

**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 : Q2439
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2439

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2439-01
Q2439-02

Client Sample Number

RW8-SP100-20250626
RW8-SP303-20250626

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 4:15 pm, Jul 09, 2025

Date: 7/5/2025

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 # Q2439

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/27/2025.

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 except for RW8-SP100-20250626 [Terphenyl-d14 - 147%].,The Failure Surrogate is not Associated with DOD Parameter list,Therefore no Corrective Action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

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



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The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 4:15 pm, Jul 09, 2025

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q2439

MATRIX: Water

METHOD: 8270-Modified/3510

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
The Initial Calibration met the requirements .			
The Continuous Calibration met the requirements .			
6. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7. Surrogate Recoveries Meet Criteria		✓	
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
The Surrogate recoveries met the acceptable criteria except for RW8-SP100-20250626 [Terphenyl-d14 - 147%].,The Failure Surrogate is not Associated with DOD Parameter list,Therefore no Corrective Action was taken.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples .			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

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

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

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).”
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.

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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 4:16 pm, Jul 09, 2025

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2439

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 07/09/2025

LAB CHRONICLE

OrderID:	Q2439	OrderDate:	6/27/2025 11:04:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	A33

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2439-01	RW8-SP100-2025062 6	Water			06/26/25			06/27/25
			SVOC-SIMGroup1	8270-Modified		07/02/25	07/02/25	
Q2439-02	RW8-SP303-2025062 6	Water			06/26/25			06/27/25
			SVOC-SIMGroup1	8270-Modified		07/02/25	07/02/25	



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Hit Summary Sheet SW-846

SDG No.: Q2439

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW8-SP100-20250626							
Q2439-01	RW8-SP100-20250626	WATER	1,4-Dioxane	0.080	J	0.07	0.2	0.2 ug/L
			Total Svoc :		0.08			
			Total Concentration:		0.08			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2439

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168695BL	PB168695BL	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168695BS	PB168695BS	2-Methylnaphthalene-d10	0.4	0.47	117		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168695BSD	PB168695BSD	2-Methylnaphthalene-d10	0.4	0.47	117		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.36	91		58	132
Q2439-01	RW8-SP100-20250626	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
Q2439-02	RW8-SP303-20250626	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.50	124		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: <u>Q2439</u>	Analytical Method: <u>8270-Modified</u>
Client: <u>Tetra Tech NUS, Inc.</u>	DataFile: <u>BN037429.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB168695BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2439</u>	Analytical Method:	<u>8270-Modified</u>
Client:	<u>Tetra Tech NUS, Inc.</u>	DataFile:	<u>BN037430.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB168695BSD	1,4-Dioxane	0.4	0.30	ug/L	75	6			70	130		20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB168695BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2439

Lab File ID: BN037426.D

Lab Sample ID: PB168695BL

Instrument ID: BNA_N

Date Extracted: 07/02/2025

Matrix: (soil/water) Water

Date Analyzed: 07/02/2025

Level: (low/med) LOW

Time Analyzed: 15:01

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168695BS	PB168695BS	BN037429.D	07/02/2025
RW8-SP100-20250626	Q2439-01	BN037427.D	07/02/2025
RW8-SP303-20250626	Q2439-02	BN037428.D	07/02/2025
PB168695BSD	PB168695BSD	BN037430.D	07/02/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2439 SDG NO.: Q2439Lab File ID: BN037385.DDFTPP Injection Date: 06/26/2025Instrument ID: BNA_NDFTPP Injection Time: 10:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (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	7.1
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	78.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037386.D	06/26/2025	10:41
SSTDICC0.2	SSTDICC0.2	BN037387.D	06/26/2025	11:17
SSTDICCC0.4	SSTDICCC0.4	BN037388.D	06/26/2025	11:53
SSTDICC0.8	SSTDICC0.8	BN037389.D	06/26/2025	12:29
SSTDICC1.6	SSTDICC1.6	BN037390.D	06/26/2025	13:05
SSTDICC3.2	SSTDICC3.2	BN037391.D	06/26/2025	13:41
SSTDICC5.0	SSTDICC5.0	BN037392.D	06/26/2025	14:17



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2439 SDG NO.: Q2439Lab File ID: BN037424.DDFTPP Injection Date: 07/02/2025Instrument ID: BNA_NDFTPP Injection Time: 13:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	100.0
70	Less than 2.0% of mass 69	0.2 (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	6.9
365	Greater than 1% of mass 198	4.7
441	Present, but less than mass 443	79.0
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	14.8 (20.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037425.D	07/02/2025	14:04
PB168695BL	PB168695BL	BN037426.D	07/02/2025	15:01
RW8-SP100-20250626	Q2439-01	BN037427.D	07/02/2025	15:37
RW8-SP303-20250626	Q2439-02	BN037428.D	07/02/2025	16:14
PB168695BS	PB168695BS	BN037429.D	07/02/2025	16:50
PB168695BSD	PB168695BSD	BN037430.D	07/02/2025	17:27
SSTDCCC0.4EC	SSTDCCC0.4	BN037431.D	07/02/2025	18:03

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2439 SAS No.: Q2439 SDG NO.: Q2439

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 07/02/2025

Lab File ID: BN037425.D Time Analyzed: 14:04

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2413	7.561	5075	10.34	3293	14.21
UPPER LIMIT	4826	8.061	10150	10.84	6586	14.713
LOWER LIMIT	1206.5	7.061	2537.5	9.84	1646.5	13.713
EPA SAMPLE NO.						
01 PB168695BL	2320	7.56	4227	10.34	2645	14.21
02 RW8-SP100-20250626	1716	7.56	3491	10.34	2495	14.21
03 PB168695BS	2121	7.56	4355	10.34	2709	14.21
04 PB168695BSD	1957	7.56	4090	10.34	2586	14.21
05 RW8-SP303-20250626	1779	7.57	3739	10.34	2590	14.21

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.: Q2439 SAS No.: Q2439 SDG NO.: Q2439

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 07/02/2025

Lab File ID: BN037425.D Time Analyzed: 14:04

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	6783	16.959	6416	21.162	6880	23.351
UPPER LIMIT	13566	17.459	12832	21.662	13760	23.851
LOWER LIMIT	3391.5	16.459	3208	20.662	3440	22.851
EPA SAMPLE NO.						
01 PB168695BL	4386	16.98	4580	21.18	5125	23.36
02 RW8-SP100-20250626	5083	16.97	5310	21.17	5822	23.36
03 PB168695BS	4952	16.97	4556	21.17	5045	23.35
04 PB168695BSD	4790	16.97	4441	21.17	5091	23.36
05 RW8-SP303-20250626	4873	16.97	5056	21.17	5456	23.35

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:	06/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/27/25
Client Sample ID:	RW8-SP100-20250626	SDG No.:	Q2439
Lab Sample ID:	Q2439-01	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
BN037427.D	1	07/02/25 09:05	07/02/25 15:37	PB168695

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.080	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1720		7.56			
1146-65-2	Naphthalene-d8	3490		10.34			
15067-26-2	Acenaphthene-d10	2500		14.213			
1517-22-2	Phenanthrene-d10	5080		16.971			
1719-03-5	Chrysene-d12	5310		21.171			
1520-96-3	Perylene-d12	5820		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\BN070225\
Data File : BN037427.D
Acq On : 02 Jul 2025 15:37
Operator : RC/JU
Sample : Q2439-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

Quant Time: Jul 02 16:08:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

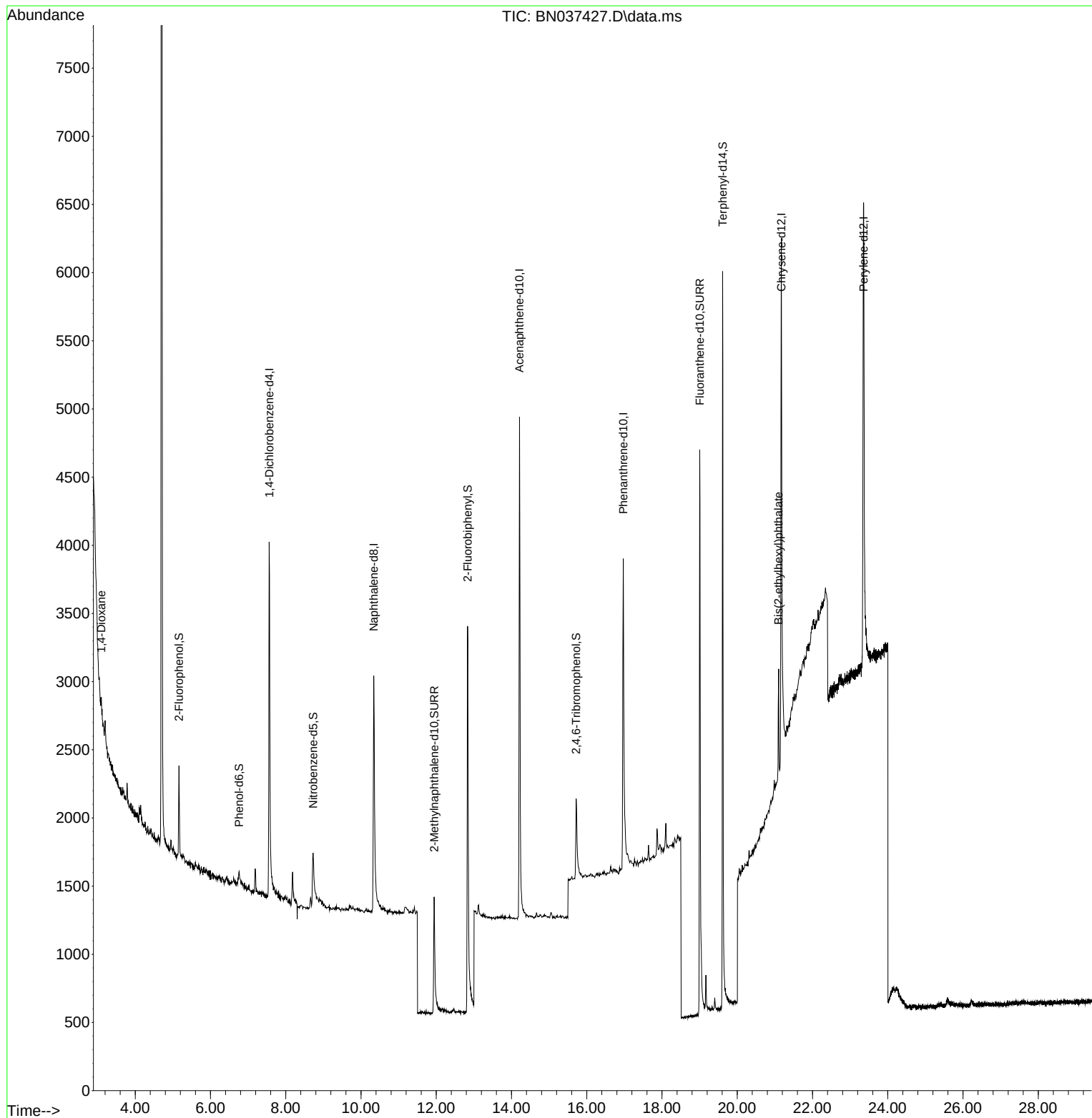
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1716	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3491	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2495	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5083	0.400	ng	0.01
29) Chrysene-d12	21.171	240	5310	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	5822	0.400	ng	# 0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	562	0.170	ng	0.00
5) Phenol-d6	6.759	99	221	0.064	ng	0.01
8) Nitrobenzene-d5	8.728	82	846	0.302	ng	0.01
11) 2-Methylnaphthalene-d10	11.945	152	1810	0.335	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	606	0.414	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	3885	0.361	ng	0.00
27) Fluoranthene-d10	19.003	212	6377	0.438	ng	0.00
31) Terphenyl-d14	19.611	244	6673	0.589	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	137	0.084	ng	# 20
34) Bis(2-ethylhexyl)phtha...	21.099	149	815	0.123	ng	# 93

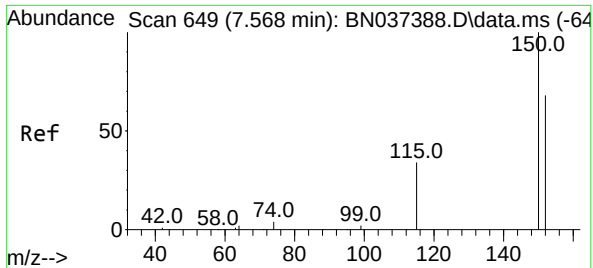
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037427.D
Acq On : 02 Jul 2025 15:37
Operator : RC/JU
Sample : Q2439-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

Quant Time: Jul 02 16:08:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

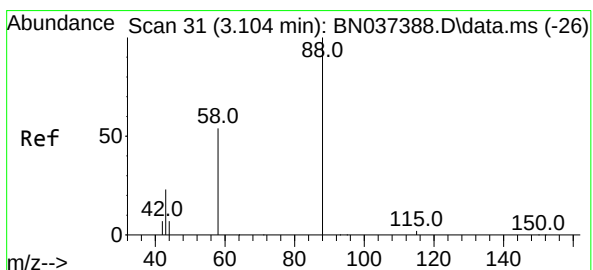
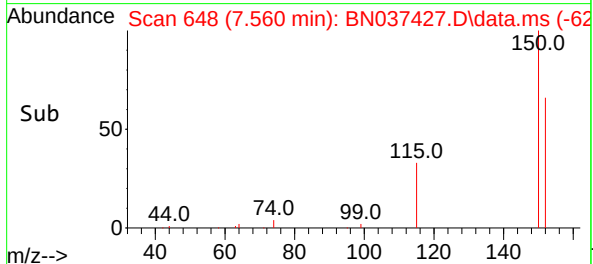
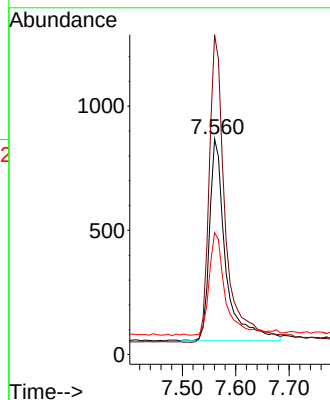
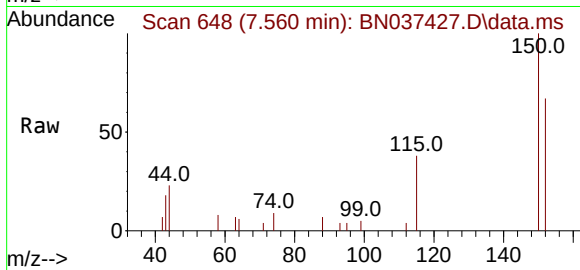




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

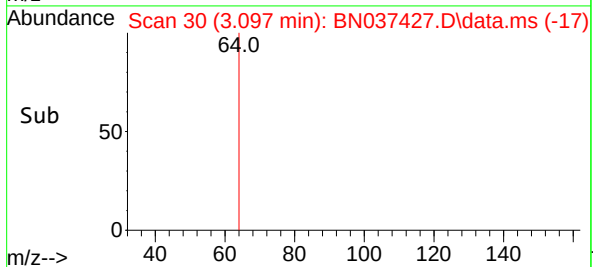
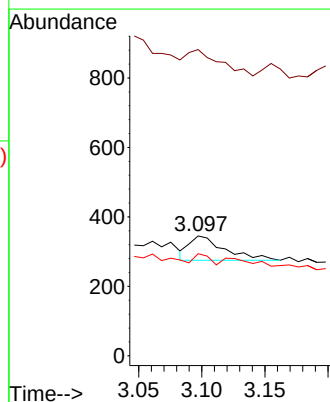
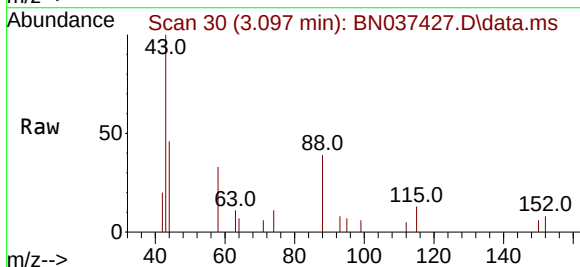
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

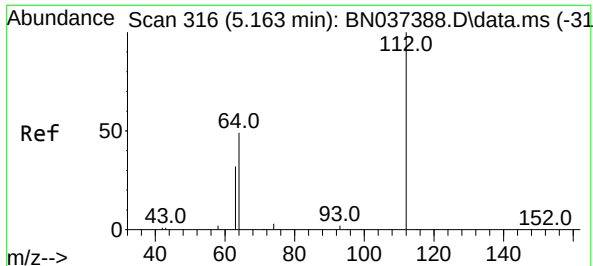
Tgt Ion:152 Resp: 1716
Ion Ratio Lower Upper
152 100
150 148.4 116.2 174.2
115 56.6 42.9 64.3



#2
1,4-Dioxane
Concen: 0.084 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

Tgt Ion: 88 Resp: 137
Ion Ratio Lower Upper
88 100
43 98.5 21.6 32.4#
58 18.2 45.9 68.9#

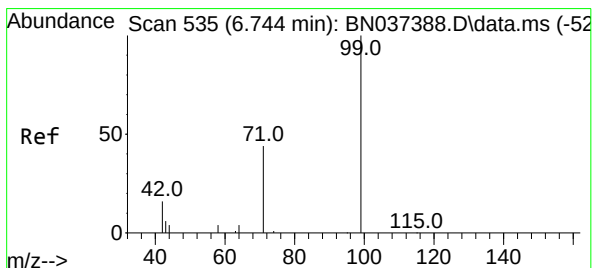
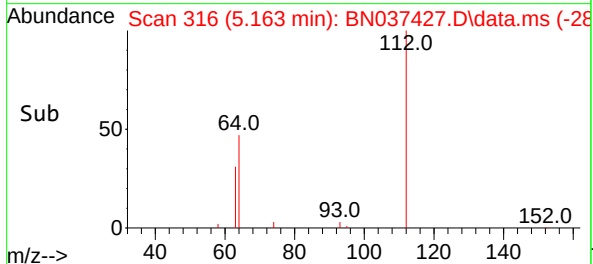
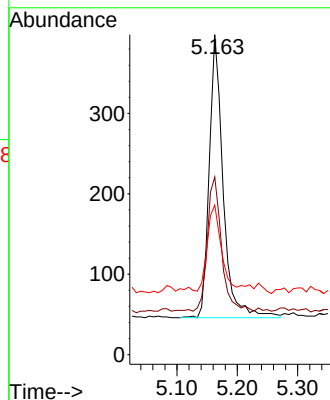
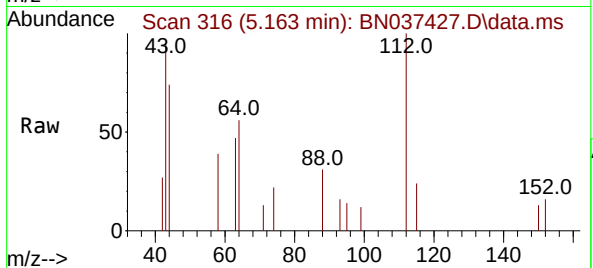




#4
2-Fluorophenol
Concen: 0.170 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

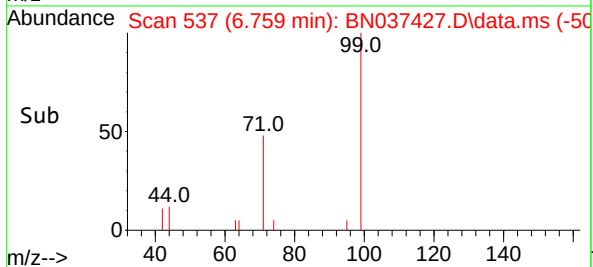
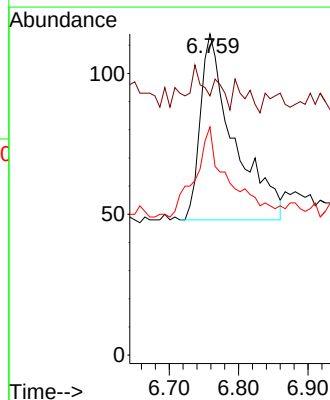
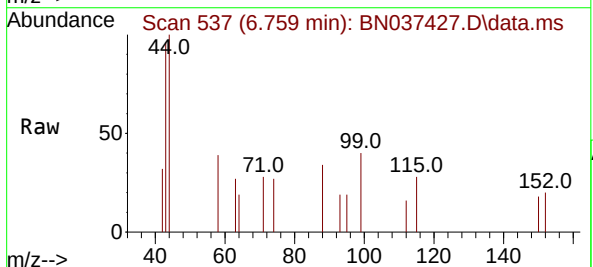
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

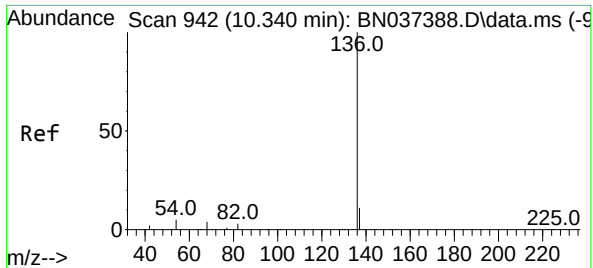
Tgt Ion:112 Resp: 562
Ion Ratio Lower Upper
112 100
64 50.2 40.3 60.5
63 30.2 26.1 39.1



#5
Phenol-d6
Concen: 0.064 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.014 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

Tgt Ion: 99 Resp: 221
Ion Ratio Lower Upper
99 100
42 5.0 15.6 23.4#
71 48.0 35.8 53.8

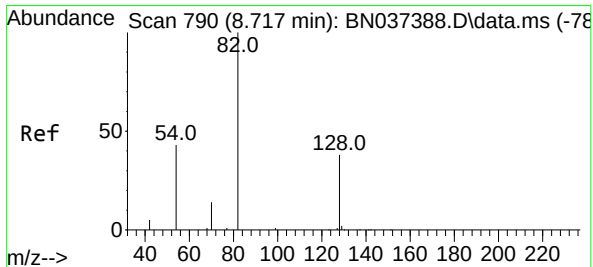
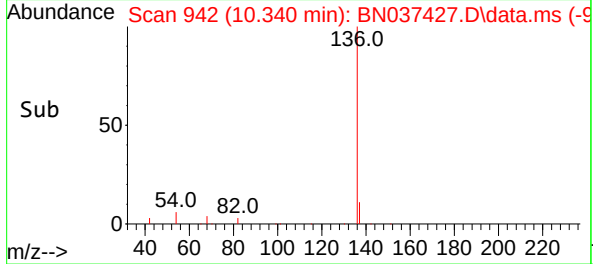
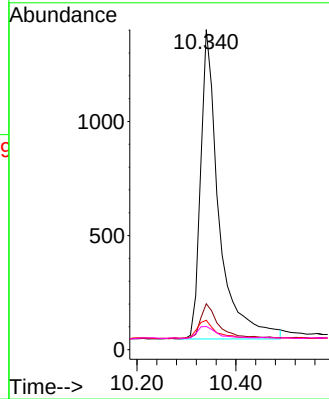
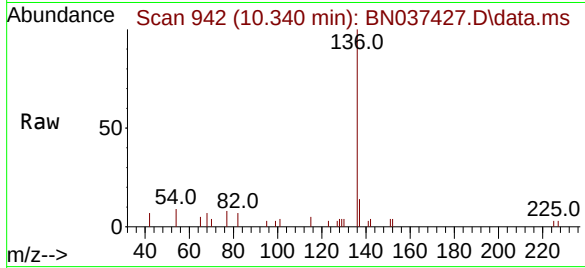




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

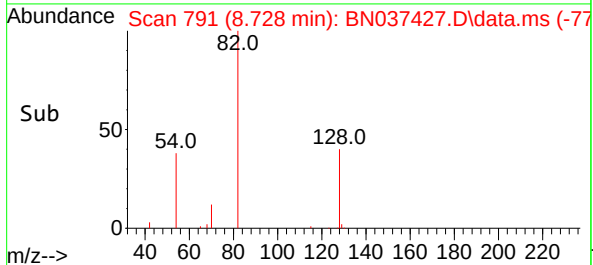
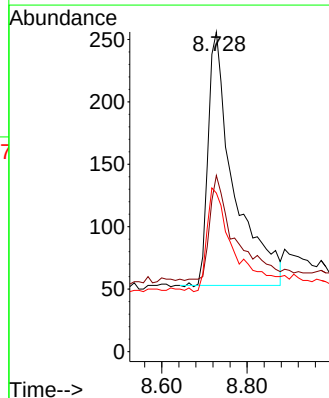
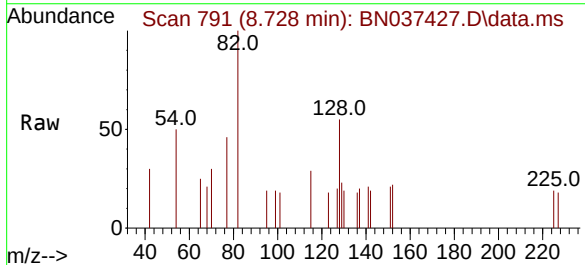
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

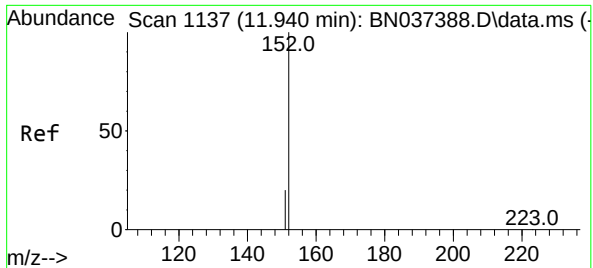
Tgt Ion:	136	Resp:	3491
Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.4	15.6
54	9.2	5.6	8.4#
68	7.3	4.6	6.8#



#8
Nitrobenzene-d5
Concen: 0.302 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

Tgt Ion:	82	Resp:	846
Ion	Ratio	Lower	Upper
82	100		
128	55.1	34.0	51.0#
54	49.6	37.7	56.5

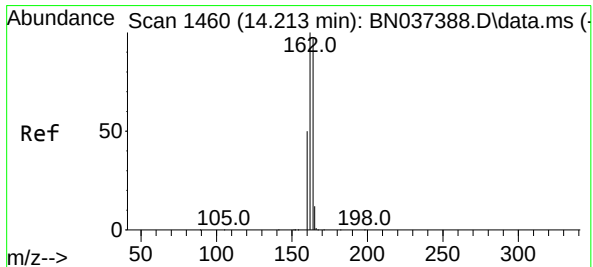
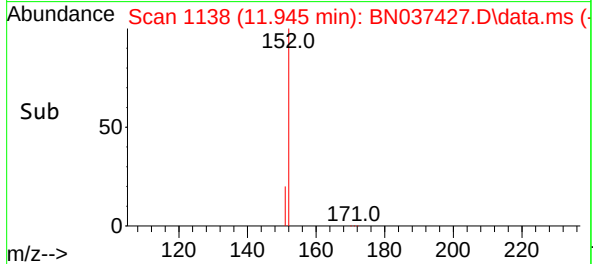
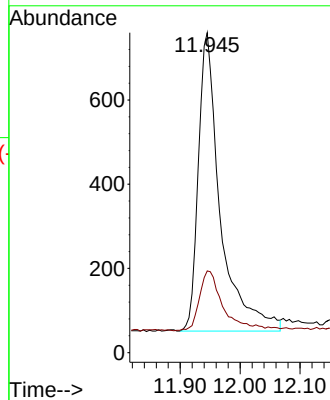
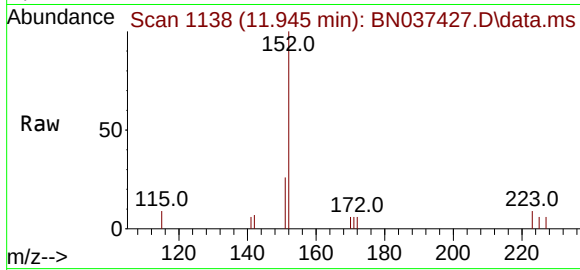




#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.005 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

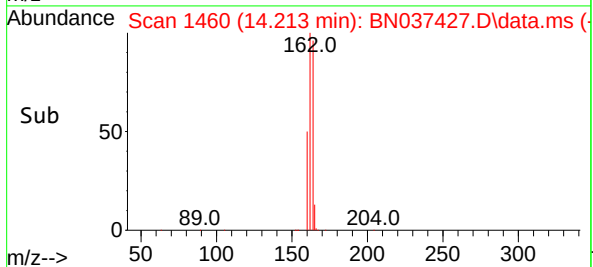
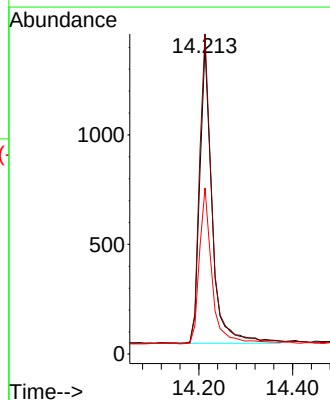
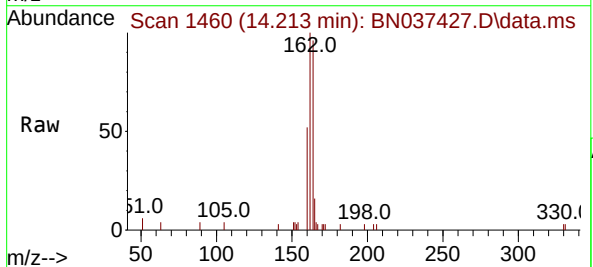
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

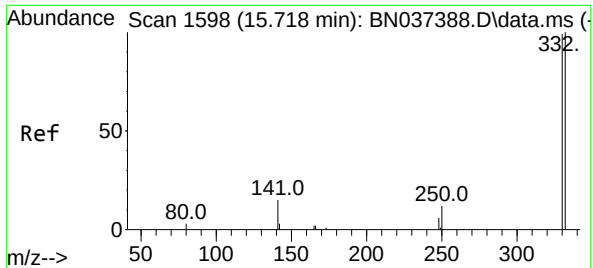
Tgt Ion:152 Resp: 1810
Ion Ratio Lower Upper
152 100
151 20.7 18.4 27.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

Tgt Ion:164 Resp: 2495
Ion Ratio Lower Upper
164 100
162 104.1 82.6 123.8
160 54.0 42.2 63.2

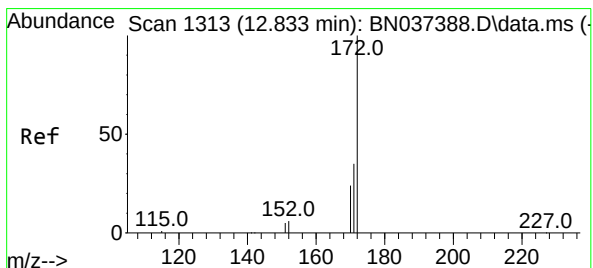
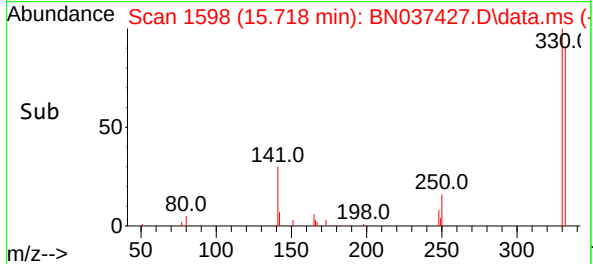
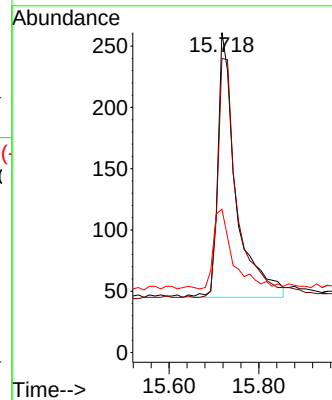
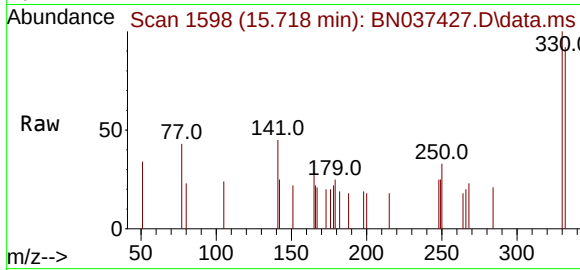




#14
2,4,6-Tribromophenol
Concen: 0.414 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

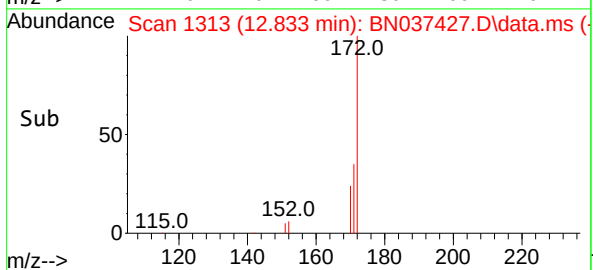
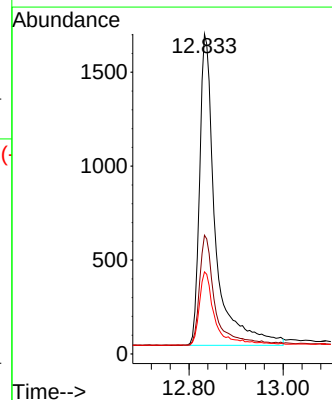
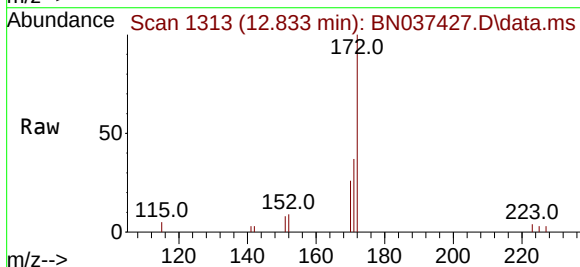
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

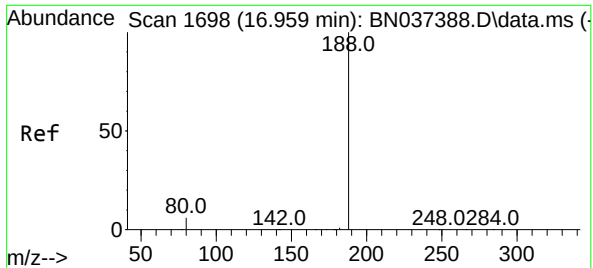
Tgt Ion:	330	Resp:	606
Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.8	116.8
141	32.7	24.0	36.0



#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 12.833 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

Tgt Ion:	172	Resp:	3885
Ion	Ratio	Lower	Upper
172	100		
171	37.1	28.8	43.2
170	25.6	20.3	30.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.012 min

Lab File: BN037427.D

Acq: 02 Jul 2025 15:37

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250626

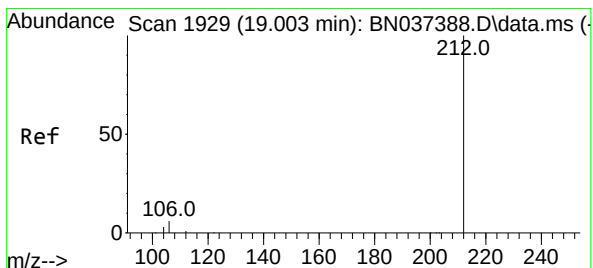
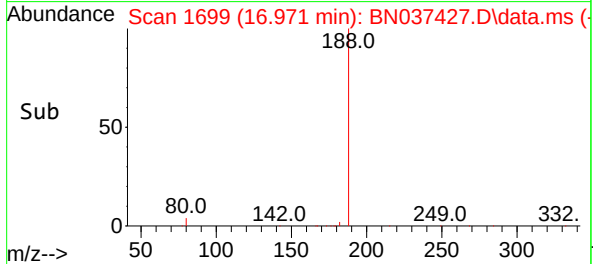
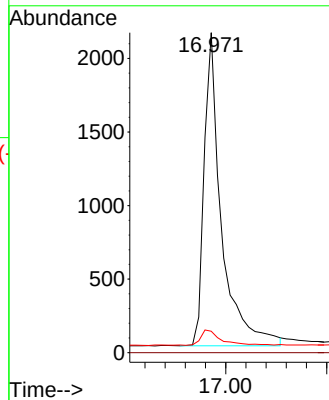
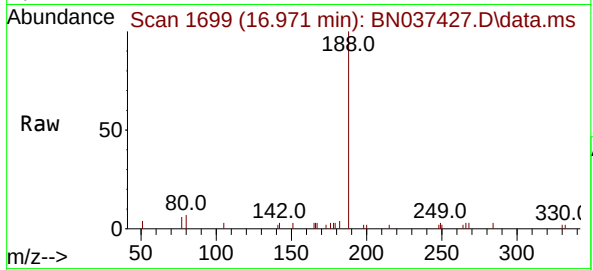
Tgt Ion:188 Resp: 5083

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.7 6.2 9.4



#27

Fluoranthene-d10

Concen: 0.438 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037427.D

Acq: 02 Jul 2025 15:37

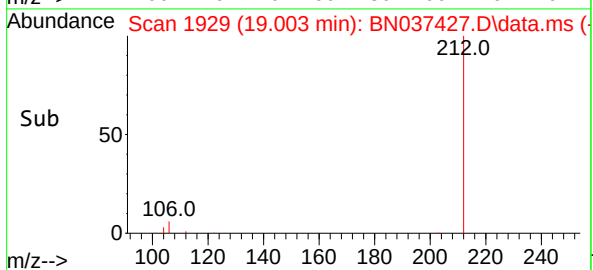
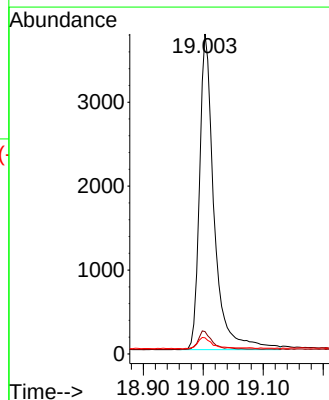
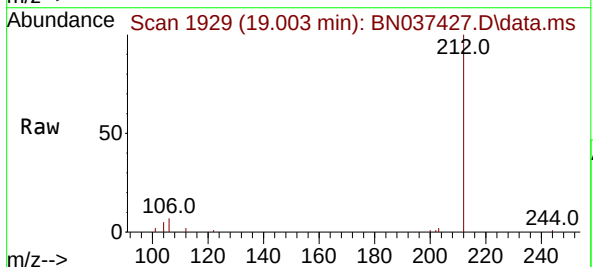
Tgt Ion:212 Resp: 6377

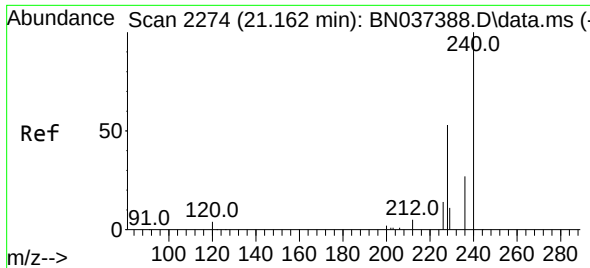
Ion Ratio Lower Upper

212 100

106 5.7 4.5 6.7

104 3.8 2.7 4.1

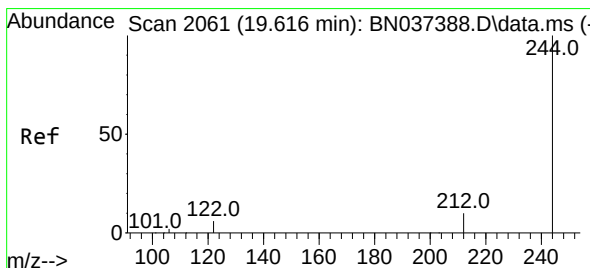
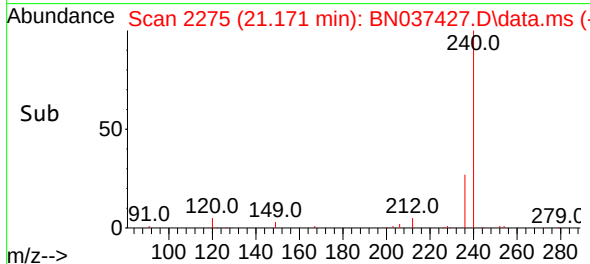
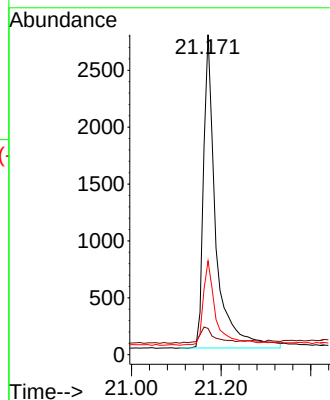
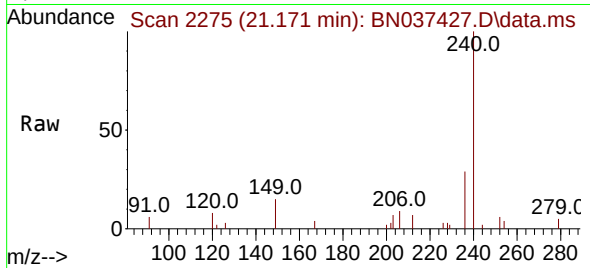




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. 0.009 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

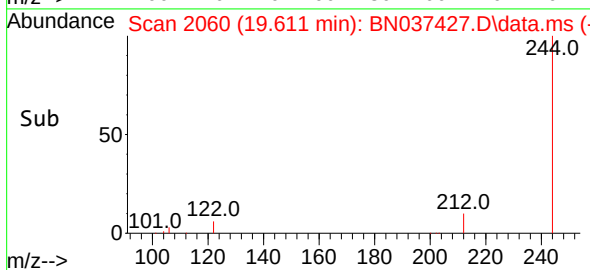
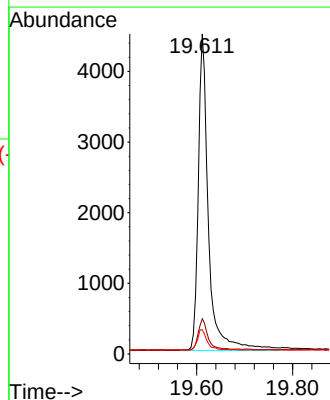
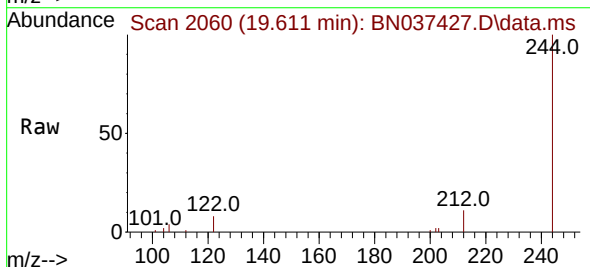
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

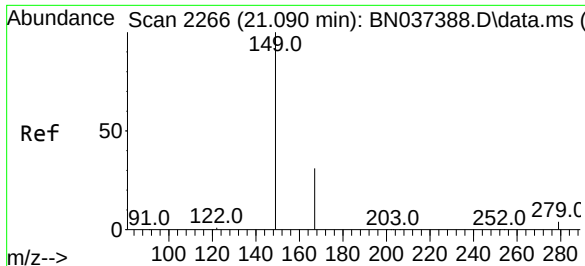
Tgt Ion:240 Resp: 5310
Ion Ratio Lower Upper
240 100
120 8.2 5.3 7.9#
236 29.3 22.7 34.1



#31
Terphenyl-d14
Concen: 0.589 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

Tgt Ion:244 Resp: 6673
Ion Ratio Lower Upper
244 100
212 11.0 9.1 13.7
122 7.6 6.3 9.5

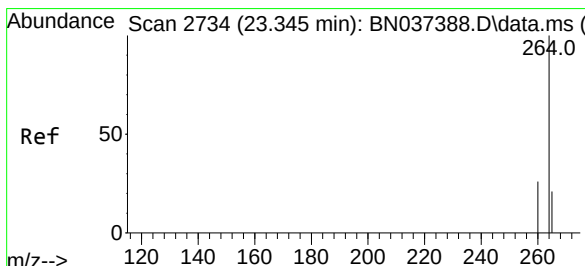
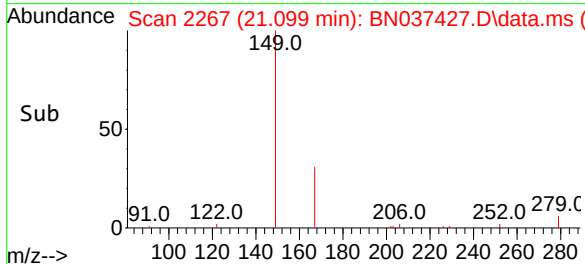
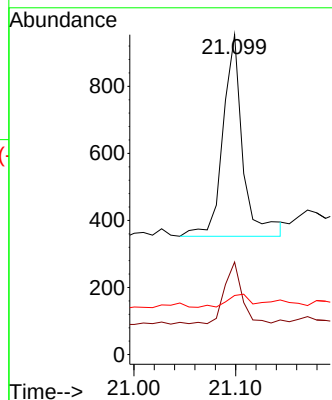
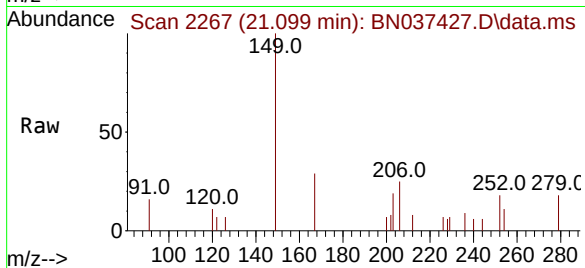




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.123 ng
RT: 21.099 min Scan# 2109
Delta R.T. 0.009 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

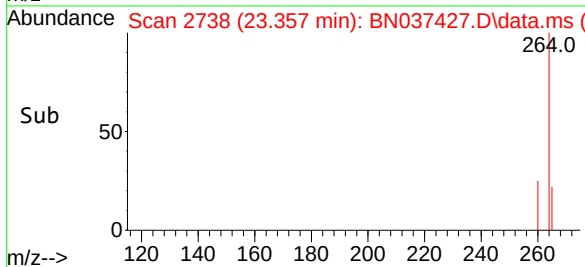
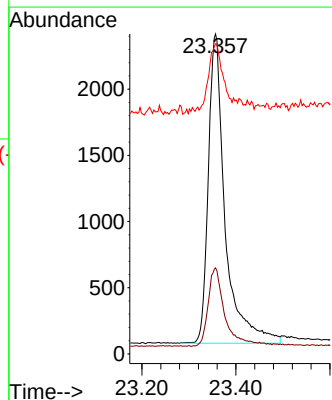
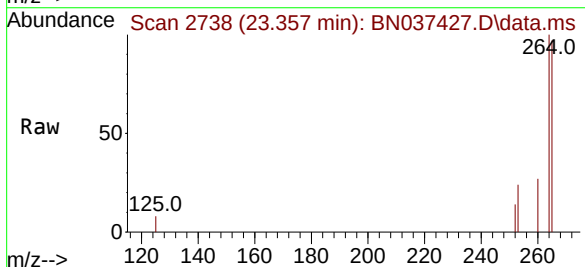
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250626

Tgt Ion:149 Resp: 815
Ion Ratio Lower Upper
149 100
167 26.9 24.8 37.2
279 8.0 5.0 7.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. 0.012 min
Lab File: BN037427.D
Acq: 02 Jul 2025 15:37

Tgt Ion:264 Resp: 5822
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.0
265 96.9 56.2 84.4#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/27/25
Client Sample ID:	RW8-SP303-20250626	SDG No.:	Q2439
Lab Sample ID:	Q2439-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037428.D	1	07/02/25 09:05	07/02/25 16:14	PB168695

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		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		124%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1780		7.568			
1146-65-2	Naphthalene-d8	3740		10.34			
15067-26-2	Acenaphthene-d10	2590		14.213			
1517-22-2	Phenanthrene-d10	4870		16.971			
1719-03-5	Chrysene-d12	5060		21.171			
1520-96-3	Perylene-d12	5460		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\BN070225\
Data File : BN037428.D
Acq On : 02 Jul 2025 16:14
Operator : RC/JU
Sample : Q2439-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250626

Quant Time: Jul 02 16:38:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

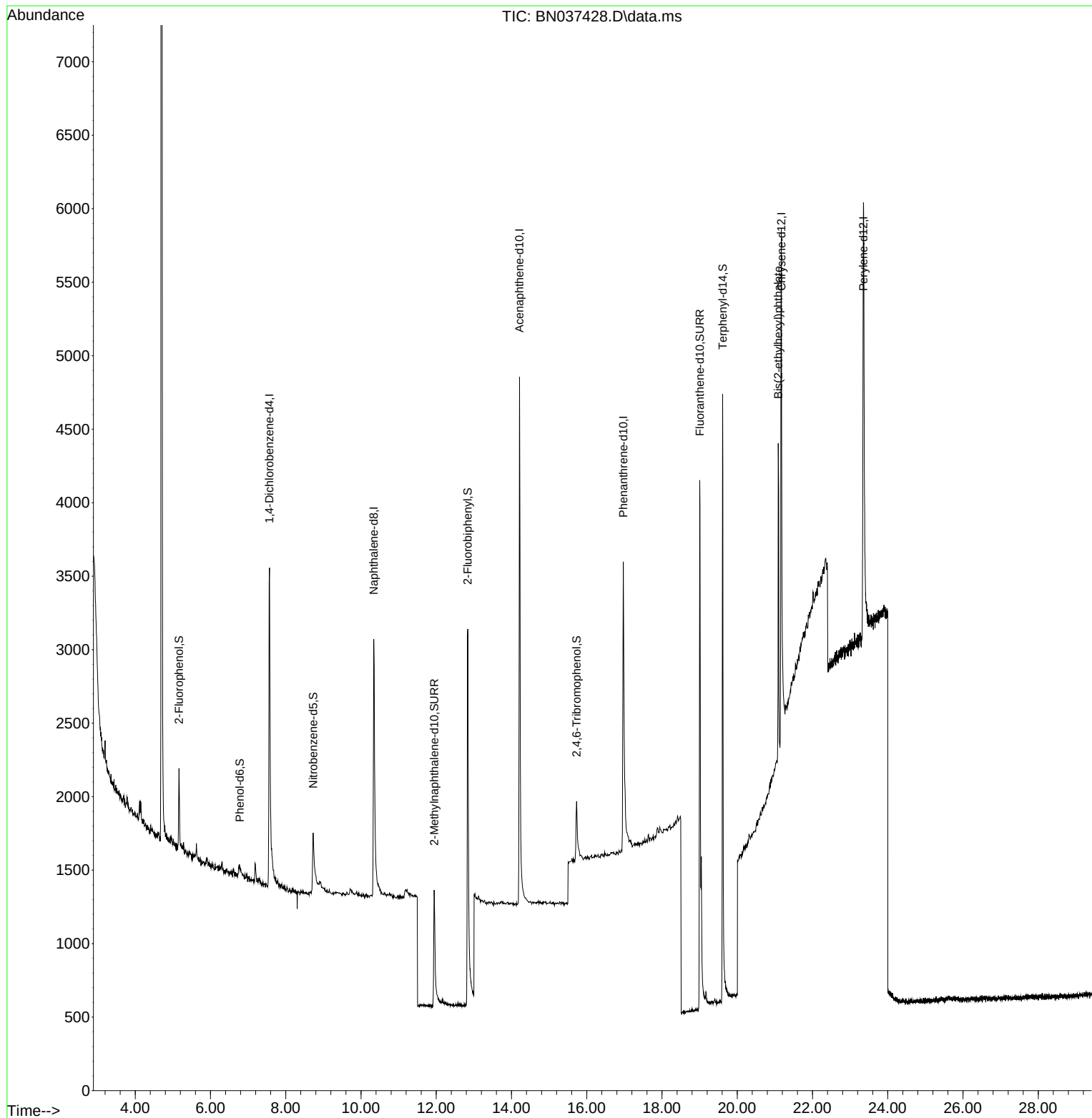
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1779	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3739	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2590	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4873	0.400	ng	0.01
29) Chrysene-d12	21.171	240	5056	0.400	ng	0.00
35) Perylene-d12	23.354	264	5456	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	499	0.146	ng	0.00
5) Phenol-d6	6.781	99	214	0.060	ng	0.04
8) Nitrobenzene-d5	8.728	82	834	0.278	ng	0.01
11) 2-Methylnaphthalene-d10	11.945	152	1889	0.327	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	470	0.309	ng	0.01
15) 2-Fluorobiphenyl	12.838	172	3814	0.341	ng	0.00
27) Fluoranthene-d10	19.003	212	6075	0.435	ng	0.00
31) Terphenyl-d14	19.612	244	5351	0.496	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.090	149	1994	0.317	ng	# 98

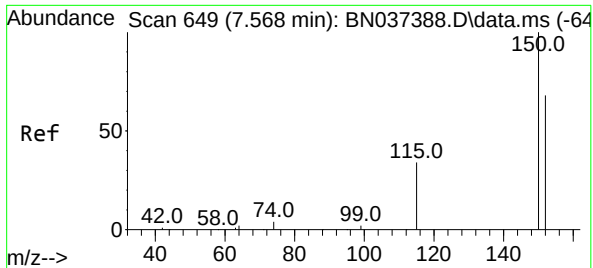
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037428.D
Acq On : 02 Jul 2025 16:14
Operator : RC/JU
Sample : Q2439-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250626

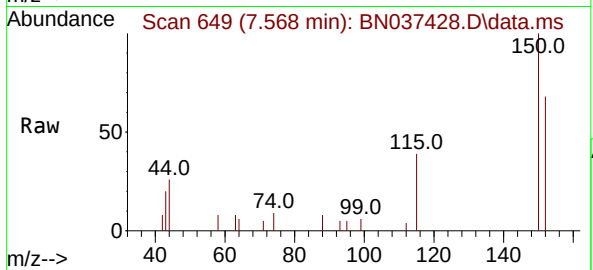
Quant Time: Jul 02 16:38:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



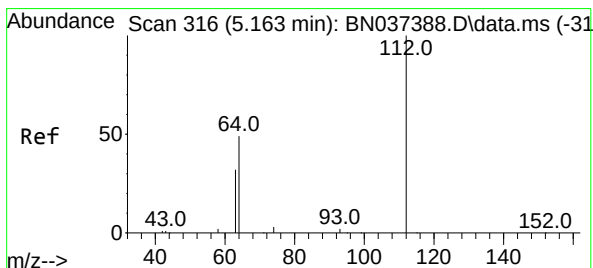
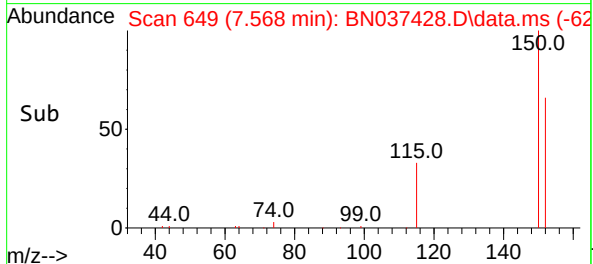
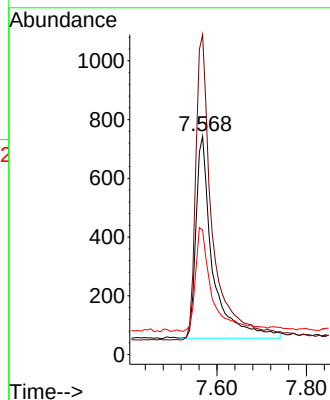


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250626

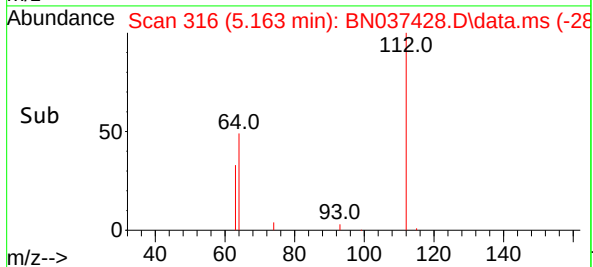
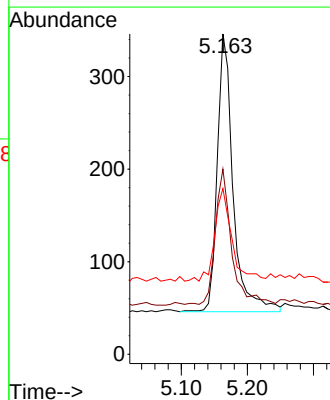
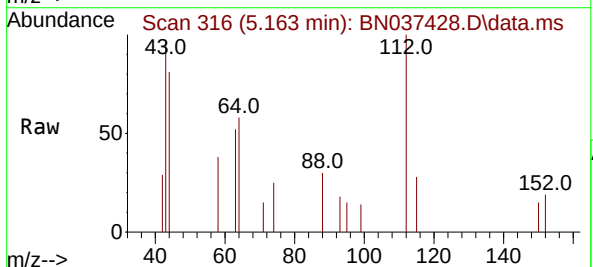


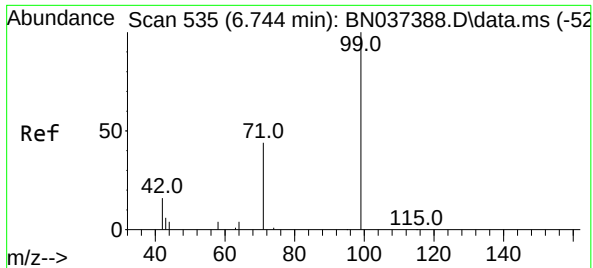
Tgt Ion:152 Resp: 1779
Ion Ratio Lower Upper
152 100
150 146.6 116.2 174.2
115 57.1 42.9 64.3



#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

Tgt Ion:112 Resp: 499
Ion Ratio Lower Upper
112 100
64 47.7 40.3 60.5
63 34.3 26.1 39.1

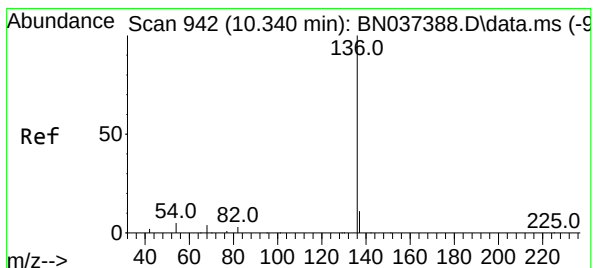
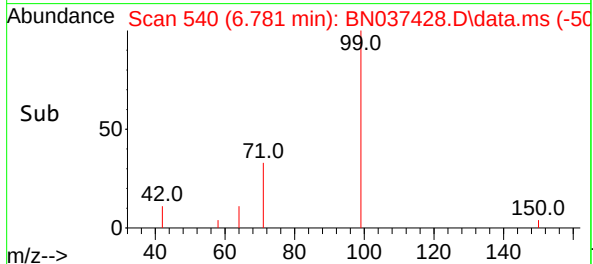
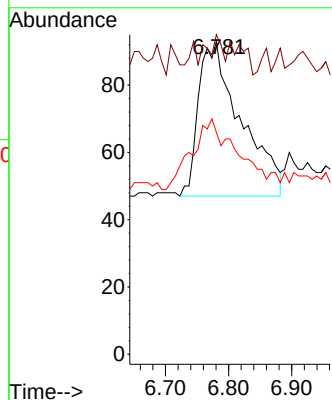
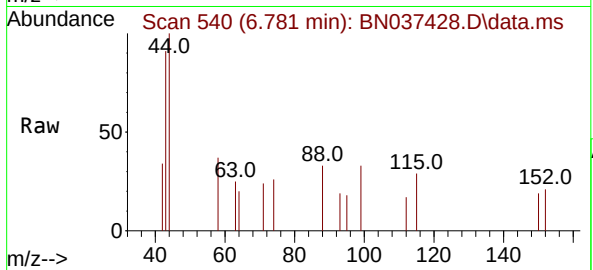




#5
Phenol-d6
Concen: 0.060 ng
RT: 6.781 min Scan# 540
Delta R.T. 0.036 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

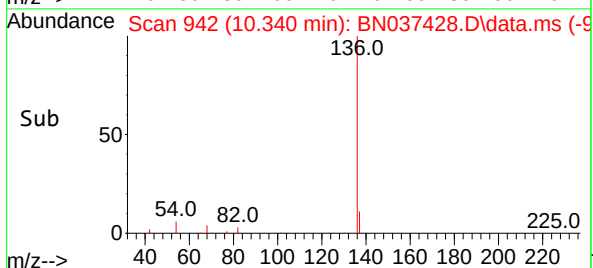
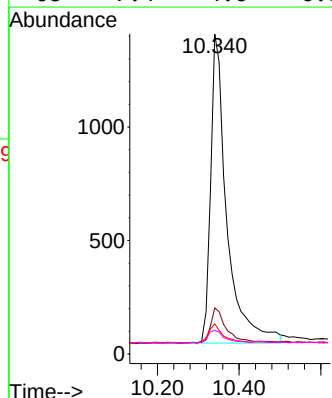
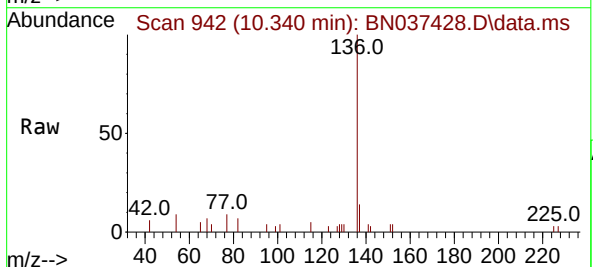
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250626

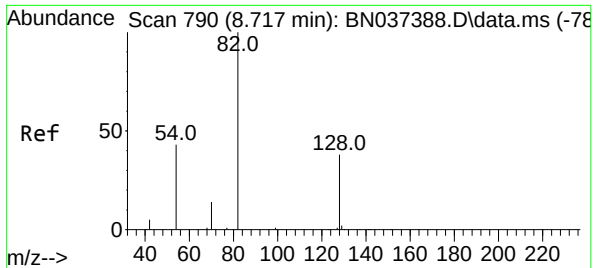
Tgt Ion: 99 Resp: 214
Ion Ratio Lower Upper
99 100
42 7.5 15.6 23.4#
71 50.5 35.8 53.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

Tgt Ion: 136 Resp: 3739
Ion Ratio Lower Upper
136 100
137 14.4 10.4 15.6
54 9.4 5.6 8.4#
68 7.4 4.6 6.8#

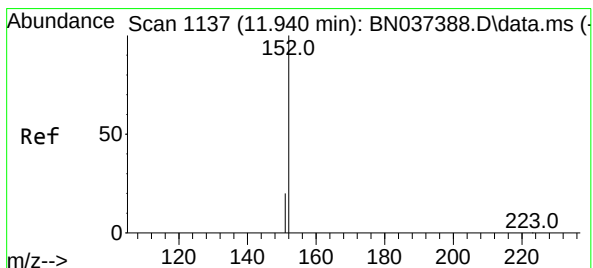
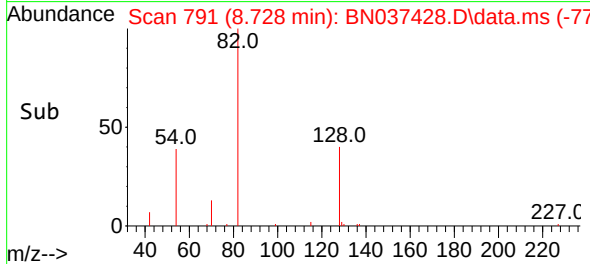
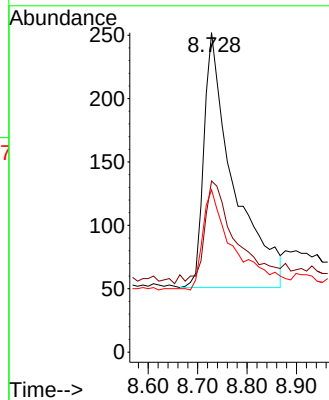
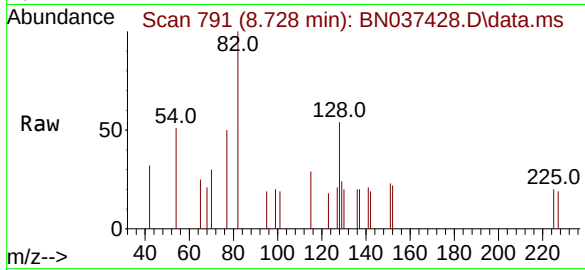




#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

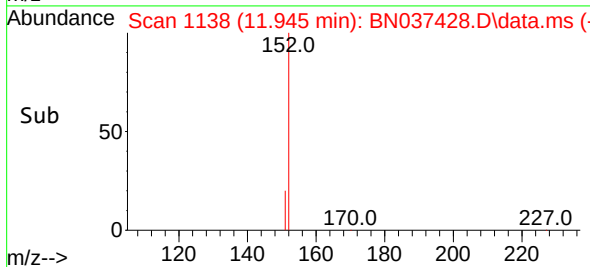
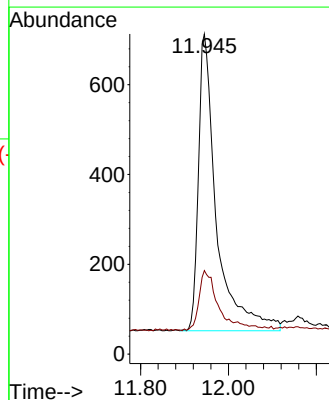
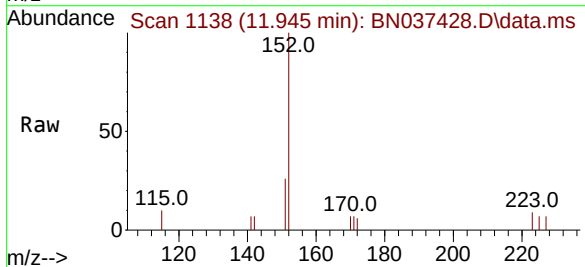
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250626

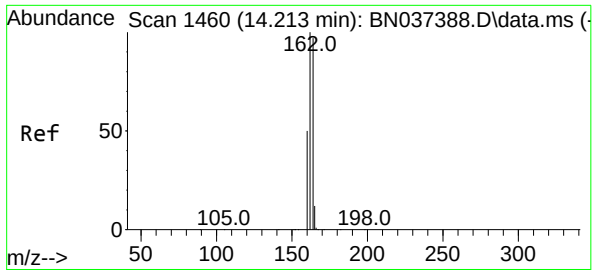
Tgt Ion: 82 Resp: 834
Ion Ratio Lower Upper
82 100
128 53.6 34.0 51.0#
54 50.8 37.7 56.5



#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.005 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

Tgt Ion: 152 Resp: 1889
Ion Ratio Lower Upper
152 100
151 22.4 18.4 27.6

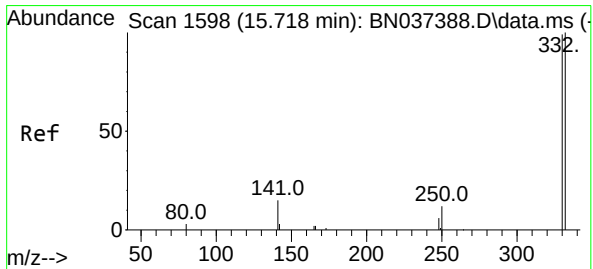
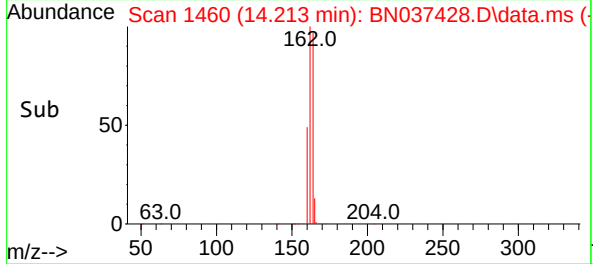
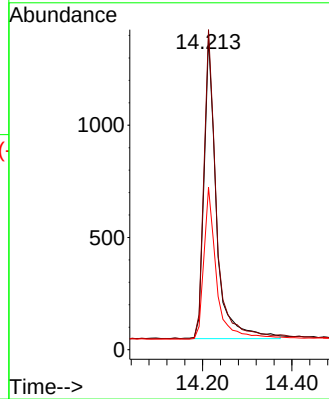
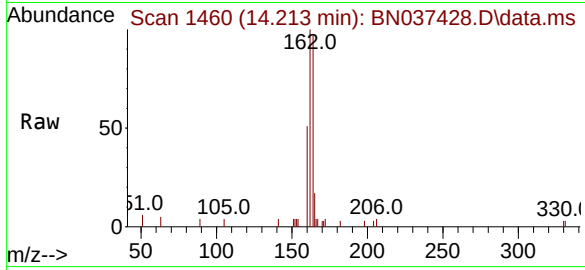




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

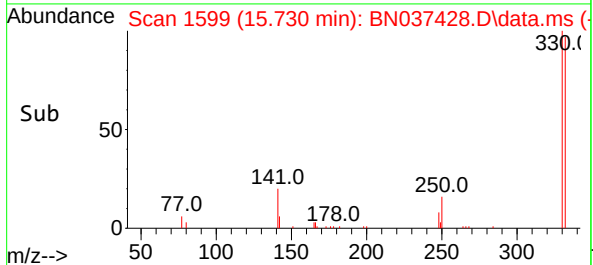
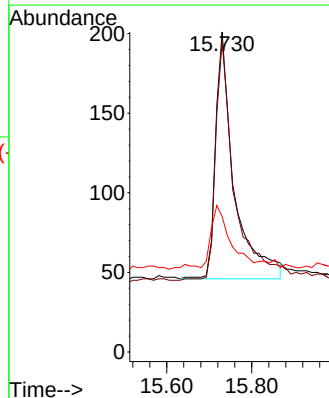
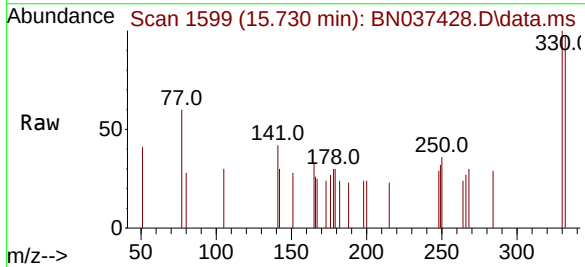
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250626

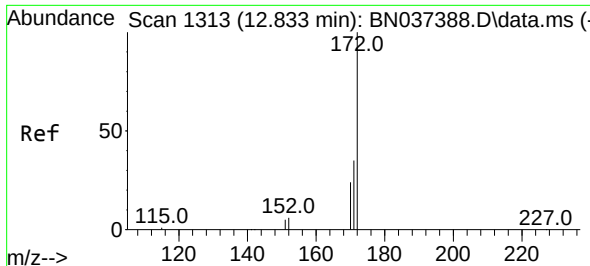
Tgt Ion:	164	Resp:	2590
Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.6	123.8
160	52.0	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.309 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.013 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

Tgt Ion:	330	Resp:	470
Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.8	116.8
141	26.0	24.0	36.0





#15

2-Fluorobiphenyl

Concen: 0.341 ng

RT: 12.838 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN037428.D

Acq: 02 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

RW8-SP303-20250626

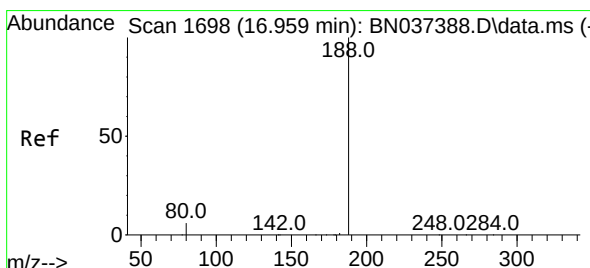
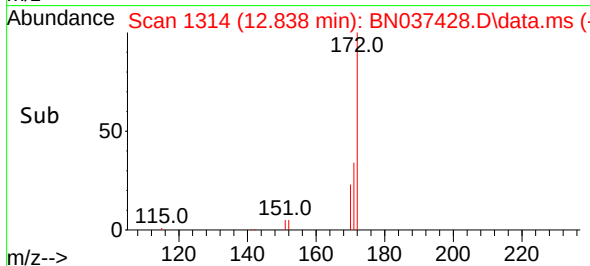
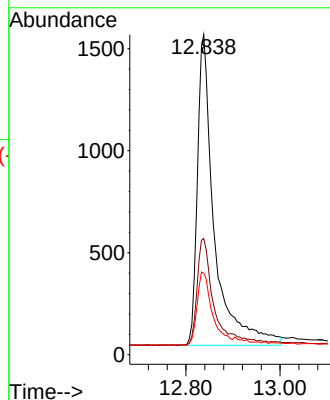
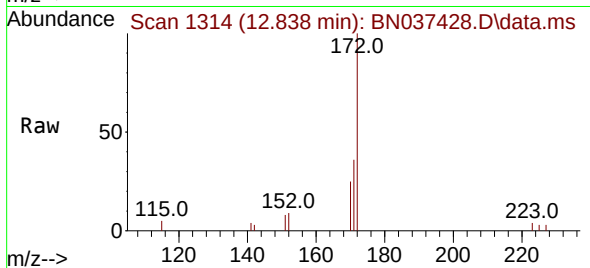
Tgt Ion:172 Resp: 3814

Ion Ratio Lower Upper

172 100

171 36.3 28.8 43.2

170 25.5 20.3 30.5



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.013 min

Lab File: BN037428.D

Acq: 02 Jul 2025 16:14

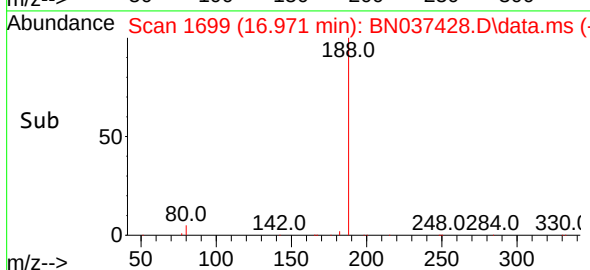
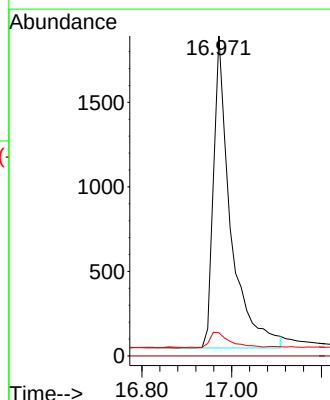
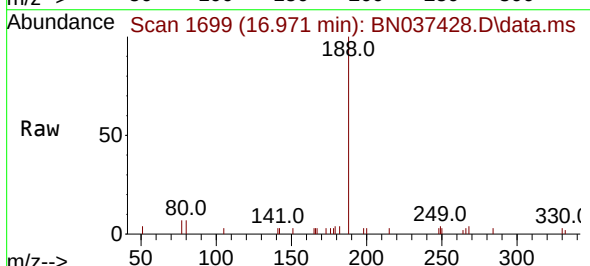
Tgt Ion:188 Resp: 4873

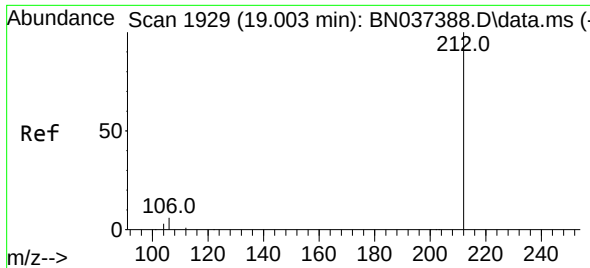
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.2 6.2 9.4





#27

Fluoranthene-d10

Concen: 0.435 ng

RT: 19.003 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN037428.D

Acq: 02 Jul 2025 16:14

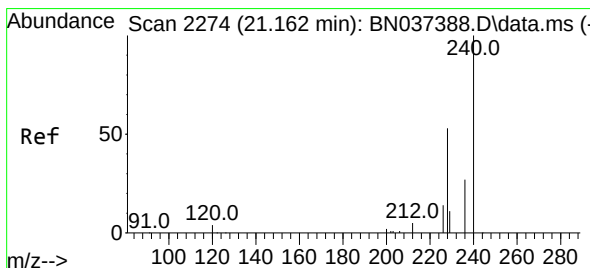
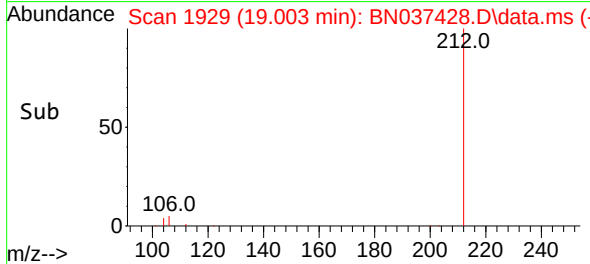
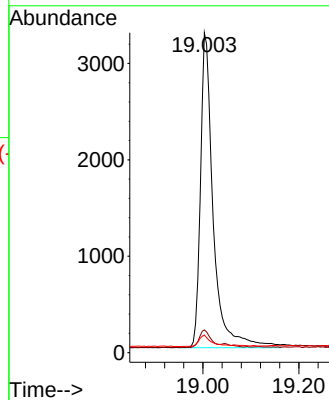
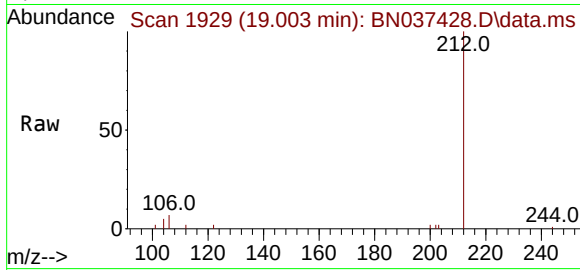
Instrument :

