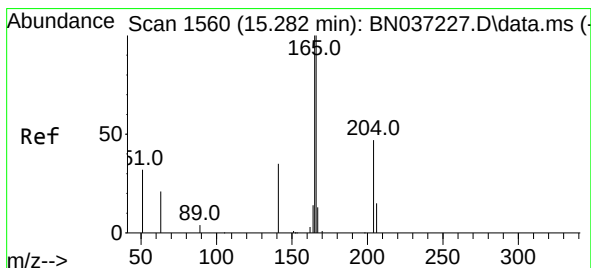
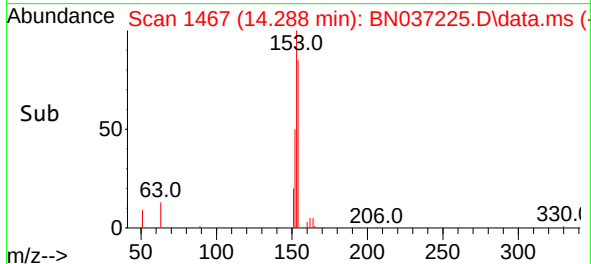
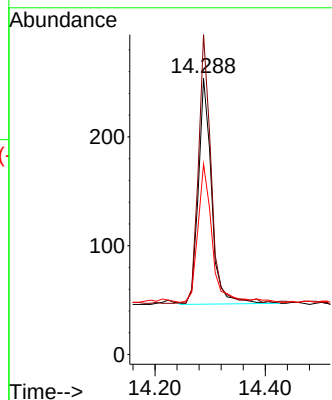
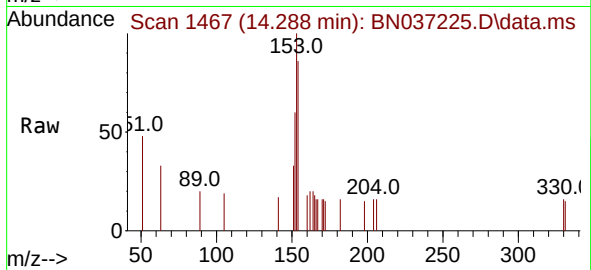




#17
Acenaphthene
Concen: 0.098 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

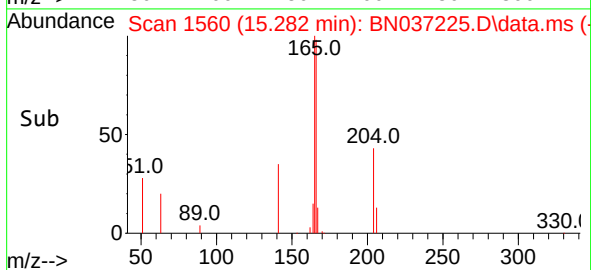
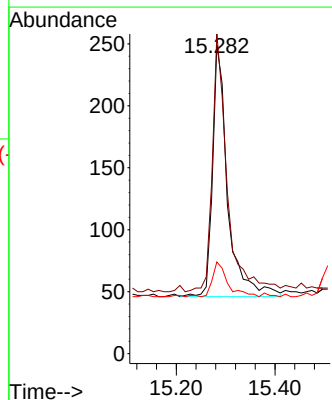
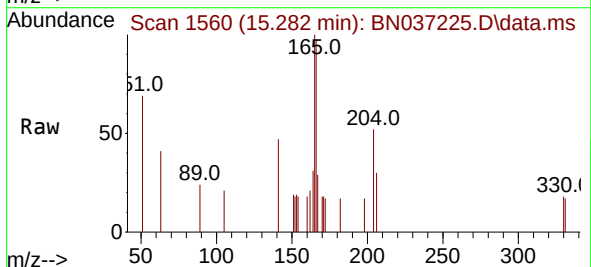
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

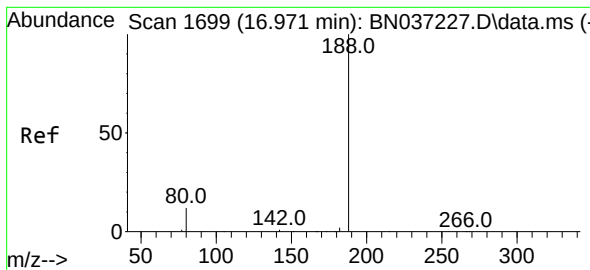
Tgt Ion:154 Resp: 346
Ion Ratio Lower Upper
154 100
153 114.5 94.6 141.8
152 65.9 49.6 74.4



#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:166 Resp: 430
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.6
167 14.0 10.8 16.2

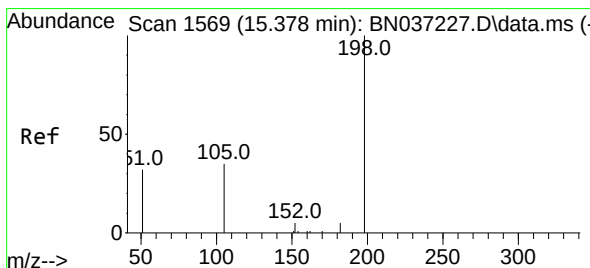
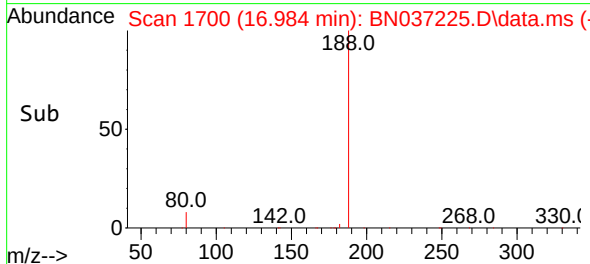
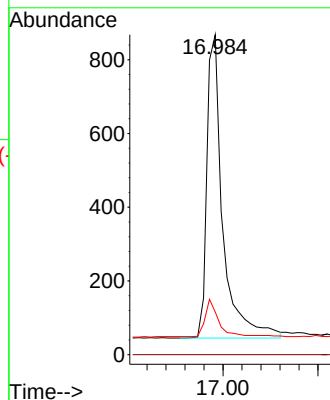
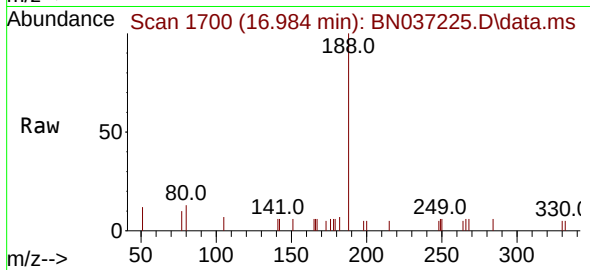




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 11
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

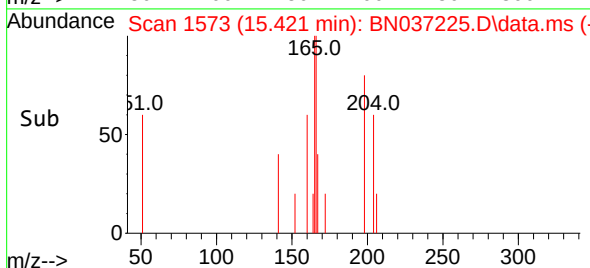
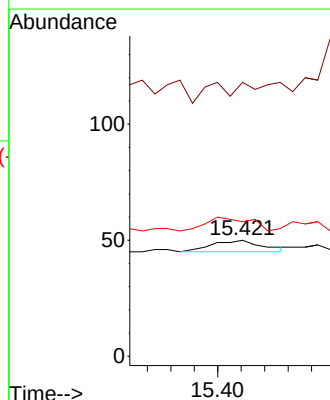
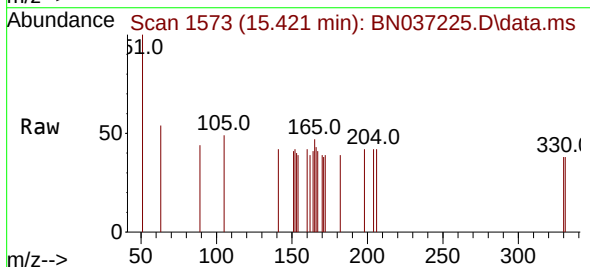
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

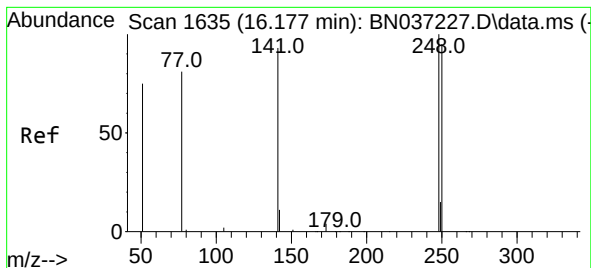
Tgt Ion:188 Resp: 1916
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.146 ng
RT: 15.421 min Scan# 1573
Delta R.T. 0.043 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:198 Resp: 15
Ion Ratio Lower Upper
198 100
51 236.0 111.2 166.8#
105 116.0 54.0 81.0#

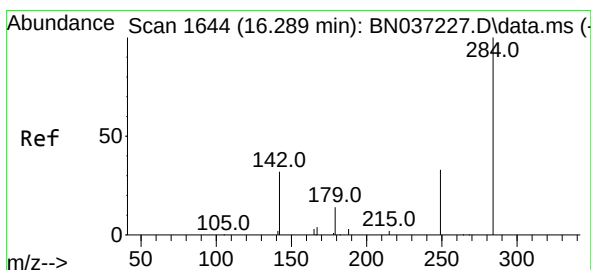
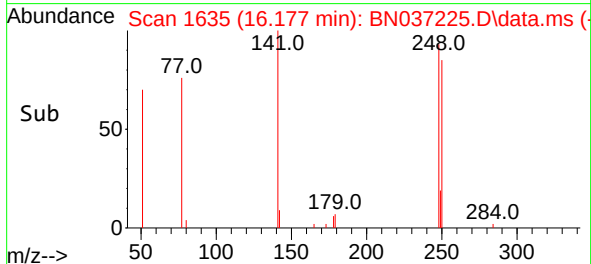
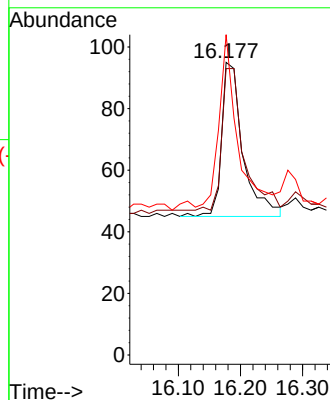
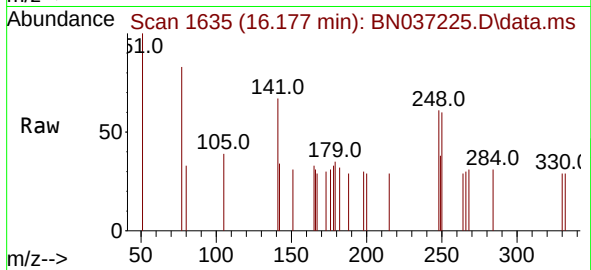




#21
4-Bromophenyl-phenylether
Concen: 0.095 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

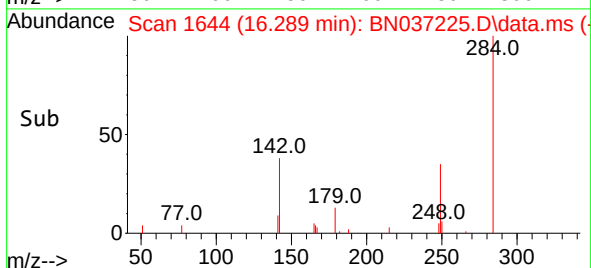
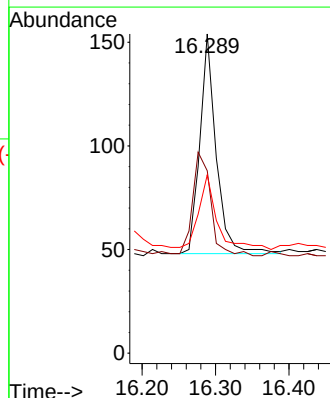
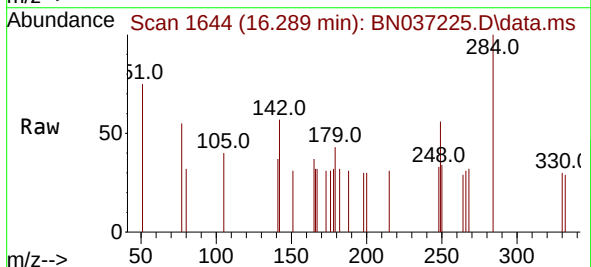
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

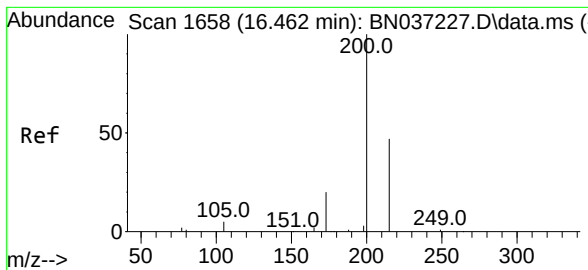
Tgt Ion:248 Resp: 119
Ion Ratio Lower Upper
248 100
250 97.9 76.8 115.2
141 109.5 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.113 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:284 Resp: 164
Ion Ratio Lower Upper
284 100
142 52.4 43.8 65.6
249 38.4 28.4 42.6

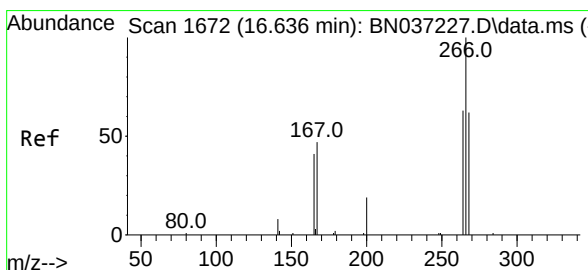
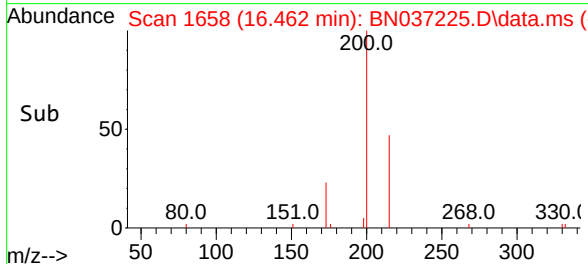
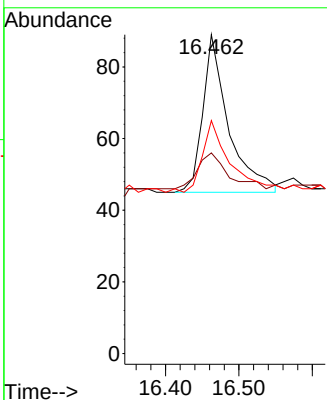
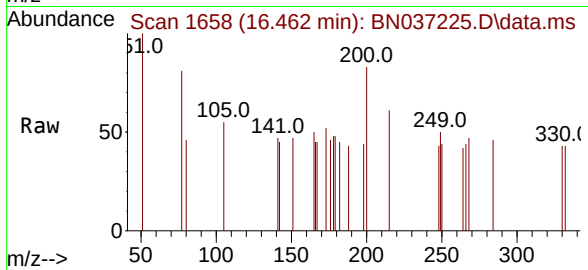




#23
Atrazine
 Concen: 0.096 ng
 RT: 16.462 min Scan# 1658
 Delta R.T. 0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

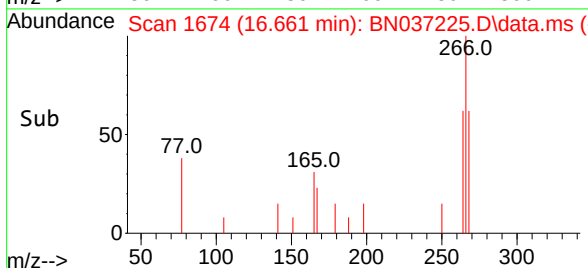
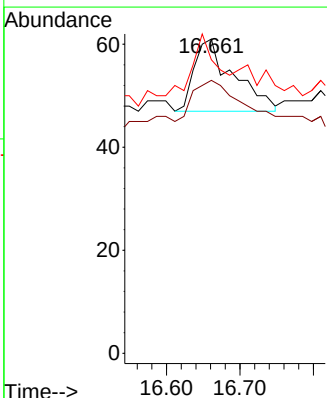
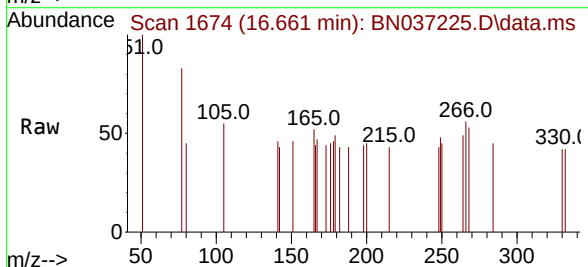
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

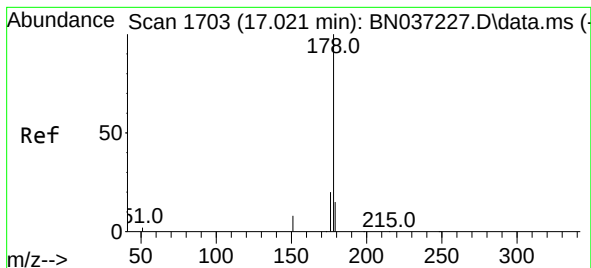
Tgt Ion:	200	Resp:	107
Ion Ratio	Lower	Upper	
200	100		
173	62.9	25.1	37.7#
215	73.0	43.7	65.5#



#24
Pentachlorophenol
 Concen: 0.073 ng
 RT: 16.661 min Scan# 1674
 Delta R.T. 0.025 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

Tgt Ion:	266	Resp:	52
Ion Ratio	Lower	Upper	
266	100		
264	73.1	49.2	73.8
268	82.7	53.4	80.2#





#25

Phenanthrene

Concen: 0.099 ng

RT: 17.021 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

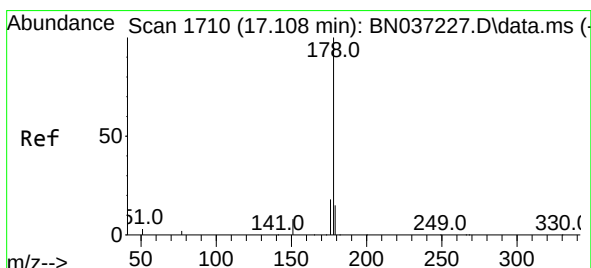
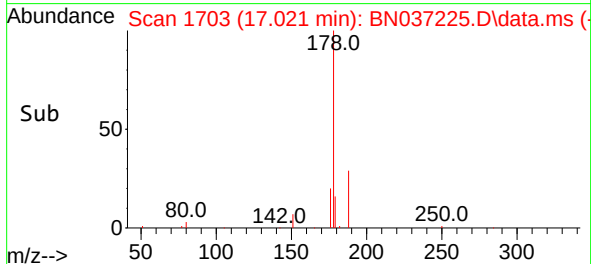
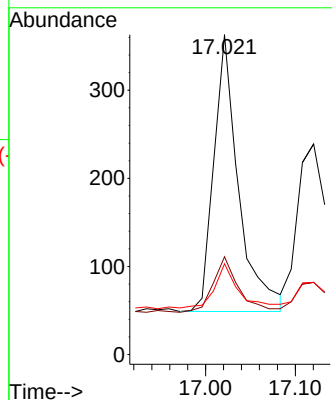
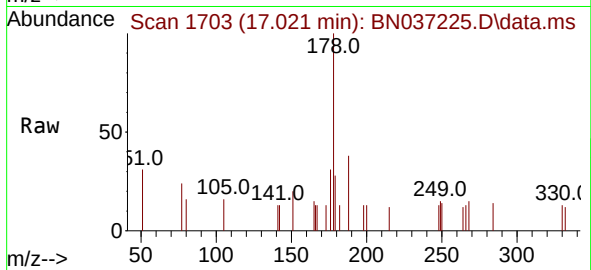
Tgt Ion:178 Resp: 600

Ion Ratio Lower Upper

178 100

176 20.3 16.3 24.5

179 15.8 12.6 18.8



#26

Anthracene

Concen: 0.094 ng

RT: 17.120 min Scan# 1711

Delta R.T. 0.013 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

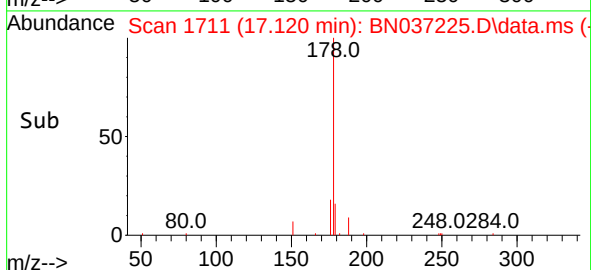
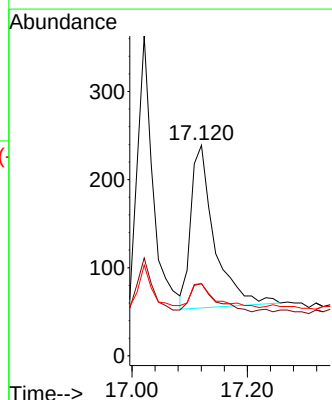
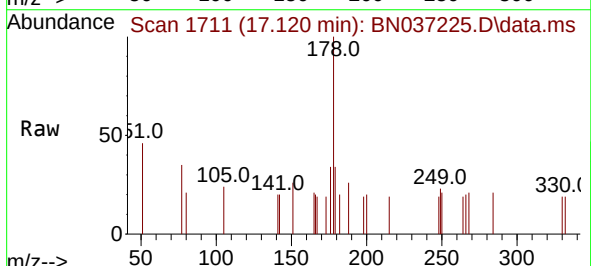
Tgt Ion:178 Resp: 524

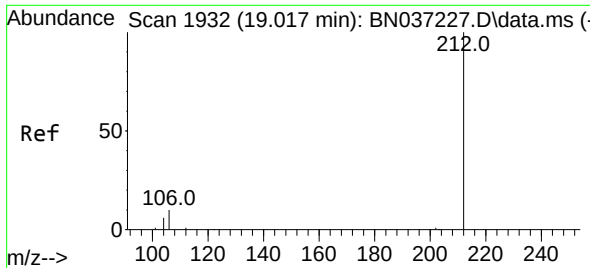
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.1 12.4 18.6

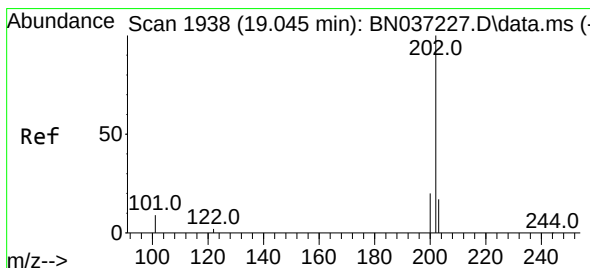
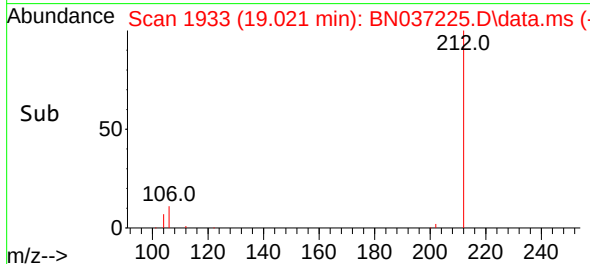
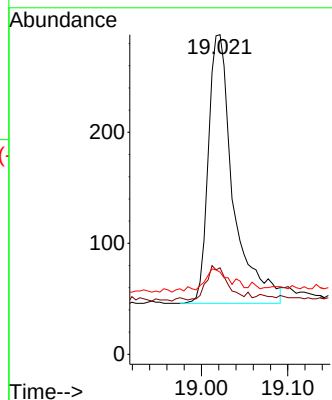
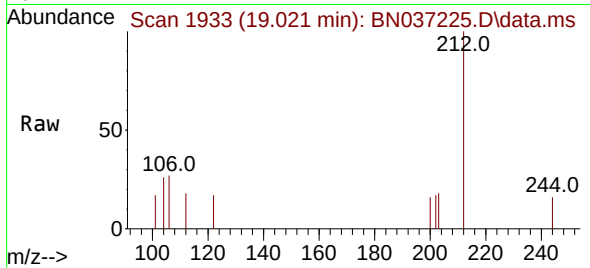




#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.021 min Scan# 1933
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

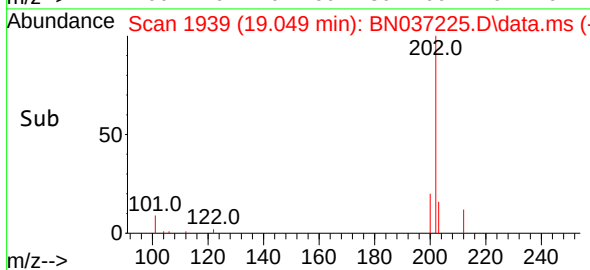
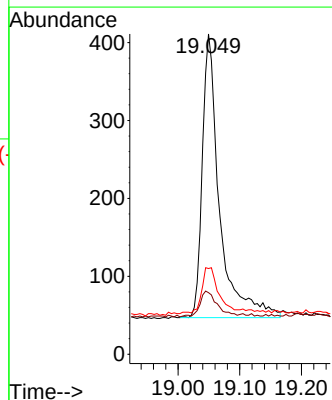
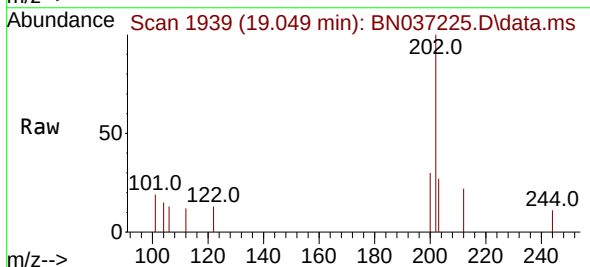
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

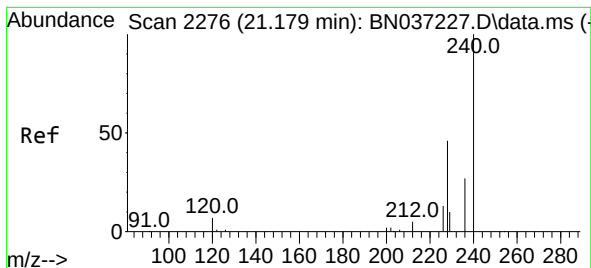
Tgt Ion:212 Resp: 486
Ion Ratio Lower Upper
212 100
106 10.5 9.3 13.9
104 9.7 5.7 8.5#



#28
Fluoranthene
Concen: 0.099 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 704
Ion Ratio Lower Upper
202 100
101 9.1 7.1 10.7
203 15.9 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

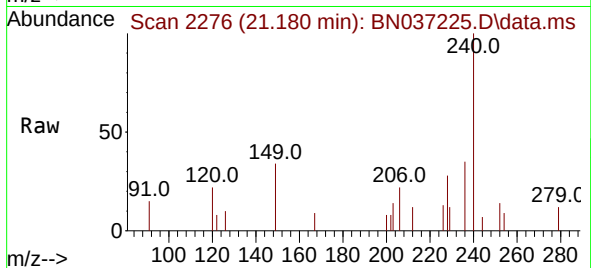
Acq: 13 Jun 2025 13:33

Instrument :

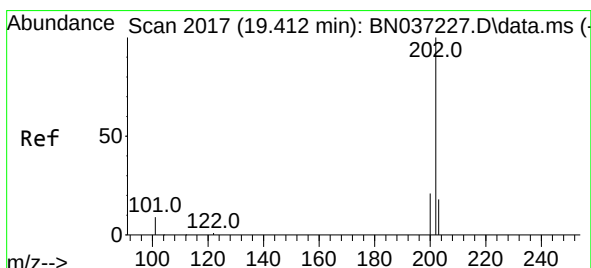
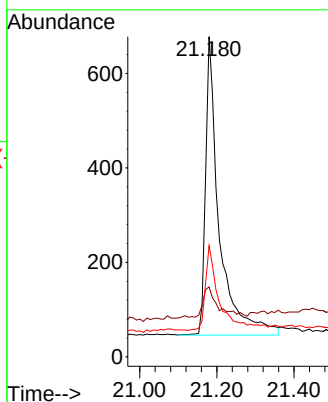
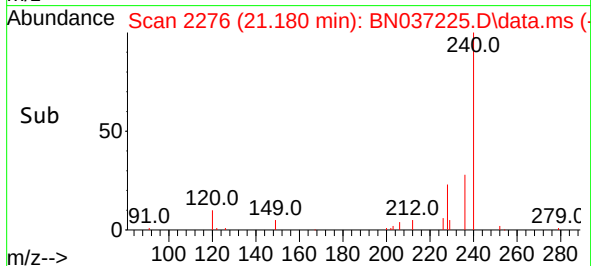
BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:	240	Resp:	1546
Ion Ratio	Lower	Upper	
240	100		
120	21.8	11.3	16.9#
236	34.7	24.4	36.6



#30

Pyrene

Concen: 0.098 ng

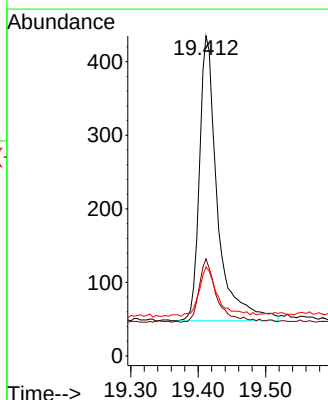
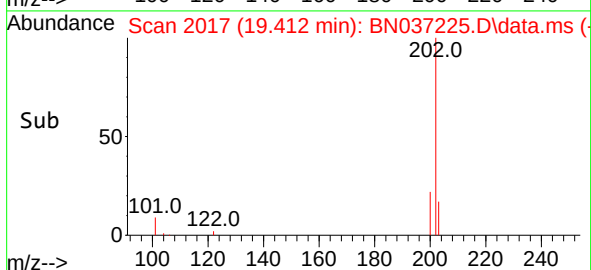
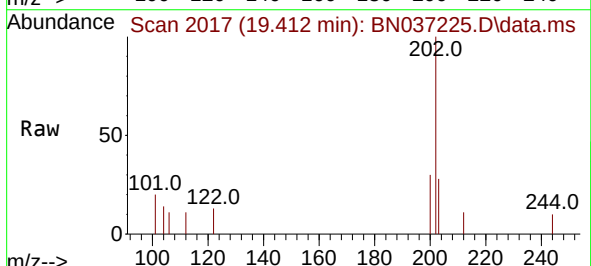
RT: 19.412 min Scan# 2017

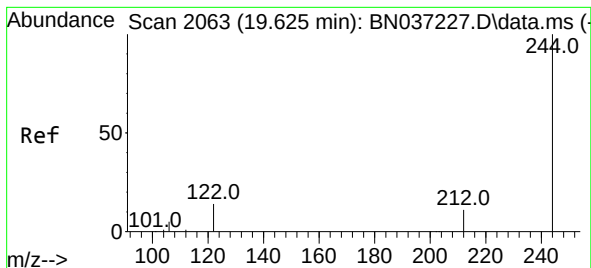
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	202	Resp:	715
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.2	25.8
203	18.0	14.3	21.5