BNA_N

ClientSampleId :

RW8-SP303-20250626

Tgt Ion:	212	Resp:	6075
Ion Ratio	Lower	Upper	
212	100		
106	5.1	4.5	6.7
104	3.6	2.7	4.1



#29

Chrysene-d12

Concen: 0.400 ng

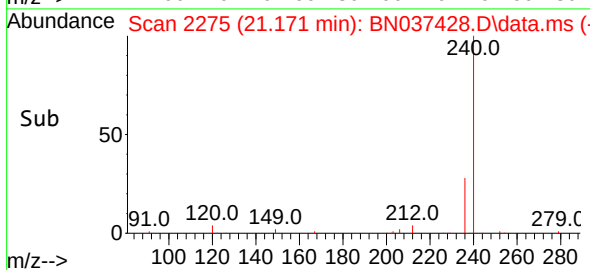
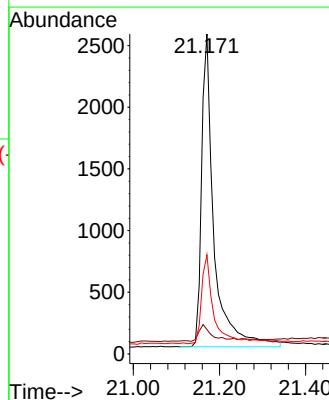
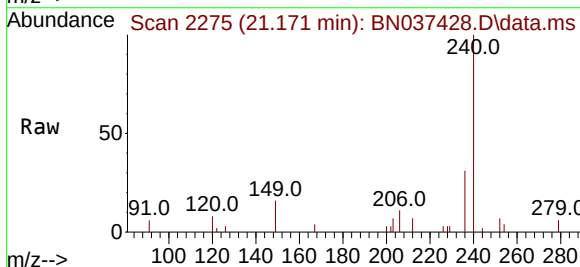
RT: 21.171 min Scan# 2275

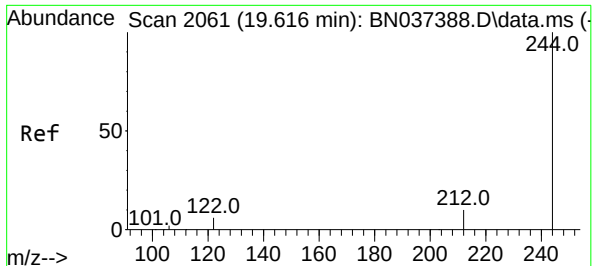
Delta R.T. 0.009 min

Lab File: BN037428.D

Acq: 02 Jul 2025 16:14

Tgt Ion:	240	Resp:	5056
Ion Ratio	Lower	Upper	
240	100		
120	7.6	5.3	7.9
236	31.0	22.7	34.1

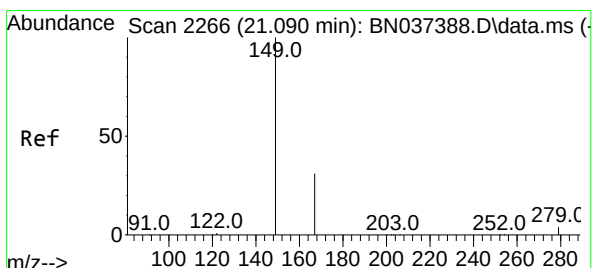
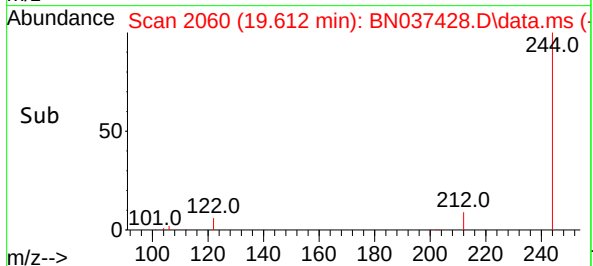
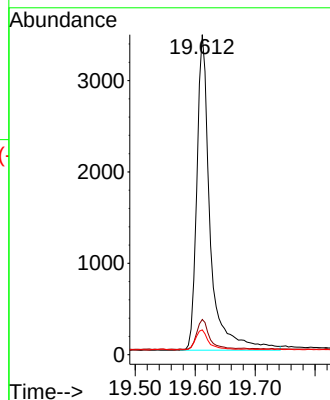
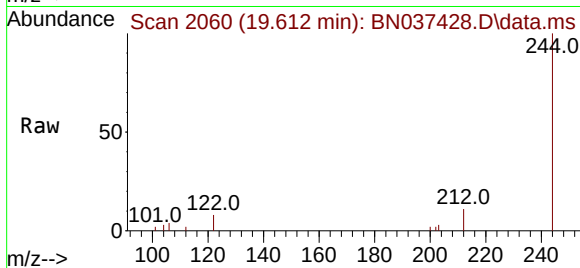




#31
Terphenyl-d14
Concen: 0.496 ng
RT: 19.612 min Scan# 2061
Delta R.T. -0.005 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

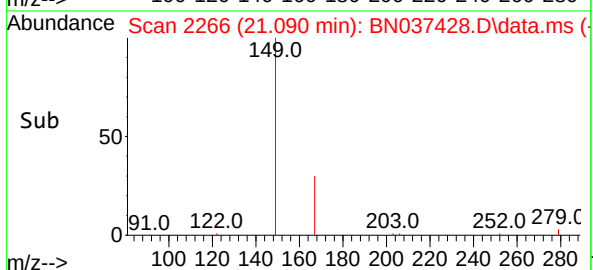
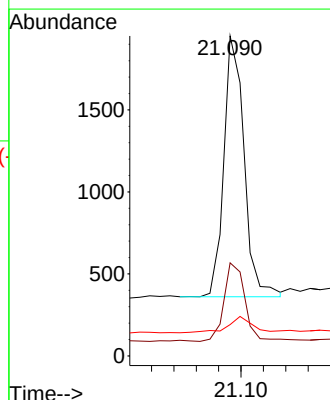
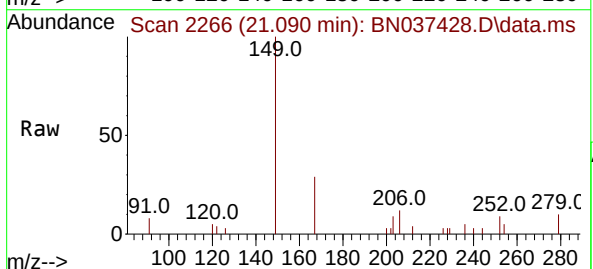
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250626

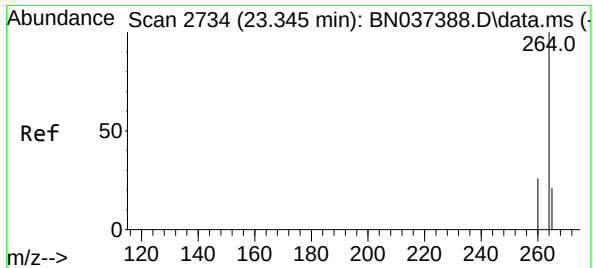
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	9.1	13.7
122	7.7	6.3	9.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.317 ng
RT: 21.090 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037428.D
Acq: 02 Jul 2025 16:14

Tgt Ion	Ratio	Lower	Upper
149	100		
167	32.0	24.8	37.2
279	7.7	5.0	7.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037428.D

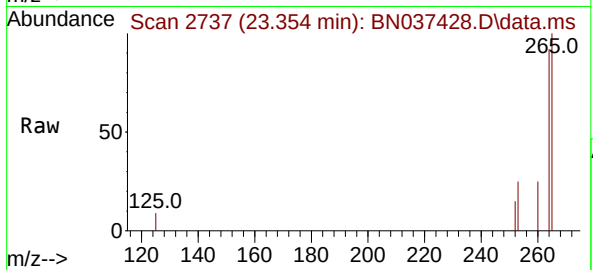
Acq: 02 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

RW8-SP303-20250626



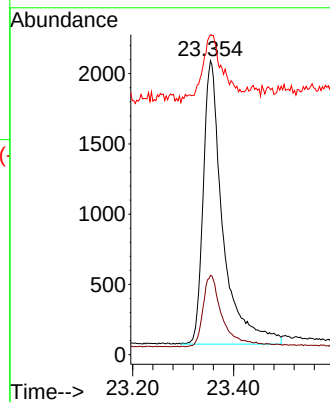
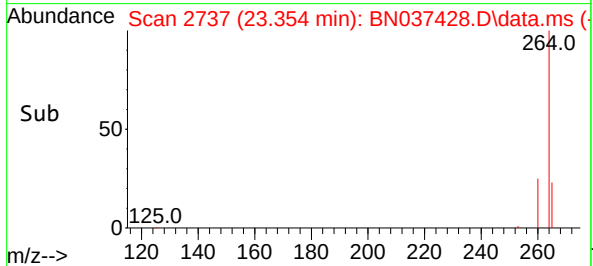
Tgt Ion:264 Resp: 5456

Ion Ratio Lower Upper

264 100

260 27.0 21.4 32.0

265 108.8 56.2 84.4#





CALIBRATION SUMMARY

- 1
- 2
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- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN062625.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jun 26 16:06:33 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037386.D 0.2 =BN037387.D 0.4 =BN037388.D 0.8 =BN037389.D 1.6 =BN037390.D 3.2 =BN037391.D 5 =BN037392.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.470	0.369	0.366	0.377	0.363	0.331	0.379	12.38	
3)	n-Nitrosodimet...	0.377	0.374	0.366	0.385	0.374	0.371	0.375	1.73	
4) S	2-Fluorophenol	0.771	0.778	0.804	0.697	0.754	0.773	0.818	0.771	5.09
5) S	Phenol-d6	0.663	0.706	0.812	0.737	0.839	0.886	0.951	0.799	12.86
6)	bis(2-Chloroet...	0.574	0.661	0.718	0.694	0.765	0.775	0.790	0.711	10.74
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.270	0.281	0.311	0.296	0.345	0.353	0.389	0.321	13.45
9)	Naphthalene	1.042	1.001	0.999	0.972	1.048	1.050	1.096	1.030	4.06
10)	Hexachlorobuta...	0.407	0.410	0.413	0.400	0.422	0.404	0.405	0.409	1.74
11) SURR2	Methylnaphth...	0.532	0.567	0.576	0.568	0.628	0.656	0.807	0.619	14.98
12)	2-Methylnaphth...	0.635	0.665	0.684	0.662	0.746	0.767	0.803	0.709	8.89
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.194	0.207	0.239	0.225	0.251	0.256	0.271	0.235	11.68
15) S	2-Fluorobiphenyl	1.548	1.656	1.723	1.652	1.798	1.801	1.910	1.727	6.95
16)	Acenaphthylene	1.585	1.600	1.576	1.538	1.714	1.741	1.858	1.659	6.95
17)	Acenaphthene	1.030	1.027	1.045	1.009	1.123	1.147	1.203	1.083	6.85
18)	Fluorene	1.444	1.417	1.476	1.420	1.603	1.643	1.706	1.530	7.74
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.084	0.085	0.087	0.113	0.119	0.128	0.103	19.13	
21)	4-Bromophenyl-...	0.264	0.253	0.270	0.269	0.303	0.302	0.316	0.282	8.58
22)	Hexachlorobenzene	0.310	0.299	0.302	0.291	0.311	0.301	0.311	0.303	2.45
23)	Atrazine	0.200	0.208	0.213	0.204	0.232	0.242	0.266	0.224	10.81
24)	Pentachlorophenol	0.164	0.155	0.148	0.165	0.165	0.168	0.183	0.164	7.30
25)	Phenanthrene	1.056	1.067	1.080	1.038	1.172	1.190	1.287	1.127	8.12
26)	Anthracene	0.935	0.972	0.969	0.959	1.076	1.120	1.222	1.036	10.28
27) SURR	Fluoranthene-d10	1.073	1.137	1.063	1.028	1.121	1.154	1.447	1.146	12.22
28)	Fluoranthene	1.377	1.398	1.362	1.320	1.487	1.507	1.624	1.439	7.32
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.459	1.449	1.534	1.431	1.561	1.550	1.612	1.514	4.47
31) S	Terphenyl-d14	0.800	0.794	0.868	0.796	0.878	0.892	0.943	0.853	6.77
32)	Benzo(a)anthra...	1.149	1.202	1.167	1.152	1.318	1.364	1.446	1.257	9.46
33)	Chrysene	1.630	1.573	1.583	1.491	1.554	1.510	1.551	1.556	2.98
34)	Bis(2-ethylhex...	0.509	0.504	0.466	0.481	0.488	0.537	0.498	5.00	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN062625.M

36)	Indeno(1,2,3-c...	1.487	1.515	1.577	1.620	1.786	1.853	1.967	1.686	10.88
37)	Benzo(b)fluora...	1.329	1.305	1.318	1.320	1.464	1.504	1.632	1.410	8.93
38)	Benzo(k)fluora...	1.408	1.389	1.462	1.430	1.552	1.613	1.697	1.507	7.73
39) C	Benzo(a)pyrene	1.211	1.160	1.183	1.174	1.286	1.341	1.426	1.254	8.01
40)	Dibenzo(a,h)an...	1.050	1.138	1.211	1.229	1.394	1.485	1.561	1.296	14.53
41)	Benzo(g,h,i)pe...	1.425	1.473	1.477	1.462	1.617	1.658	1.725	1.548	7.51

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037386.D
 Acq On : 26 Jun 2025 10:41
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025

Quant Time: Jun 26 16:03:56 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Jun 26 16:02:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	2183	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4628	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2945	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5811	0.400	ng	0.01
29) Chrysene-d12	21.171	240	5498	0.400	ng	0.00
35) Perylene-d12	23.348	264	5798	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	421	0.100	ng	0.00
5) Phenol-d6	6.744	99	362	0.083	ng	0.00
8) Nitrobenzene-d5	8.728	82	312m	0.085	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	615	0.086	ng	0.02
14) 2,4,6-Tribromophenol	15.730	330	143	0.083	ng	0.01
15) 2-Fluorobiphenyl	12.843	172	1140	0.090	ng	0.01
27) Fluoranthene-d10	19.008	212	1559	0.094	ng	0.00
31) Terphenyl-d14	19.625	244	1099	0.094	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.004	93	313	0.081	ng	# 85
9) Naphthalene	10.394	128	1206	0.101	ng	# 86
10) Hexachlorobutadiene	10.682	225	471	0.100	ng	# 98
12) 2-Methylnaphthalene	12.026	142	735	0.090	ng	96
16) Acenaphthylene	13.935	152	1167	0.096	ng	97
17) Acenaphthene	14.277	154	758	0.095	ng	98
18) Fluorene	15.272	166	1063	0.094	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	383	0.093	ng	# 93
22) Hexachlorobenzene	16.276	284	450	0.102	ng	98
23) Atrazine	16.462	200	291	0.090	ng	# 73
25) Phenanthrene	17.009	178	1534	0.094	ng	97
26) Anthracene	17.108	178	1358	0.090	ng	100
28) Fluoranthene	19.040	202	2001	0.096	ng	99
30) Pyrene	19.402	202	2006	0.096	ng	99
32) Benzo(a)anthracene	21.153	228	1579	0.091	ng	92
33) Chrysene	21.198	228	2241	0.105	ng	94
36) Indeno(1,2,3-cd)pyrene	25.535	276	2156	0.088	ng	# 90
37) Benzo(b)fluoranthene	22.699	252	1927	0.094	ng	# 66
38) Benzo(k)fluoranthene	22.740	252	2041	0.093	ng	# 61
39) Benzo(a)pyrene	23.254	252	1755	0.097	ng	# 52
40) Dibenzo(a,h)anthracene	25.567	278	1522	0.081	ng	# 41
41) Benzo(g,h,i)perylene	26.193	276	2066	0.092	ng	# 87

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037386.D
Acq On : 26 Jun 2025 10:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

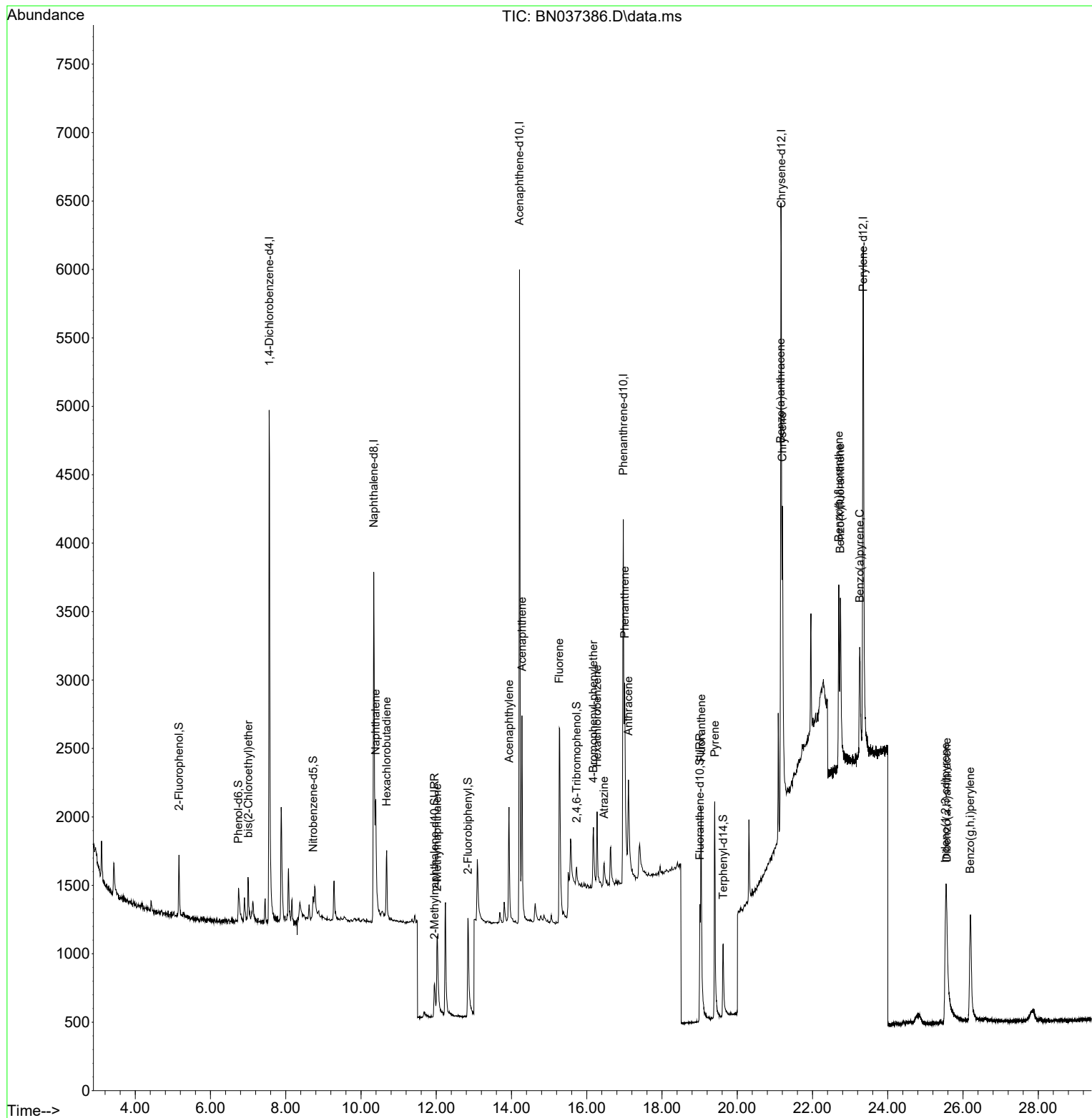
Manual Integrations

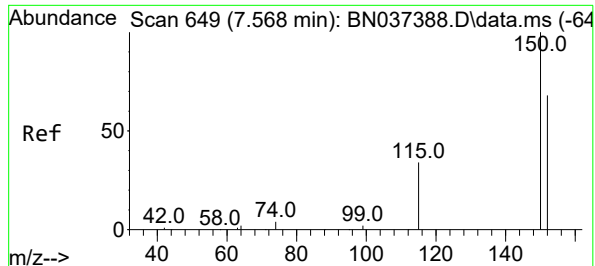
APPROVED

Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025

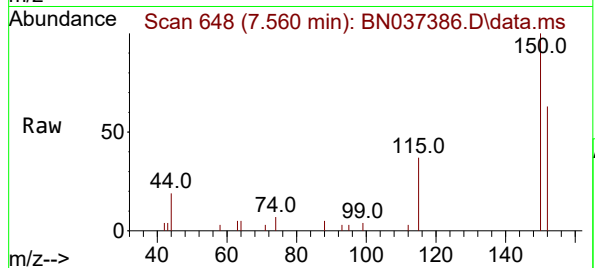
Quant Time: Jun 26 16:03:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:02:41 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 649
Delta R.T. -0.008 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

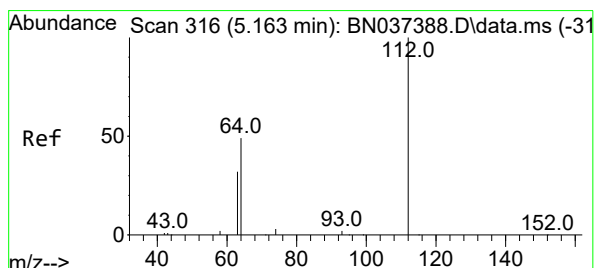
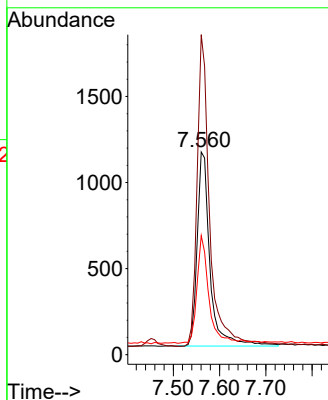
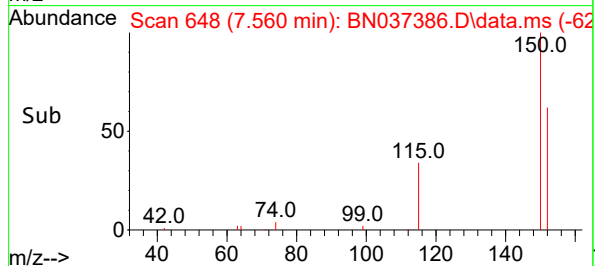
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 218
Ion Ratio Lower Upper
152 100
150 157.8 116.2 174.2
115 58.7 42.9 64.3

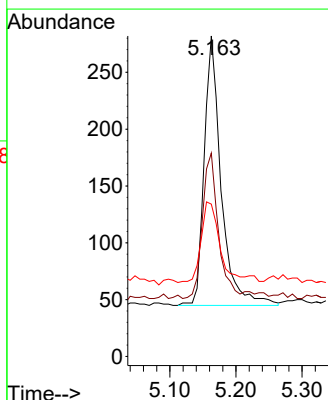
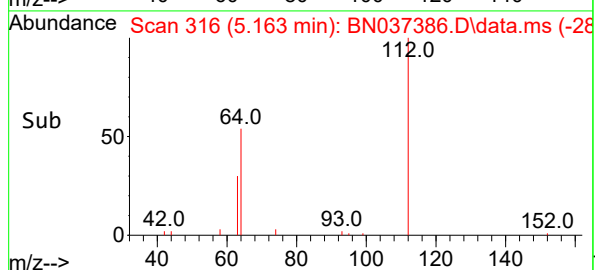
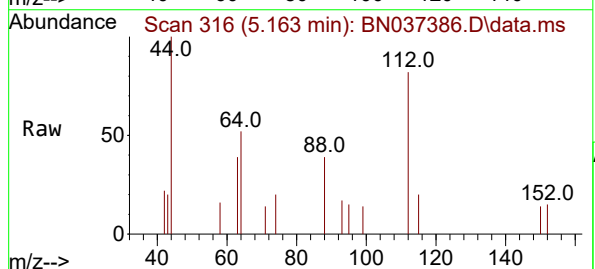
Manual Integrations
APPROVED

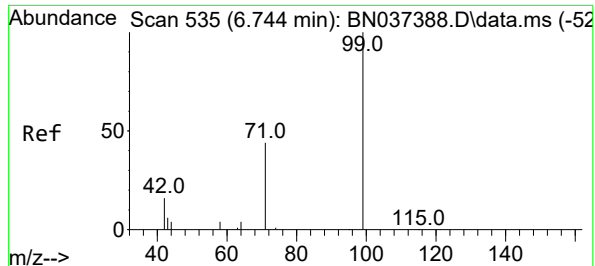
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:112 Resp: 421
Ion Ratio Lower Upper
112 100
64 50.6 40.3 60.5
63 34.0 26.1 39.1





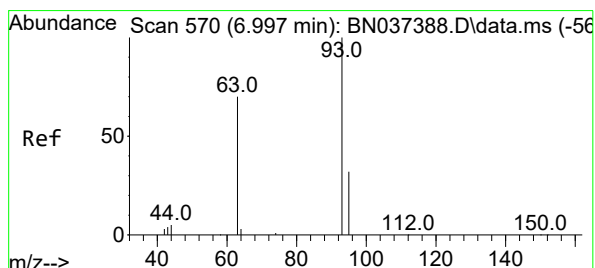
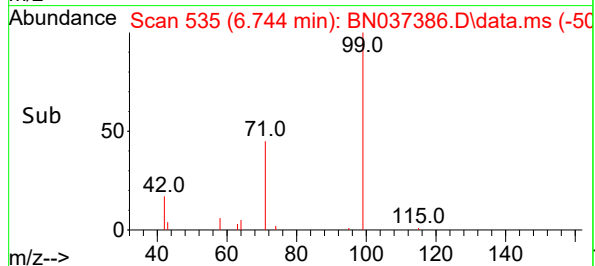
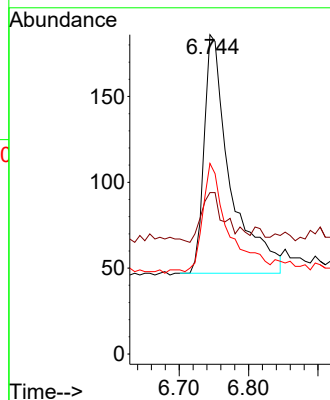
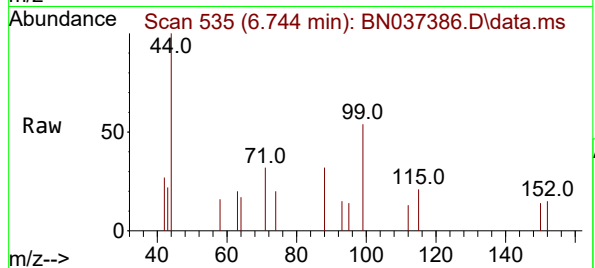
#5
Phenol-d6
Concen: 0.083 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 362
Ion Ratio Lower Upper
99 100
42 19.6 15.6 23.4
71 43.6 35.8 53.8

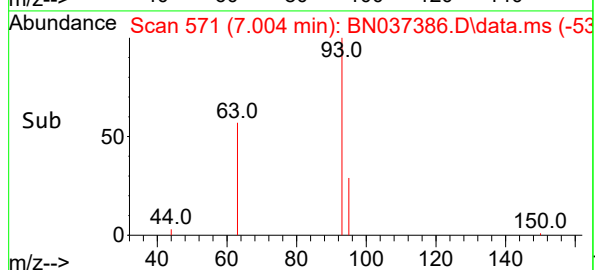
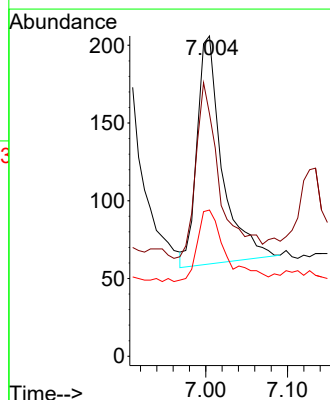
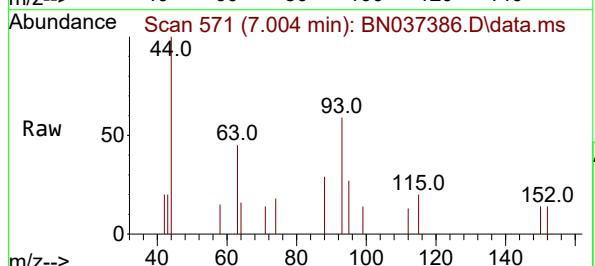
Manual Integrations
APPROVED

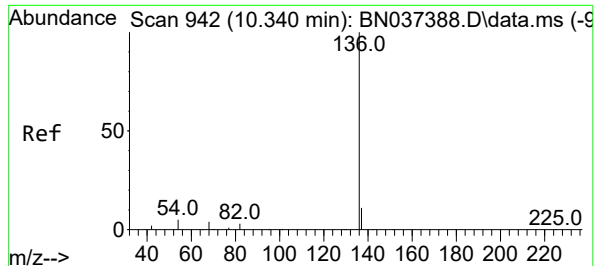
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.081 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

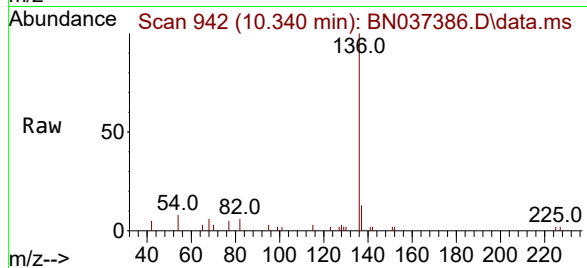
Tgt Ion: 93 Resp: 313
Ion Ratio Lower Upper
93 100
63 75.1 49.6 74.4#
95 35.5 23.9 35.9





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

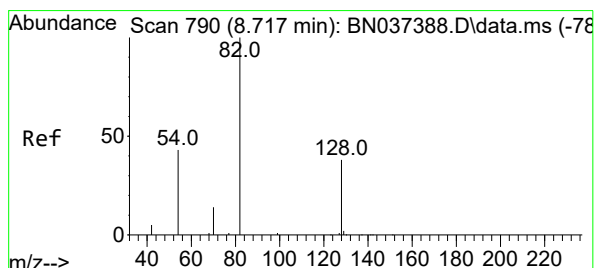
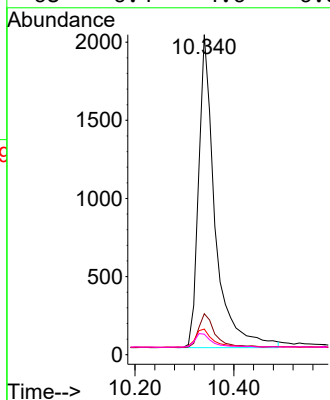
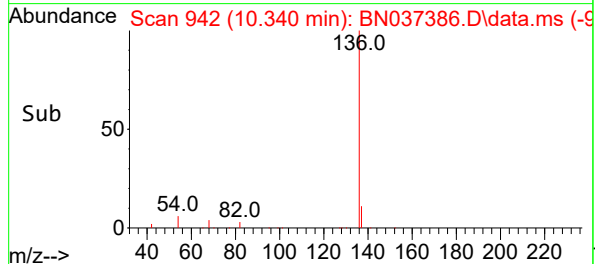
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 136 Resp: 4628
Ion Ratio Lower Upper
136 100
137 12.8 10.4 15.6
54 8.0 5.6 8.4
68 6.4 4.6 6.8

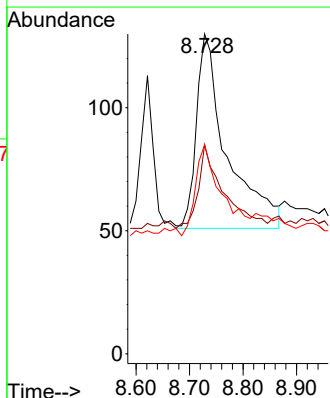
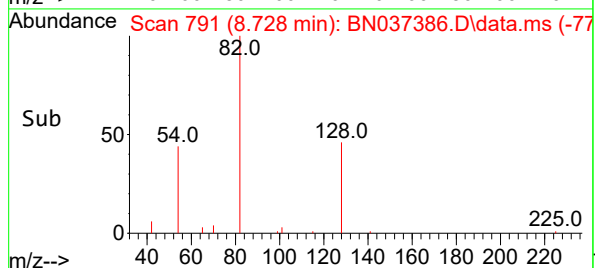
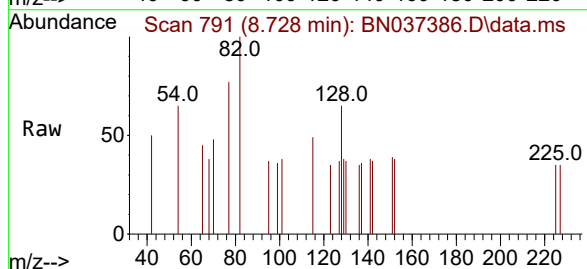
Manual Integrations
APPROVED

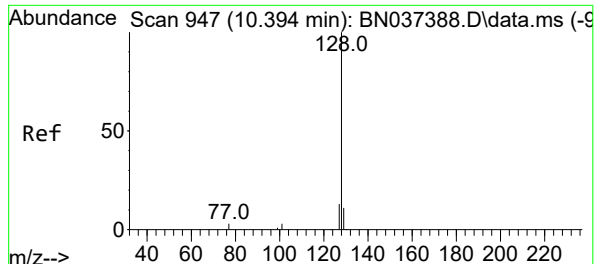
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#8
Nitrobenzene-d5
Concen: 0.085 ng m
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 82 Resp: 312
Ion Ratio Lower Upper
82 100
128 65.4 34.0 51.0#
54 65.4 37.7 56.5#





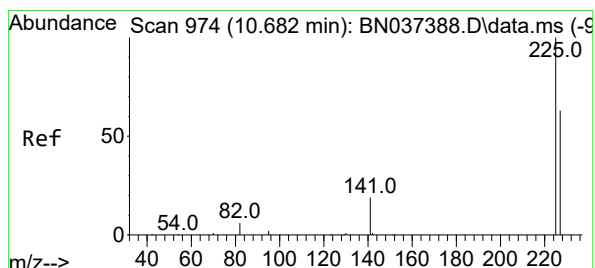
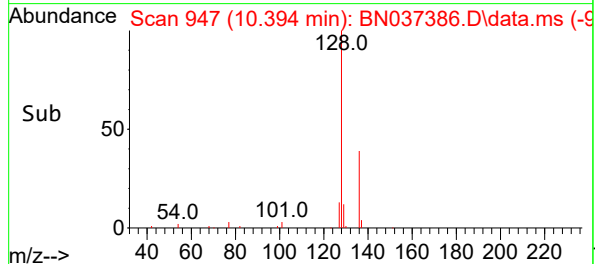
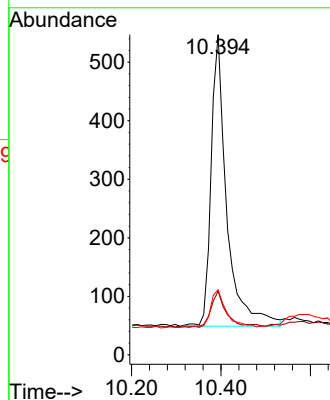
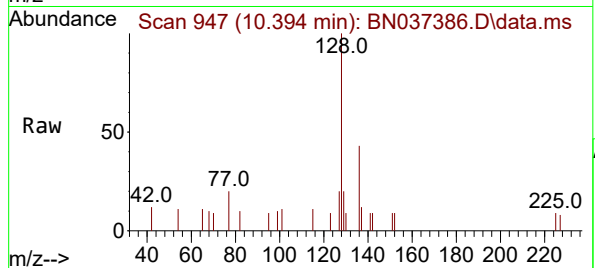
#9
Naphthalene
Concen: 0.101 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1200
Ion Ratio Lower Upper
128 100
129 19.9 10.4 15.6
127 20.3 12.2 18.4

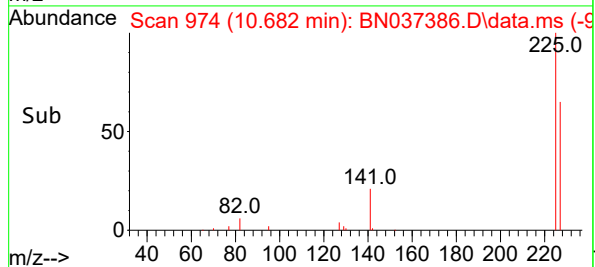
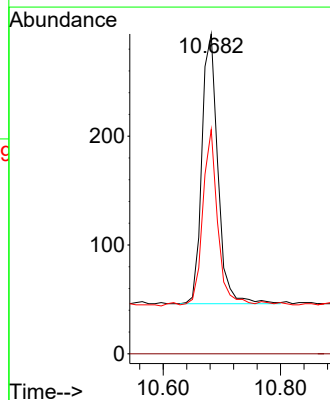
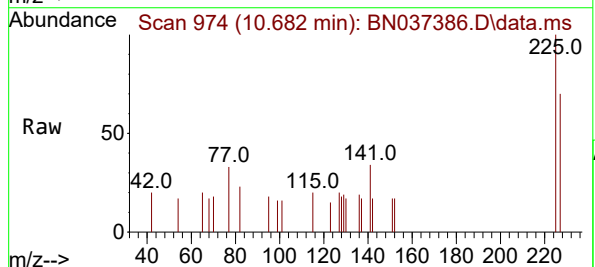
Manual Integrations
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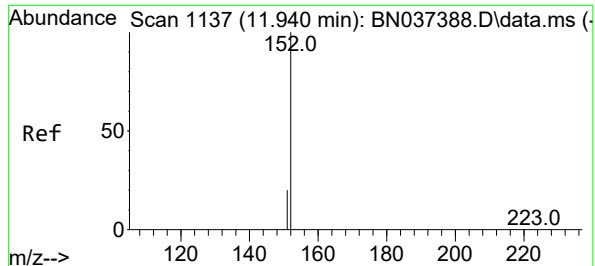
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#10
Hexachlorobutadiene
Concen: 0.100 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

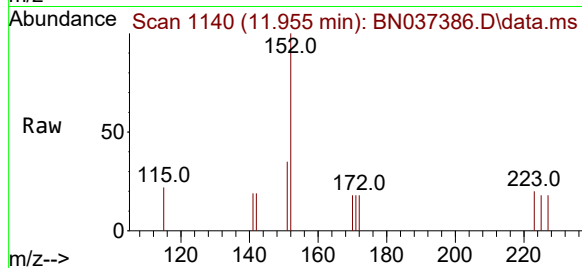
Tgt Ion:225 Resp: 471
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 60.7 49.9 74.9





#11
2-Methylnaphthalene-d10
Concen: 0.086 ng
RT: 11.955 min Scan# 1137
Delta R.T. 0.015 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

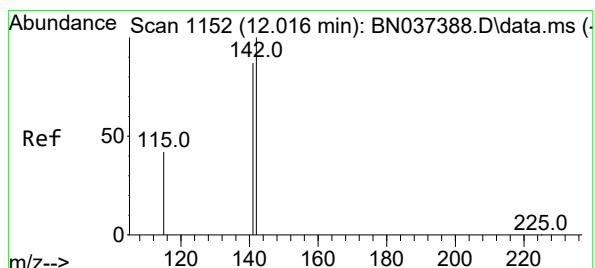
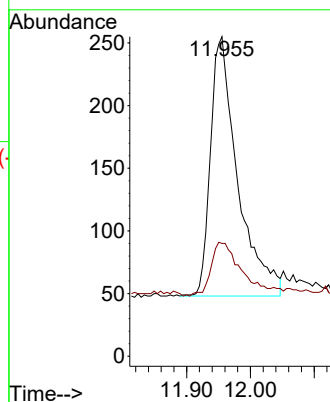
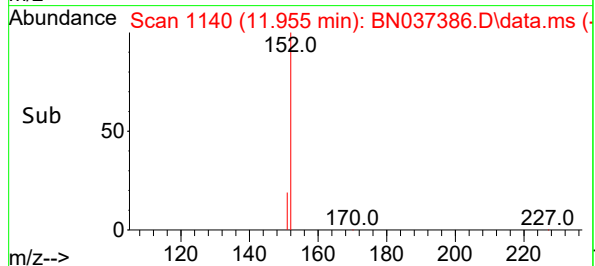
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 61
Ion Ratio Lower Upper
152 100
151 22.9 18.4 27.6

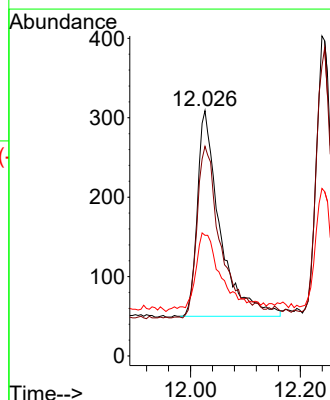
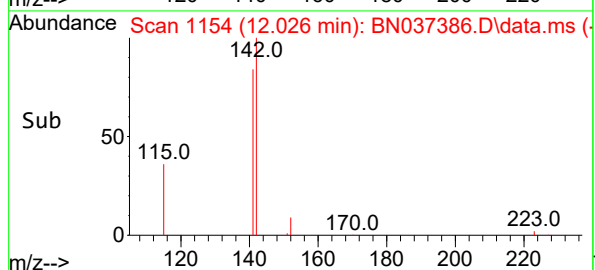
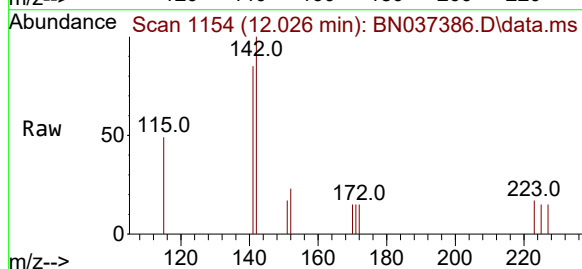
Manual Integrations
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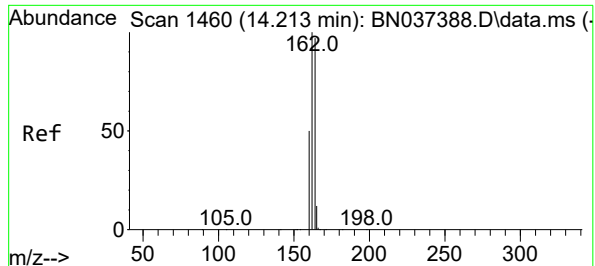
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

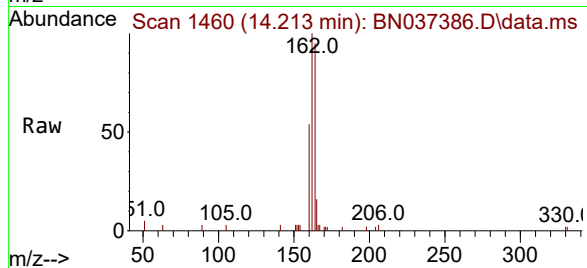
Tgt Ion:142 Resp: 735
Ion Ratio Lower Upper
142 100
141 85.4 70.1 105.1
115 49.2 35.8 53.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

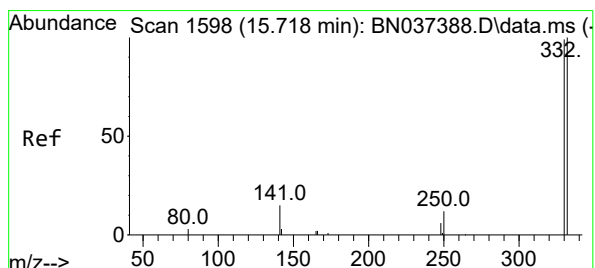
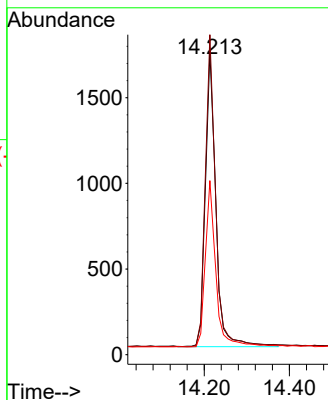
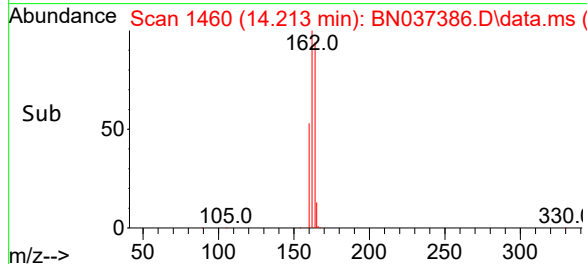
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



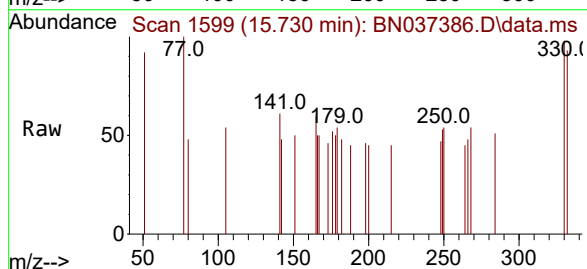
Tgt Ion:164 Resp: 294.5
Ion Ratio Lower Upper
164 100
162 105.7 82.6 123.8
160 57.5 42.2 63.2

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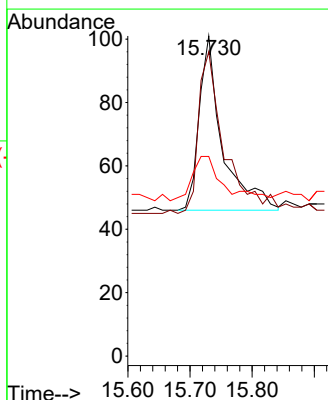
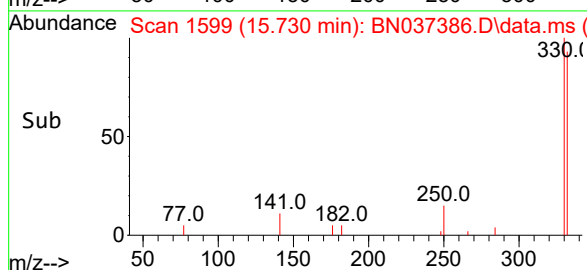
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

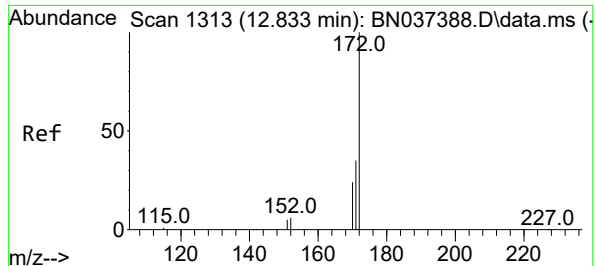


#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41



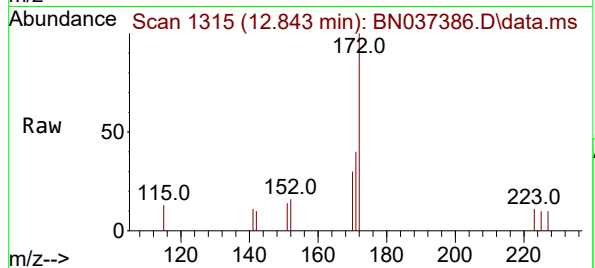
Tgt Ion:330 Resp: 143
Ion Ratio Lower Upper
330 100
332 107.7 77.8 116.8
141 33.6 24.0 36.0





#15
2-Fluorobiphenyl
Concen: 0.090 ng
RT: 12.843 min Scan# 1140
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

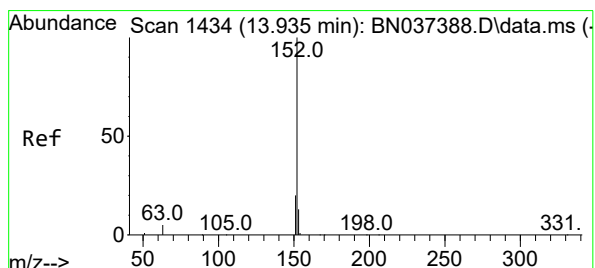
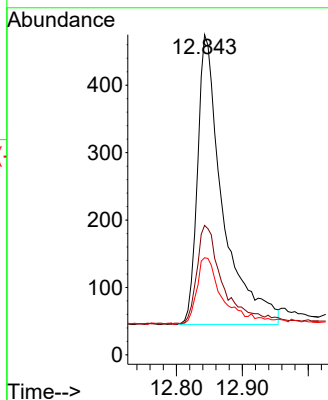
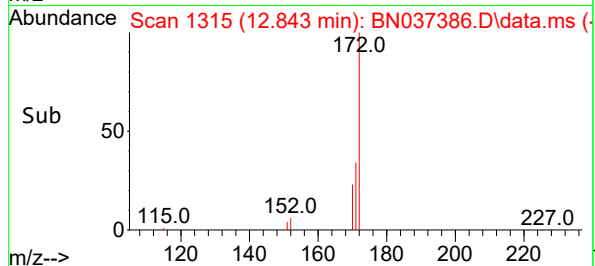
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:172 Resp: 1140
Ion Ratio Lower Upper
172 100
171 40.4 28.8 43.2
170 30.3 20.3 30.5

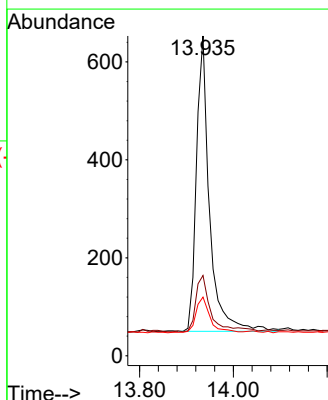
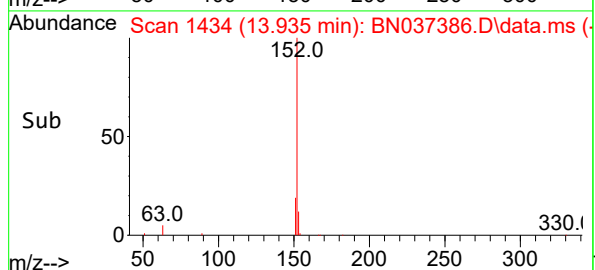
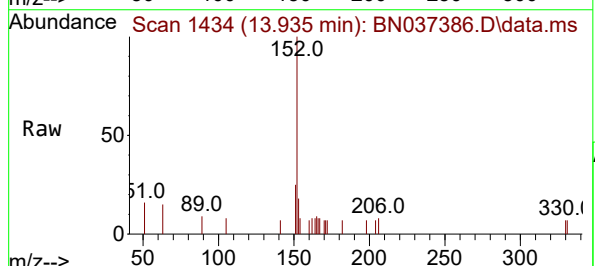
Manual Integrations
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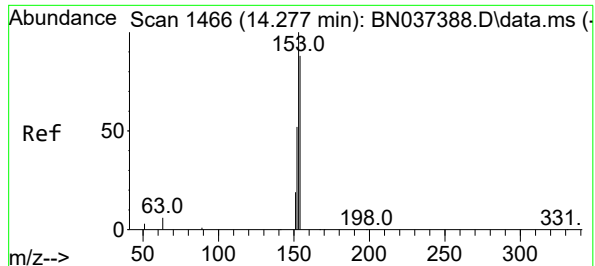
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:152 Resp: 1167
Ion Ratio Lower Upper
152 100
151 21.9 15.8 23.6
153 13.1 10.3 15.5





#17

Acenaphthene

Concen: 0.095 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

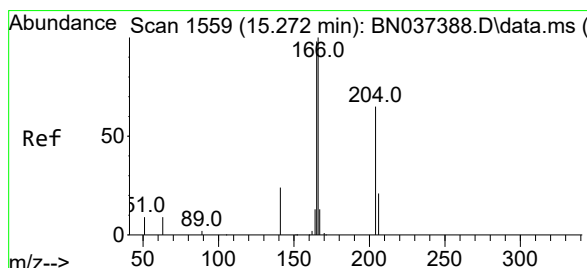
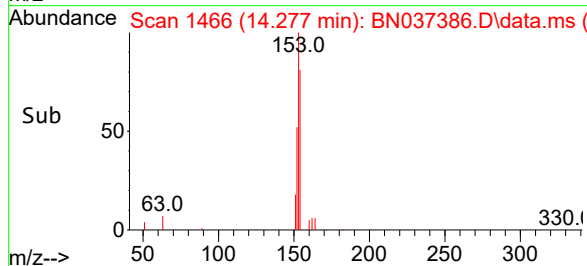
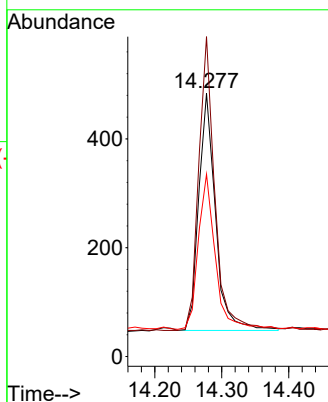
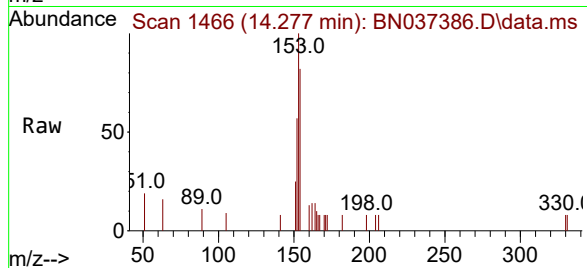
Tgt Ion:154 Resp: 758
Ion Ratio Lower Upper
154 100
153 119.4 94.6 141.8
152 66.6 50.2 75.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 06/27/2025



#18

Fluorene

Concen: 0.094 ng

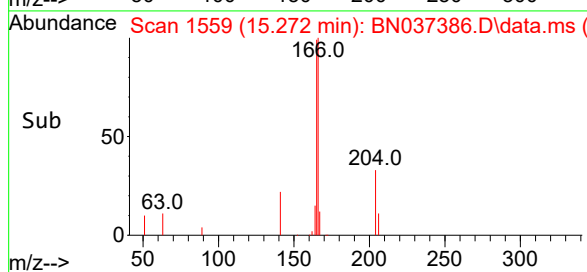
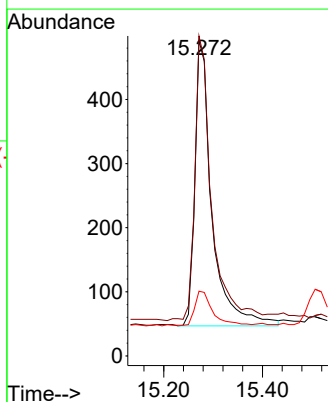
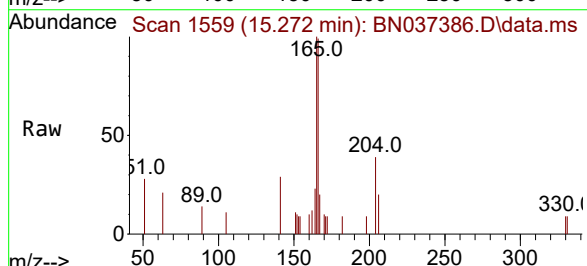
RT: 15.272 min Scan# 1559

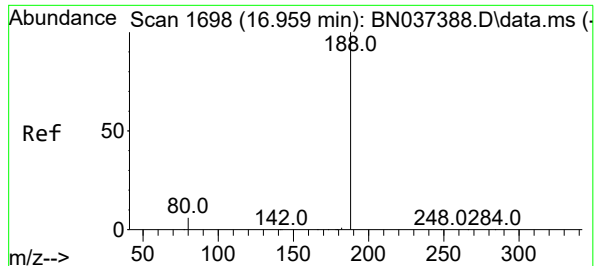
Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Tgt Ion:166 Resp: 1063
Ion Ratio Lower Upper
166 100
165 99.1 79.4 119.2
167 12.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.012 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

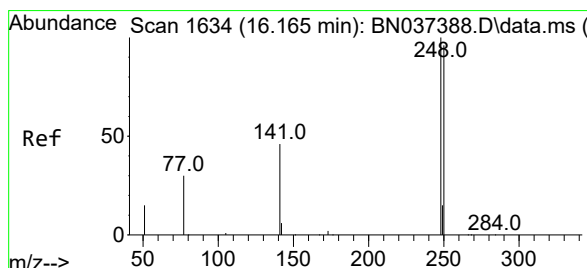
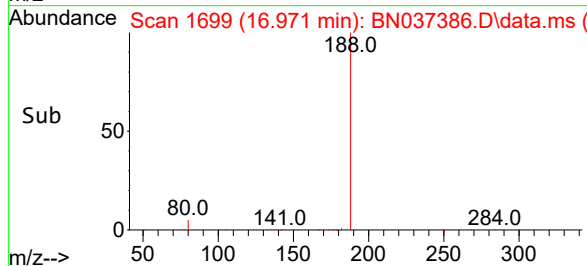
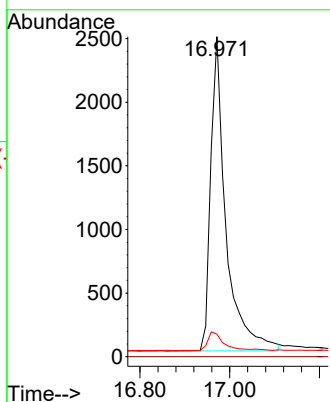
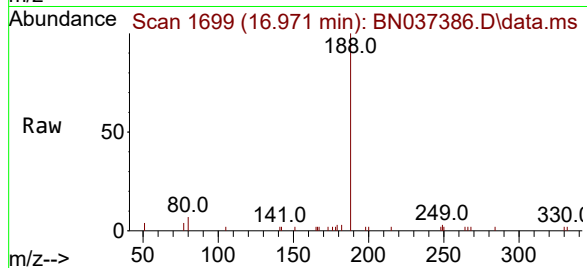
SSTDICC0.1

Tgt Ion:	188	Resp:	581
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.1	6.2	9.4

Manual Integrations
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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#21

4-Bromophenyl-phenylether

Concen: 0.093 ng

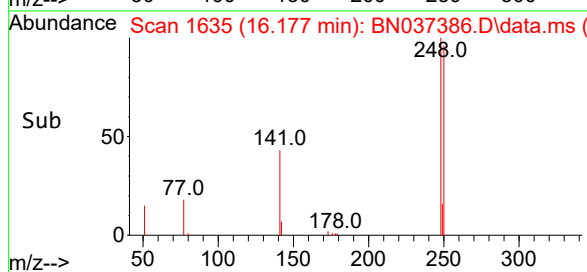
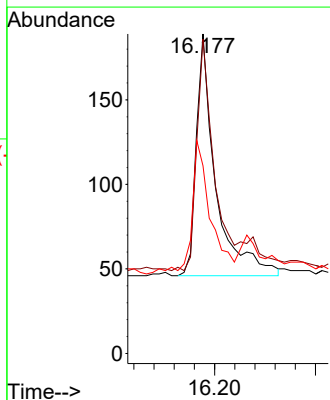
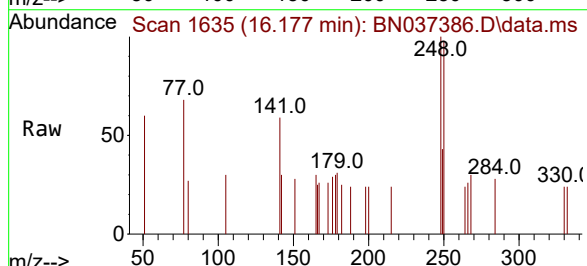
RT: 16.177 min Scan# 1635

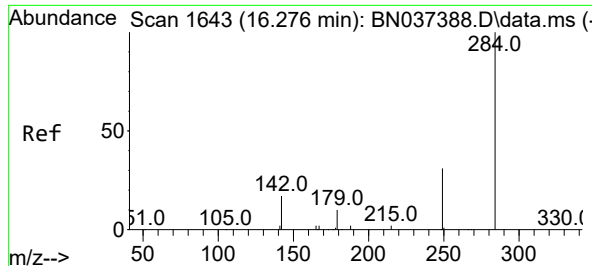
Delta R.T. 0.012 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Tgt Ion:	248	Resp:	383
Ion Ratio	Lower	Upper	
248	100		
250	98.4	77.0	115.4
141	58.7	38.7	58.1





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.276 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

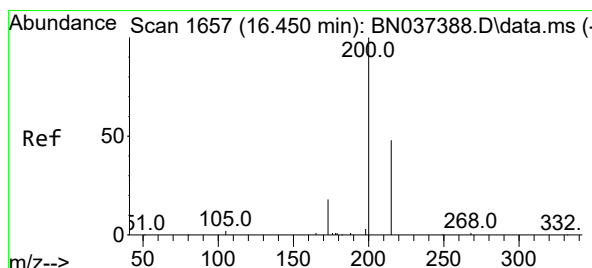
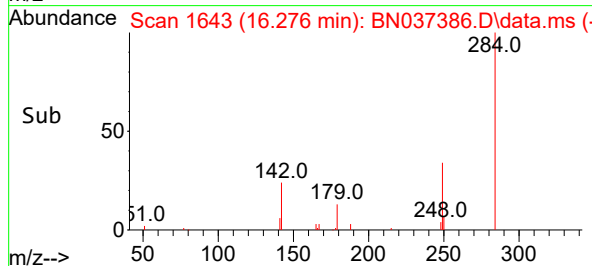
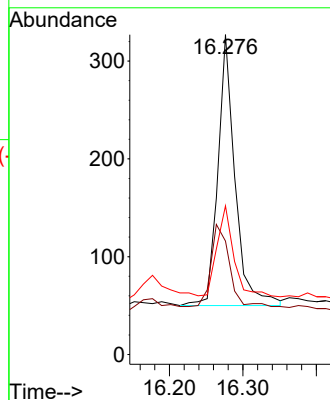
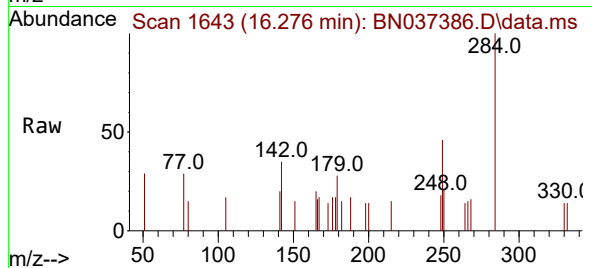
SSTDICC0.1

Tgt Ion:	284	Resp:	450
Ion Ratio	Lower	Upper	
284	100		
142	34.4	27.2	40.8
249	35.1	26.7	40.1

Manual Integrations
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Supervised By :Jagrut Upadhyay 06/27/2025



#23

Atrazine

Concen: 0.090 ng

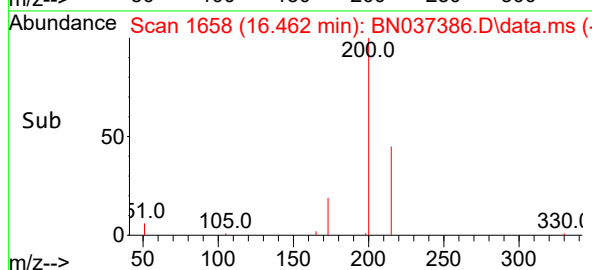
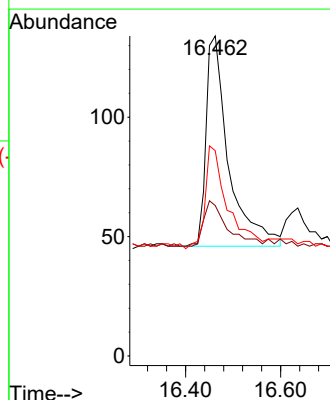
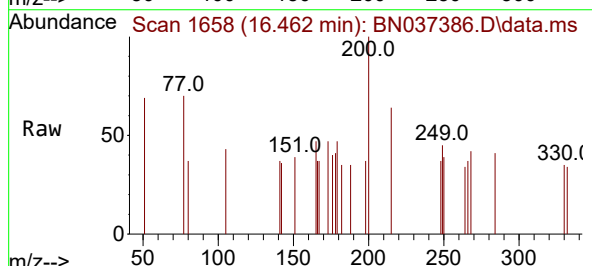
RT: 16.462 min Scan# 1658

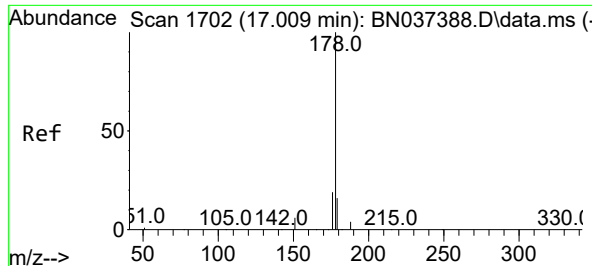
Delta R.T. 0.012 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

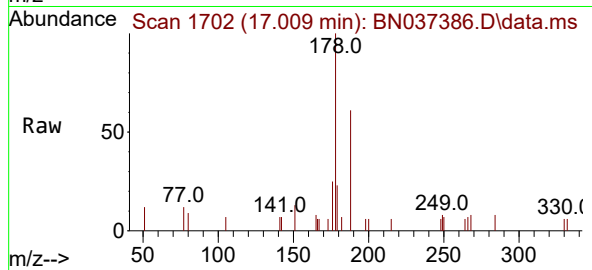
Tgt Ion:	200	Resp:	291
Ion Ratio	Lower	Upper	
200	100		
173	47.0	19.0	28.6#
215	64.2	41.3	61.9#





#25
Phenanthrene
Concen: 0.094 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

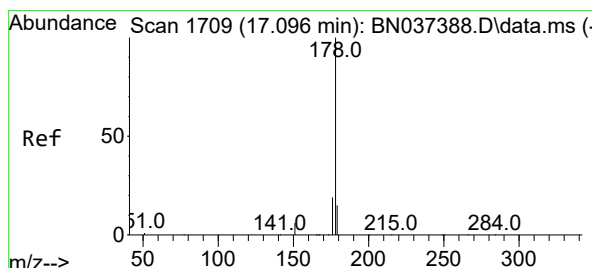
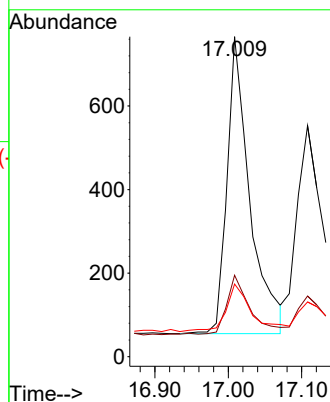
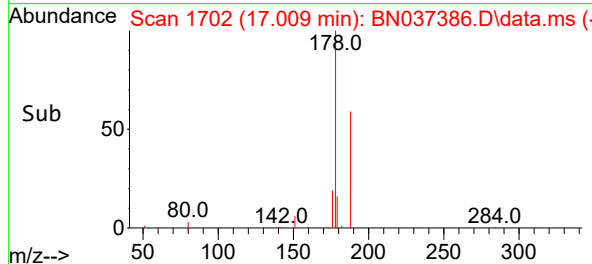
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



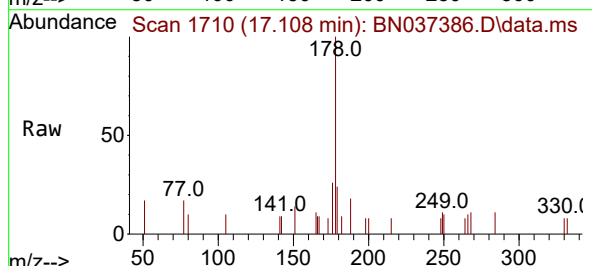
Tgt Ion:178 Resp: 1534
Ion Ratio Lower Upper
178 100
176 20.5 15.6 23.4
179 17.4 12.8 19.2

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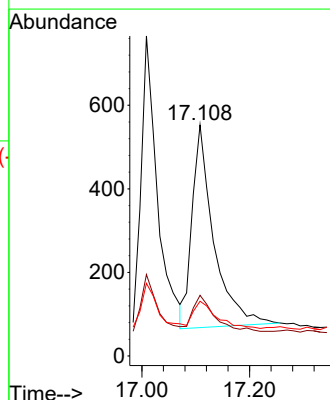
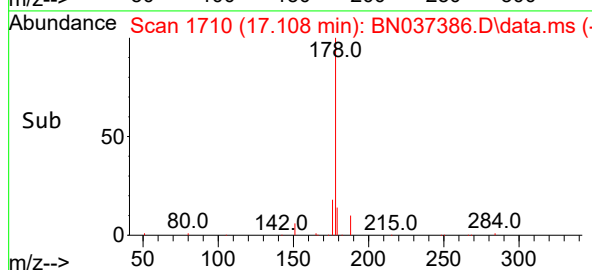
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

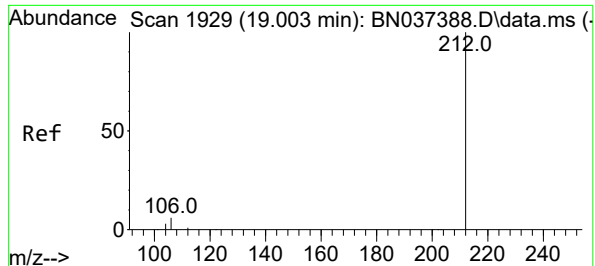


#26
Anthracene
Concen: 0.090 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41



Tgt Ion:178 Resp: 1358
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.094 ng

RT: 19.008 min Scan# 1930

Delta R.T. 0.005 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

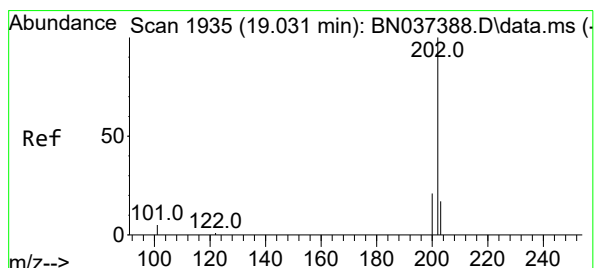
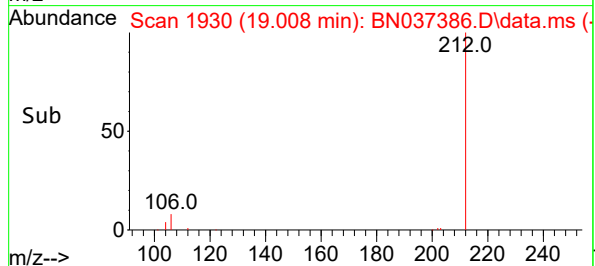
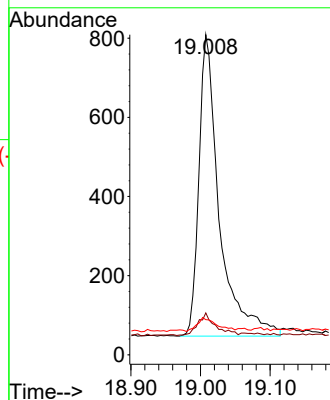
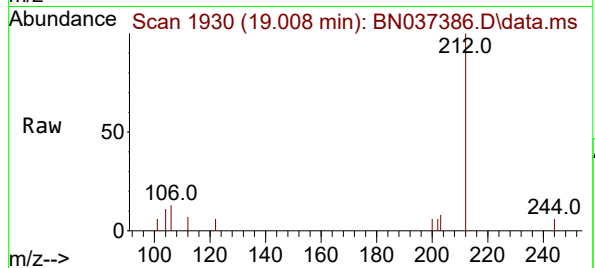
Tgt Ion:	212	Resp:	155
Ion Ratio	Lower	Upper	
212	100		
106	6.3	4.5	6.7
104	4.4	2.7	4.1

Manual Integrations

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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#28

Fluoranthene

Concen: 0.096 ng

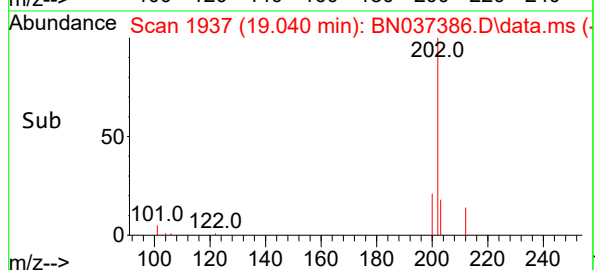
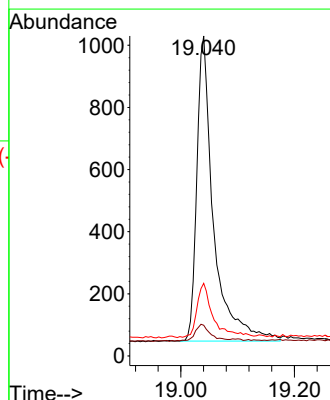
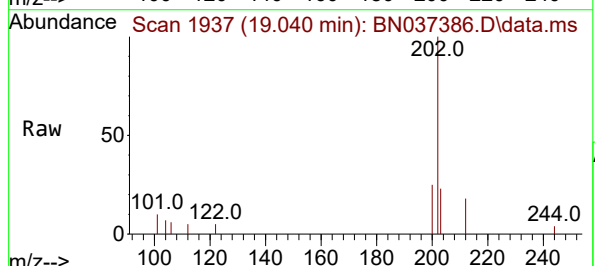
RT: 19.040 min Scan# 1937

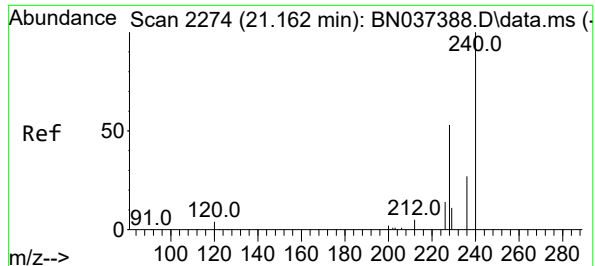
Delta R.T. 0.009 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Tgt Ion:	202	Resp:	2001
Ion Ratio	Lower	Upper	
202	100		
101	5.3	3.8	5.6
203	17.4	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

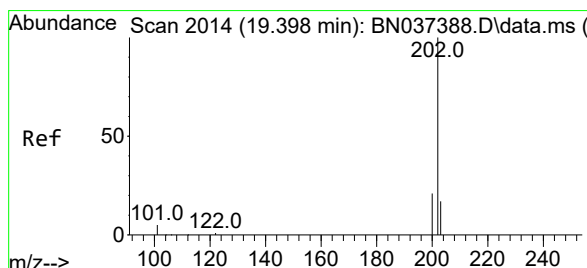
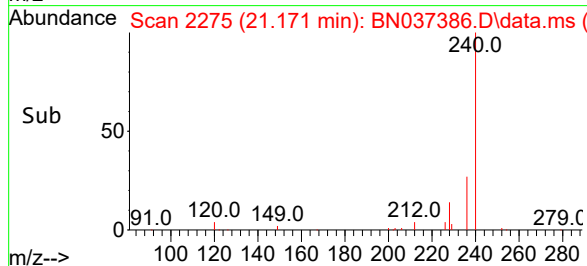
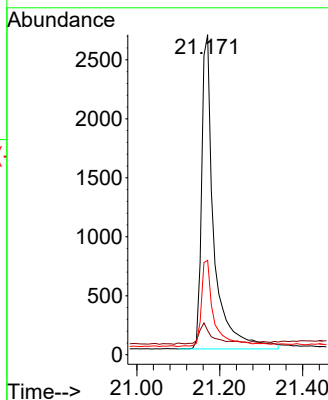
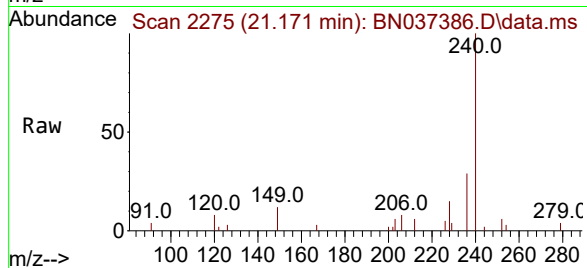
Tgt Ion:240 Resp: 5498

Ion	Ratio	Lower	Upper
240	100		
120	7.6	5.3	7.9
236	29.5	22.7	34.1

Manual Integrations
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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#30

Pyrene

Concen: 0.096 ng

RT: 19.402 min Scan# 2015

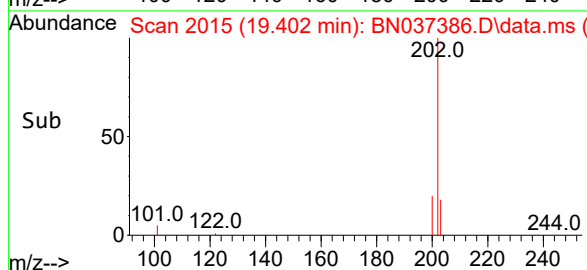
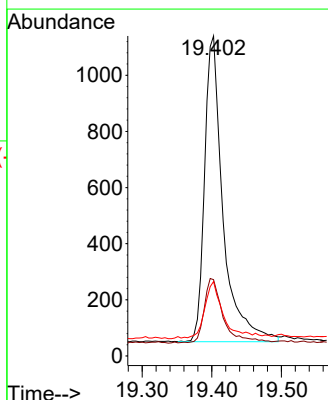
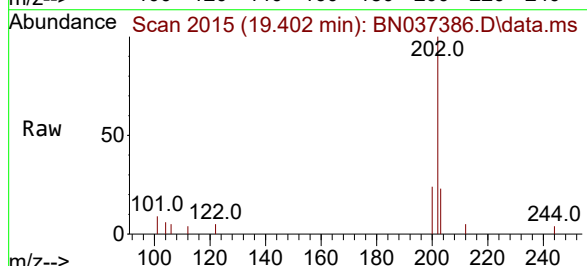
Delta R.T. 0.005 min

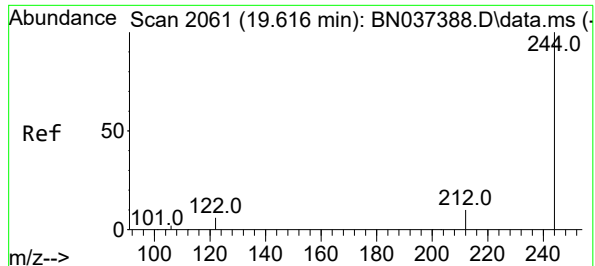
Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Tgt Ion:202 Resp: 2006

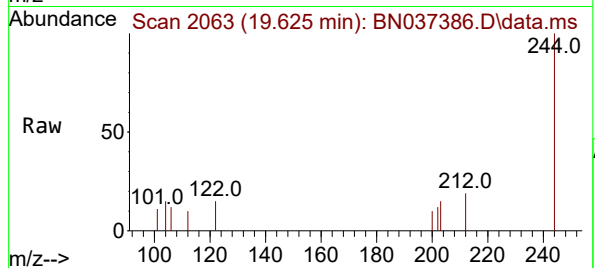
Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.5	24.7
203	18.0	14.2	21.2





#31
Terphenyl-d14
Concen: 0.094 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

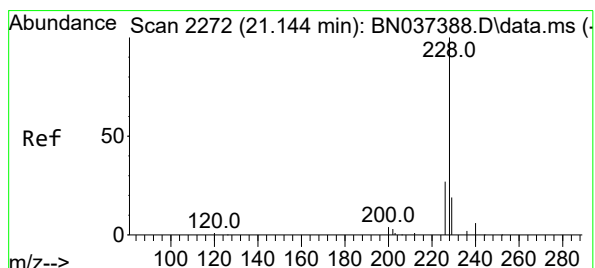
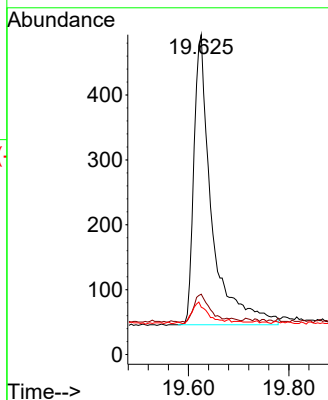
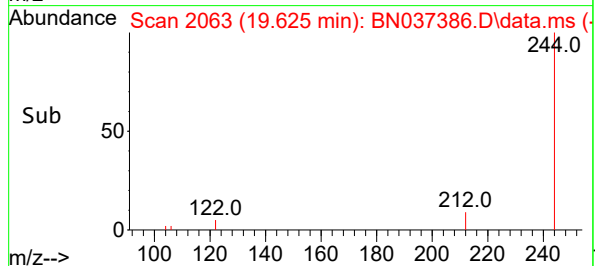
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:244 Resp: 1099
Ion Ratio Lower Upper
244 100
212 18.9 9.1 13.7
122 14.8 6.3 9.5

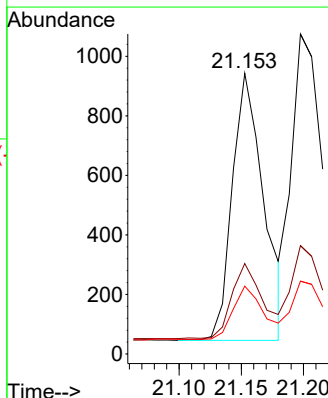
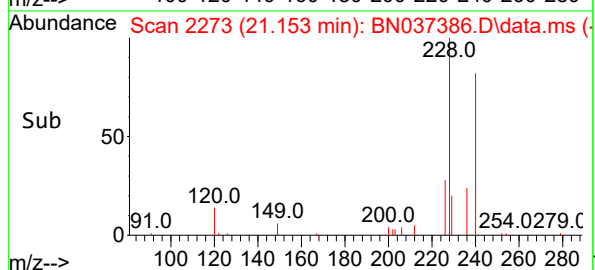
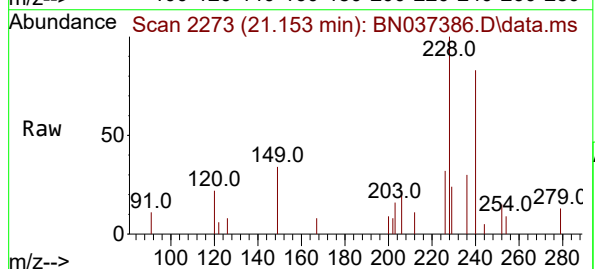
Manual Integrations
APPROVED

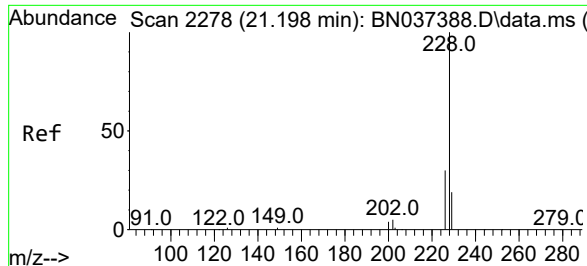
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

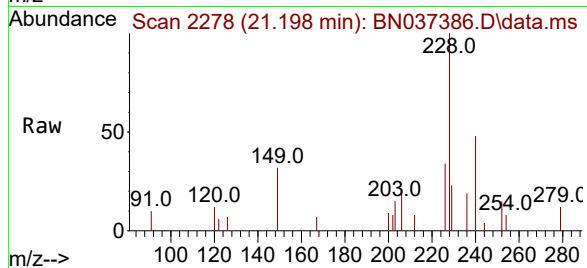
Tgt Ion:228 Resp: 1579
Ion Ratio Lower Upper
228 100
226 32.2 22.6 34.0
229 24.2 16.2 24.2





#33
Chrysene
Concen: 0.105 ng
RT: 21.198 min Scan# 21198
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

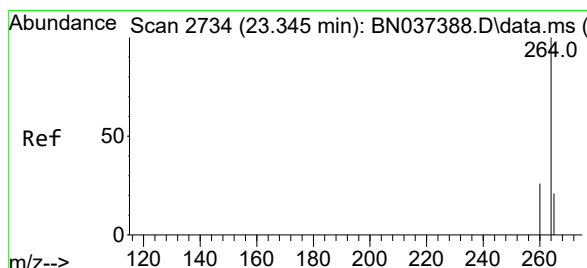
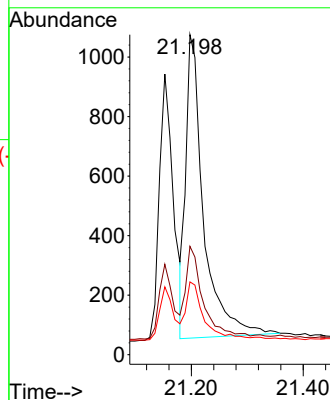
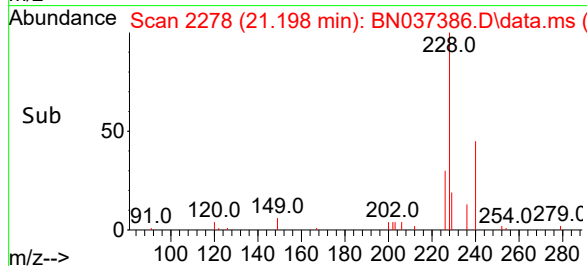
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



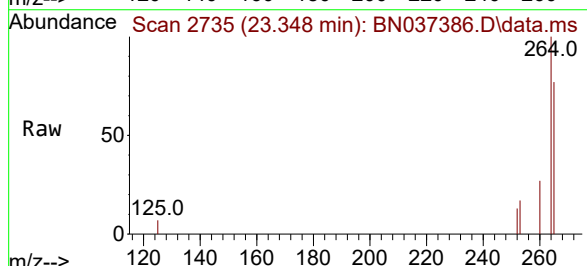
Tgt Ion:228 Resp: 224
Ion Ratio Lower Upper
228 100
226 33.9 24.5 36.7
229 22.8 16.1 24.1

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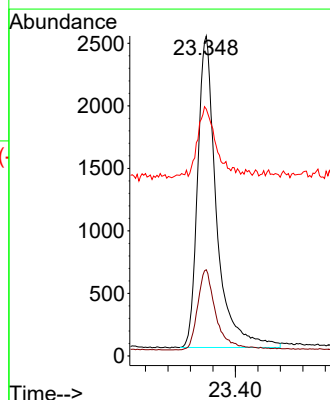
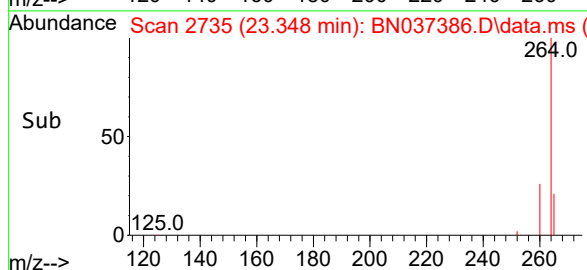
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

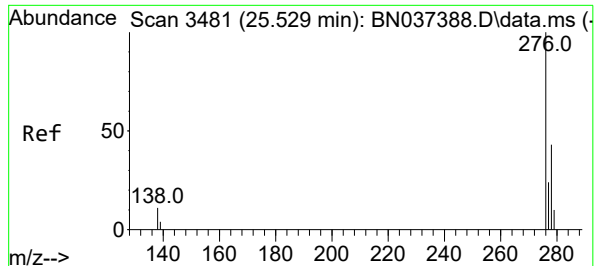


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2735
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41



Tgt Ion:264 Resp: 5798
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.0
265 77.1 56.2 84.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.088 ng

RT: 25.535 min Scan# 3481

Delta R.T. 0.006 min

Lab File: BN037386.D

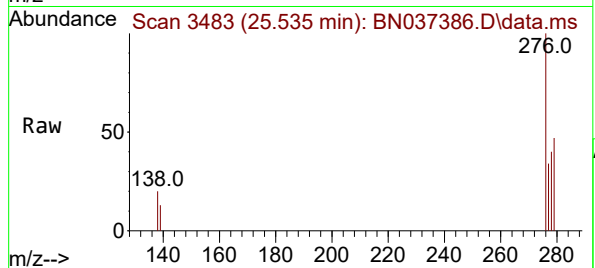
Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 2150

Ion Ratio Lower Upper

276 100

138 4.1 8.5 12.7

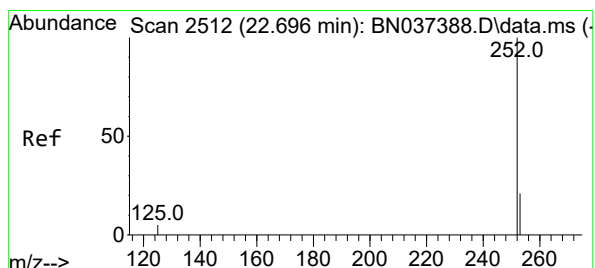
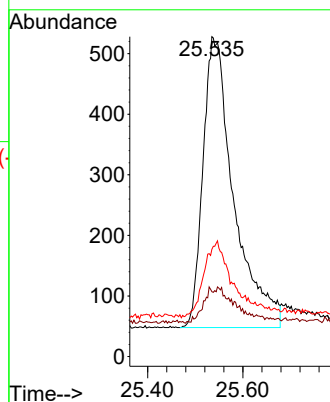
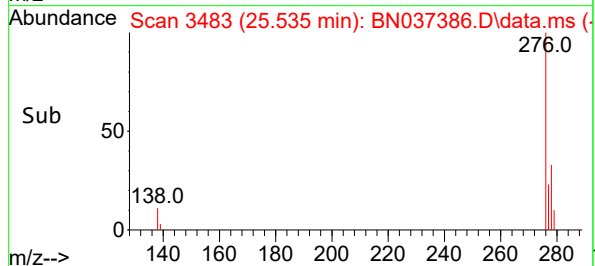
277 21.2 19.7 29.5

Manual Integrations

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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#37

Benzo(b)fluoranthene

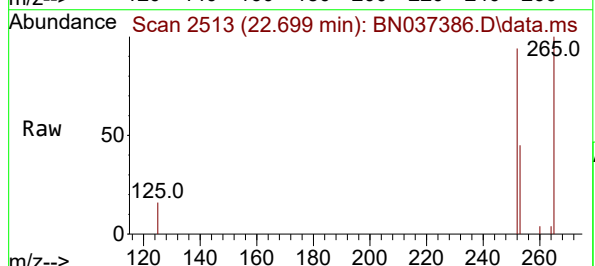
Concen: 0.094 ng

RT: 22.699 min Scan# 2513

Delta R.T. 0.003 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41



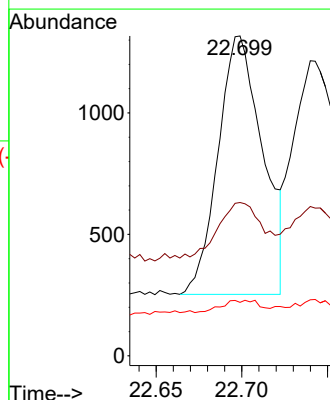
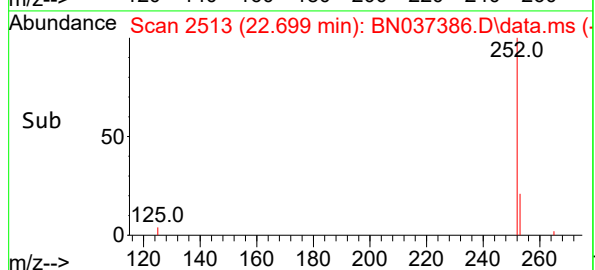
Tgt Ion:252 Resp: 1927

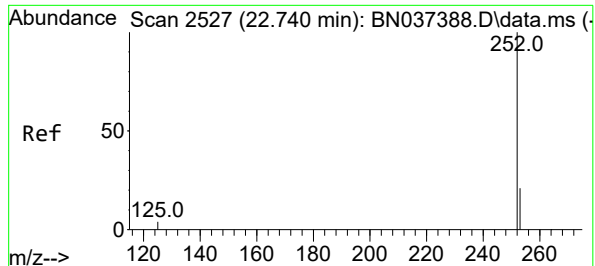
Ion Ratio Lower Upper

252 100

253 47.9 22.8 34.2#

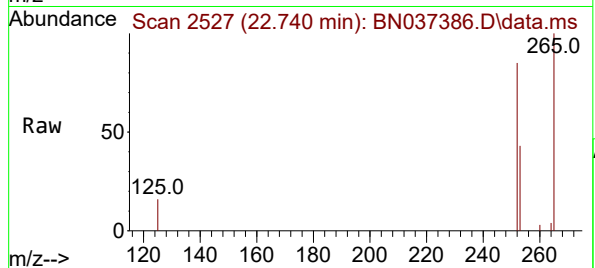
125 16.7 6.2 9.4#





#38
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 22.740 min Scan# 210
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

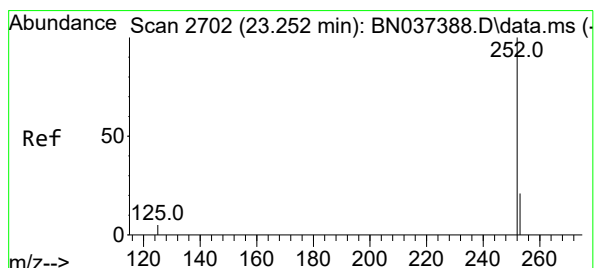
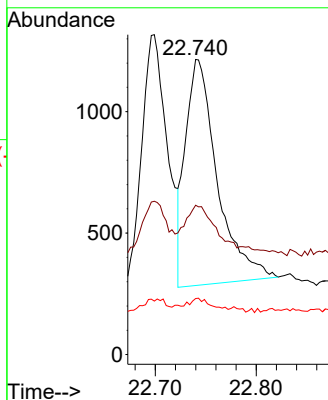
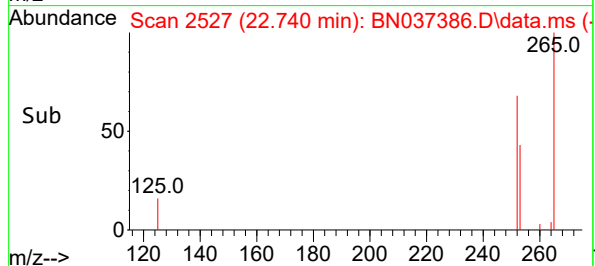
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1



Tgt Ion:252 Resp: 204
Ion Ratio Lower Upper
252 100
253 50.6 23.2 34.8
125 19.0 6.0 9.0

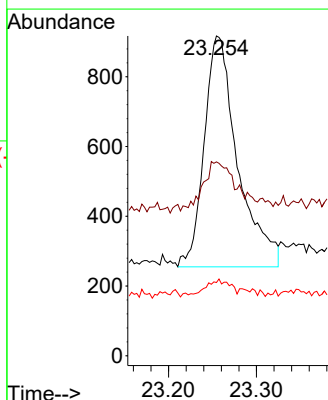
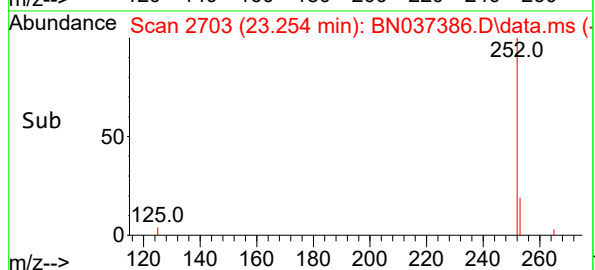
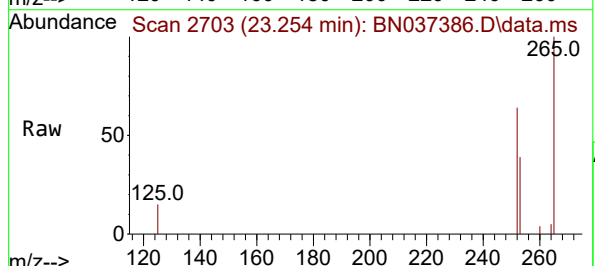
Manual Integrations
APPROVED

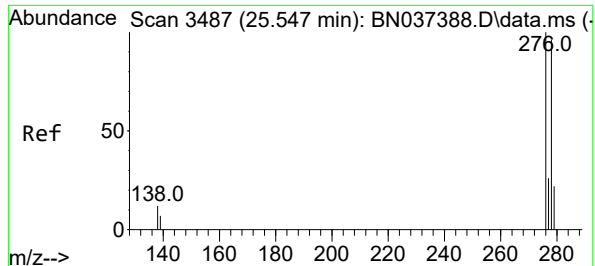
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#39
Benzo(a)pyrene
Concen: 0.097 ng
RT: 23.254 min Scan# 2703
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:252 Resp: 1755
Ion Ratio Lower Upper
252 100
253 60.6 25.6 38.4#
125 22.9 7.5 11.3#





#40

Dibenzo(a,h)anthracene

Concen: 0.081 ng

RT: 25.567 min Scan# 3487

Delta R.T. 0.020 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

Tgt Ion:278 Resp: 152

Ion Ratio Lower Upper

278 100

139 22.1 8.5 12.7

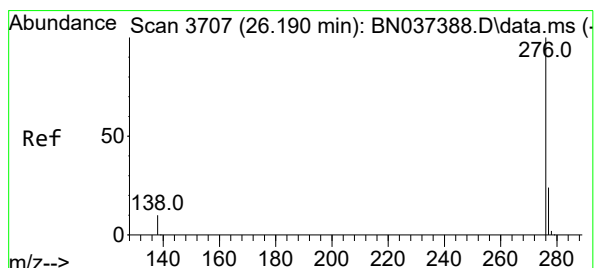
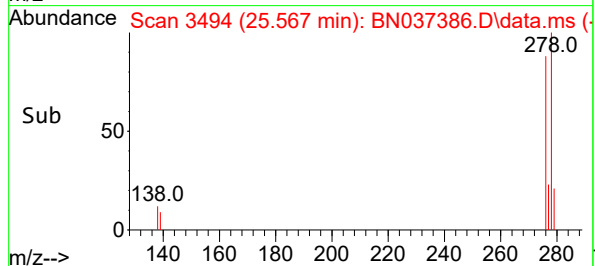
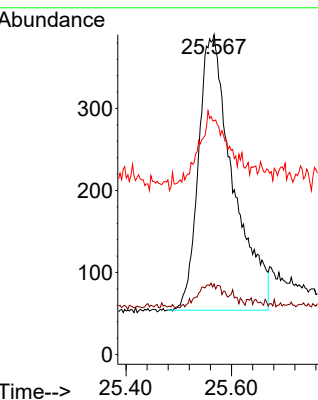
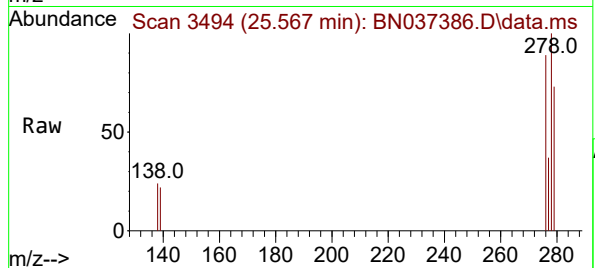
279 73.1 27.5 41.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#41

Benzo(g,h,i)perylene

Concen: 0.092 ng

RT: 26.193 min Scan# 3708

Delta R.T. 0.003 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

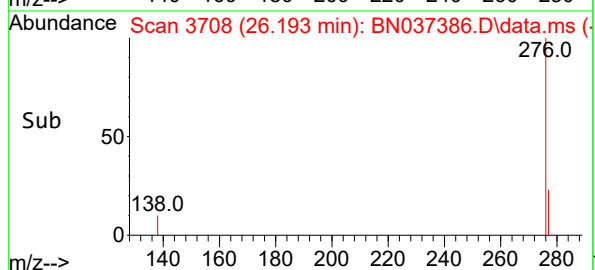
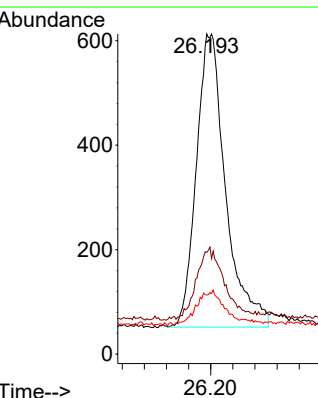
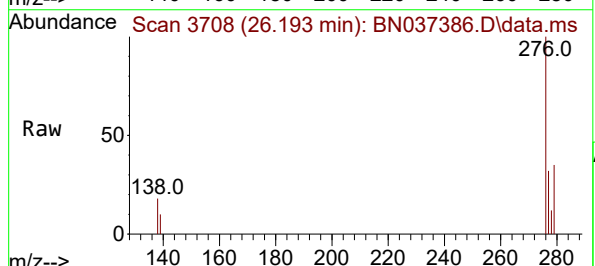
Tgt Ion:276 Resp: 2066

Ion Ratio Lower Upper

276 100

277 31.8 21.0 31.4#

138 18.4 9.6 14.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037387.D
 Acq On : 26 Jun 2025 11:17
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jun 26 16:05:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:05:06 2025
 Response via : Initial Calibration

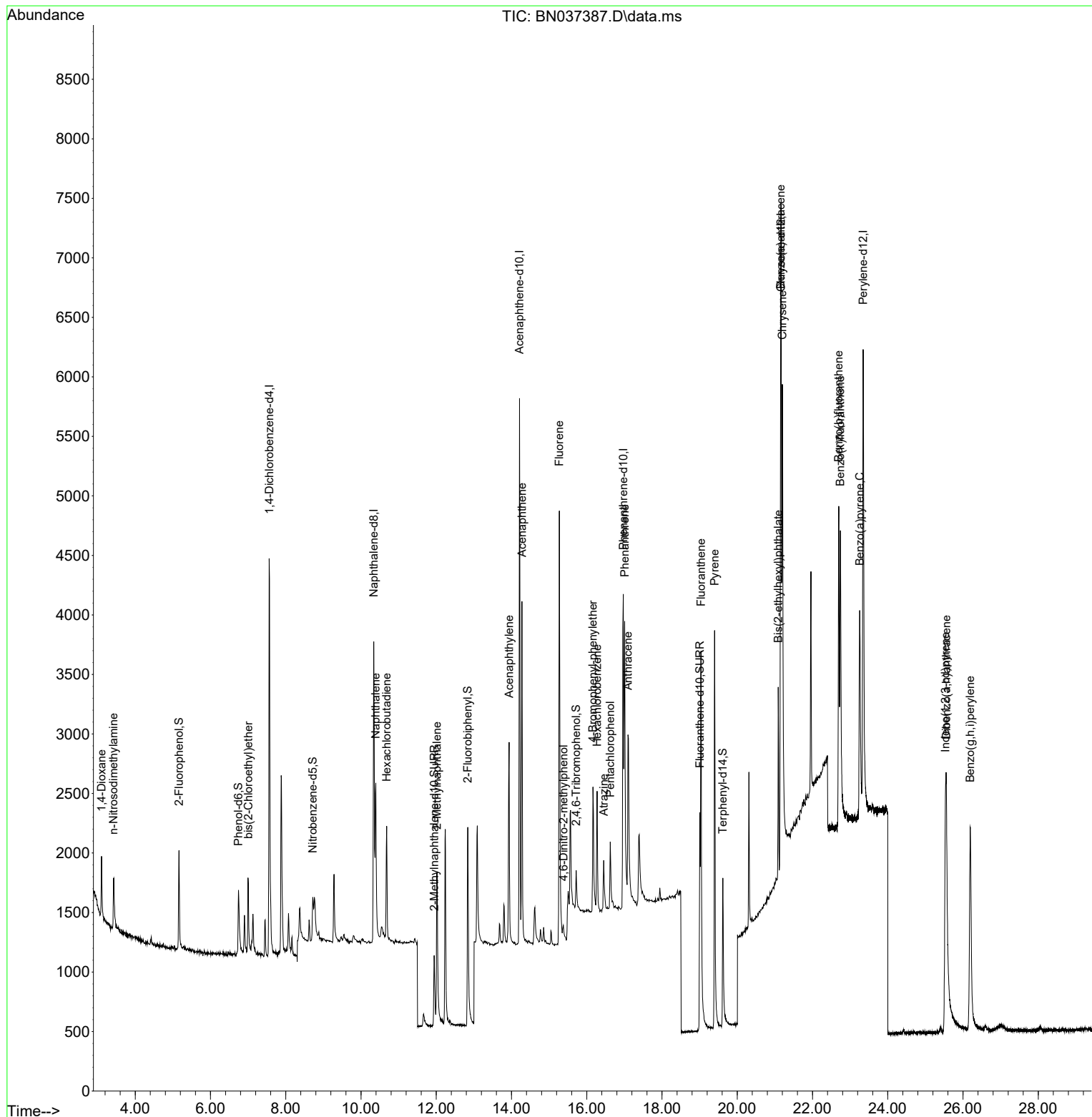
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	1946	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4021	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2635	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5416	0.400	ng	# 0.01
29) Chrysene-d12	21.162	240	5370	0.400	ng	# 0.00
35) Perylene-d12	23.345	264	5780	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	757	0.202	ng	0.00
5) Phenol-d6	6.744	99	687	0.177	ng	0.00
8) Nitrobenzene-d5	8.717	82	565	0.175	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	1139	0.183	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	273	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	2182	0.192	ng	0.00
27) Fluoranthene-d10	19.008	212	3080	0.198	ng	0.00
31) Terphenyl-d14	19.616	244	2132	0.186	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	457	0.248	ng	# 88
3) n-Nitrosodimethylamine	3.422	42	367	0.201	ng	99
6) bis(2-Chloroethyl)ether	7.004	93	643	0.186	ng	98
9) Naphthalene	10.394	128	2012	0.194	ng	94
10) Hexachlorobutadiene	10.682	225	824	0.201	ng	# 98
12) 2-Methylnaphthalene	12.016	142	1337	0.188	ng	98
16) Acenaphthylene	13.935	152	2108	0.193	ng	99
17) Acenaphthene	14.277	154	1353	0.190	ng	99
18) Fluorene	15.272	166	1867	0.185	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	228	0.164	ng	# 46
21) 4-Bromophenyl-phenylether	16.165	248	684	0.179	ng	# 92
22) Hexachlorobenzene	16.276	284	809	0.197	ng	98
23) Atrazine	16.450	200	563	0.186	ng	# 89
24) Pentachlorophenol	16.624	266	445	0.201	ng	94
25) Phenanthrene	17.009	178	2890	0.189	ng	99
26) Anthracene	17.096	178	2632	0.188	ng	98
28) Fluoranthene	19.035	202	3786	0.194	ng	99
30) Pyrene	19.398	202	3891	0.191	ng	99
32) Benzo(a)anthracene	21.153	228	3228	0.191	ng	99
33) Chrysene	21.198	228	4224	0.202	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	1366	0.204	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.532	276	4378	0.180	ng	# 95
37) Benzo(b)fluoranthene	22.696	252	3772	0.185	ng	# 88
38) Benzo(k)fluoranthene	22.740	252	4013	0.184	ng	# 87
39) Benzo(a)pyrene	23.254	252	3352	0.185	ng	# 84
40) Dibenzo(a,h)anthracene	25.555	278	3290	0.176	ng	# 82
41) Benzo(g,h,i)perylene	26.193	276	4258	0.190	ng	# 95

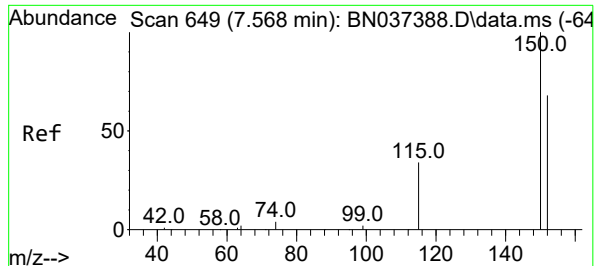
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037387.D
Acq On : 26 Jun 2025 11:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

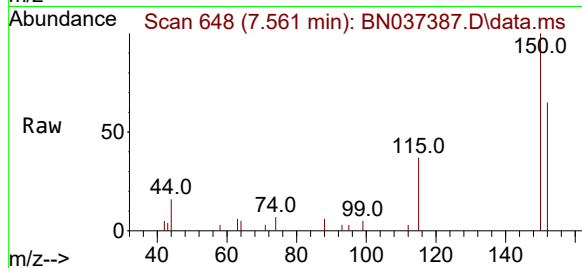
Quant Time: Jun 26 16:05:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:05:06 2025
Response via : Initial Calibration



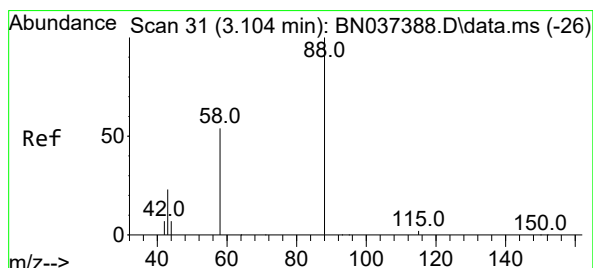
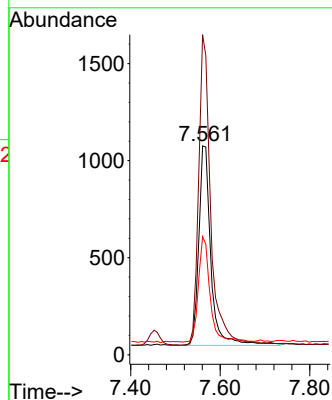
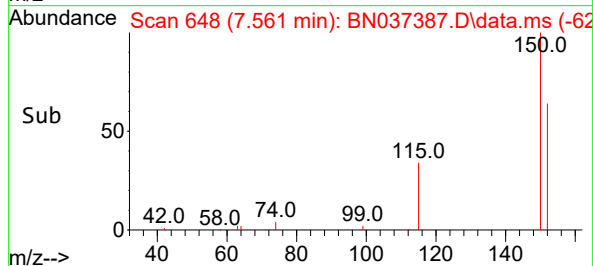


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

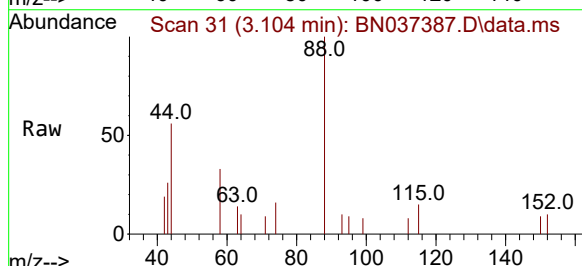
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2



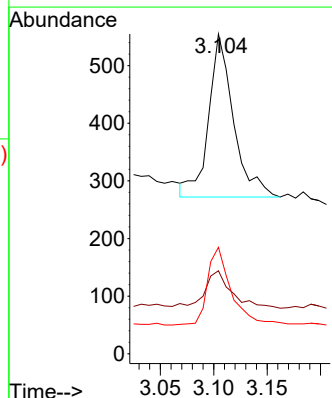
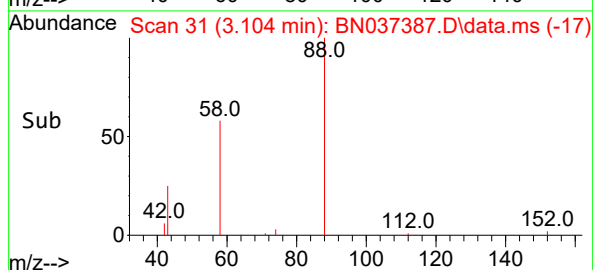
Tgt Ion:152 Resp: 1946
Ion Ratio Lower Upper
152 100
150 153.3 116.2 174.2
115 56.6 42.9 64.3

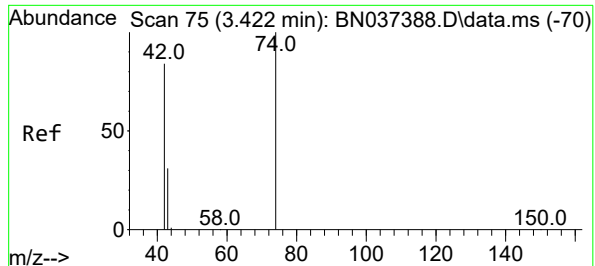


#2
1,4-Dioxane
Concen: 0.248 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17



Tgt Ion: 88 Resp: 457
Ion Ratio Lower Upper
88 100
43 24.9 21.6 32.4
58 45.5 45.9 68.9#

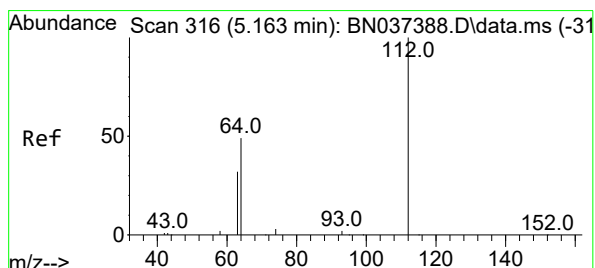
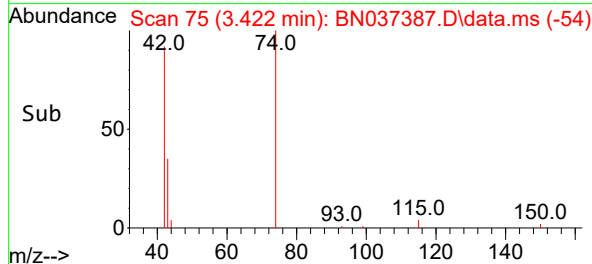
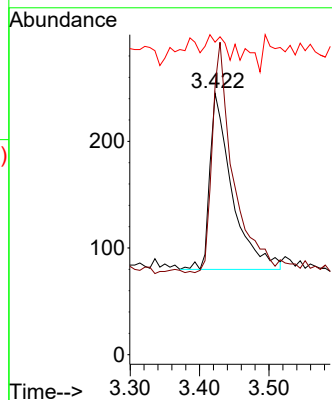
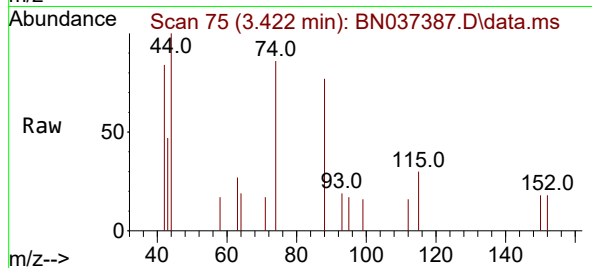




#3
n-Nitrosodimethylamine
Concen: 0.201 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

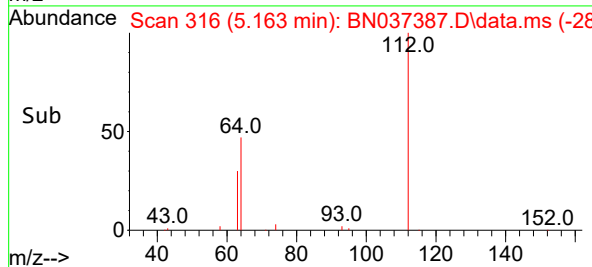
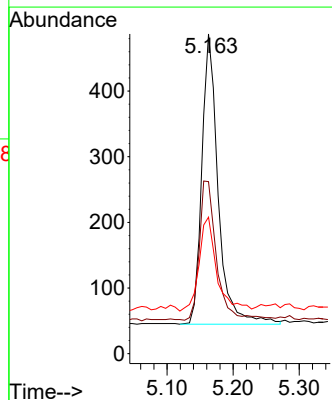
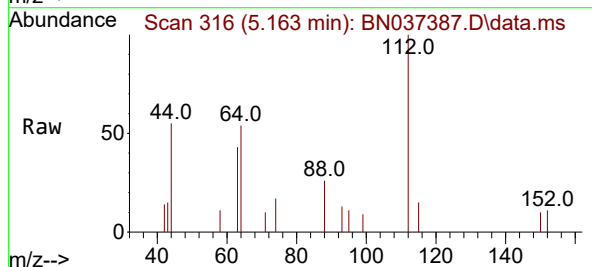
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

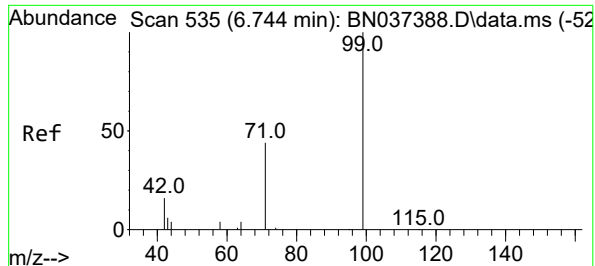
Tgt Ion: 42 Resp: 367
Ion Ratio Lower Upper
42 100
74 123.2 97.8 146.8
44 11.4 8.7 13.1



#4
2-Fluorophenol
Concen: 0.202 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion: 112 Resp: 757
Ion Ratio Lower Upper
112 100
64 51.0 40.3 60.5
63 35.1 26.1 39.1

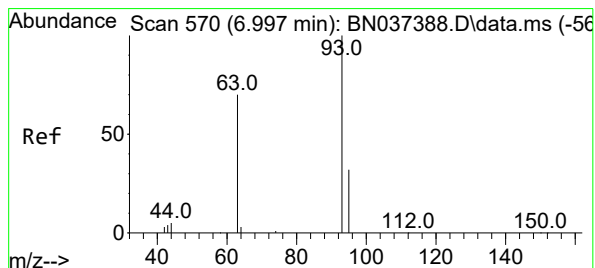
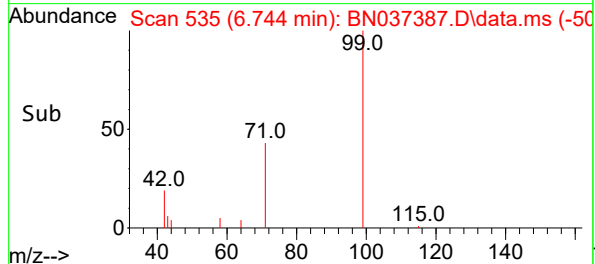
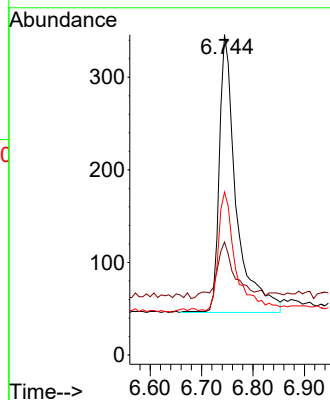
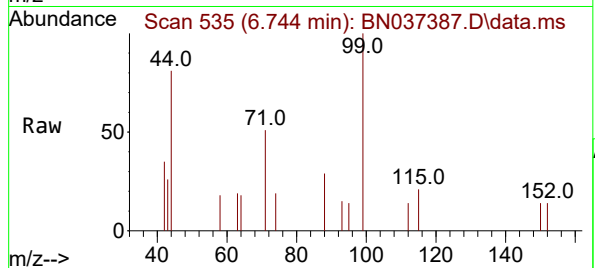




#5
Phenol-d6
Concen: 0.177 ng
RT: 6.744 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

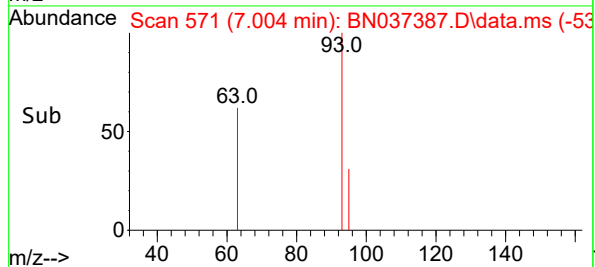
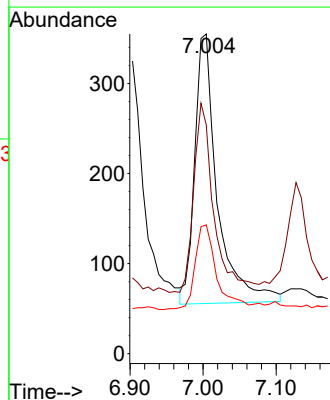
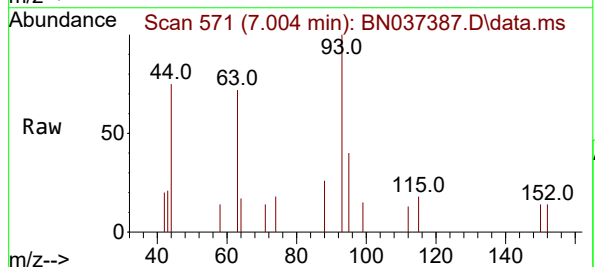
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

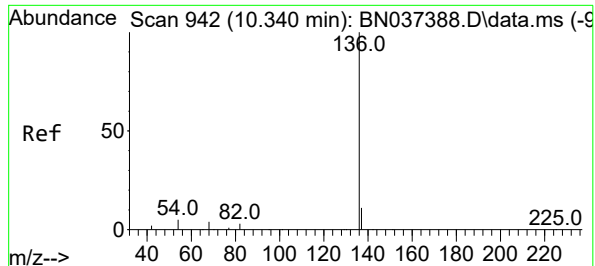
Tgt Ion:	99	Resp:	687
Ion	Ratio	Lower	Upper
99	100		
42	23.0	15.6	23.4
71	44.1	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.186 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:	93	Resp:	643
Ion	Ratio	Lower	Upper
93	100		
63	63.9	49.6	74.4
95	30.2	23.9	35.9

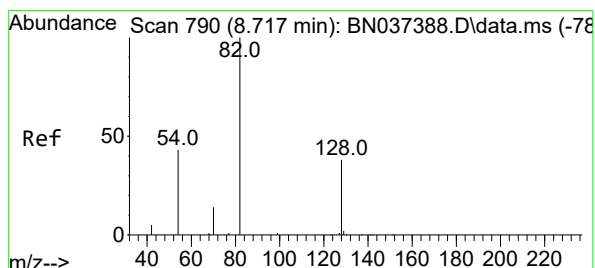
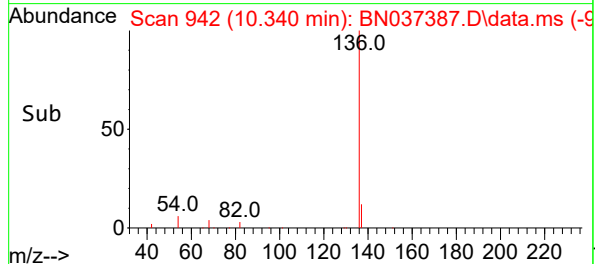
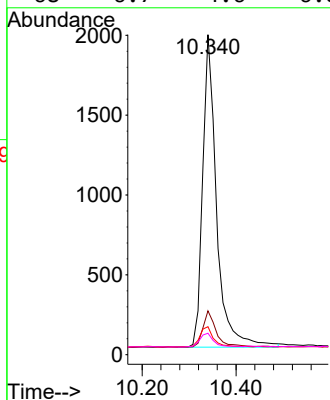
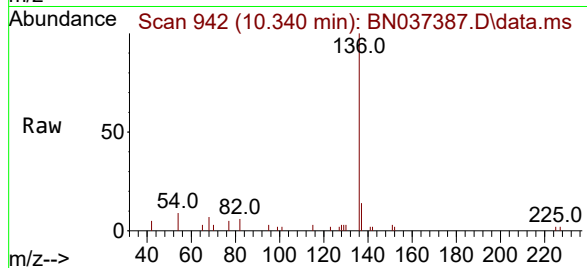




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

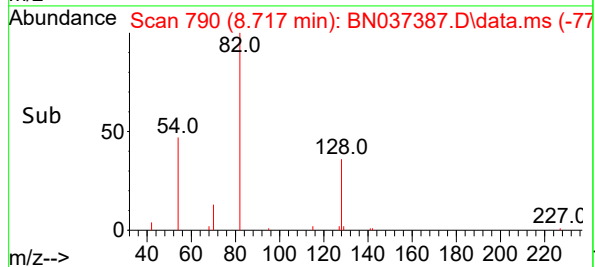
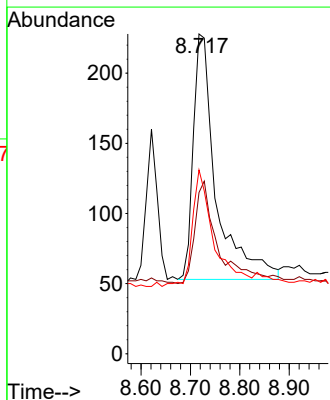
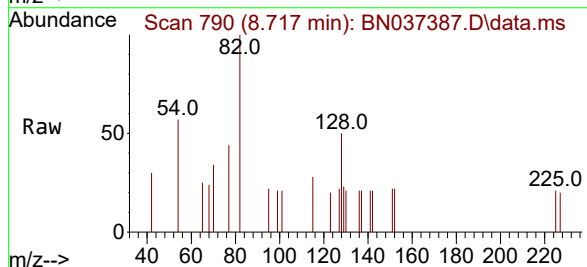
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

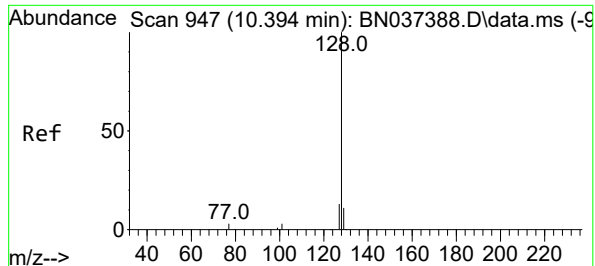
Tgt Ion:	136	Resp:	4021
Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.4	15.6
54	8.7	5.6	8.4#
68	6.7	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.175 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:	82	Resp:	565
Ion	Ratio	Lower	Upper
82	100		
128	50.4	34.0	51.0
54	57.5	37.7	56.5#





#9

Naphthalene

Concen: 0.194 ng

RT: 10.394 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

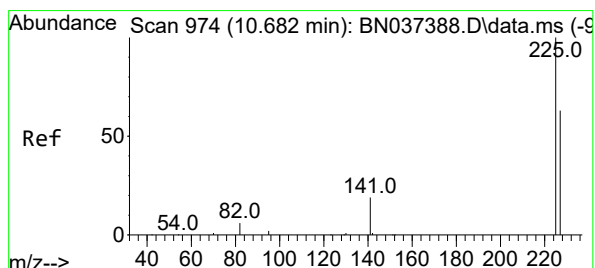
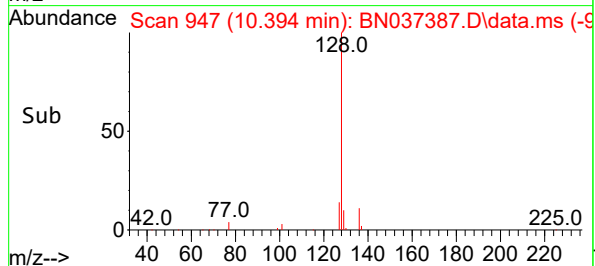
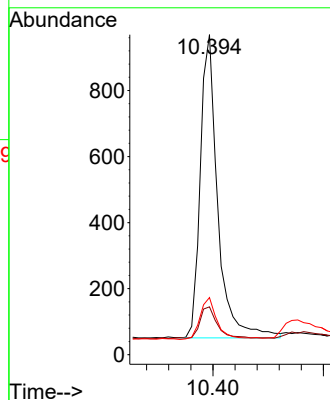
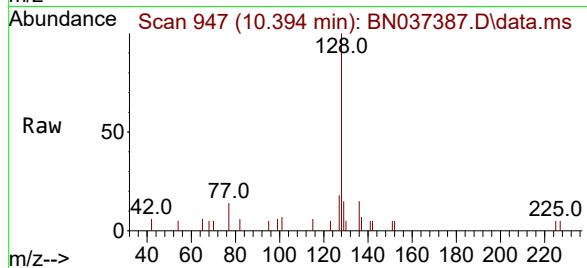
Tgt Ion:128 Resp: 2012

Ion Ratio Lower Upper

128 100

129 15.0 10.4 15.6

127 17.9 12.2 18.4



#10

Hexachlorobutadiene

Concen: 0.201 ng

RT: 10.682 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

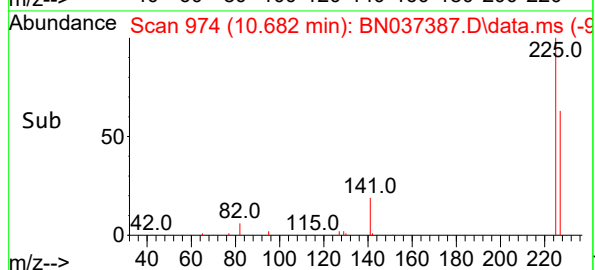
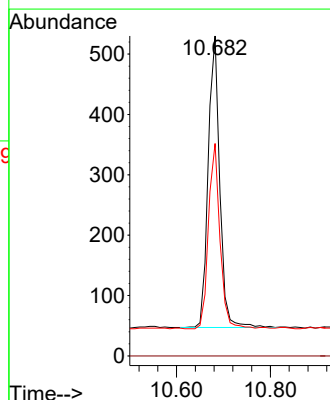
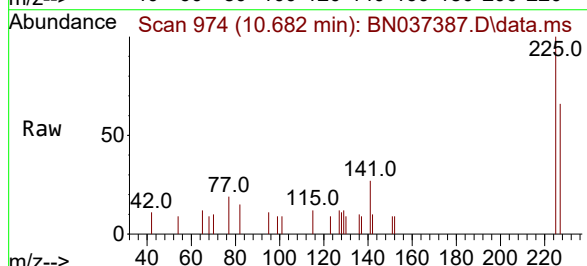
Tgt Ion:225 Resp: 824

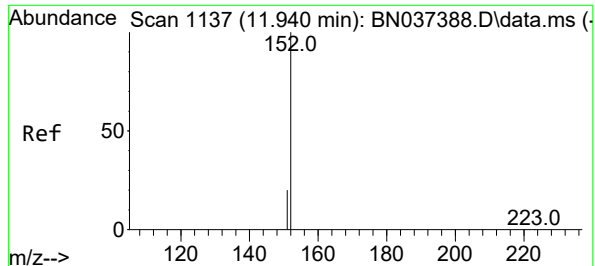
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 49.9 74.9

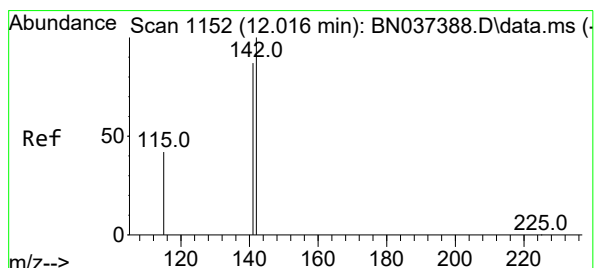
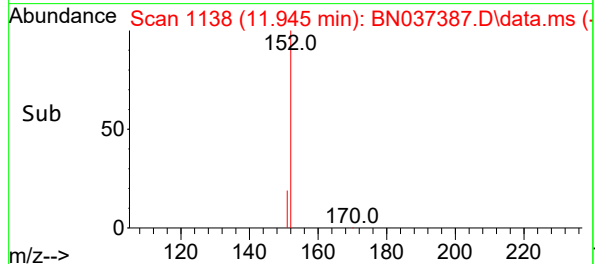
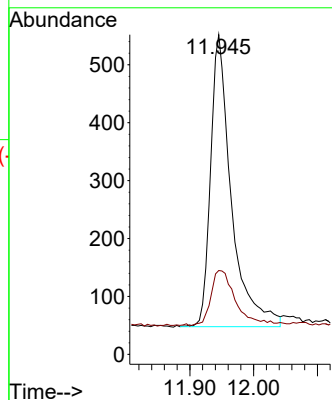
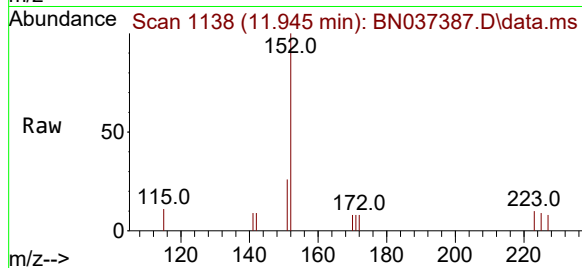




#11
2-Methylnaphthalene-d10
Concen: 0.183 ng
RT: 11.945 min Scan# 1137
Delta R.T. 0.005 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

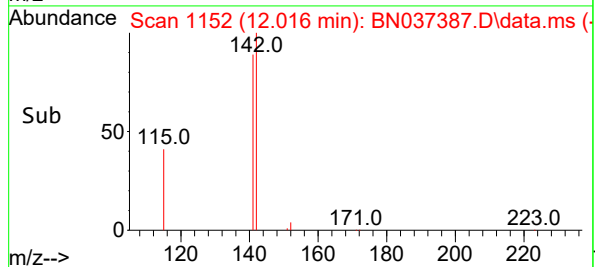
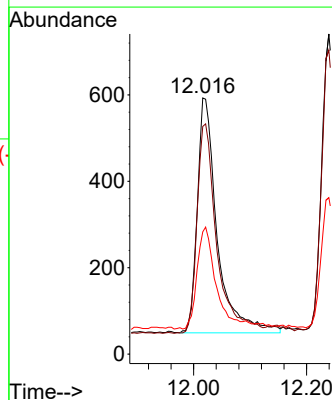
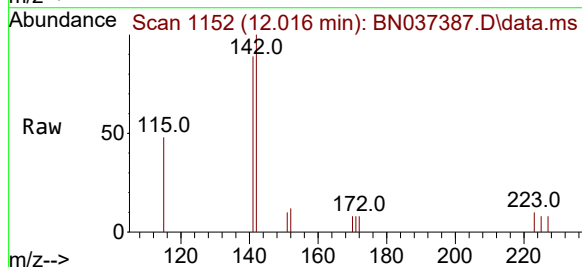
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

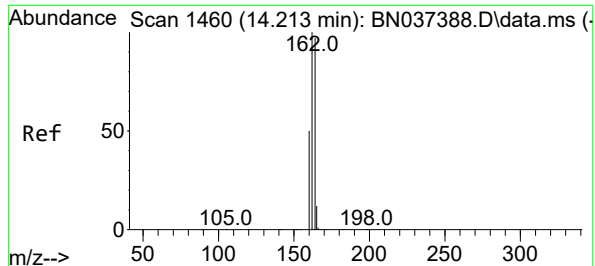
Tgt Ion:152 Resp: 1139
Ion Ratio Lower Upper
152 100
151 23.1 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:142 Resp: 1337
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 47.7 35.8 53.6

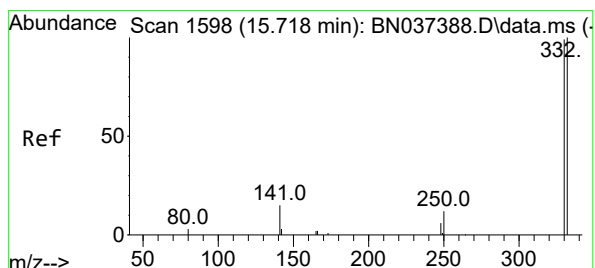
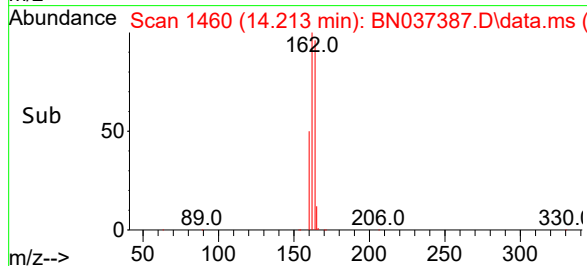
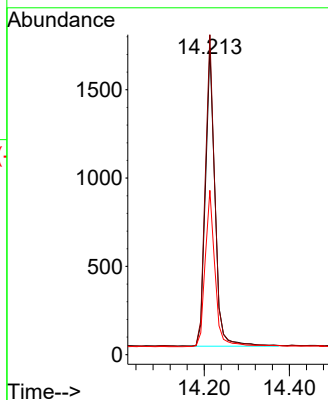
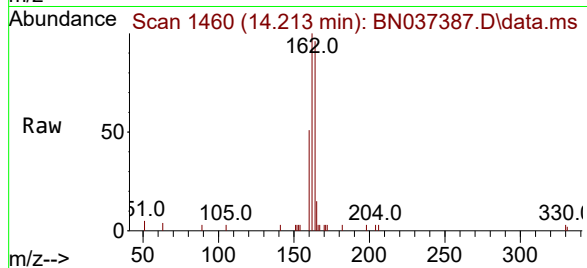




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

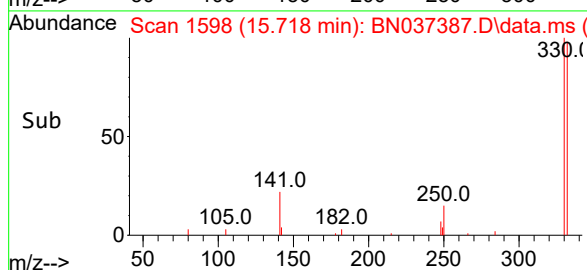
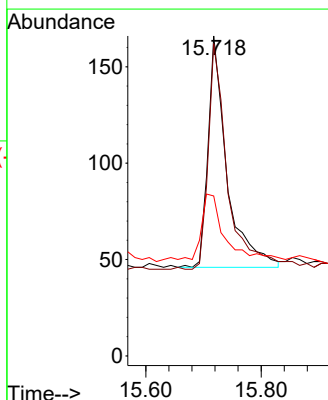
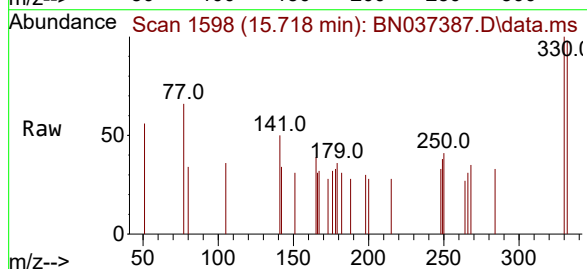
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

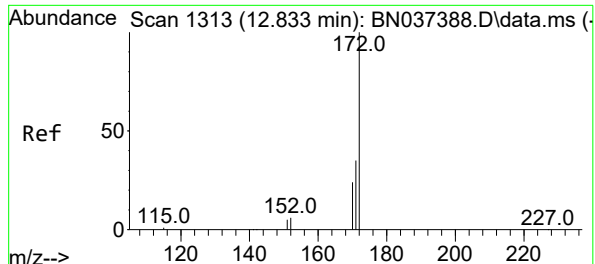
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.6	123.8
160	53.6	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.8	77.8	116.8
141	35.2	24.0	36.0





#15

2-Fluorobiphenyl

Concen: 0.192 ng

RT: 12.838 min Scan# 1313

Delta R.T. 0.005 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

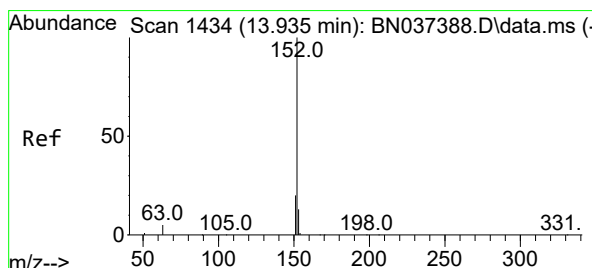
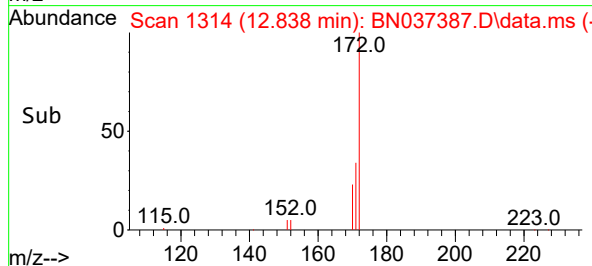
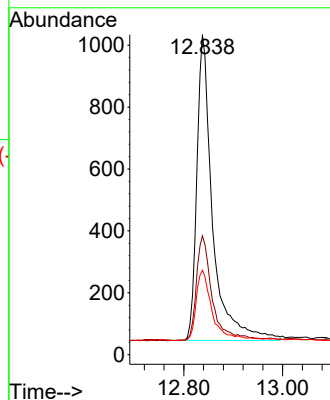
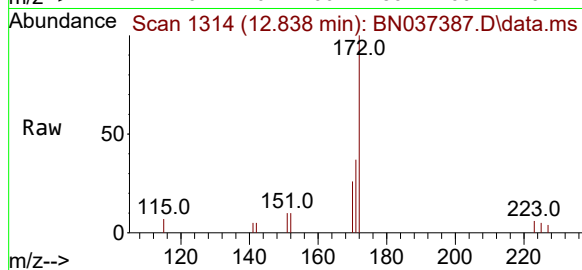
Tgt Ion:172 Resp: 2182

Ion Ratio Lower Upper

172 100

171 37.1 28.8 43.2

170 26.4 20.3 30.5



#16

Acenaphthylene

Concen: 0.193 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

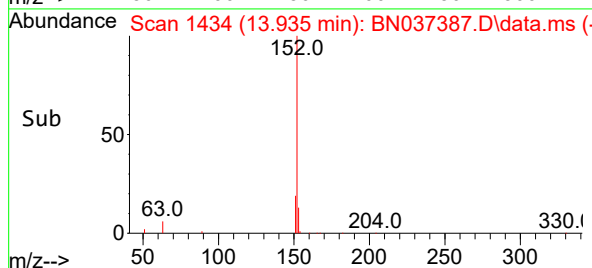
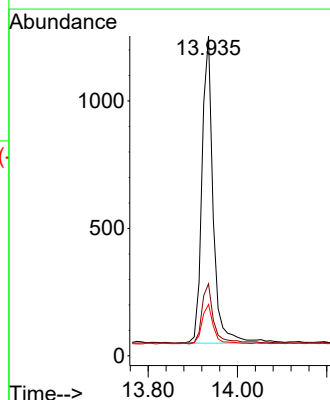
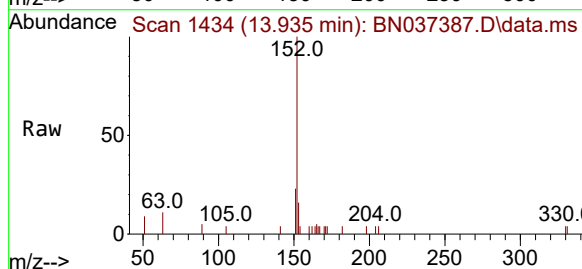
Tgt Ion:152 Resp: 2108

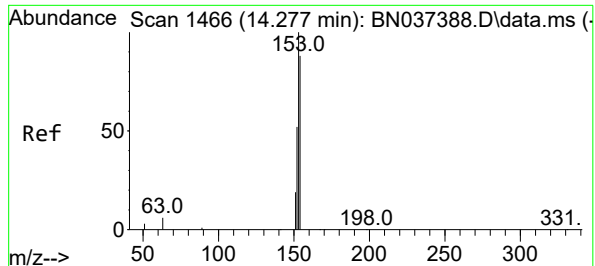
Ion Ratio Lower Upper

152 100

151 20.2 15.8 23.6

153 12.8 10.3 15.5

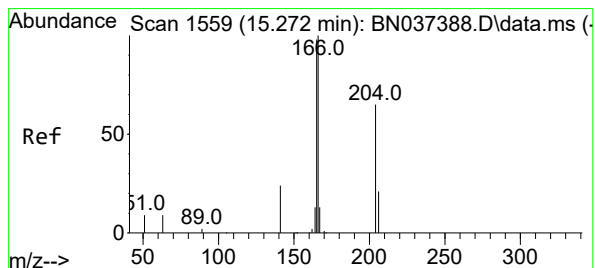
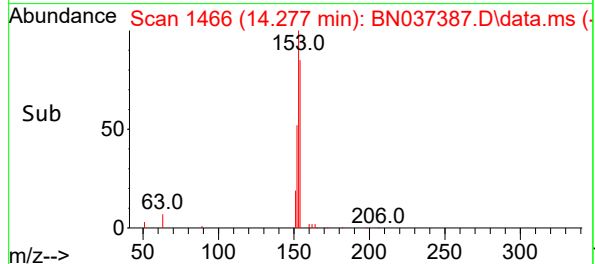
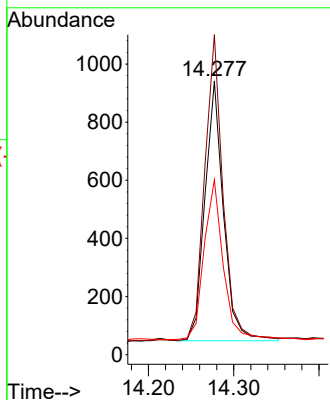
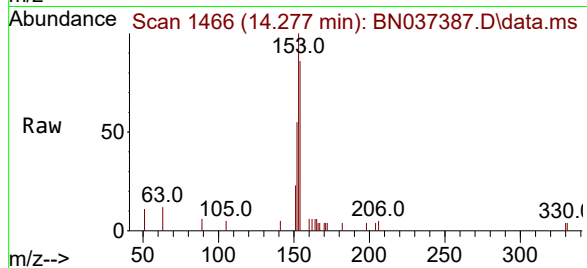




#17
Acenaphthene
Concen: 0.190 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

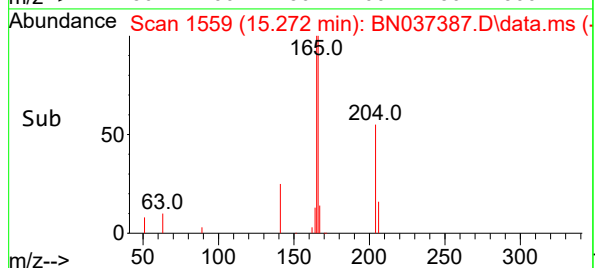
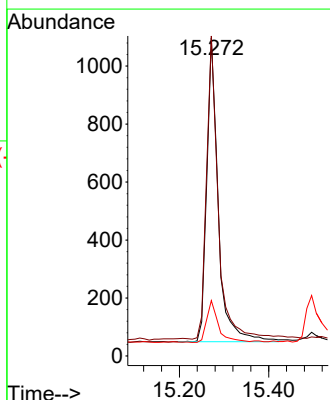
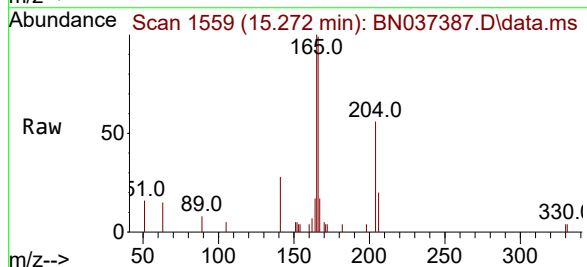
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

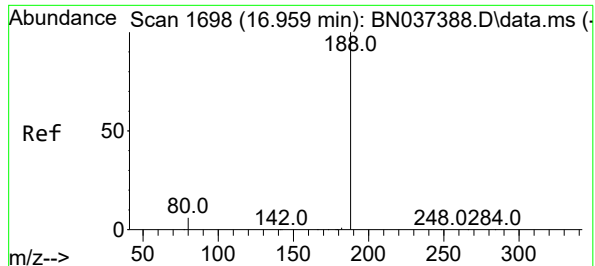
Tgt Ion:154 Resp: 1353
Ion Ratio Lower Upper
154 100
153 118.8 94.6 141.8
152 63.5 50.2 75.2



#18
Fluorene
Concen: 0.185 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:166 Resp: 1867
Ion Ratio Lower Upper
166 100
165 101.4 79.4 119.2
167 14.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

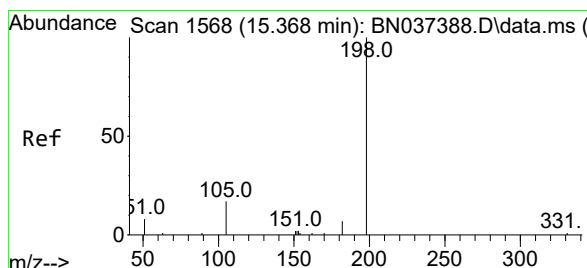
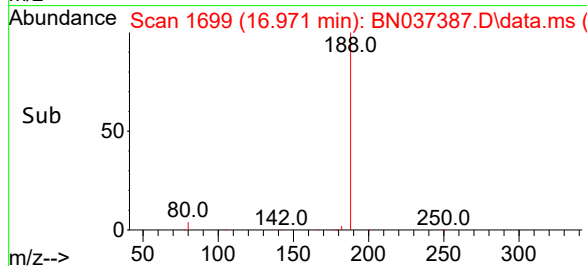
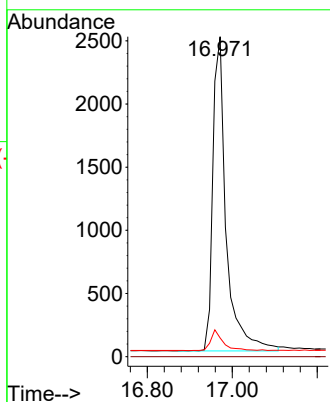
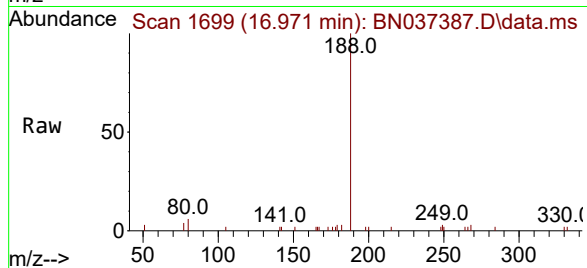
Tgt Ion:188 Resp: 5416

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.8 6.2 9.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.164 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

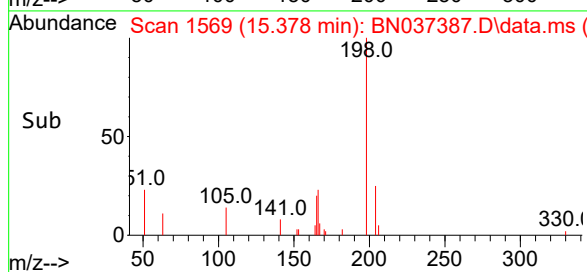
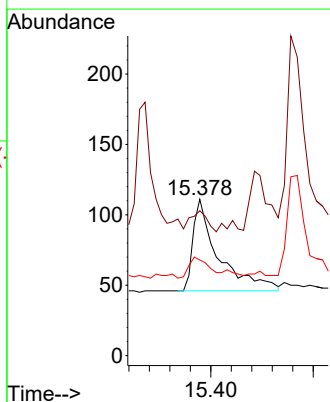
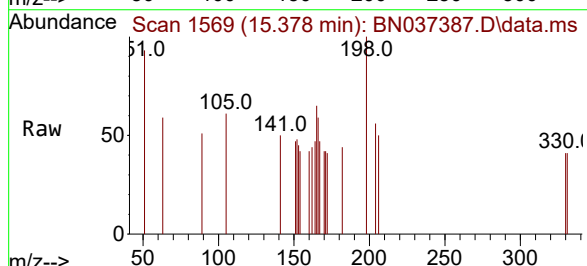
Tgt Ion:198 Resp: 228

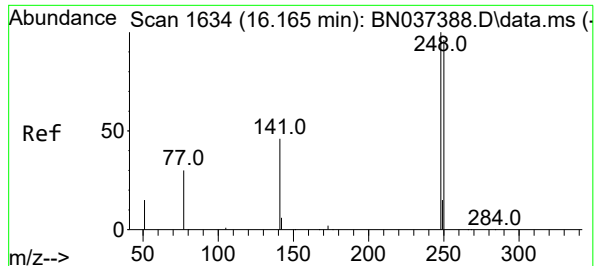
Ion Ratio Lower Upper

198 100

51 92.8 38.8 58.2#

105 61.3 29.8 44.6#

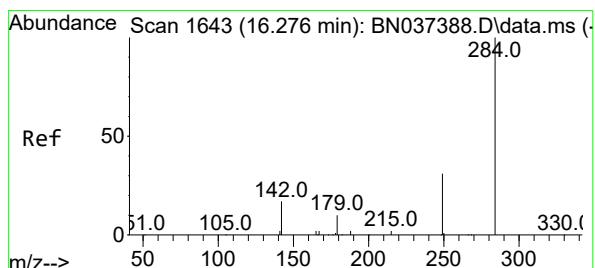
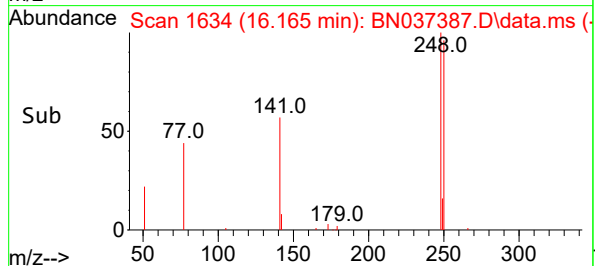
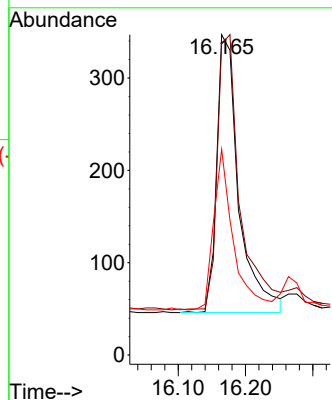
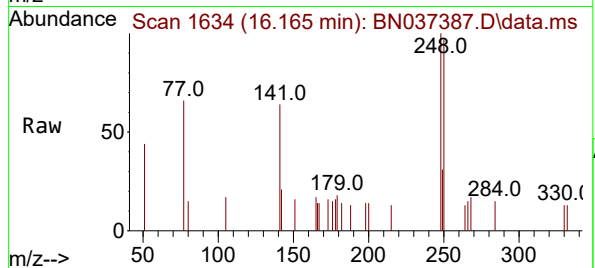




#21
4-Bromophenyl-phenylether
Concen: 0.179 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

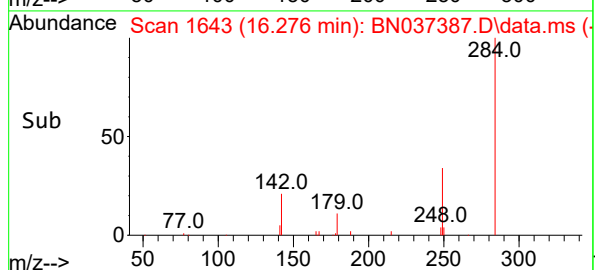
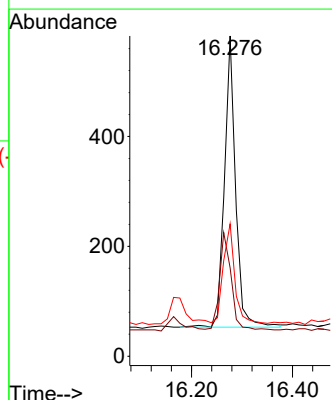
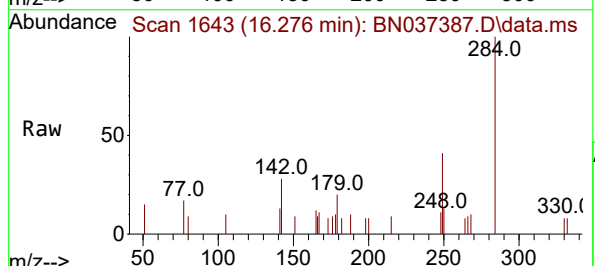
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

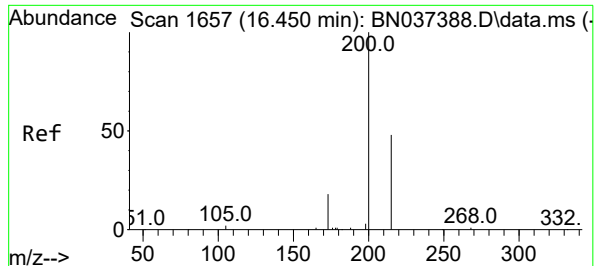
Tgt Ion:248 Resp: 684
Ion Ratio Lower Upper
248 100
250 97.1 77.0 115.4
141 64.3 38.7 58.1#