#31

Terphenyl-d14

Concen: 0.090 ng

RT: 19.635 min Scan# 2065

Delta R.T. 0.009 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

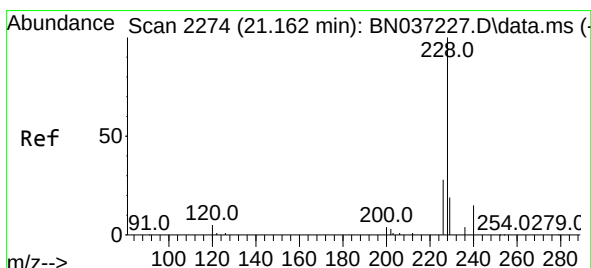
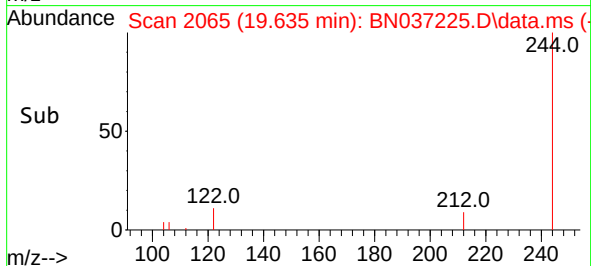
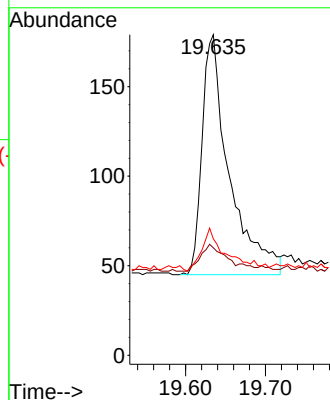
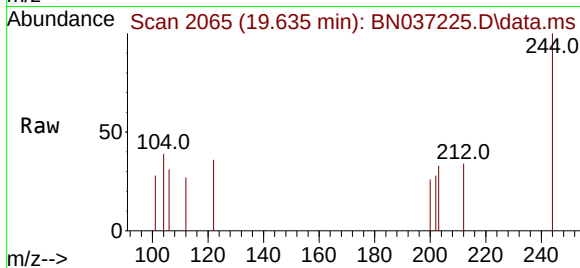
Tgt Ion:244 Resp: 315

Ion Ratio Lower Upper

244 100

212 33.5 12.2 18.2#

122 36.3 14.3 21.5#



#32

Benzo(a)anthracene

Concen: 0.087 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

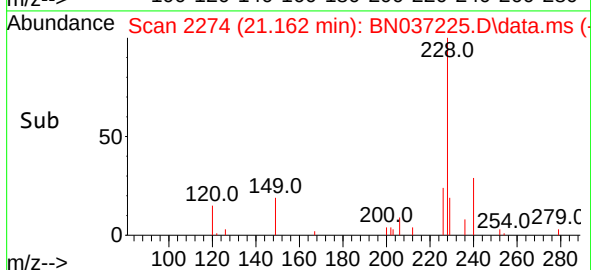
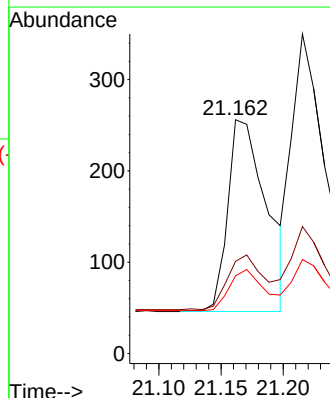
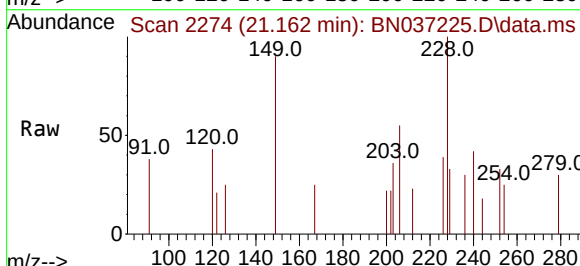
Tgt Ion:228 Resp: 454

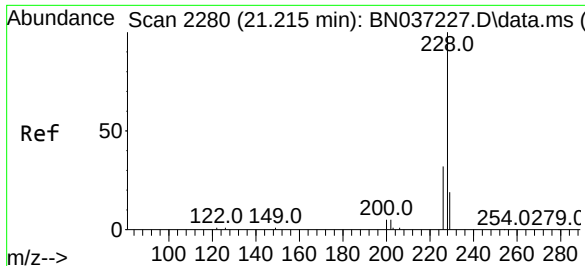
Ion Ratio Lower Upper

228 100

226 39.5 23.8 35.8#

229 33.2 17.0 25.4#

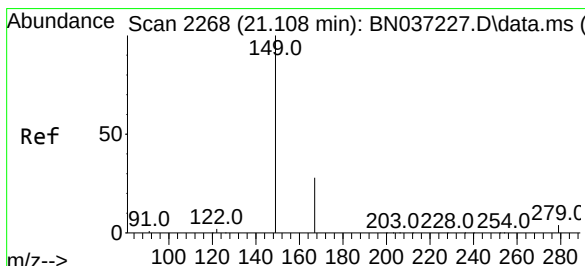
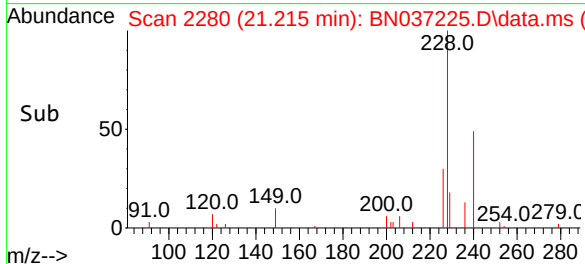
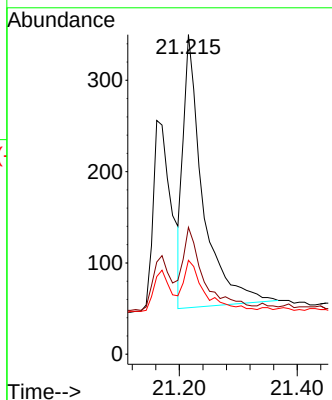
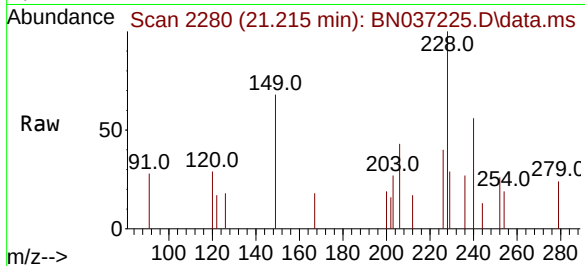




#33
Chrysene
Concen: 0.106 ng
RT: 21.215 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

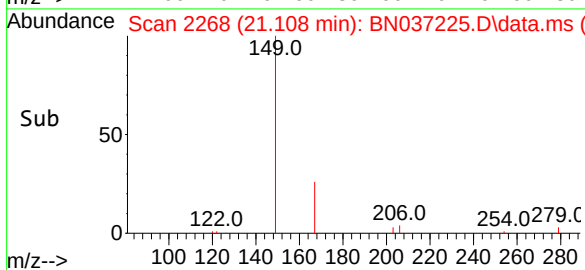
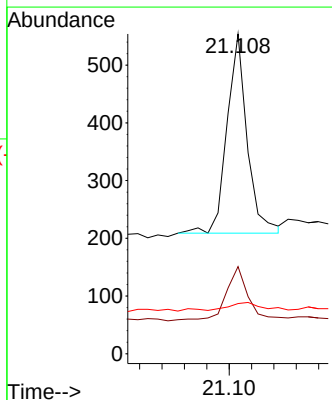
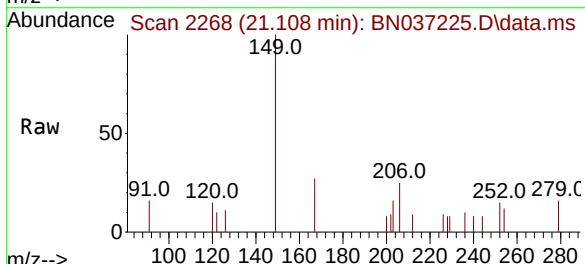
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

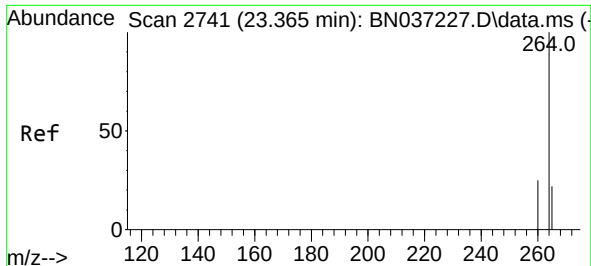
Tgt Ion:228 Resp: 689
Ion Ratio Lower Upper
228 100
226 39.7 25.8 38.6#
229 29.4 17.0 25.4#



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

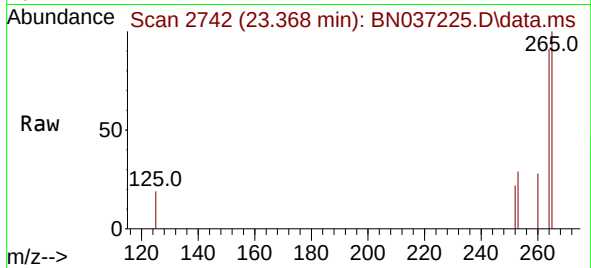
Tgt Ion:149 Resp: 432
Ion Ratio Lower Upper
149 100
167 27.8 21.3 31.9
279 8.3 3.3 4.9#



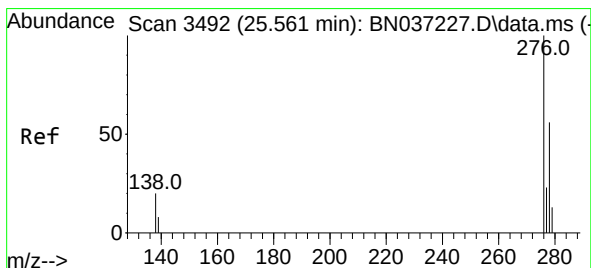
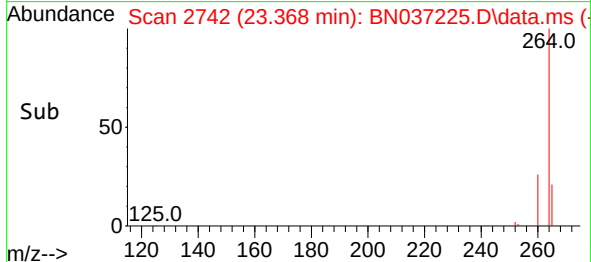
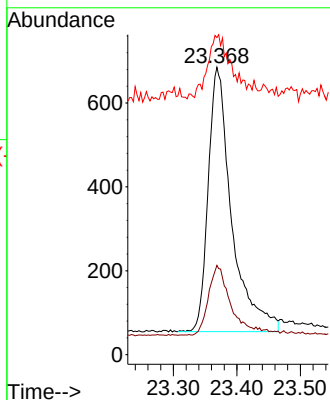


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.368 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

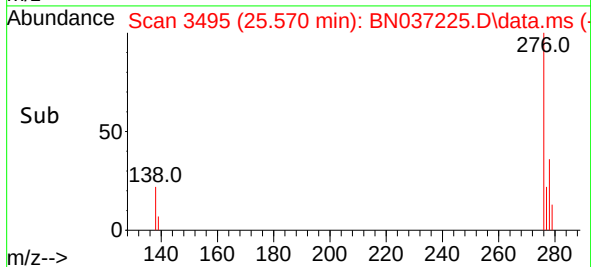
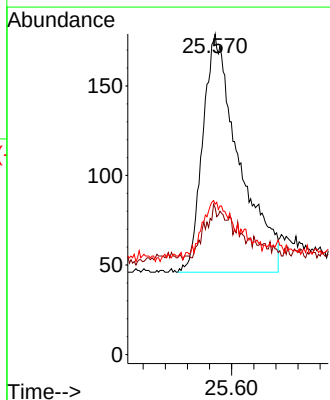
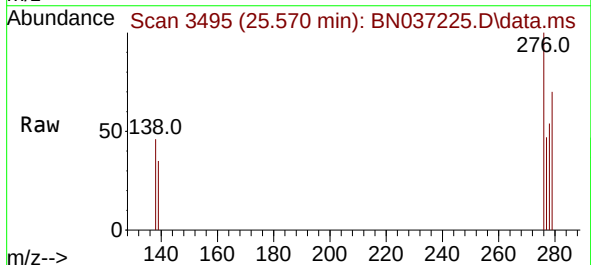


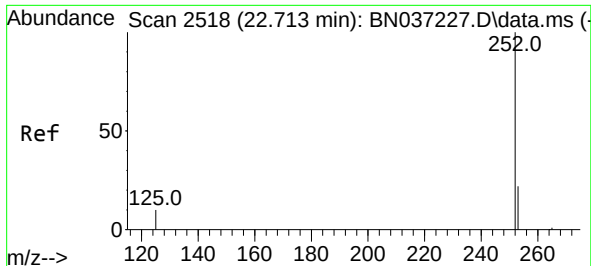
Tgt Ion:264 Resp: 1617
Ion Ratio Lower Upper
264 100
260 31.1 22.8 34.2
265 110.4 66.4 99.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.570 min Scan# 3495
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:276 Resp: 609
Ion Ratio Lower Upper
276 100
138 1.3 16.8 25.2#
277 18.6 19.5 29.3#





#37

Benzo(b)fluoranthene

Concen: 0.089 ng

RT: 22.719 min Scan# 2520

Delta R.T. 0.006 min

Lab File: BN037225.D

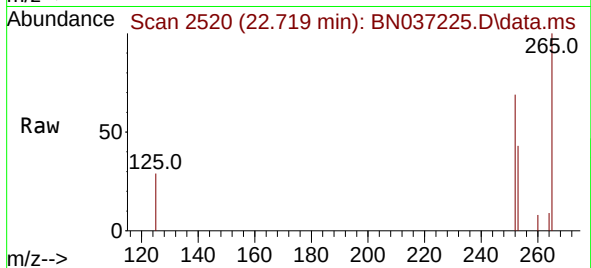
Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



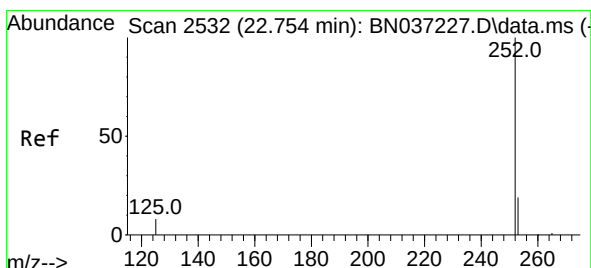
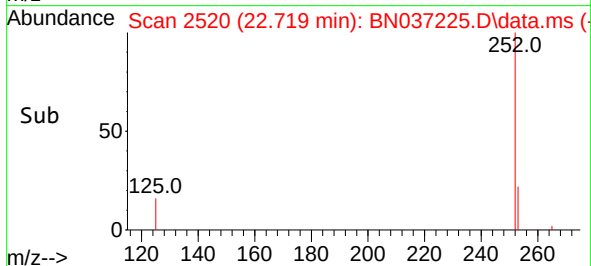
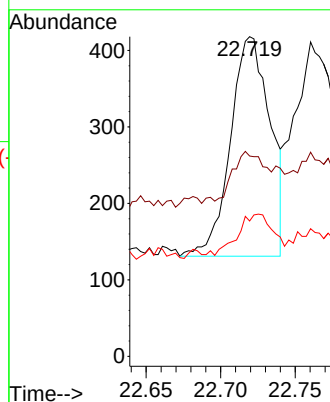
Tgt Ion:252 Resp: 529

Ion Ratio Lower Upper

252 100

253 62.7 24.9 37.3#

125 42.3 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 0.072 ng

RT: 22.760 min Scan# 2534

Delta R.T. 0.006 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

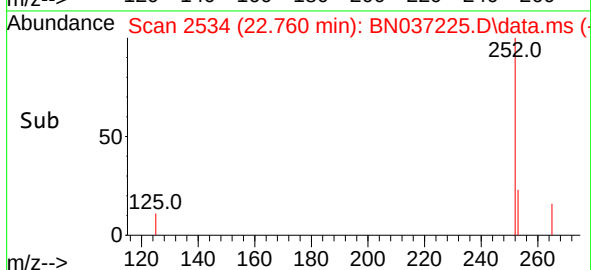
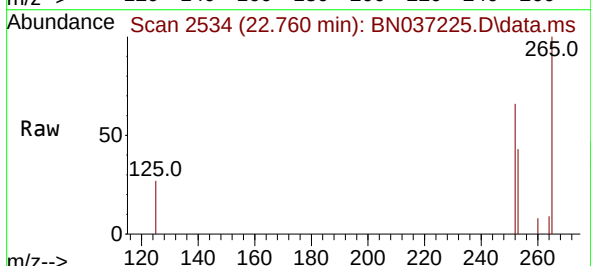
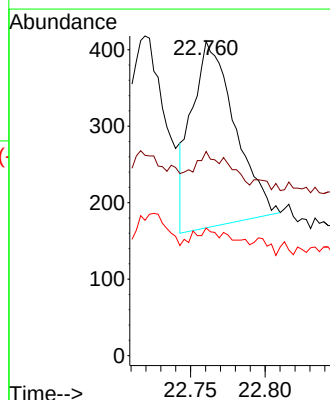
Tgt Ion:252 Resp: 488

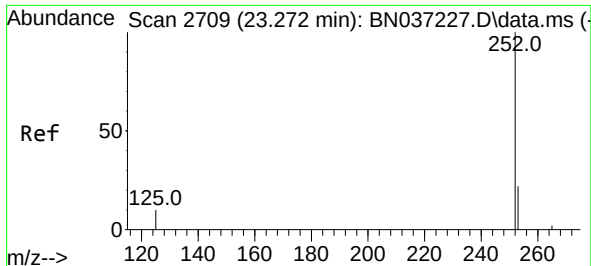
Ion Ratio Lower Upper

252 100

253 65.0 24.6 37.0#

125 40.6 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.284 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

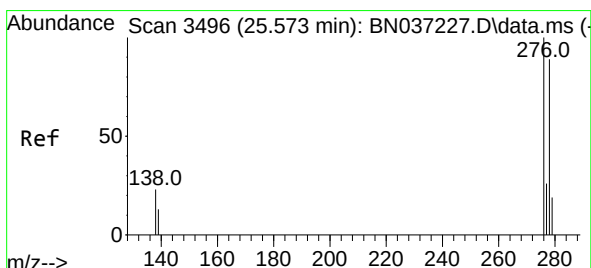
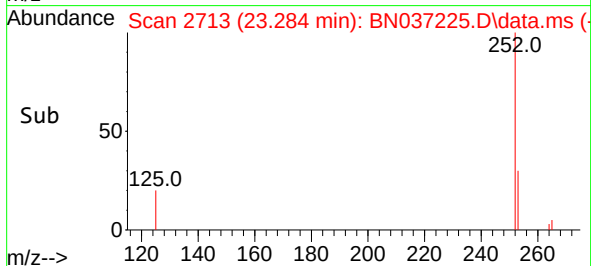
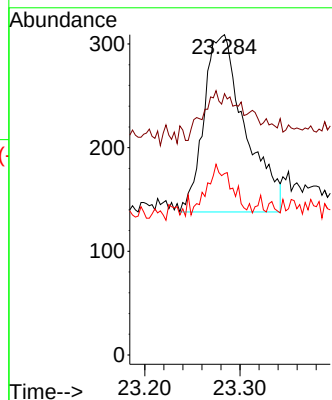
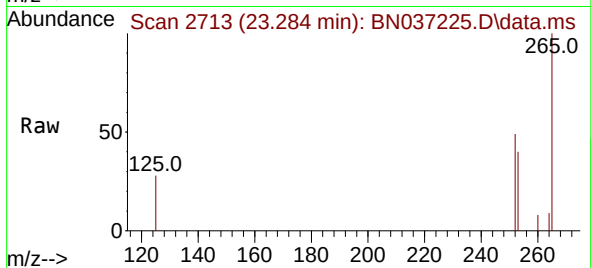
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:252	Resp:	514
Ion Ratio	Lower	Upper
252	100	
253	81.6	29.4 44.2#
125	56.6	16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.064 ng

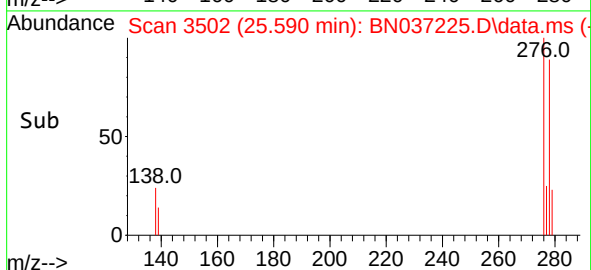
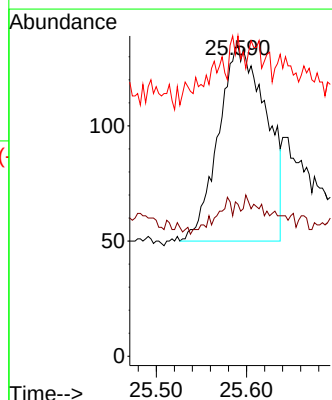
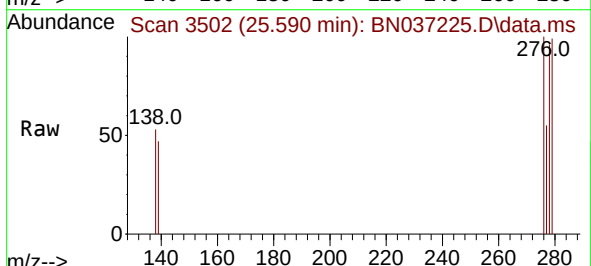
RT: 25.590 min Scan# 3502

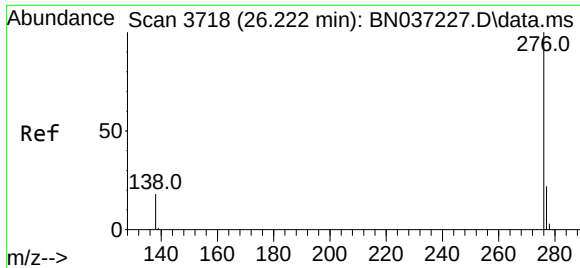
Delta R.T. 0.018 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

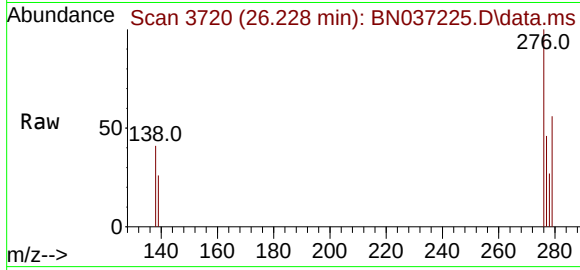
Tgt Ion:278	Resp:	313
Ion Ratio	Lower	Upper
278	100	
139	48.9	17.8 26.6#
279	103.0	31.3 46.9#



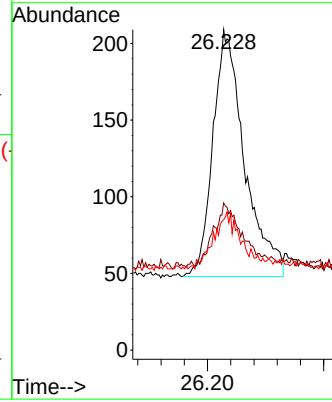
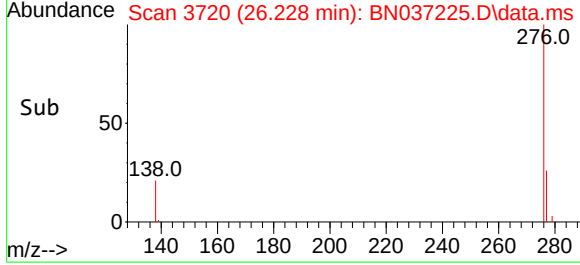


#41
Benzo(g,h,i)perylene
Concen: 0.101 ng
RT: 26.228 min Scan# 31
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 608
Ion Ratio Lower Upper
276 100
277 45.9 22.0 33.0#
138 40.7 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037280.D
 Acq On : 15 Jun 2025 02:42
 Operator : RC/JU
 Sample : PB168476BS
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168476BS

Quant Time: Jun 16 02:47:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

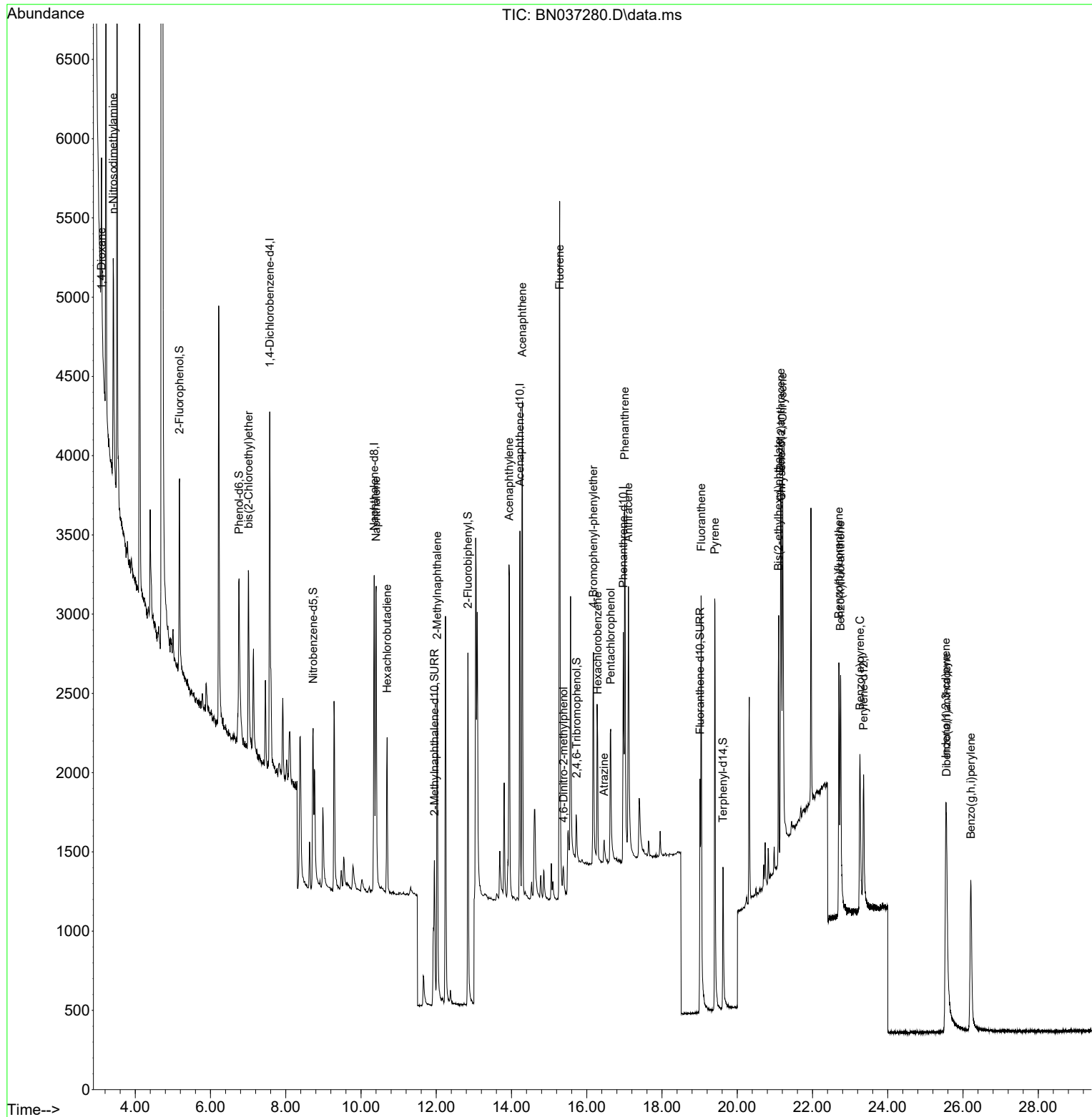
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1101	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2637	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1350	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2251	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1528	0.400	ng	0.00
35) Perylene-d12	23.357	264	1224	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	961	0.355	ng	0.00
5) Phenol-d6	6.759	99	1013	0.355	ng	0.00
8) Nitrobenzene-d5	8.728	82	979	0.376	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	2371	0.670	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	198	0.353	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	2195	0.387	ng	0.00
27) Fluoranthene-d10	19.012	212	1999	0.339	ng	0.00
31) Terphenyl-d14	19.621	244	1313	0.380	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	447	0.296	ng	# 1
3) n-Nitrosodimethylamine	3.415	42	1294	0.376	ng	# 99
6) bis(2-Chloroethyl)ether	7.012	93	958	0.375	ng	95
9) Naphthalene	10.404	128	2899	0.380	ng	99
10) Hexachlorobutadiene	10.693	225	744	0.401	ng	# 98
12) 2-Methylnaphthalene	12.026	142	1579	0.340	ng	98
16) Acenaphthylene	13.935	152	2642	0.399	ng	99
17) Acenaphthene	14.288	154	1561	0.366	ng	98
18) Fluorene	15.282	166	1981	0.361	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	205	0.463	ng	87
21) 4-Bromophenyl-phenylether	16.177	248	566	0.386	ng	89
22) Hexachlorobenzene	16.289	284	682	0.401	ng	98
23) Atrazine	16.463	200	212	0.162	ng	# 81
24) Pentachlorophenol	16.636	266	600	0.720	ng	97
25) Phenanthrene	17.009	178	2688	0.377	ng	99
26) Anthracene	17.108	178	2516	0.385	ng	98
28) Fluoranthene	19.040	202	2829	0.339	ng	99
30) Pyrene	19.403	202	2773	0.386	ng	99
32) Benzo(a)anthracene	21.153	228	1878	0.364	ng	99
33) Chrysene	21.207	228	2594	0.404	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	1471	0.383	ng	99
36) Indeno(1,2,3-cd)pyrene	25.547	276	2405	0.487	ng	97
37) Benzo(b)fluoranthene	22.702	252	2018	0.451	ng	96
38) Benzo(k)fluoranthene	22.746	252	2286	0.442	ng	96
39) Benzo(a)pyrene	23.260	252	1793	0.445	ng	94
40) Dibenzo(a,h)anthracene	25.561	278	1876	0.500	ng	95
41) Benzo(g,h,i)perylene	26.210	276	2136	0.467	ng	96

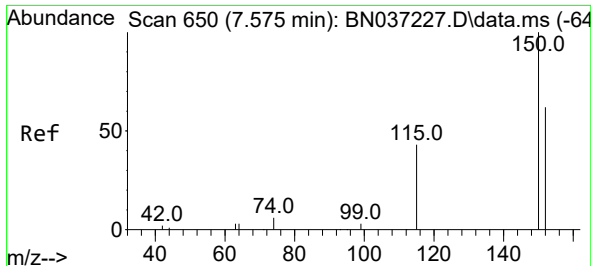
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037280.D
Acq On : 15 Jun 2025 02:42
Operator : RC/JU
Sample : PB168476BS
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168476BS

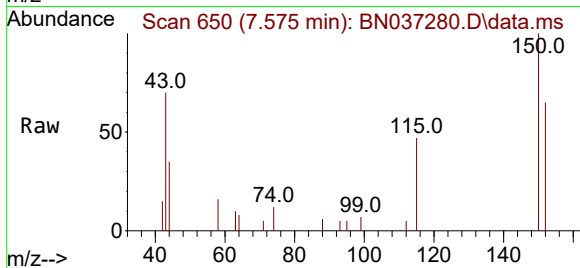
Quant Time: Jun 16 02:47:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