#22
Hexachlorobenzene
Concen: 0.197 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:284 Resp: 809
Ion Ratio Lower Upper
284 100
142 35.0 27.2 40.8
249 35.1 26.7 40.1





#23

Atrazine

Concen: 0.186 ng

RT: 16.450 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

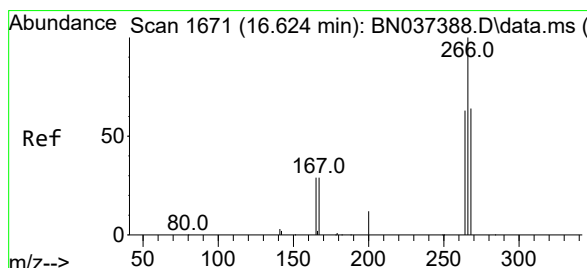
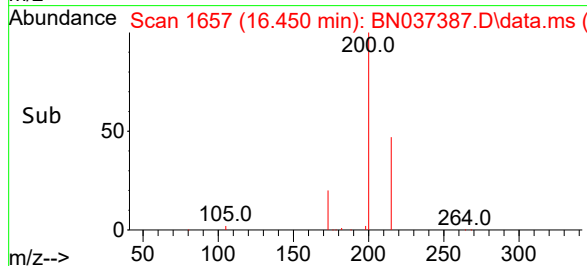
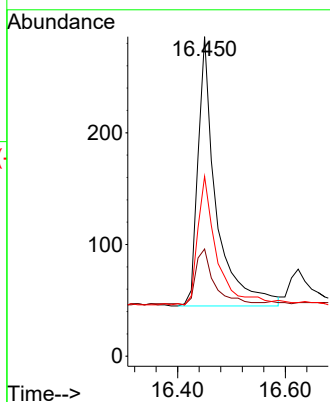
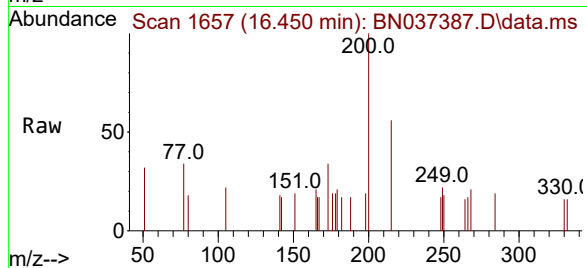
Tgt Ion:200 Resp: 563

Ion Ratio Lower Upper

200 100

173 33.6 19.0 28.6#

215 56.3 41.3 61.9



#24

Pentachlorophenol

Concen: 0.201 ng

RT: 16.624 min Scan# 1671

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

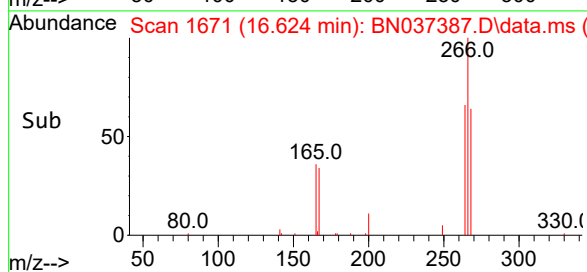
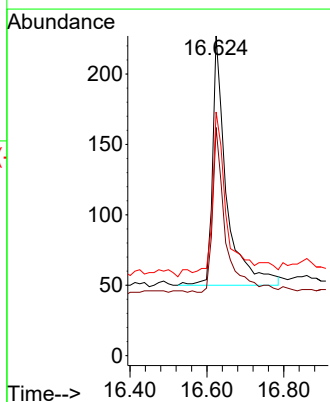
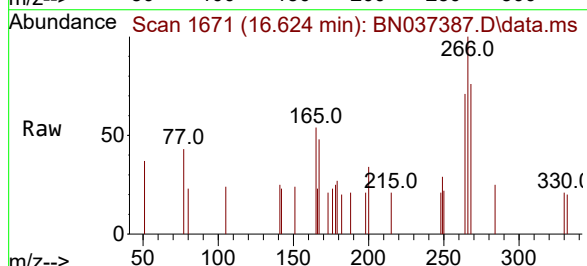
Tgt Ion:266 Resp: 445

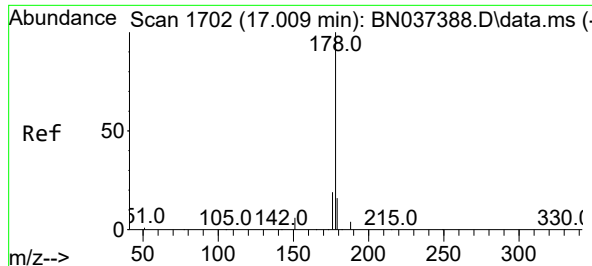
Ion Ratio Lower Upper

266 100

264 61.6 49.2 73.8

268 59.1 54.2 81.4

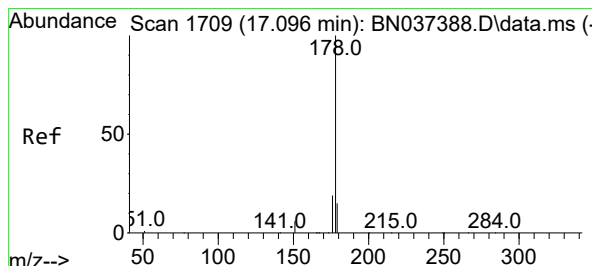
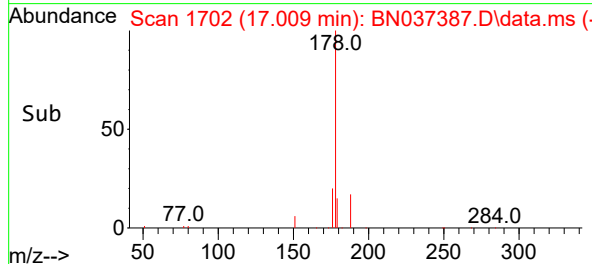
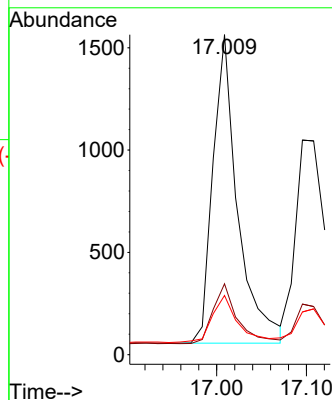
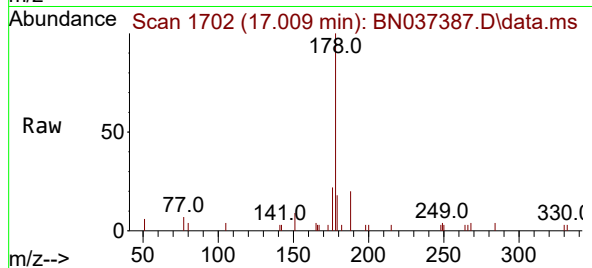




#25
Phenanthrene
Concen: 0.189 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

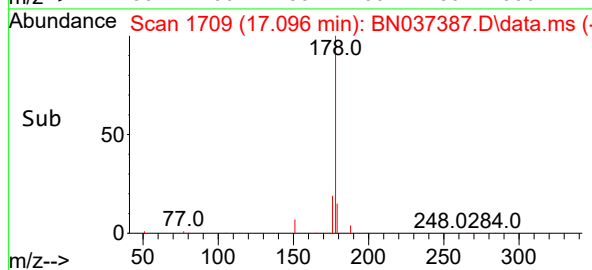
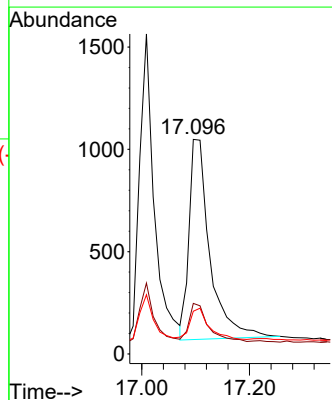
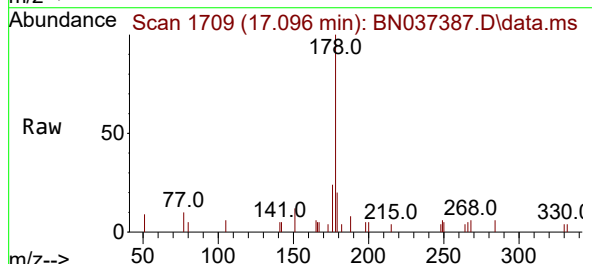
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

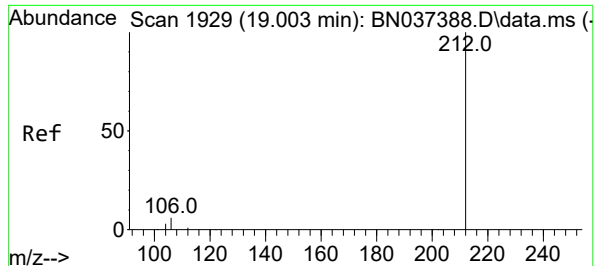
Tgt Ion:178 Resp: 2890
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.7 12.8 19.2



#26
Anthracene
Concen: 0.188 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:178 Resp: 2632
Ion Ratio Lower Upper
178 100
176 17.3 14.9 22.3
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.198 ng

RT: 19.008 min Scan# 1930

Delta R.T. 0.005 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

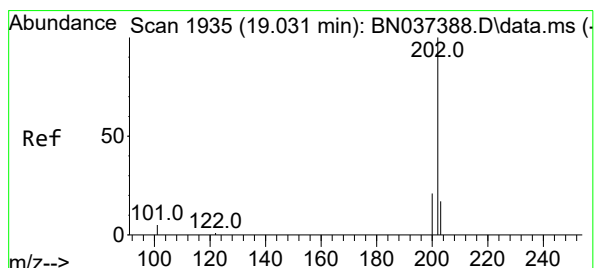
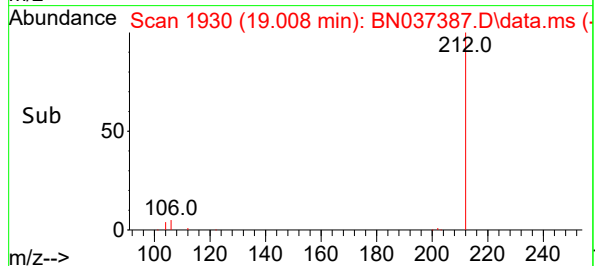
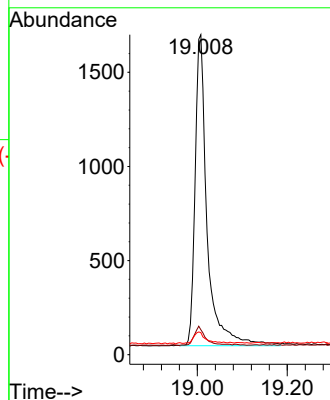
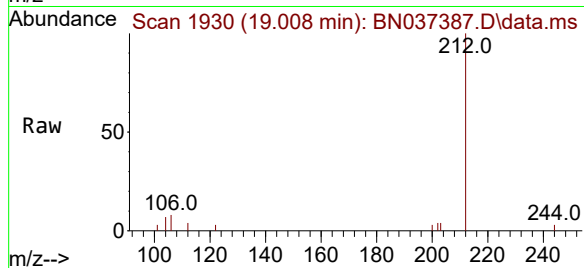
Tgt Ion:212 Resp: 3080

Ion Ratio Lower Upper

212 100

106 5.6 4.5 6.7

104 3.8 2.7 4.1



#28

Fluoranthene

Concen: 0.194 ng

RT: 19.035 min Scan# 1936

Delta R.T. 0.005 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

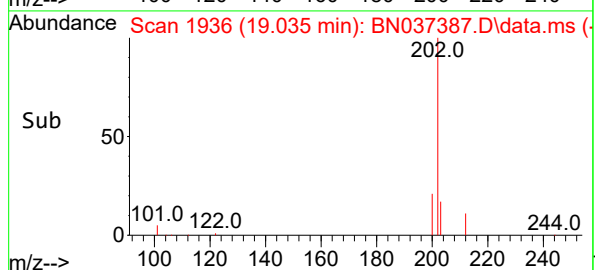
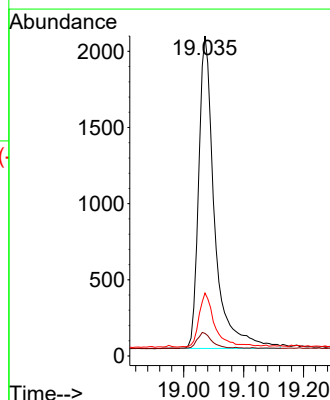
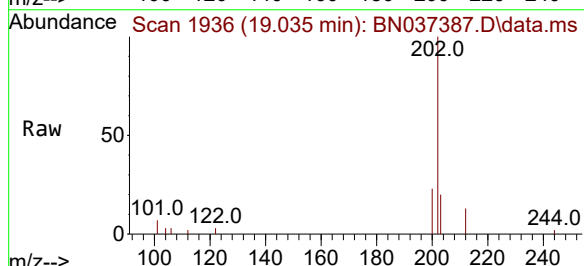
Tgt Ion:202 Resp: 3786

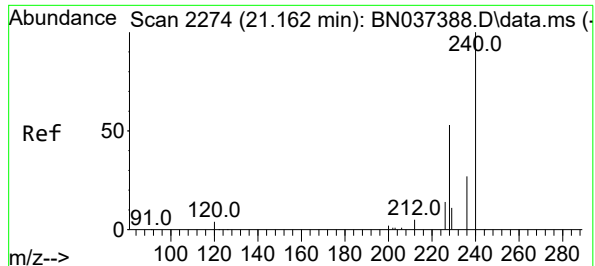
Ion Ratio Lower Upper

202 100

101 4.8 3.8 5.6

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

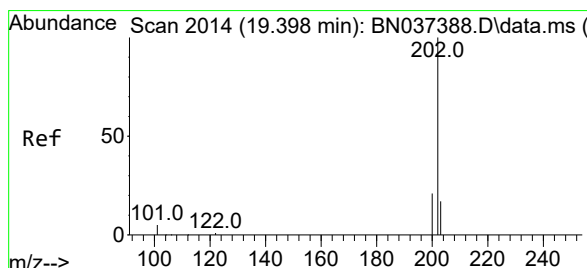
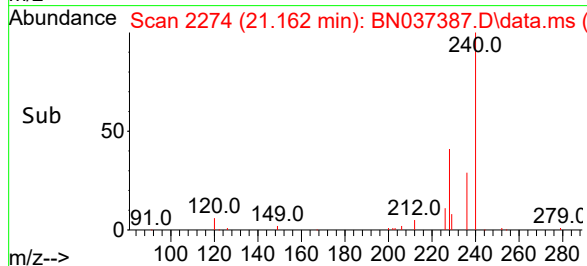
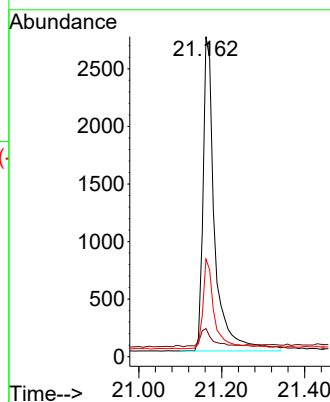
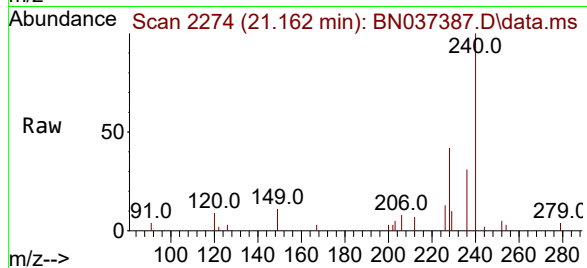
Tgt Ion:240 Resp: 5370

Ion Ratio Lower Upper

240 100

120 8.8 5.3 7.9#

236 30.5 22.7 34.1



#30

Pyrene

Concen: 0.191 ng

RT: 19.398 min Scan# 2014

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

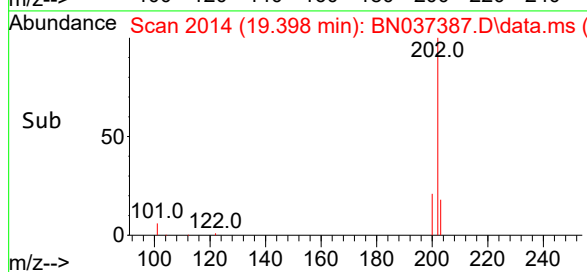
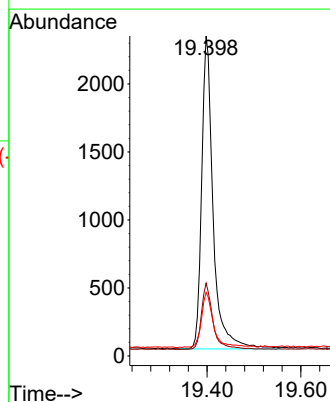
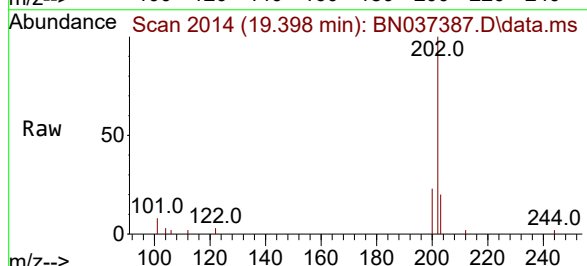
Tgt Ion:202 Resp: 3891

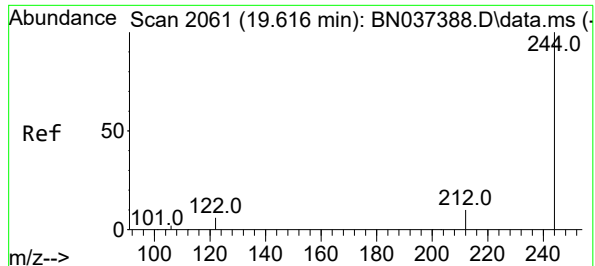
Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

203 18.6 14.2 21.2

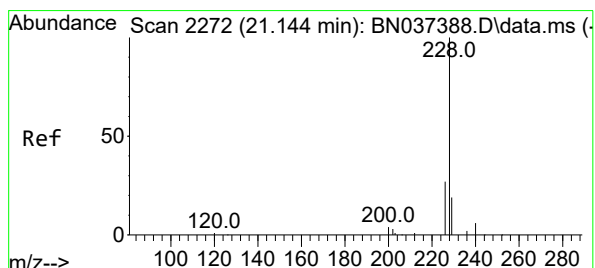
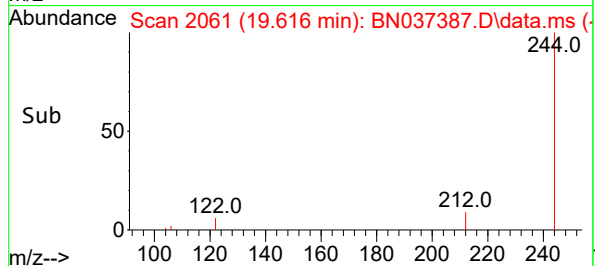
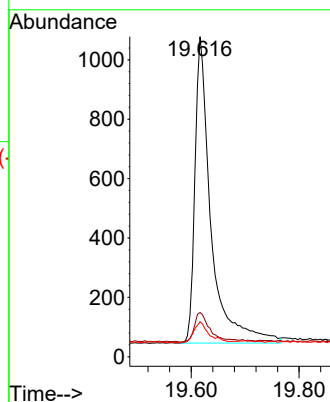
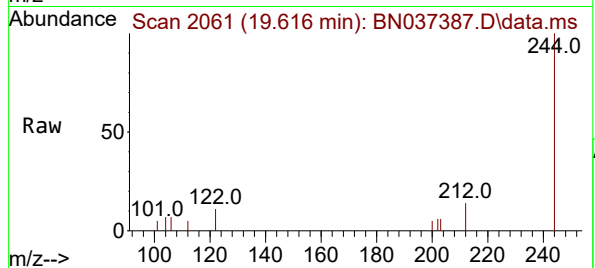




#31
Terphenyl-d14
Concen: 0.186 ng
RT: 19.616 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

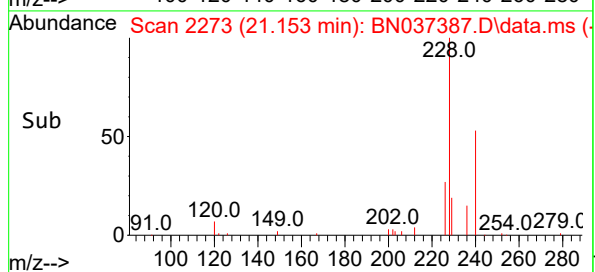
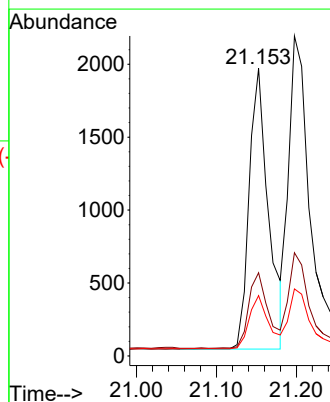
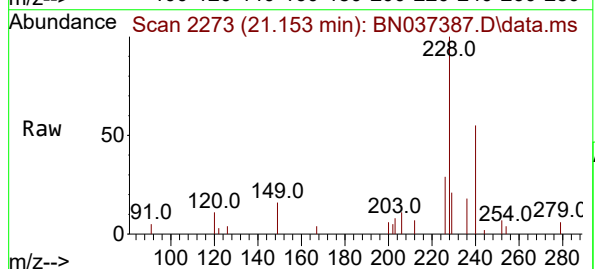
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

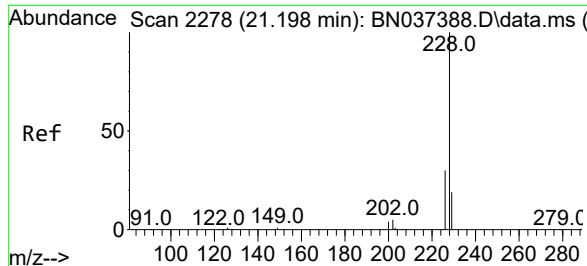
Tgt Ion:244 Resp: 2132
Ion Ratio Lower Upper
244 100
212 13.8 9.1 13.7#
122 10.9 6.3 9.5#



#32
Benzo(a)anthracene
Concen: 0.191 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:228 Resp: 3228
Ion Ratio Lower Upper
228 100
226 28.9 22.6 34.0
229 21.0 16.2 24.2





#33

Chrysene

Concen: 0.202 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

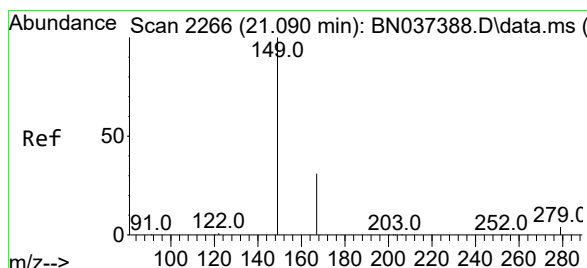
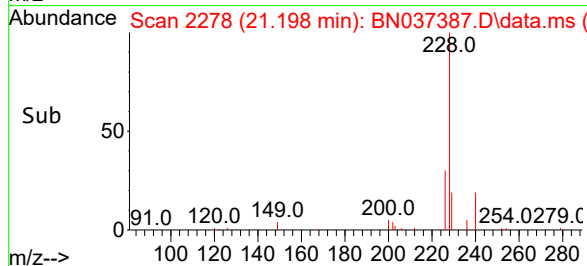
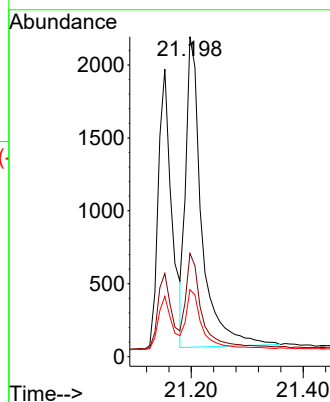
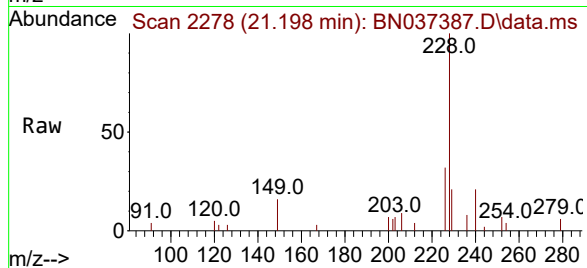
Tgt Ion:228 Resp: 4224

Ion Ratio Lower Upper

228 100

226 32.3 24.5 36.7

229 20.9 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.204 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

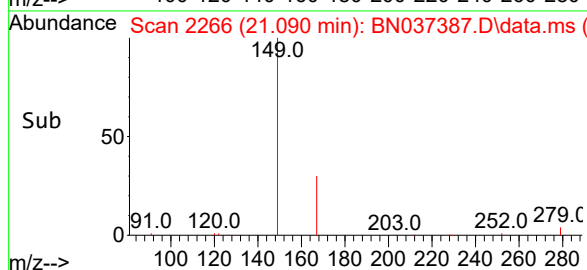
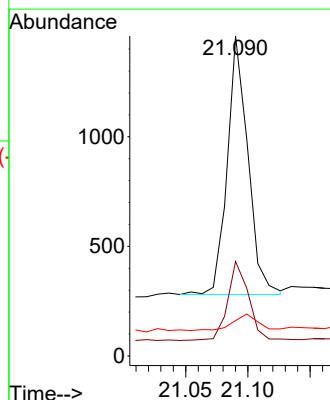
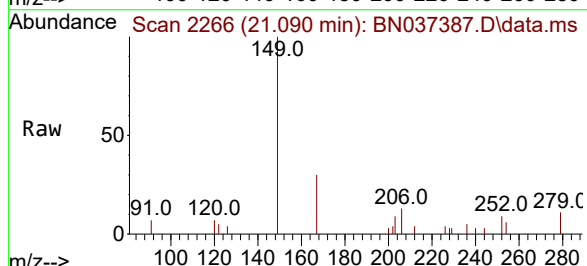
Tgt Ion:149 Resp: 1366

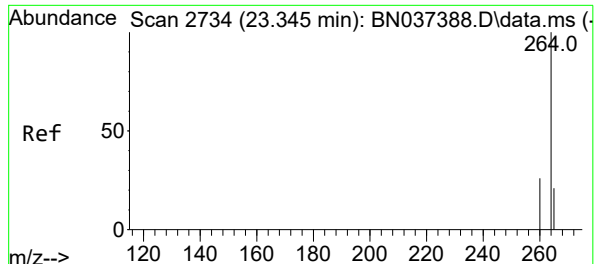
Ion Ratio Lower Upper

149 100

167 30.9 24.8 37.2

279 7.6 5.0 7.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037387.D

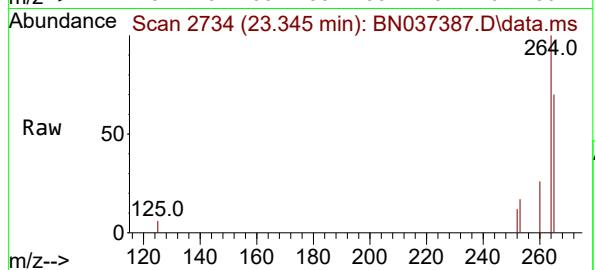
Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



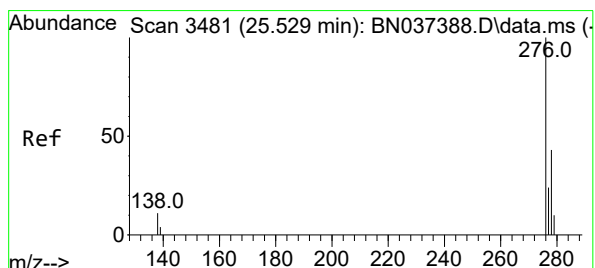
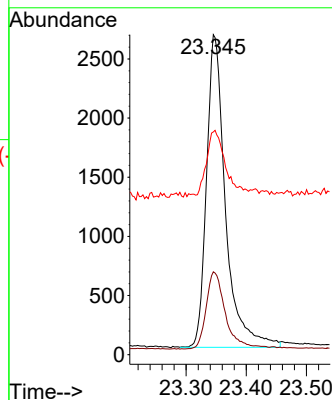
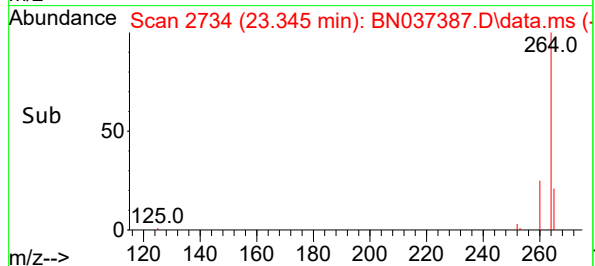
Tgt Ion:264 Resp: 5780

Ion Ratio Lower Upper

264 100

260 25.9 21.4 32.0

265 69.6 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.180 ng

RT: 25.532 min Scan# 3482

Delta R.T. 0.003 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

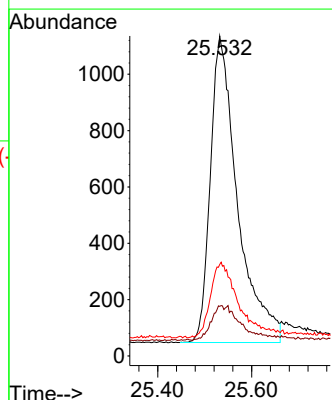
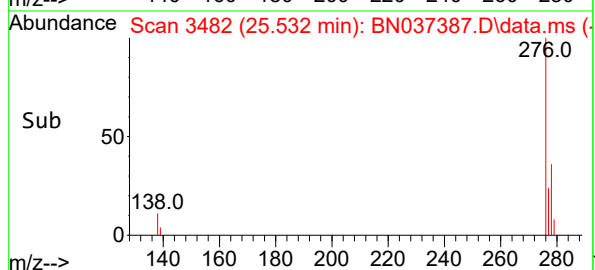
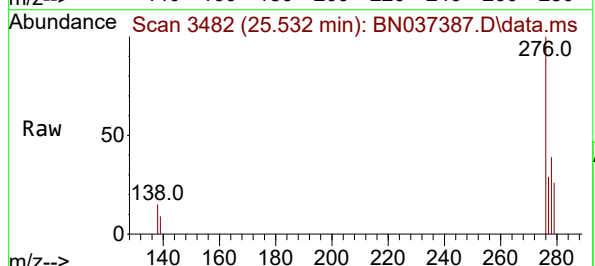
Tgt Ion:276 Resp: 4378

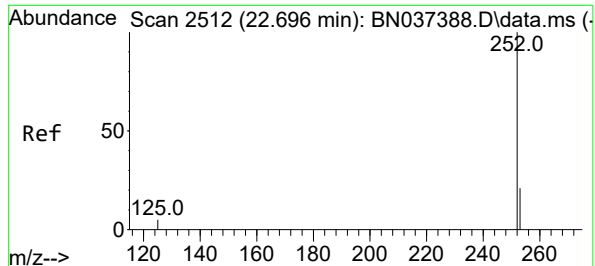
Ion Ratio Lower Upper

276 100

138 5.3 8.5 12.7#

277 25.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.185 ng

RT: 22.696 min Scan# 2512

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

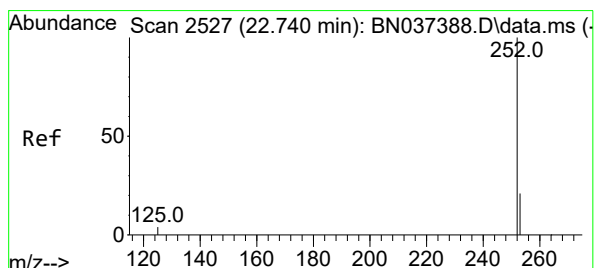
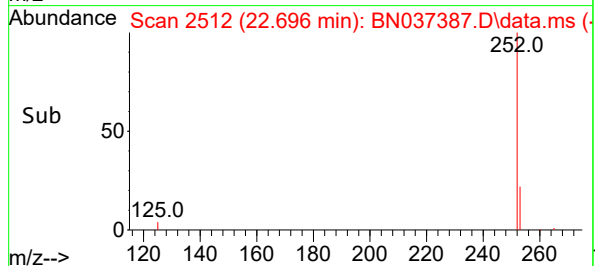
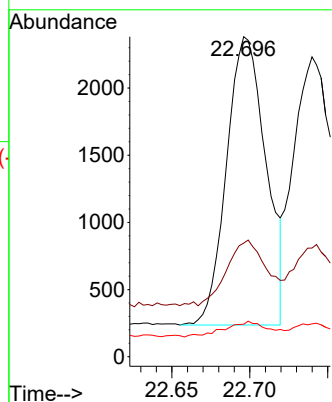
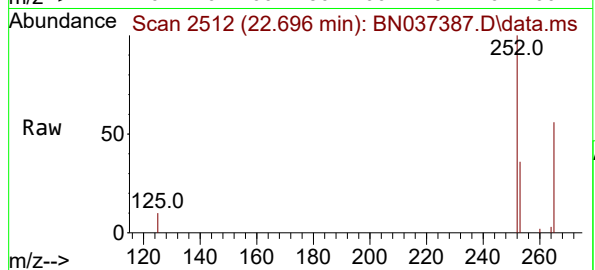
Tgt Ion:252 Resp: 3772

Ion Ratio Lower Upper

252 100

253 35.5 22.8 34.2#

125 10.2 6.2 9.4#



#38

Benzo(k)fluoranthene

Concen: 0.184 ng

RT: 22.740 min Scan# 2527

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

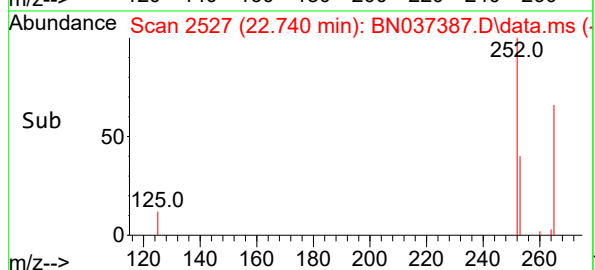
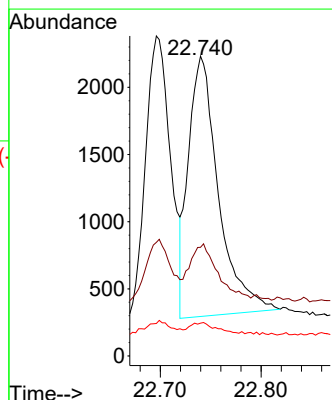
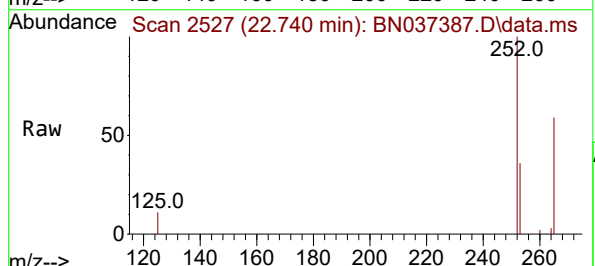
Tgt Ion:252 Resp: 4013

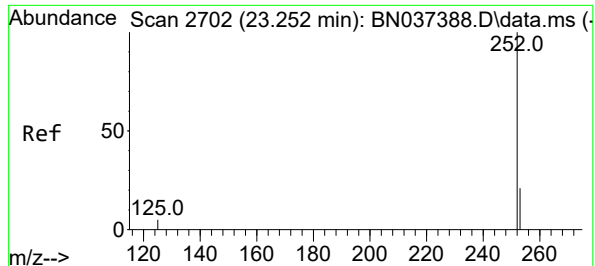
Ion Ratio Lower Upper

252 100

253 36.2 23.2 34.8#

125 11.0 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 0.185 ng

RT: 23.254 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

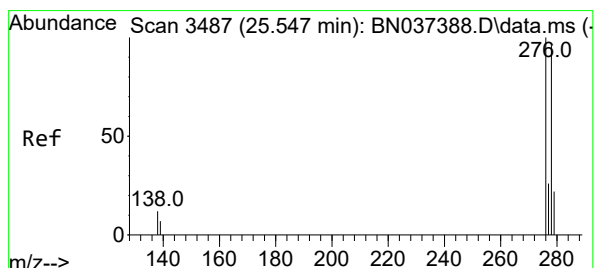
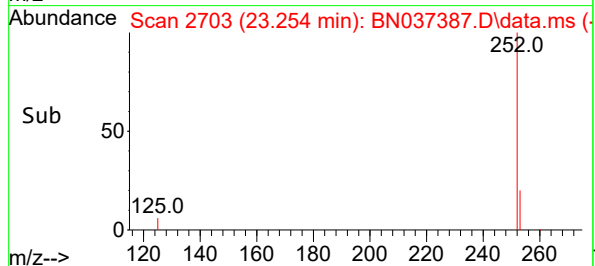
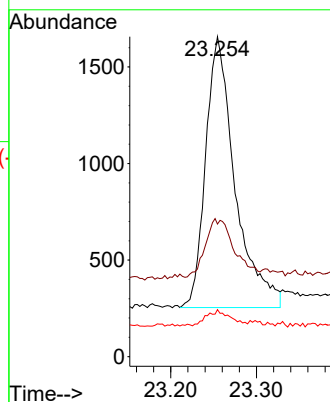
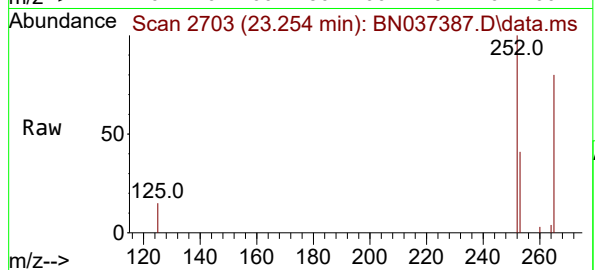
Tgt Ion:252 Resp: 3352

Ion Ratio Lower Upper

252 100

253 41.5 25.6 38.4#

125 14.7 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.176 ng

RT: 25.555 min Scan# 3490

Delta R.T. 0.009 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

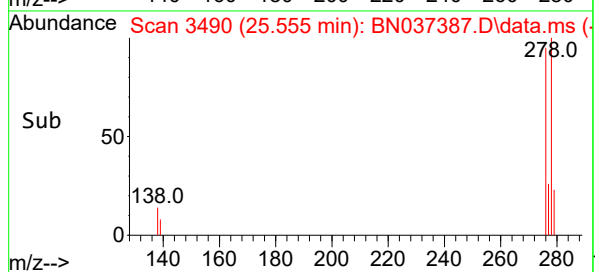
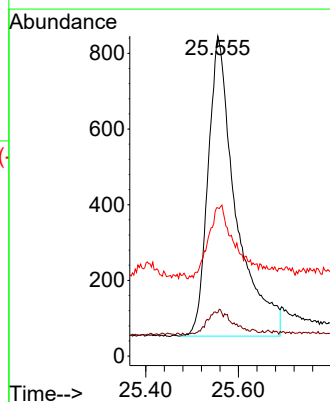
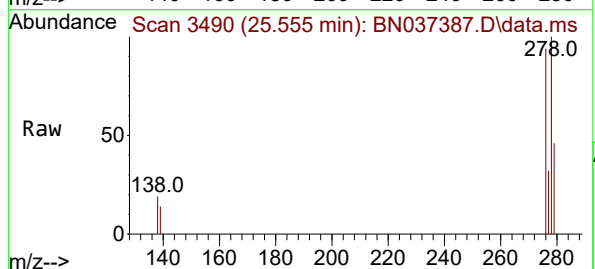
Tgt Ion:278 Resp: 3290

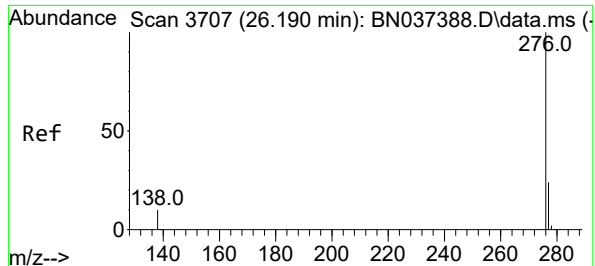
Ion Ratio Lower Upper

278 100

139 13.6 8.5 12.7#

279 46.3 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 0.190 ng

RT: 26.193 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037387.D

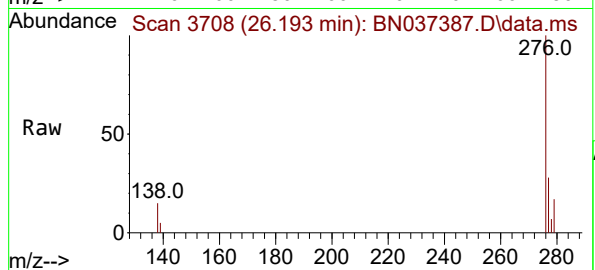
Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



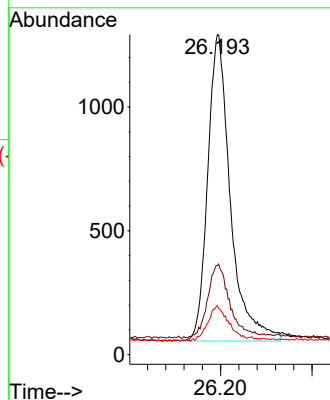
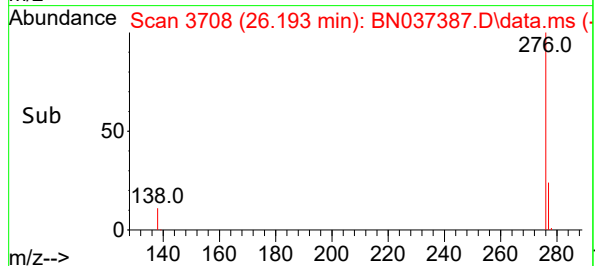
Tgt Ion:276 Resp: 4258

Ion Ratio Lower Upper

276 100

277 27.8 21.0 31.4

138 15.3 9.6 14.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037388.D
 Acq On : 26 Jun 2025 11:53
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 26 14:43:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

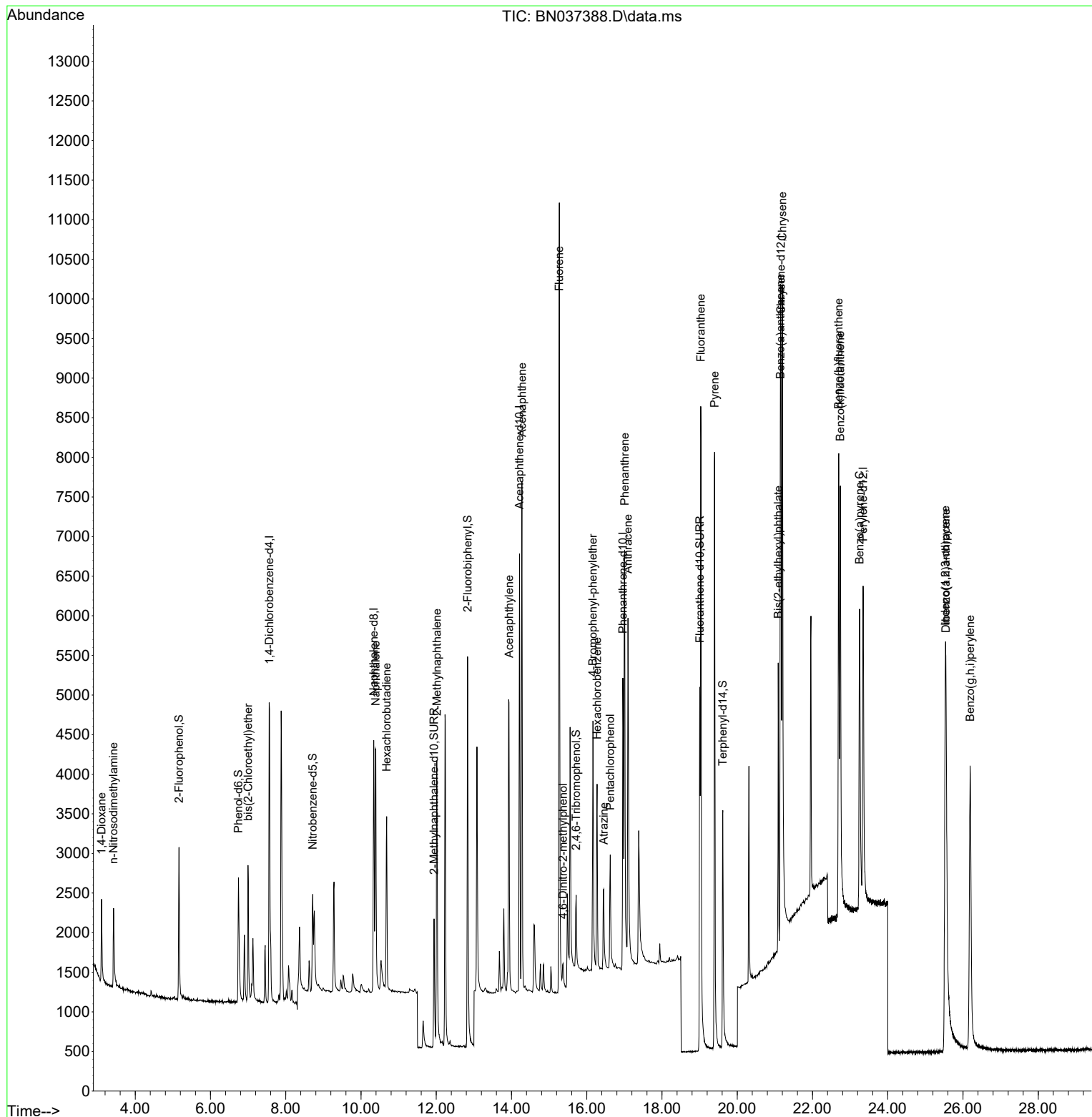
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2117	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4565	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	3048	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	6284	0.400	ng	0.00
29) Chrysene-d12	21.162	240	5612	0.400	ng	0.00
35) Perylene-d12	23.345	264	5950	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1703	0.417	ng	0.00
5) Phenol-d6	6.744	99	1720	0.407	ng	0.00
8) Nitrobenzene-d5	8.717	82	1419	0.386	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2629	0.372	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	729	0.408	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	5253	0.399	ng	0.00
27) Fluoranthene-d10	19.003	212	6680	0.371	ng	0.00
31) Terphenyl-d14	19.616	244	4873	0.407	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	781	0.412	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.422	42	792	0.399	ng	100
6) bis(2-Chloroethyl)ether	6.997	93	1521	0.404	ng	100
9) Naphthalene	10.394	128	4559	0.388	ng	100
10) Hexachlorobutadiene	10.682	225	1887	0.405	ng	# 100
12) 2-Methylnaphthalene	12.016	142	3122	0.386	ng	100
16) Acenaphthylene	13.935	152	4804	0.380	ng	100
17) Acenaphthene	14.277	154	3185	0.386	ng	100
18) Fluorene	15.272	166	4498	0.386	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	535	0.331	ng	100
21) 4-Bromophenyl-phenylether	16.165	248	1694	0.382	ng	100
22) Hexachlorobenzene	16.276	284	1899	0.398	ng	100
23) Atrazine	16.450	200	1336	0.380	ng	100
24) Pentachlorophenol	16.624	266	973	0.378	ng	99
25) Phenanthrene	17.009	178	6787	0.383	ng	100
26) Anthracene	17.096	178	6087	0.374	ng	100
28) Fluoranthene	19.031	202	8557	0.378	ng	100
30) Pyrene	19.398	202	8607	0.405	ng	100
32) Benzo(a)anthracene	21.144	228	6549	0.371	ng	100
33) Chrysene	21.198	228	8883	0.407	ng	100
34) Bis(2-ethylhexyl)phtha...	21.090	149	2830	0.405	ng	100
36) Indeno(1,2,3-cd)pyrene	25.529	276	9382	0.374	ng	100
37) Benzo(b)fluoranthene	22.696	252	7840	0.374	ng	100
38) Benzo(k)fluoranthene	22.740	252	8696	0.388	ng	100
39) Benzo(a)pyrene	23.252	252	7038	0.377	ng	100
40) Dibenzo(a,h)anthracene	25.547	278	7205	0.374	ng	100
41) Benzo(g,h,i)perylene	26.190	276	8788	0.382	ng	100

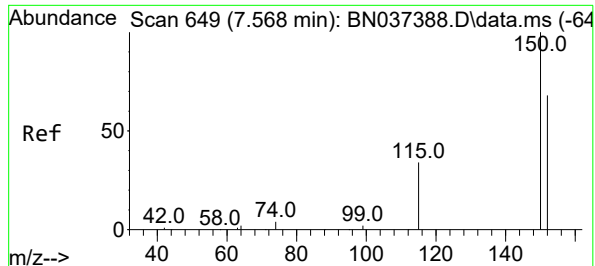
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037388.D
Acq On : 26 Jun 2025 11:53
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 26 14:43:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

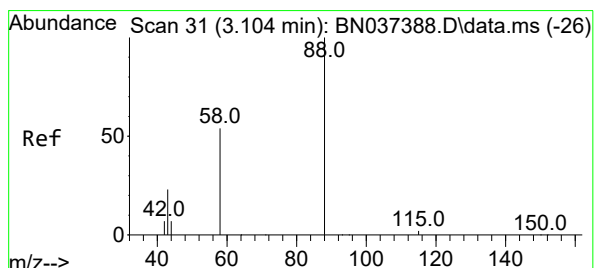
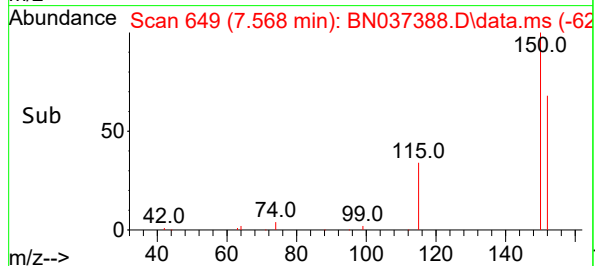
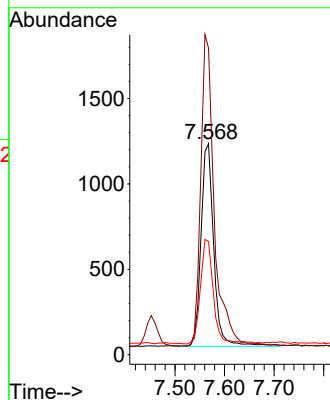
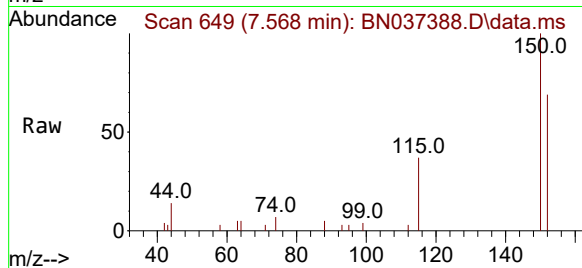




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

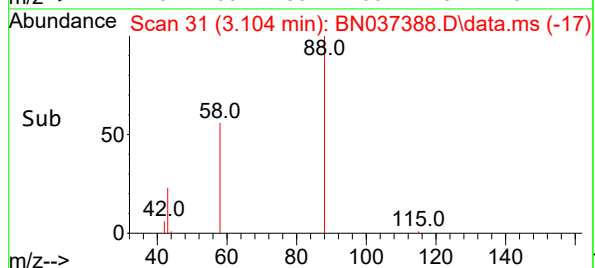
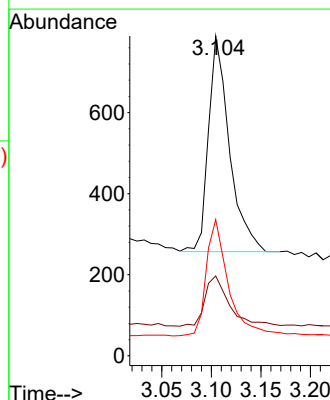
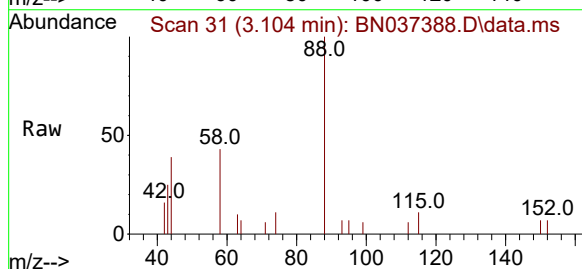
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

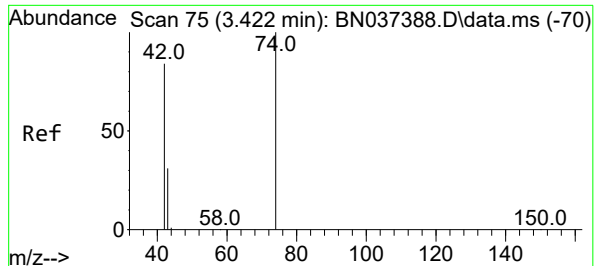
Tgt Ion:152 Resp: 2117
Ion Ratio Lower Upper
152 100
150 145.2 116.2 174.2
115 53.6 42.9 64.3



#2
1,4-Dioxane
Concen: 0.412 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion: 88 Resp: 781
Ion Ratio Lower Upper
88 100
43 27.0 21.6 32.4
58 57.4 45.9 68.9

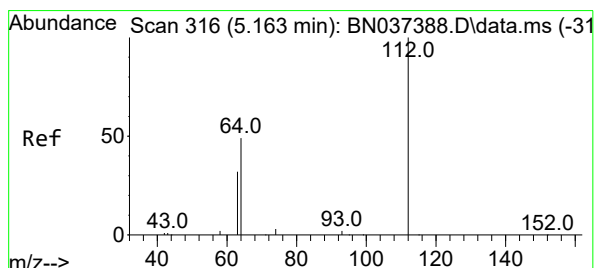
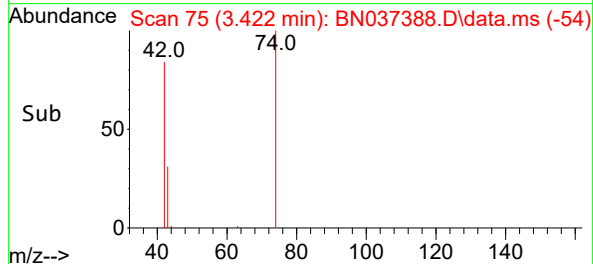
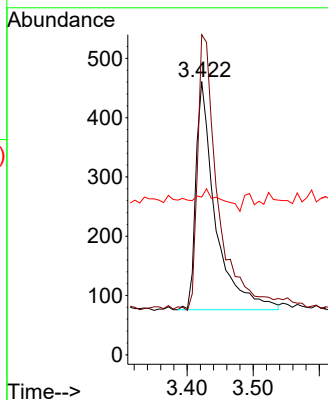
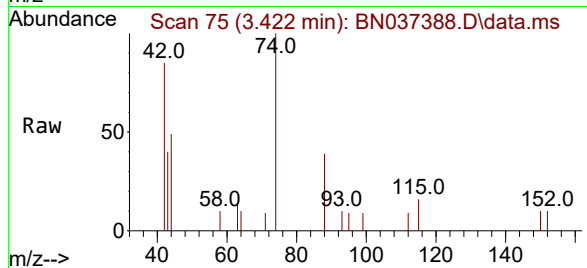




#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

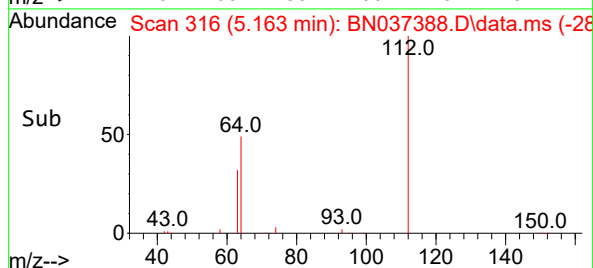
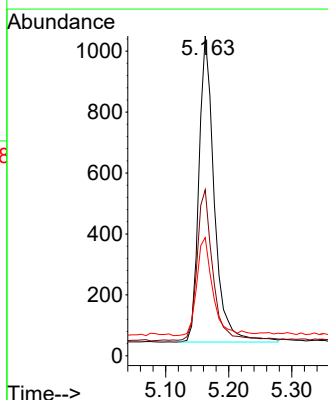
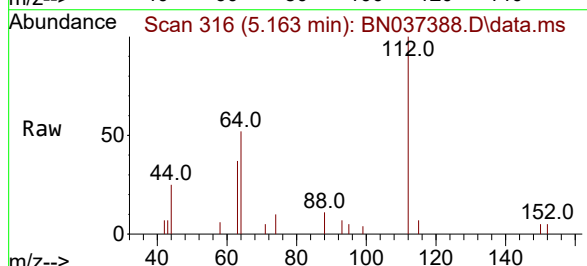
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

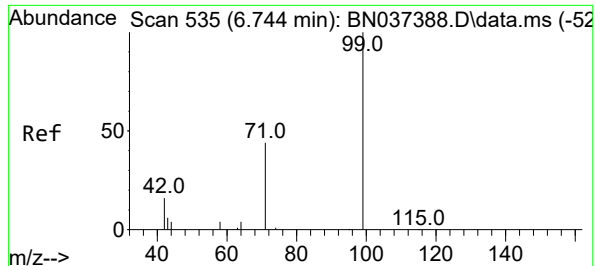
Tgt Ion: 42 Resp: 792
Ion Ratio Lower Upper
42 100
74 122.3 97.8 146.8
44 10.9 8.7 13.1



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion: 112 Resp: 1703
Ion Ratio Lower Upper
112 100
64 50.4 40.3 60.5
63 32.6 26.1 39.1

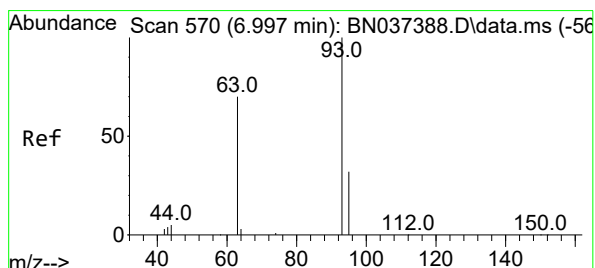
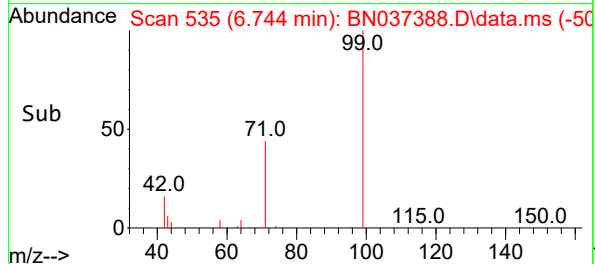
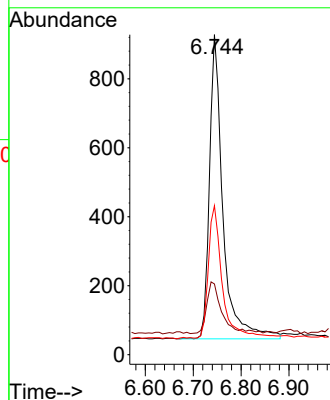
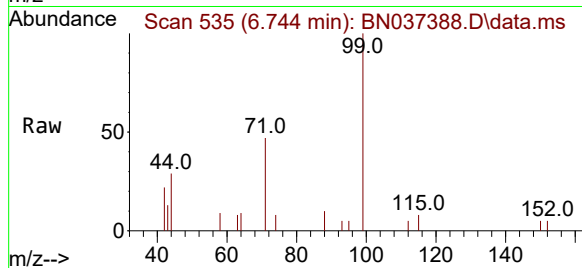




#5
Phenol-d6
Concen: 0.407 ng
RT: 6.744 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

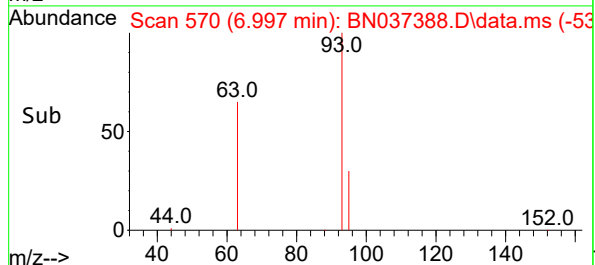
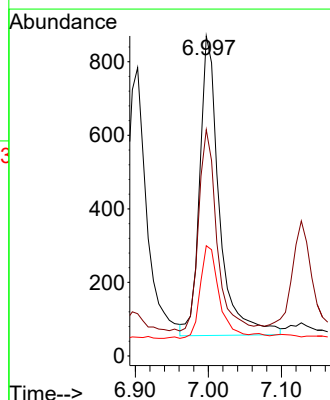
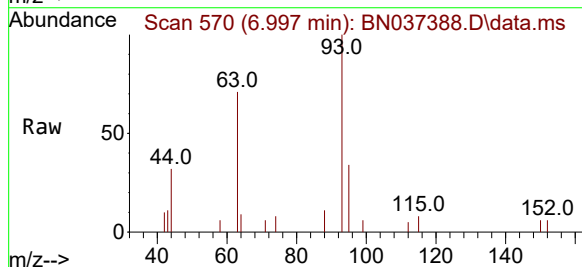
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

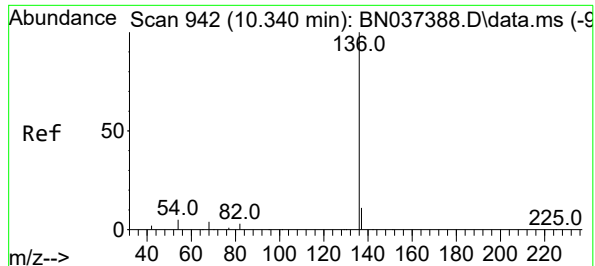
Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.2	15.6	23.4
71	44.8	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion	Ratio	Lower	Upper
93	100		
63	62.3	49.6	74.4
95	30.0	23.9	35.9

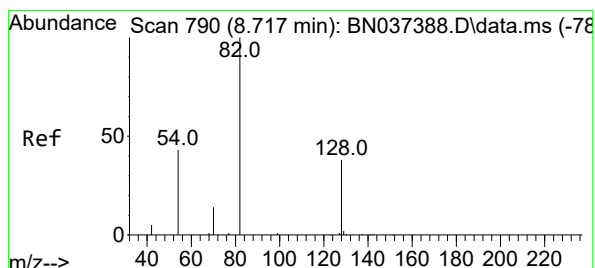
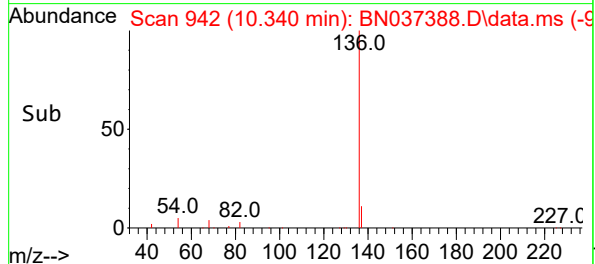
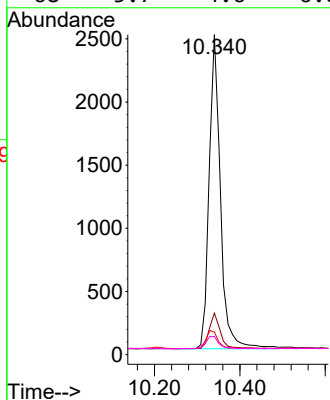
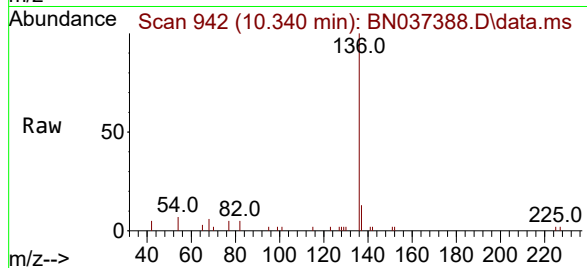




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

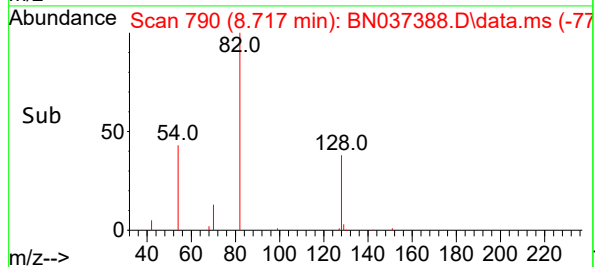
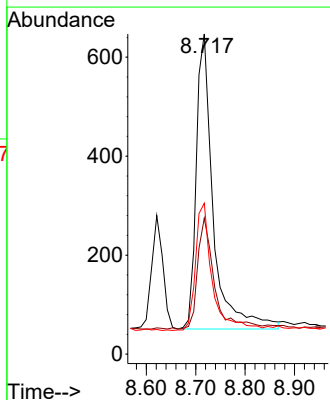
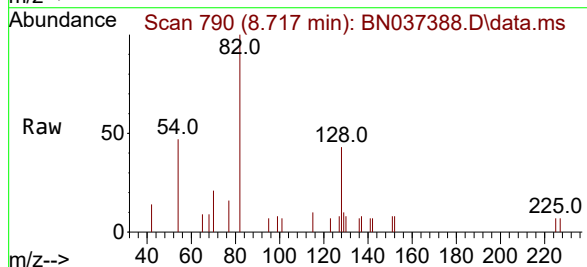
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

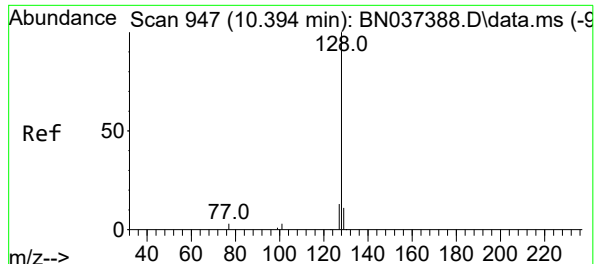
Tgt Ion:	136	Resp:	4565
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.4	15.6
54	7.0	5.6	8.4
68	5.7	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:	82	Resp:	1419
Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	47.1	37.7	56.5





#9

Naphthalene

Concen: 0.388 ng

RT: 10.394 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

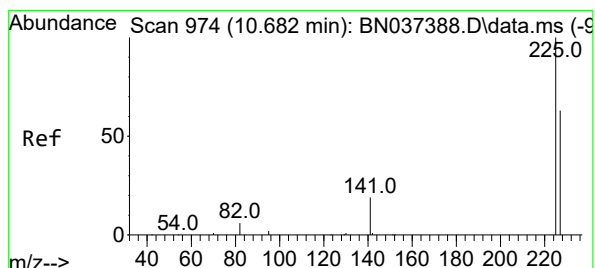
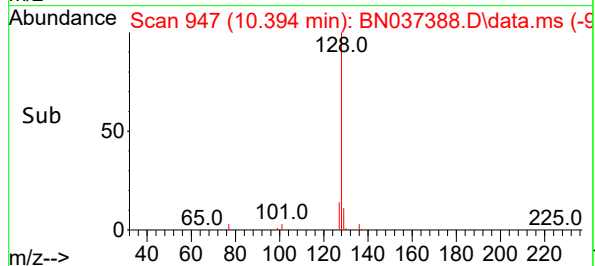
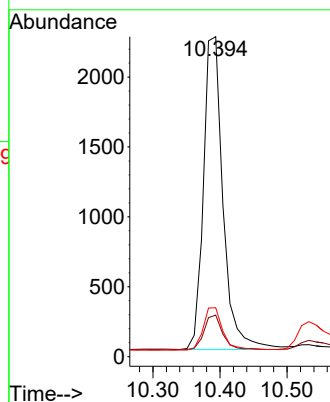
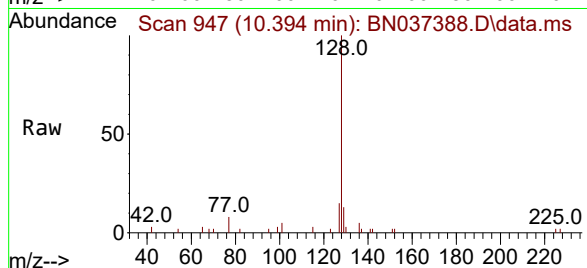
Tgt Ion:128 Resp: 4559

Ion Ratio Lower Upper

128 100

129 13.0 10.4 15.6

127 15.3 12.2 18.4



#10

Hexachlorobutadiene

Concen: 0.405 ng

RT: 10.682 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

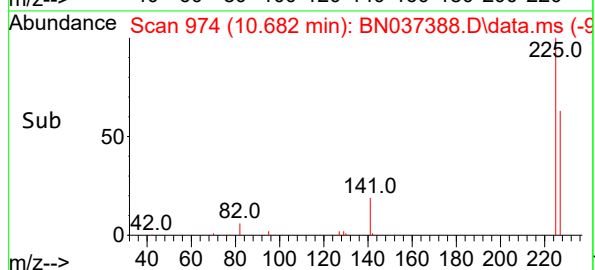
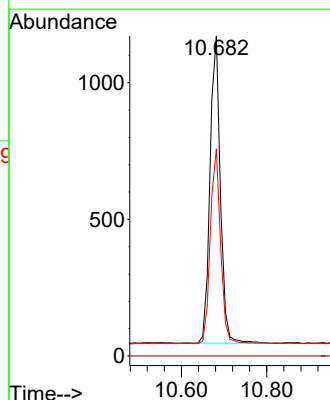
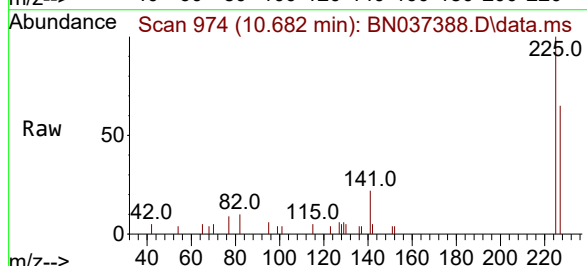
Tgt Ion:225 Resp: 1887

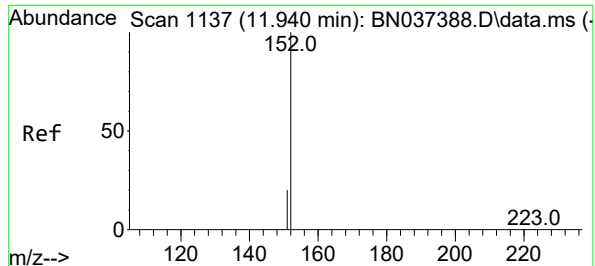
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.4 49.9 74.9

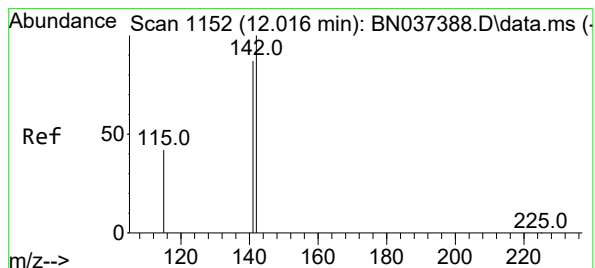
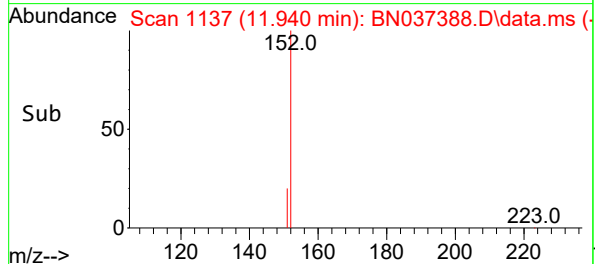
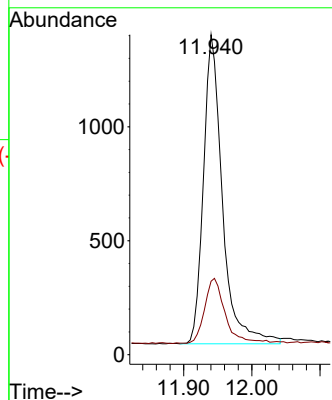
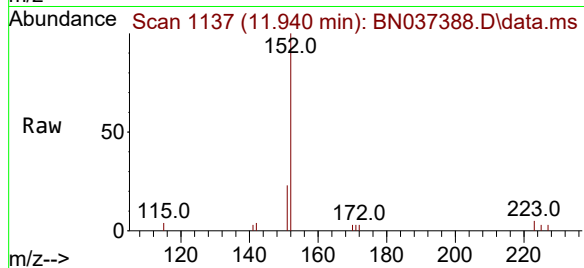




#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

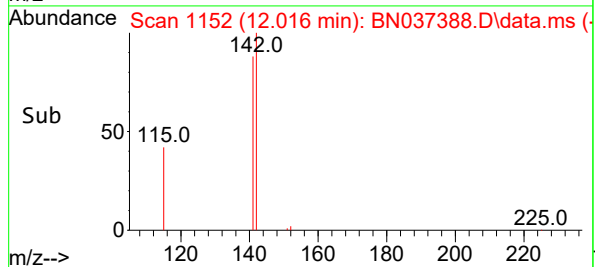
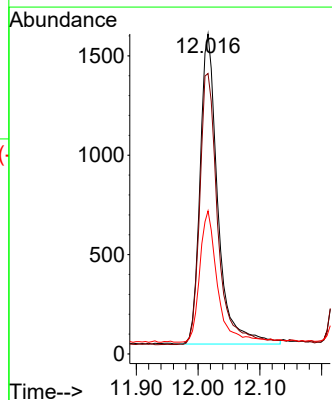
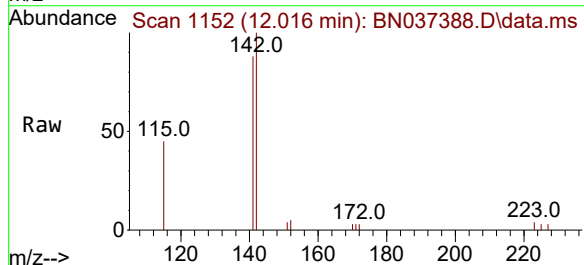
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

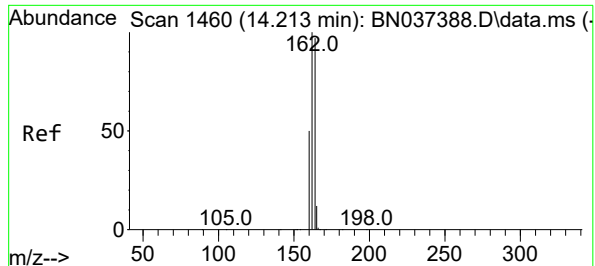
Tgt Ion:152 Resp: 2629
Ion Ratio Lower Upper
152 100
151 23.0 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:142 Resp: 3122
Ion Ratio Lower Upper
142 100
141 87.6 70.1 105.1
115 44.7 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

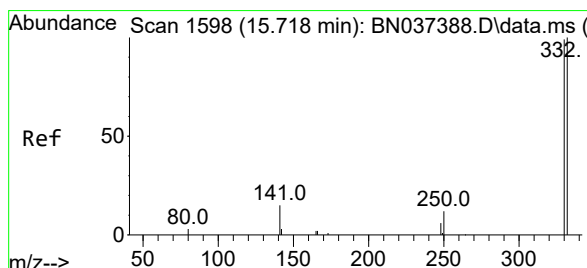
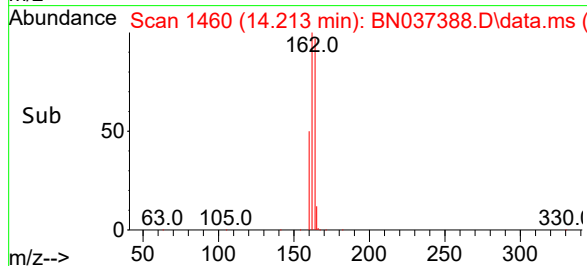
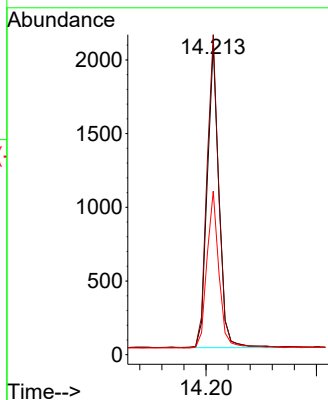
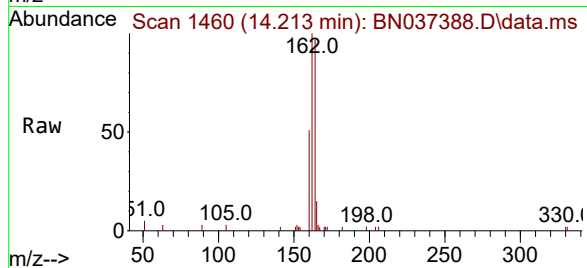
Tgt Ion:164 Resp: 3048