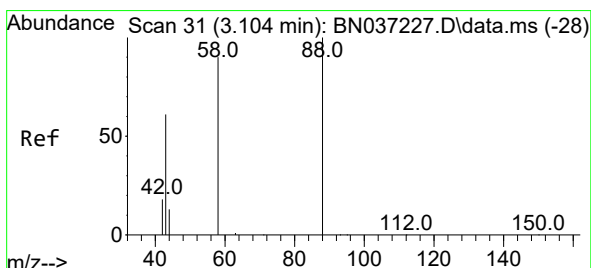
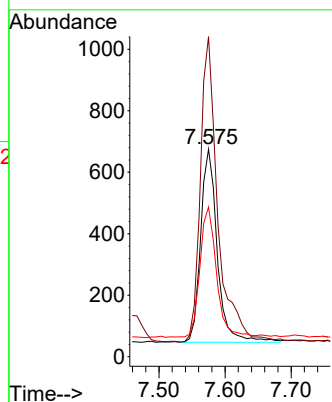
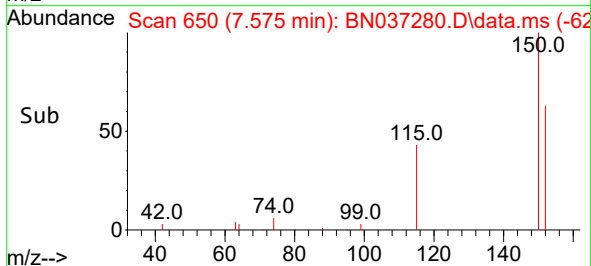


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037280.D
 Acq: 15 Jun 2025 02:42

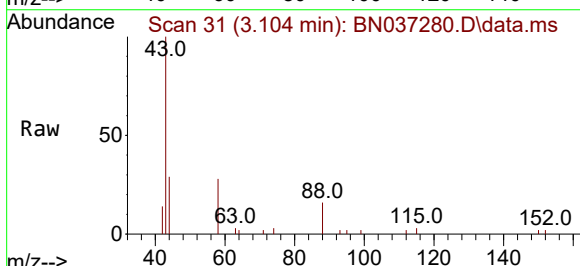
Instrument :
 BNA_N
 ClientSampleId :
 PB168476BS



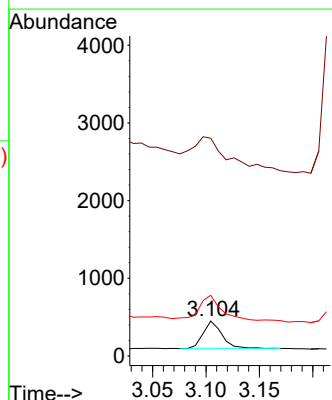
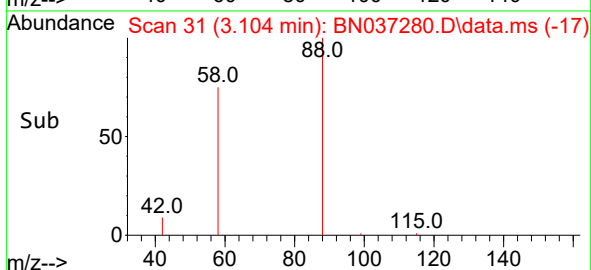
Tgt Ion:152 Resp: 1101
 Ion Ratio Lower Upper
 152 100
 150 154.2 125.2 187.8
 115 72.1 58.4 87.6

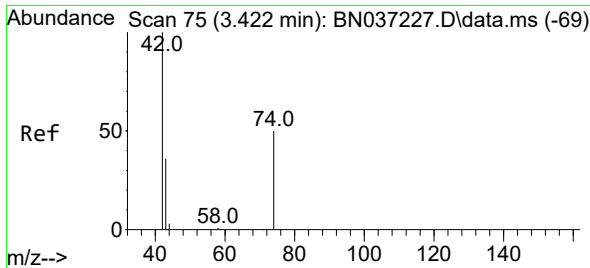


#2
 1,4-Dioxane
 Concen: 0.296 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037280.D
 Acq: 15 Jun 2025 02:42



Tgt Ion: 88 Resp: 447
 Ion Ratio Lower Upper
 88 100
 43 243.8 52.6 79.0#
 58 133.8 73.5 110.3#

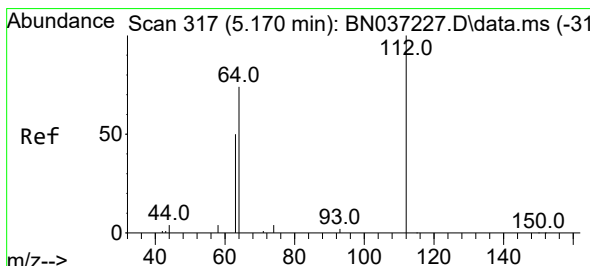
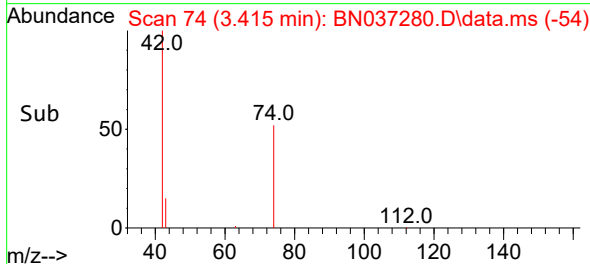
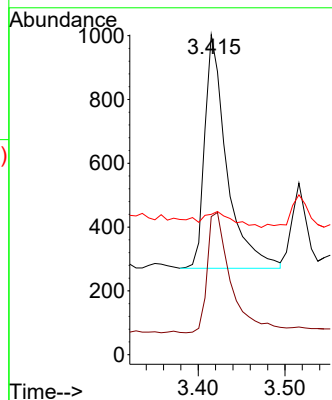
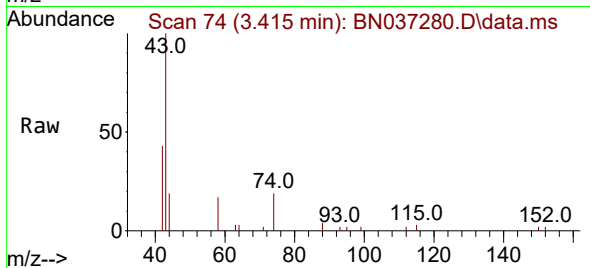




#3
n-Nitrosodimethylamine
Concen: 0.376 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

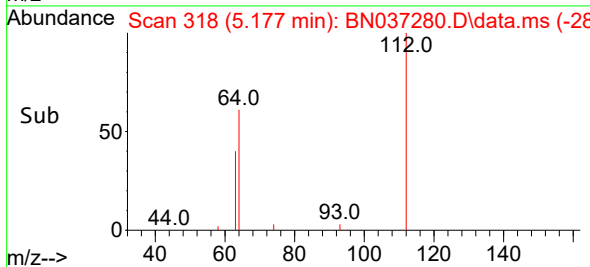
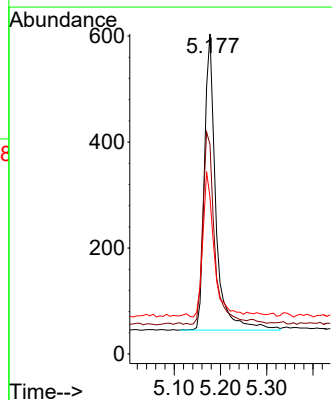
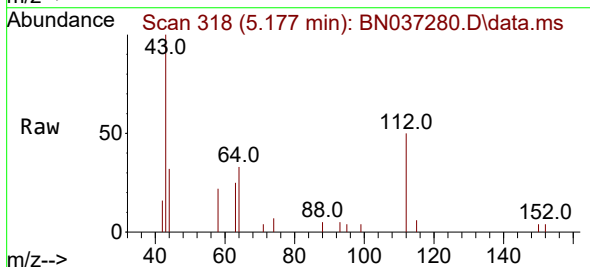
Instrument :
BNA_N
ClientSampleId :
PB168476BS

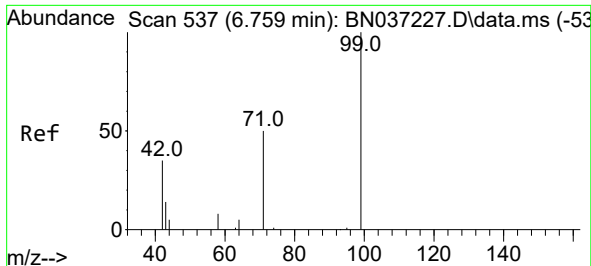
Tgt Ion: 42 Resp: 1294
Ion Ratio Lower Upper
42 100
74 55.5 44.6 66.8
44 8.1 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.355 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion: 112 Resp: 961
Ion Ratio Lower Upper
112 100
64 66.6 57.2 85.8
63 48.0 39.8 59.6

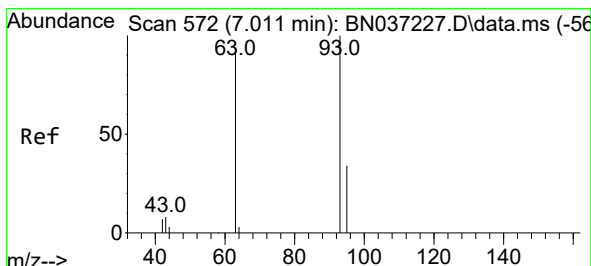
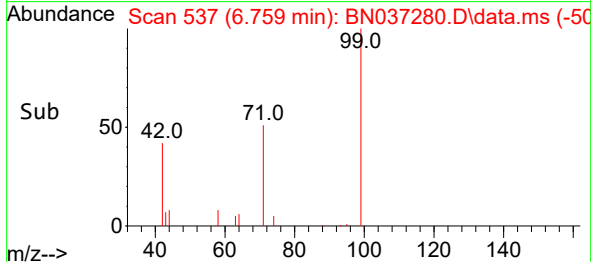
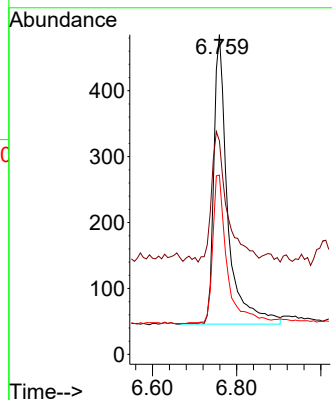
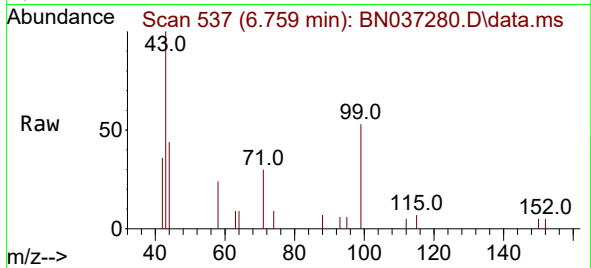




#5
Phenol-d6
Concen: 0.355 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

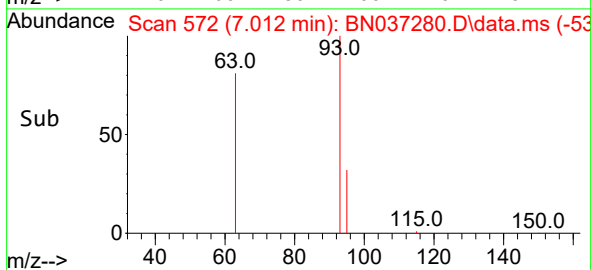
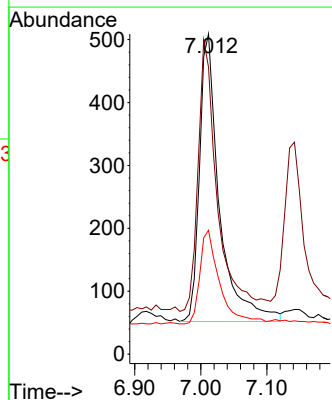
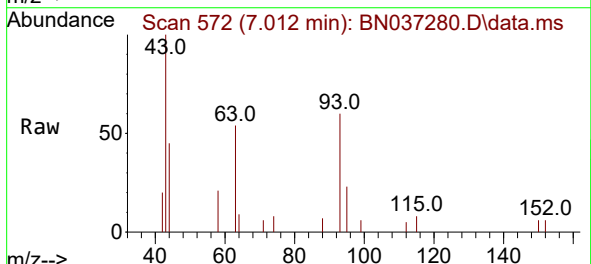
Instrument :
BNA_N
ClientSampleId :
PB168476BS

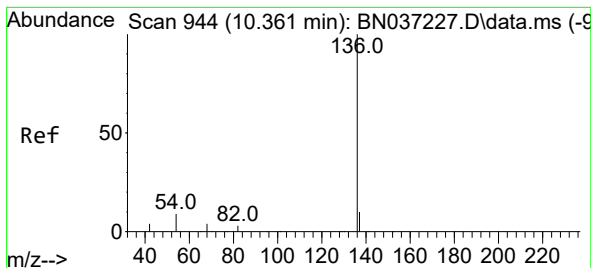
Tgt Ion:	99	Resp:	1013
Ion	Ratio	Lower	Upper
99	100		
42	50.8	36.2	54.4
71	52.3	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion:	93	Resp:	958
Ion	Ratio	Lower	Upper
93	100		
63	89.5	75.2	112.8
95	32.3	28.3	42.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan# 94

Delta R.T. -0.010 min

Lab File: BN037280.D

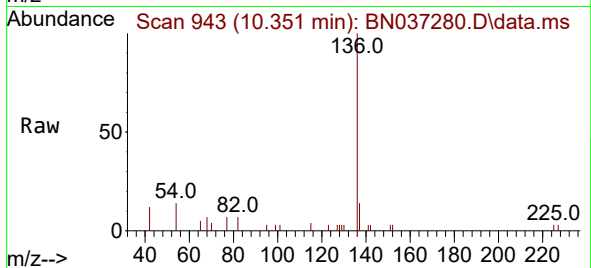
Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS



Tgt Ion:136 Resp: 2637

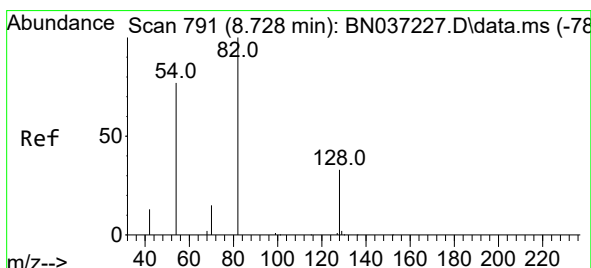
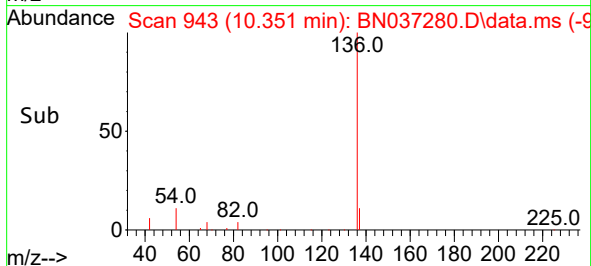
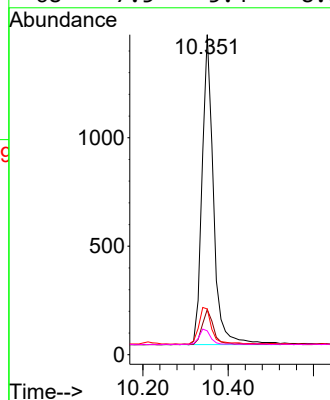
Ion Ratio Lower Upper

136 100

137 14.1 10.6 15.8

54 14.3 9.2 13.8#

68 7.5 5.4 8.0



#8

Nitrobenzene-d5

Concen: 0.376 ng

RT: 8.728 min Scan# 791

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

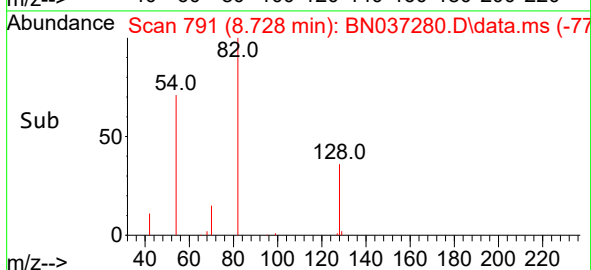
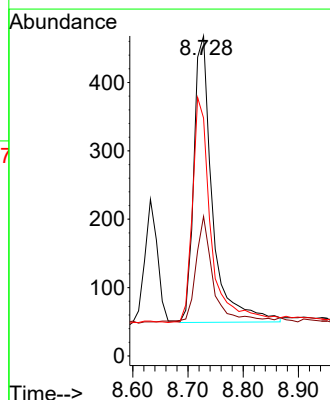
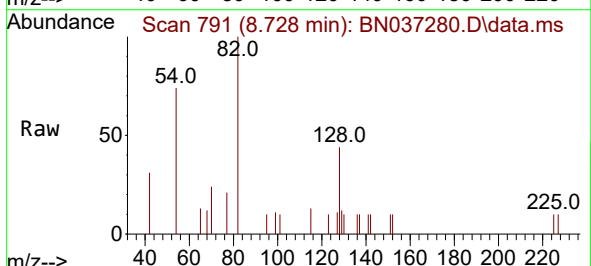
Tgt Ion: 82 Resp: 979

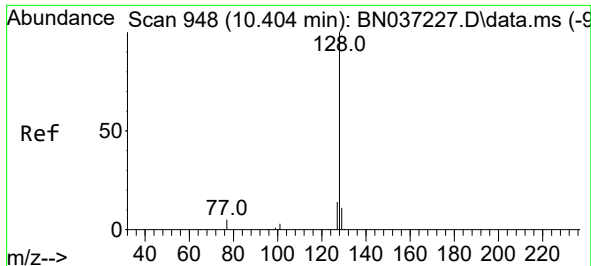
Ion Ratio Lower Upper

82 100

128 43.6 31.2 46.8

54 74.4 63.3 94.9

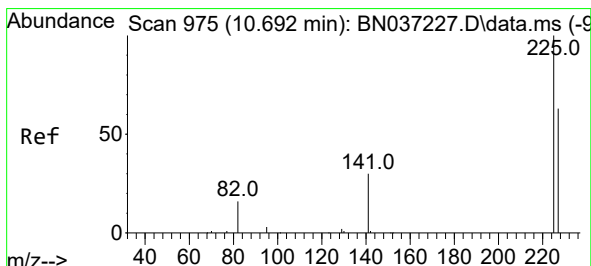
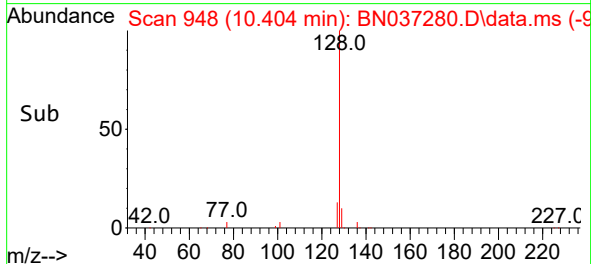
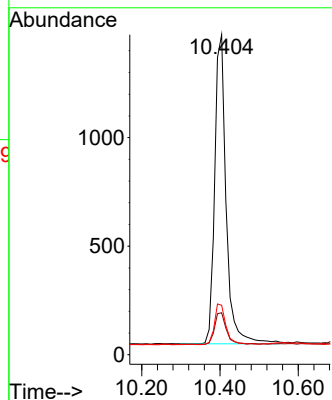
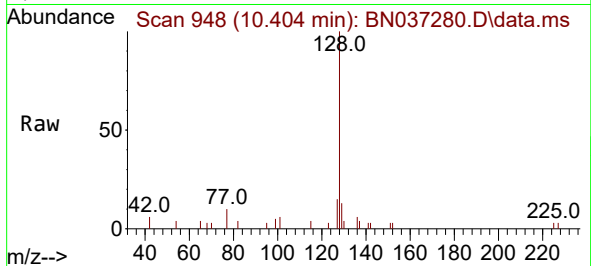




#9
Naphthalene
Concen: 0.380 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

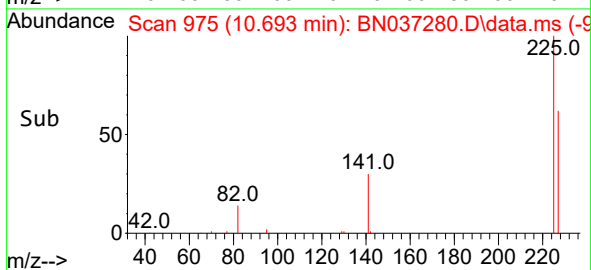
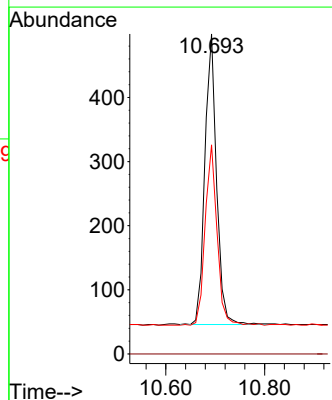
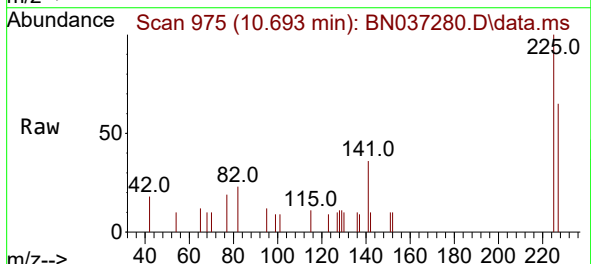
Instrument :
BNA_N
ClientSampleId :
PB168476BS

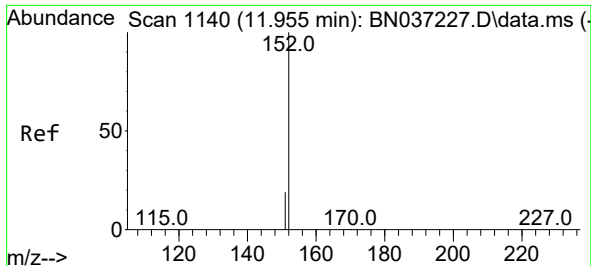
Tgt Ion:	128	Resp:	2899
Ion	Ratio	Lower	Upper
128	100		
129	13.1	10.7	16.1
127	15.5	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.401 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion:	225	Resp:	744
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	49.2	73.8





#11

2-Methylnaphthalene-d10

Concen: 0.670 ng

RT: 11.950 min Scan# 1139

Delta R.T. -0.005 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

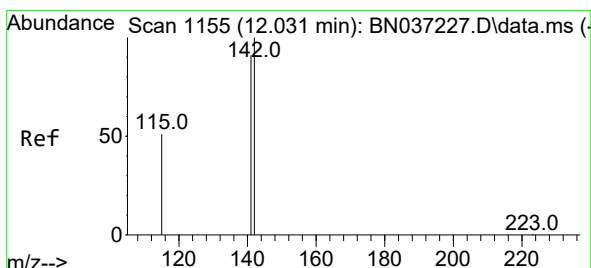
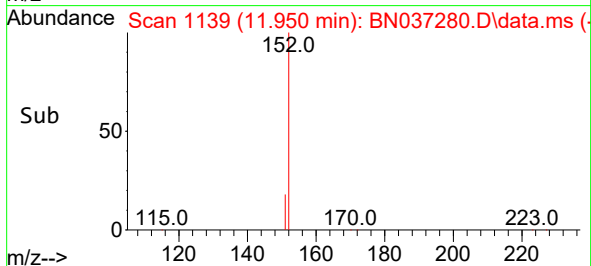
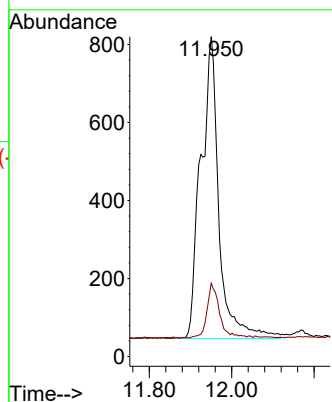
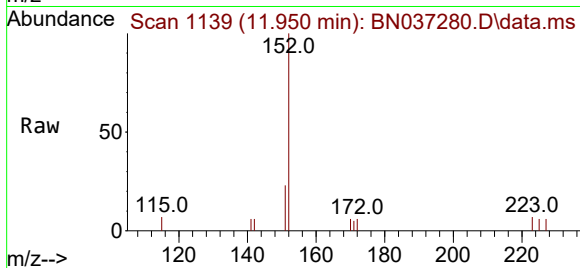
PB168476BS

Tgt Ion:152 Resp: 2371

Ion Ratio Lower Upper

152 100

151 12.3 17.9 26.9#



#12

2-Methylnaphthalene

Concen: 0.340 ng

RT: 12.026 min Scan# 1154

Delta R.T. -0.005 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

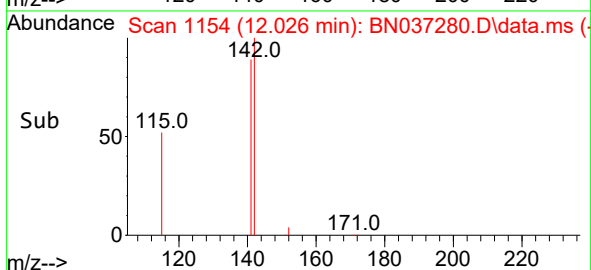
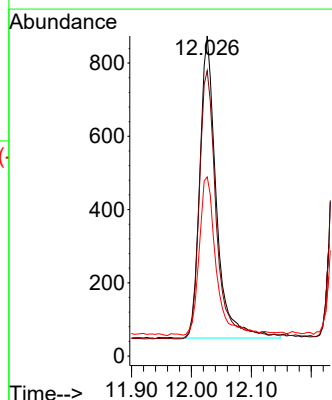
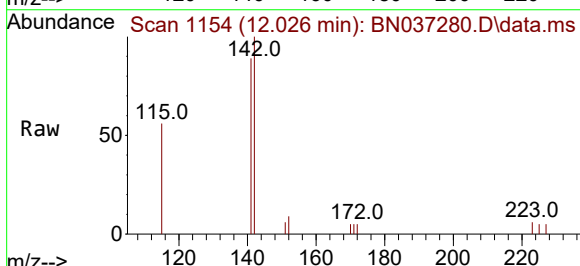
Tgt Ion:142 Resp: 1579

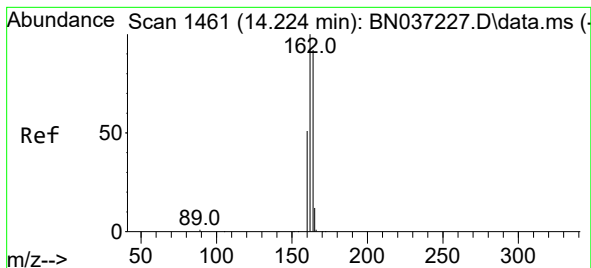
Ion Ratio Lower Upper

142 100

141 89.1 73.0 109.6

115 55.9 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS

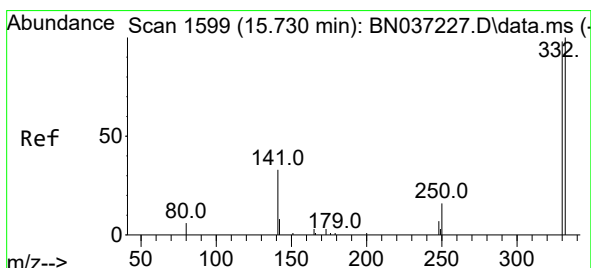
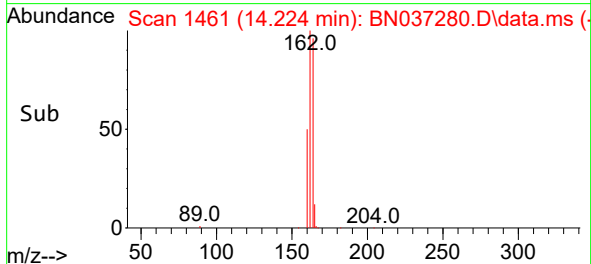
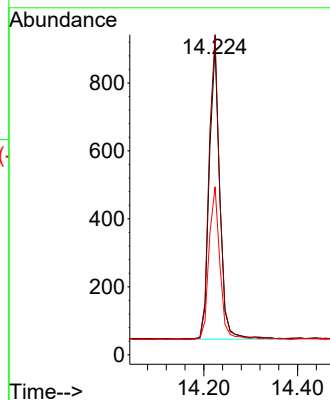
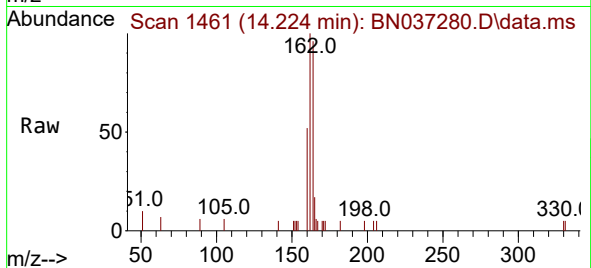
Tgt Ion:164 Resp: 1350

Ion Ratio Lower Upper

164 100

162 103.9 86.7 130.1

160 54.5 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.353 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

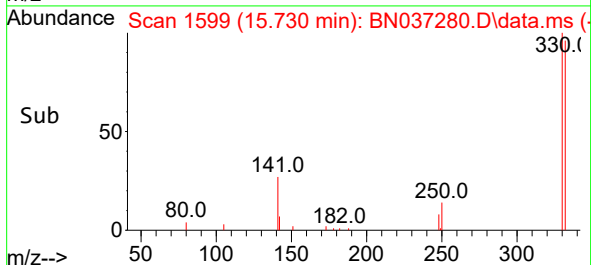
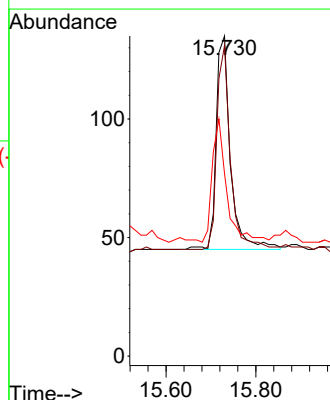
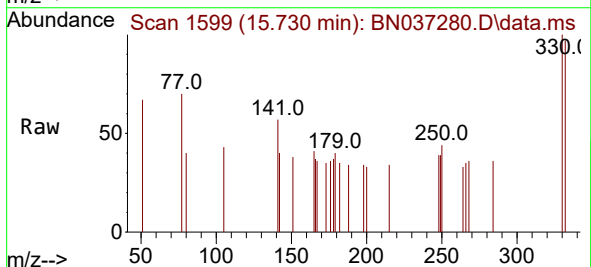
Tgt Ion:330 Resp: 198

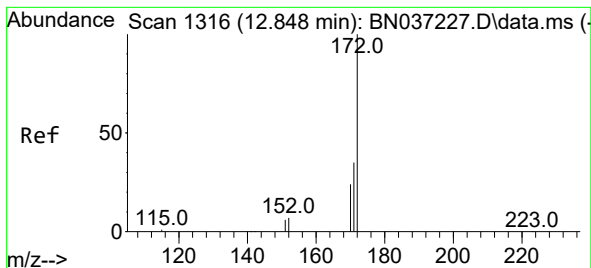
Ion Ratio Lower Upper

330 100

332 90.9 74.9 112.3

141 53.5 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.387 ng

RT: 12.843 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS

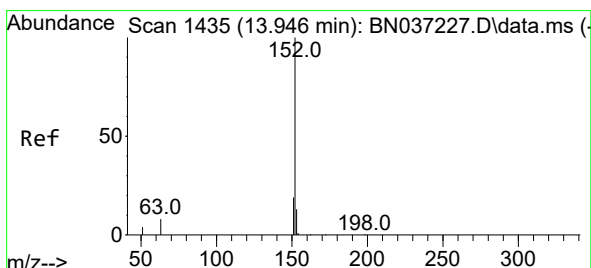
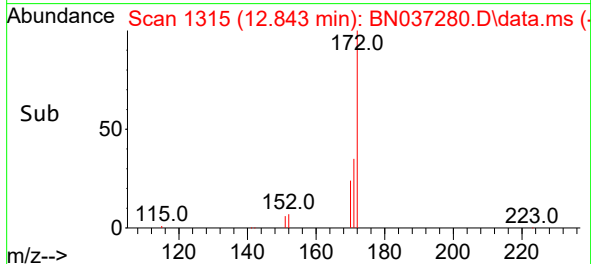
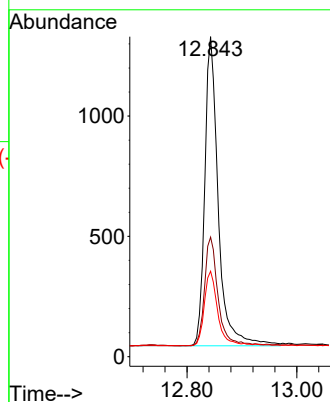
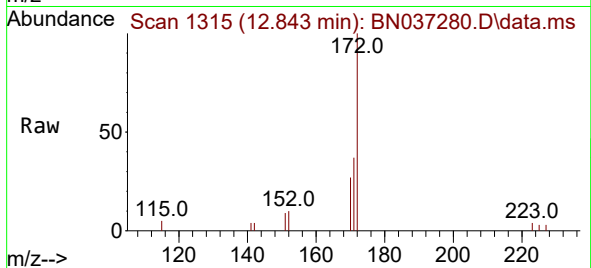
Tgt Ion:172 Resp: 2195

Ion Ratio Lower Upper

172 100

171 37.4 29.8 44.8

170 26.7 21.1 31.7



#16

Acenaphthylene

Concen: 0.399 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.010 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

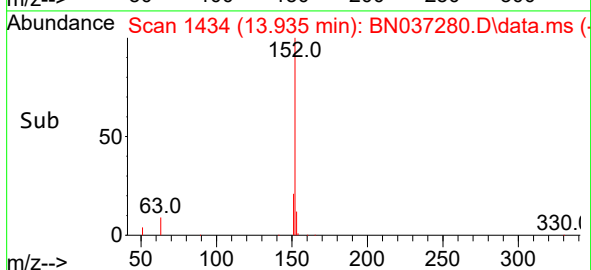
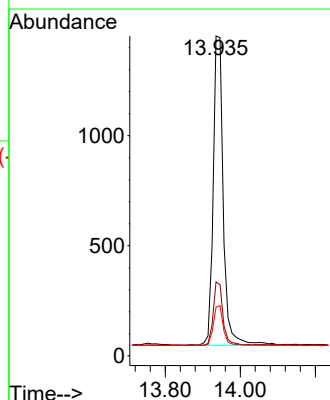
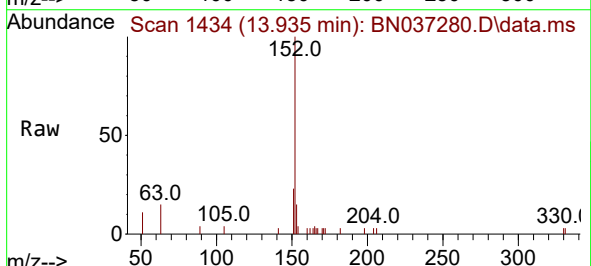
Tgt Ion:152 Resp: 2642

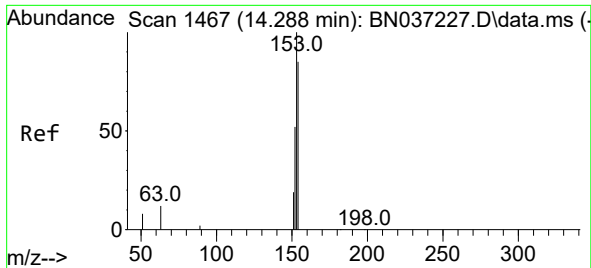
Ion Ratio Lower Upper

152 100

151 20.0 15.7 23.5

153 12.8 10.7 16.1

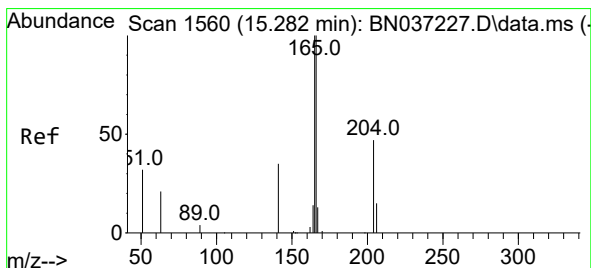
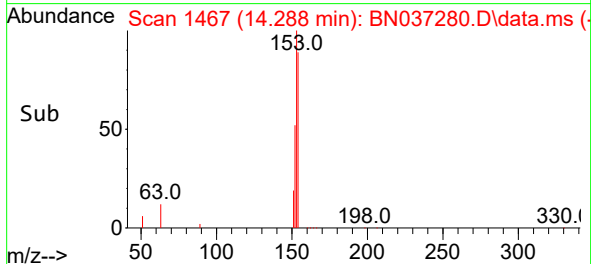
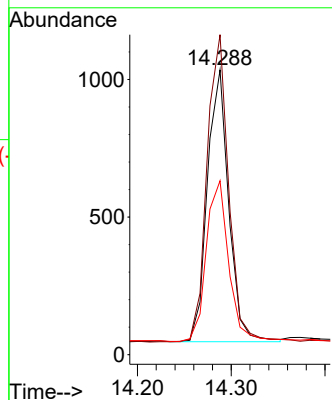
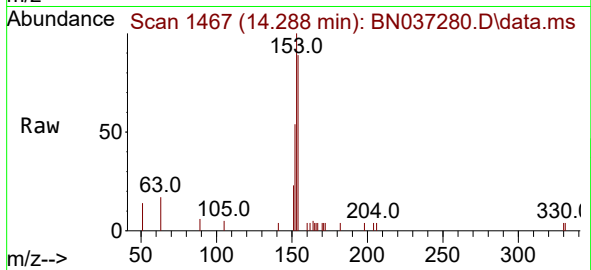




#17
Acenaphthene
Concen: 0.366 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

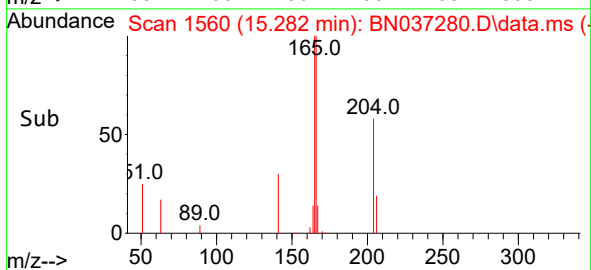
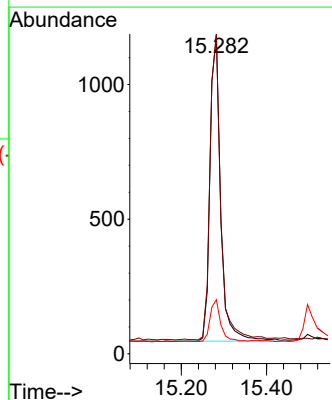
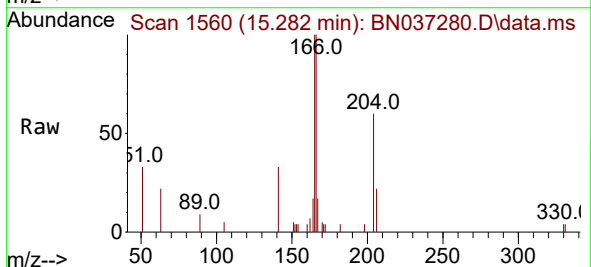
Instrument :
BNA_N
ClientSampleId :
PB168476BS

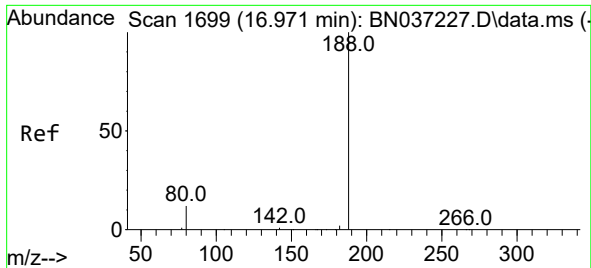
Tgt Ion:154 Resp: 1561
Ion Ratio Lower Upper
154 100
153 115.1 94.6 141.8
152 63.2 49.6 74.4



#18
Fluorene
Concen: 0.361 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion:166 Resp: 1981
Ion Ratio Lower Upper
166 100
165 99.1 79.8 119.6
167 13.5 10.8 16.2

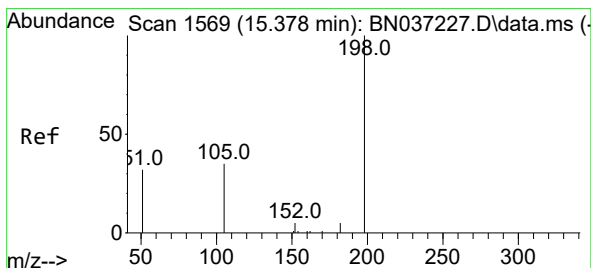
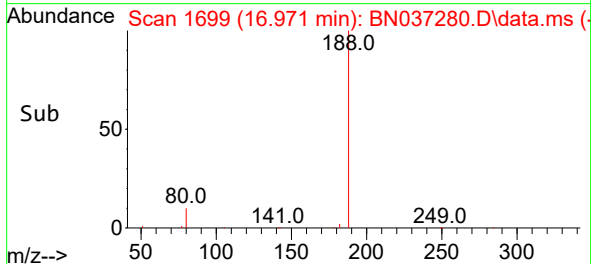
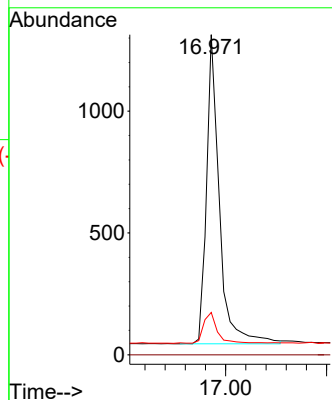
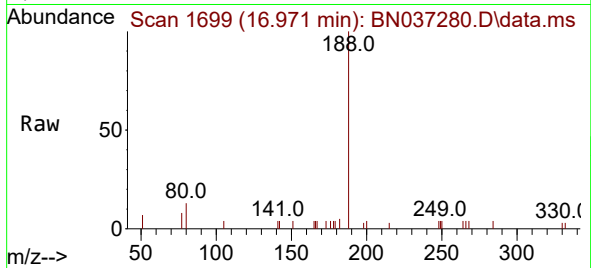




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

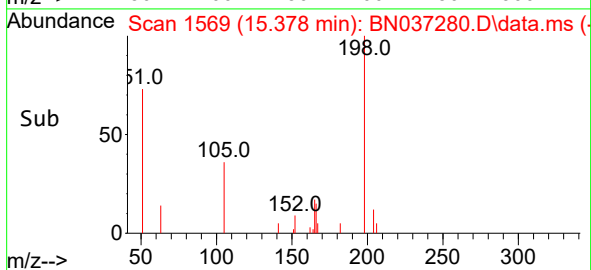
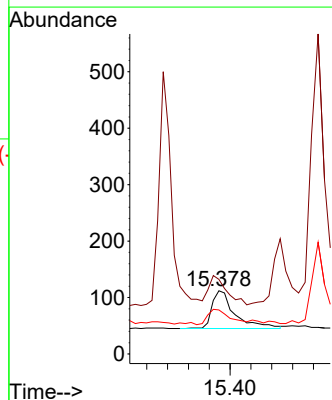
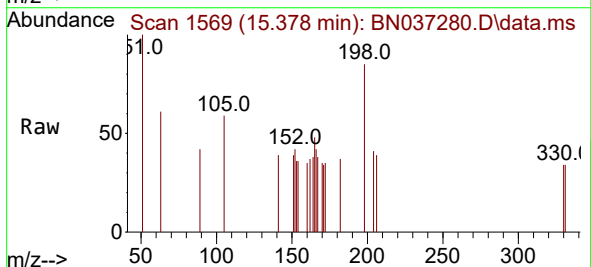
Instrument :
BNA_N
ClientSampleId :
PB168476BS

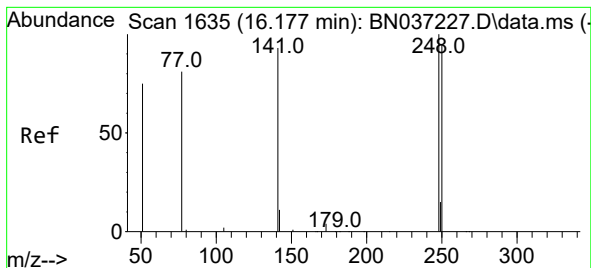
Tgt Ion:188 Resp: 2251
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.2 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.463 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion:198 Resp: 205
Ion Ratio Lower Upper
198 100
51 117.9 111.2 166.8
105 69.6 54.0 81.0

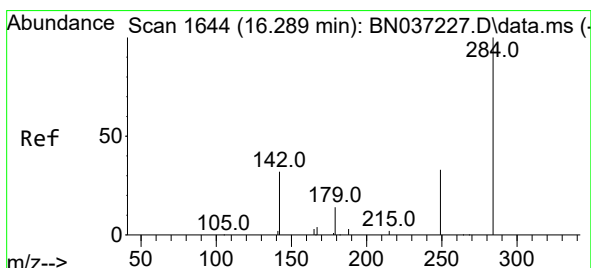
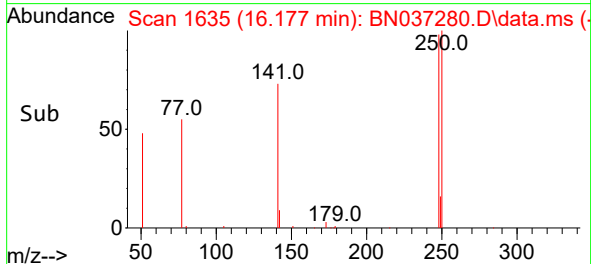
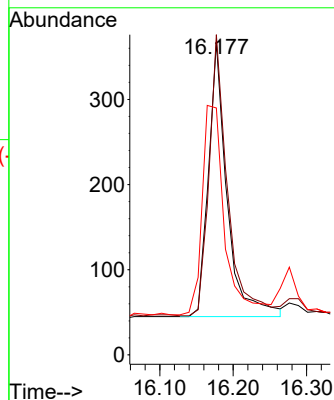
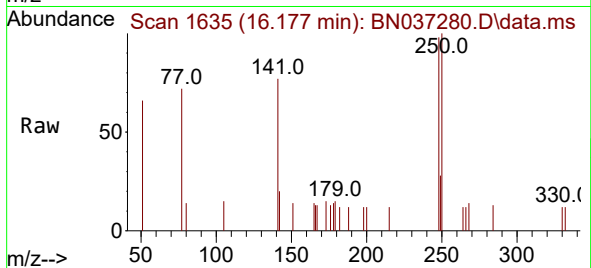




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

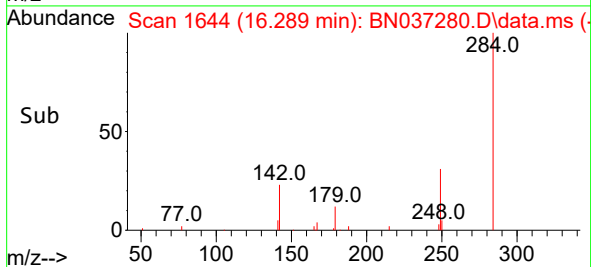
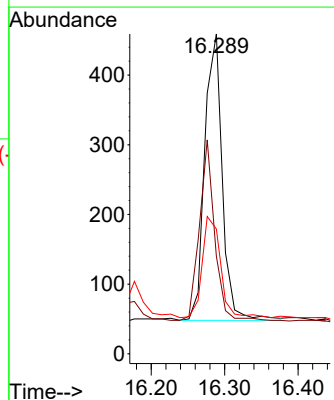
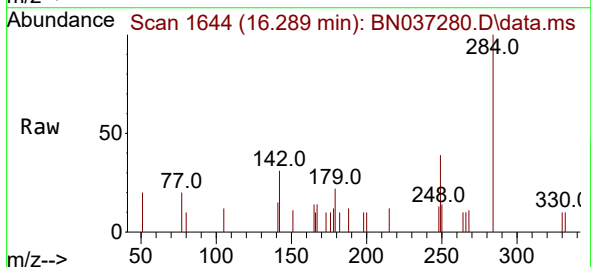
Instrument :
BNA_N
ClientSampleId :
PB168476BS

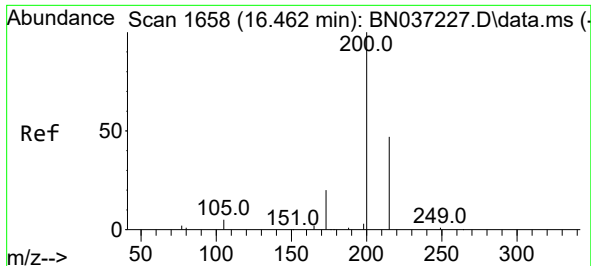
Tgt Ion:248 Resp: 566
Ion Ratio Lower Upper
248 100
250 102.5 76.8 115.2
141 79.0 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion:284 Resp: 682
Ion Ratio Lower Upper
284 100
142 55.4 43.8 65.6
249 37.1 28.4 42.6

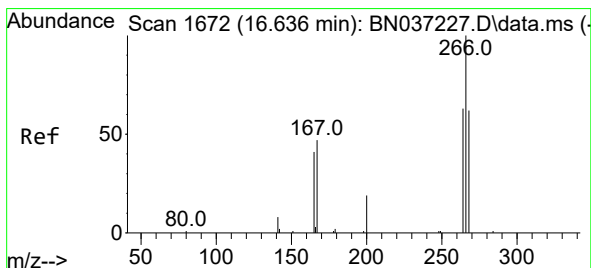
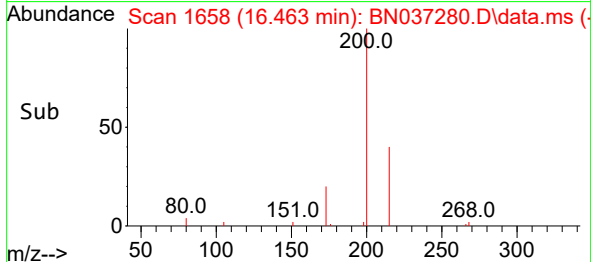
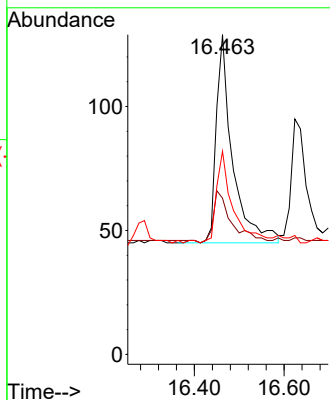
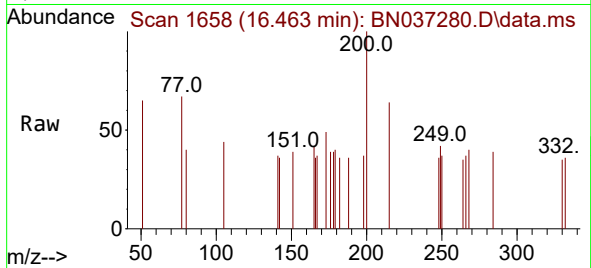




#23
 Atrazine
 Concen: 0.162 ng
 RT: 16.463 min Scan# 1658
 Delta R.T. 0.000 min
 Lab File: BN037280.D
 Acq: 15 Jun 2025 02:42

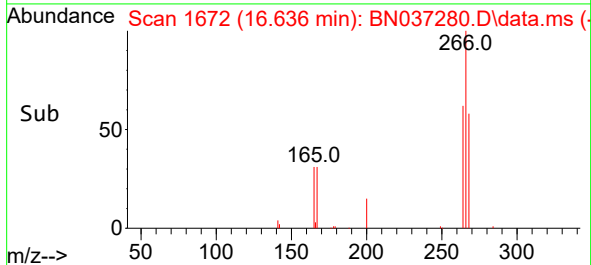
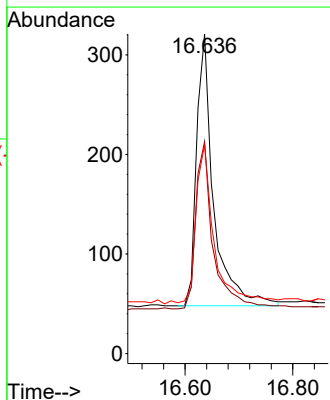
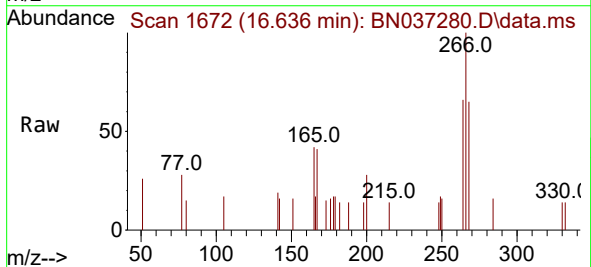
Instrument :
 BNA_N
 ClientSampleId :
 PB168476BS

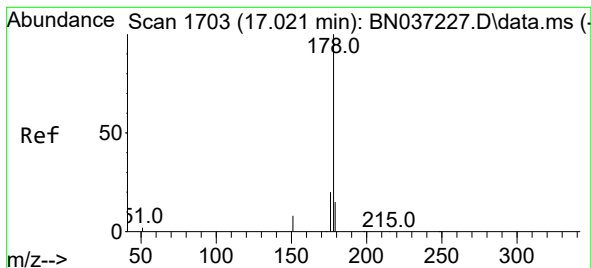
Tgt Ion:200 Resp: 212
 Ion Ratio Lower Upper
 200 100
 173 48.8 25.1 37.7#
 215 63.6 43.7 65.5



#24
 Pentachlorophenol
 Concen: 0.720 ng
 RT: 16.636 min Scan# 1672
 Delta R.T. 0.000 min
 Lab File: BN037280.D
 Acq: 15 Jun 2025 02:42

Tgt Ion:266 Resp: 600
 Ion Ratio Lower Upper
 266 100
 264 63.2 49.2 73.8
 268 63.2 53.4 80.2





#25

Phenanthrene

Concen: 0.377 ng

RT: 17.009 min Scan# 1702

Delta R.T. -0.012 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS

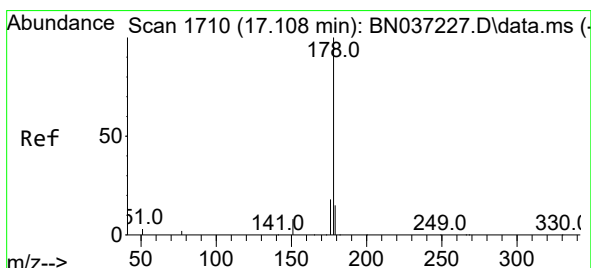
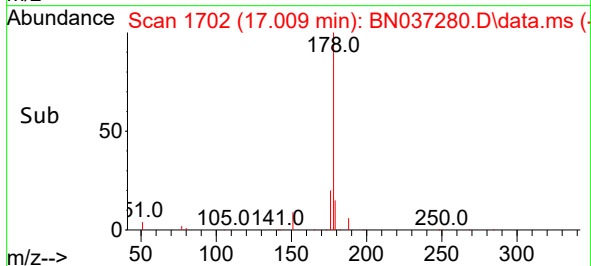
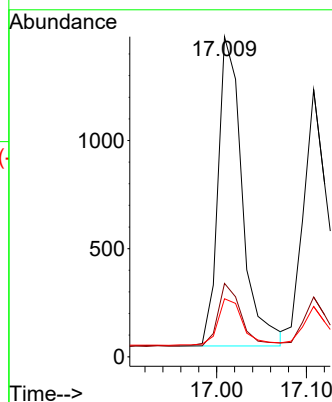
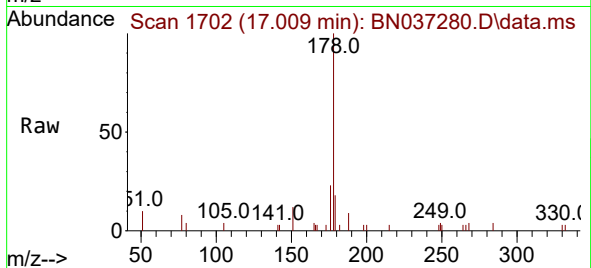
Tgt Ion:178 Resp: 2688

Ion Ratio Lower Upper

178 100

176 19.6 16.3 24.5

179 15.7 12.6 18.8



#26

Anthracene

Concen: 0.385 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

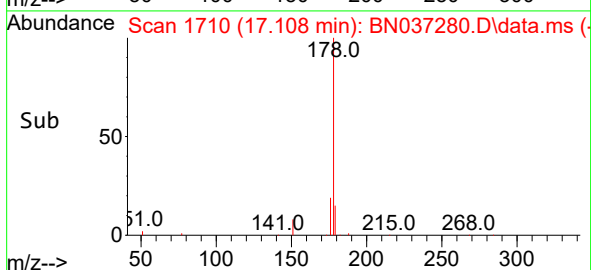
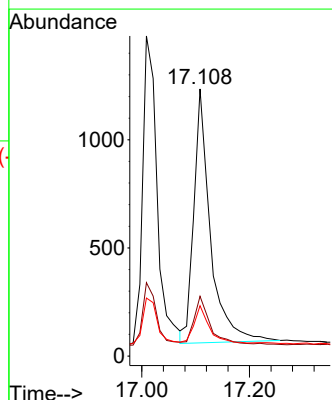
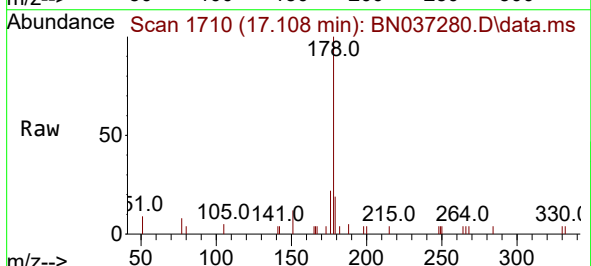
Tgt Ion:178 Resp: 2516

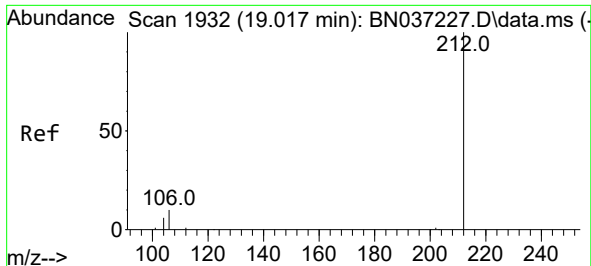
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 13.6 12.4 18.6

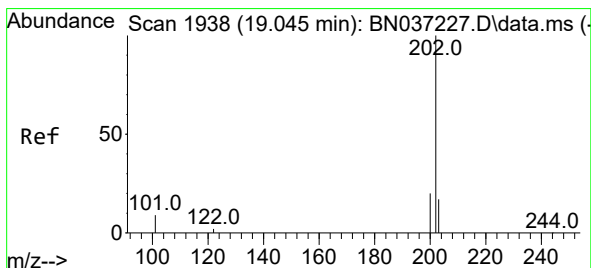
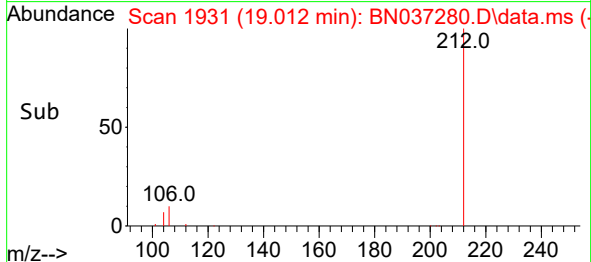
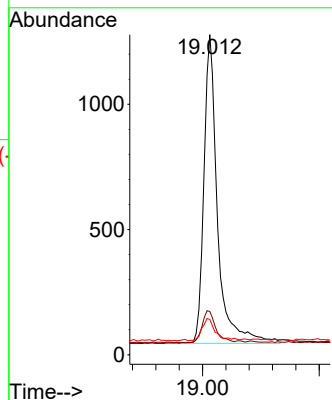
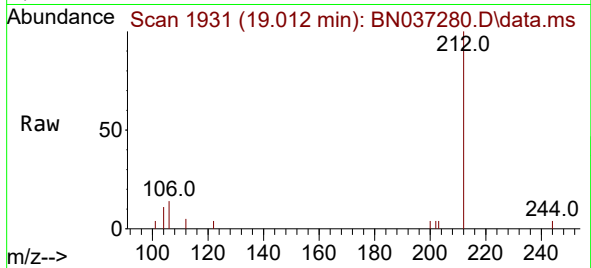




#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 19.012 min Scan# 1932
Delta R.T. -0.004 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

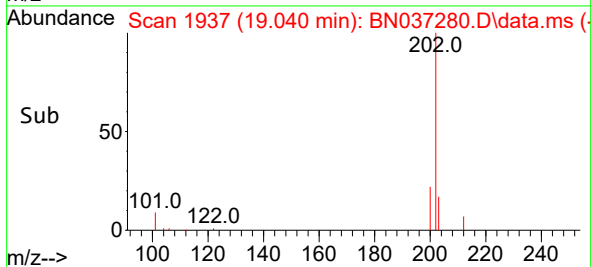
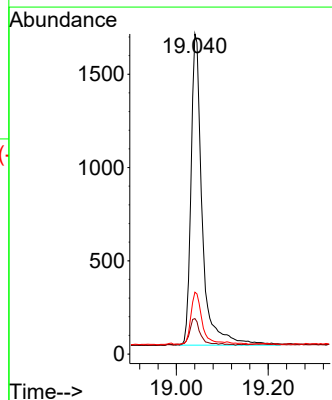
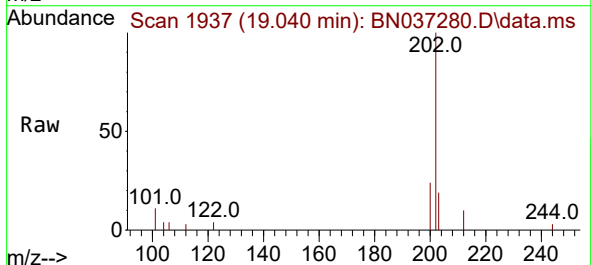
Instrument :
BNA_N
ClientSampleId :
PB168476BS

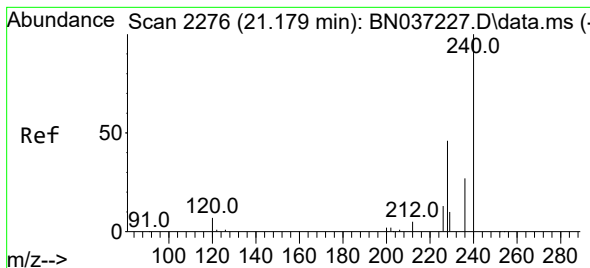
Tgt Ion:212 Resp: 1999
Ion Ratio Lower Upper
212 100
106 10.5 9.3 13.9
104 7.1 5.7 8.5



#28
Fluoranthene
Concen: 0.339 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.004 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion:202 Resp: 2829
Ion Ratio Lower Upper
202 100
101 8.6 7.1 10.7
203 16.5 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS

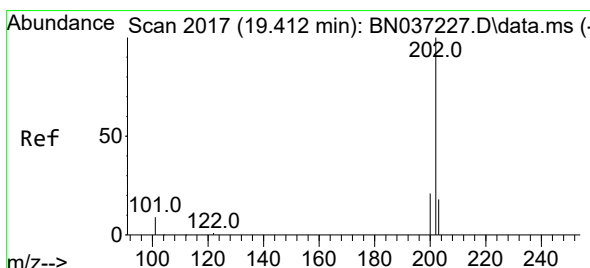
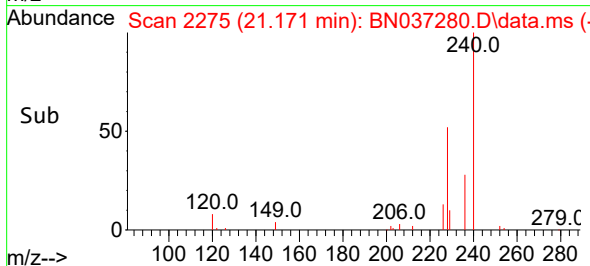
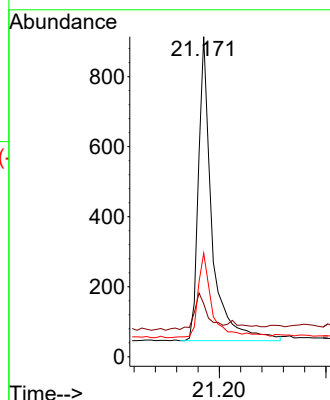
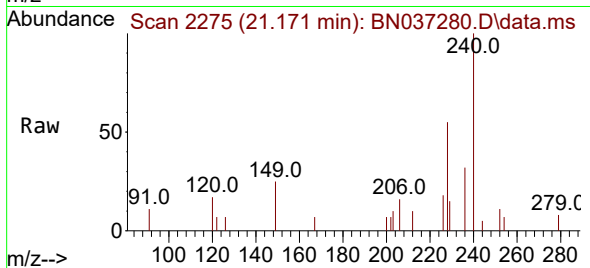
Tgt Ion:240 Resp: 1528