Ion Ratio Lower Upper

164 100

162 103.2 82.6 123.8

160 52.7 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.408 ng

RT: 15.718 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

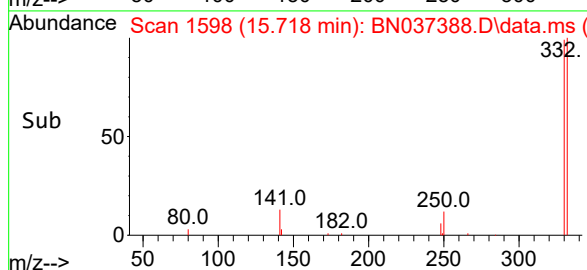
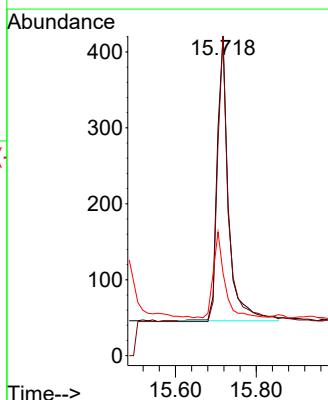
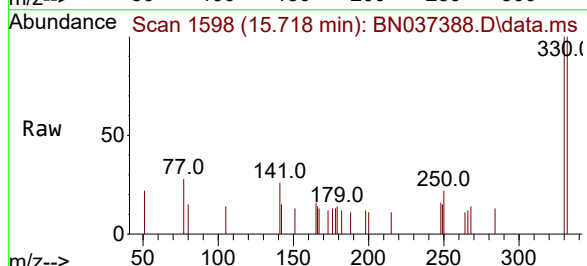
Tgt Ion:330 Resp: 729

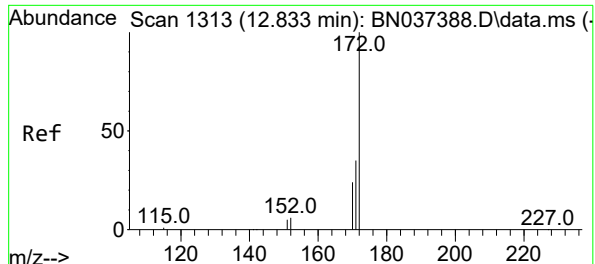
Ion Ratio Lower Upper

330 100

332 97.3 77.8 116.8

141 30.0 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 0.399 ng

RT: 12.833 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

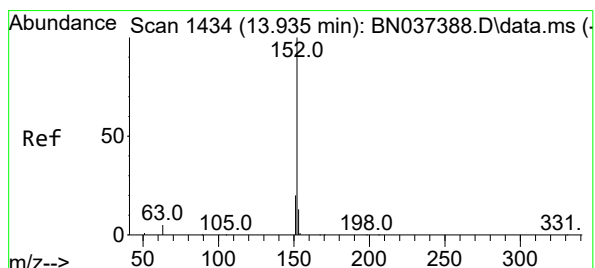
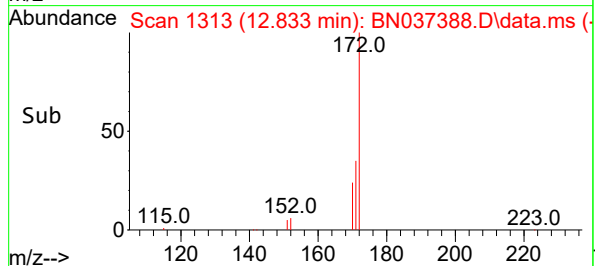
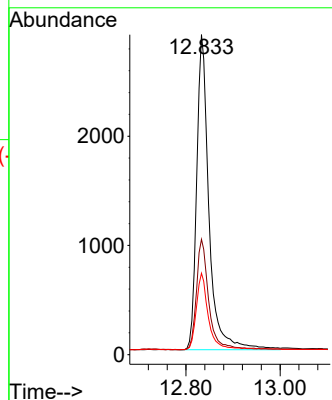
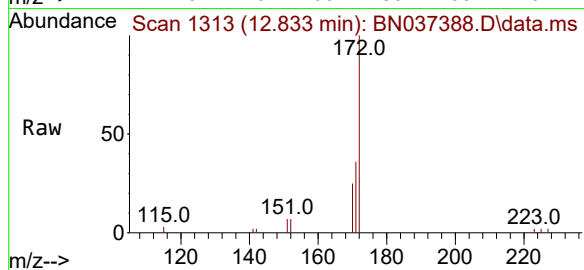
Tgt Ion:172 Resp: 5253

Ion Ratio Lower Upper

172 100

171 36.0 28.8 43.2

170 25.4 20.3 30.5



#16

Acenaphthylene

Concen: 0.380 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

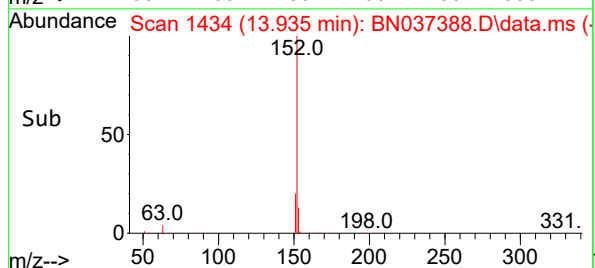
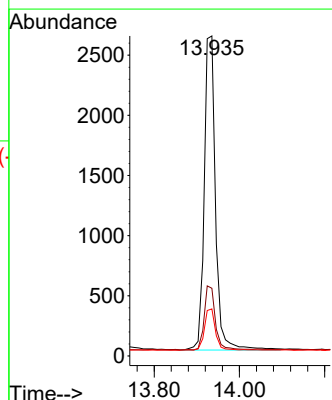
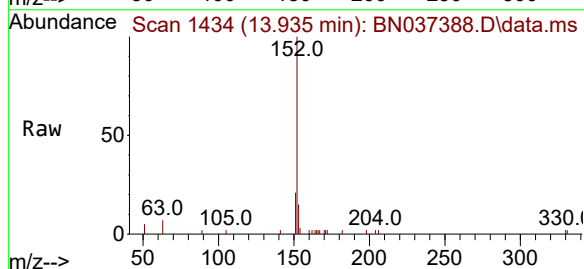
Tgt Ion:152 Resp: 4804

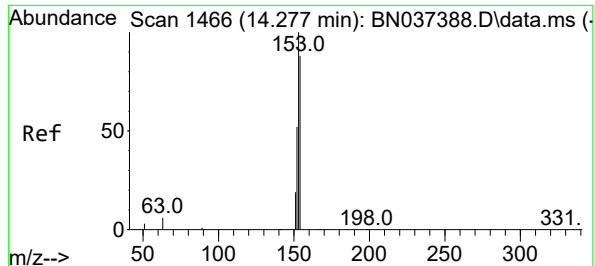
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.6

153 12.9 10.3 15.5





#17

Acenaphthene

Concen: 0.386 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

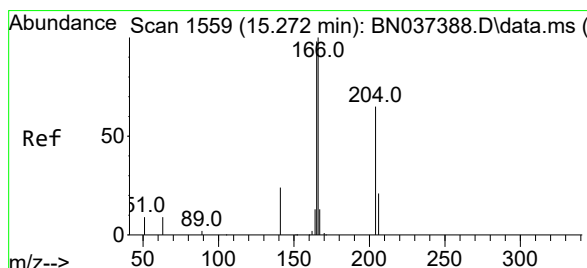
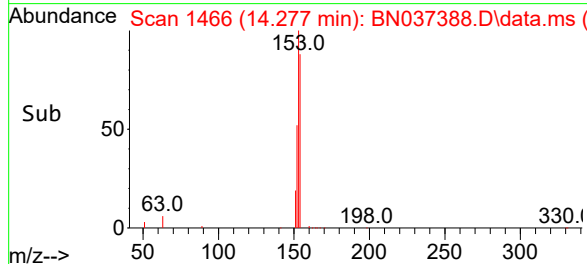
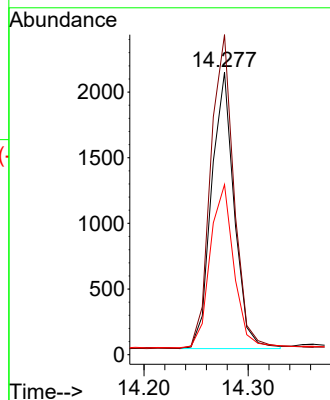
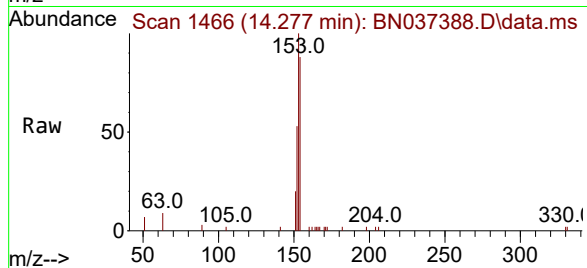
Tgt Ion:154 Resp: 3185

Ion Ratio Lower Upper

154 100

153 118.2 94.6 141.8

152 62.7 50.2 75.2



#18

Fluorene

Concen: 0.386 ng

RT: 15.272 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

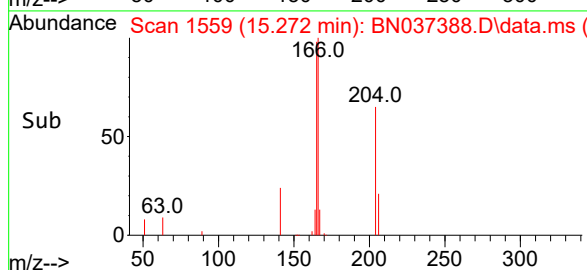
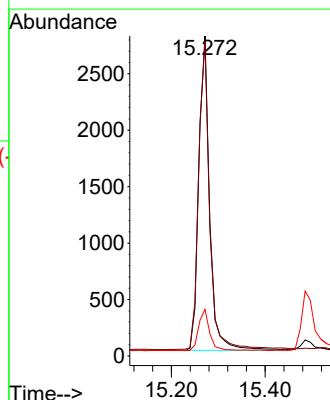
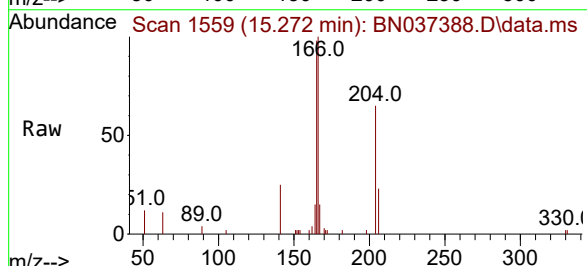
Tgt Ion:166 Resp: 4498

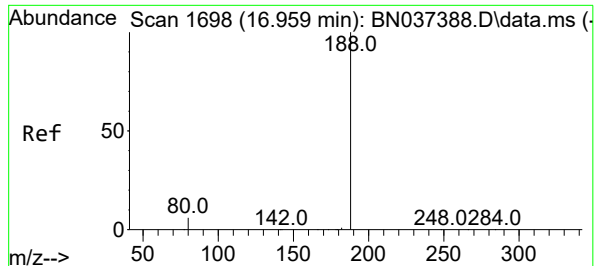
Ion Ratio Lower Upper

166 100

165 99.3 79.4 119.2

167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

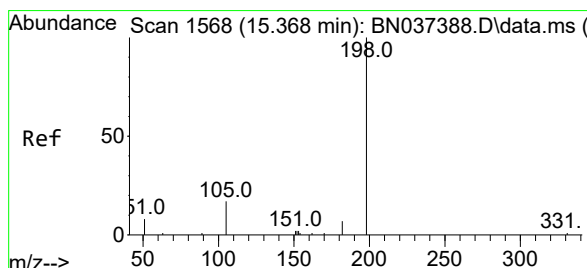
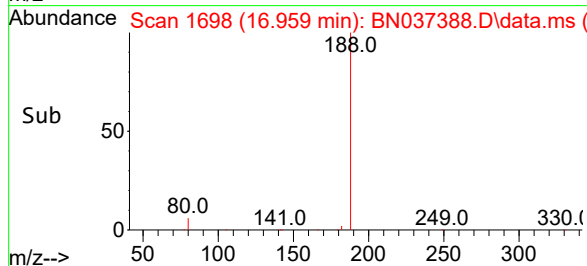
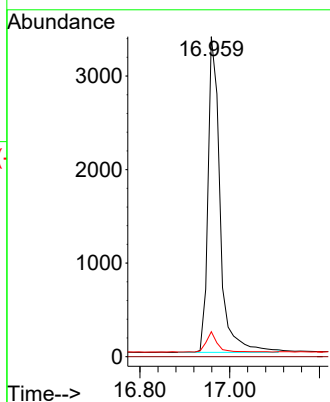
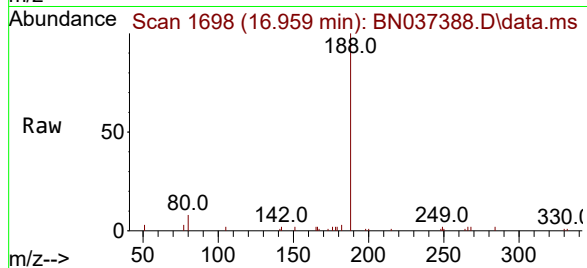
Tgt Ion:188 Resp: 6284

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.8 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.331 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

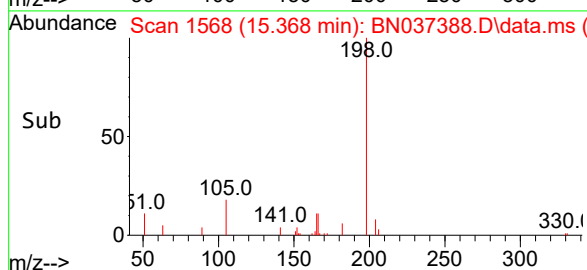
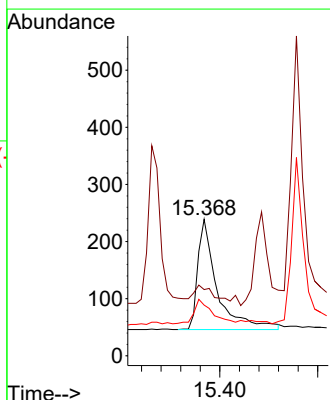
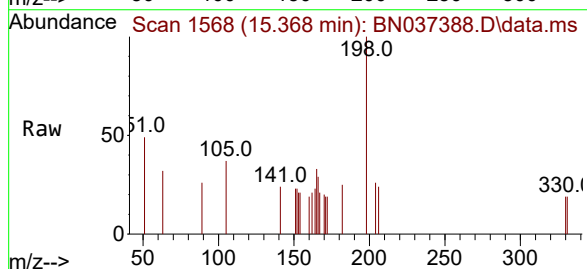
Tgt Ion:198 Resp: 535

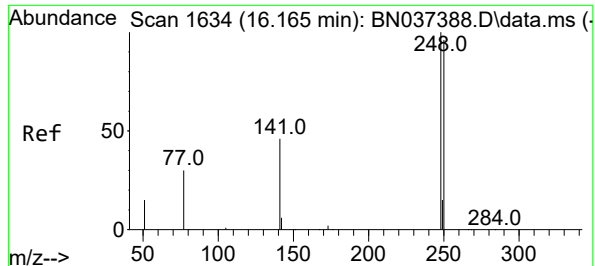
Ion Ratio Lower Upper

198 100

51 48.5 38.8 58.2

105 37.2 29.8 44.6

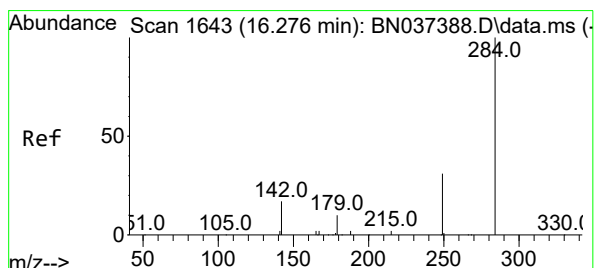
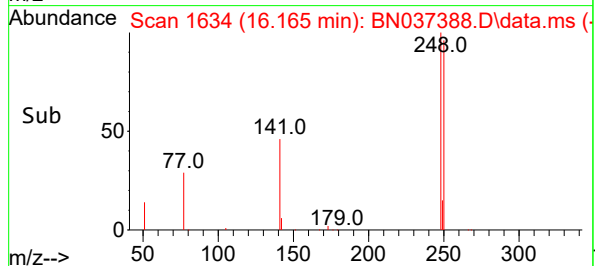
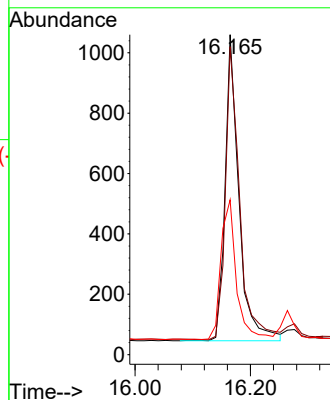
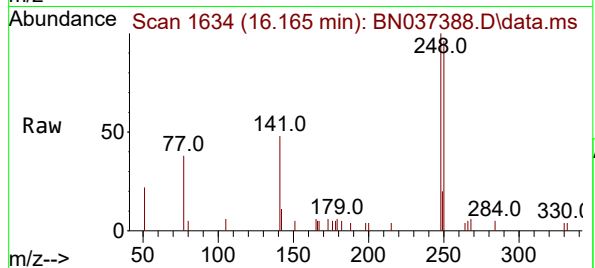




#21
4-Bromophenyl-phenylether
Concen: 0.382 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

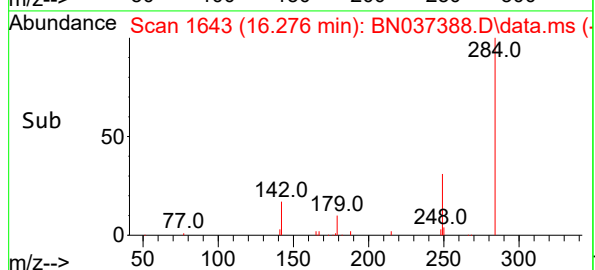
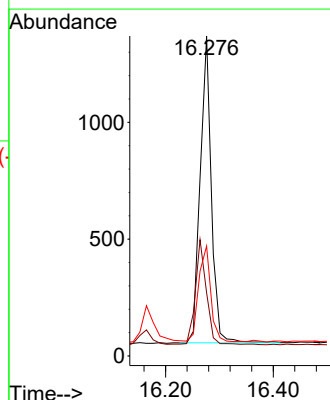
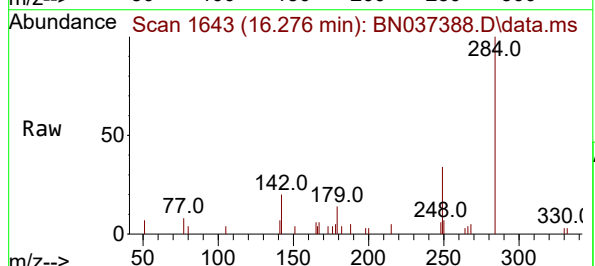
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

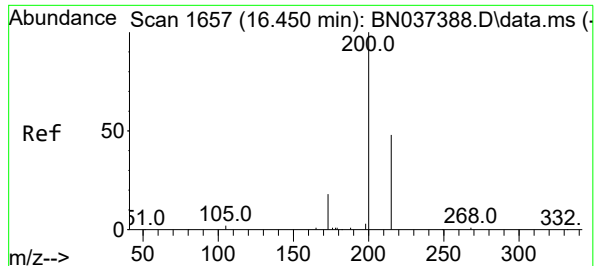
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.2	77.0	115.4
141	48.4	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.0	27.2	40.8
249	33.4	26.7	40.1





#23

Atrazine

Concen: 0.380 ng

RT: 16.450 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

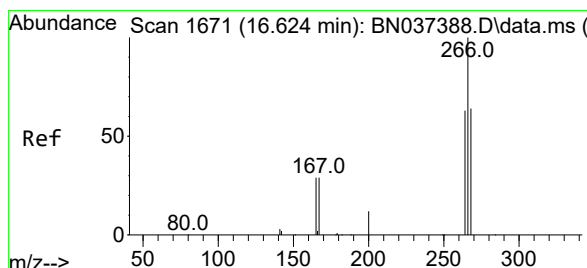
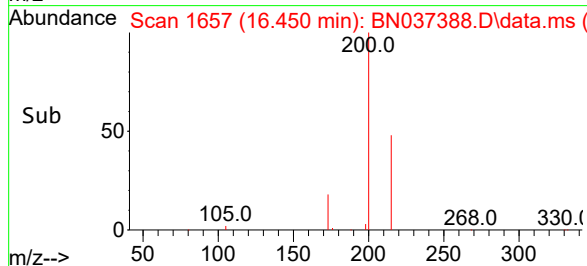
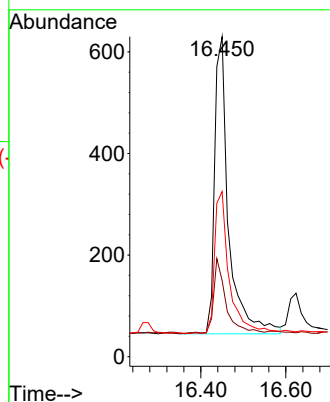
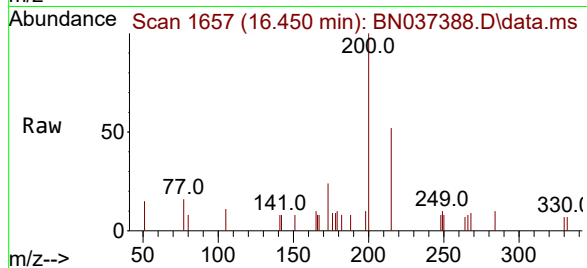
Tgt Ion:200 Resp: 1336

Ion Ratio Lower Upper

200 100

173 23.8 19.0 28.6

215 51.6 41.3 61.9



#24

Pentachlorophenol

Concen: 0.378 ng

RT: 16.624 min Scan# 1671

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

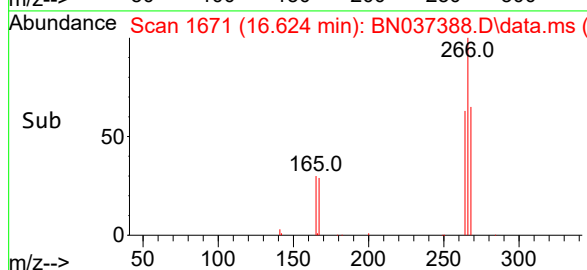
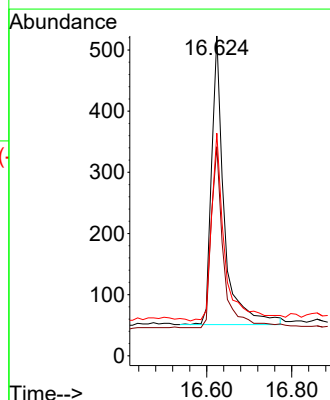
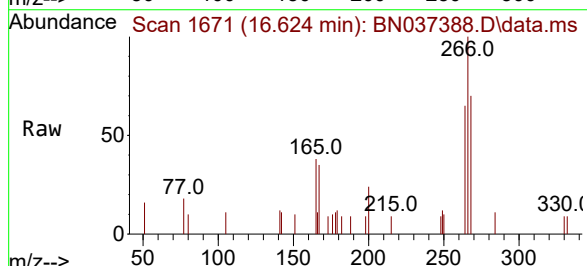
Tgt Ion:266 Resp: 973

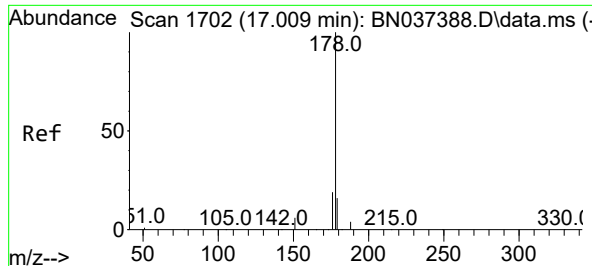
Ion Ratio Lower Upper

266 100

264 60.4 49.2 73.8

268 67.3 54.2 81.4

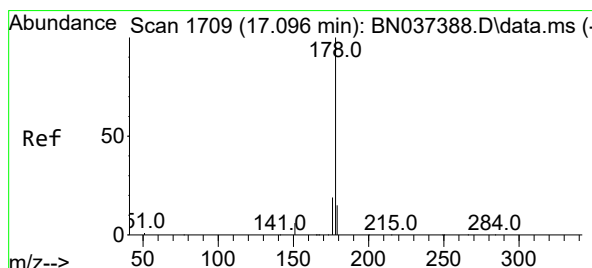
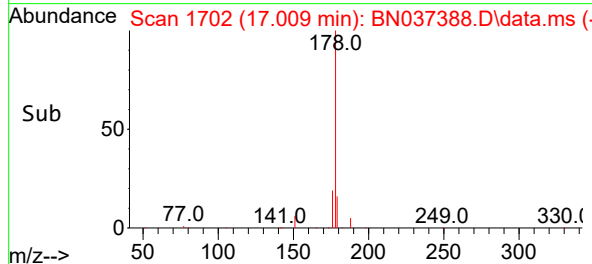
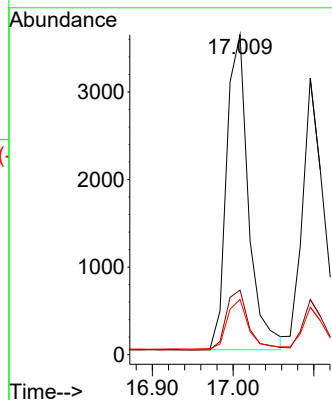
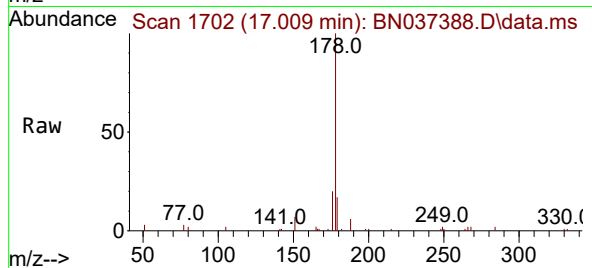




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

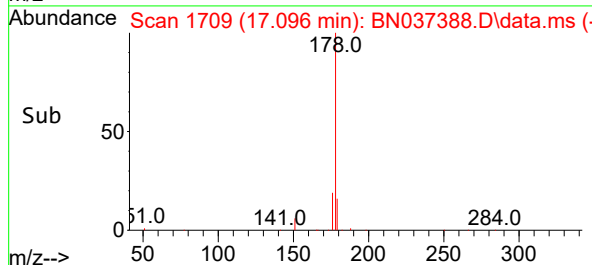
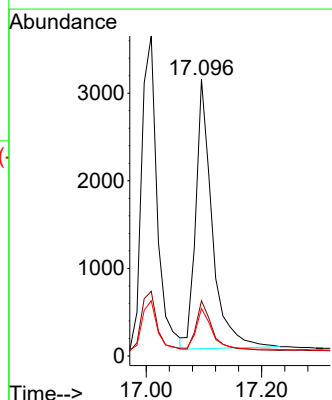
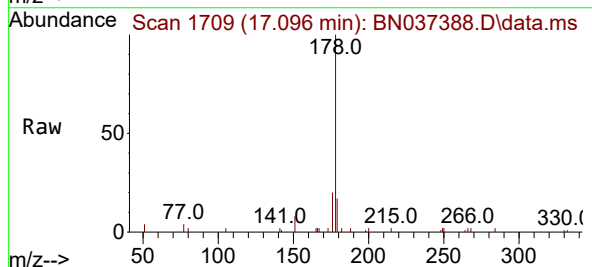
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

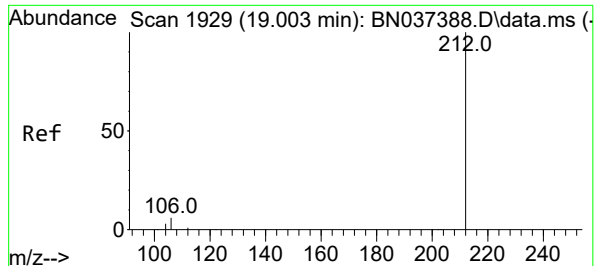
Tgt Ion:178 Resp: 6787
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 16.0 12.8 19.2



#26
Anthracene
Concen: 0.374 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:178 Resp: 6087
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.371 ng

RT: 19.003 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

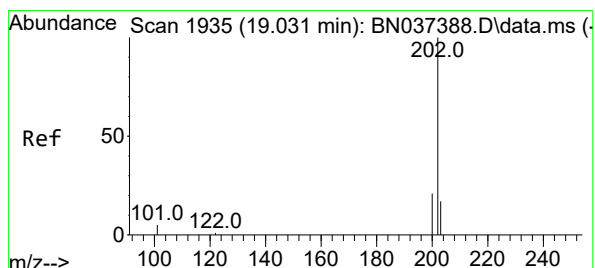
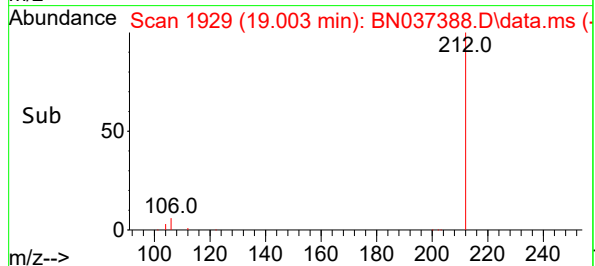
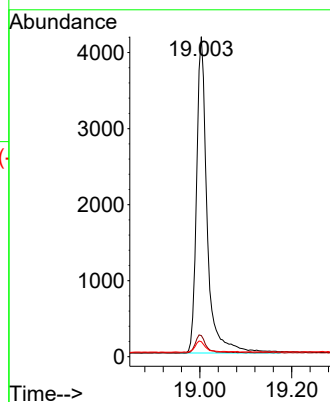
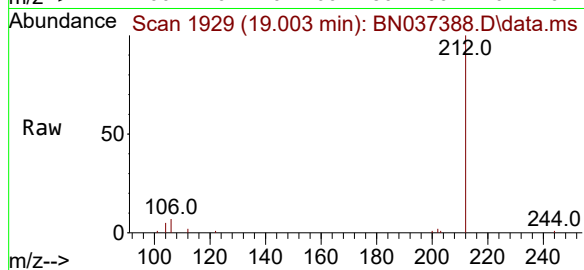
Tgt Ion:212 Resp: 6680

Ion Ratio Lower Upper

212 100

106 5.6 4.5 6.7

104 3.4 2.7 4.1



#28

Fluoranthene

Concen: 0.378 ng

RT: 19.031 min Scan# 1935

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

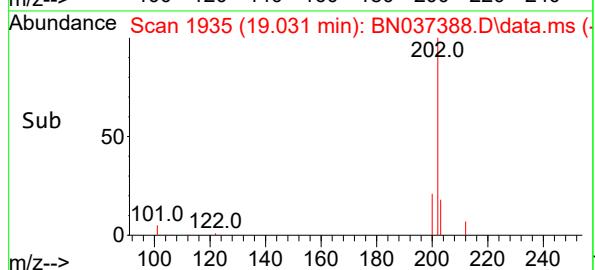
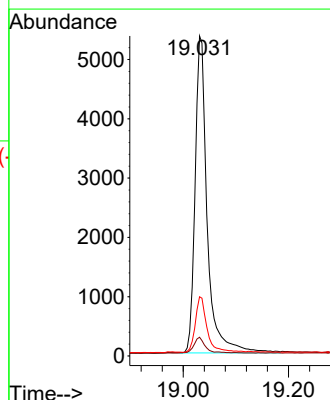
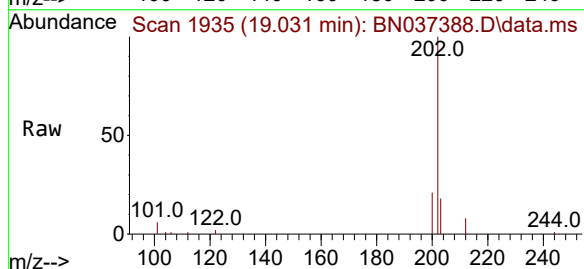
Tgt Ion:202 Resp: 8557

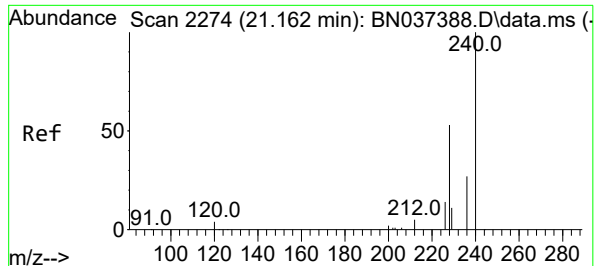
Ion Ratio Lower Upper

202 100

101 4.7 3.8 5.6

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

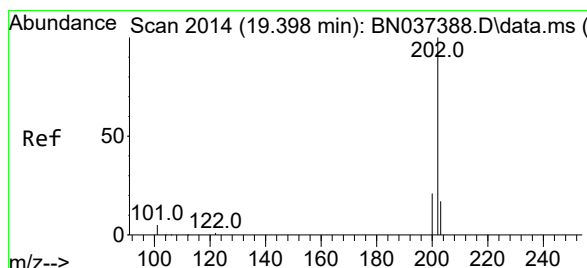
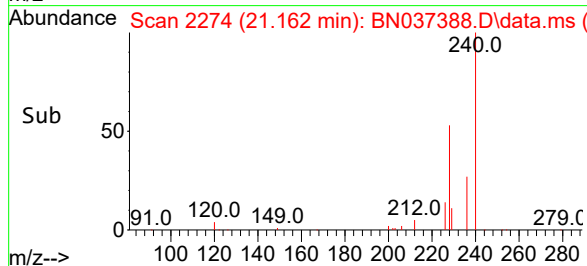
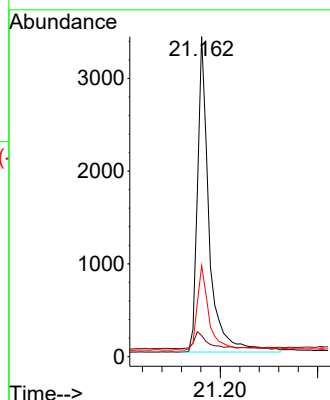
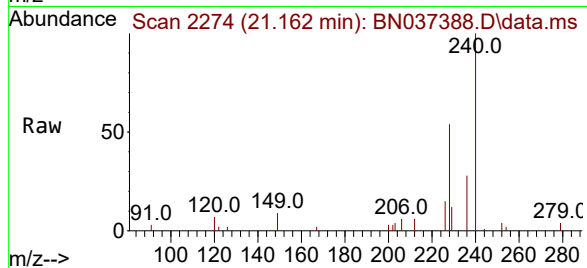
Tgt Ion:240 Resp: 5612

Ion Ratio Lower Upper

240 100

120 6.6 5.3 7.9

236 28.4 22.7 34.1



#30

Pyrene

Concen: 0.405 ng

RT: 19.398 min Scan# 2014

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

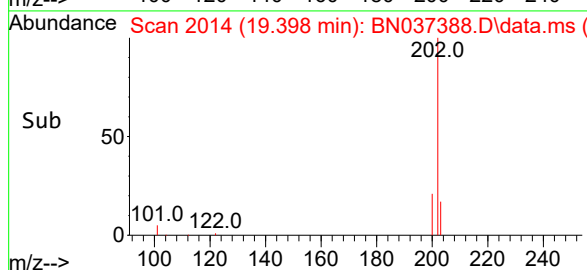
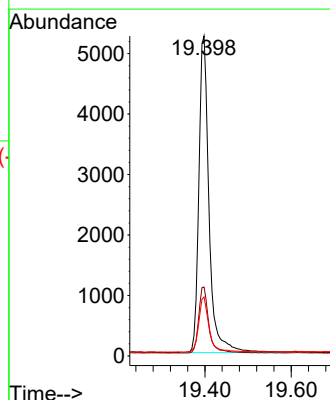
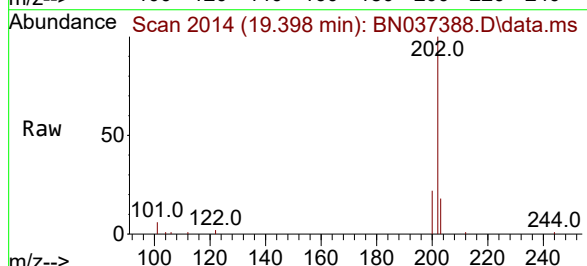
Tgt Ion:202 Resp: 8607

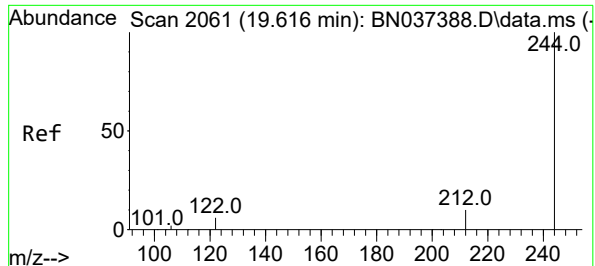
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.7 14.2 21.2

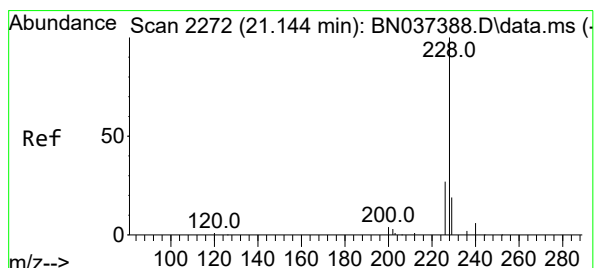
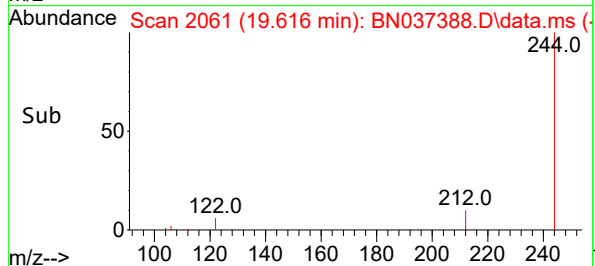
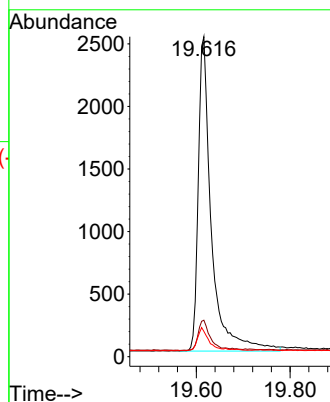
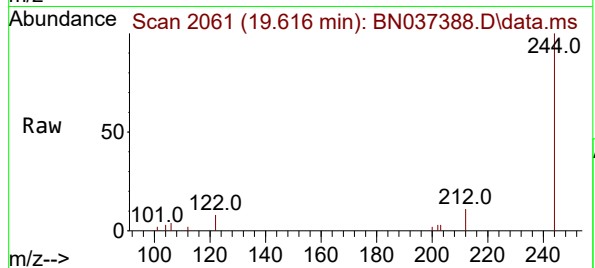




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.616 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

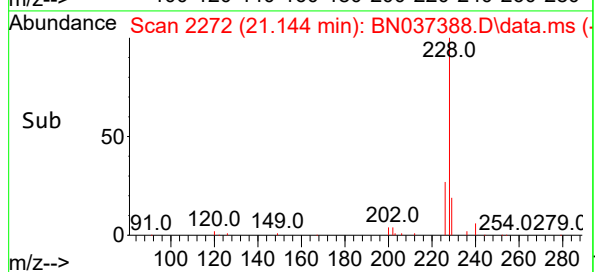
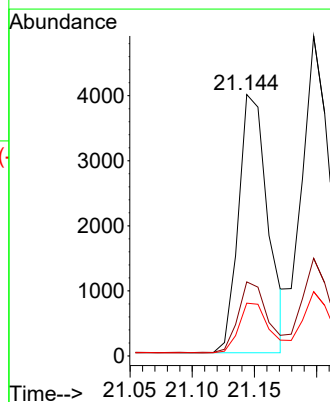
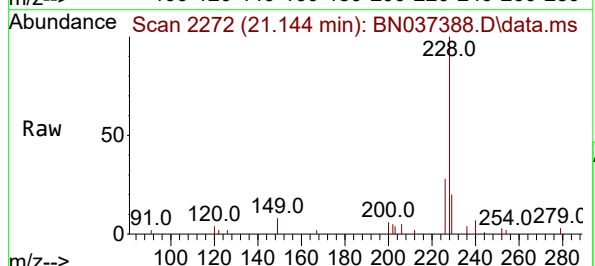
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

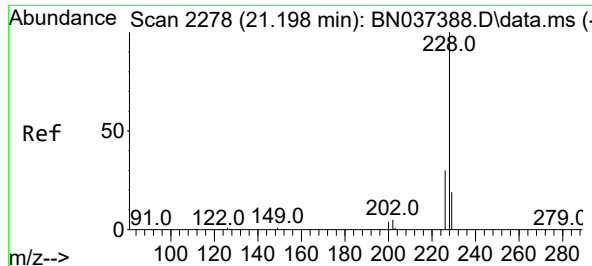
Tgt Ion:244 Resp: 4873
Ion Ratio Lower Upper
244 100
212 11.4 9.1 13.7
122 7.9 6.3 9.5



#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:228 Resp: 6549
Ion Ratio Lower Upper
228 100
226 28.3 22.6 34.0
229 20.2 16.2 24.2





#33

Chrysene

Concen: 0.407 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

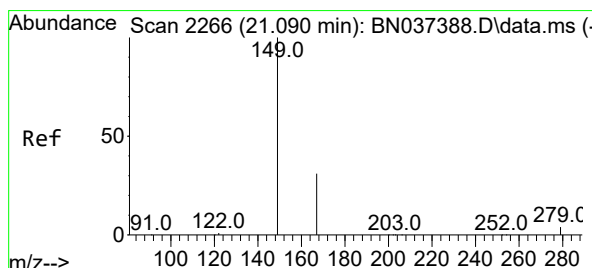
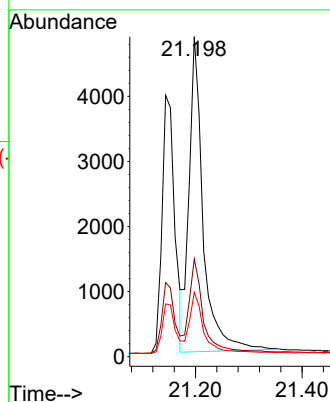
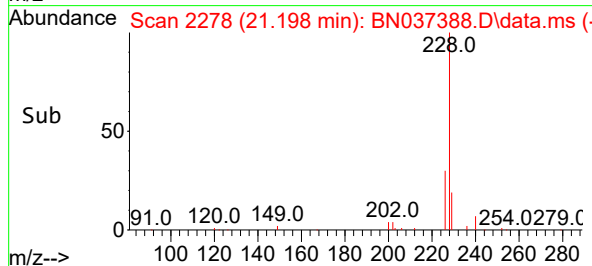
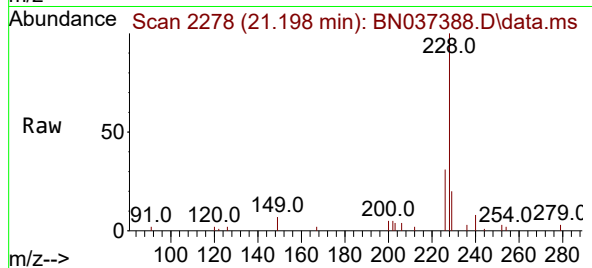
Tgt Ion:228 Resp: 8883

Ion Ratio Lower Upper

228 100

226 30.6 24.5 36.7

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.405 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

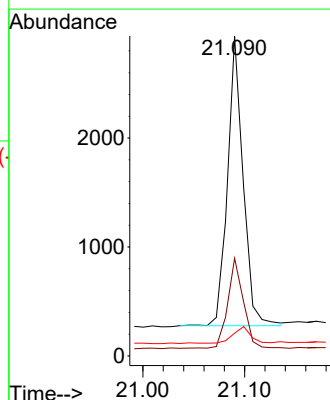
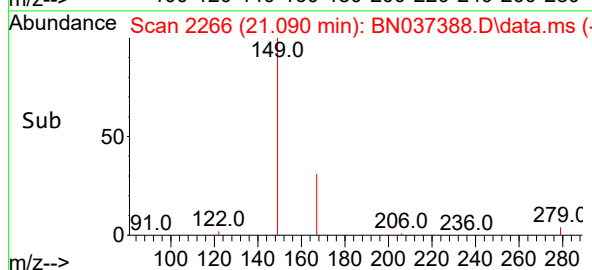
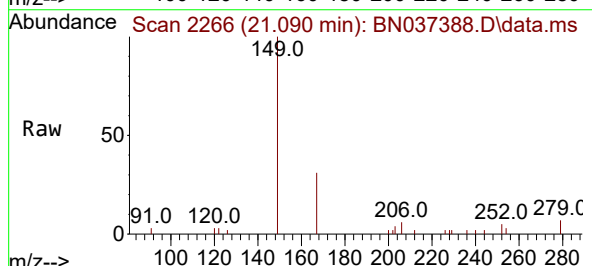
Tgt Ion:149 Resp: 2830

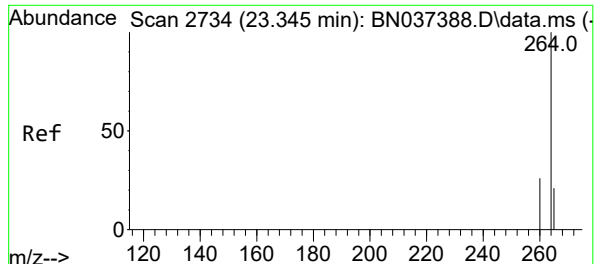
Ion Ratio Lower Upper

149 100

167 31.0 24.8 37.2

279 6.3 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

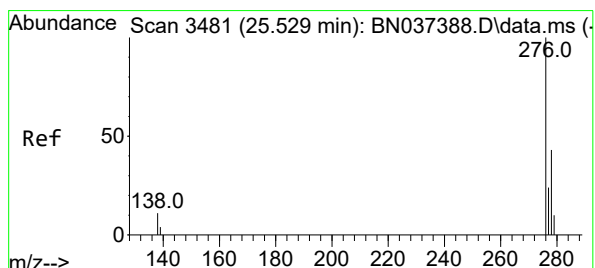
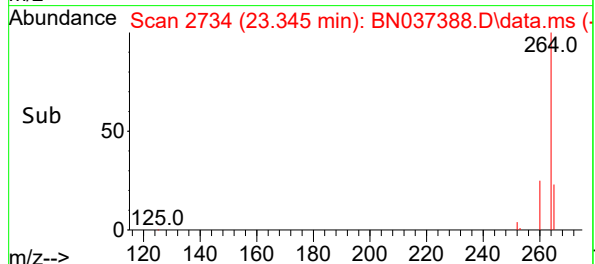
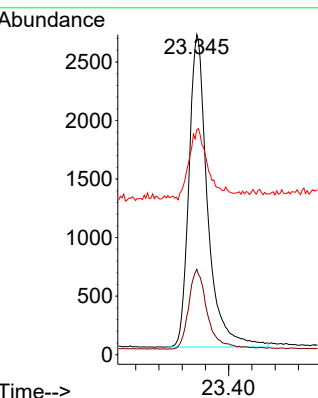
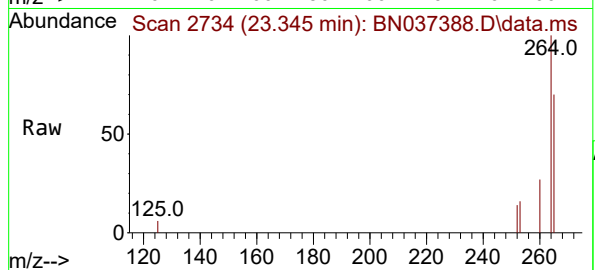
Tgt Ion:264 Resp: 5950

Ion Ratio Lower Upper

264 100

260 26.7 21.4 32.0

265 70.3 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.374 ng

RT: 25.529 min Scan# 3481

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

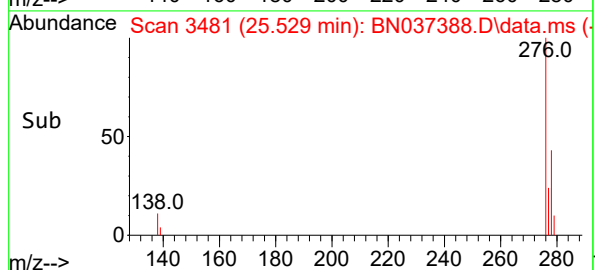
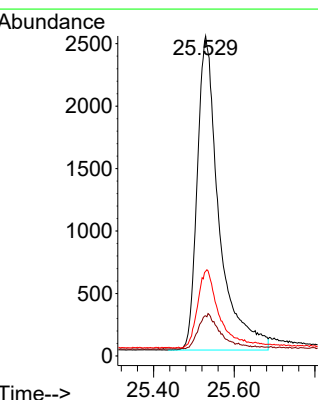
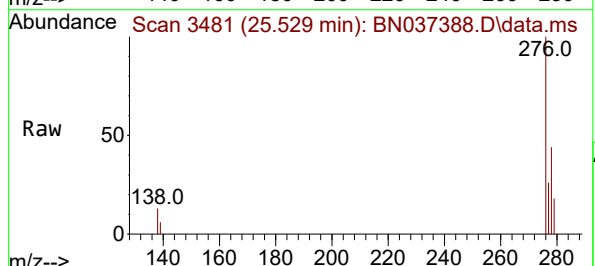
Tgt Ion:276 Resp: 9382

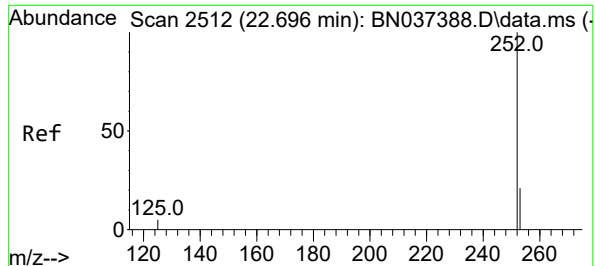
Ion Ratio Lower Upper

276 100

138 10.6 8.5 12.7

277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.374 ng

RT: 22.696 min Scan# 2512

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

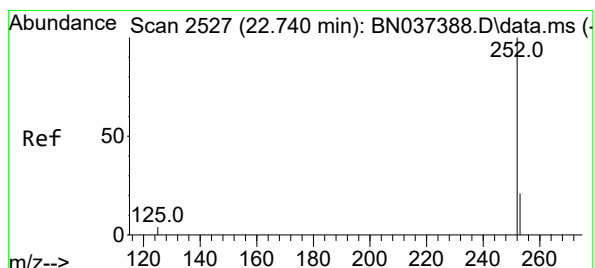
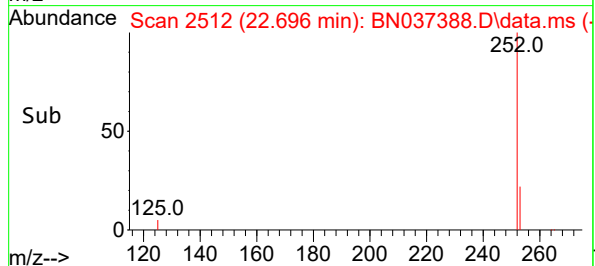
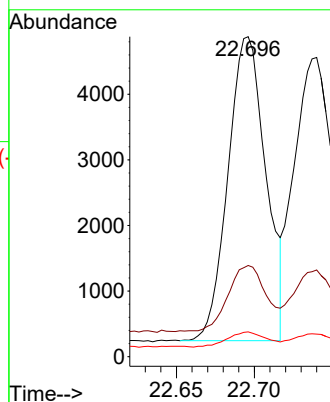
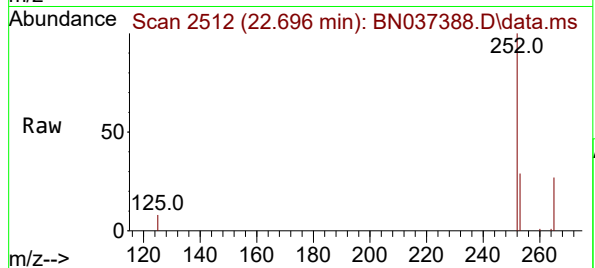
Tgt Ion:252 Resp: 7840

Ion Ratio Lower Upper

252 100

253 28.5 22.8 34.2

125 7.8 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.388 ng

RT: 22.740 min Scan# 2527

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

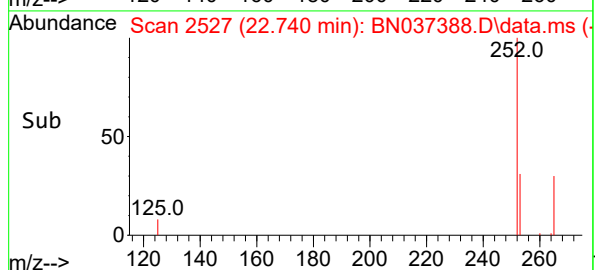
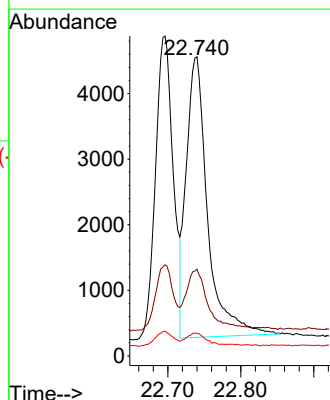
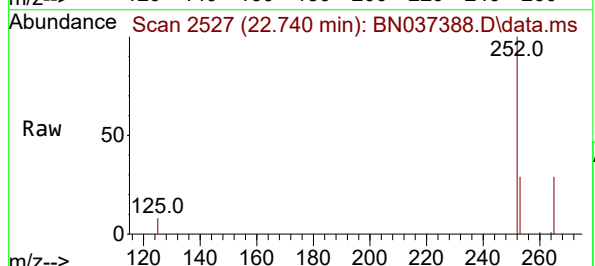
Tgt Ion:252 Resp: 8696

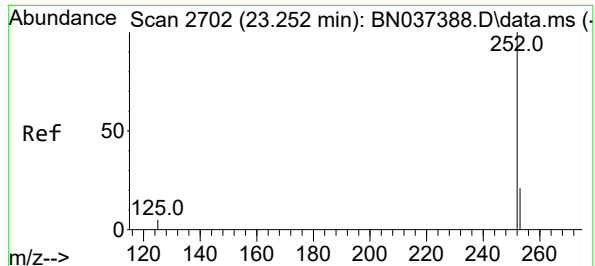
Ion Ratio Lower Upper

252 100

253 29.0 23.2 34.8

125 7.5 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.377 ng

RT: 23.252 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

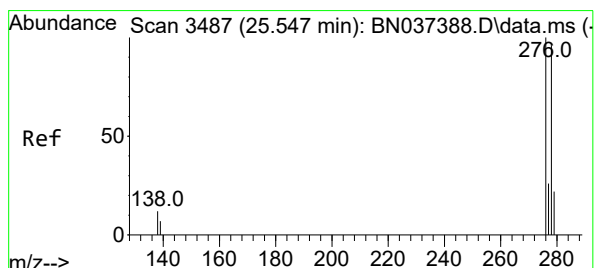
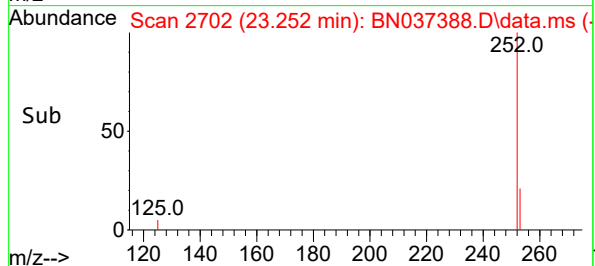
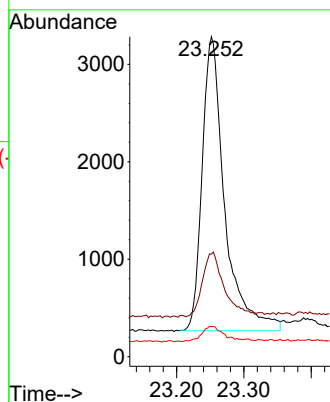
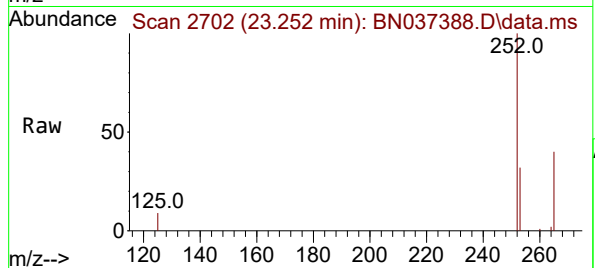
Tgt Ion:252 Resp: 7038

Ion Ratio Lower Upper

252 100

253 32.0 25.6 38.4

125 9.4 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 25.547 min Scan# 3487

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

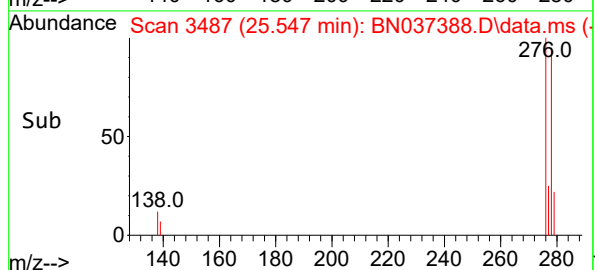
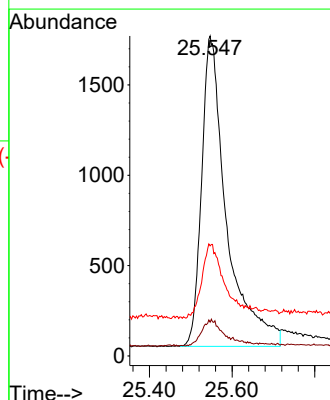
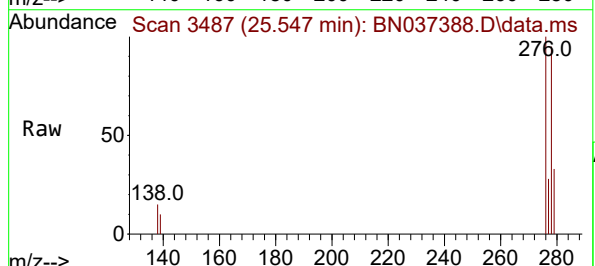
Tgt Ion:278 Resp: 7205

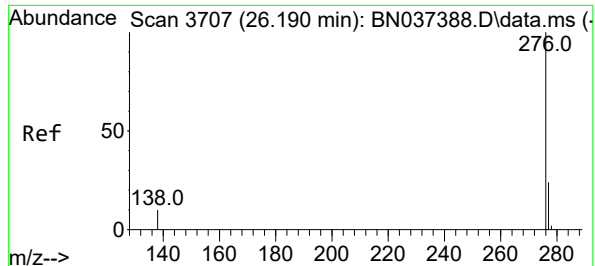
Ion Ratio Lower Upper

278 100

139 10.6 8.5 12.7

279 34.4 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 26.190 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037388.D

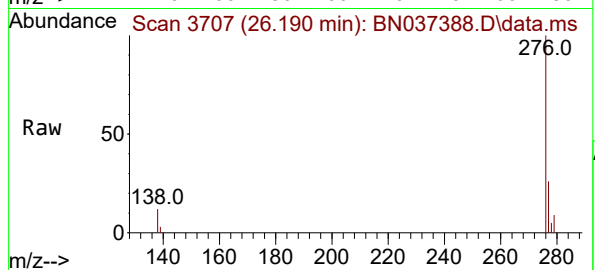
Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



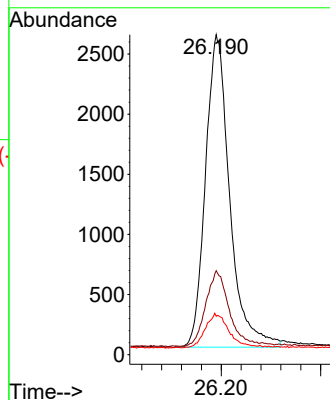
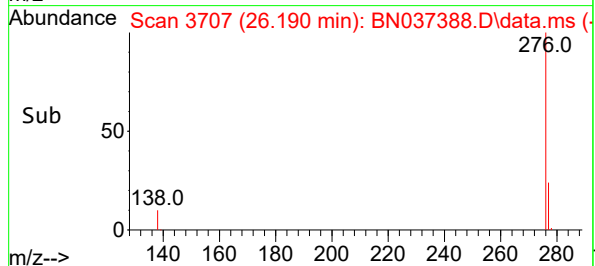
Tgt Ion:276 Resp: 8788

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

138 12.0 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037389.D
 Acq On : 26 Jun 2025 12:29
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 26 14:44:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

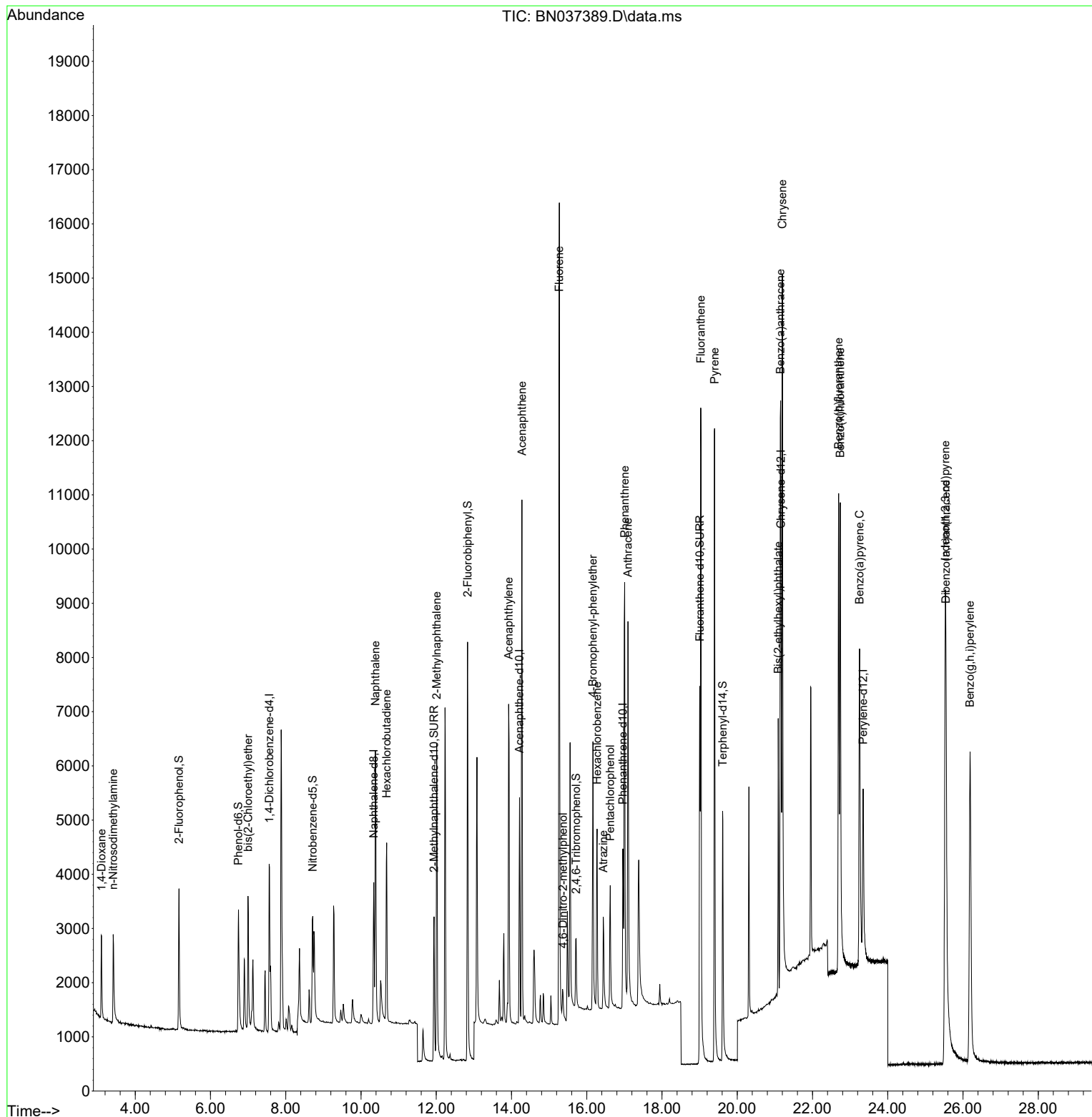
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1666	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3597	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2328	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	4756	0.400	ng	0.00
29) Chrysene-d12	21.162	240	4408	0.400	ng	0.00
35) Perylene-d12	23.345	264	4628	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	2321	0.723	ng	0.00
5) Phenol-d6	6.744	99	2457	0.738	ng	0.00
8) Nitrobenzene-d5	8.717	82	2126	0.735	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	4083	0.734	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	1046	0.766	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	7691	0.765	ng	0.00
27) Fluoranthene-d10	19.003	212	9775	0.717	ng	0.00
31) Terphenyl-d14	19.612	244	7017	0.747	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1220	0.817	ng	97
3) n-Nitrosodimethylamine	3.415	42	1219	0.781	ng	# 98
6) bis(2-Chloroethyl)ether	6.997	93	2313	0.781	ng	99
9) Naphthalene	10.383	128	6991	0.755	ng	98
10) Hexachlorobutadiene	10.682	225	2877	0.783	ng	# 99
12) 2-Methylnaphthalene	12.011	142	4762	0.747	ng	97
16) Acenaphthylene	13.925	152	7160	0.742	ng	99
17) Acenaphthene	14.277	154	4696	0.745	ng	100
18) Fluorene	15.272	166	6613	0.743	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	826	0.676	ng	# 79
21) 4-Bromophenyl-phenylether	16.165	248	2555	0.762	ng	96
22) Hexachlorobenzene	16.276	284	2768	0.767	ng	99
23) Atrazine	16.438	200	1939	0.730	ng	97
24) Pentachlorophenol	16.624	266	1406	0.722	ng	96
25) Phenanthrene	17.009	178	9870	0.737	ng	99
26) Anthracene	17.096	178	9124	0.741	ng	99
28) Fluoranthene	19.031	202	12556	0.734	ng	100
30) Pyrene	19.398	202	12616	0.756	ng	100
32) Benzo(a)anthracene	21.144	228	10155	0.733	ng	100
33) Chrysene	21.198	228	13144	0.767	ng	100
34) Bis(2-ethylhexyl)phtha...	21.090	149	4107	0.749	ng	99
36) Indeno(1,2,3-cd)pyrene	25.529	276	14993	0.768	ng	98
37) Benzo(b)fluoranthene	22.693	252	12221	0.749	ng	96
38) Benzo(k)fluoranthene	22.737	252	13232	0.759	ng	96
39) Benzo(a)pyrene	23.252	252	10863	0.748	ng	95
40) Dibenzo(a,h)anthracene	25.547	278	11379	0.759	ng	94
41) Benzo(g,h,i)perylene	26.187	276	13535	0.756	ng	98

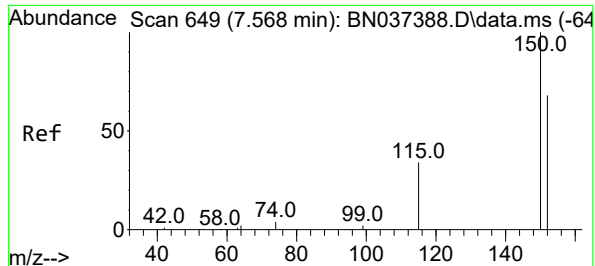
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037389.D
Acq On : 26 Jun 2025 12:29
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

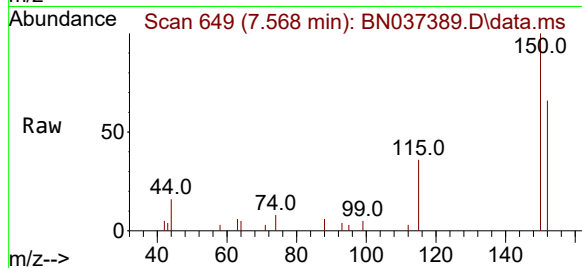
Quant Time: Jun 26 14:44:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration



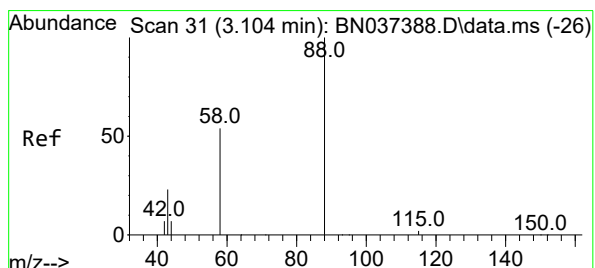
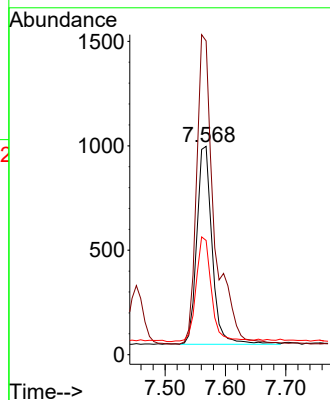
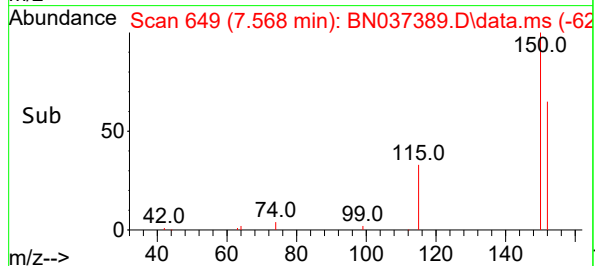


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

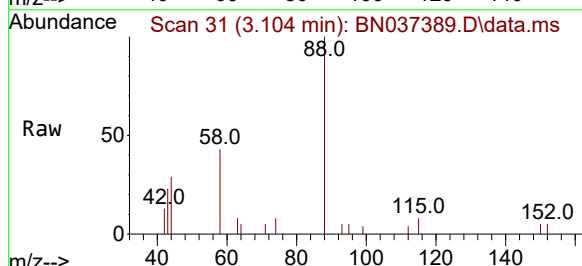
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



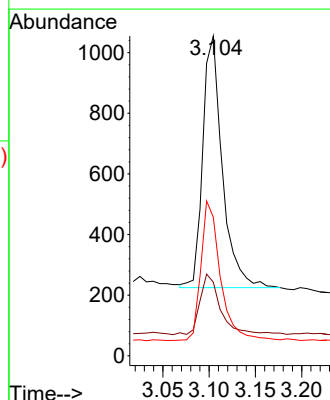
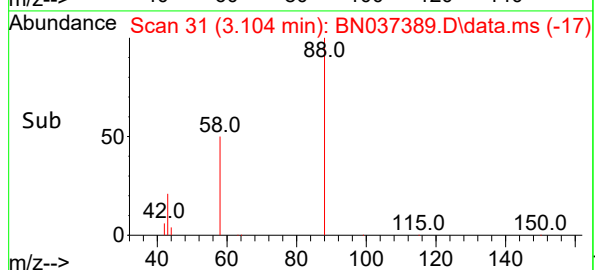
Tgt Ion: 152 Resp: 1666
Ion Ratio Lower Upper
152 100
150 150.7 116.2 174.2
115 54.9 42.9 64.3

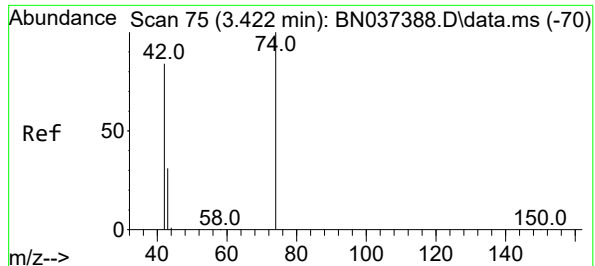


#2
1,4-Dioxane
Concen: 0.817 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29



Tgt Ion: 88 Resp: 1220
Ion Ratio Lower Upper
88 100
43 25.2 21.6 32.4
58 54.9 45.9 68.9

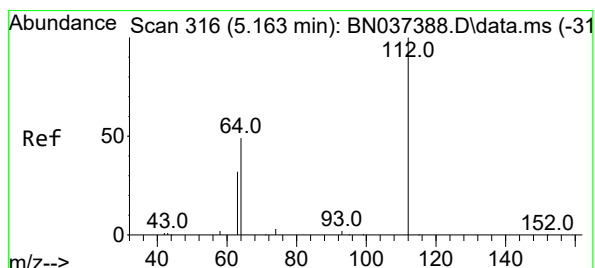
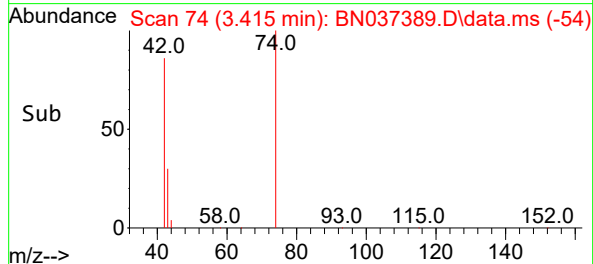
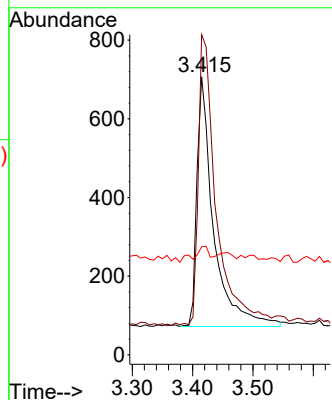
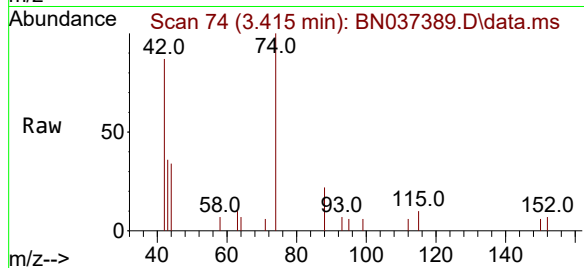




#3
n-Nitrosodimethylamine
Concen: 0.781 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

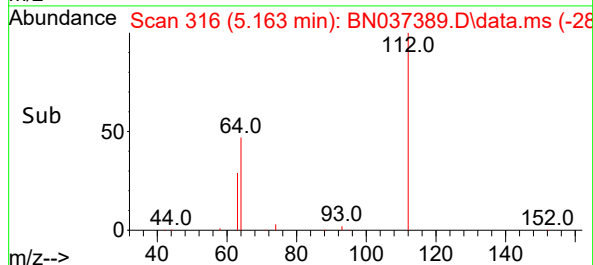
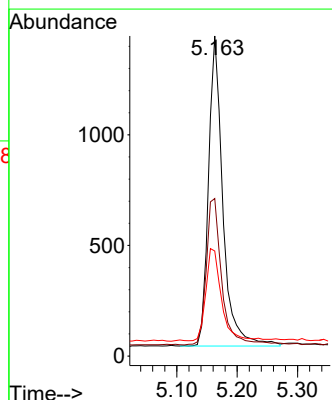
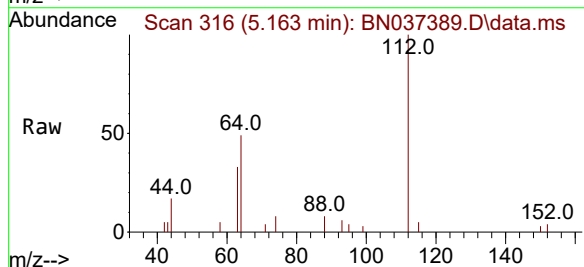
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

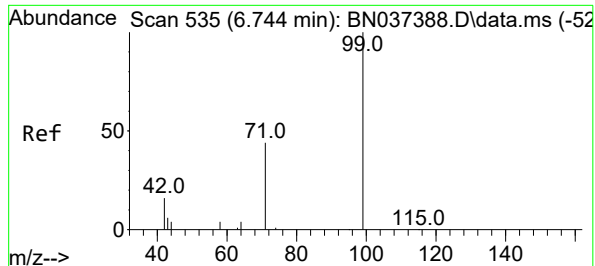
Tgt Ion: 42 Resp: 1219
Ion Ratio Lower Upper
42 100
74 123.9 97.8 146.8
44 6.2 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.723 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion: 112 Resp: 2321
Ion Ratio Lower Upper
112 100
64 51.5 40.3 60.5
63 32.2 26.1 39.1

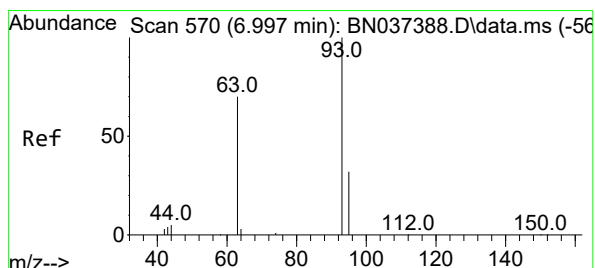
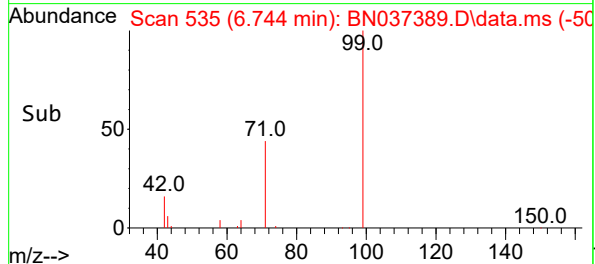
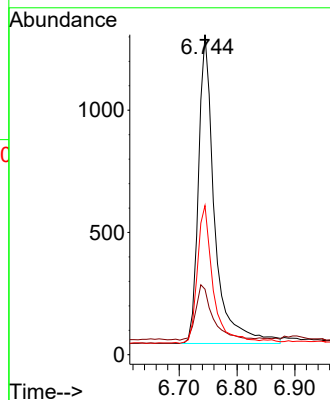
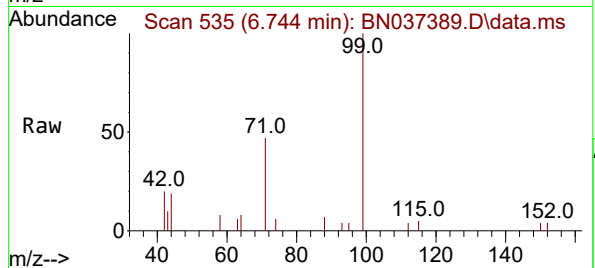




#5
Phenol-d6
Concen: 0.738 ng
RT: 6.744 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

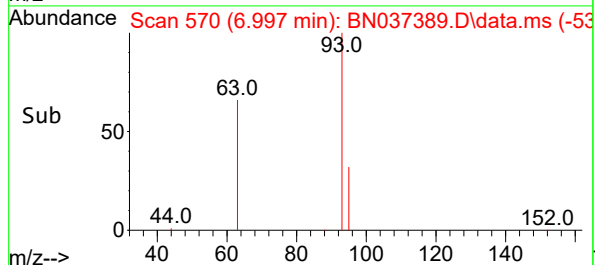
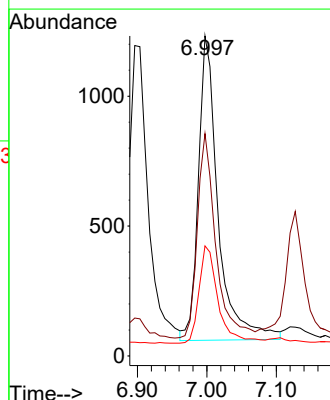
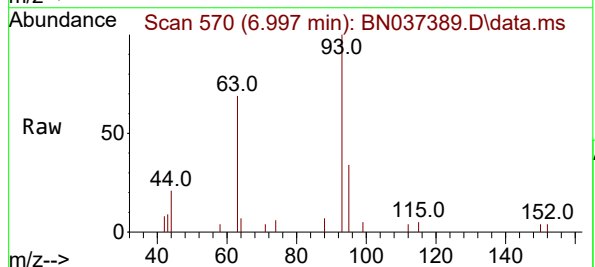
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

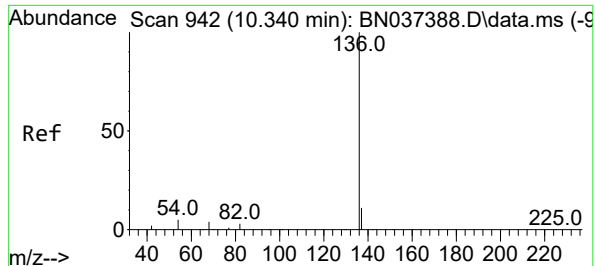
Tgt Ion: 99 Resp: 2457
Ion Ratio Lower Upper
99 100
42 18.7 15.6 23.4
71 43.0 35.8 53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.781 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion: 93 Resp: 2313
Ion Ratio Lower Upper
93 100
63 62.6 49.6 74.4
95 31.1 23.9 35.9

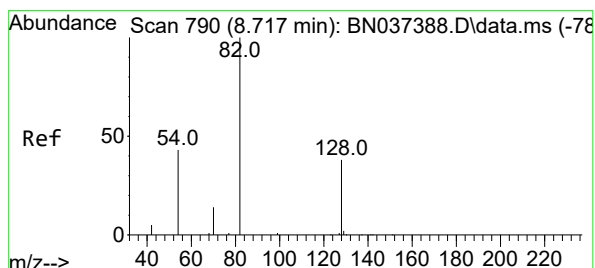
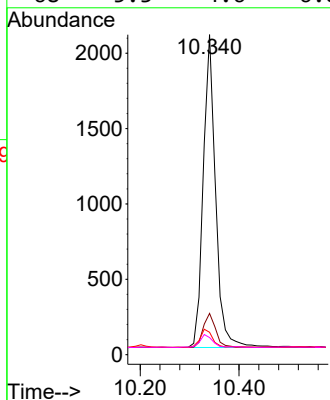
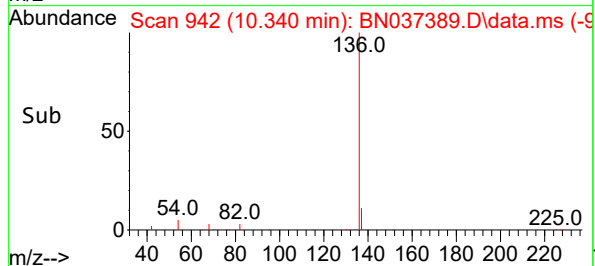
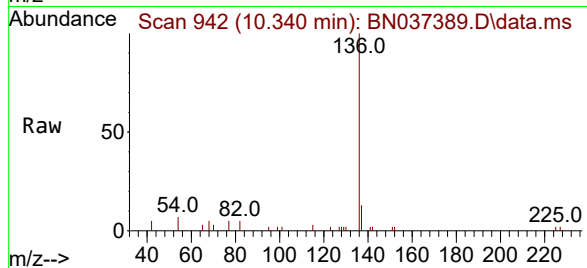




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

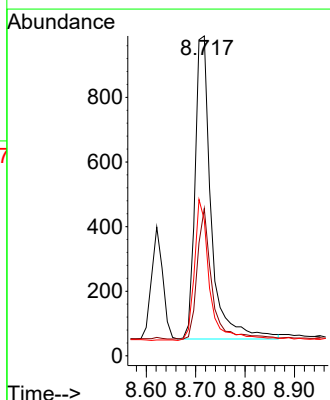
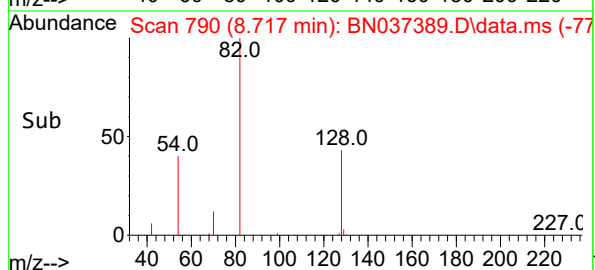
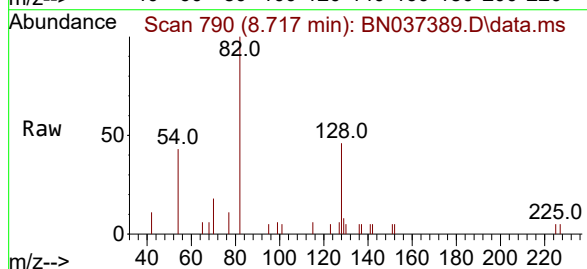
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

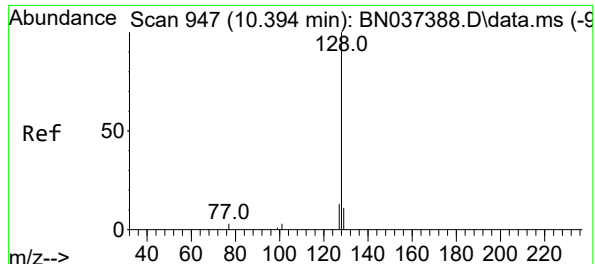
Tgt Ion:	136	Resp:	3597
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	7.0	5.6	8.4
68	5.3	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.735 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:	82	Resp:	2126
Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.0	51.0
54	42.5	37.7	56.5

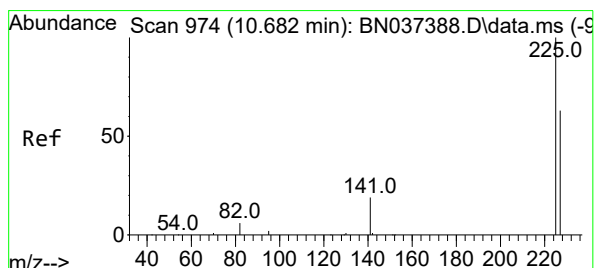
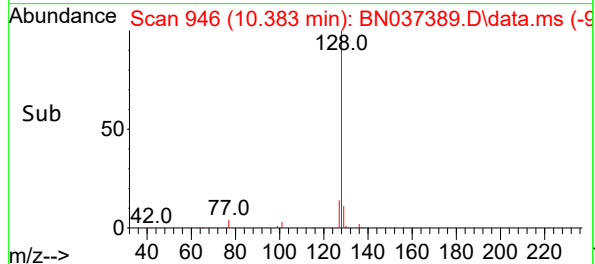
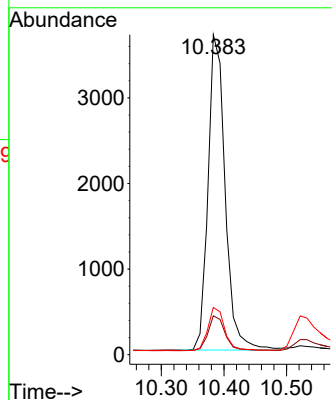
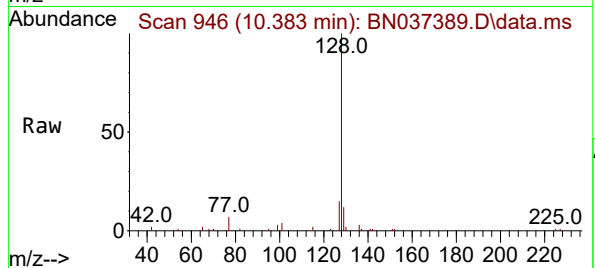




#9
Naphthalene
Concen: 0.755 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

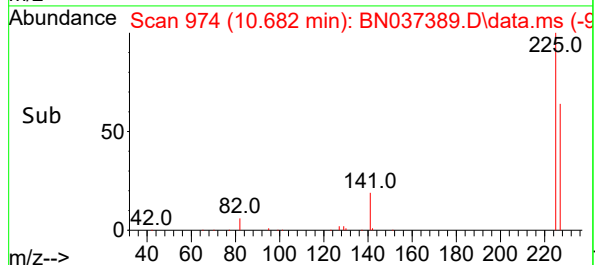
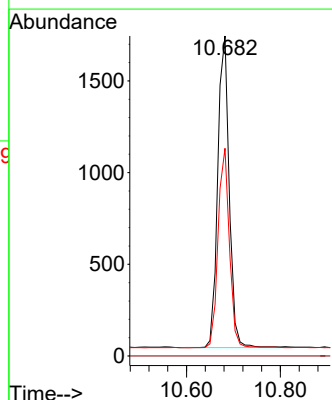
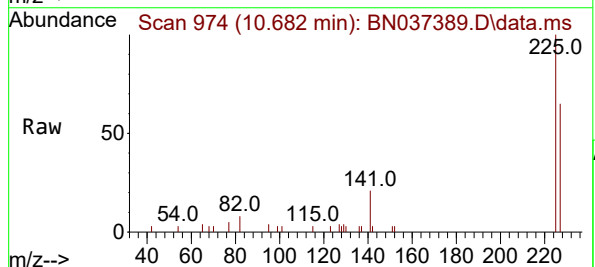
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

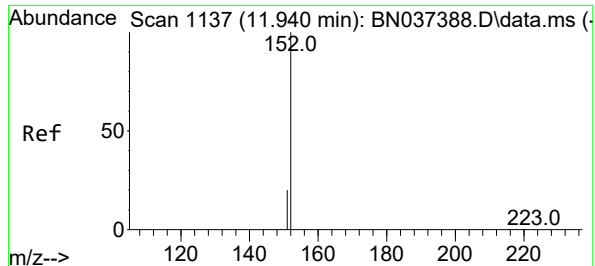
Tgt Ion:128 Resp: 6991
Ion Ratio Lower Upper
128 100
129 12.2 10.4 15.6
127 14.8 12.2 18.4



#10
Hexachlorobutadiene
Concen: 0.783 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:225 Resp: 2877
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 49.9 74.9

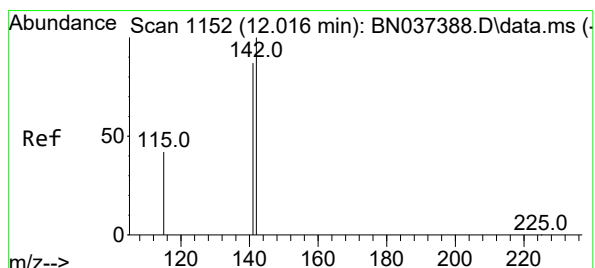
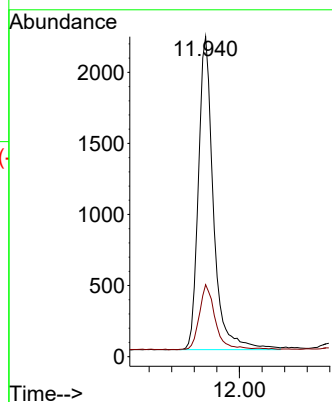
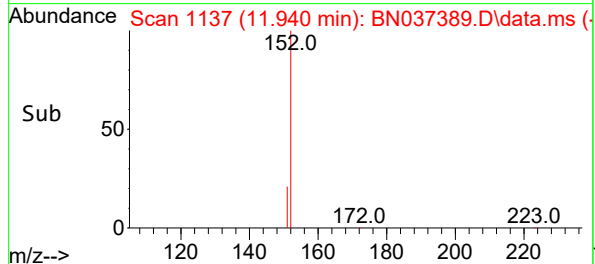
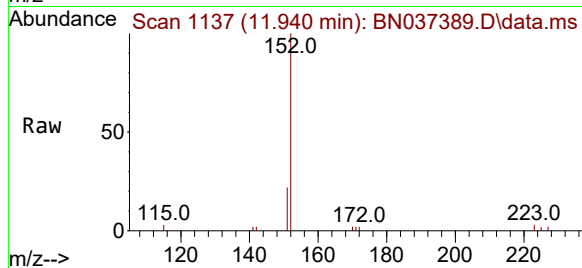




#11
2-Methylnaphthalene-d10
Concen: 0.734 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

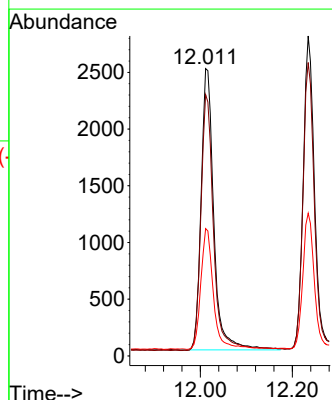
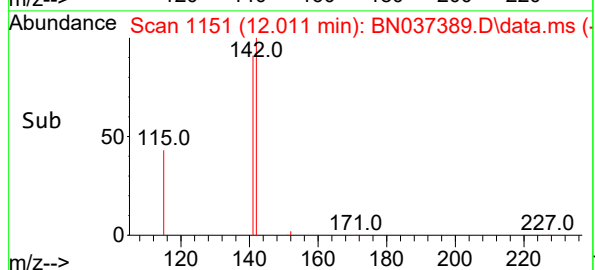
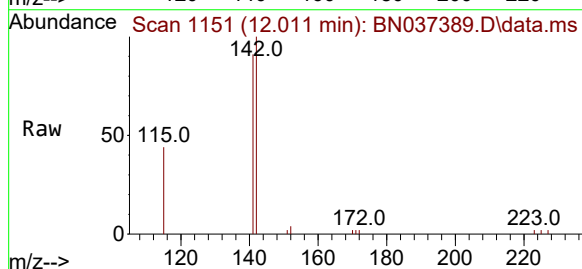
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

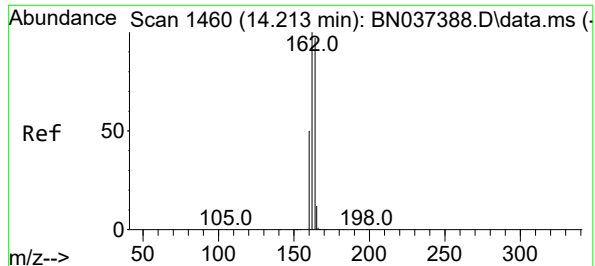
Tgt Ion:152 Resp: 4083
Ion Ratio Lower Upper
152 100
151 21.6 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.747 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:142 Resp: 4762
Ion Ratio Lower Upper
142 100
141 90.9 70.1 105.1
115 44.3 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

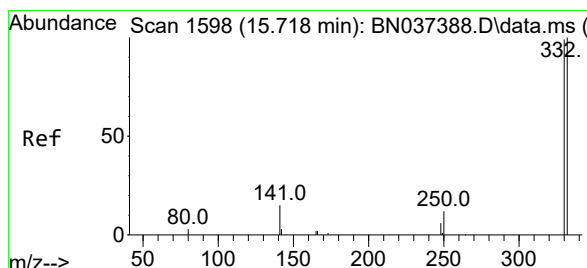
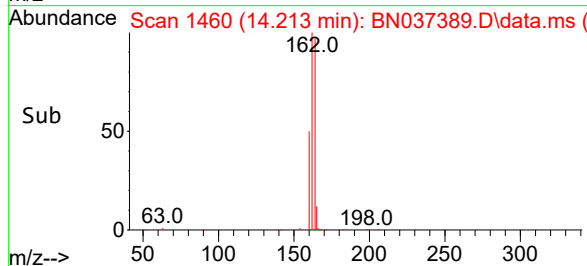
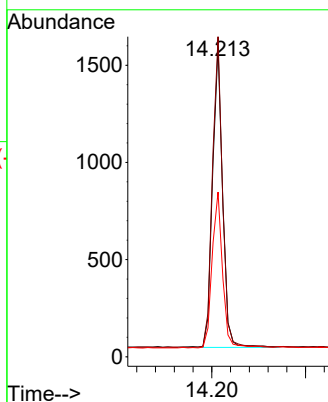
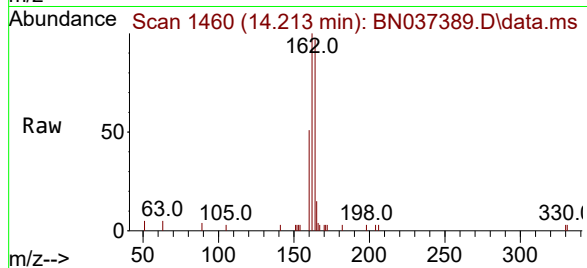
Tgt Ion:164 Resp: 2328

Ion Ratio Lower Upper

164 100

162 103.1 82.6 123.8

160 53.1 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.766 ng

RT: 15.718 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

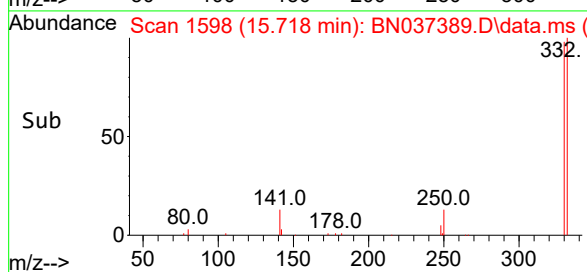
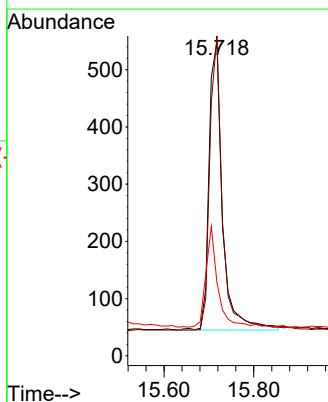
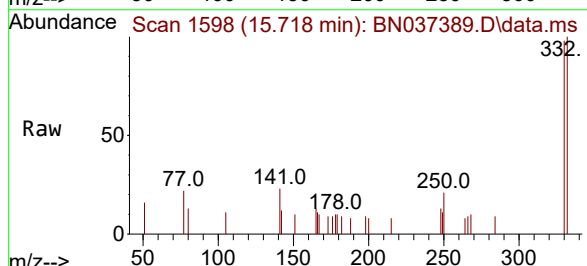
Tgt Ion:330 Resp: 1046

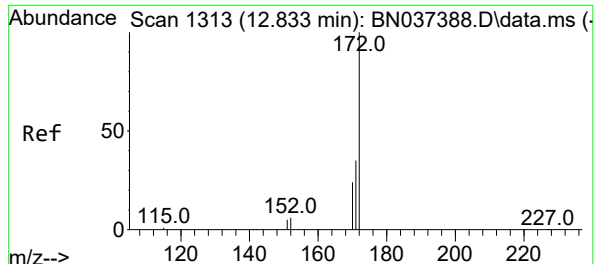
Ion Ratio Lower Upper

330 100

332 95.4 77.8 116.8

141 31.1 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 0.765 ng

RT: 12.833 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

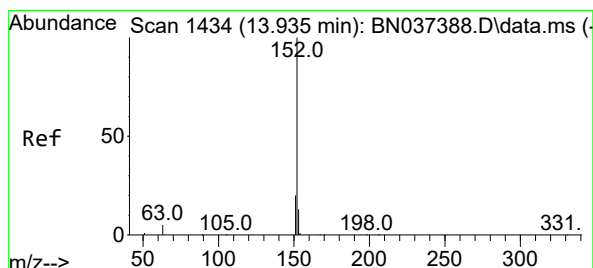
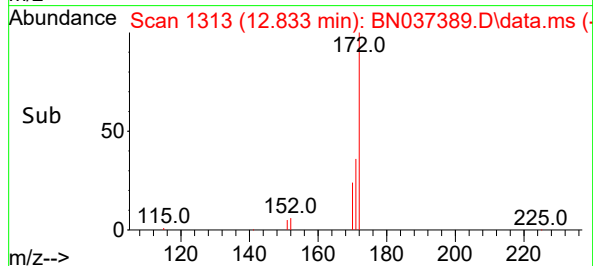
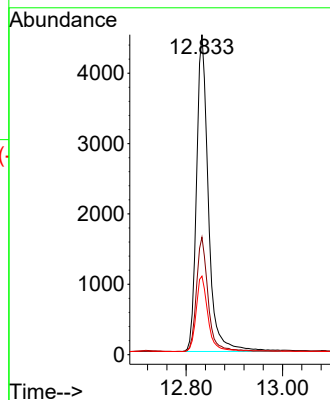
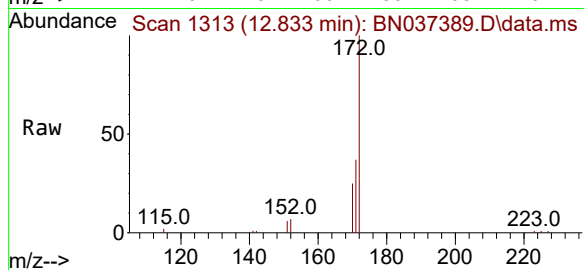
Tgt Ion:172 Resp: 7691

Ion Ratio Lower Upper

172 100

171 36.7 28.8 43.2

170 24.5 20.3 30.5



#16

Acenaphthylene

Concen: 0.742 ng

RT: 13.925 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

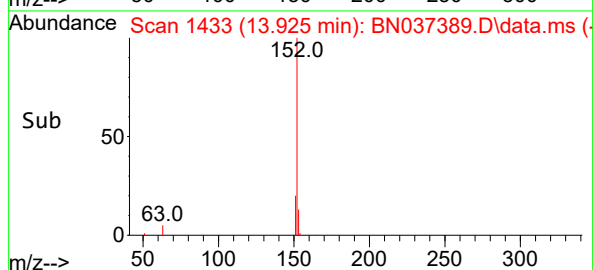
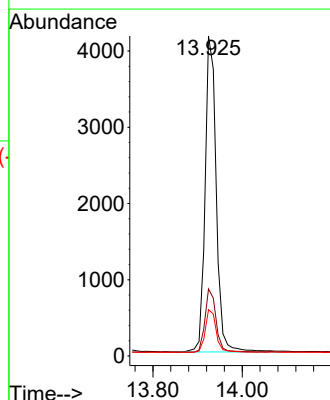
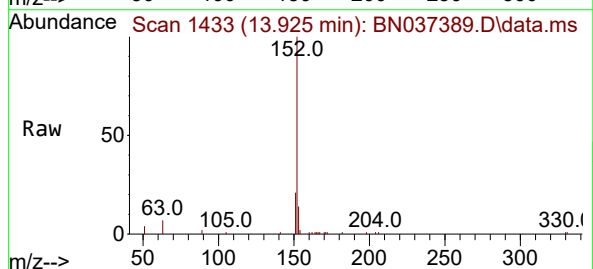
Tgt Ion:152 Resp: 7160

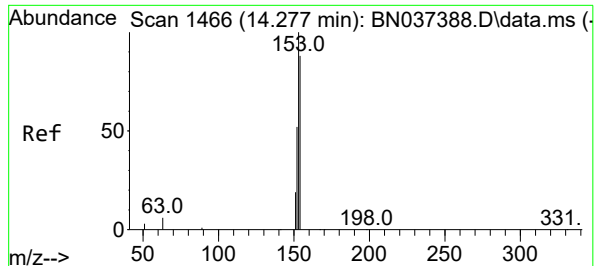
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.6

153 13.3 10.3 15.5





#17

Acenaphthene

Concen: 0.745 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

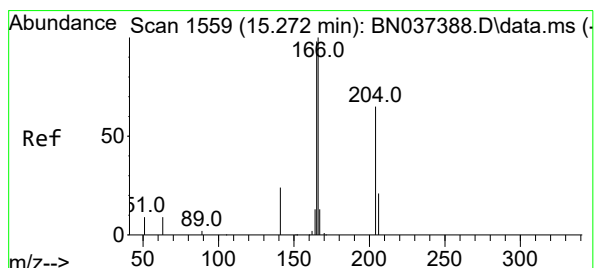
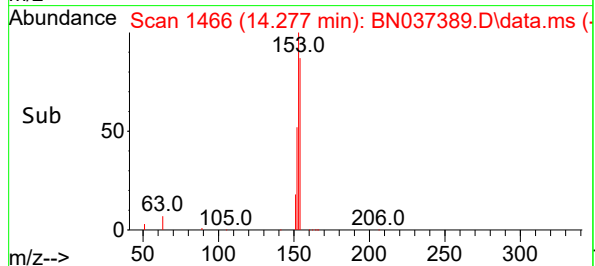
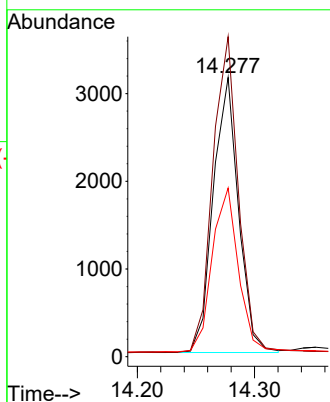
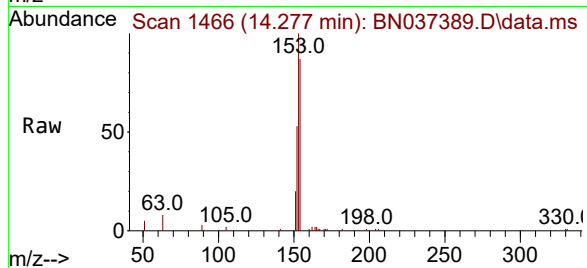
Tgt Ion:154 Resp: 4696

Ion Ratio Lower Upper

154 100

153 117.8 94.6 141.8

152 62.8 50.2 75.2



#18

Fluorene

Concen: 0.743 ng

RT: 15.272 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

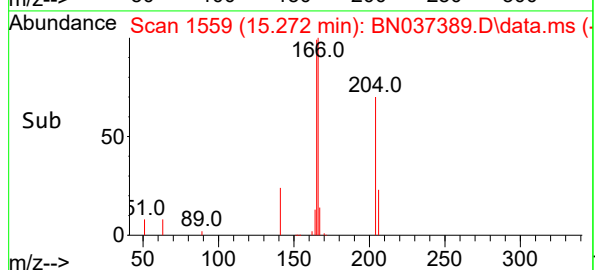
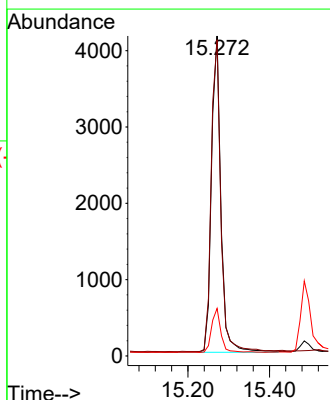
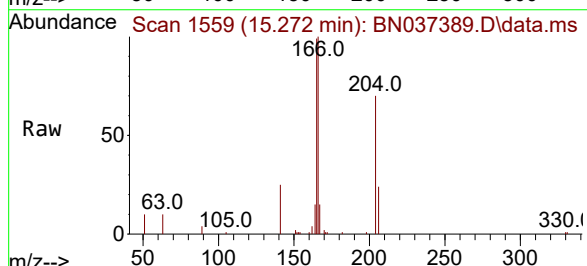
Tgt Ion:166 Resp: 6613

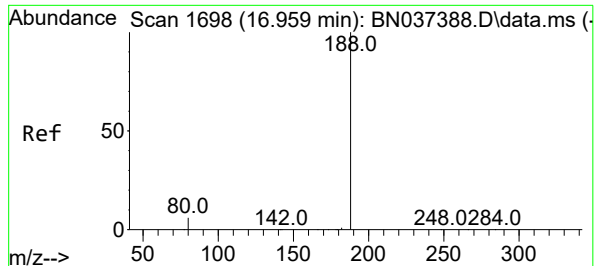
Ion Ratio Lower Upper

166 100

165 100.0 79.4 119.2

167 13.7 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

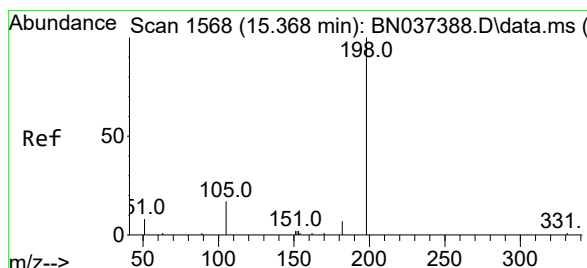
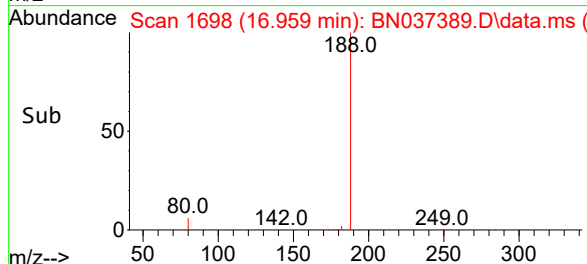
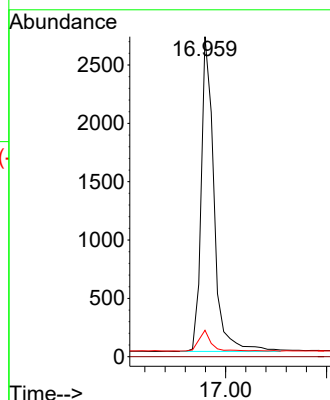
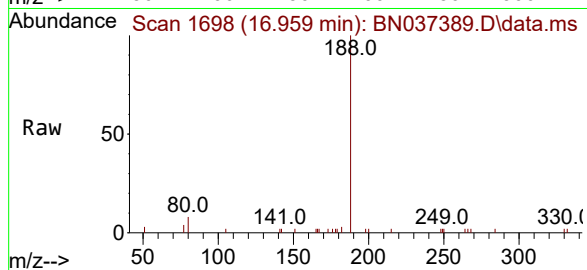
Tgt Ion:188 Resp: 4756

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.676 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

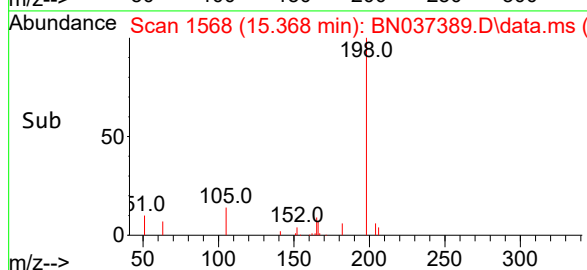
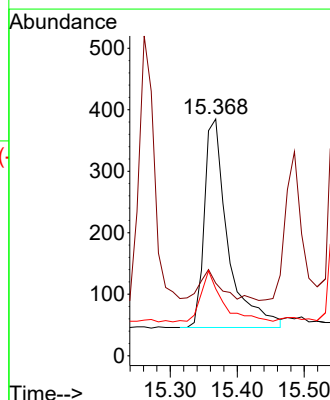
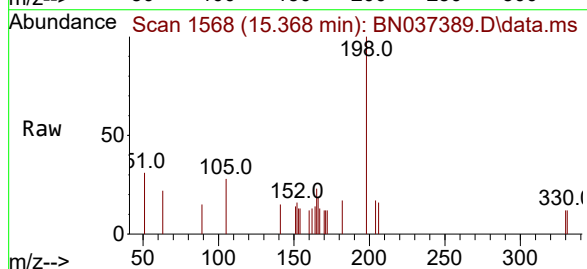
Tgt Ion:198 Resp: 826

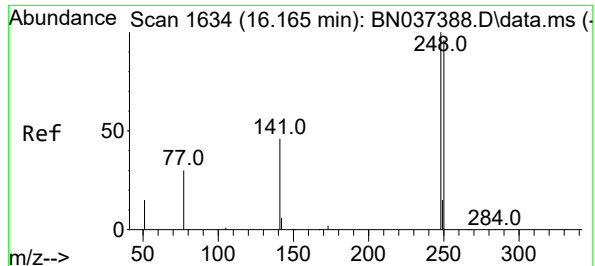
Ion Ratio Lower Upper

198 100

51 30.6 38.8 58.2#

105 28.3 29.8 44.6#

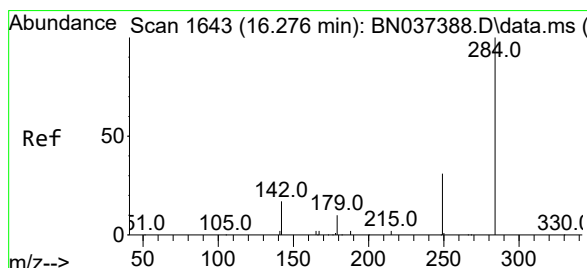
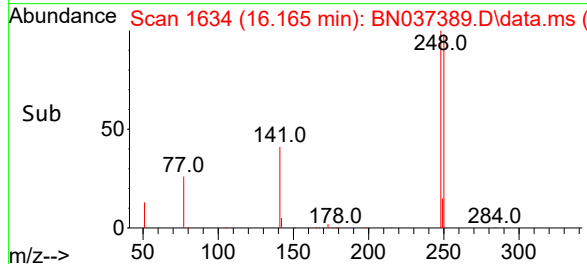
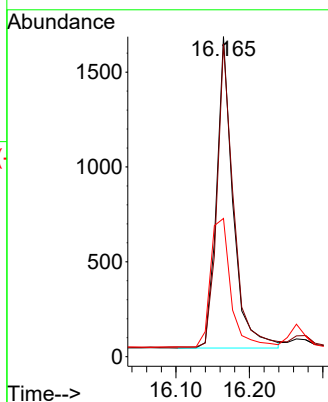
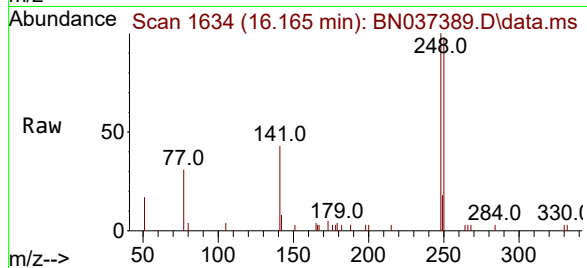




#21
4-Bromophenyl-phenylether
Concen: 0.762 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

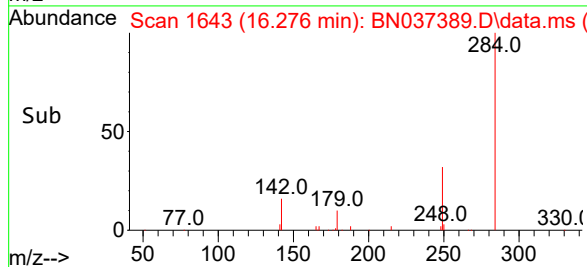
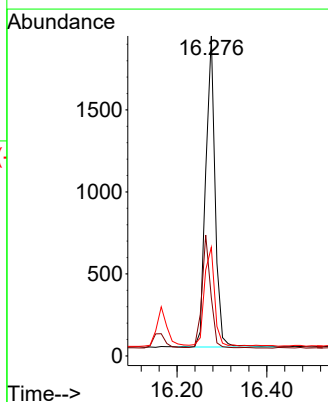
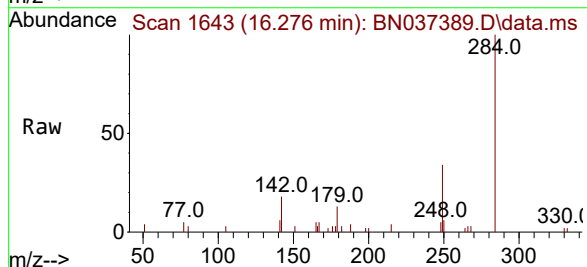
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

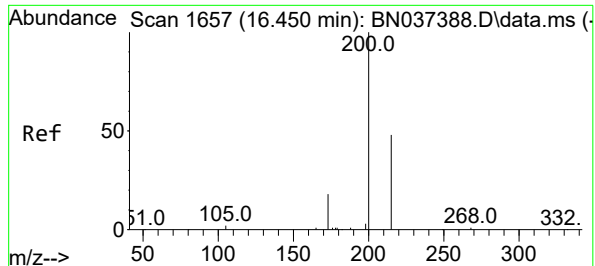
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.7	77.0	115.4
141	43.2	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.767 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.0	27.2	40.8
249	34.2	26.7	40.1





#23

Atrazine

Concen: 0.730 ng

RT: 16.438 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

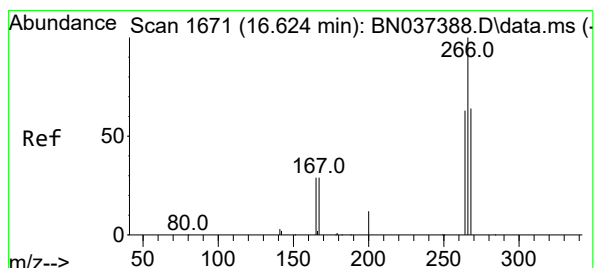
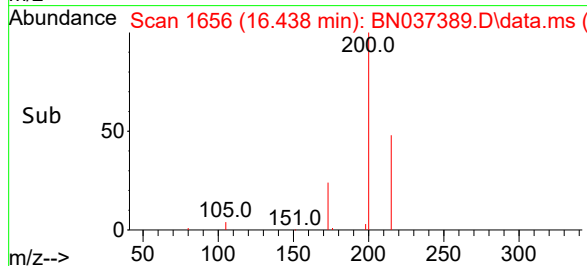
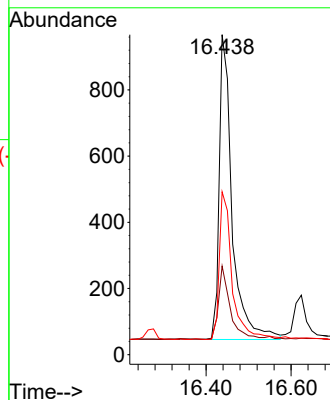
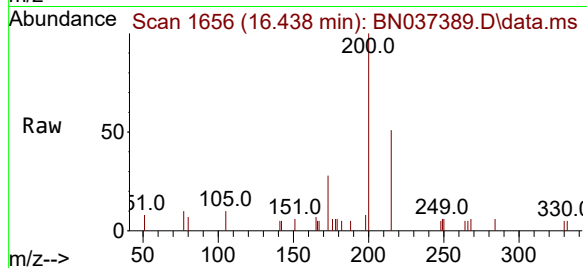
Tgt Ion:200 Resp: 1939

Ion Ratio Lower Upper

200 100

173 27.7 19.0 28.6

215 50.9 41.3 61.9



#24

Pentachlorophenol

Concen: 0.722 ng

RT: 16.624 min Scan# 1671

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

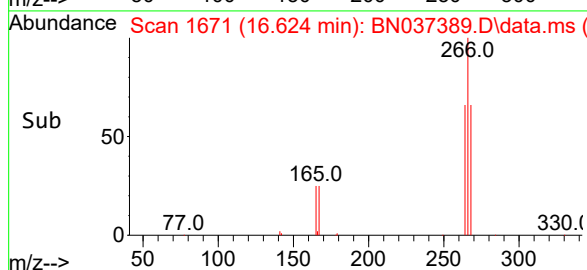
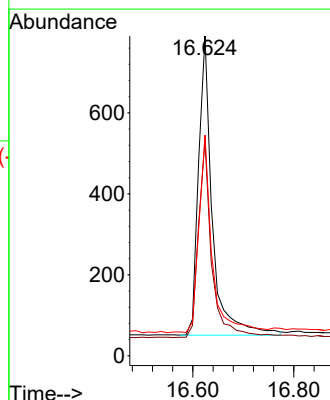
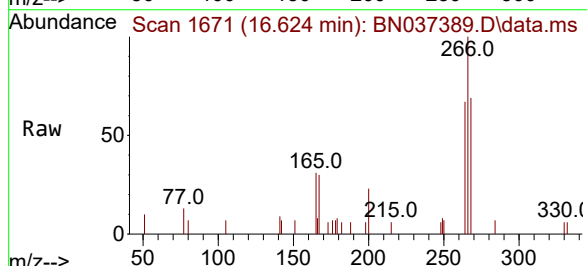
Tgt Ion:266 Resp: 1406

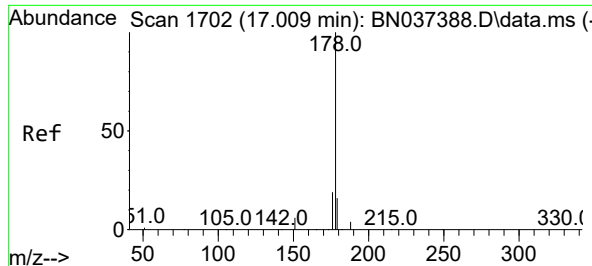
Ion Ratio Lower Upper

266 100

264 63.7 49.2 73.8

268 63.9 54.2 81.4

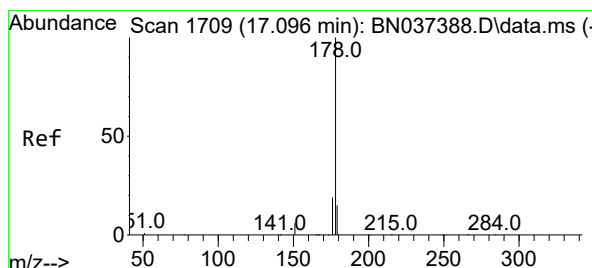
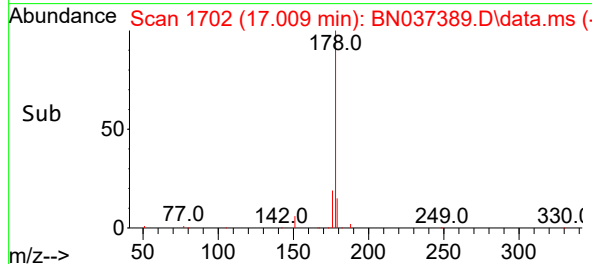
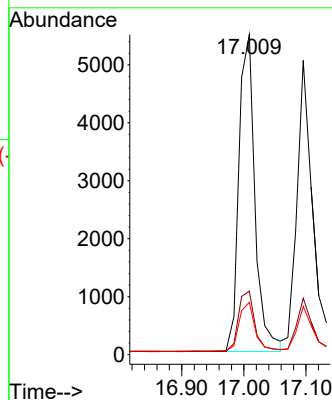
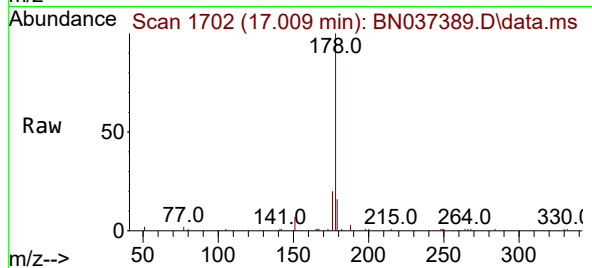




#25
Phenanthrene
Concen: 0.737 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

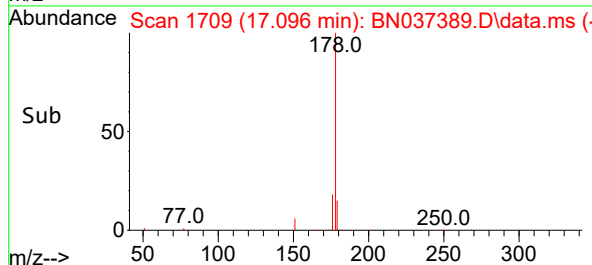
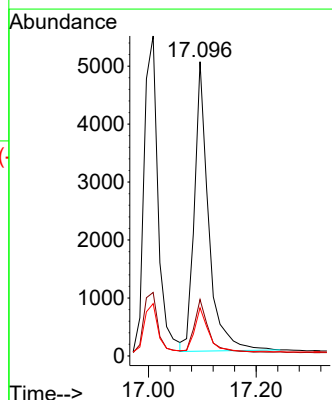
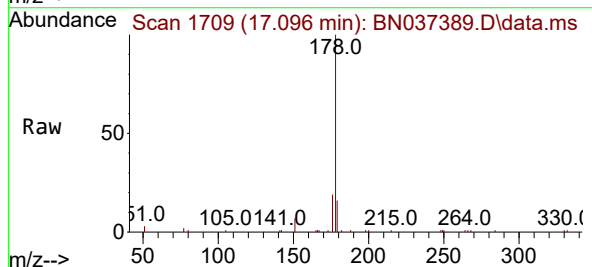
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

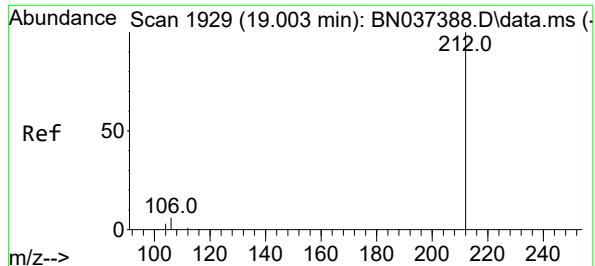
Tgt Ion:178 Resp: 9870
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 15.3 12.8 19.2



#26
Anthracene
Concen: 0.741 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:178 Resp: 9124
Ion Ratio Lower Upper
178 100
176 18.0 14.9 22.3
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.717 ng

RT: 19.003 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

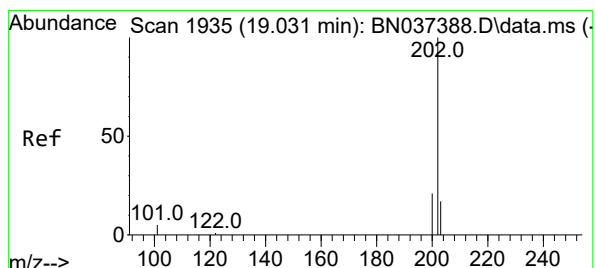
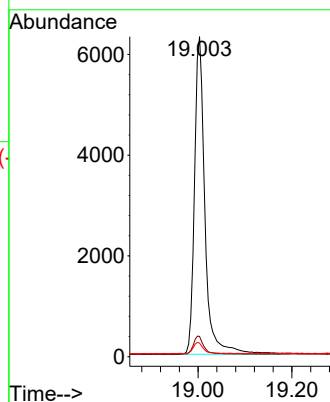
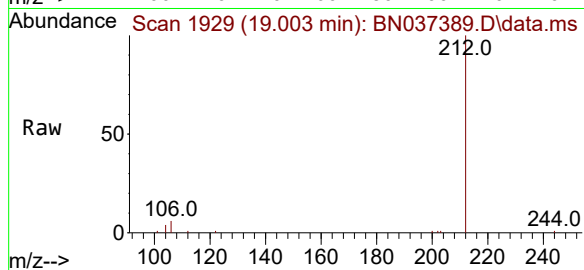
Tgt Ion:212 Resp: 9775

Ion Ratio Lower Upper

212 100

106 5.7 4.5 6.7

104 3.3 2.7 4.1



#28

Fluoranthene

Concen: 0.734 ng

RT: 19.031 min Scan# 1935

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

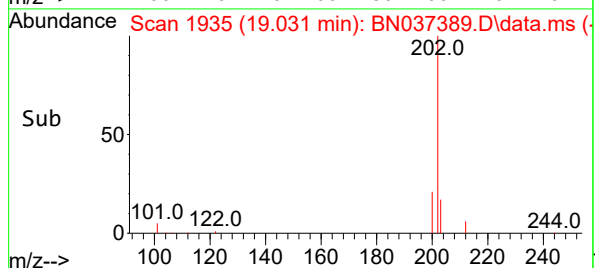
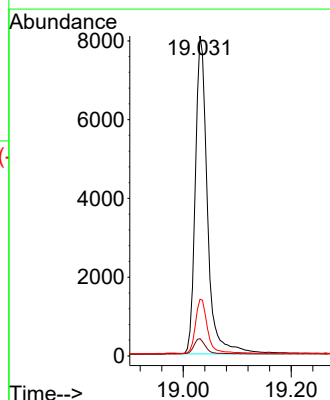
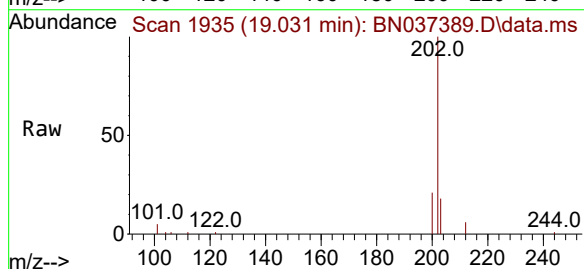
Tgt Ion:202 Resp: 12556

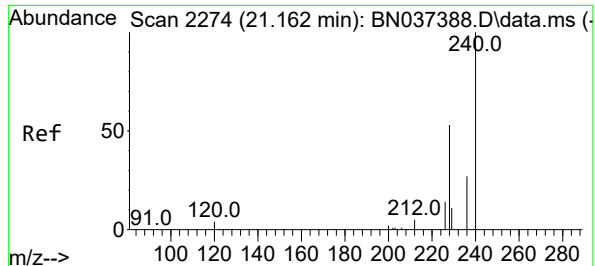
Ion Ratio Lower Upper

202 100

101 4.9 3.8 5.6

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

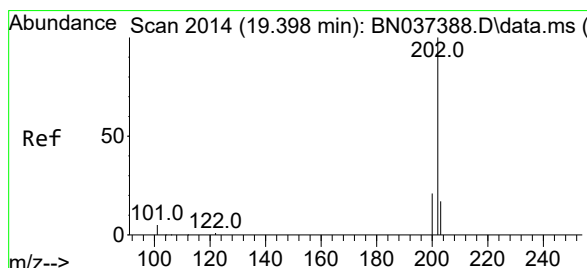
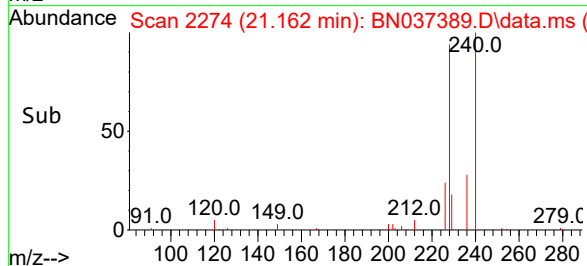
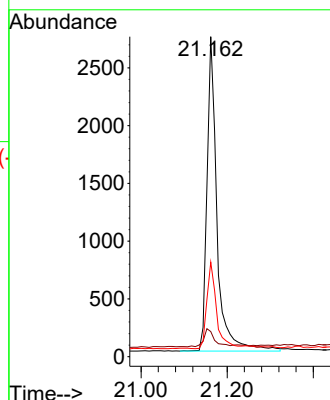
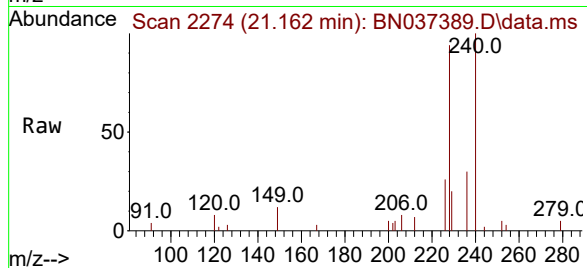
Tgt Ion:240 Resp: 4408

Ion Ratio Lower Upper

240 100

120 7.9 5.3 7.9

236 29.6 22.7 34.1



#30

Pyrene

Concen: 0.756 ng

RT: 19.398 min Scan# 2014

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

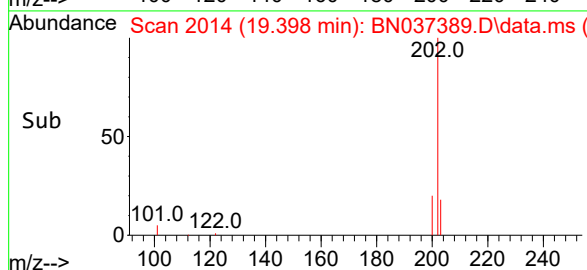
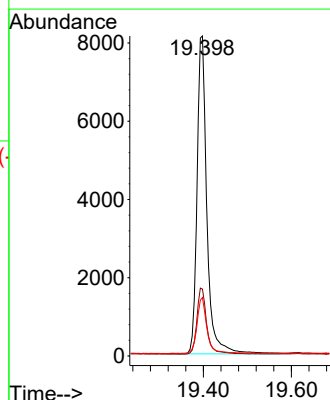
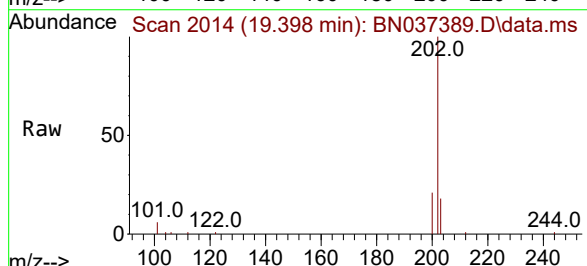
Tgt Ion:202 Resp: 12616

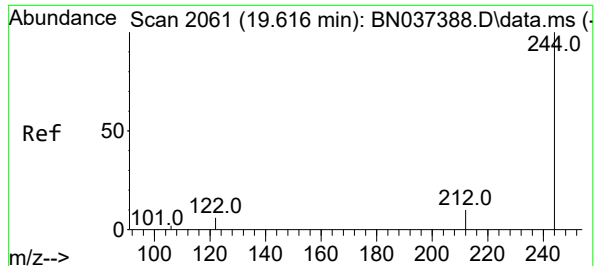
Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

203 17.7 14.2 21.2

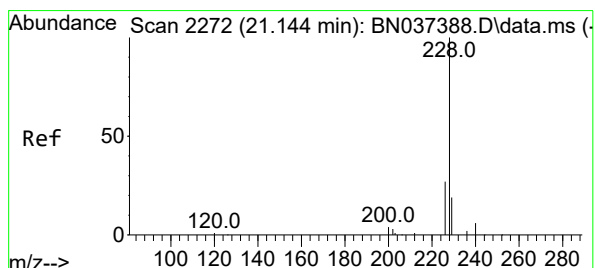
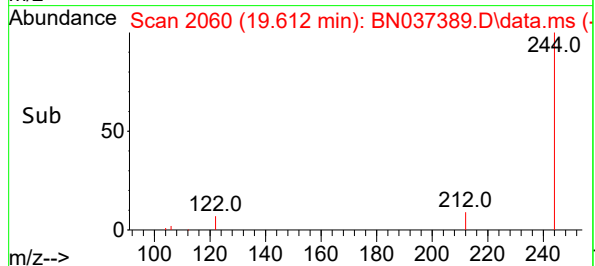
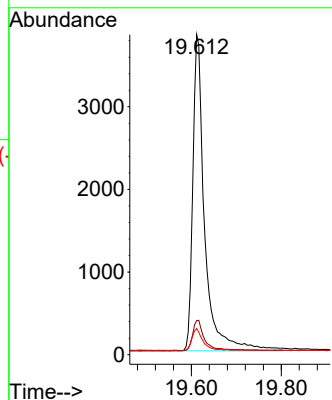
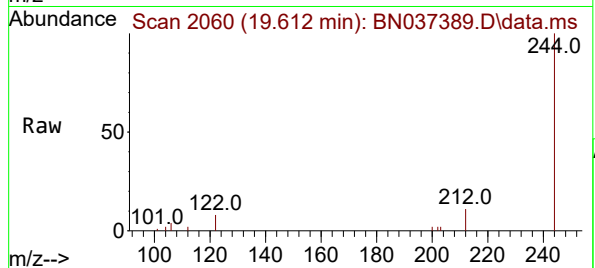




#31
Terphenyl-d14
Concen: 0.747 ng
RT: 19.612 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

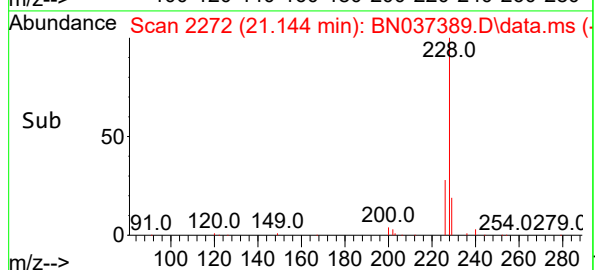
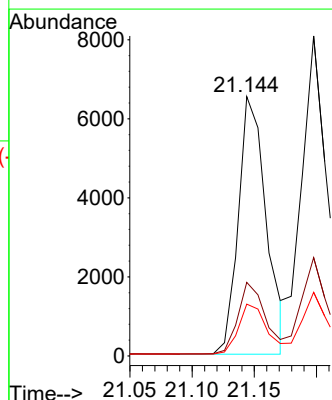
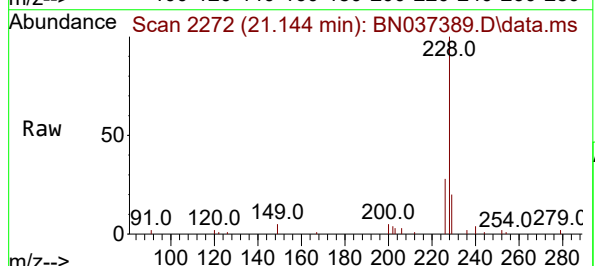
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

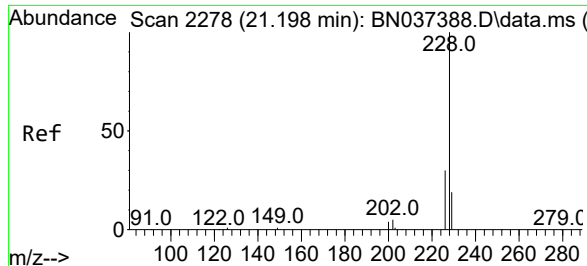
Tgt Ion:244 Resp: 7017
Ion Ratio Lower Upper
244 100
212 10.7 9.1 13.7
122 8.1 6.3 9.5



#32
Benzo(a)anthracene
Concen: 0.733 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:228 Resp: 10155
Ion Ratio Lower Upper
228 100
226 28.4 22.6 34.0
229 20.0 16.2 24.2





#33

Chrysene

Concen: 0.767 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

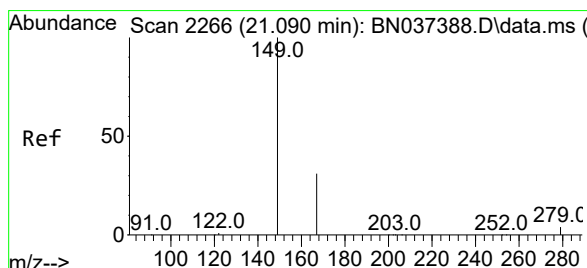
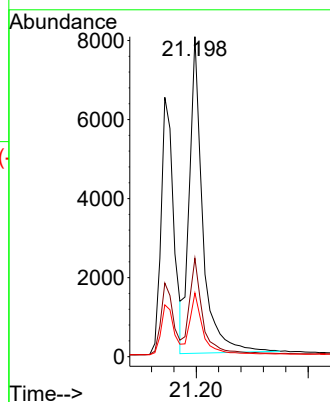
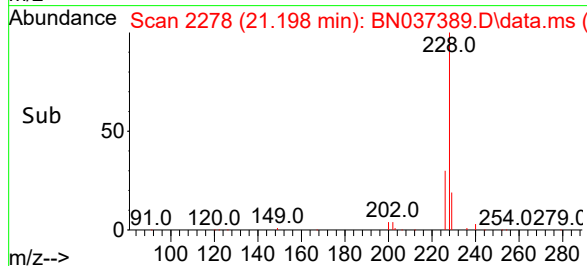
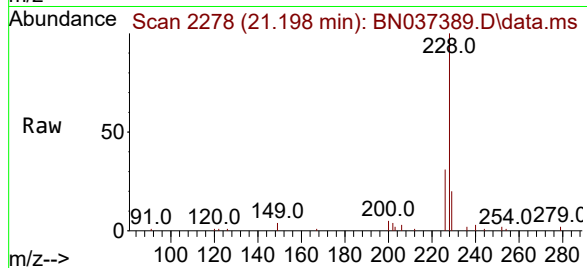
Tgt Ion:228 Resp: 13144

Ion Ratio Lower Upper

228 100

226 30.7 24.5 36.7

229 19.9 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.749 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

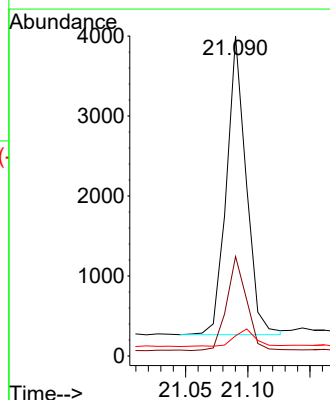
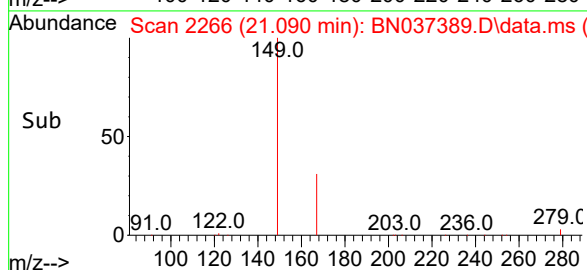
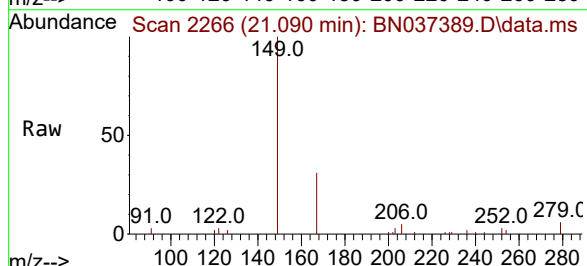
Tgt Ion:149 Resp: 4107

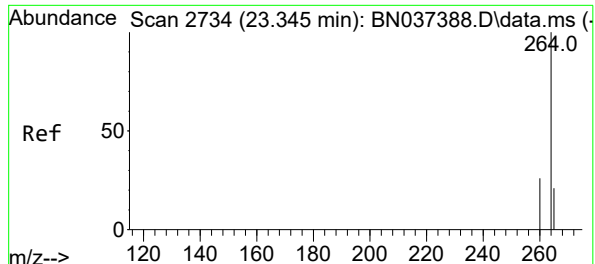
Ion Ratio Lower Upper

149 100

167 31.9 24.8 37.2

279 6.4 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037389.D

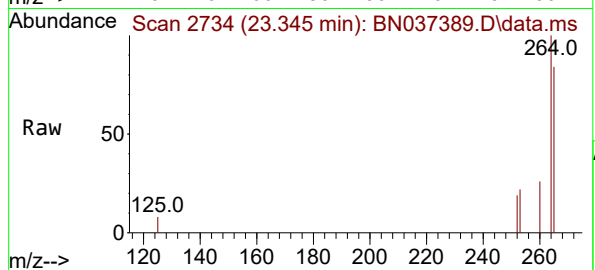
Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



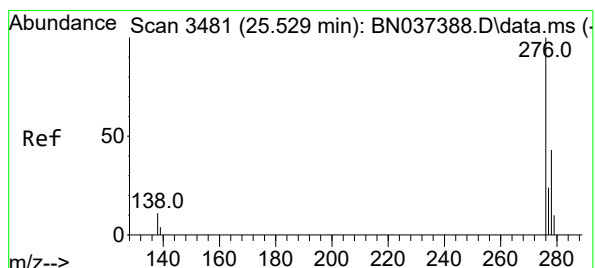
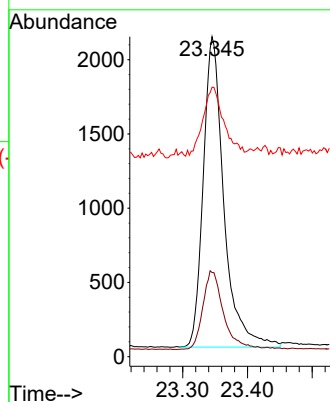
Tgt Ion:264 Resp: 4628

Ion Ratio Lower Upper

264 100

260 26.3 21.4 32.0

265 84.2 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

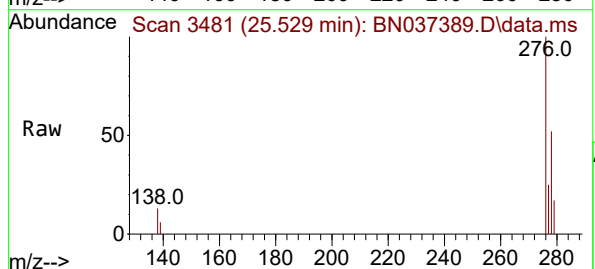
Concen: 0.768 ng

RT: 25.529 min Scan# 3481

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29



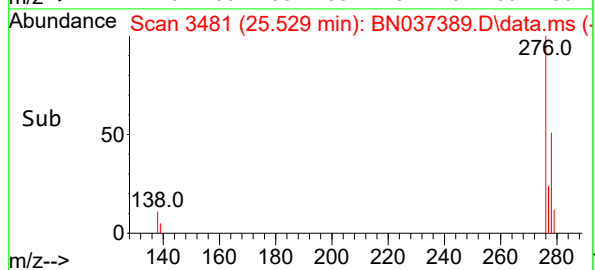
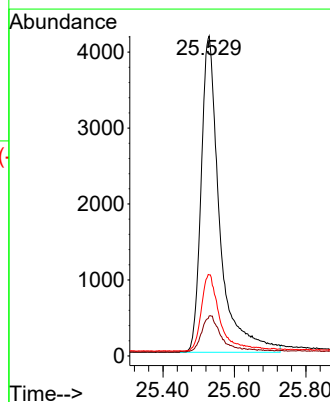
Tgt Ion:276 Resp: 14993

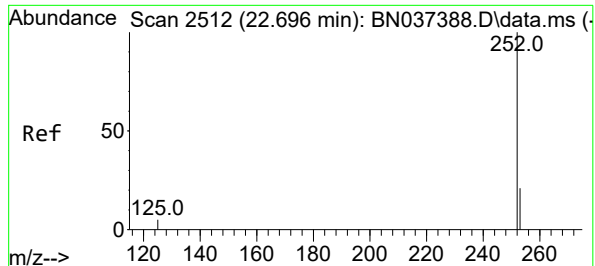
Ion Ratio Lower Upper

276 100

138 11.6 8.5 12.7

277 23.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.749 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

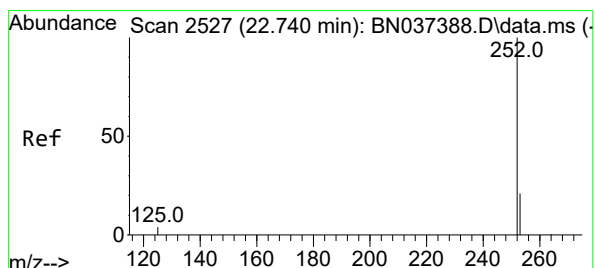
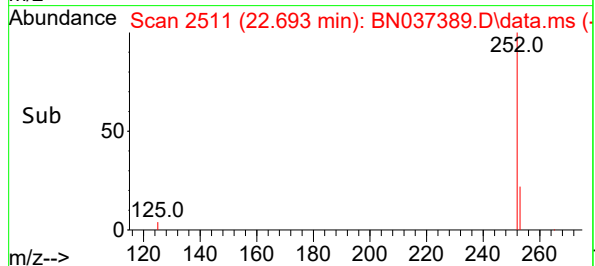
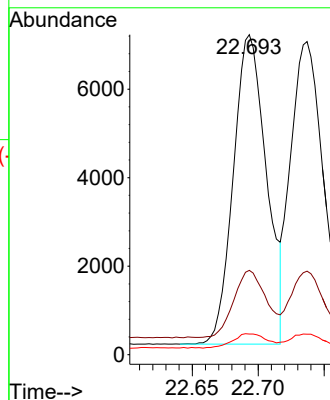
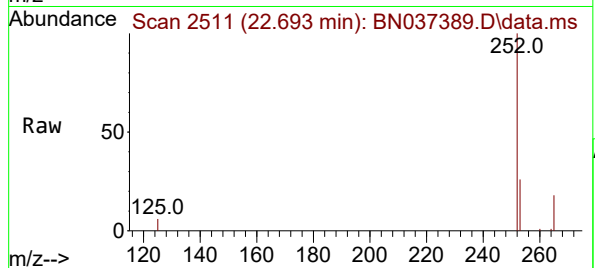
Tgt Ion:252 Resp: 12221

Ion Ratio Lower Upper

252 100

253 26.4 22.8 34.2

125 6.4 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.759 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

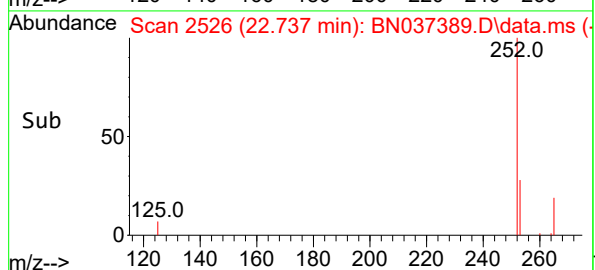
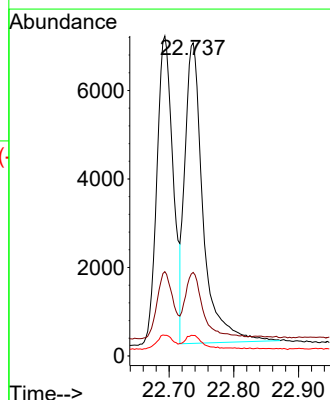
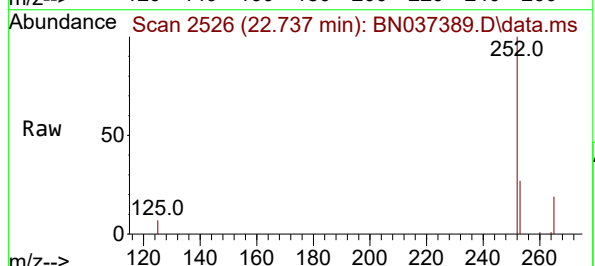
Tgt Ion:252 Resp: 13232

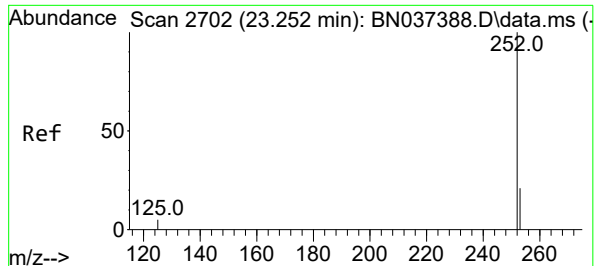
Ion Ratio Lower Upper

252 100

253 26.7 23.2 34.8

125 6.6 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.748 ng

RT: 23.252 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

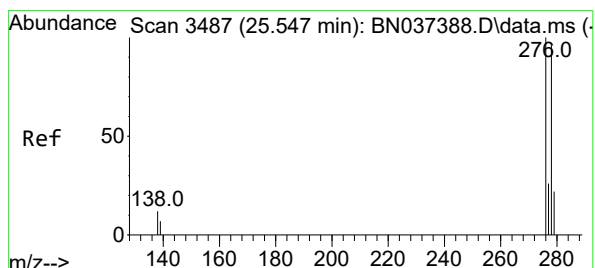
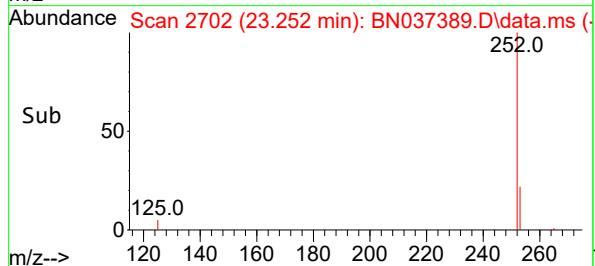
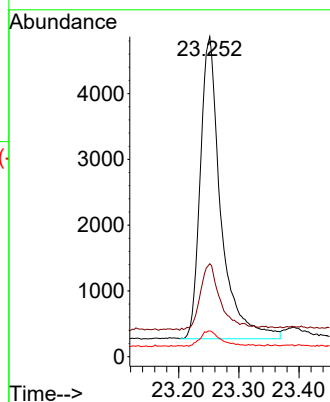
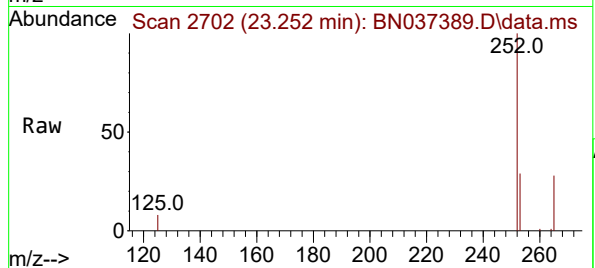
Tgt Ion:252 Resp: 10863

Ion Ratio Lower Upper

252 100

253 29.0 25.6 38.4

125 8.0 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.759 ng

RT: 25.547 min Scan# 3487

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

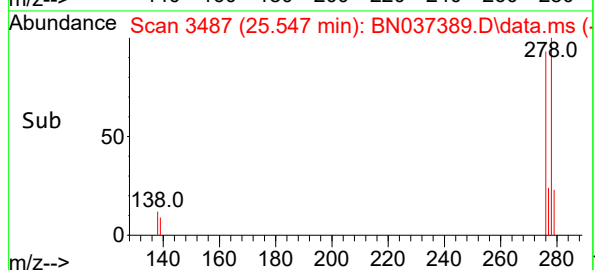
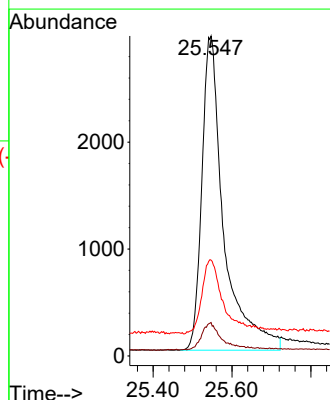
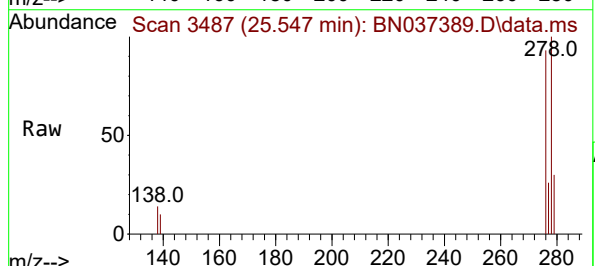
Tgt Ion:278 Resp: 11379

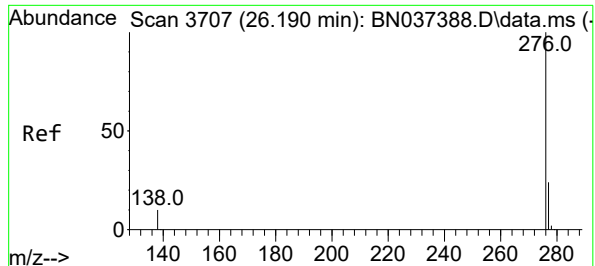
Ion Ratio Lower Upper

278 100

139 10.5 8.5 12.7

279 30.0 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.756 ng

RT: 26.187 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037389.D

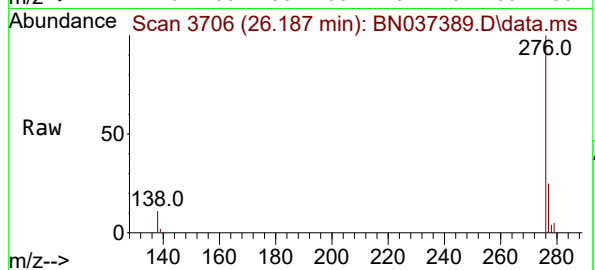
Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



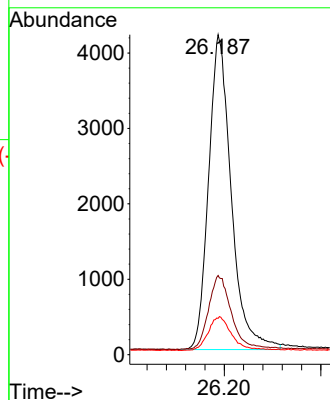
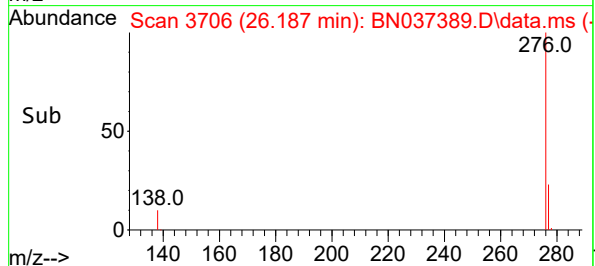
Tgt Ion:276 Resp: 13535