Ion Ratio Lower Upper

240 100

120 16.5 11.3 16.9

236 32.4 24.4 36.6



#30

Pyrene

Concen: 0.386 ng

RT: 19.403 min Scan# 2015

Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

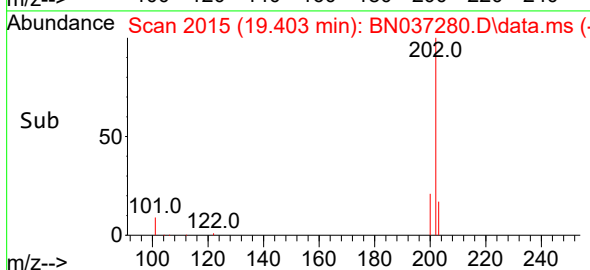
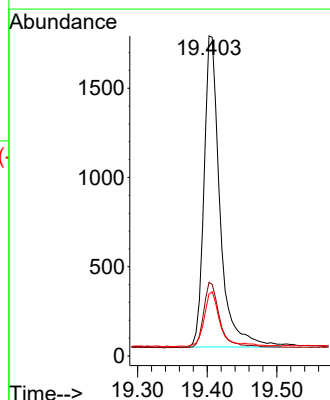
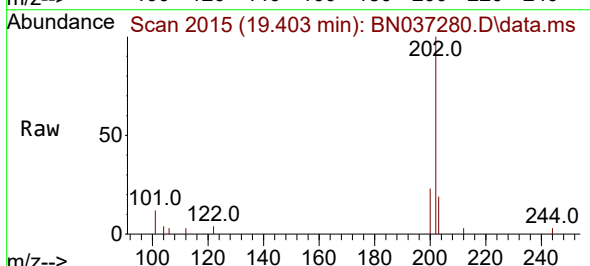
Tgt Ion:202 Resp: 2773

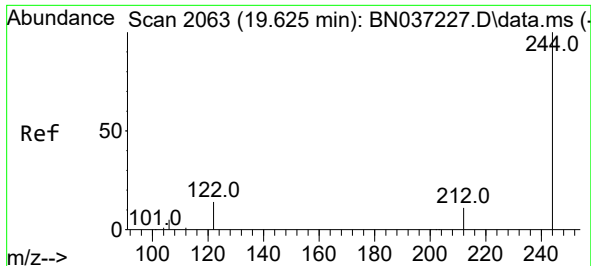
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 16.9 14.3 21.5

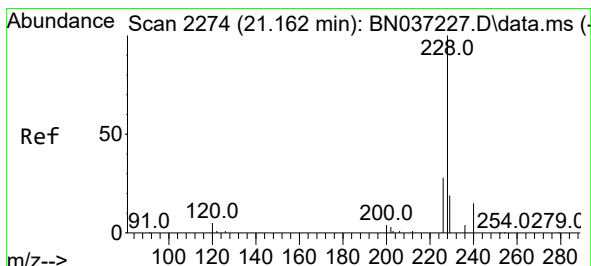
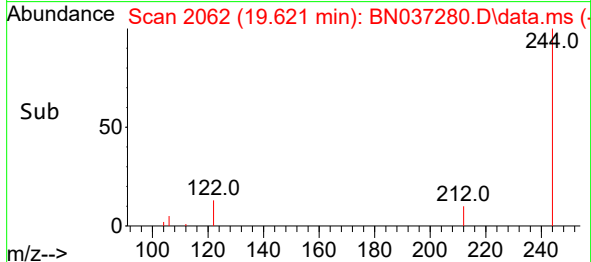
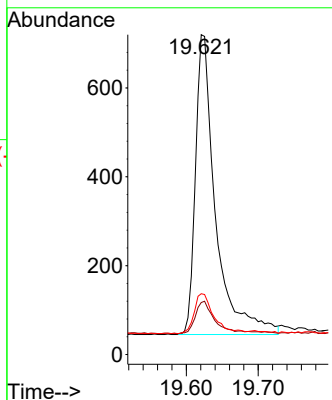
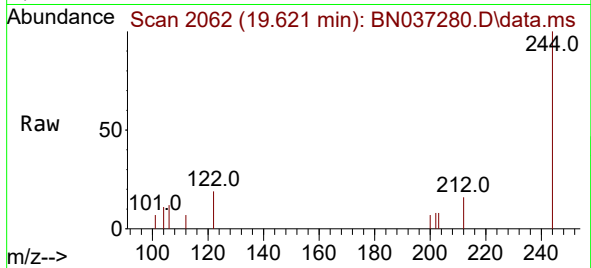




#31
 Terphenyl-d14
 Concen: 0.380 ng
 RT: 19.621 min Scan# 2062
 Delta R.T. -0.004 min
 Lab File: BN037280.D
 Acq: 15 Jun 2025 02:42

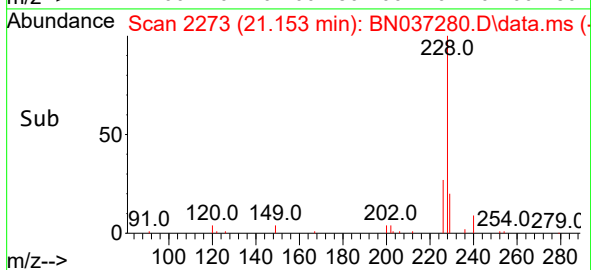
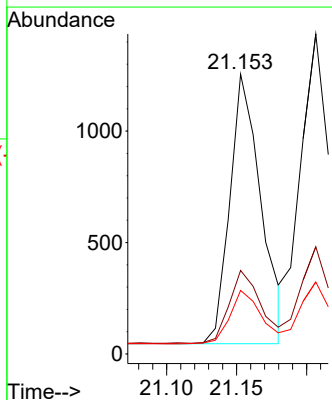
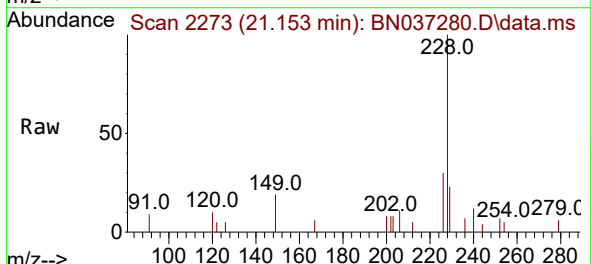
Instrument :
 BNA_N
 ClientSampleId :
 PB168476BS

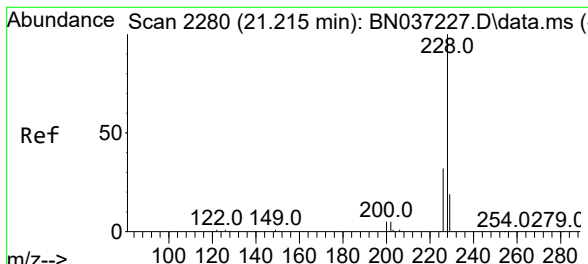
Tgt Ion:	244	Resp:	1313
Ion Ratio	Lower	Upper	
244	100		
212	16.2	12.2	18.2
122	19.0	14.3	21.5



#32
 Benzo(a)anthracene
 Concen: 0.364 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. -0.009 min
 Lab File: BN037280.D
 Acq: 15 Jun 2025 02:42

Tgt Ion:	228	Resp:	1878
Ion Ratio	Lower	Upper	
228	100		
226	29.9	23.8	35.8
229	22.7	17.0	25.4



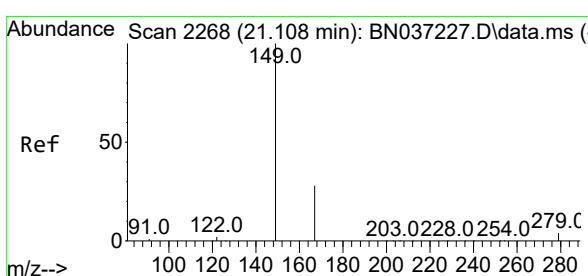
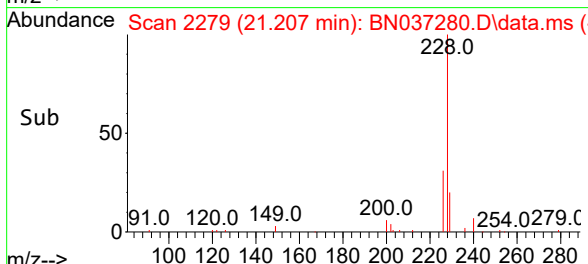
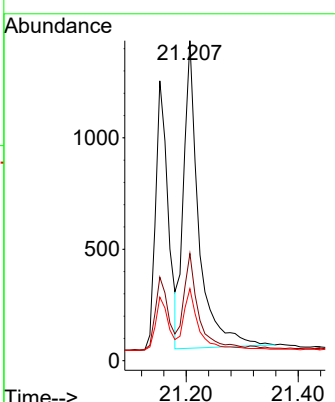
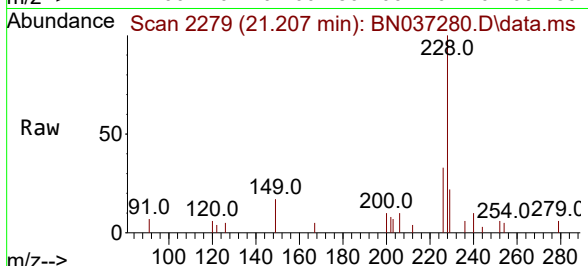


#33
Chrysene
Concen: 0.404 ng
RT: 21.207 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Instrument :
BNA_N
ClientSampleId :
PB168476BS

Tgt Ion:228 Resp: 2594

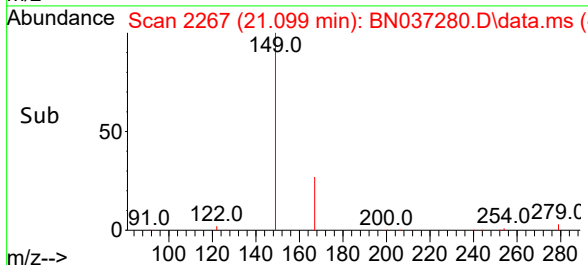
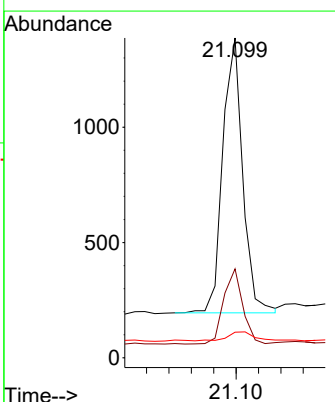
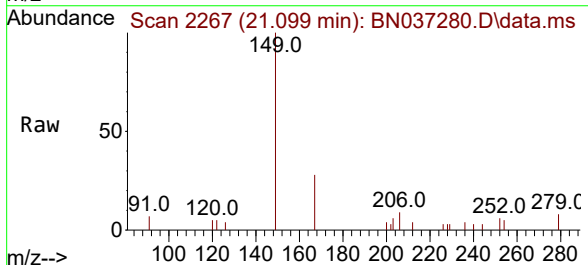
Ion	Ratio	Lower	Upper
228	100		
226	33.5	25.8	38.6
229	22.5	17.0	25.4

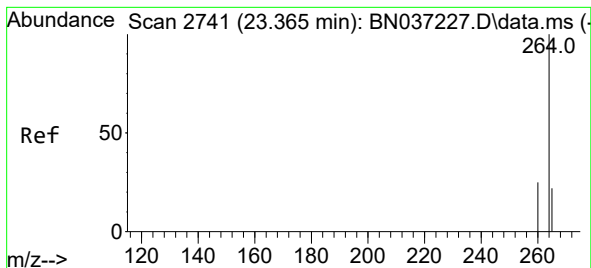


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.383 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Tgt Ion:149 Resp: 1471

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.3	31.9
279	4.5	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037280.D

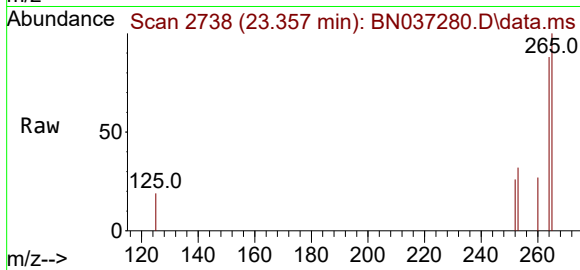
Acq: 15 Jun 2025 02:42

Instrument :

BNA_N

ClientSampleId :

PB168476BS



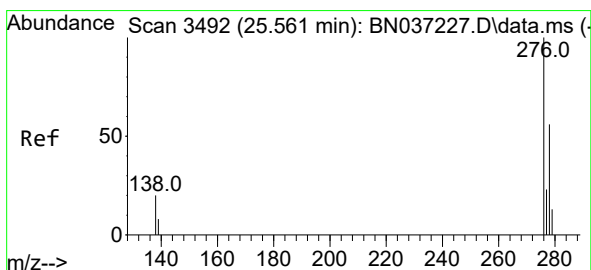
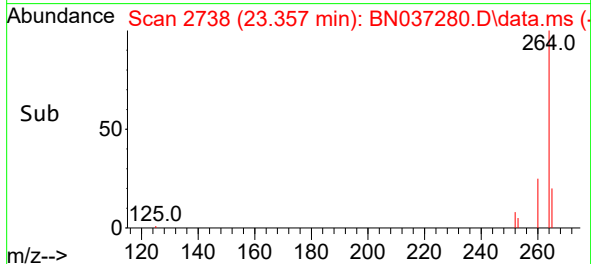
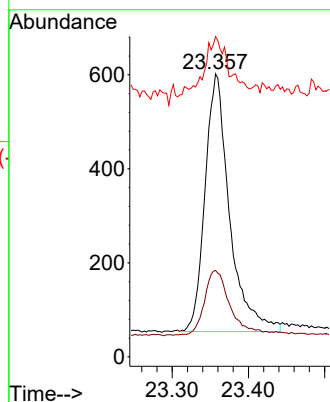
Tgt Ion:264 Resp: 1224

Ion Ratio Lower Upper

264 100

260 30.6 22.8 34.2

265 113.1 66.4 99.6#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.487 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.014 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

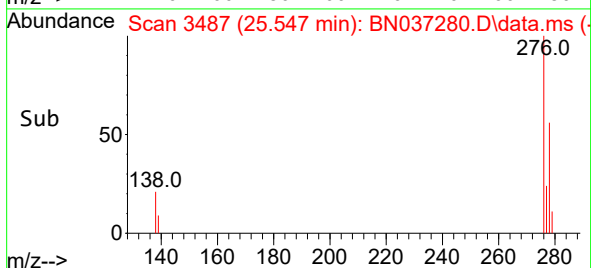
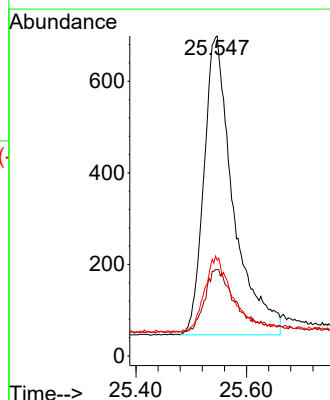
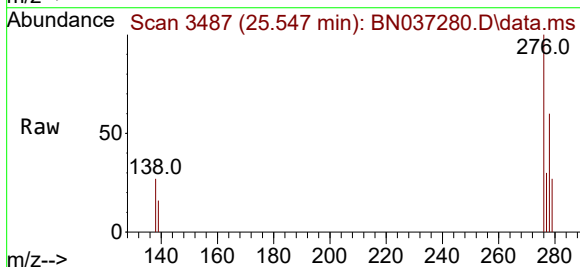
Tgt Ion:276 Resp: 2405

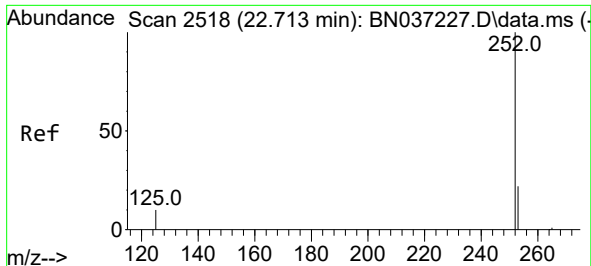
Ion Ratio Lower Upper

276 100

138 22.6 16.8 25.2

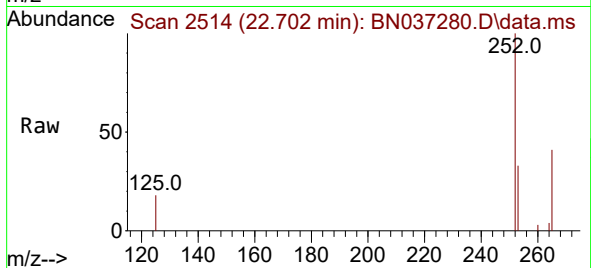
277 23.1 19.5 29.3



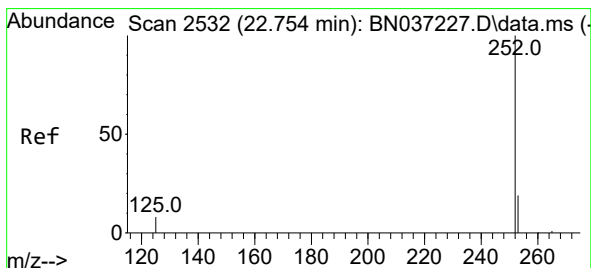
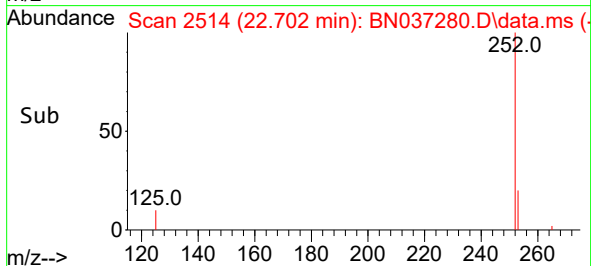
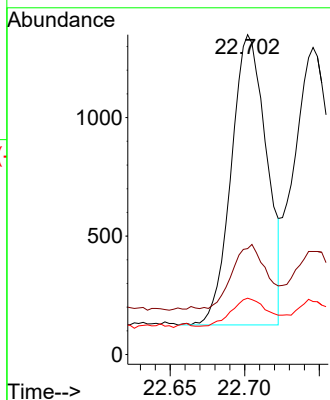


#37
Benzo(b)fluoranthene
Concen: 0.451 ng
RT: 22.702 min Scan# 2514
Delta R.T. -0.012 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Instrument :
BNA_N
ClientSampleId :
PB168476BS

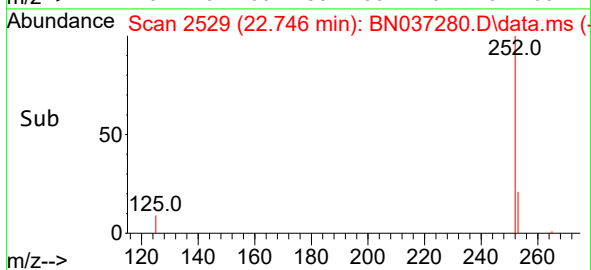
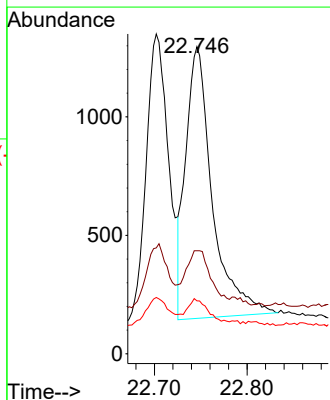
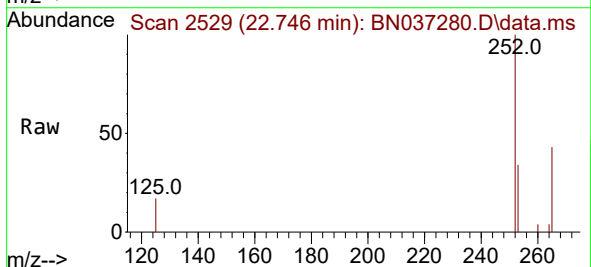


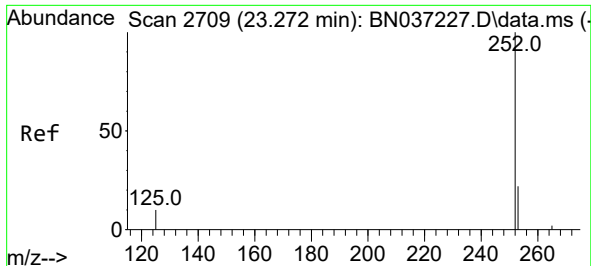
Tgt Ion:252 Resp: 2018
Ion Ratio Lower Upper
252 100
253 33.1 24.9 37.3
125 17.6 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.442 ng
RT: 22.746 min Scan# 2529
Delta R.T. -0.009 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

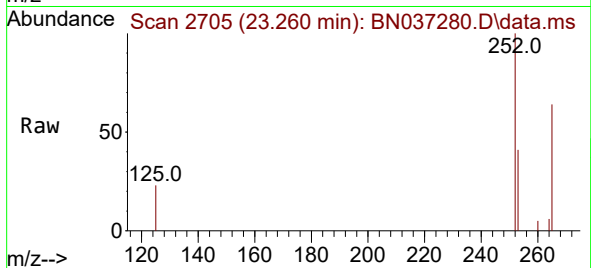
Tgt Ion:252 Resp: 2286
Ion Ratio Lower Upper
252 100
253 33.6 24.6 37.0
125 17.3 13.4 20.2



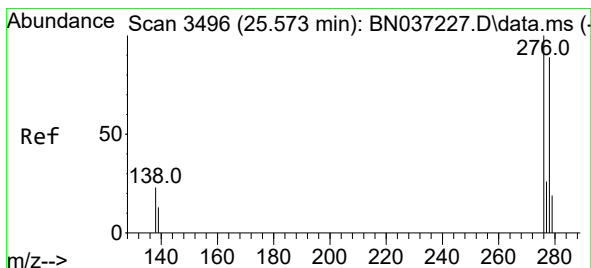
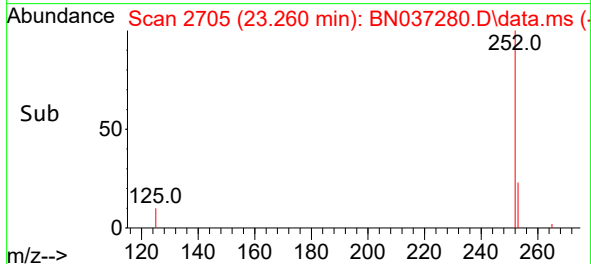
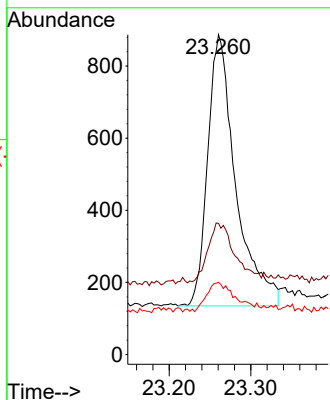


#39
Benzo(a)pyrene
Concen: 0.445 ng
RT: 23.260 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

Instrument :
BNA_N
ClientSampleId :
PB168476BS

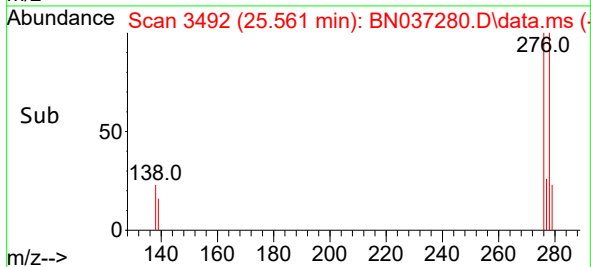
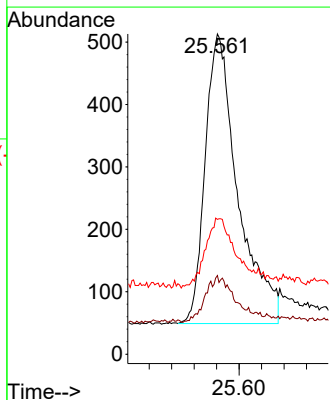
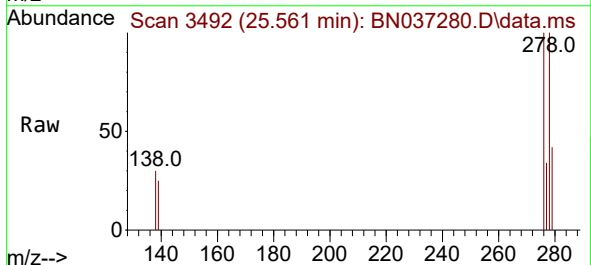


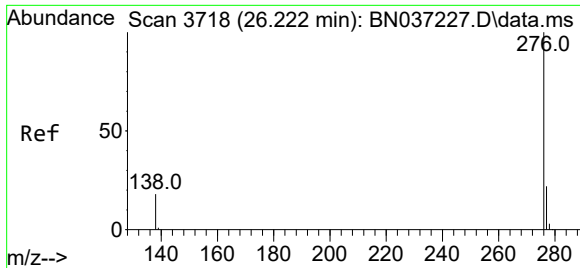
Tgt Ion:252 Resp: 1793
Ion Ratio Lower Upper
252 100
253 41.0 29.4 44.2
125 22.5 16.2 24.2



#40
Dibenzo(a,h)anthracene
Concen: 0.500 ng
RT: 25.561 min Scan# 3492
Delta R.T. -0.012 min
Lab File: BN037280.D
Acq: 15 Jun 2025 02:42

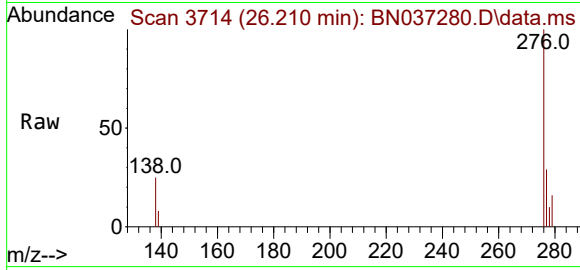
Tgt Ion:278 Resp: 1876
Ion Ratio Lower Upper
278 100
139 24.6 17.8 26.6
279 42.1 31.3 46.9



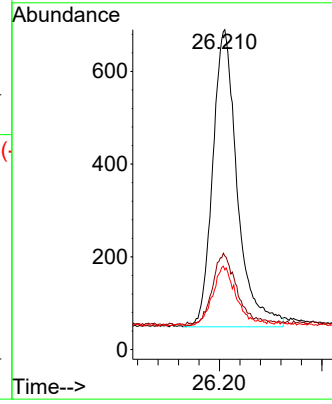
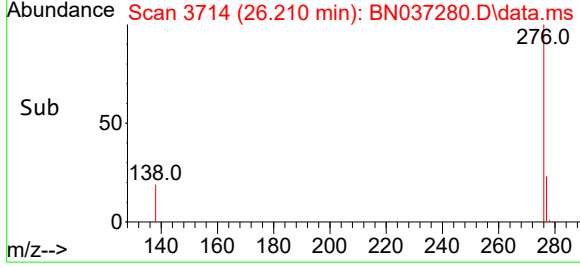


#41
 Benzo(g,h,i)perylene
 Concen: 0.467 ng
 RT: 26.210 min Scan# 31
 Delta R.T. -0.012 min
 Lab File: BN037280.D
 Acq: 15 Jun 2025 02:42

Instrument :
 BNA_N
 ClientSampleId :
 PB168476BS



Tgt Ion:	276	Resp:	2136
Ion Ratio	Lower	Upper	
276	100		
277	29.3	22.0	33.0
138	24.9	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037281.D
 Acq On : 15 Jun 2025 03:18
 Operator : RC/JU
 Sample : PB168476BSD
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168476BSD

Quant Time: Jun 16 02:47:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

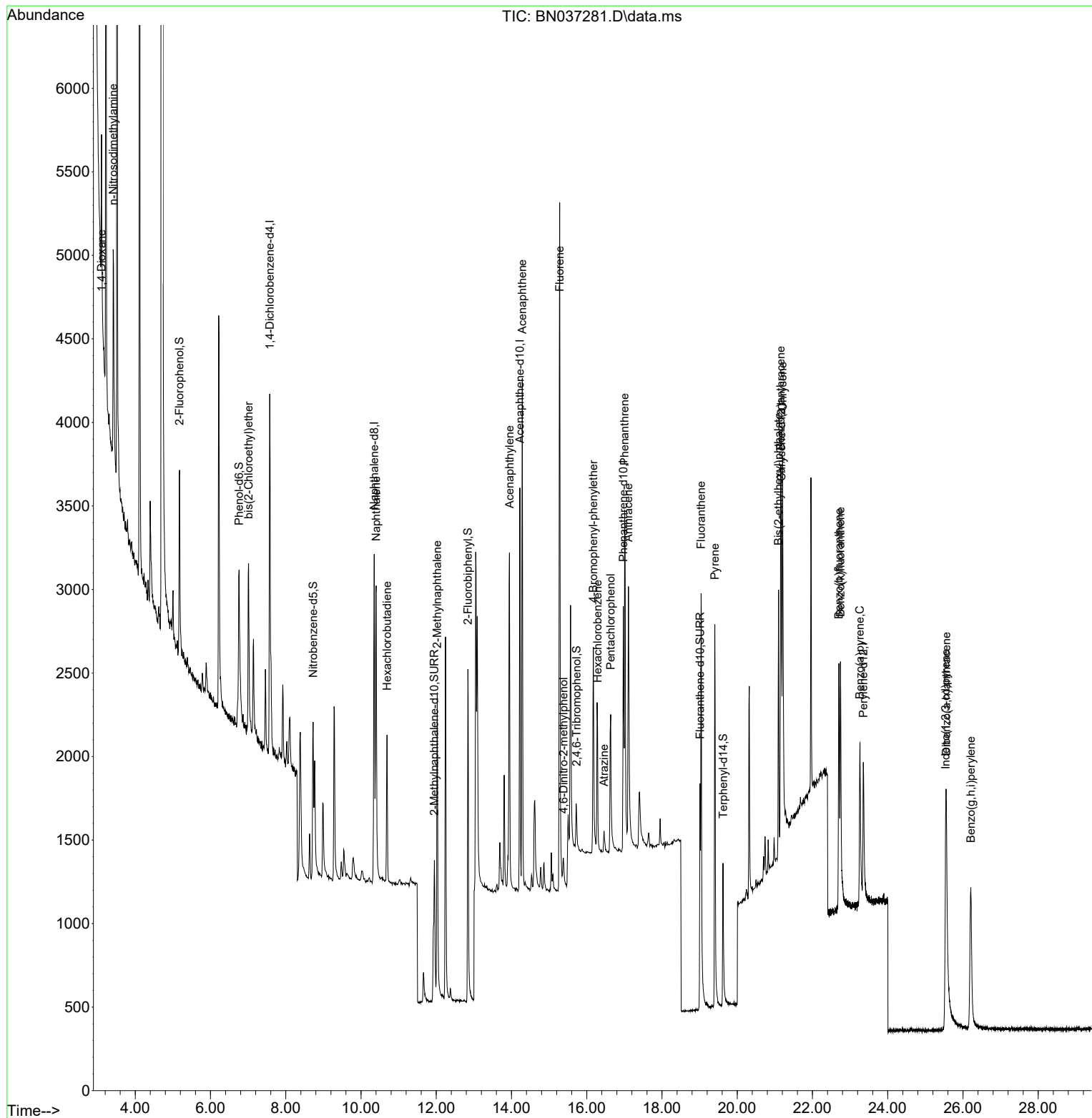
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1070	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2630	0.400	ng	#-0.01
13) Acenaphthene-d10	14.223	164	1332	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2256	0.400	ng	0.00
29) Chrysene-d12	21.170	240	1565	0.400	ng	0.00
35) Perylene-d12	23.354	264	1276	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	878	0.334	ng	0.00
5) Phenol-d6	6.758	99	923	0.333	ng	0.00
8) Nitrobenzene-d5	8.728	82	885	0.340	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	2179	0.617	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	175	0.316	ng	0.00
15) 2-Fluorobiphenyl	12.842	172	2000	0.357	ng	0.00
27) Fluoranthene-d10	19.012	212	1905	0.323	ng	0.00
31) Terphenyl-d14	19.625	244	1269	0.359	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	411	0.280	ng	# 1
3) n-Nitrosodimethylamine	3.415	42	1162	0.347	ng	# 98
6) bis(2-Chloroethyl)ether	7.011	93	840	0.339	ng	98
9) Naphthalene	10.404	128	2636	0.346	ng	99
10) Hexachlorobutadiene	10.692	225	689	0.372	ng	# 100
12) 2-Methylnaphthalene	12.026	142	1469	0.317	ng	98
16) Acenaphthylene	13.945	152	2403	0.368	ng	99
17) Acenaphthene	14.288	154	1450	0.344	ng	98
18) Fluorene	15.282	166	1824	0.337	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	199	0.452	ng	# 82
21) 4-Bromophenyl-phenylether	16.177	248	520	0.354	ng	88
22) Hexachlorobenzene	16.288	284	639	0.375	ng	97
23) Atrazine	16.462	200	174	0.133	ng	# 79
24) Pentachlorophenol	16.636	266	563	0.674	ng	98
25) Phenanthrene	17.008	178	2535	0.354	ng	98
26) Anthracene	17.108	178	2265	0.346	ng	98
28) Fluoranthene	19.040	202	2616	0.312	ng	98
30) Pyrene	19.407	202	2606	0.354	ng	99
32) Benzo(a)anthracene	21.152	228	1822	0.345	ng	97
33) Chrysene	21.206	228	2488	0.378	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	1409	0.358	ng	98
36) Indeno(1,2,3-cd)pyrene	25.540	276	2342	0.455	ng	98
37) Benzo(b)fluoranthene	22.702	252	1986	0.425	ng	95
38) Benzo(k)fluoranthene	22.745	252	2165	0.402	ng	96
39) Benzo(a)pyrene	23.260	252	1765	0.420	ng	93
40) Dibenzo(a,h)anthracene	25.558	278	1744	0.446	ng	94
41) Benzo(g,h,i)perylene	26.210	276	2014	0.422	ng	95

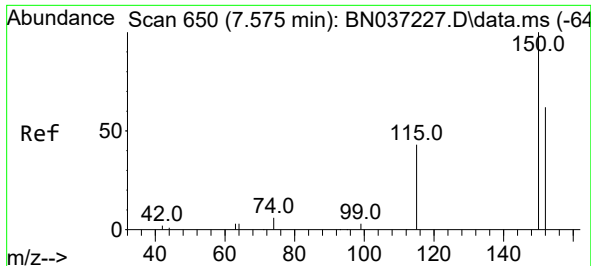
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037281.D
Acq On : 15 Jun 2025 03:18
Operator : RC/JU
Sample : PB168476BSD
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

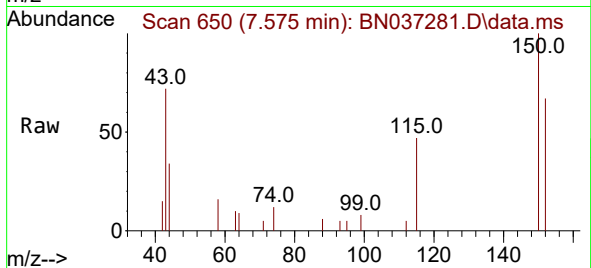
Quant Time: Jun 16 02:47:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



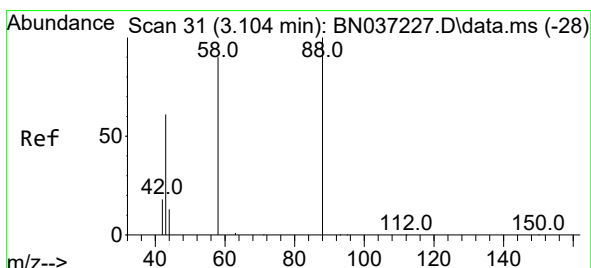
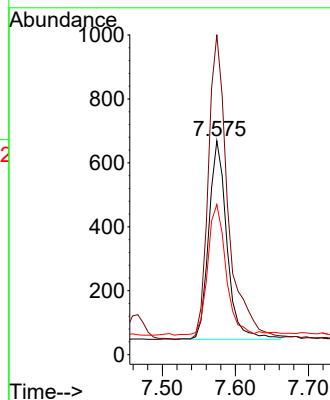
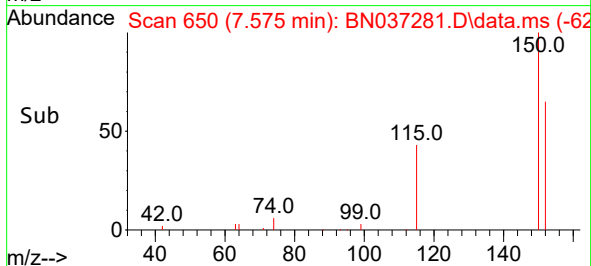


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037281.D
 Acq: 15 Jun 2025 03:18

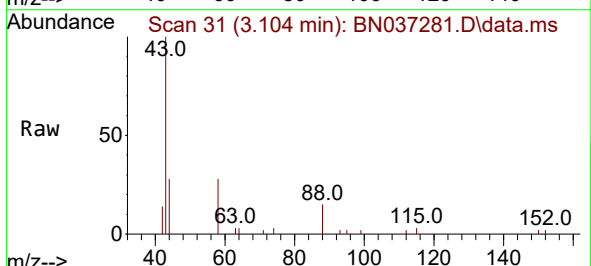
Instrument :
 BNA_N
 ClientSampleId :
 PB168476BSD



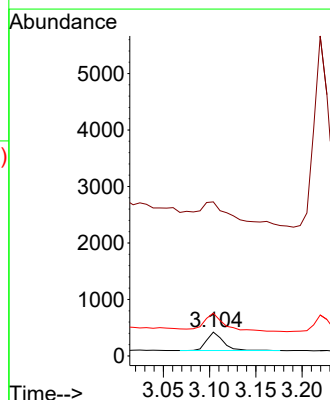
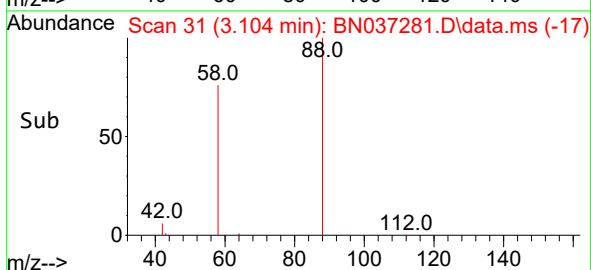
Tgt Ion:152 Resp: 1070
 Ion Ratio Lower Upper
 152 100
 150 149.6 125.2 187.8
 115 70.3 58.4 87.6

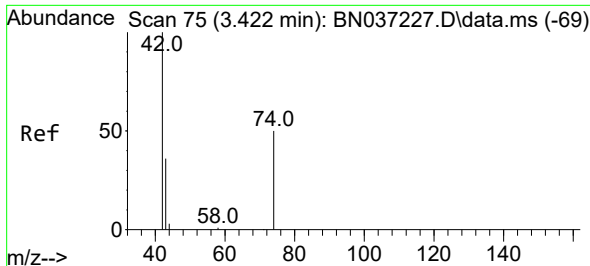


#2
 1,4-Dioxane
 Concen: 0.280 ng
 RT: 3.104 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037281.D
 Acq: 15 Jun 2025 03:18



Tgt Ion: 88 Resp: 411
 Ion Ratio Lower Upper
 88 100
 43 228.7 52.6 79.0#
 58 118.2 73.5 110.3#

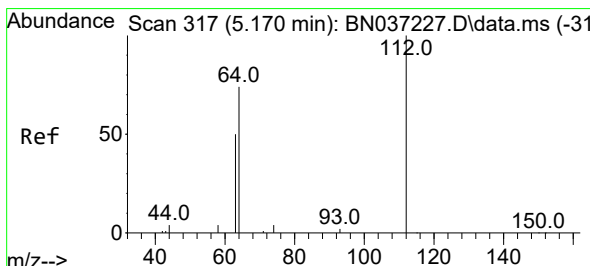
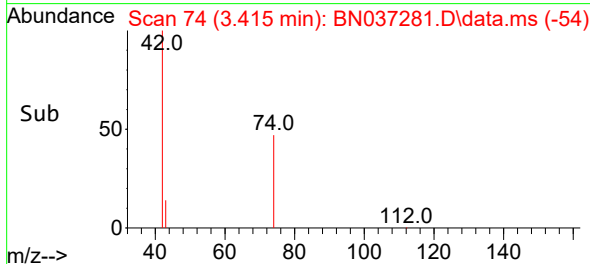
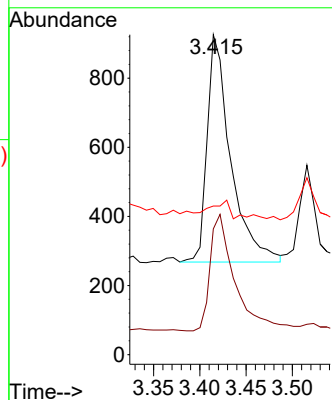
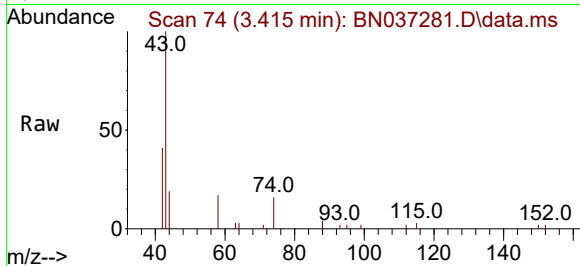




#3
n-Nitrosodimethylamine
Concen: 0.347 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

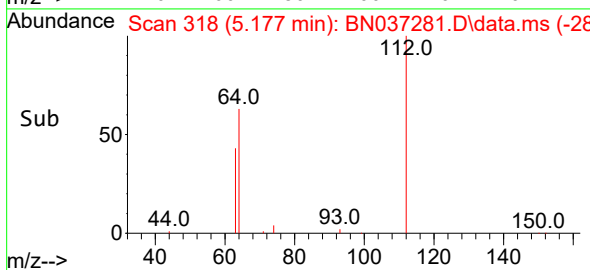
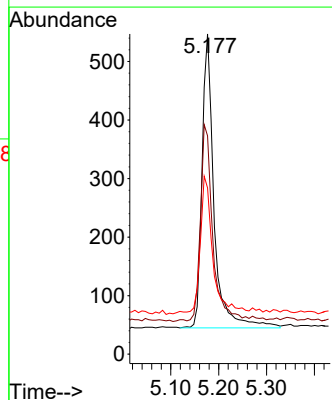
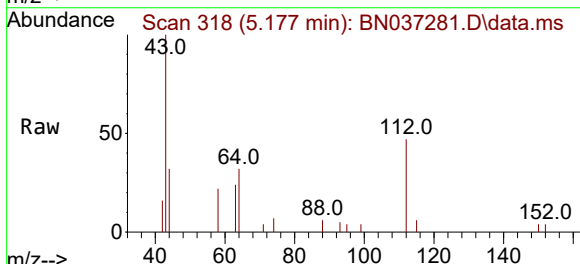
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

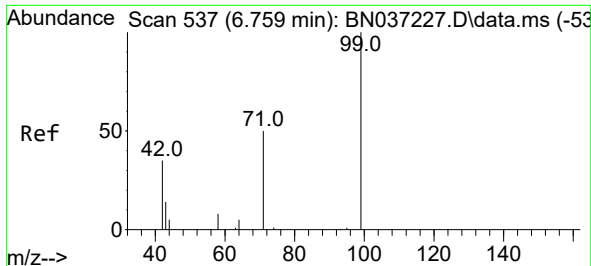
Tgt Ion: 42 Resp: 1162
Ion Ratio Lower Upper
42 100
74 54.3 44.6 66.8
44 5.7 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.334 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion: 112 Resp: 878
Ion Ratio Lower Upper
112 100
64 68.8 57.2 85.8
63 49.0 39.8 59.6

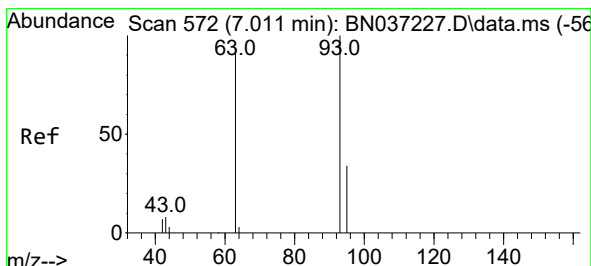
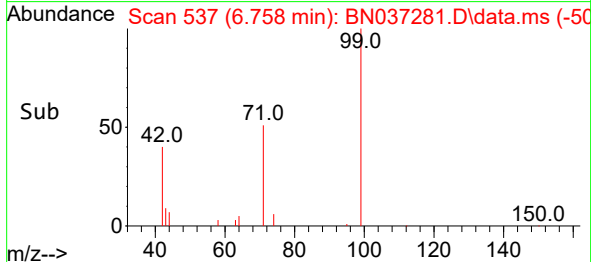
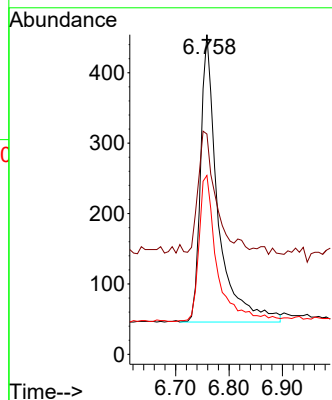
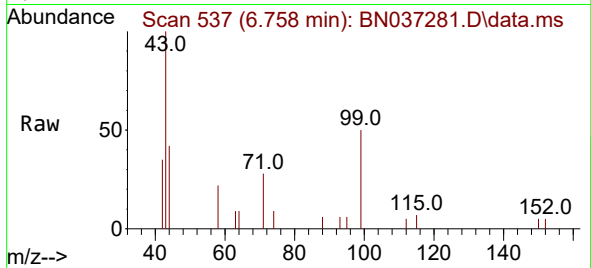




#5
Phenol-d6
Concen: 0.333 ng
RT: 6.758 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

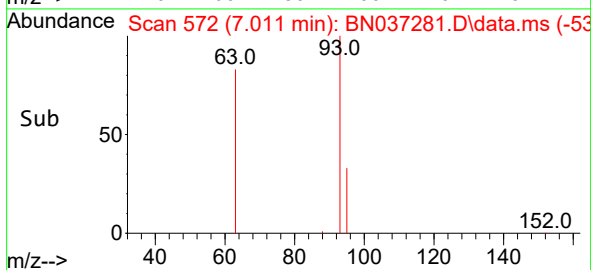
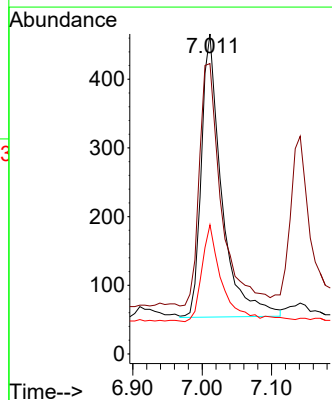
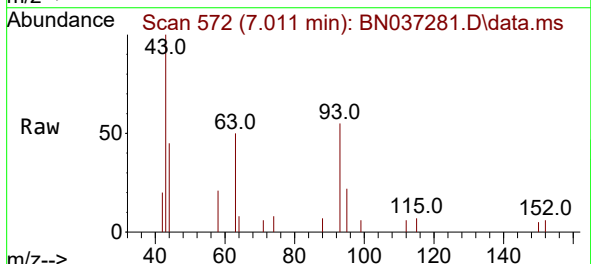
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

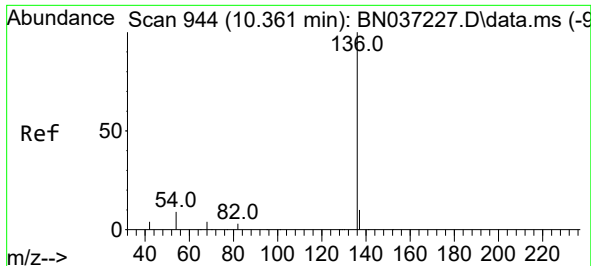
Tgt Ion: 99 Resp: 923
Ion Ratio Lower Upper
99 100
42 40.3 36.2 54.4
71 53.3 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.339 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion: 93 Resp: 840
Ion Ratio Lower Upper
93 100
63 92.6 75.2 112.8
95 33.0 28.3 42.5

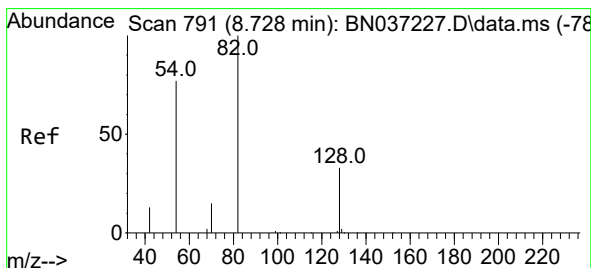
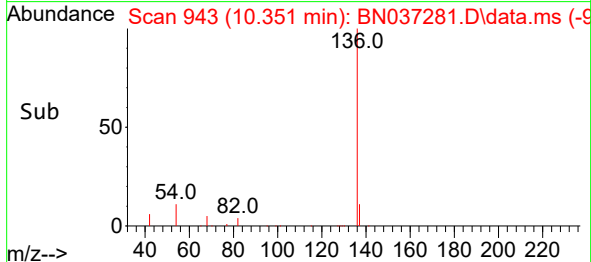
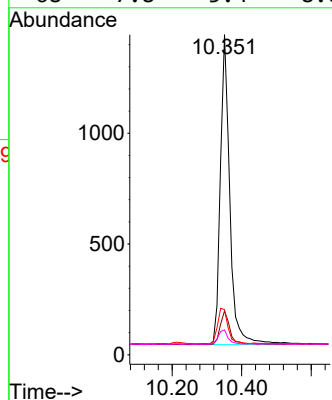
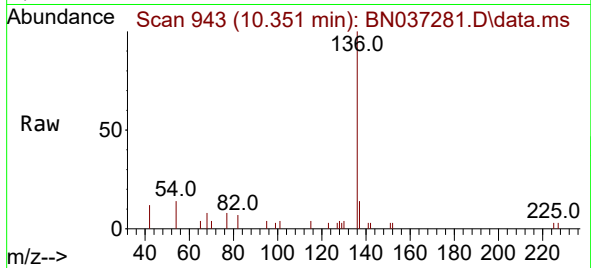




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

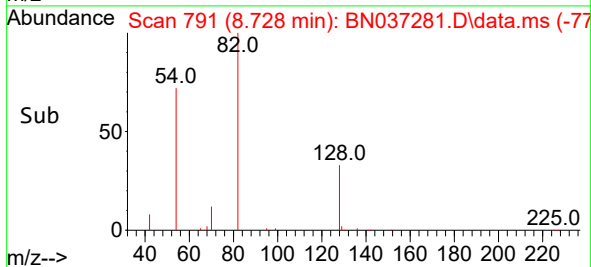
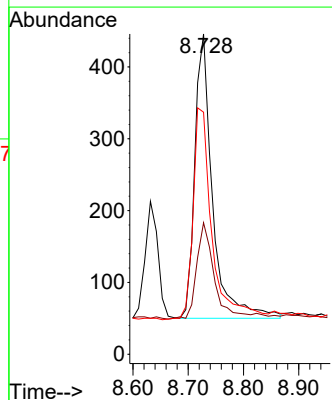
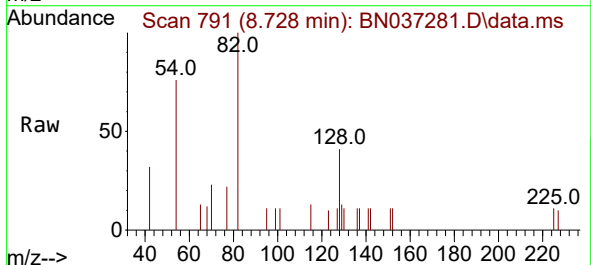
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

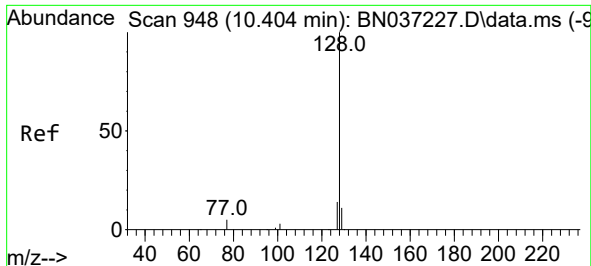
Tgt Ion:	136	Resp:	2630
Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.6	15.8
54	14.0	9.2	13.8#
68	7.8	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:	82	Resp:	885
Ion	Ratio	Lower	Upper
82	100		
128	41.0	31.2	46.8
54	75.6	63.3	94.9

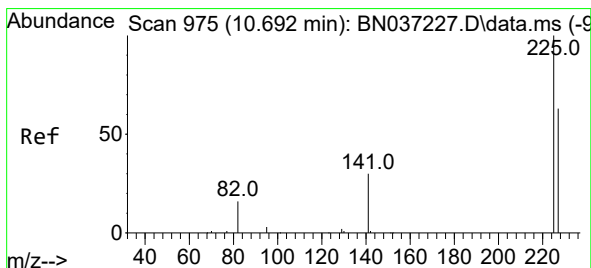
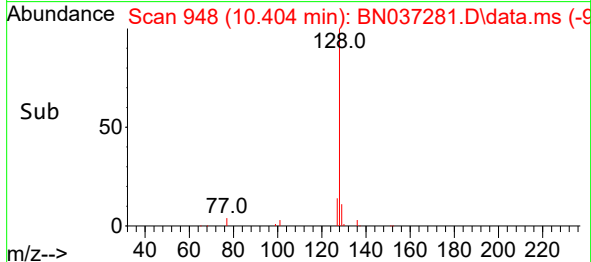
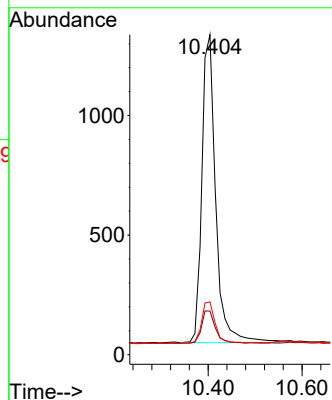
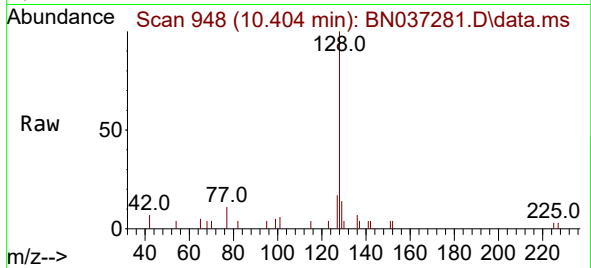




#9
Naphthalene
Concen: 0.346 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

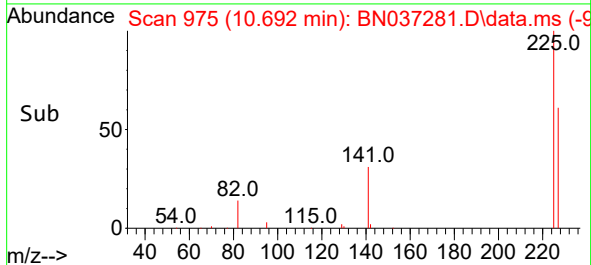
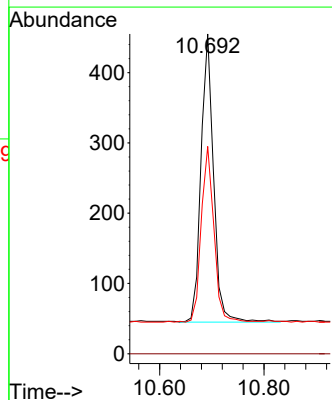
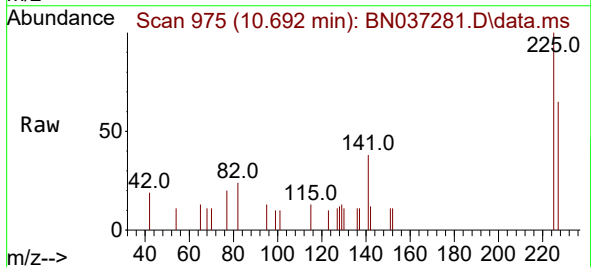
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

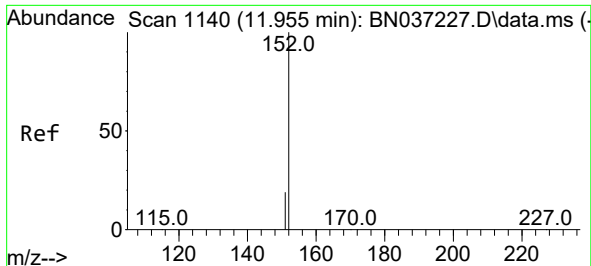
Tgt Ion:128 Resp: 2636
Ion Ratio Lower Upper
128 100
129 13.7 10.7 16.1
127 16.5 12.6 19.0



#10
Hexachlorobutadiene
Concen: 0.372 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:225 Resp: 689
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.4 49.2 73.8





#11

2-Methylnaphthalene-d10

Concen: 0.617 ng

RT: 11.950 min Scan# 1139

Delta R.T. -0.005 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

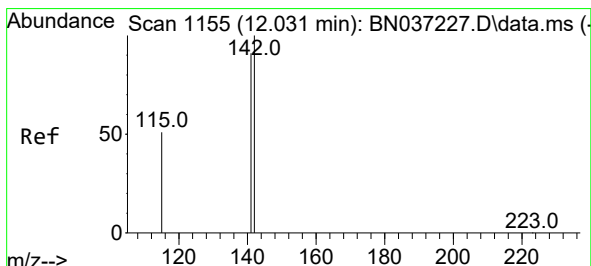
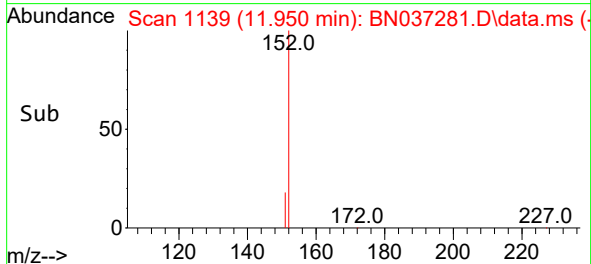
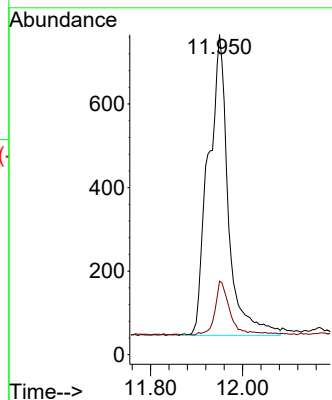
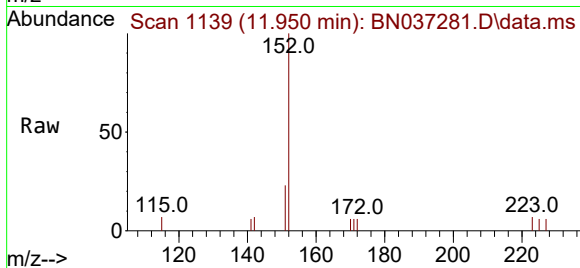
PB168476BSD

Tgt Ion:152 Resp: 2179

Ion Ratio Lower Upper

152 100

151 13.2 17.9 26.9#



#12

2-Methylnaphthalene

Concen: 0.317 ng

RT: 12.026 min Scan# 1154

Delta R.T. -0.005 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

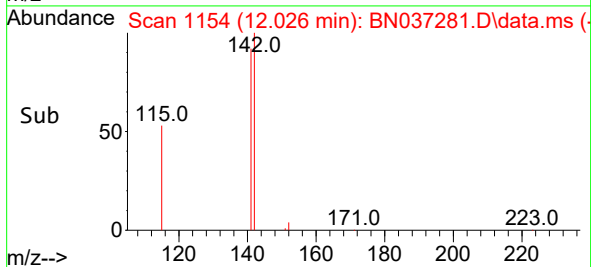
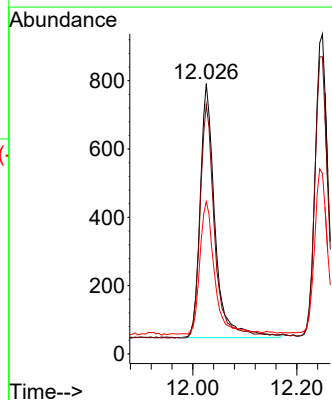
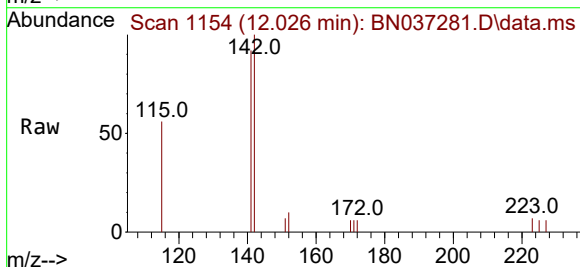
Tgt Ion:142 Resp: 1469

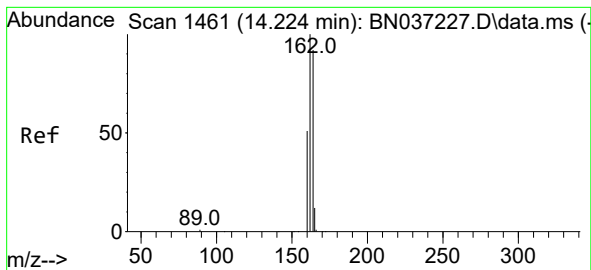
Ion Ratio Lower Upper

142 100

141 92.2 73.0 109.6

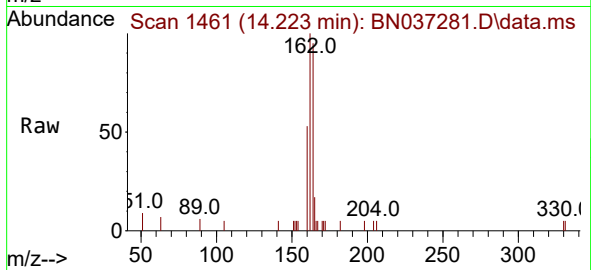
115 56.3 43.3 64.9



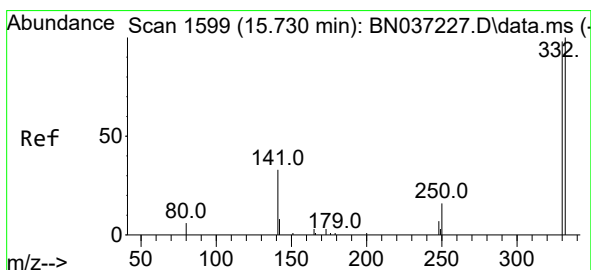
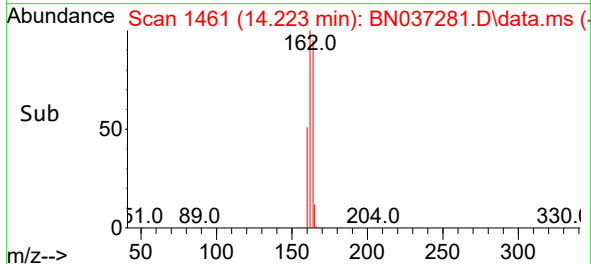
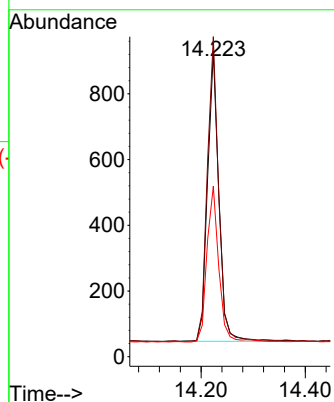