Ion Ratio Lower Upper

276 100

277 24.8 21.0 31.4

138 11.4 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037390.D
 Acq On : 26 Jun 2025 13:05
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jun 26 14:44:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

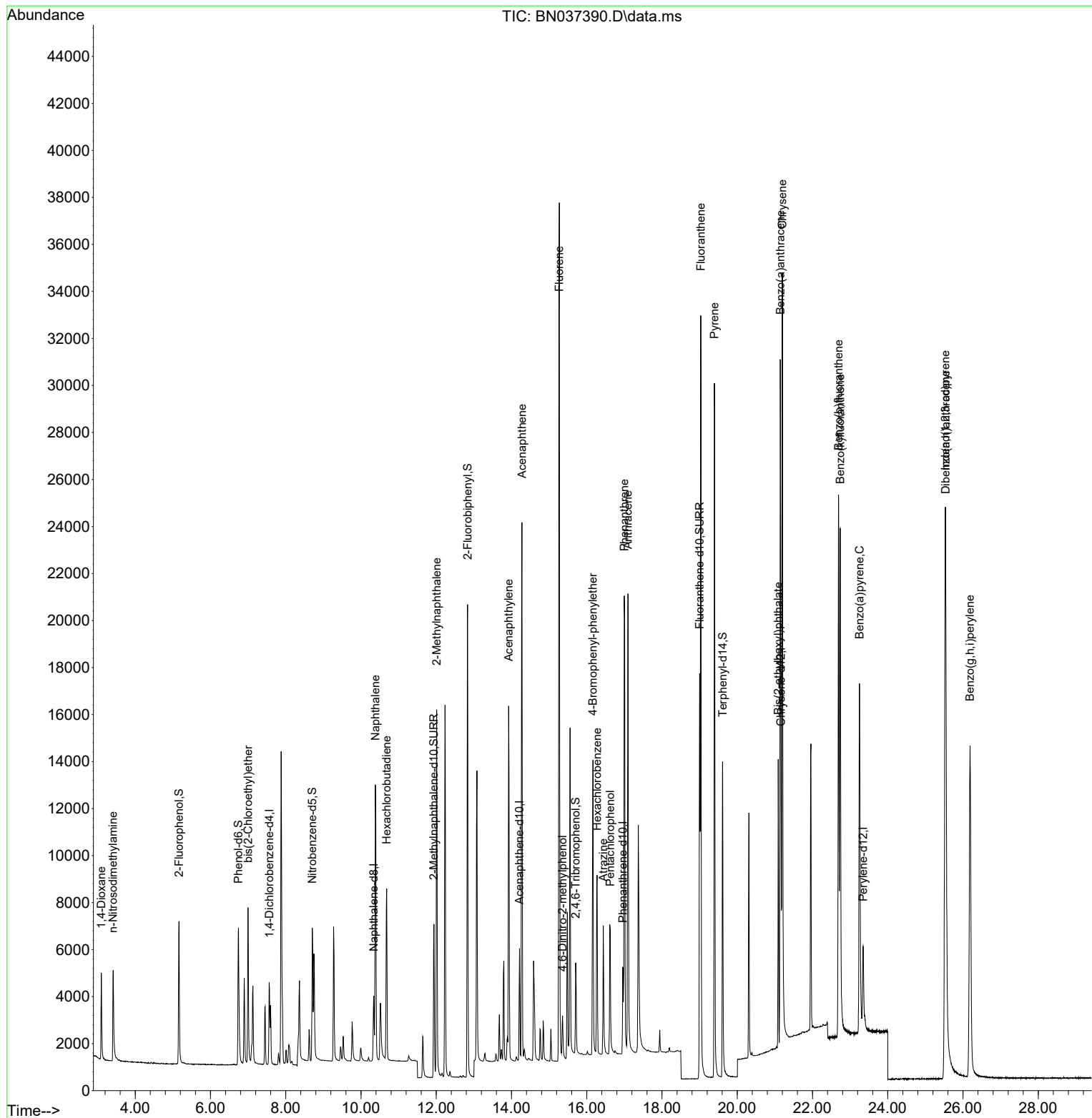
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	1757	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3755	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2497	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	5134	0.400	ng	0.00
29) Chrysene-d12	21.162	240	4846	0.400	ng	0.00
35) Perylene-d12	23.345	264	4921	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	5301	1.566	ng	0.00
5) Phenol-d6	6.745	99	5895	1.679	ng	0.00
8) Nitrobenzene-d5	8.707	82	5183	1.716	ng	-0.01
11) 2-Methylnaphthalene-d10	11.935	152	9434	1.624	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	2504	1.710	ng	-0.01
15) 2-Fluorobiphenyl	12.833	172	17962	1.666	ng	0.00
27) Fluoranthene-d10	18.998	212	23030	1.565	ng	0.00
31) Terphenyl-d14	19.612	244	17013	1.647	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	2649	1.682	ng	96
3) n-Nitrosodimethylamine	3.408	42	2708	1.646	ng	# 97
6) bis(2-Chloroethyl)ether	6.997	93	5373	1.721	ng	97
9) Naphthalene	10.383	128	15743	1.629	ng	97
10) Hexachlorobutadiene	10.682	225	6333	1.651	ng	# 98
12) 2-Methylnaphthalene	12.011	142	11211	1.685	ng	97
16) Acenaphthylene	13.925	152	17120	1.653	ng	100
17) Acenaphthene	14.277	154	11218	1.659	ng	98
18) Fluorene	15.272	166	16008	1.676	ng	100
20) 4,6-Dinitro-2-methylph...	15.357	198	2324	1.762	ng	# 63
21) 4-Bromophenyl-phenylether	16.165	248	6221	1.718	ng	# 92
22) Hexachlorobenzene	16.276	284	6380	1.638	ng	98
23) Atrazine	16.438	200	4771	1.663	ng	98
24) Pentachlorophenol	16.624	266	3391	1.612	ng	96
25) Phenanthrene	16.996	178	24063	1.663	ng	99
26) Anthracene	17.096	178	22103	1.662	ng	100
28) Fluoranthene	19.031	202	30535	1.653	ng	99
30) Pyrene	19.393	202	30249	1.650	ng	100
32) Benzo(a)anthracene	21.144	228	25546	1.678	ng	99
33) Chrysene	21.198	228	30118	1.598	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	9332	1.548	ng	99
36) Indeno(1,2,3-cd)pyrene	25.529	276	35151	1.694	ng	98
37) Benzo(b)fluoranthene	22.690	252	28814	1.661	ng	# 91
38) Benzo(k)fluoranthene	22.737	252	30557	1.648	ng	# 91
39) Benzo(a)pyrene	23.249	252	25315	1.640	ng	# 88
40) Dibenzo(a,h)anthracene	25.538	278	27440	1.722	ng	# 87
41) Benzo(g,h,i)perylene	26.187	276	31821	1.671	ng	97

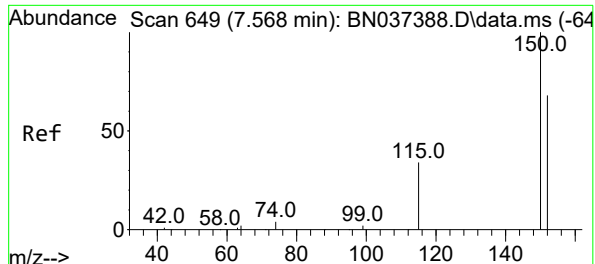
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037390.D
Acq On : 26 Jun 2025 13:05
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 26 14:44:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

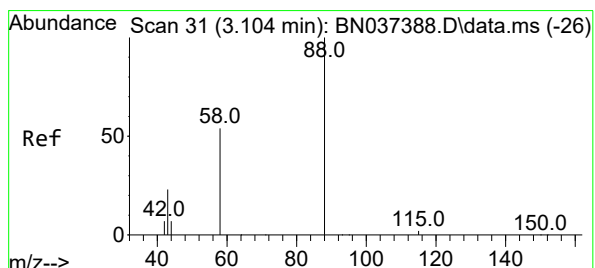
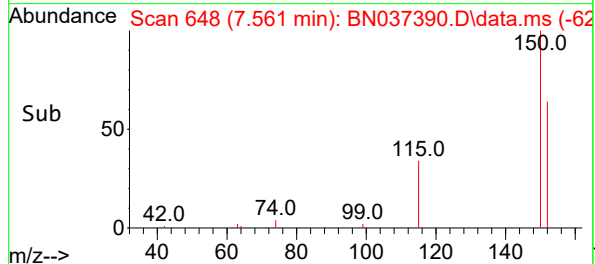
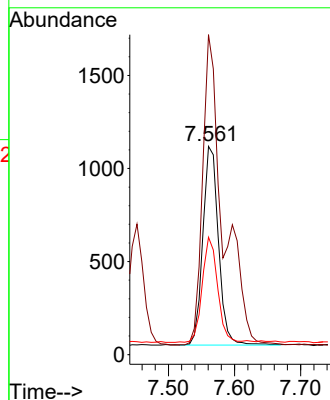
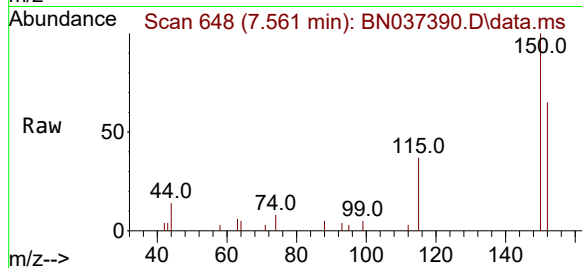




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

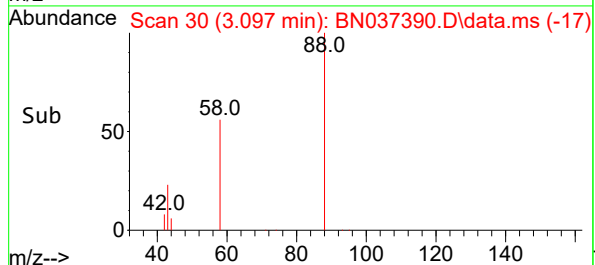
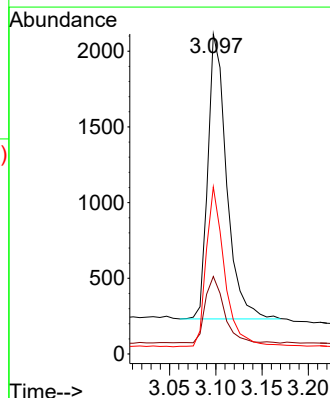
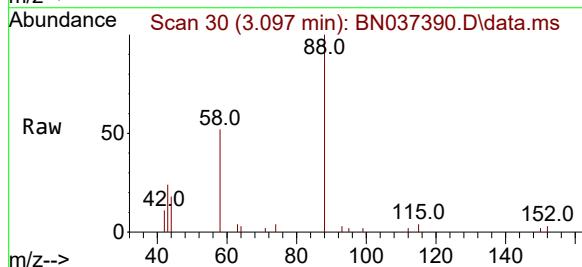
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

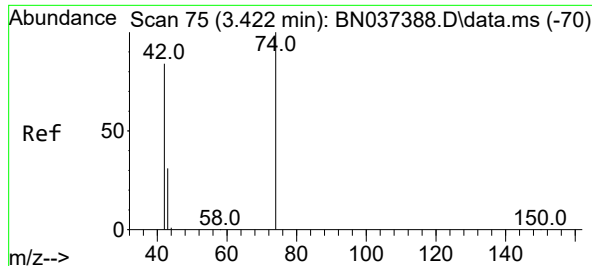
Tgt Ion:152 Resp: 1757
Ion Ratio Lower Upper
152 100
150 153.6 116.2 174.2
115 56.4 42.9 64.3



#2
1,4-Dioxane
Concen: 1.682 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 88 Resp: 2649
Ion Ratio Lower Upper
88 100
43 23.8 21.6 32.4
58 55.3 45.9 68.9

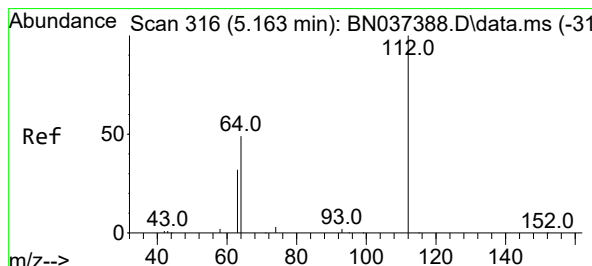
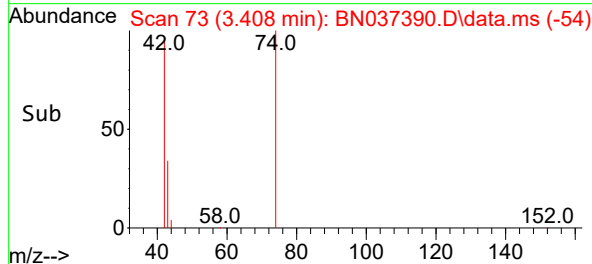
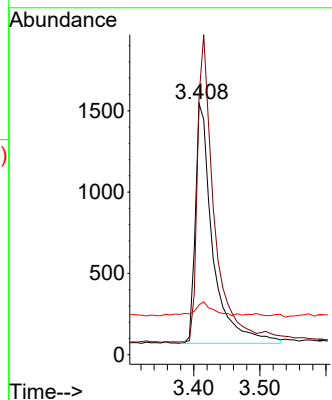
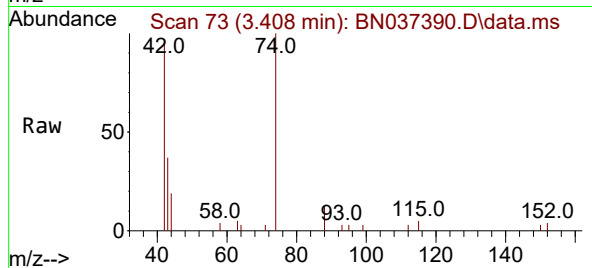




#3
n-Nitrosodimethylamine
Concen: 1.646 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

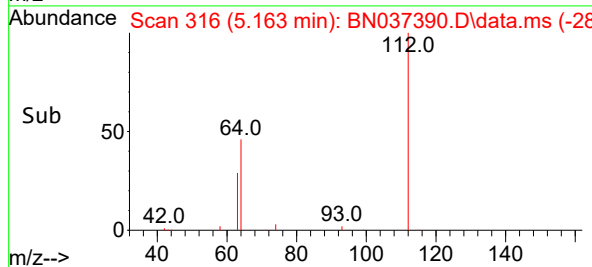
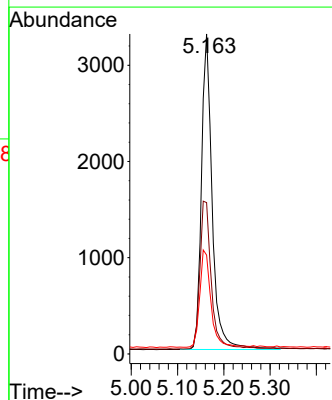
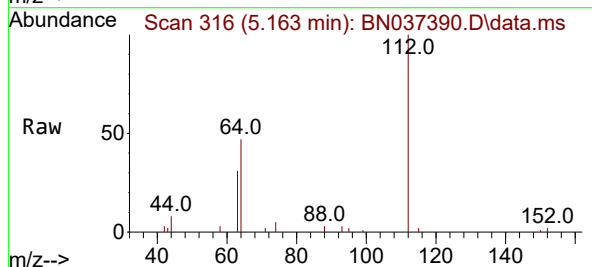
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

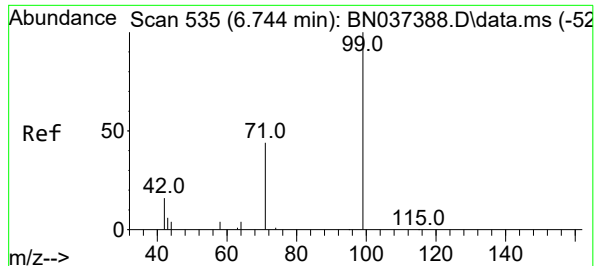
Tgt Ion: 42 Resp: 2708
Ion Ratio Lower Upper
42 100
74 125.6 97.8 146.8
44 7.3 8.7 13.1#



#4
2-Fluorophenol
Concen: 1.566 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 112 Resp: 5301
Ion Ratio Lower Upper
112 100
64 50.2 40.3 60.5
63 32.2 26.1 39.1

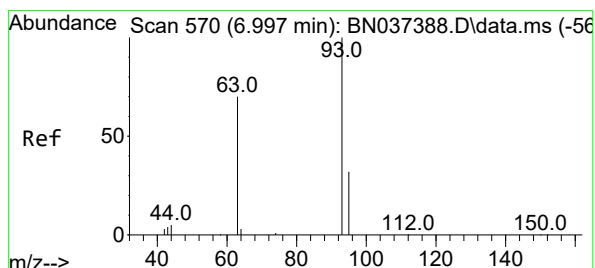
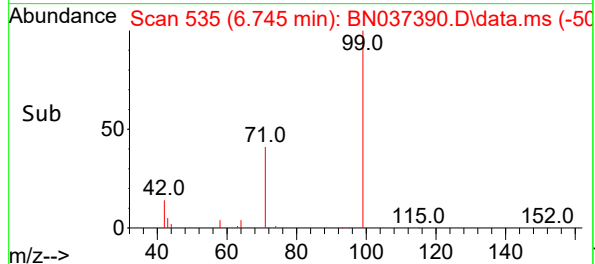
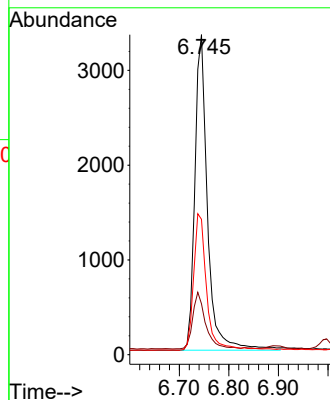
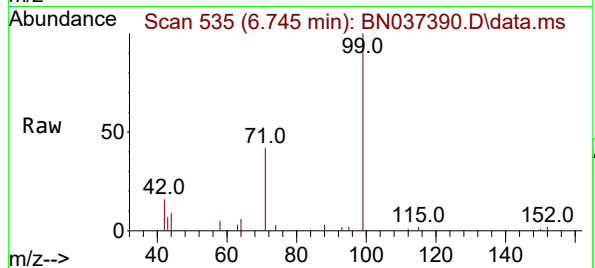




#5
Phenol-d6
Concen: 1.679 ng
RT: 6.745 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

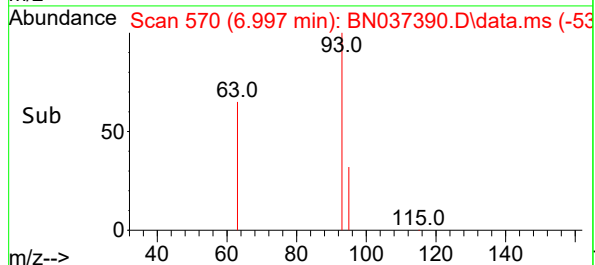
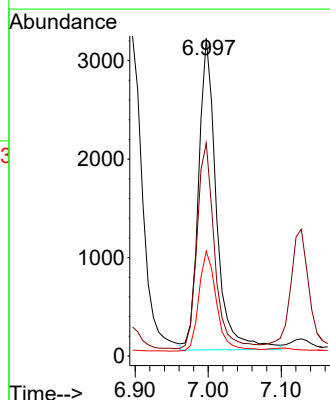
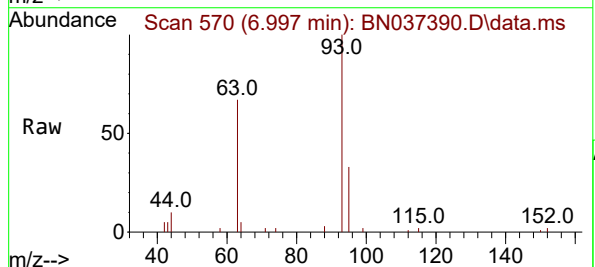
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

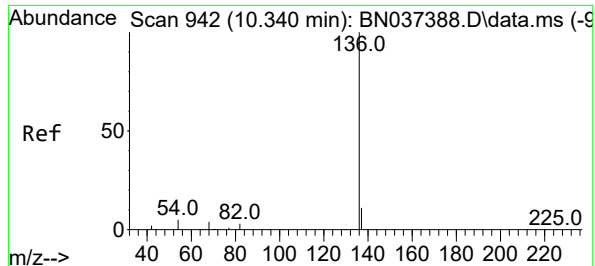
Tgt Ion: 99 Resp: 5895
Ion Ratio Lower Upper
99 100
42 18.4 15.6 23.4
71 44.7 35.8 53.8



#6
bis(2-Chloroethyl)ether
Concen: 1.721 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 93 Resp: 5373
Ion Ratio Lower Upper
93 100
63 64.6 49.6 74.4
95 31.7 23.9 35.9

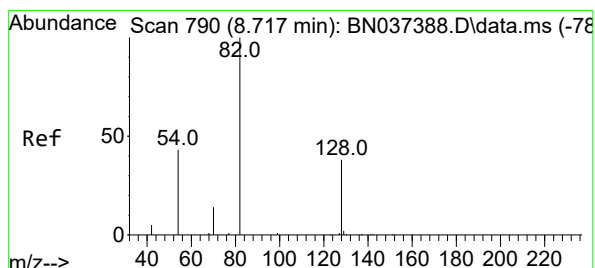
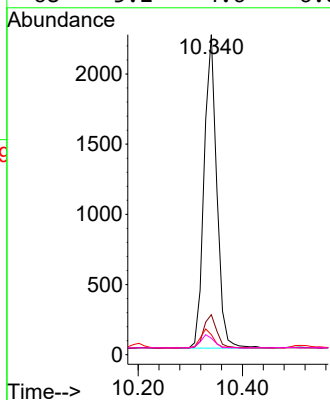
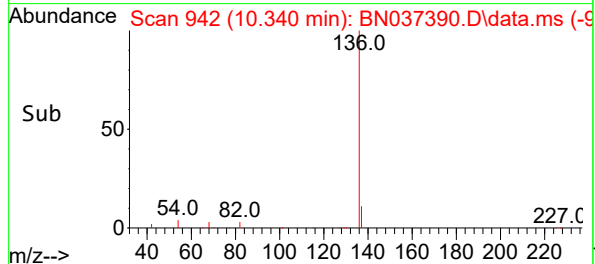
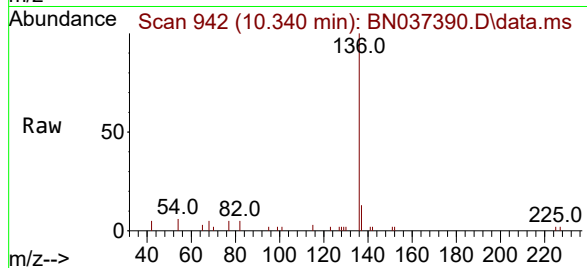




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

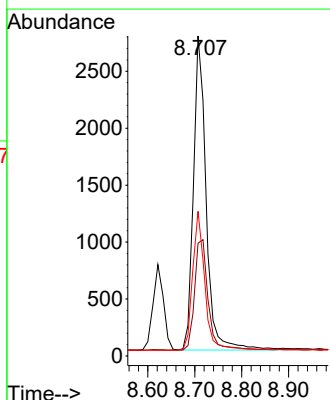
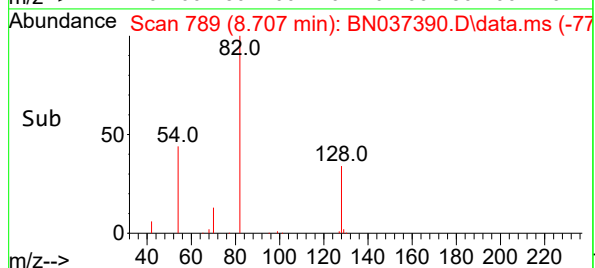
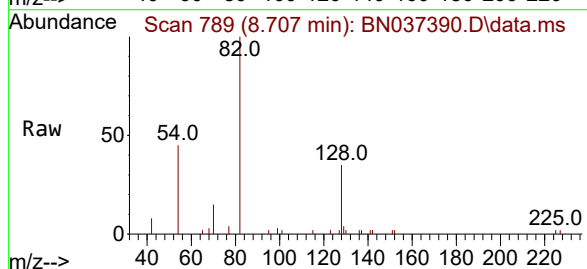
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

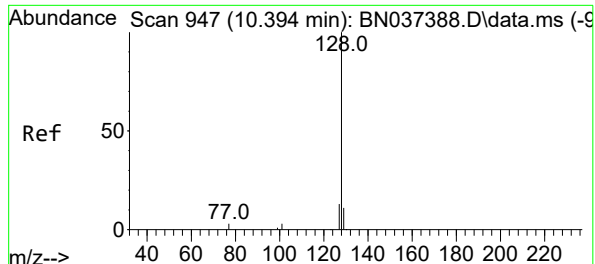
Tgt Ion:	136	Resp:	3755
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.4	15.6
54	6.3	5.6	8.4
68	5.2	4.6	6.8



#8
Nitrobenzene-d5
Concen: 1.716 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:	82	Resp:	5183
Ion	Ratio	Lower	Upper
82	100		
128	35.3	34.0	51.0
54	45.2	37.7	56.5

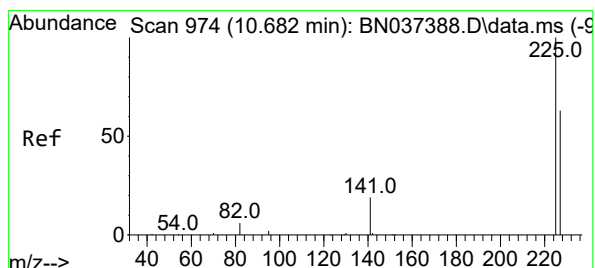
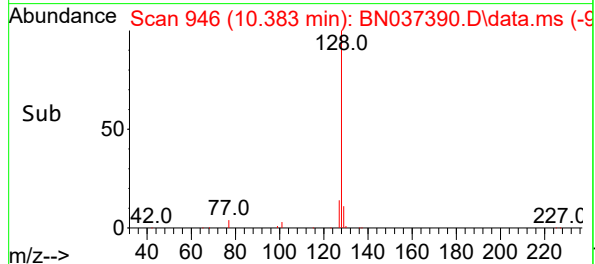
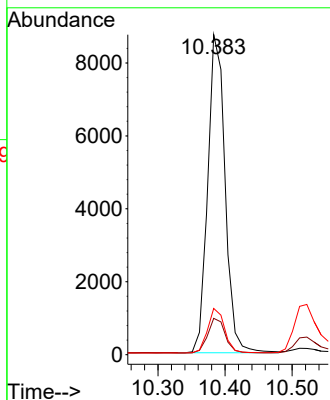
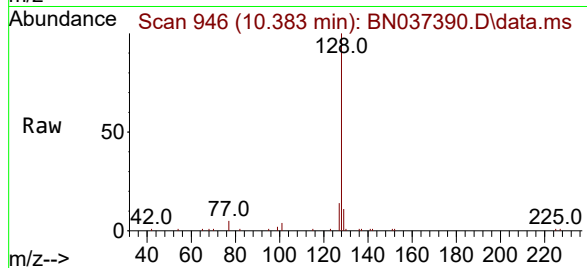




#9
Naphthalene
Concen: 1.629 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

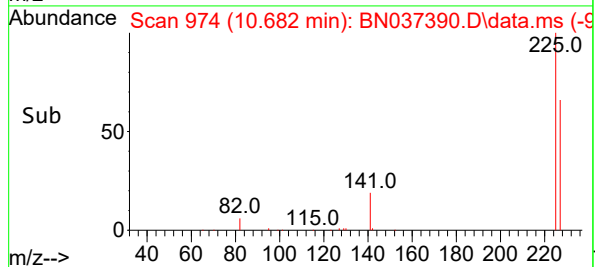
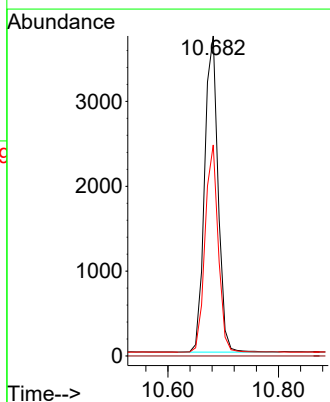
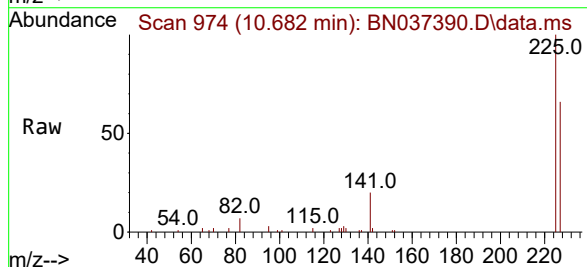
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

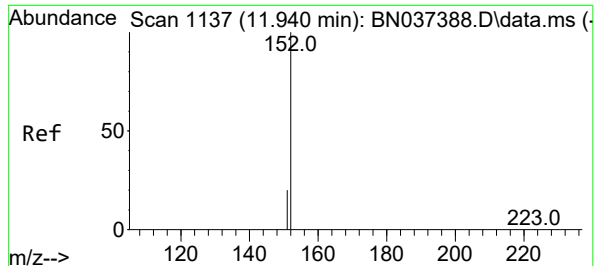
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	10.4	15.6
127	14.4	12.2	18.4



#10
Hexachlorobutadiene
Concen: 1.651 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	49.9	74.9

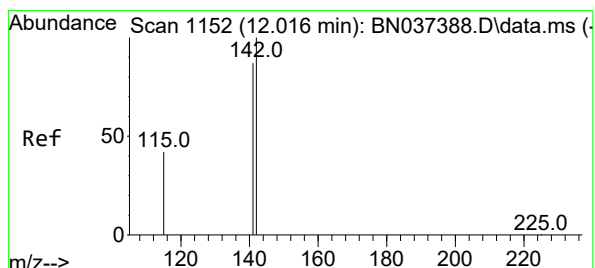
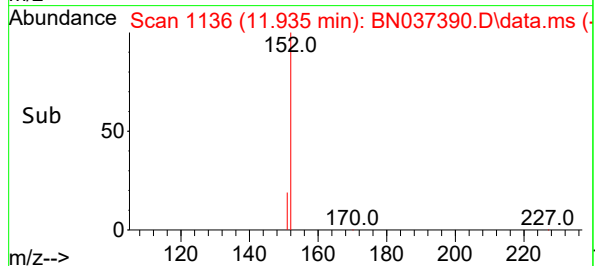
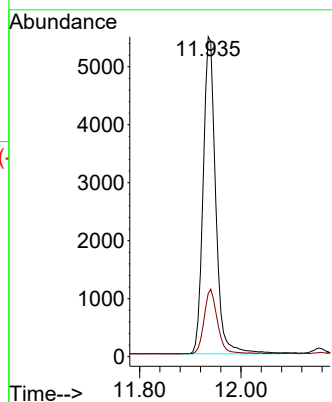
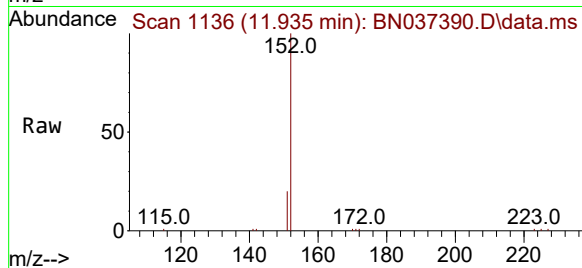




#11
2-Methylnaphthalene-d10
Concen: 1.624 ng
RT: 11.935 min Scan# 1136
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

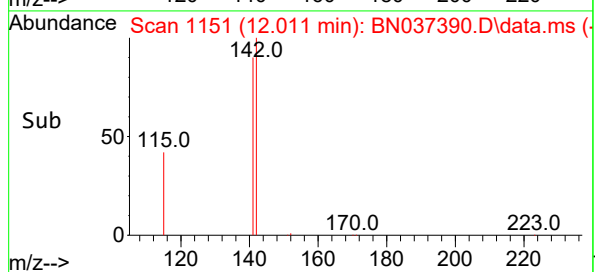
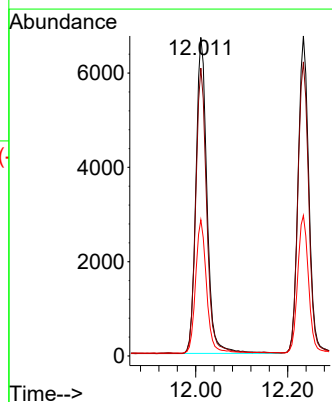
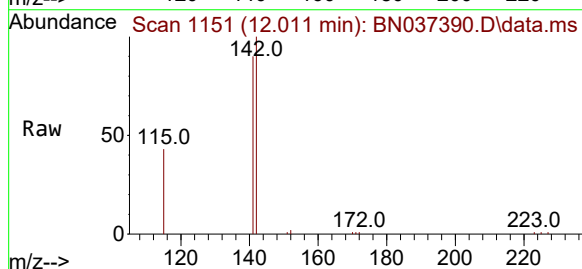
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

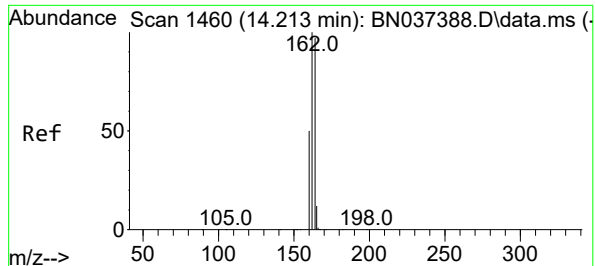
Tgt Ion:152 Resp: 9434
Ion Ratio Lower Upper
152 100
151 21.5 18.4 27.6



#12
2-Methylnaphthalene
Concen: 1.685 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:142 Resp: 11211
Ion Ratio Lower Upper
142 100
141 90.4 70.1 105.1
115 42.7 35.8 53.6

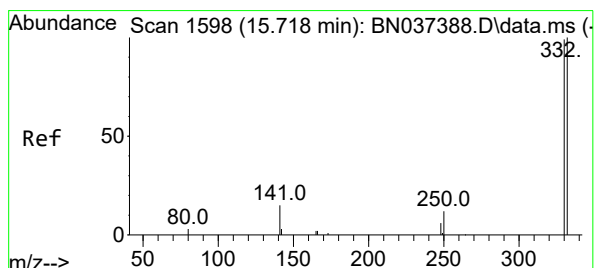
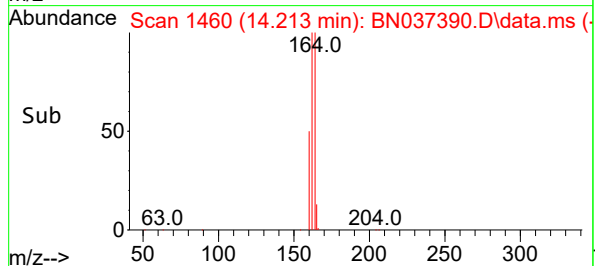
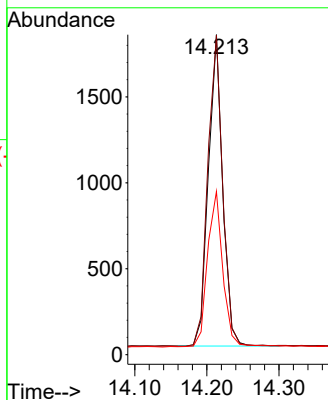
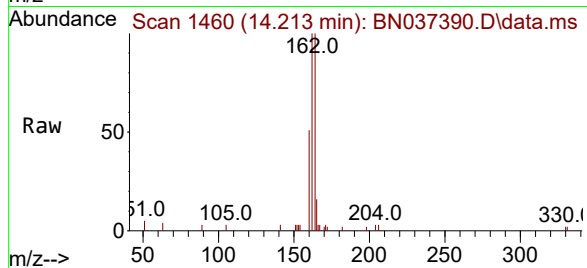




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

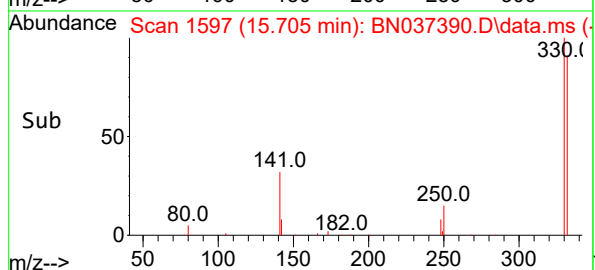
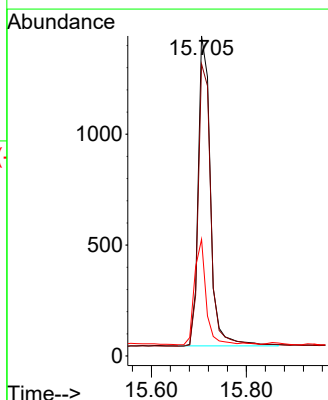
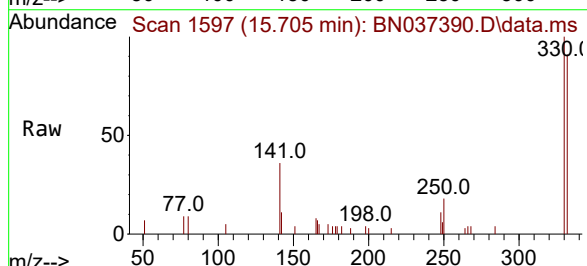
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

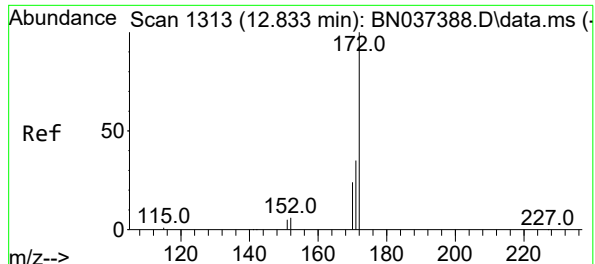
Tgt Ion:164 Resp: 2497
Ion Ratio Lower Upper
164 100
162 99.8 82.6 123.8
160 51.0 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 1.710 ng
RT: 15.705 min Scan# 1597
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:330 Resp: 2504
Ion Ratio Lower Upper
330 100
332 94.9 77.8 116.8
141 31.8 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 1.666 ng

RT: 12.833 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

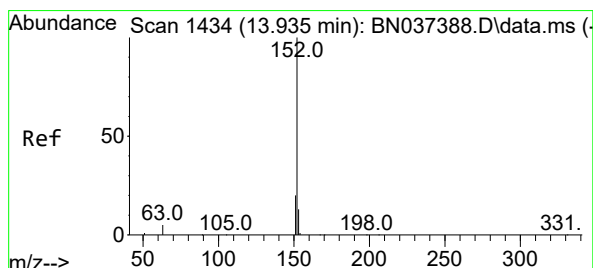
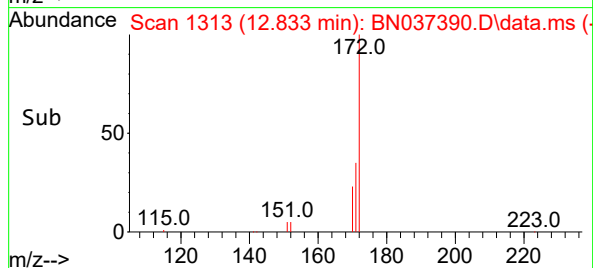
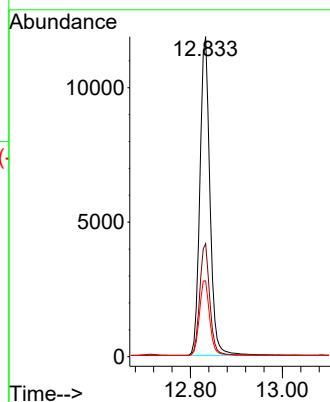
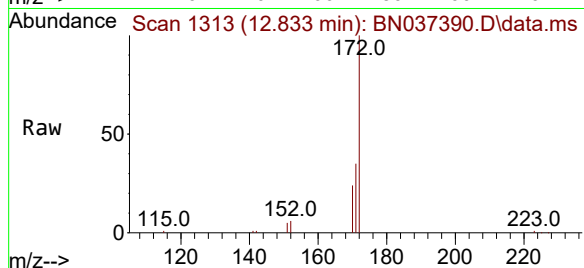
Tgt Ion:172 Resp: 17962

Ion Ratio Lower Upper

172 100

171 35.3 28.8 43.2

170 23.7 20.3 30.5



#16

Acenaphthylene

Concen: 1.653 ng

RT: 13.925 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

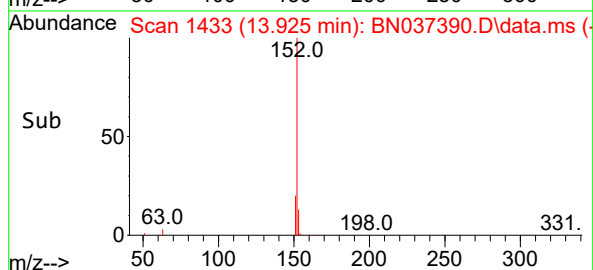
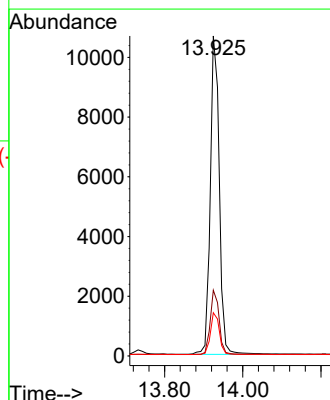
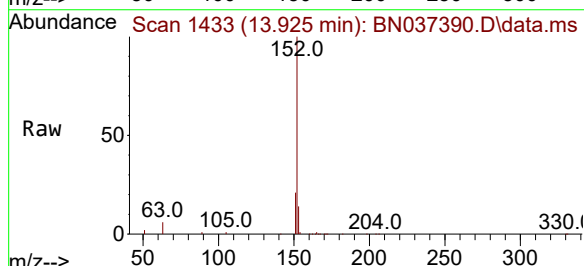
Tgt Ion:152 Resp: 17120

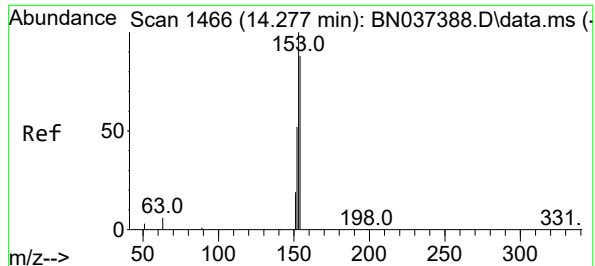
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.6

153 13.1 10.3 15.5





#17

Acenaphthene

Concen: 1.659 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

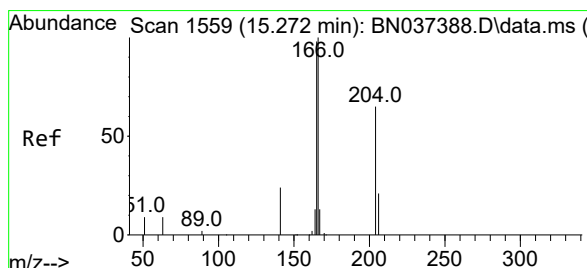
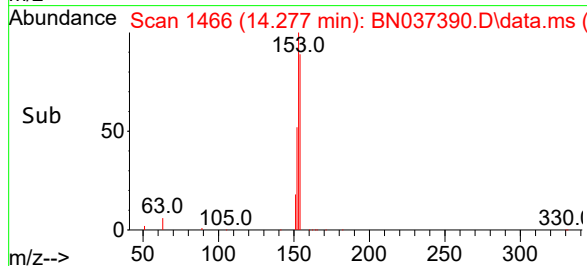
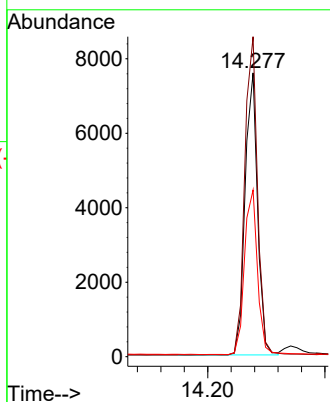
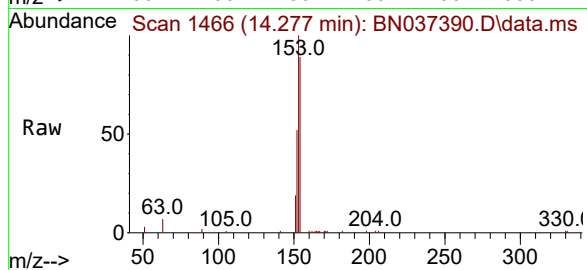
Tgt Ion:154 Resp: 11218

Ion Ratio Lower Upper

154 100

153 115.8 94.6 141.8

152 61.2 50.2 75.2



#18

Fluorene

Concen: 1.676 ng

RT: 15.272 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

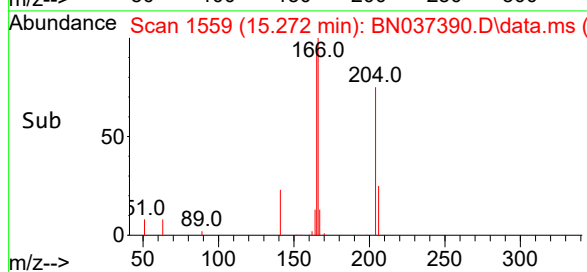
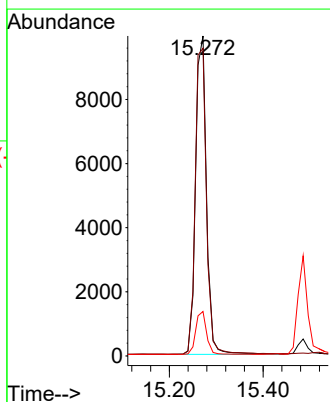
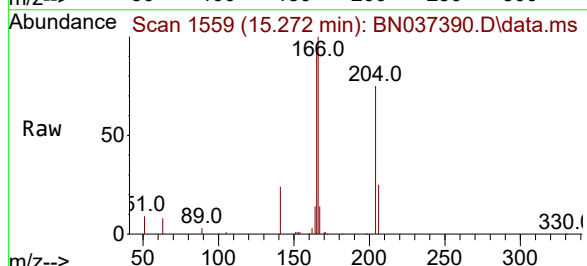
Tgt Ion:166 Resp: 16008

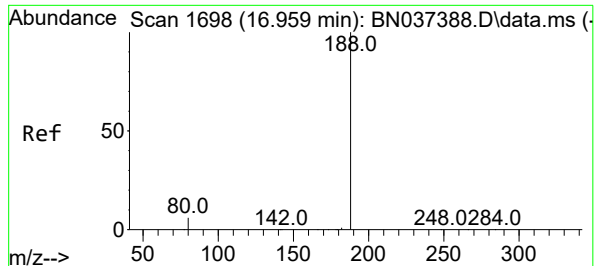
Ion Ratio Lower Upper

166 100

165 99.2 79.4 119.2

167 13.5 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

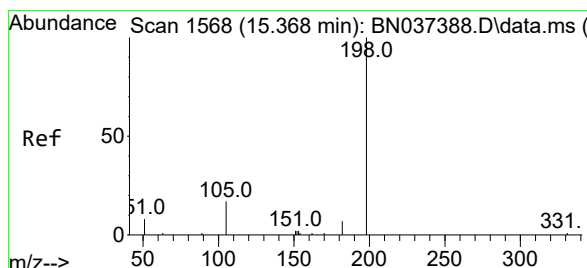
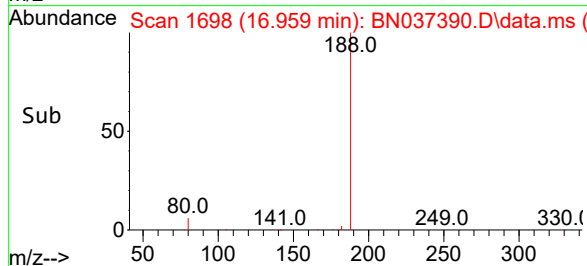
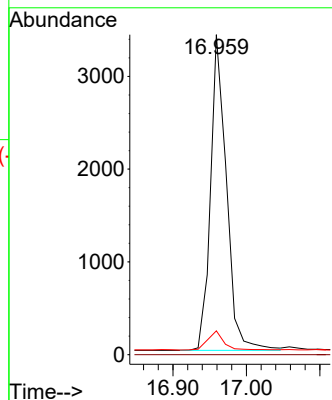
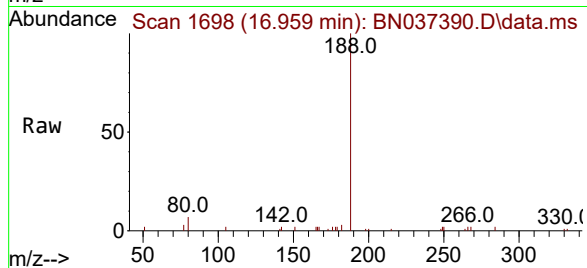
Tgt Ion:188 Resp: 5134

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.762 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

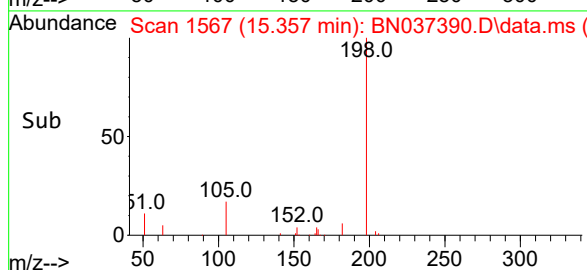
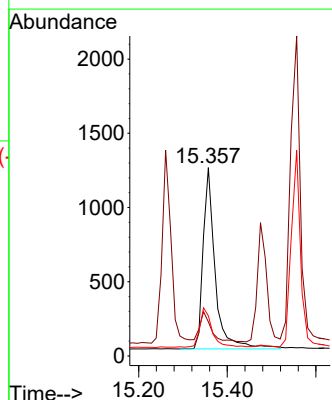
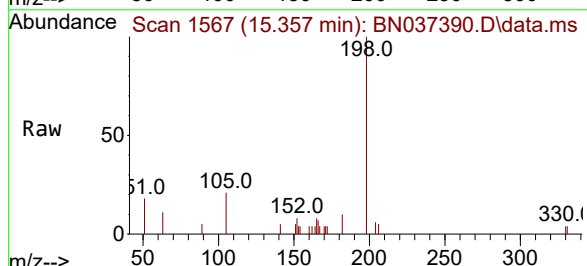
Tgt Ion:198 Resp: 2324

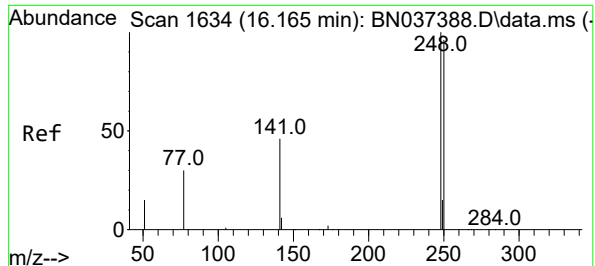
Ion Ratio Lower Upper

198 100

51 18.0 38.8 58.2#

105 21.3 29.8 44.6#

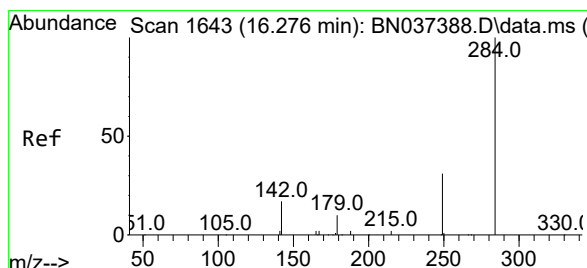
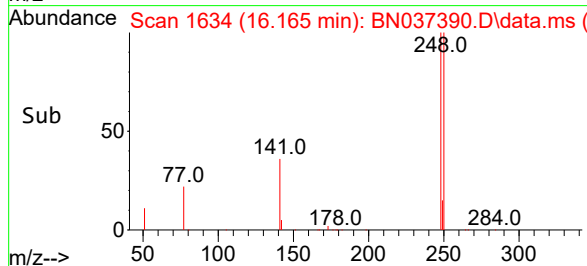
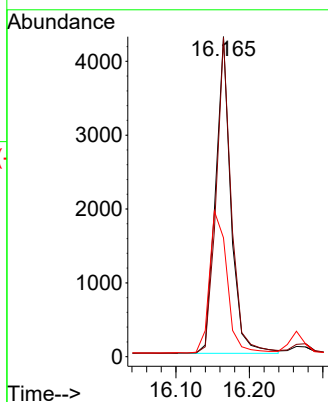
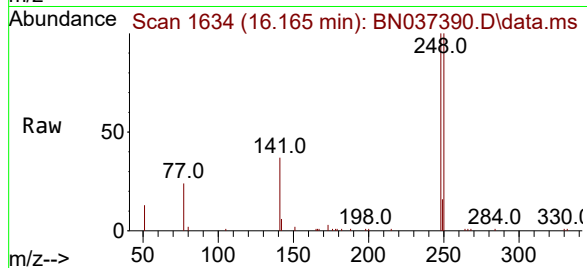




#21
4-Bromophenyl-phenylether
Concen: 1.718 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

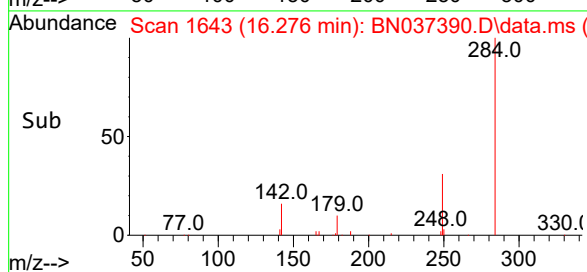
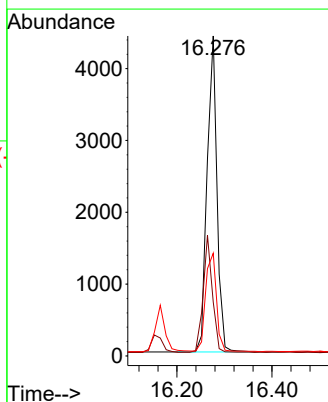
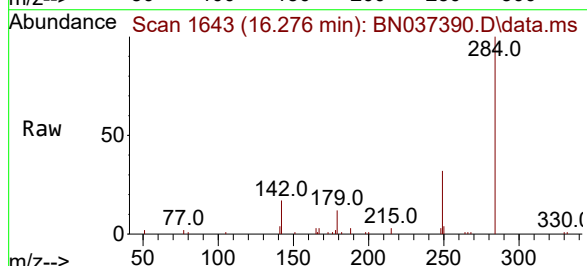
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

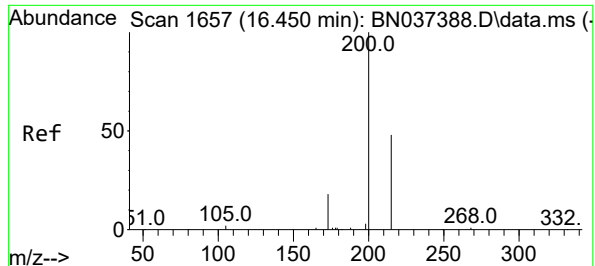
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.7	77.0	115.4
141	37.2	38.7	58.1#



#22
Hexachlorobenzene
Concen: 1.638 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.9	27.2	40.8
249	34.5	26.7	40.1

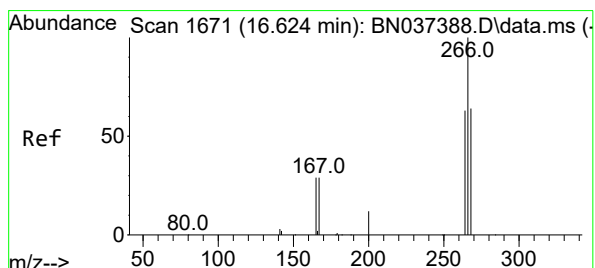
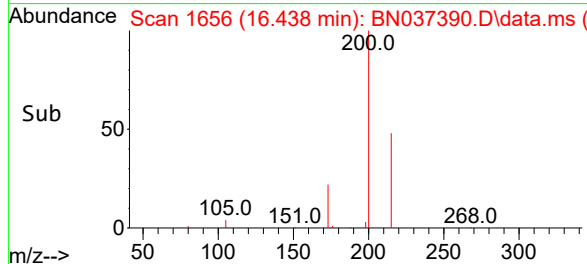
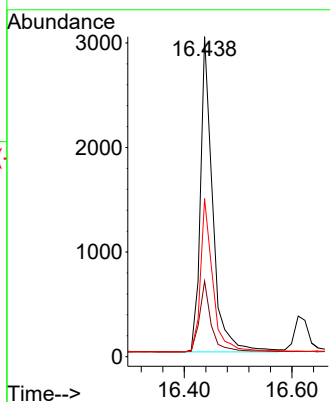
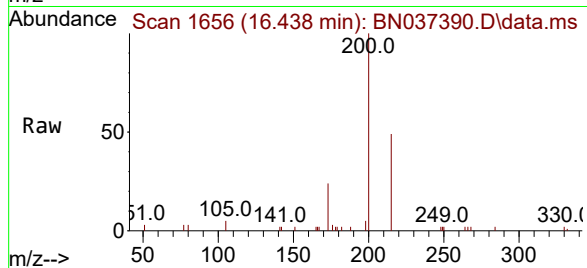




#23
Atrazine
Concen: 1.663 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

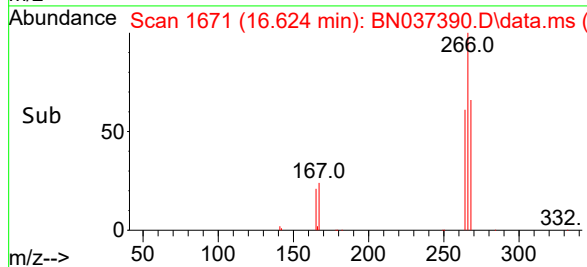
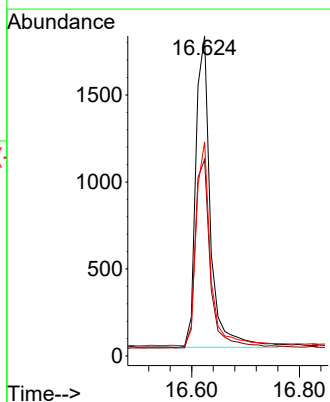
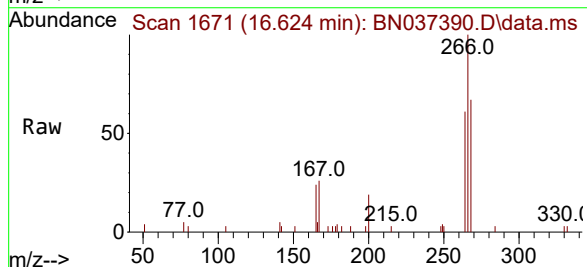
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

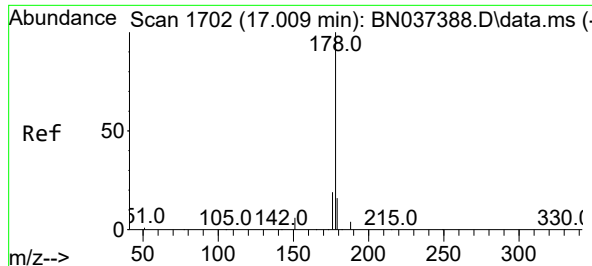
Tgt Ion:200 Resp: 4771
Ion Ratio Lower Upper
200 100
173 23.6 19.0 28.6
215 49.4 41.3 61.9



#24
Pentachlorophenol
Concen: 1.612 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:266 Resp: 3391
Ion Ratio Lower Upper
266 100
264 63.2 49.2 73.8
268 63.9 54.2 81.4

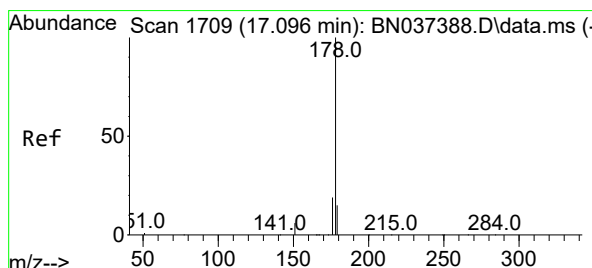
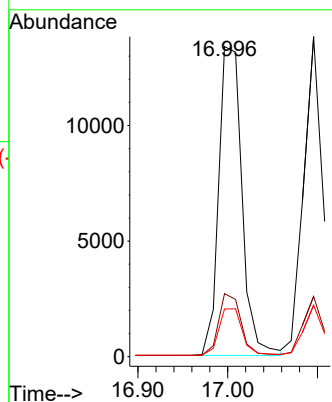
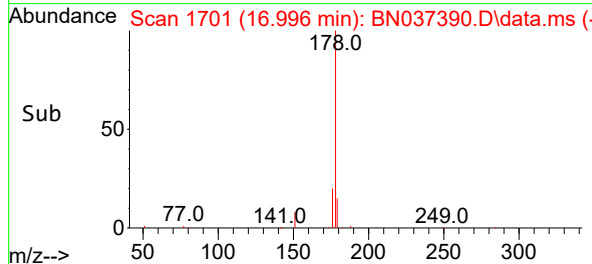
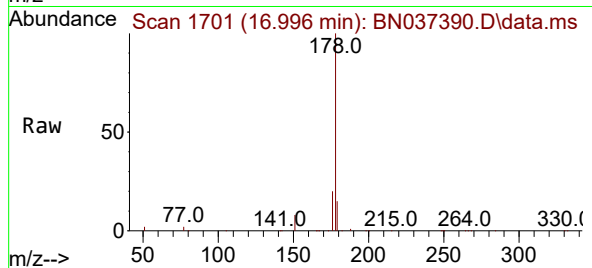




#25
Phenanthrene
Concen: 1.663 ng
RT: 16.996 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

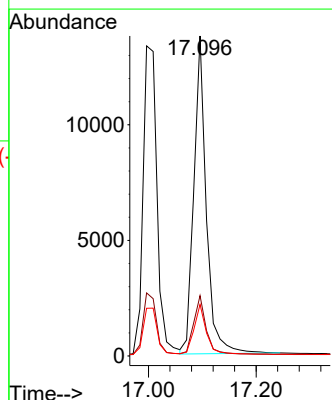
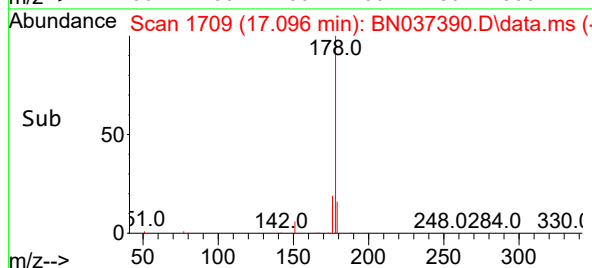
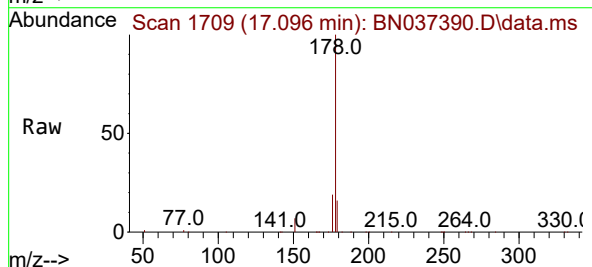
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

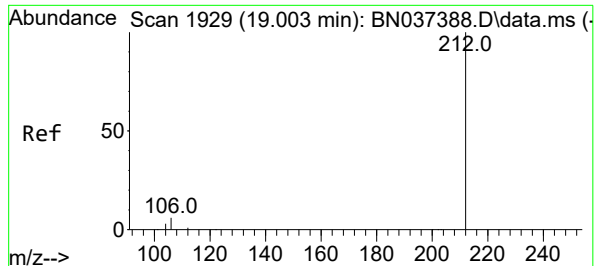
Tgt Ion:178 Resp: 24063
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.2 12.8 19.2



#26
Anthracene
Concen: 1.662 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:178 Resp: 22103
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.7 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.565 ng

RT: 18.998 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

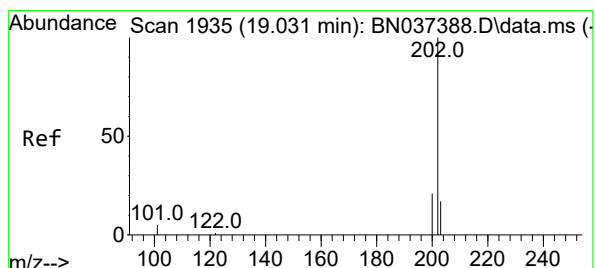
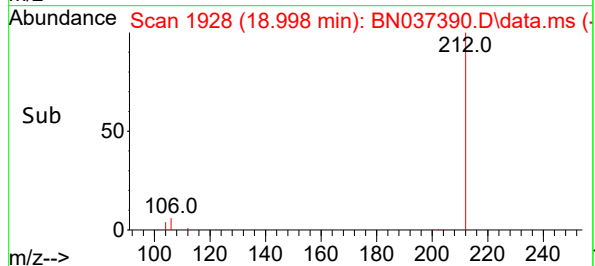
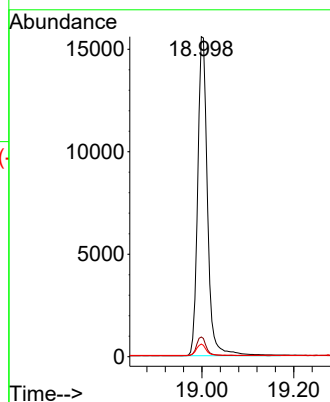
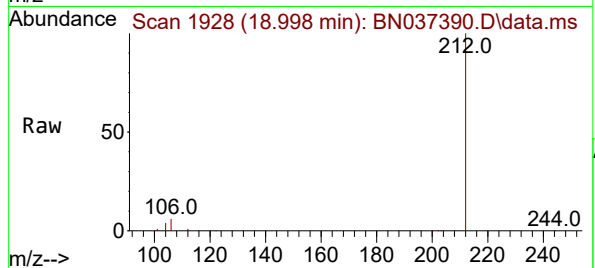
Tgt Ion:212 Resp: 23030

Ion Ratio Lower Upper

212 100

106 5.8 4.5 6.7

104 3.6 2.7 4.1



#28

Fluoranthene

Concen: 1.653 ng

RT: 19.031 min Scan# 1935

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

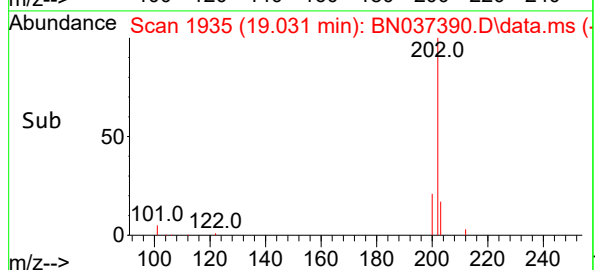
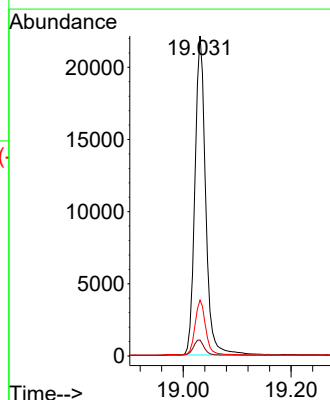
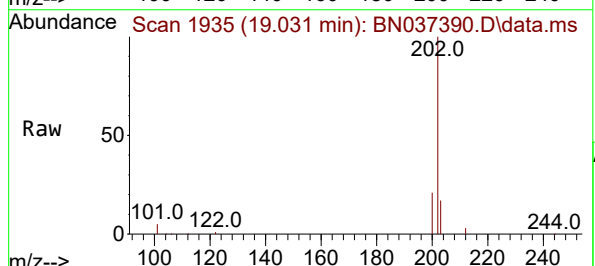
Tgt Ion:202 Resp: 30535

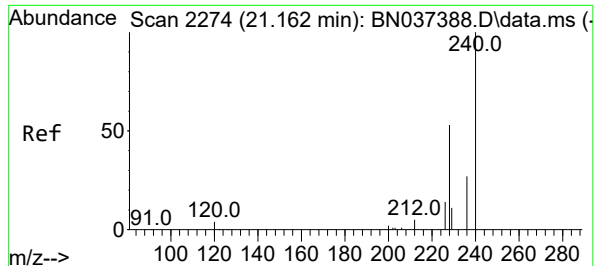
Ion Ratio Lower Upper

202 100

101 5.1 3.8 5.6

203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

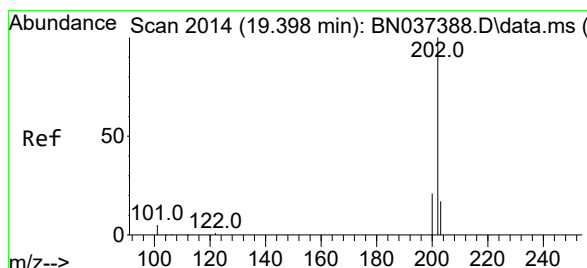
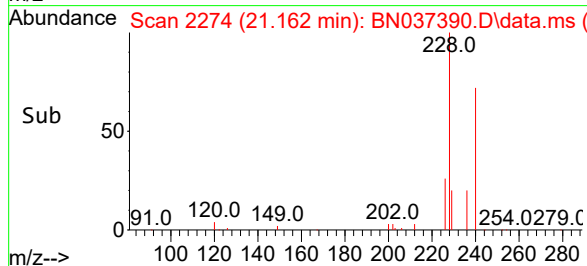
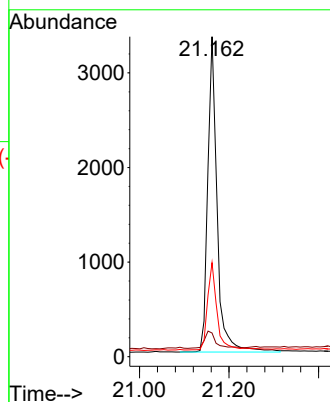
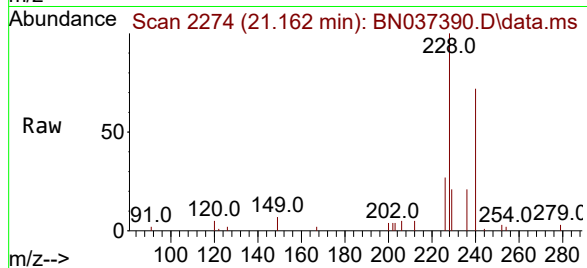
Tgt Ion:240 Resp: 4846

Ion Ratio Lower Upper

240 100

120 7.4 5.3 7.9

236 29.4 22.7 34.1



#30

Pyrene

Concen: 1.650 ng

RT: 19.393 min Scan# 2013

Delta R.T. -0.005 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

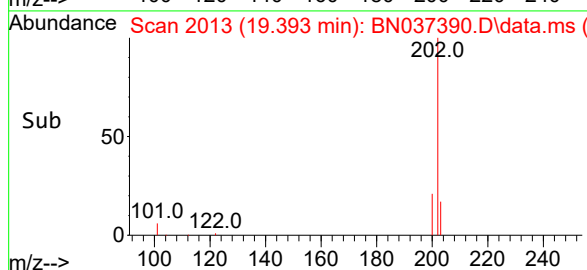
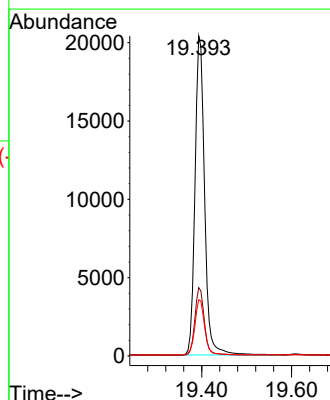
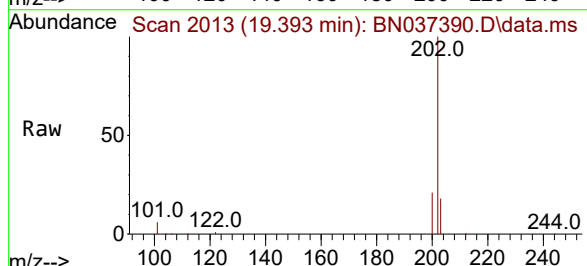
Tgt Ion:202 Resp: 30249

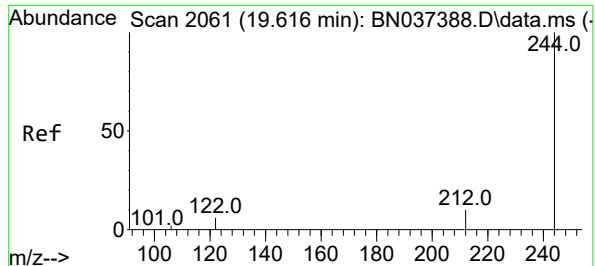
Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

203 17.7 14.2 21.2

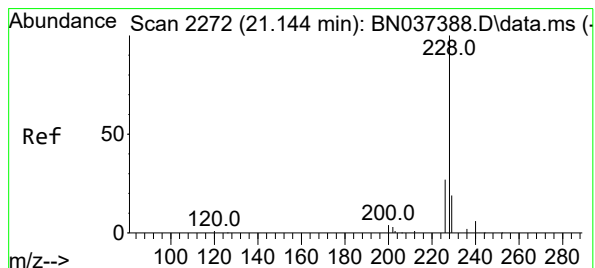
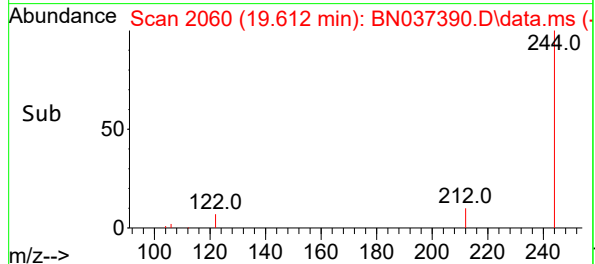
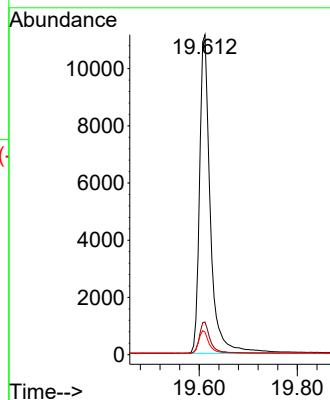
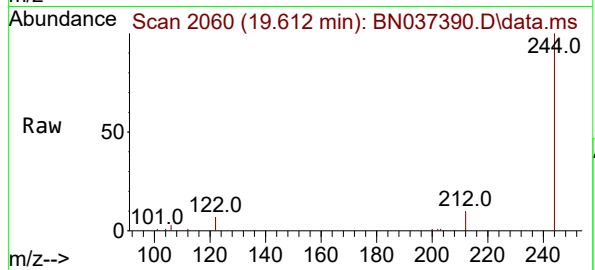




#31
Terphenyl-d14
Concen: 1.647 ng
RT: 19.612 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

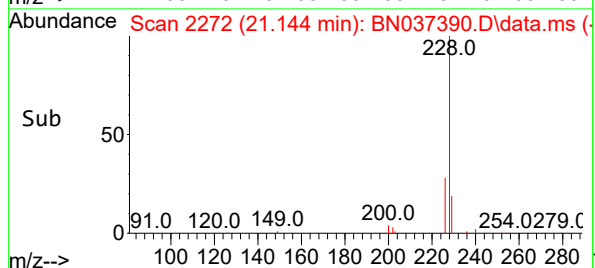
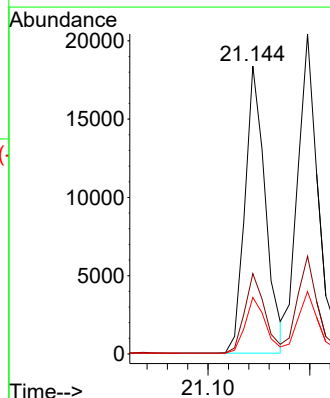
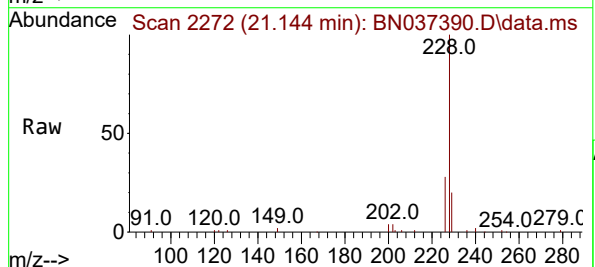
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

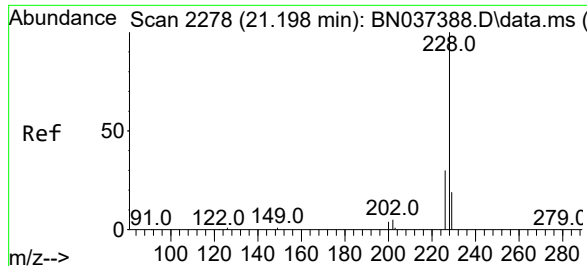
Tgt Ion:244 Resp: 17013
Ion Ratio Lower Upper
244 100
212 10.2 9.1 13.7
122 7.1 6.3 9.5



#32
Benzo(a)anthracene
Concen: 1.678 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:228 Resp: 25546
Ion Ratio Lower Upper
228 100
226 27.9 22.6 34.0
229 19.6 16.2 24.2