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.223 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

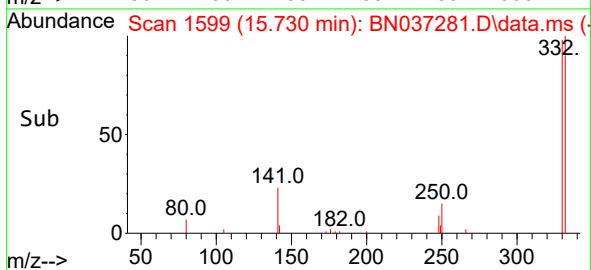
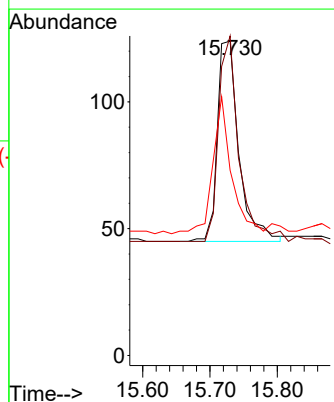
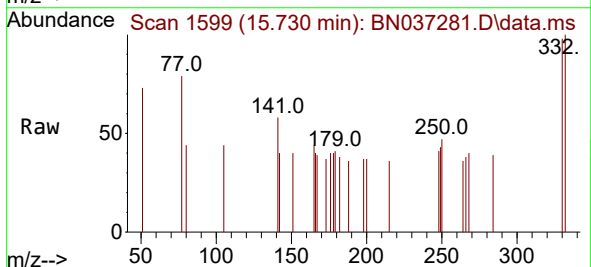


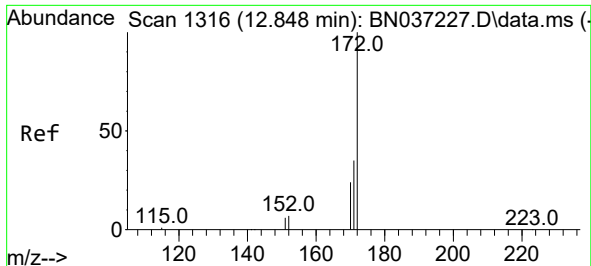
Tgt Ion:164 Resp: 1332
Ion Ratio Lower Upper
164 100
162 104.7 86.7 130.1
160 55.8 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.316 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:330 Resp: 175
Ion Ratio Lower Upper
330 100
332 98.9 74.9 112.3
141 59.4 45.1 67.7

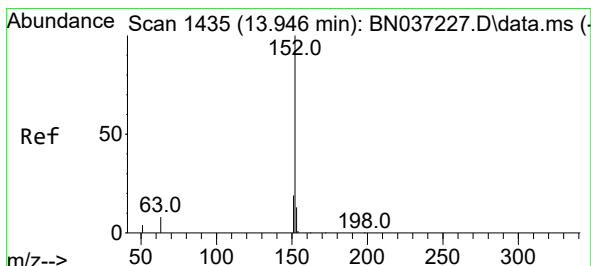
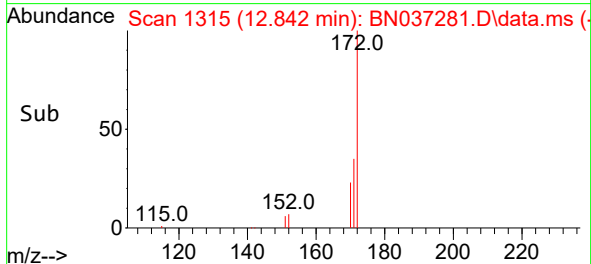
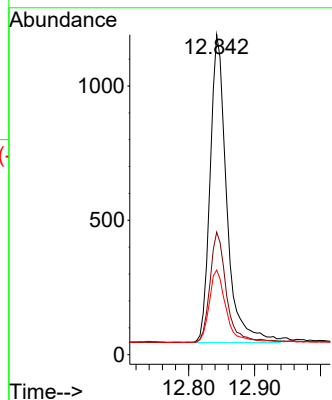
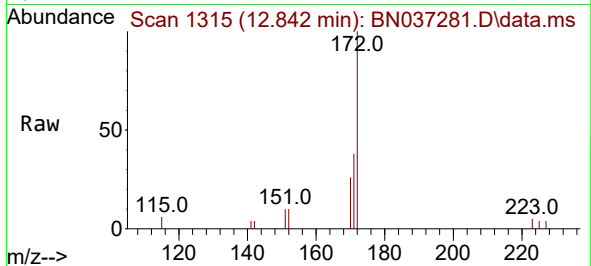




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.842 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

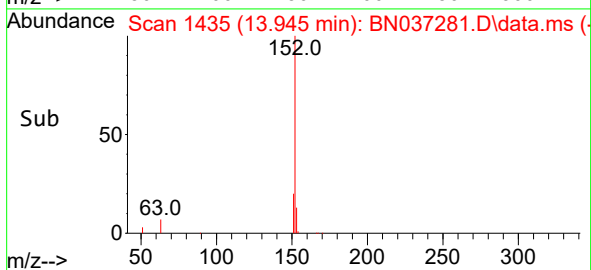
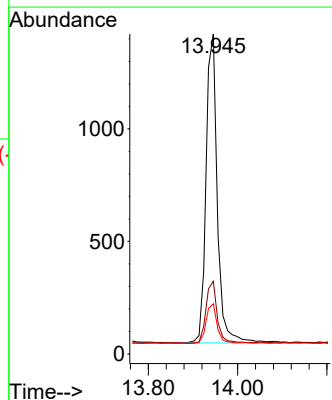
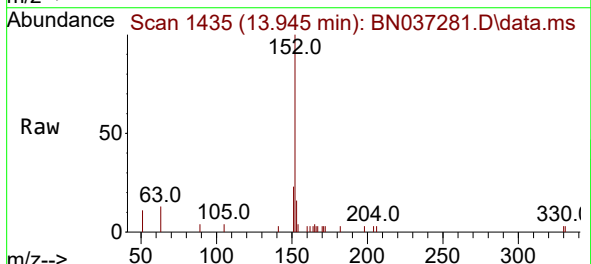
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

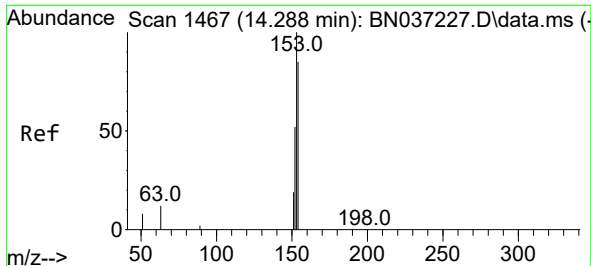
Tgt Ion:172	Resp:	2000
Ion Ratio	Lower	Upper
172	100	
171	38.3	29.8 44.8
170	26.4	21.1 31.7



#16
Acenaphthylene
Concen: 0.368 ng
RT: 13.945 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:152	Resp:	2403
Ion Ratio	Lower	Upper
152	100	
151	19.8	15.7 23.5
153	13.0	10.7 16.1

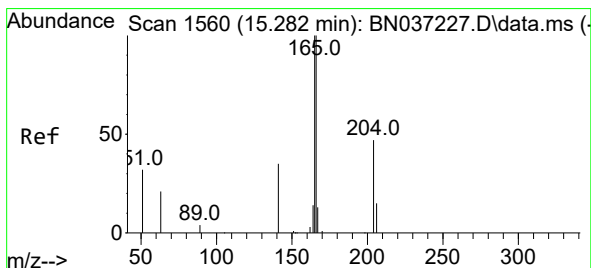
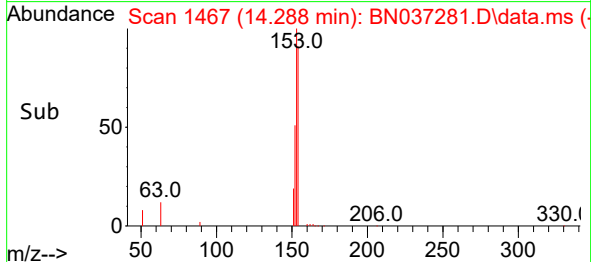
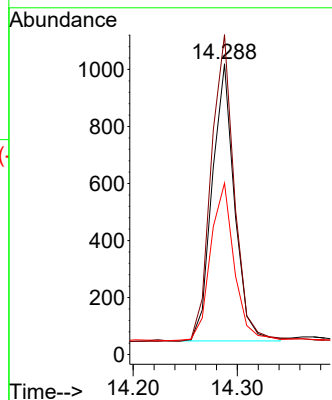
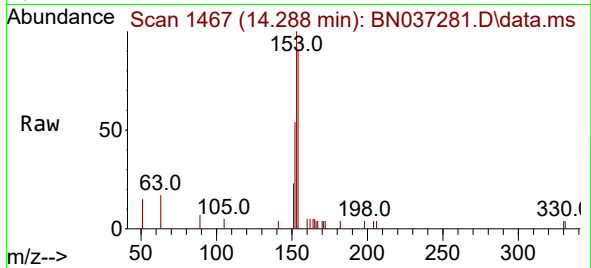




#17
Acenaphthene
Concen: 0.344 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

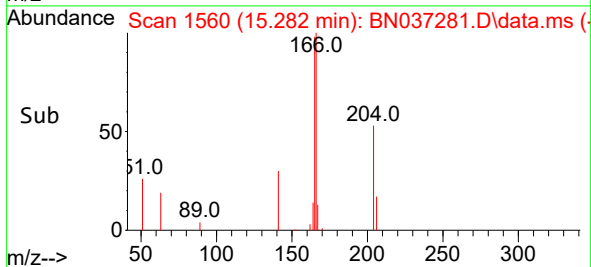
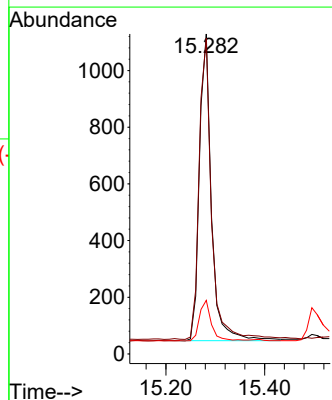
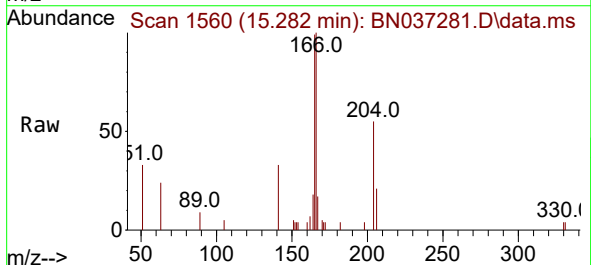
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

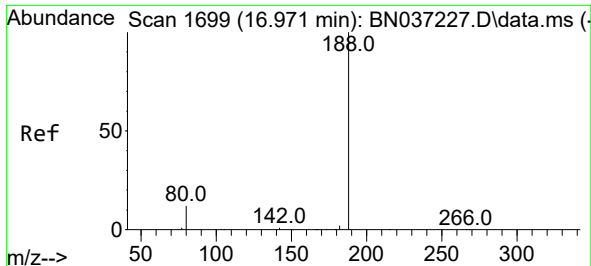
Tgt Ion:154 Resp: 1450
Ion Ratio Lower Upper
154 100
153 116.8 94.6 141.8
152 60.1 49.6 74.4



#18
Fluorene
Concen: 0.337 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:166 Resp: 1824
Ion Ratio Lower Upper
166 100
165 101.3 79.8 119.6
167 13.2 10.8 16.2

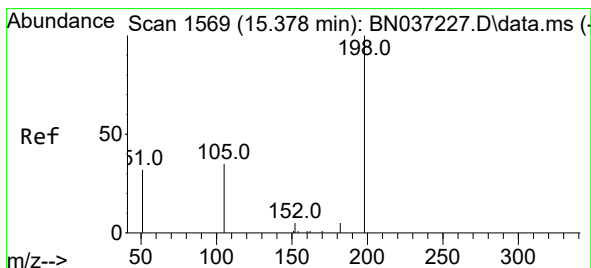
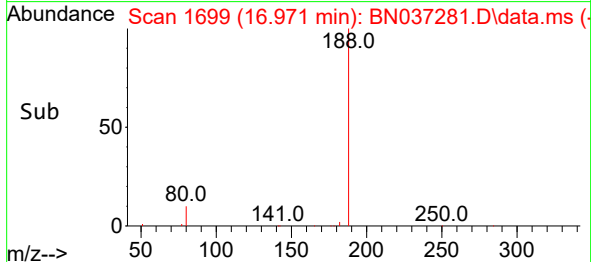
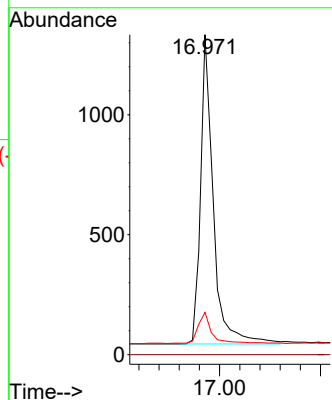
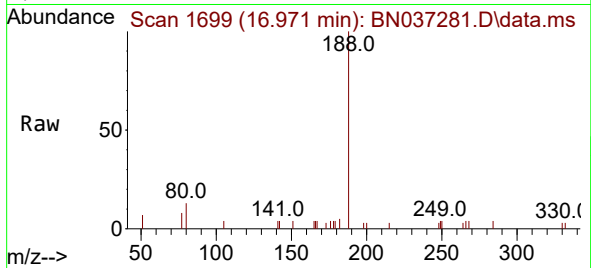




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

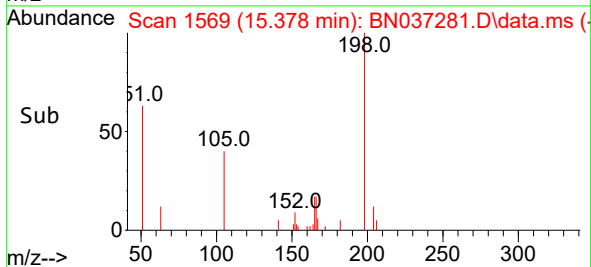
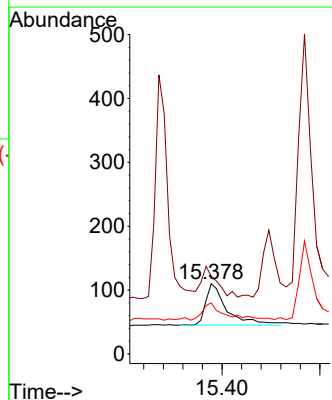
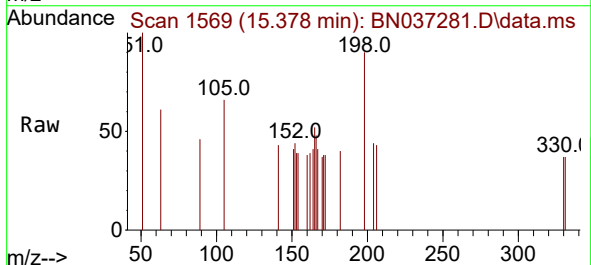
Instrument :
BNA_N
ClientSampleId :
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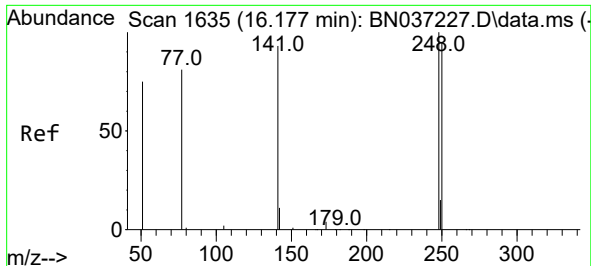
Tgt Ion:188 Resp: 2256
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.3 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.452 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:198 Resp: 199
Ion Ratio Lower Upper
198 100
51 110.9 111.2 166.8#
105 72.7 54.0 81.0

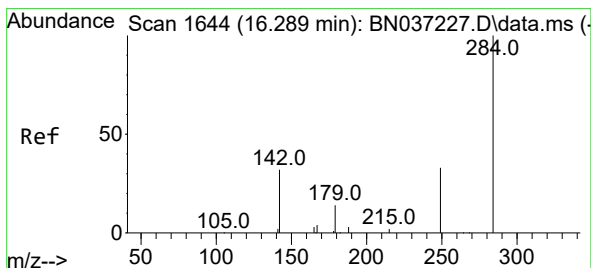
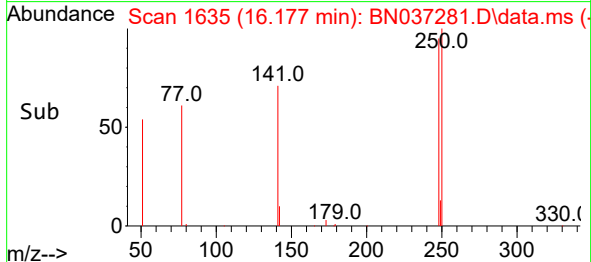
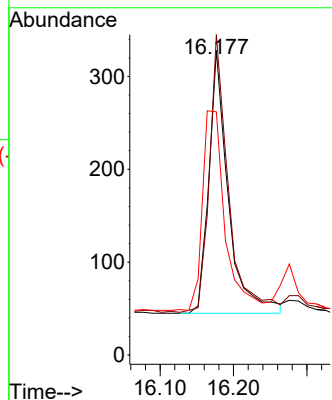
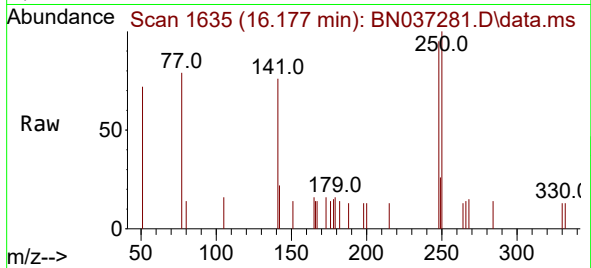




#21
4-Bromophenyl-phenylether
Concen: 0.354 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

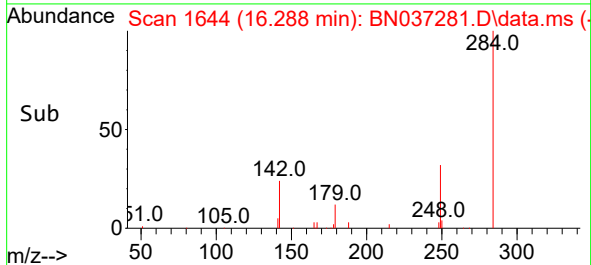
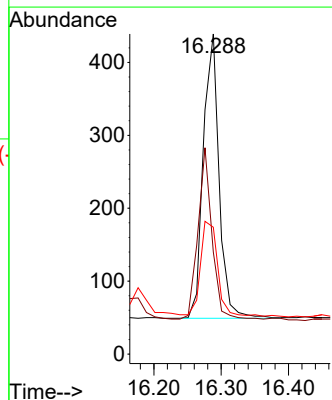
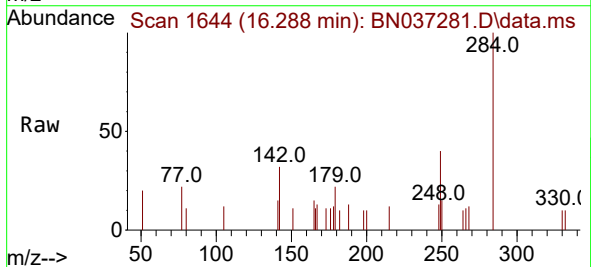
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

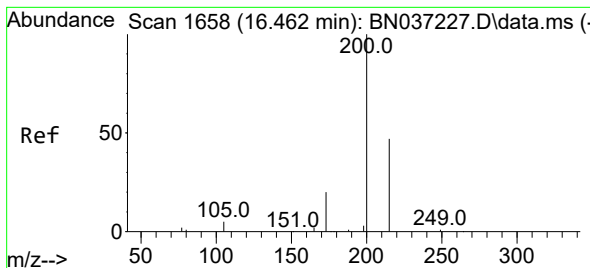
Tgt Ion:248 Resp: 520
Ion Ratio Lower Upper
248 100
250 105.2 76.8 115.2
141 79.9 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.288 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:284 Resp: 639
Ion Ratio Lower Upper
284 100
142 53.4 43.8 65.6
249 38.3 28.4 42.6





#23

Atrazine

Concen: 0.133 ng

RT: 16.462 min Scan# 1658

Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

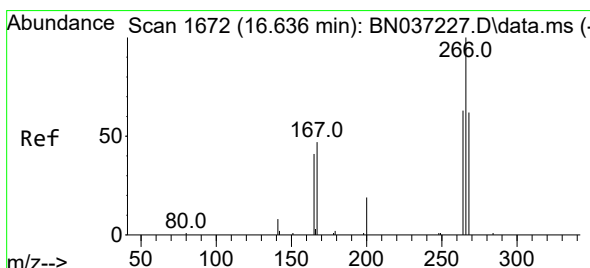
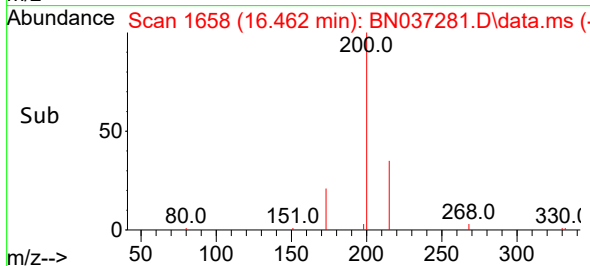
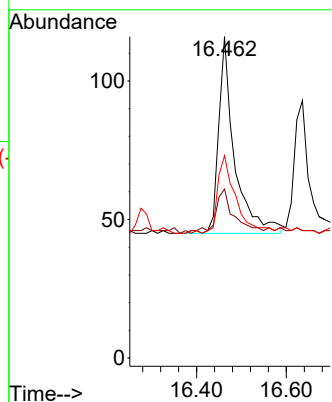
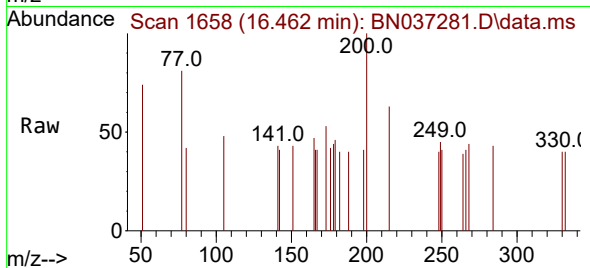
Instrument :

BNA_N

ClientSampleId :

PB168476BSD

Tgt Ion:	200	Resp:	174
Ion Ratio	Lower	Upper	
200	100		
173	52.6	25.1	37.7#
215	62.9	43.7	65.5



#24

Pentachlorophenol

Concen: 0.674 ng

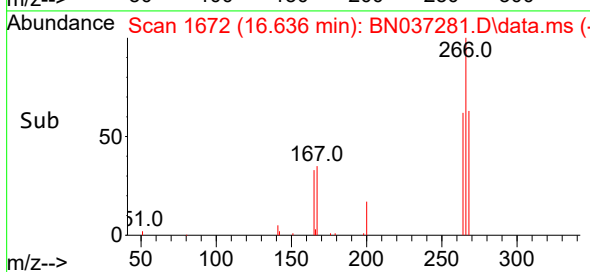
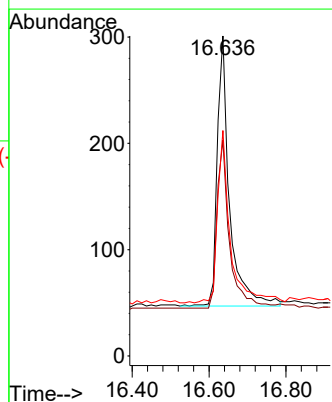
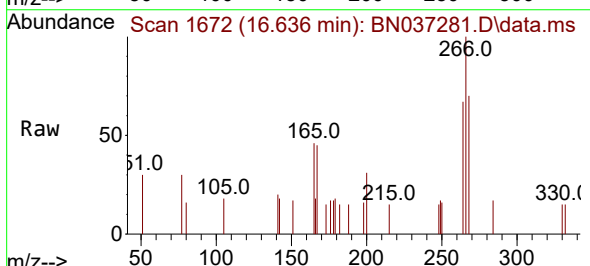
RT: 16.636 min Scan# 1672

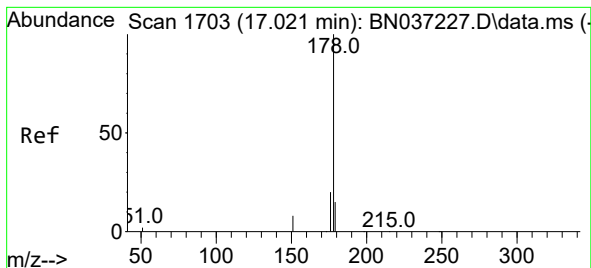
Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Tgt Ion:	266	Resp:	563
Ion Ratio	Lower	Upper	
266	100		
264	63.2	49.2	73.8
268	65.7	53.4	80.2

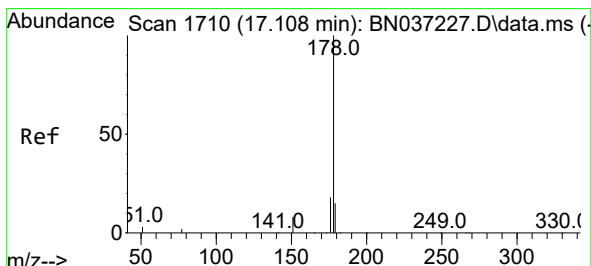
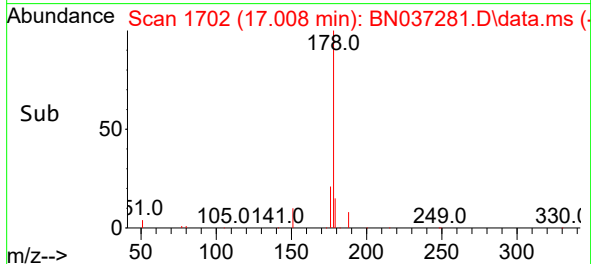
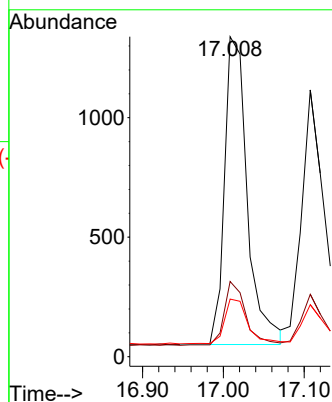
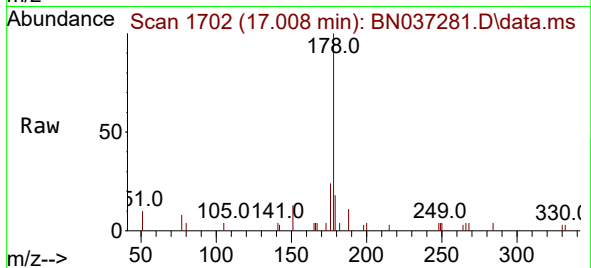




#25
Phenanthrene
Concen: 0.354 ng
RT: 17.008 min Scan# 1710
Delta R.T. -0.013 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

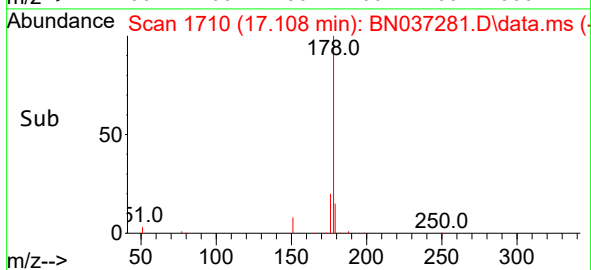
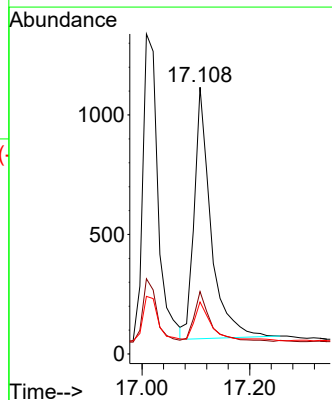
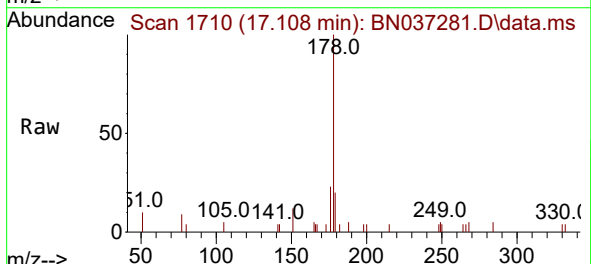
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

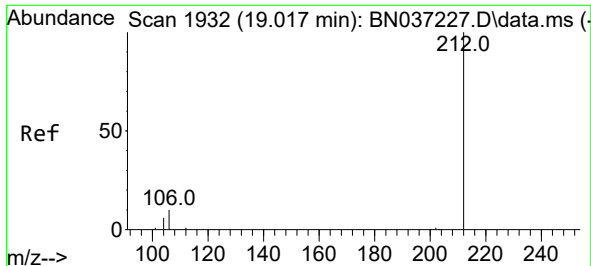
Tgt Ion:178 Resp: 2535
Ion Ratio Lower Upper
178 100
176 19.5 16.3 24.5
179 14.5 12.6 18.8



#26
Anthracene
Concen: 0.346 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:178 Resp: 2265
Ion Ratio Lower Upper
178 100
176 20.0 15.1 22.7
179 16.3 12.4 18.6

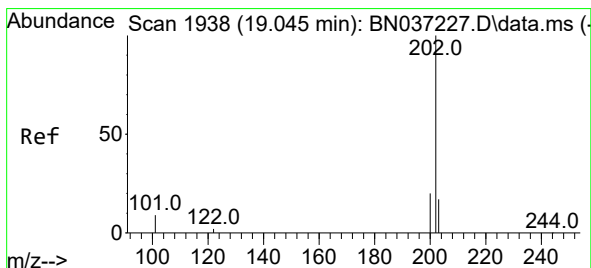
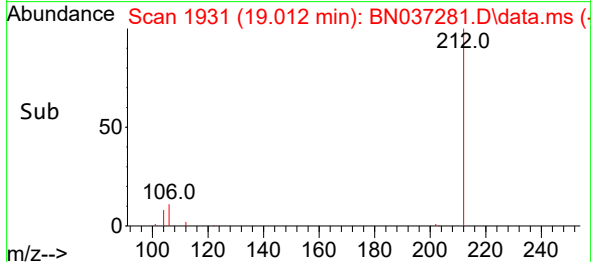
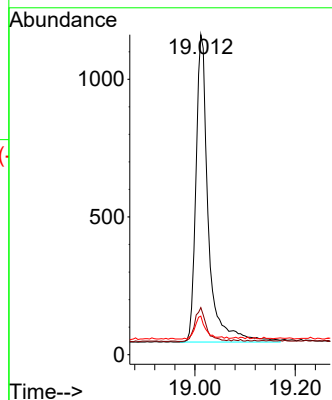
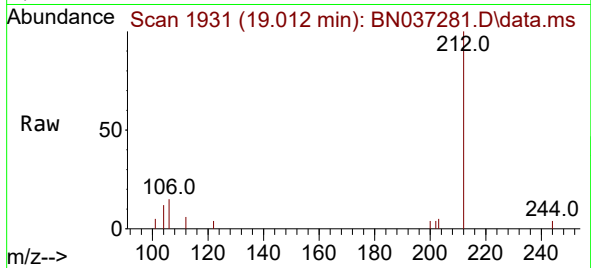




#27
Fluoranthene-d10
Concen: 0.323 ng
RT: 19.012 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

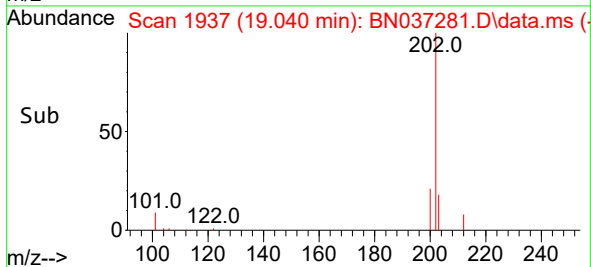
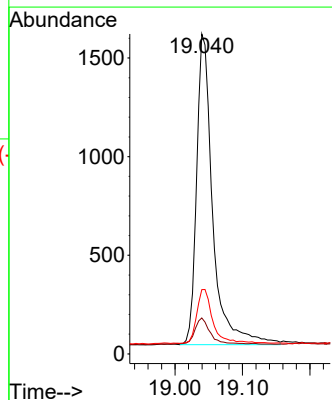
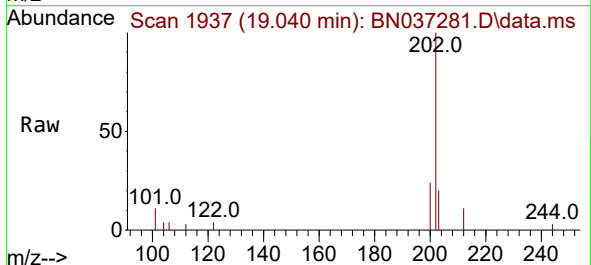
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

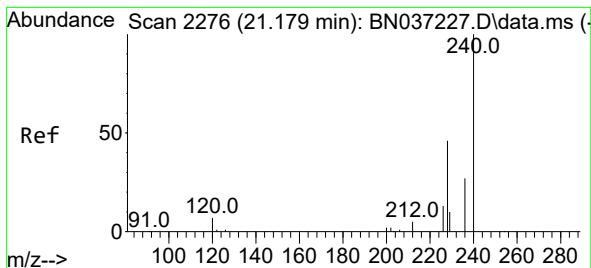
Tgt Ion:212 Resp: 1905
Ion Ratio Lower Upper
212 100
106 10.3 9.3 13.9
104 6.3 5.7 8.5



#28
Fluoranthene
Concen: 0.312 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.005 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:202 Resp: 2616
Ion Ratio Lower Upper
202 100
101 8.7 7.1 10.7
203 17.4 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.170 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

PB168476BSD

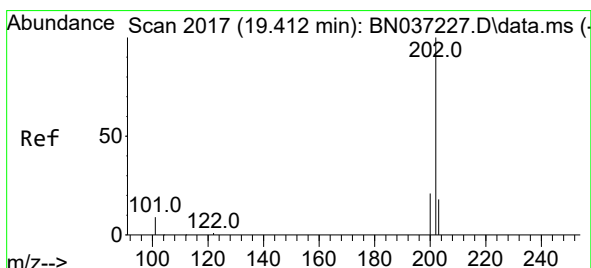
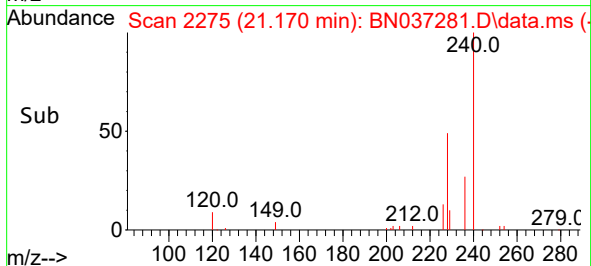
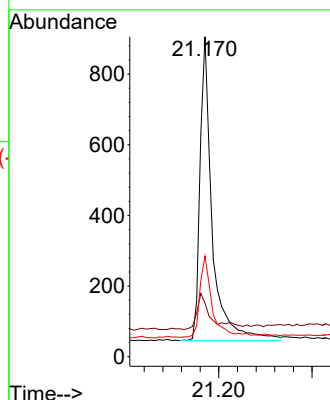
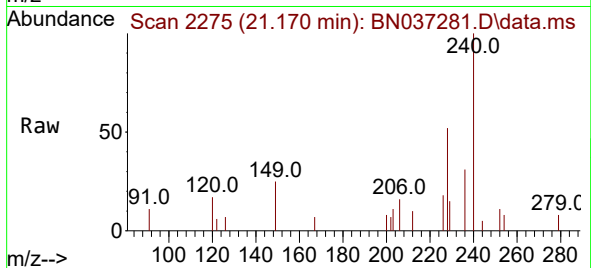
Tgt Ion:240 Resp: 1565

Ion Ratio Lower Upper

240 100

120 16.8 11.3 16.9

236 31.5 24.4 36.6



#30

Pyrene

Concen: 0.354 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

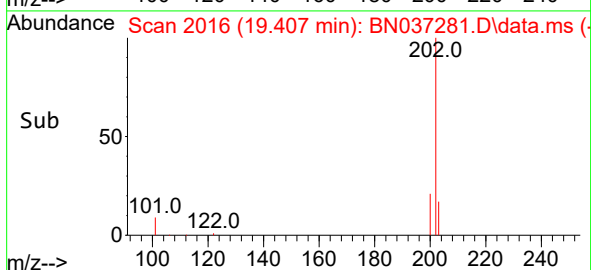
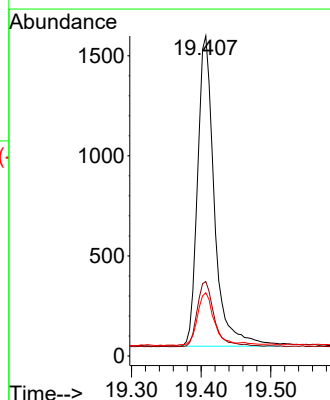
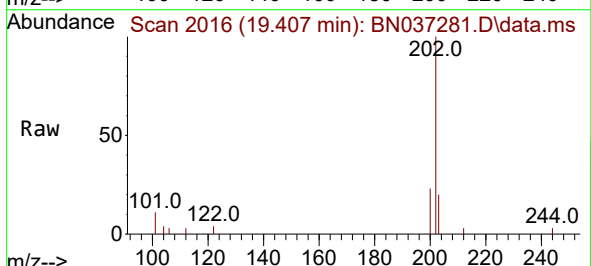
Tgt Ion:202 Resp: 2606

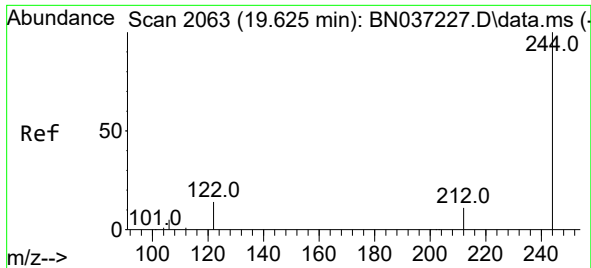
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

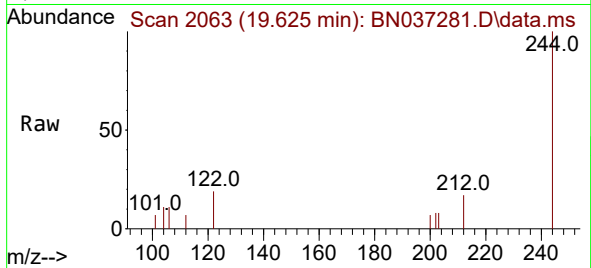
203 17.1 14.3 21.5



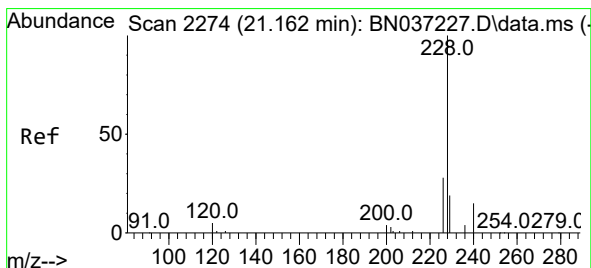
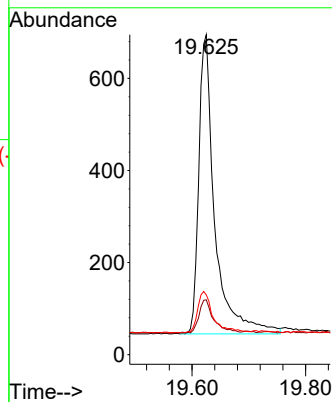
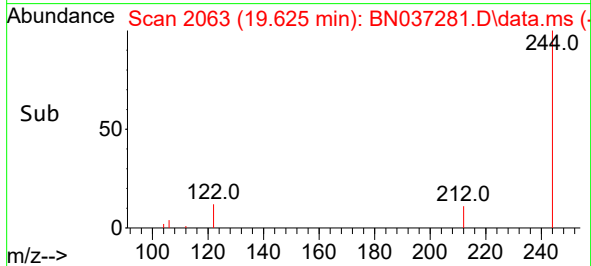


#31
 Terphenyl-d14
 Concen: 0.359 ng
 RT: 19.625 min Scan# 2063
 Delta R.T. -0.000 min
 Lab File: BN037281.D
 Acq: 15 Jun 2025 03:18

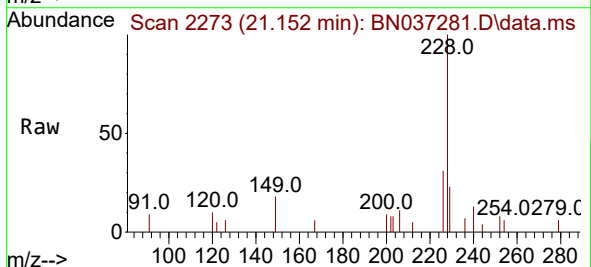
Instrument :
 BNA_N
 ClientSampleId :
 PB168476BSD



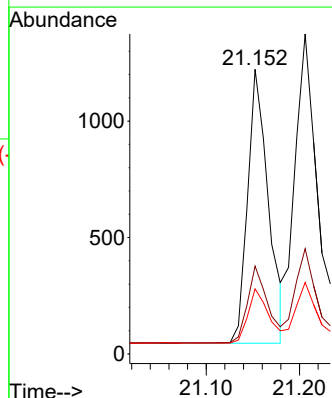
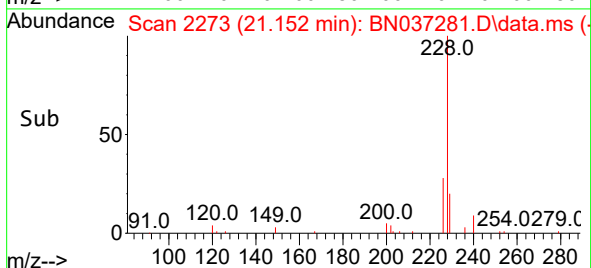
Tgt Ion:244 Resp: 1269
 Ion Ratio Lower Upper
 244 100
 212 17.1 12.2 18.2
 122 18.7 14.3 21.5

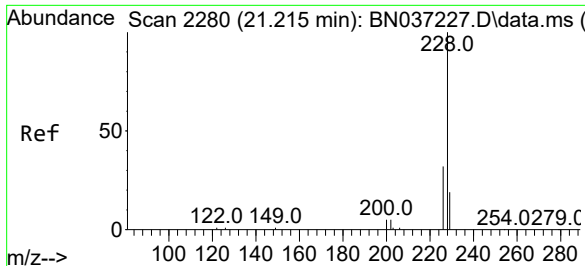


#32
 Benzo(a)anthracene
 Concen: 0.345 ng
 RT: 21.152 min Scan# 2273
 Delta R.T. -0.009 min
 Lab File: BN037281.D
 Acq: 15 Jun 2025 03:18



Tgt Ion:228 Resp: 1822
 Ion Ratio Lower Upper
 228 100
 226 30.9 23.8 35.8
 229 22.9 17.0 25.4

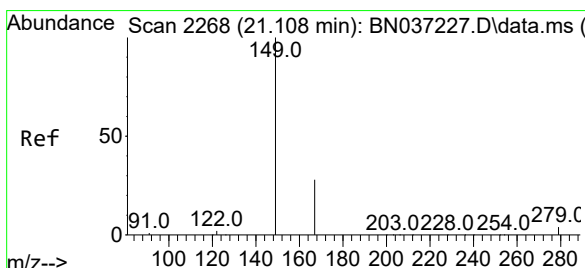
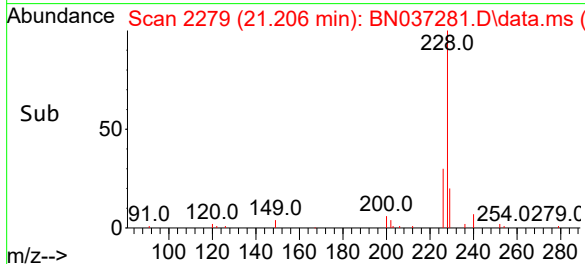
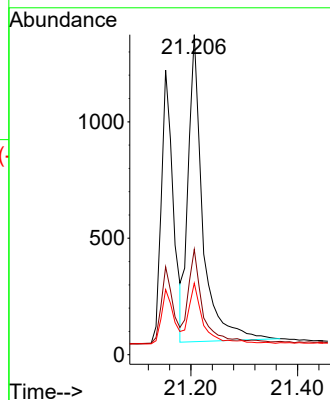
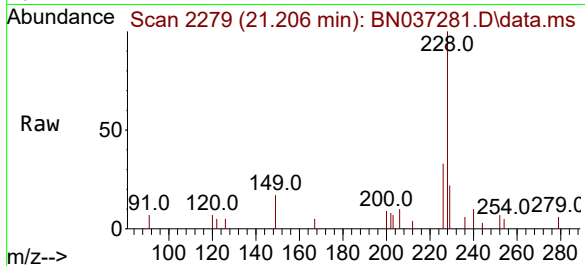




#33
Chrysene
Concen: 0.378 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

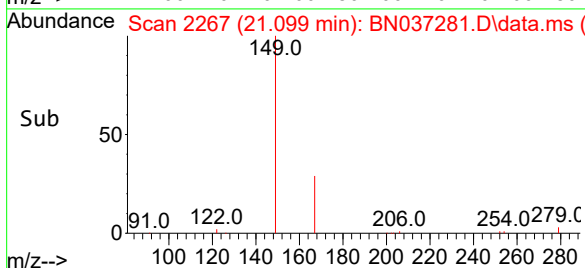
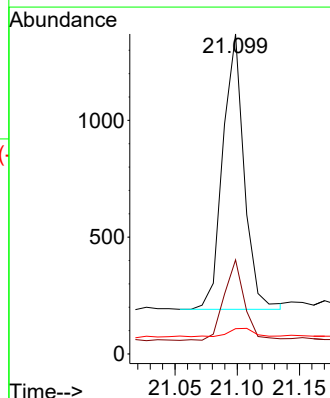
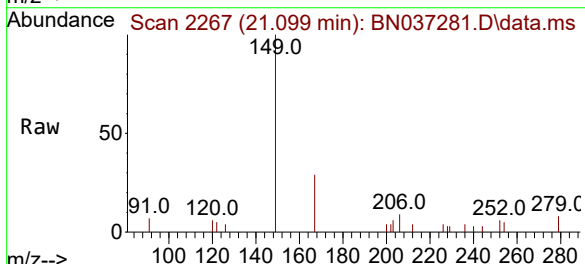
Instrument :
BNA_N
ClientSampleId :
PB168476BSD

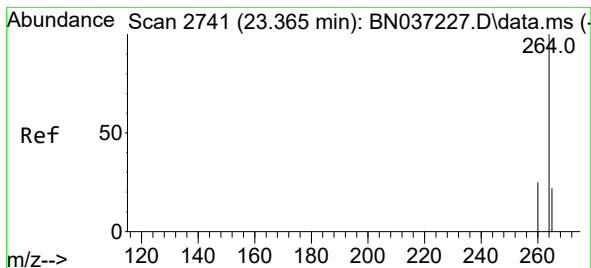
Tgt Ion:228 Resp: 2488
Ion Ratio Lower Upper
228 100
226 32.9 25.8 38.6
229 22.3 17.0 25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.358 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:149 Resp: 1409
Ion Ratio Lower Upper
149 100
167 28.0 21.3 31.9
279 3.7 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037281.D

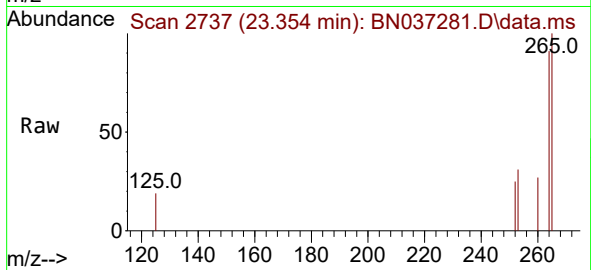
Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

PB168476BSD



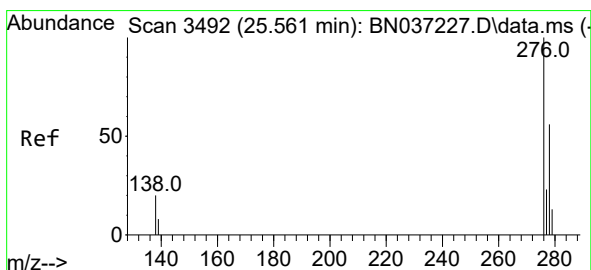
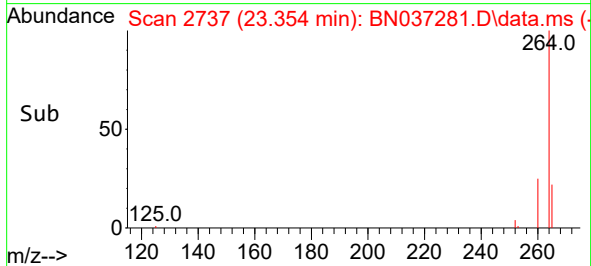
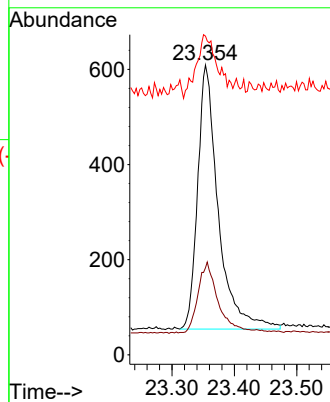
Tgt Ion:264 Resp: 1276

Ion Ratio Lower Upper

264 100

260 30.0 22.8 34.2

265 110.0 66.4 99.6#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.455 ng

RT: 25.540 min Scan# 3485

Delta R.T. -0.021 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

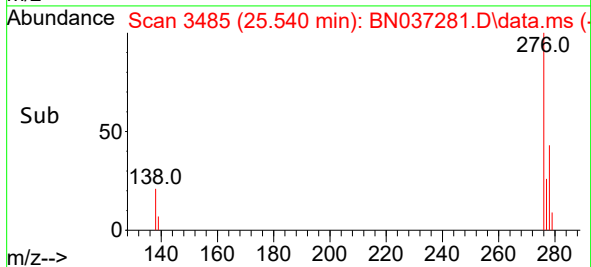
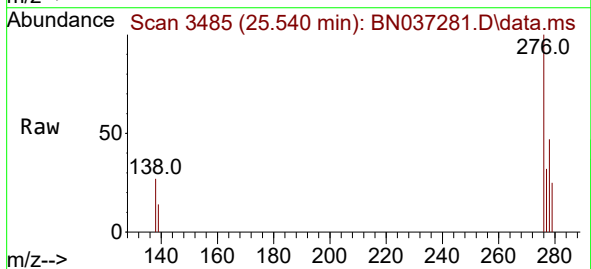
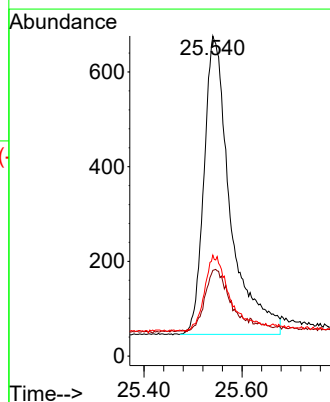
Tgt Ion:276 Resp: 2342

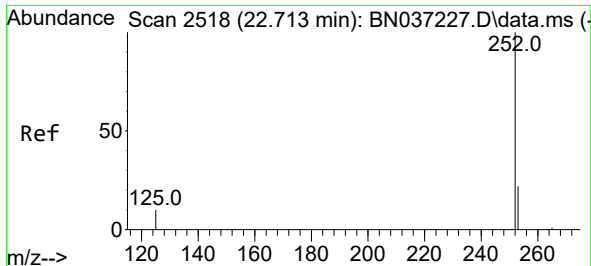
Ion Ratio Lower Upper

276 100

138 19.6 16.8 25.2

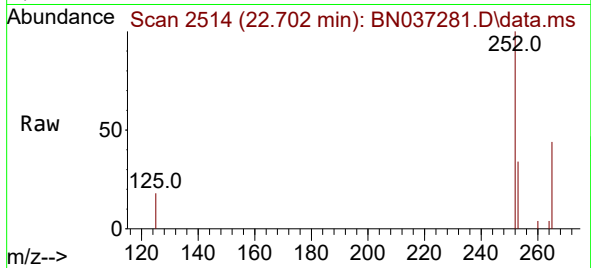
277 24.8 19.5 29.3



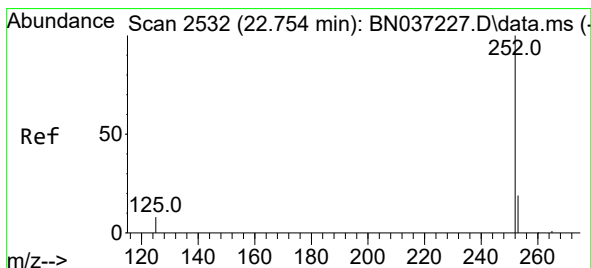
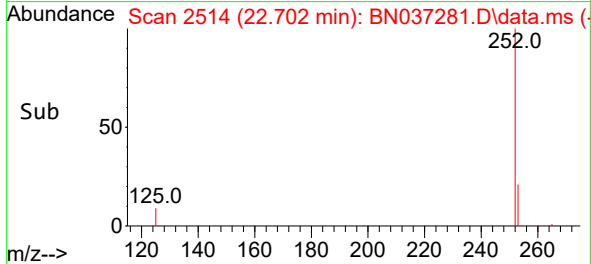
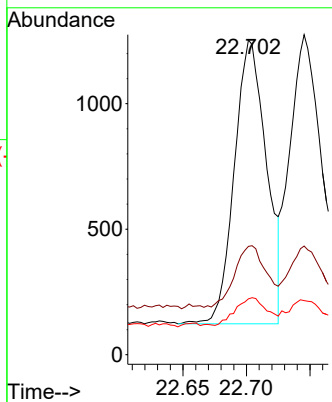


#37
Benzo(b)fluoranthene
Concen: 0.425 ng
RT: 22.702 min Scan# 2514
Delta R.T. -0.012 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD

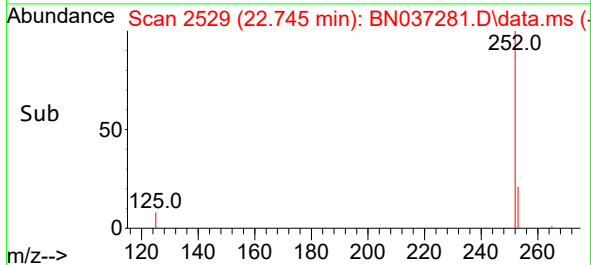
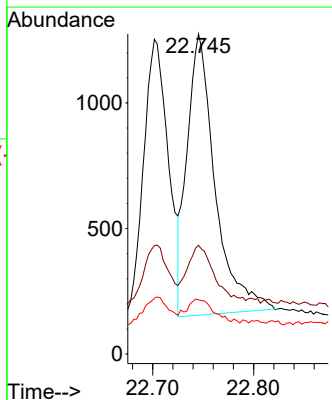
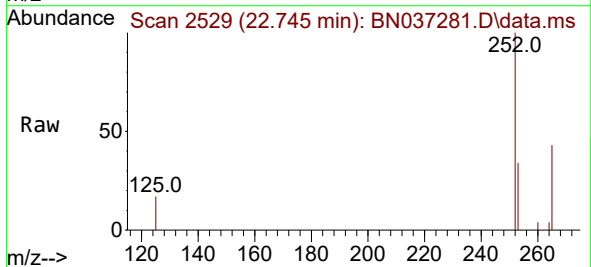


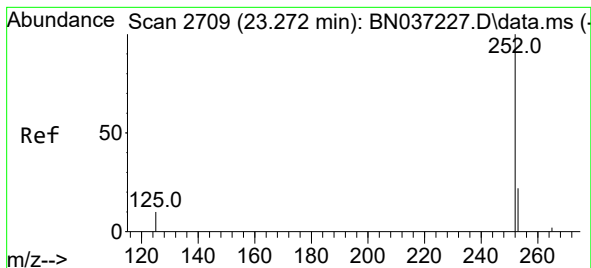
Tgt Ion:252 Resp: 1986
Ion Ratio Lower Upper
252 100
253 34.4 24.9 37.3
125 17.8 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 22.745 min Scan# 2529
Delta R.T. -0.009 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Tgt Ion:252 Resp: 2165
Ion Ratio Lower Upper
252 100
253 34.0 24.6 37.0
125 16.9 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037281.D

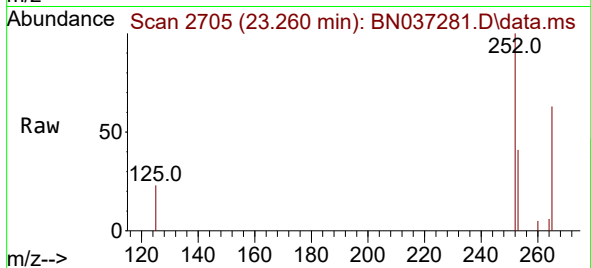
Acq: 15 Jun 2025 03:18

Instrument :

BNA_N

ClientSampleId :

PB168476BSD



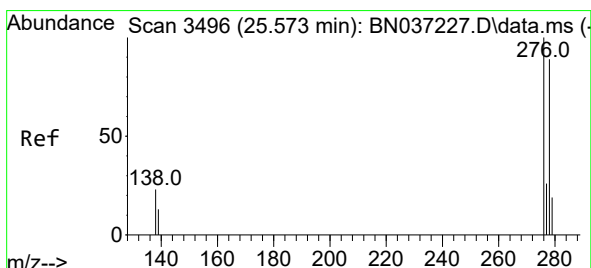
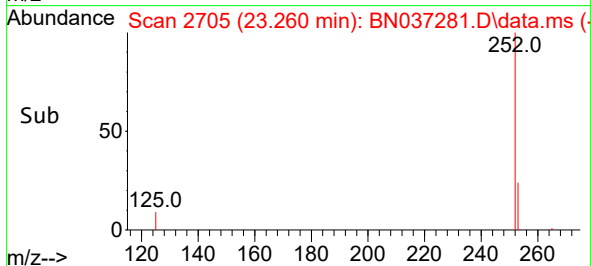
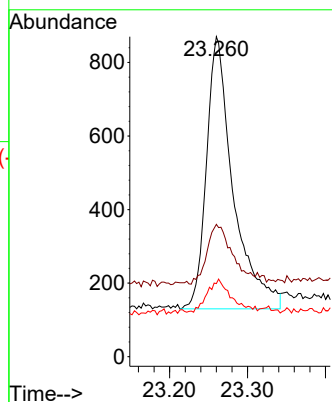
Tgt Ion:252 Resp: 1765

Ion	Ratio	Lower	Upper
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252	100		
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253	41.4	29.4	44.2
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125	22.9	16.2	24.2
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#40

Dibenzo(a,h)anthracene

Concen: 0.446 ng

RT: 25.558 min Scan# 3491

Delta R.T. -0.015 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

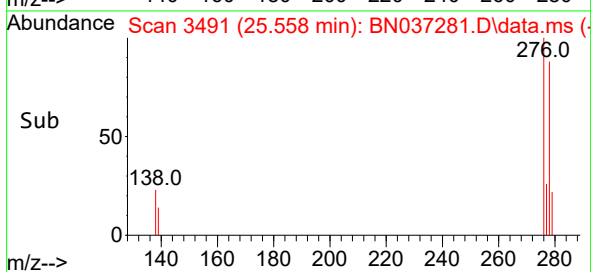
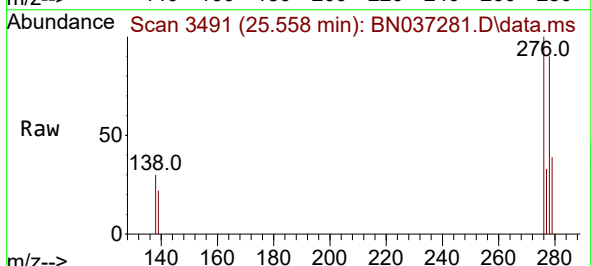
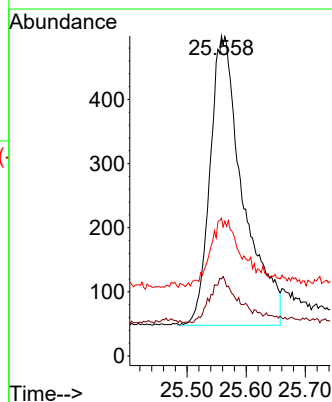
Tgt Ion:278 Resp: 1744

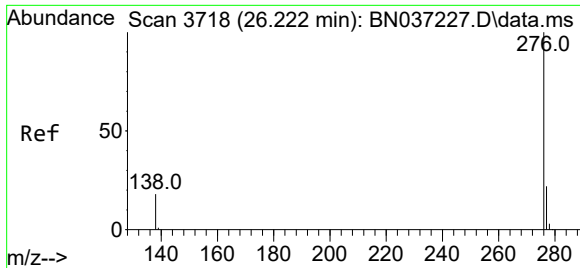
Ion	Ratio	Lower	Upper
-----	-------	-------	-------

278	100		
-----	-----	--	--

139	24.0	17.8	26.6
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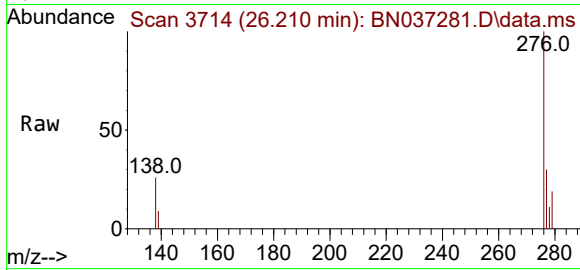
279	43.1	31.3	46.9
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#41
Benzo(g,h,i)perylene
Concen: 0.422 ng
RT: 26.210 min Scan# 31
Delta R.T. -0.012 min
Lab File: BN037281.D
Acq: 15 Jun 2025 03:18

Instrument :
BNA_N
ClientSampleId :
PB168476BSD



Tgt Ion:	276	Resp:	2014
Ion	Ratio	Lower	Upper
276	100		
277	30.2	22.0	33.0
138	25.6	18.4	27.6