#33

Chrysene

Concen: 1.598 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

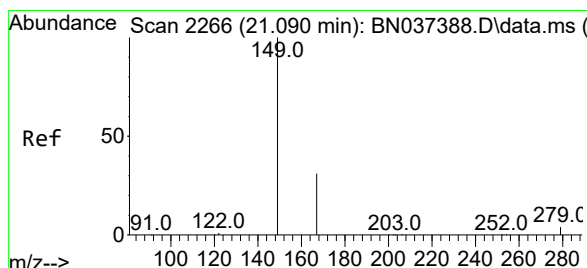
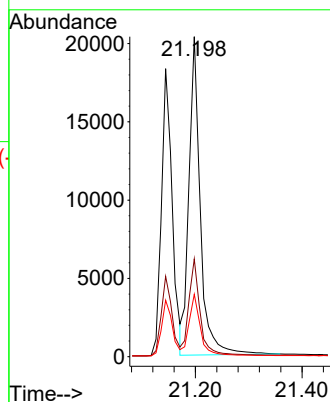
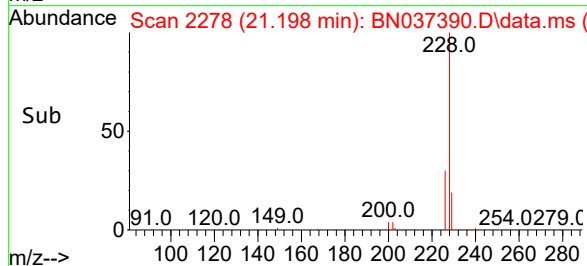
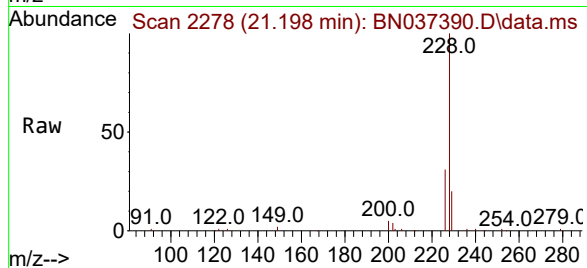
Tgt Ion:228 Resp: 30118

Ion Ratio Lower Upper

228 100

226 30.5 24.5 36.7

229 19.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.548 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

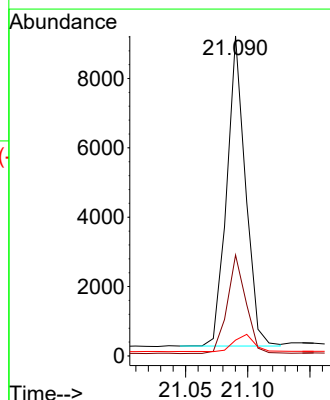
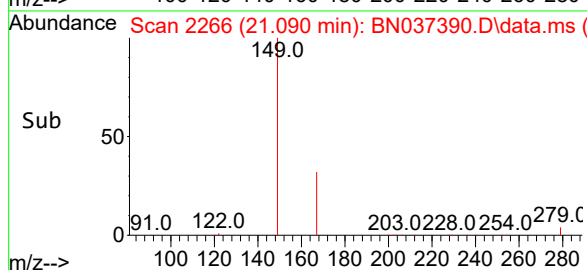
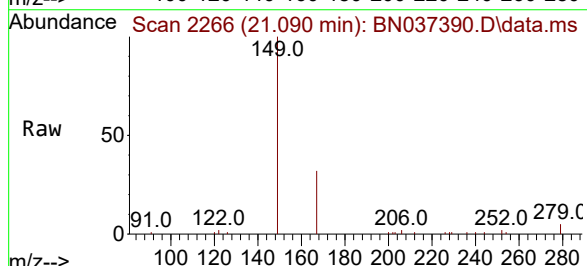
Tgt Ion:149 Resp: 9332

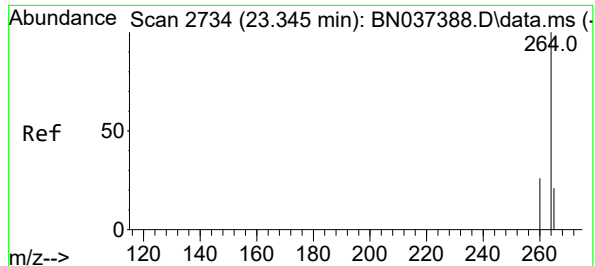
Ion Ratio Lower Upper

149 100

167 31.7 24.8 37.2

279 6.3 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

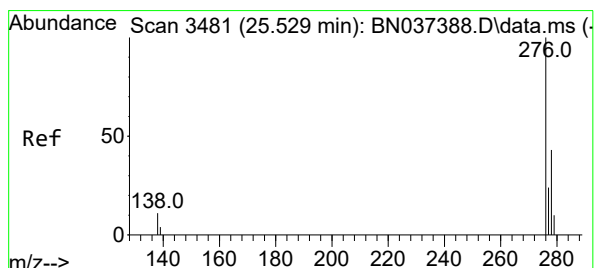
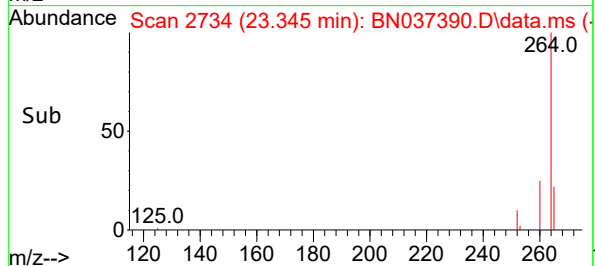
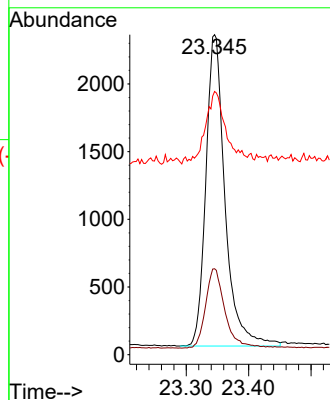
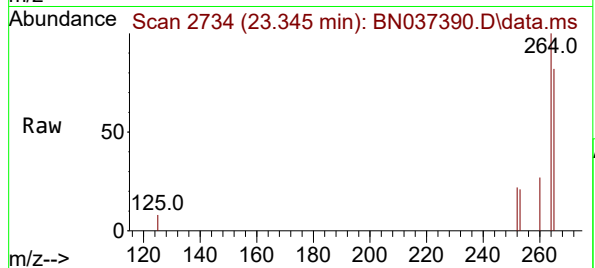
Tgt Ion:264 Resp: 4921

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.0

265 82.2 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.694 ng

RT: 25.529 min Scan# 3481

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

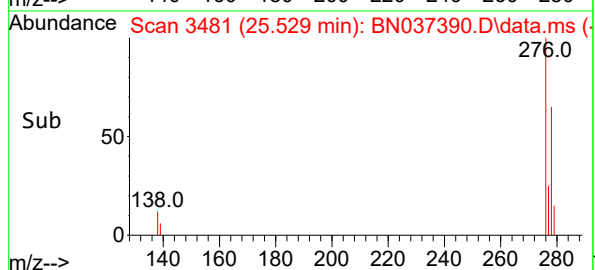
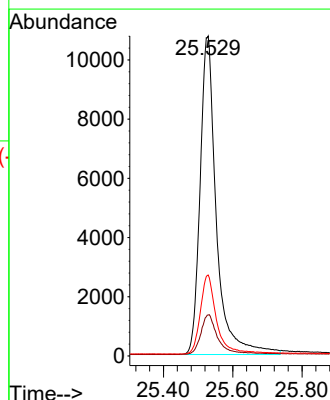
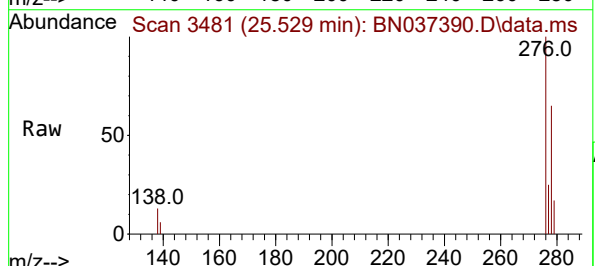
Tgt Ion:276 Resp: 35151

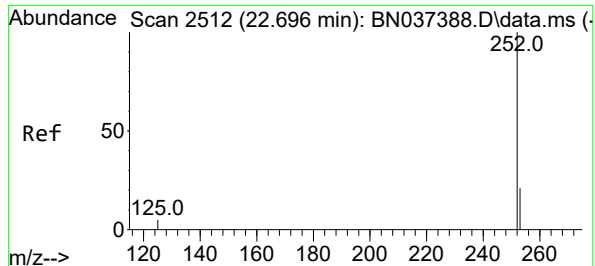
Ion Ratio Lower Upper

276 100

138 12.7 8.5 12.7

277 24.5 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 1.661 ng

RT: 22.690 min Scan# 2510

Delta R.T. -0.006 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

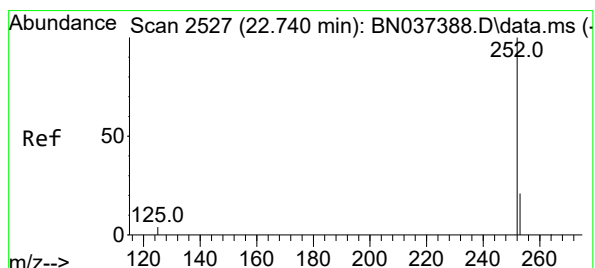
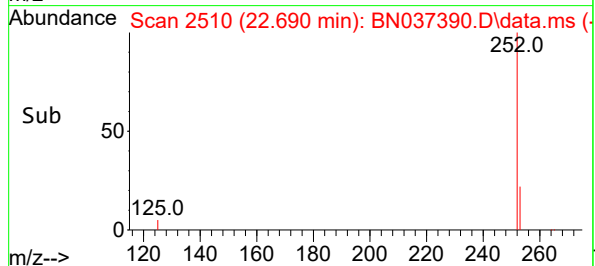
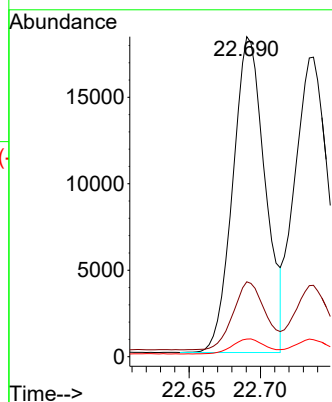
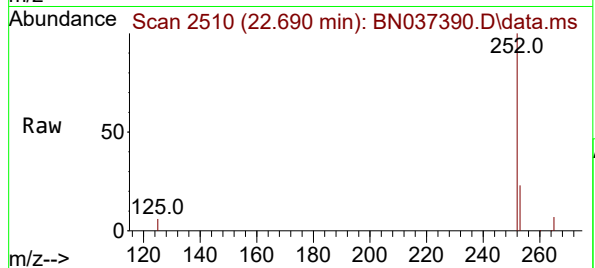
Tgt Ion:252 Resp: 28814

Ion Ratio Lower Upper

252 100

253 23.4 22.8 34.2

125 5.5 6.2 9.4#



#38

Benzo(k)fluoranthene

Concen: 1.648 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

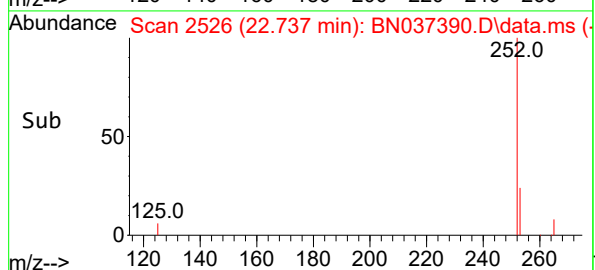
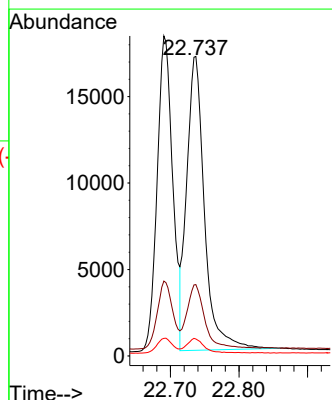
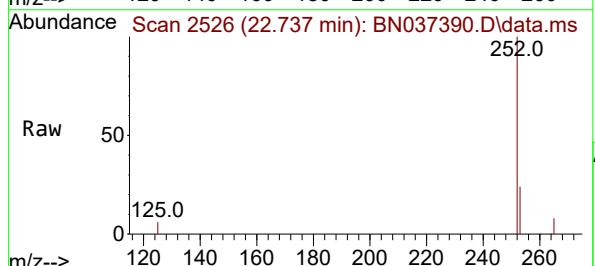
Tgt Ion:252 Resp: 30557

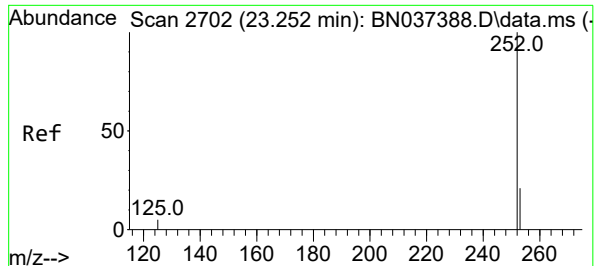
Ion Ratio Lower Upper

252 100

253 23.8 23.2 34.8

125 5.7 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 1.640 ng

RT: 23.249 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

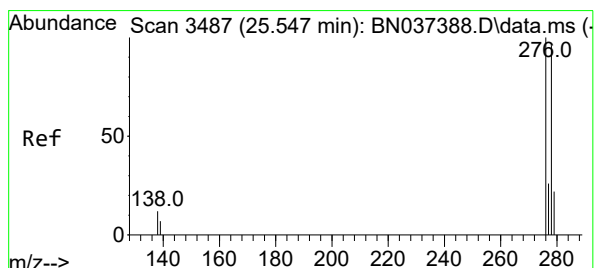
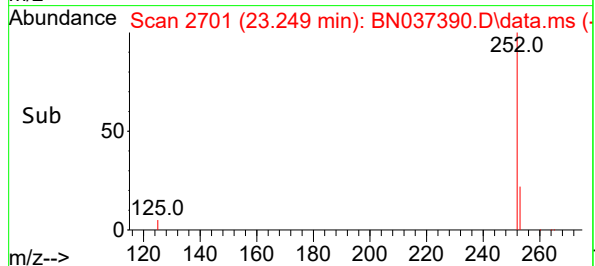
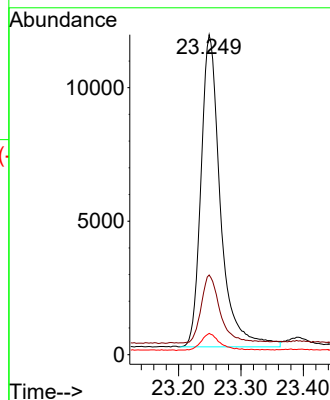
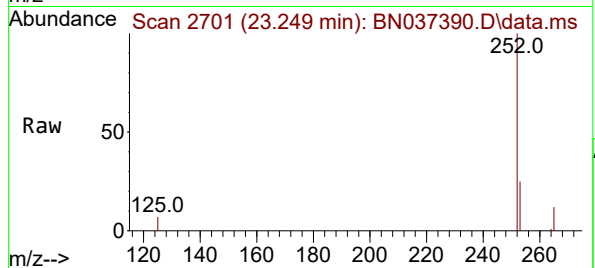
Tgt Ion:252 Resp: 25315

Ion Ratio Lower Upper

252 100

253 24.9 25.6 38.4#

125 6.6 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.722 ng

RT: 25.538 min Scan# 3484

Delta R.T. -0.009 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

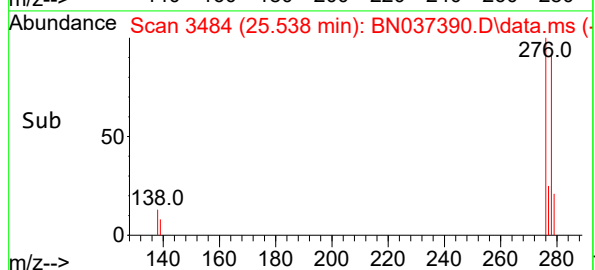
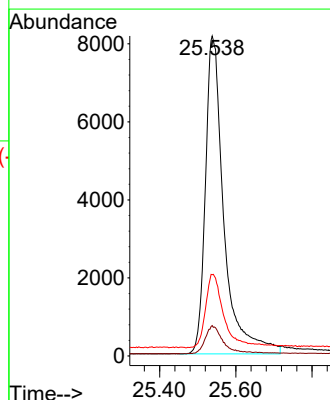
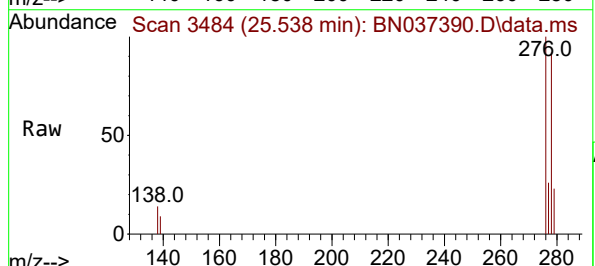
Tgt Ion:278 Resp: 27440

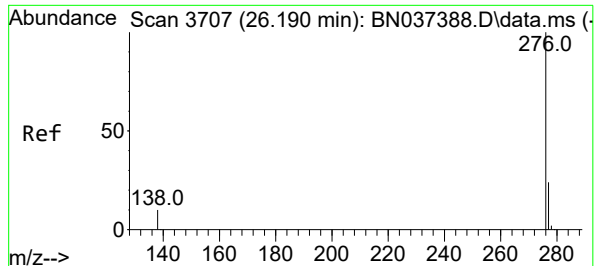
Ion Ratio Lower Upper

278 100

139 9.5 8.5 12.7

279 25.4 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 1.671 ng

RT: 26.187 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037390.D

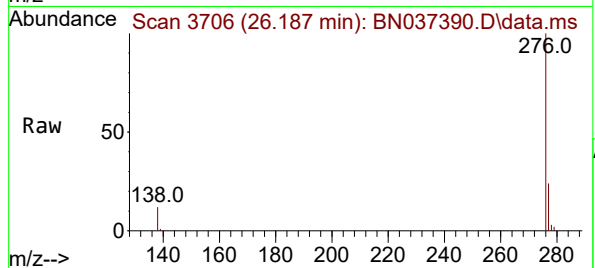
Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



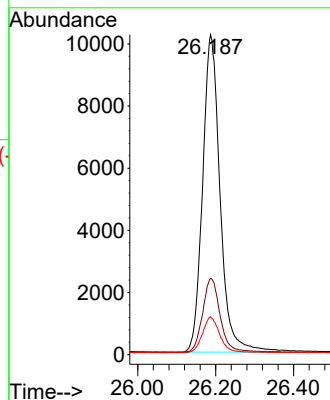
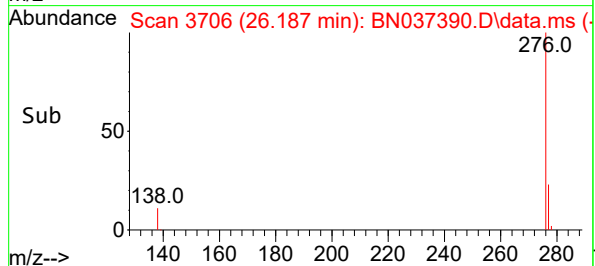
Tgt Ion:276 Resp: 31821

Ion Ratio Lower Upper

276 100

277 23.9 21.0 31.4

138 11.8 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037391.D
 Acq On : 26 Jun 2025 13:41
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jun 26 14:45:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

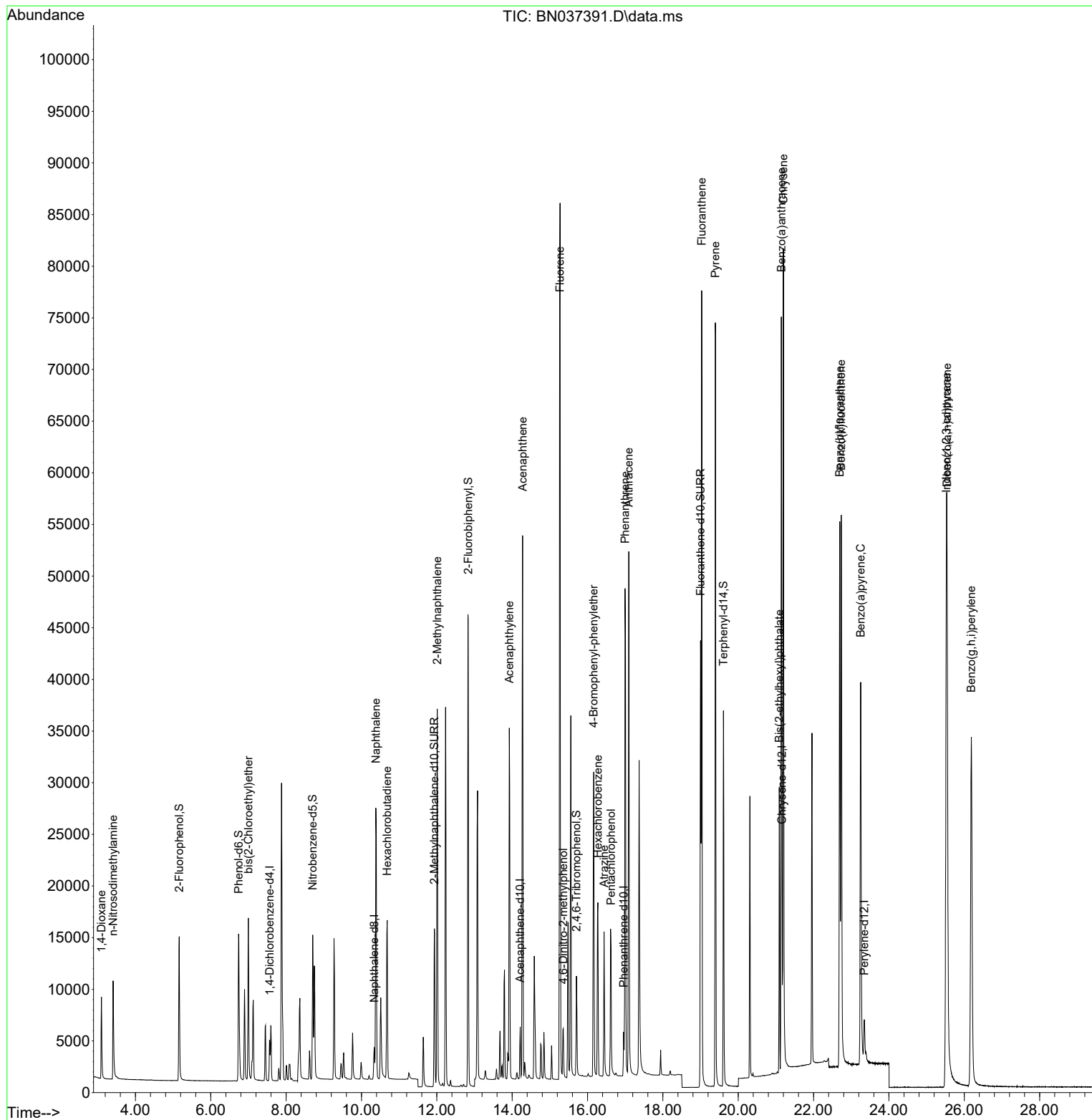
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1913	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4102	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2755	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	5771	0.400	ng	0.00
29) Chrysene-d12	21.162	240	5566	0.400	ng	0.00
35) Perylene-d12	23.348	264	5442	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	11831	3.209	ng	0.00
5) Phenol-d6	6.744	99	13561	3.547	ng	0.00
8) Nitrobenzene-d5	8.707	82	11574	3.508	ng	-0.01
11) 2-Methylnaphthalene-d10	11.935	152	21511	3.390	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	5638	3.489	ng	-0.01
15) 2-Fluorobiphenyl	12.833	172	39687	3.337	ng	0.00
27) Fluoranthene-d10	18.998	212	53268	3.221	ng	0.00
31) Terphenyl-d14	19.607	244	39701	3.345	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	5559	3.243	ng	96
3) n-Nitrosodimethylamine	3.408	42	5726	3.196	ng	# 93
6) bis(2-Chloroethyl)ether	6.997	93	11865	3.490	ng	96
9) Naphthalene	10.383	128	34450	3.263	ng	96
10) Hexachlorobutadiene	10.682	225	13273	3.167	ng	# 98
12) 2-Methylnaphthalene	12.011	142	25164	3.461	ng	97
16) Acenaphthylene	13.924	152	38375	3.359	ng	100
17) Acenaphthene	14.277	154	25275	3.388	ng	97
18) Fluorene	15.271	166	36211	3.437	ng	100
20) 4,6-Dinitro-2-methylph...	15.357	198	5478	3.696	ng	# 55
21) 4-Bromophenyl-phenylether	16.165	248	13953	3.427	ng	# 91
22) Hexachlorobenzene	16.276	284	13881	3.171	ng	98
23) Atrazine	16.438	200	11170	3.463	ng	96
24) Pentachlorophenol	16.624	266	7774	3.288	ng	97
25) Phenanthrene	16.996	178	54938	3.379	ng	99
26) Anthracene	17.095	178	51719	3.460	ng	100
28) Fluoranthene	19.031	202	69575	3.351	ng	99
30) Pyrene	19.393	202	69001	3.276	ng	99
32) Benzo(a)anthracene	21.144	228	60725	3.472	ng	98
33) Chrysene	21.198	228	67241	3.106	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	21735	3.139	ng	100
36) Indeno(1,2,3-cd)pyrene	25.526	276	80692	3.517	ng	# 97
37) Benzo(b)fluoranthene	22.693	252	65471	3.412	ng	# 90
38) Benzo(k)fluoranthene	22.734	252	70234	3.425	ng	# 89
39) Benzo(a)pyrene	23.252	252	58393	3.422	ng	# 86
40) Dibenzo(a,h)anthracene	25.541	278	64655	3.668	ng	# 86
41) Benzo(g,h,i)perylene	26.187	276	72186	3.427	ng	96

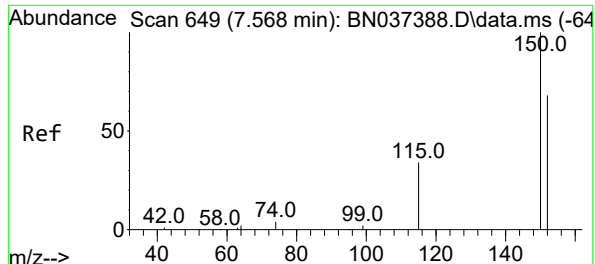
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037391.D
Acq On : 26 Jun 2025 13:41
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 26 14:45:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

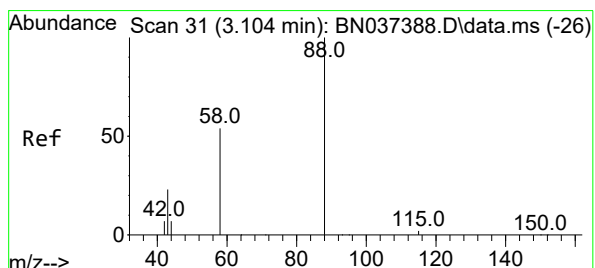
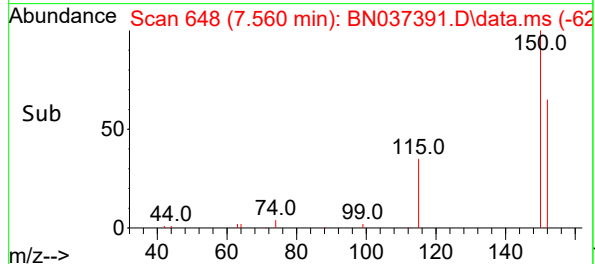
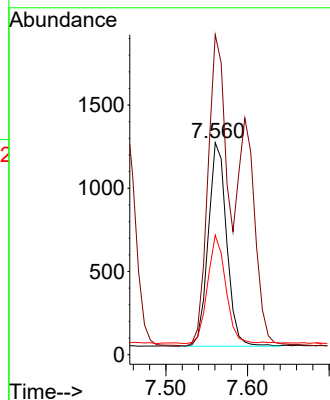
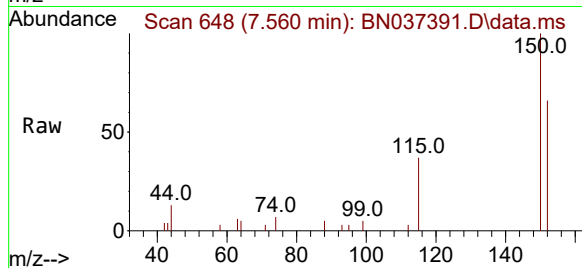




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

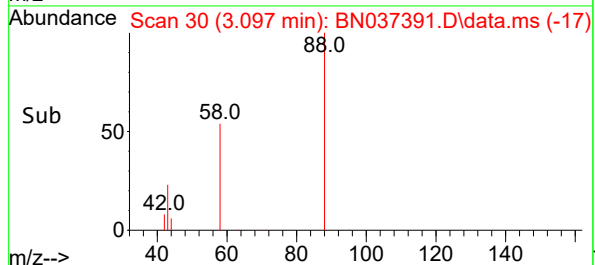
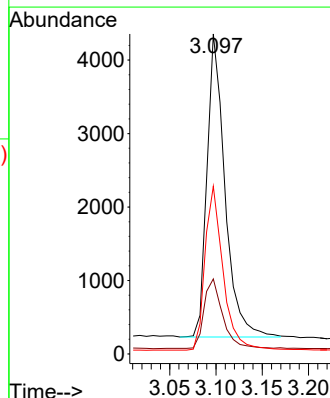
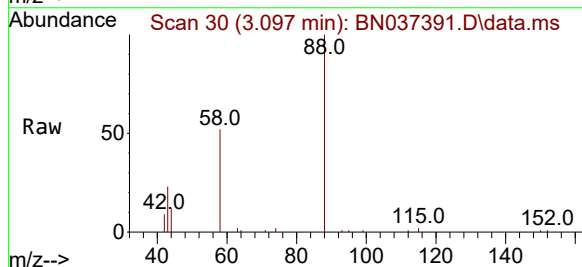
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

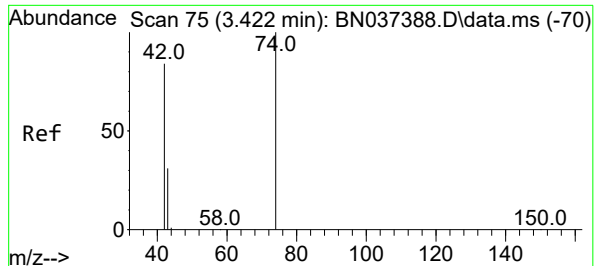
Tgt Ion:152 Resp: 1913
Ion Ratio Lower Upper
152 100
150 150.9 116.2 174.2
115 56.4 42.9 64.3



#2
1,4-Dioxane
Concen: 3.243 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion: 88 Resp: 5559
Ion Ratio Lower Upper
88 100
43 24.1 21.6 32.4
58 54.5 45.9 68.9

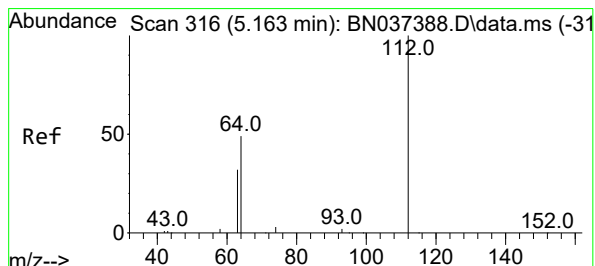
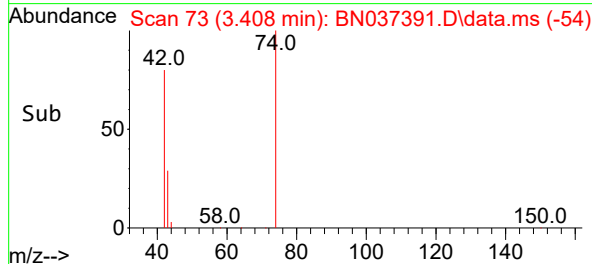
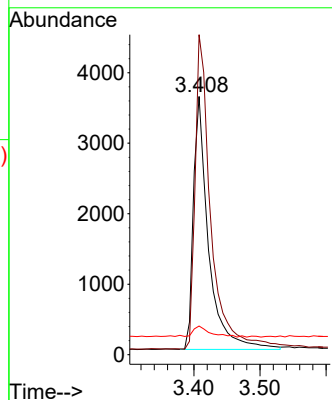
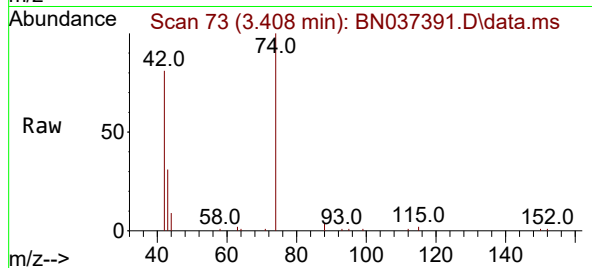




#3
n-Nitrosodimethylamine
Concen: 3.196 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

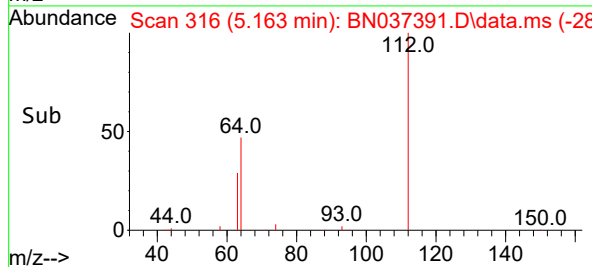
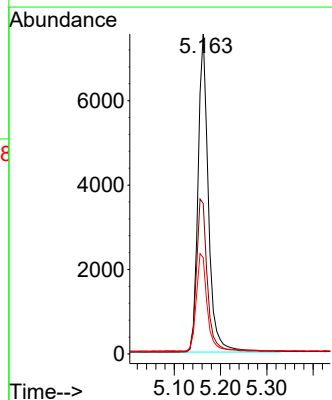
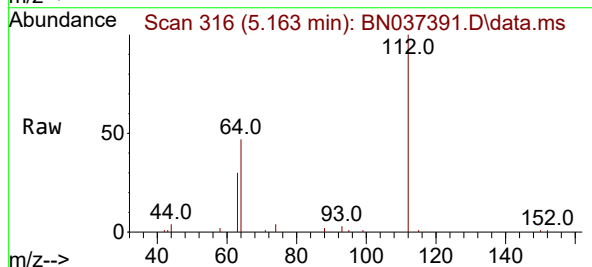
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

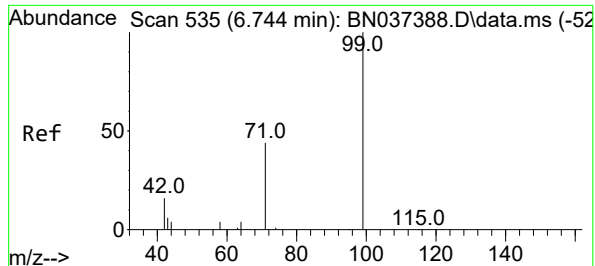
Tgt Ion: 42 Resp: 5726
Ion Ratio Lower Upper
42 100
74 129.6 97.8 146.8
44 5.2 8.7 13.1#



#4
2-Fluorophenol
Concen: 3.209 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion: 112 Resp: 11831
Ion Ratio Lower Upper
112 100
64 50.5 40.3 60.5
63 31.8 26.1 39.1

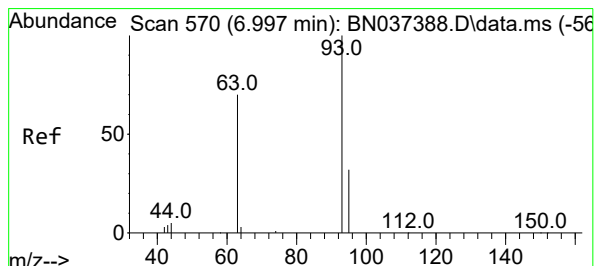
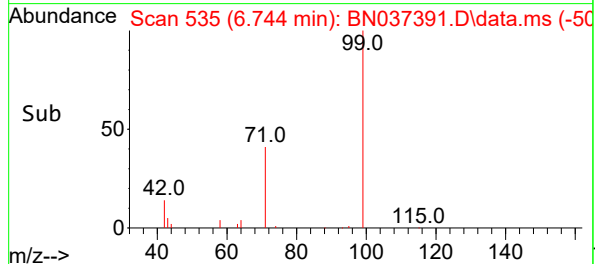
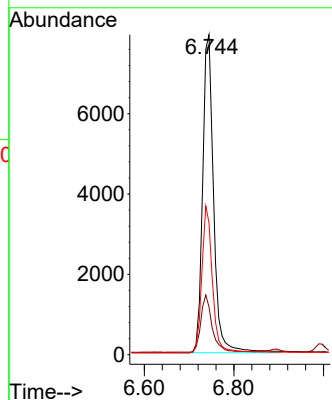
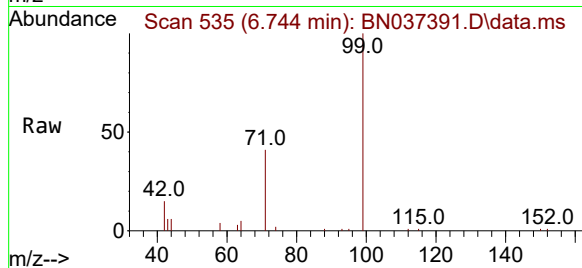




#5
Phenol-d6
Concen: 3.547 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

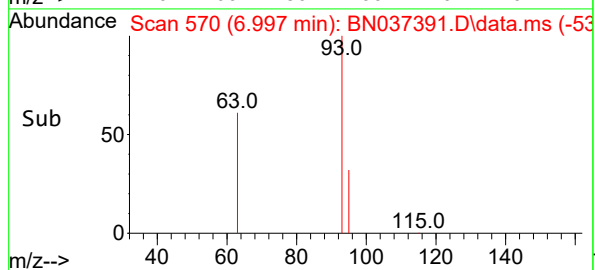
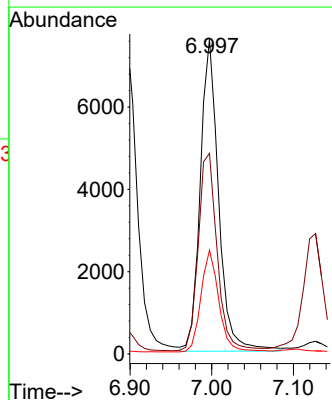
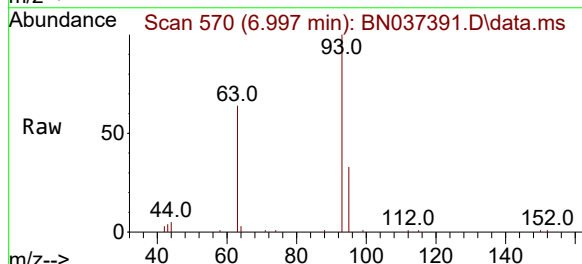
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

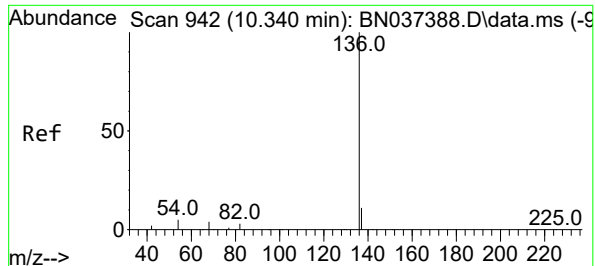
Tgt Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.6	23.4
71	44.5	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 3.490 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion	Ratio	Lower	Upper
93	100		
63	65.4	49.6	74.4
95	31.9	23.9	35.9

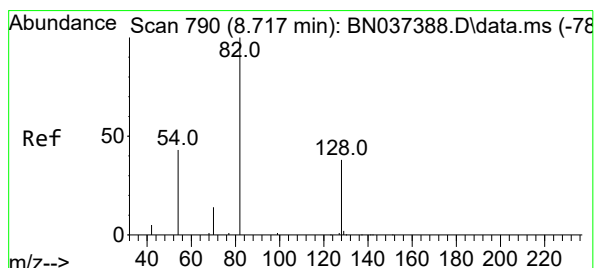
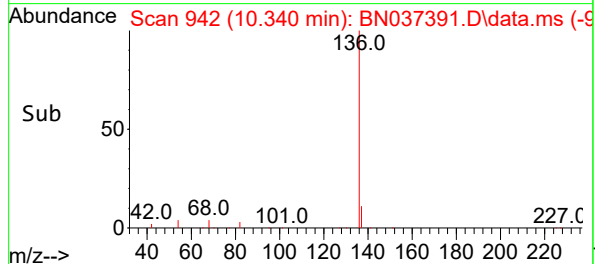
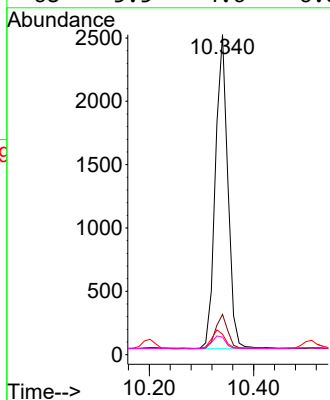
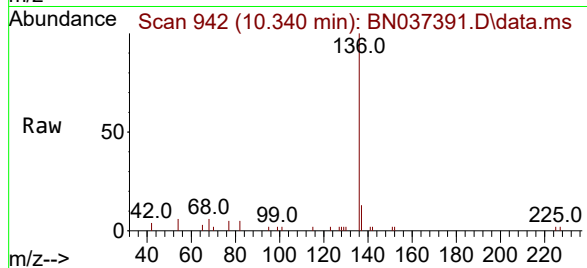




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

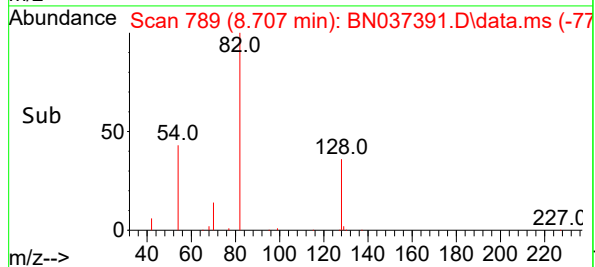
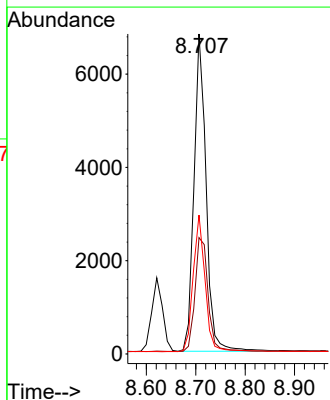
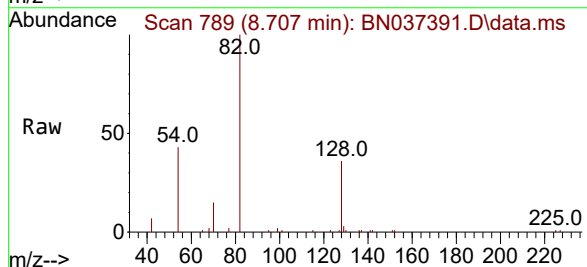
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

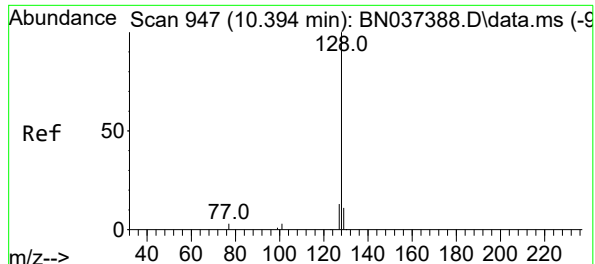
Tgt Ion:136	Resp:	4102
Ion	Ratio	Lower Upper
136	100	
137	12.6	10.4 15.6
54	6.4	5.6 8.4
68	5.5	4.6 6.8



#8
Nitrobenzene-d5
Concen: 3.508 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion: 82	Resp:	11574
Ion	Ratio	Lower Upper
82	100	
128	36.3	34.0 51.0
54	43.4	37.7 56.5





#9

Naphthalene

Concen: 3.263 ng

RT: 10.383 min Scan# 946

Delta R.T. -0.011 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

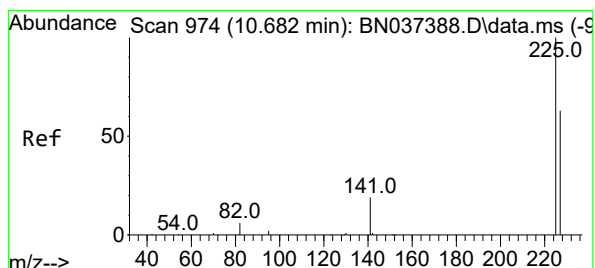
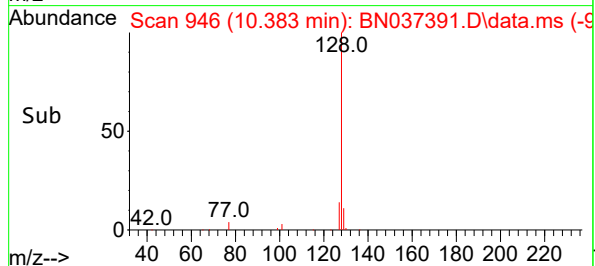
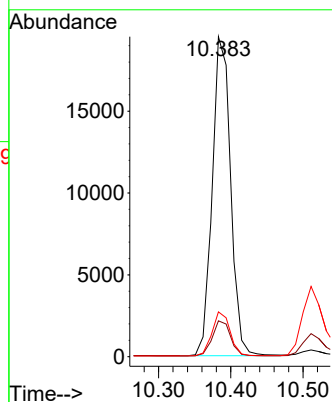
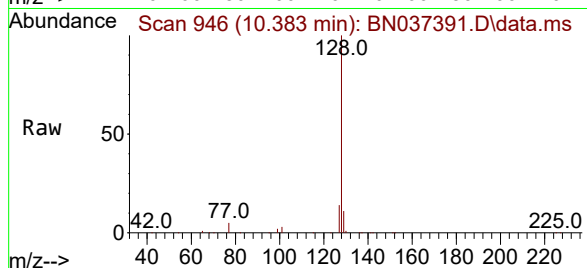
Tgt Ion:128 Resp: 34450

Ion Ratio Lower Upper

128 100

129 11.2 10.4 15.6

127 14.0 12.2 18.4



#10

Hexachlorobutadiene

Concen: 3.167 ng

RT: 10.682 min Scan# 974

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

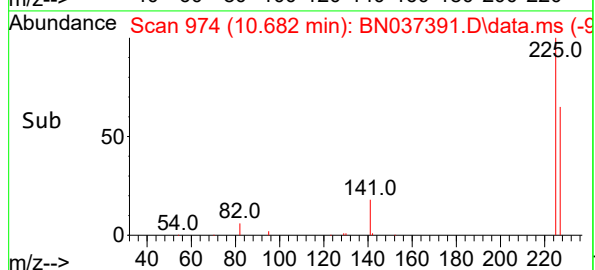
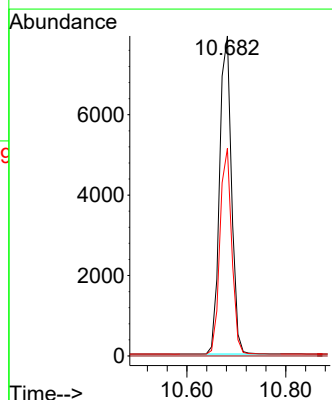
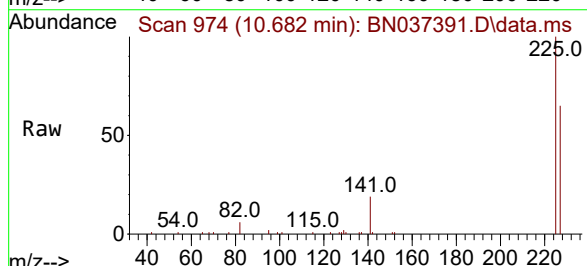
Tgt Ion:225 Resp: 13273

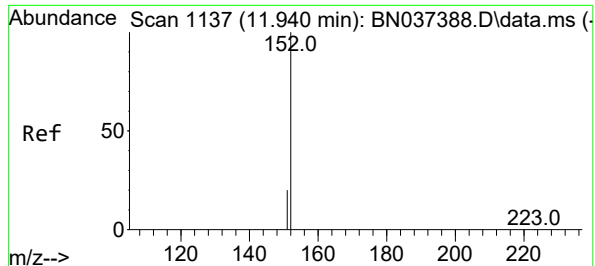
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 49.9 74.9

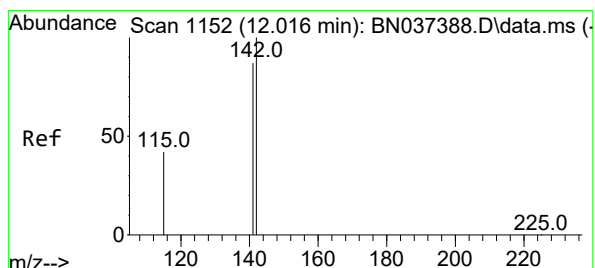
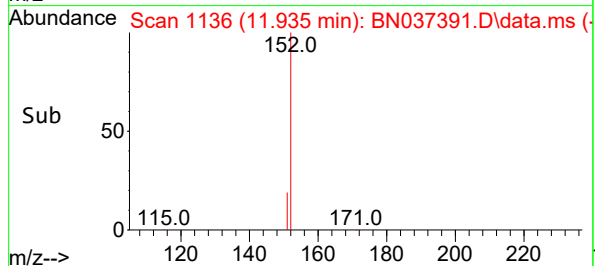
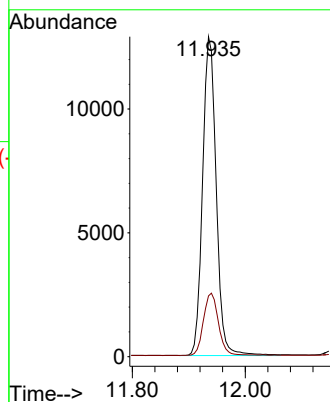
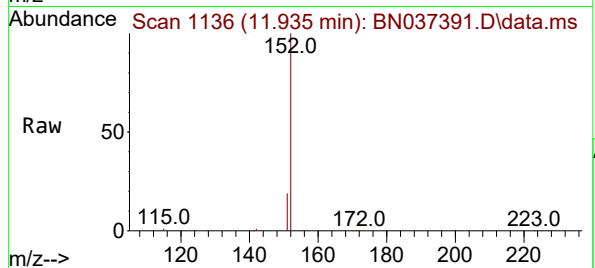




#11
2-Methylnaphthalene-d10
Concen: 3.390 ng
RT: 11.935 min Scan# 1136
Delta R.T. -0.005 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

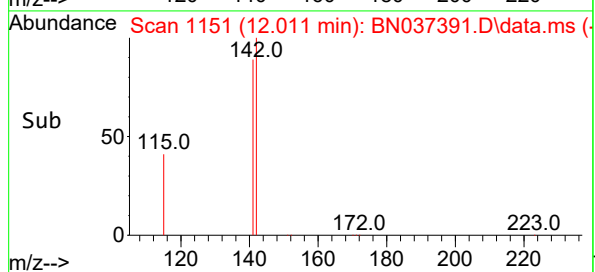
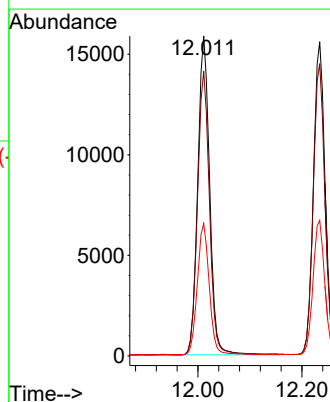
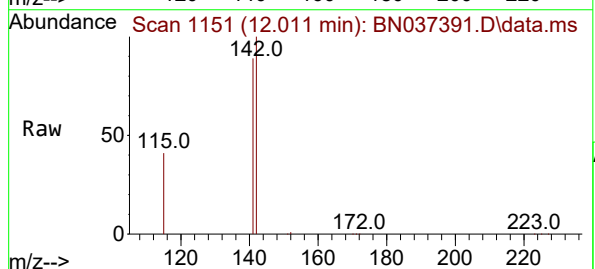
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

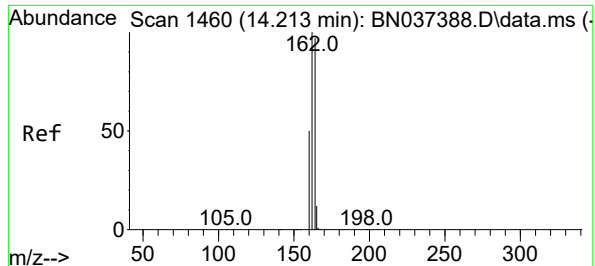
Tgt Ion:152 Resp: 21511
Ion Ratio Lower Upper
152 100
151 21.6 18.4 27.6



#12
2-Methylnaphthalene
Concen: 3.461 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:142 Resp: 25164
Ion Ratio Lower Upper
142 100
141 89.0 70.1 105.1
115 41.4 35.8 53.6

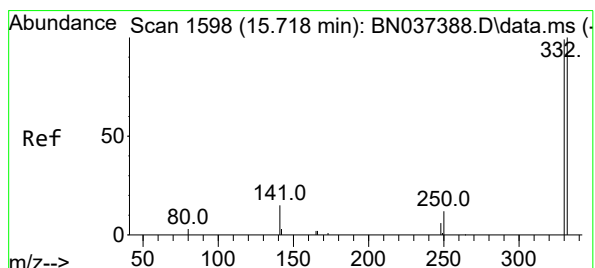
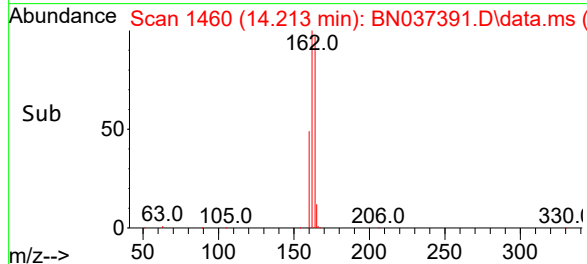
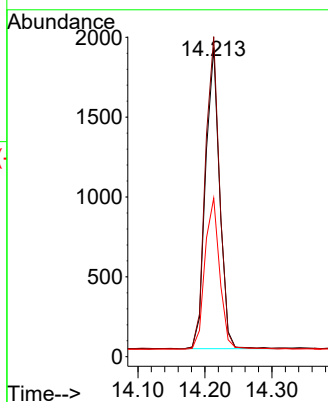
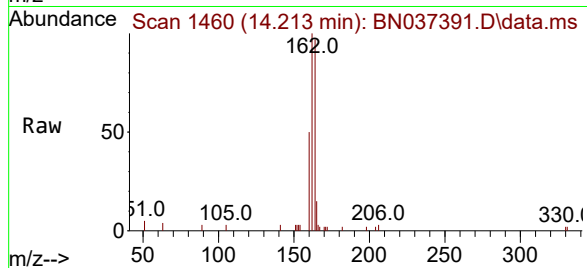




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

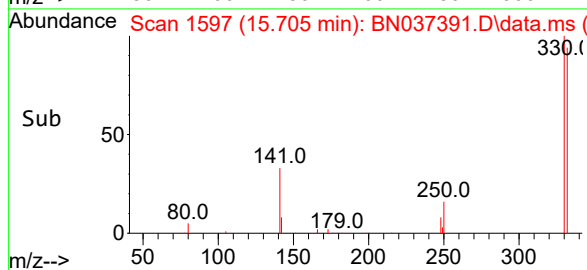
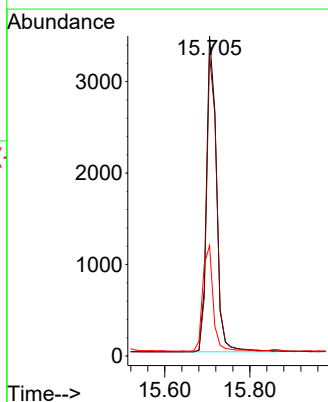
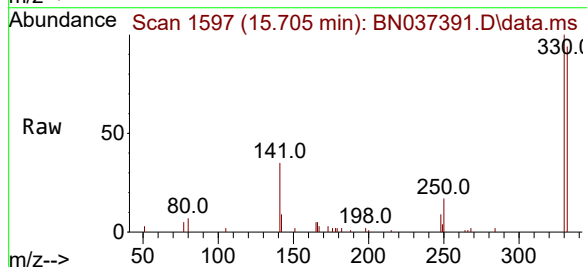
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

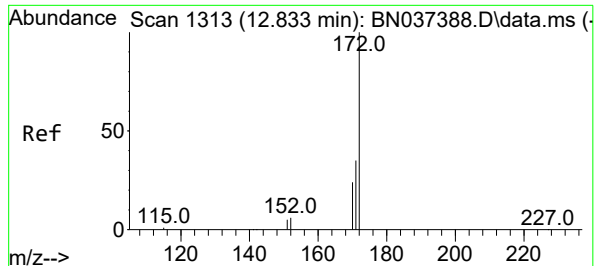
Tgt Ion	164	162	160
Resp:	2755		
Ion Ratio	100	103.5	51.3
Lower		82.6	42.2
Upper		123.8	63.2



#14
2,4,6-Tribromophenol
Concen: 3.489 ng
RT: 15.705 min Scan# 1597
Delta R.T. -0.012 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion	330	332	141
Resp:	5638		
Ion Ratio	100	95.6	35.1
Lower		77.8	24.0
Upper		116.8	36.0





#15

2-Fluorobiphenyl

Concen: 3.337 ng

RT: 12.833 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

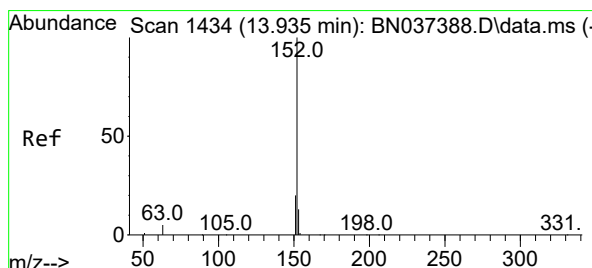
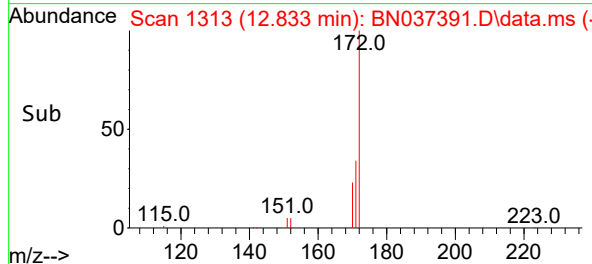
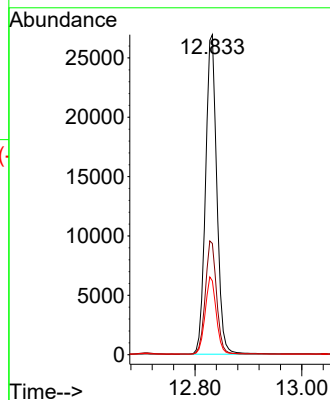
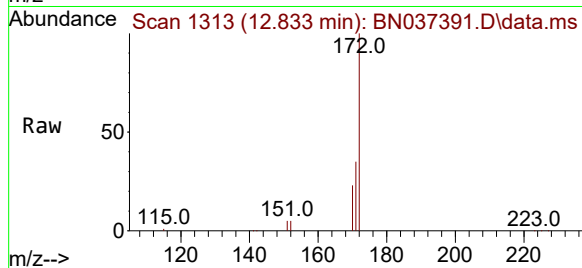
Tgt Ion:172 Resp: 39687

Ion Ratio Lower Upper

172 100

171 34.7 28.8 43.2

170 23.1 20.3 30.5



#16

Acenaphthylene

Concen: 3.359 ng

RT: 13.924 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

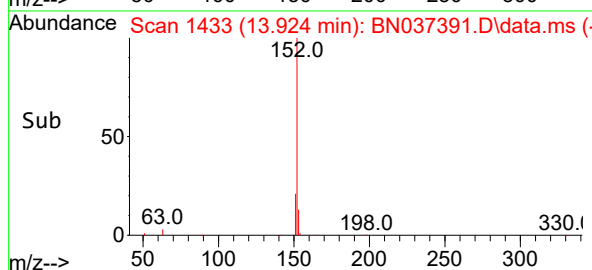
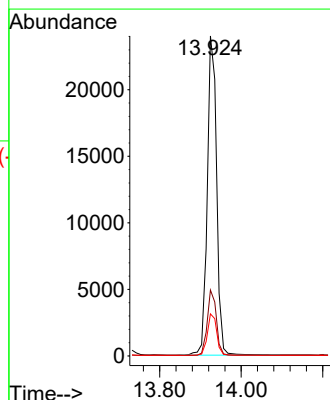
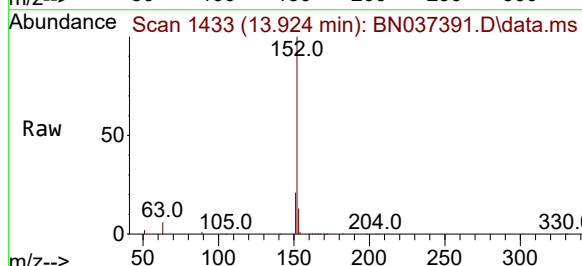
Tgt Ion:152 Resp: 38375

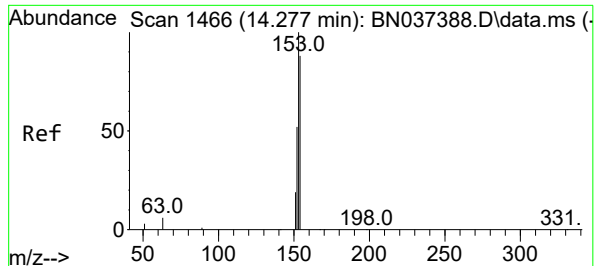
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.6

153 13.1 10.3 15.5

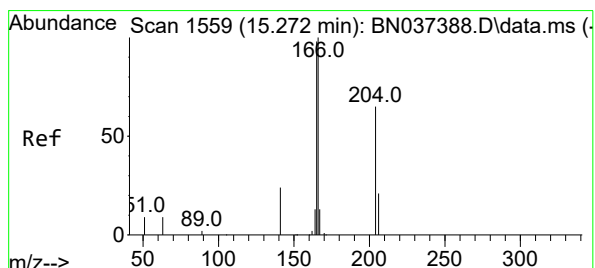
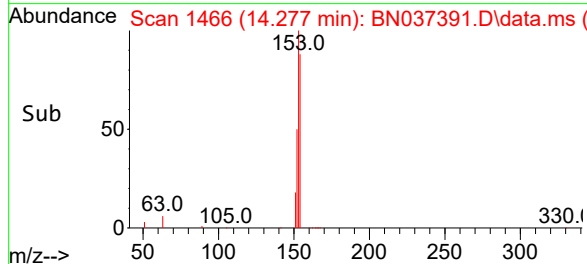
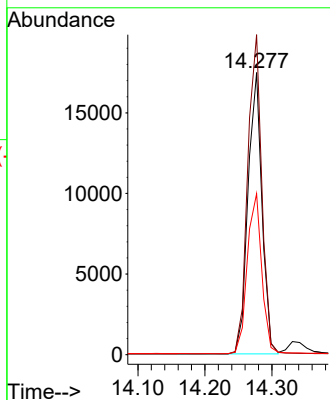
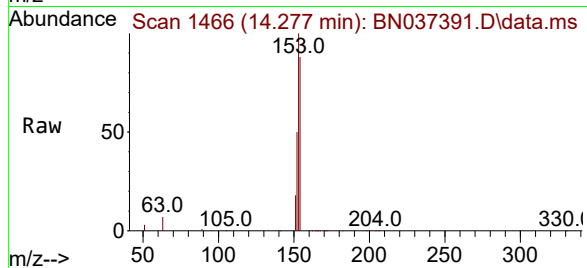




#17
Acenaphthene
Concen: 3.388 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

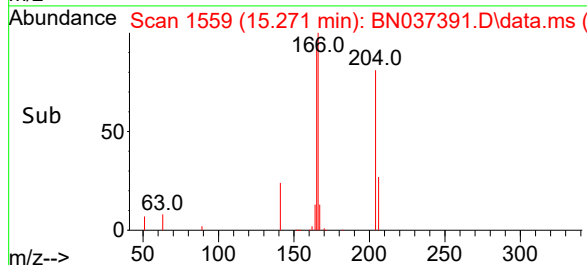
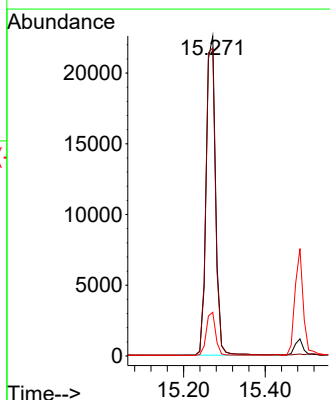
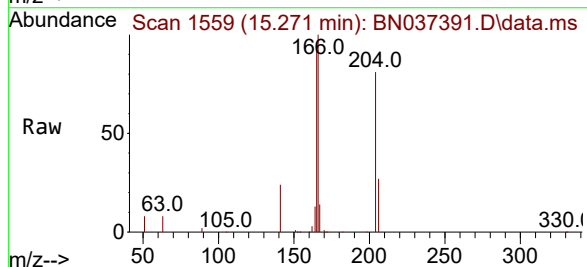
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

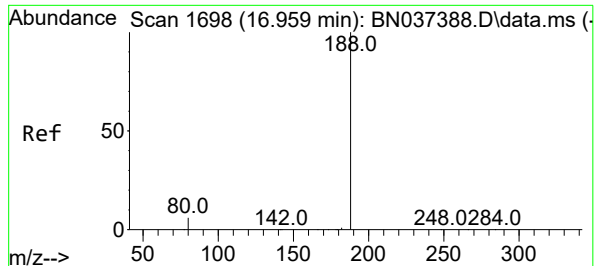
Tgt Ion:154 Resp: 25275
Ion Ratio Lower Upper
154 100
153 115.2 94.6 141.8
152 59.7 50.2 75.2



#18
Fluorene
Concen: 3.437 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:166 Resp: 36211
Ion Ratio Lower Upper
166 100
165 98.9 79.4 119.2
167 13.5 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

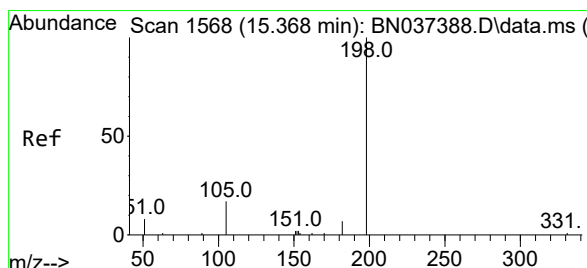
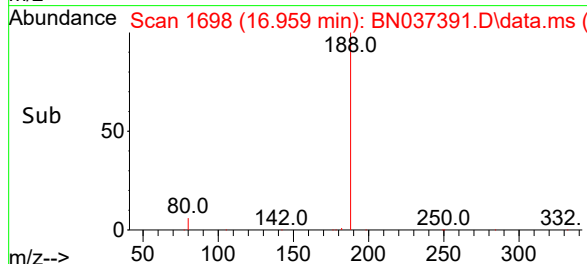
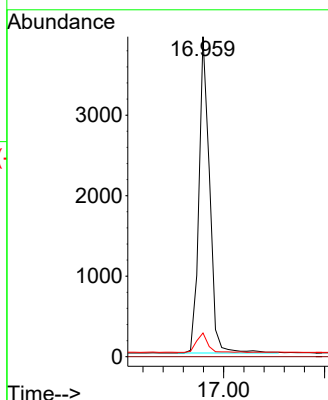
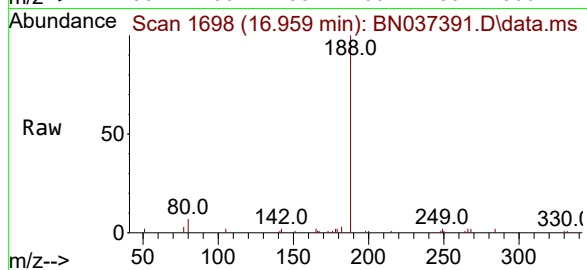
Tgt Ion:188 Resp: 5771

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.696 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

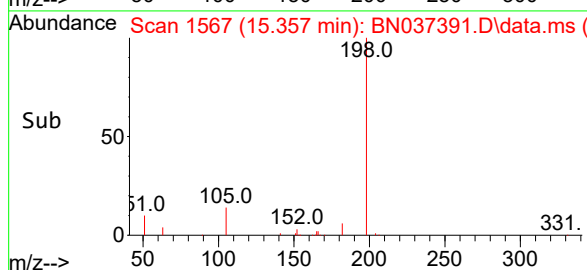
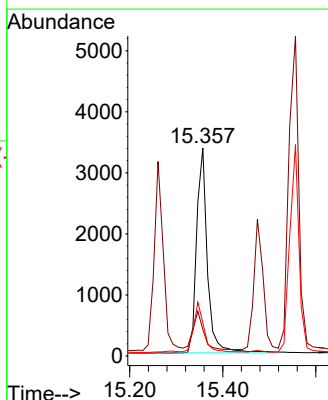
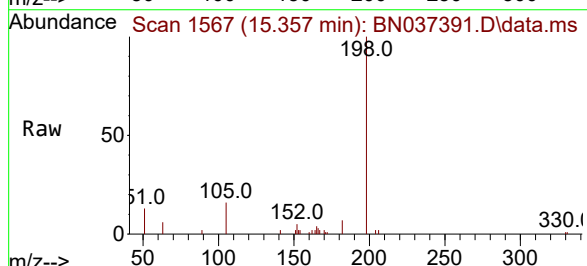
Tgt Ion:198 Resp: 5478

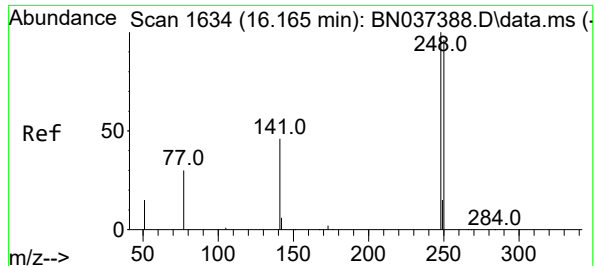
Ion Ratio Lower Upper

198 100

51 12.7 38.8 58.2#

105 15.9 29.8 44.6#

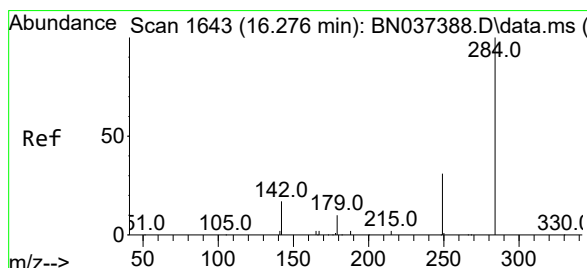
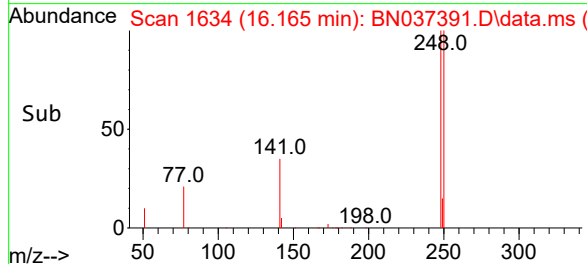
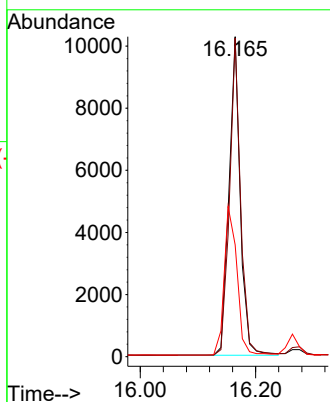
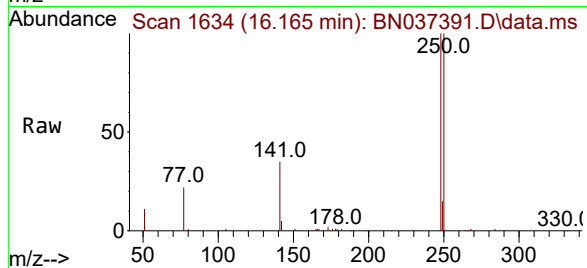




#21
4-Bromophenyl-phenylether
Concen: 3.427 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

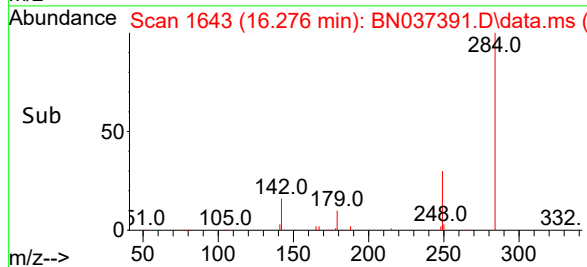
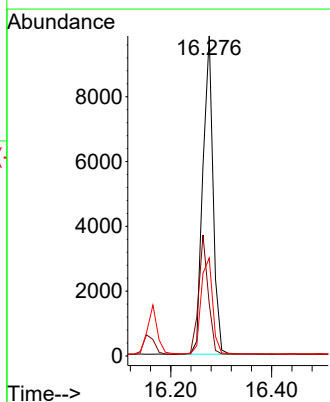
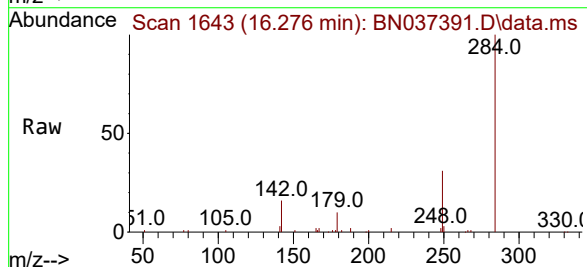
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

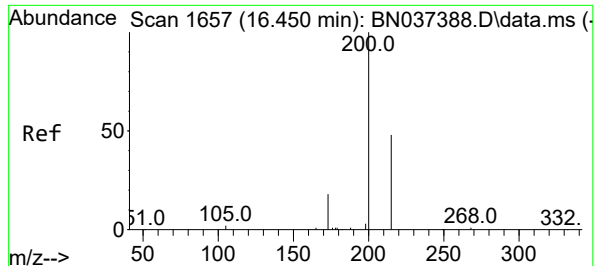
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.6	77.0	115.4
141	35.0	38.7	58.1#



#22
Hexachlorobenzene
Concen: 3.171 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.4	27.2	40.8
249	33.9	26.7	40.1





#23

Atrazine

Concen: 3.463 ng

RT: 16.438 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

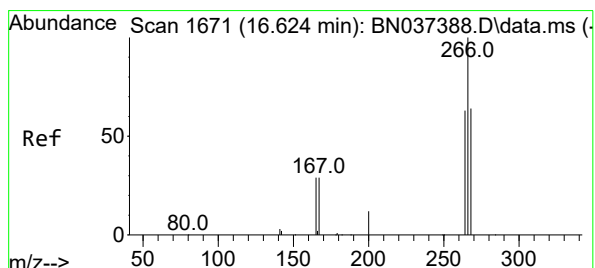
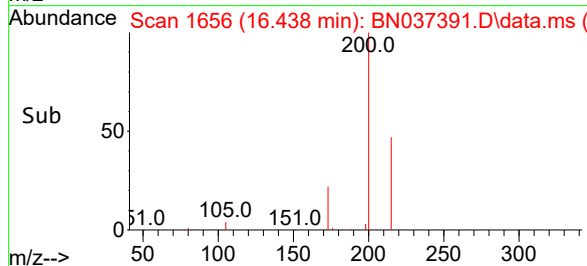
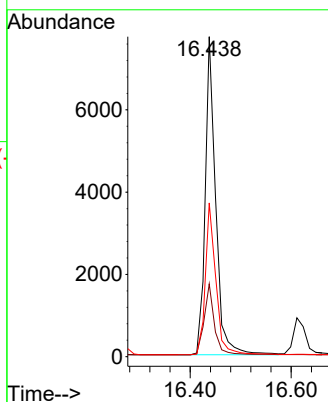
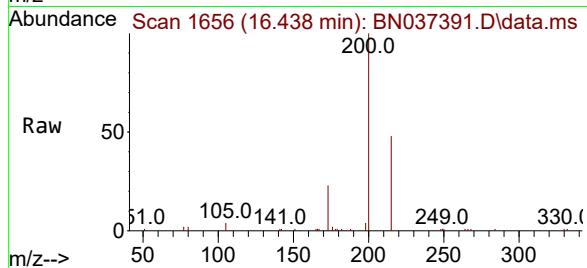
Tgt Ion:200 Resp: 11170

Ion Ratio Lower Upper

200 100

173 22.8 19.0 28.6

215 48.1 41.3 61.9



#24

Pentachlorophenol

Concen: 3.288 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

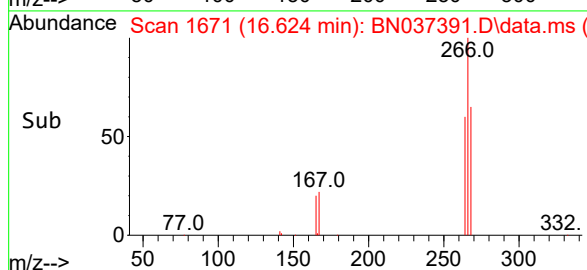
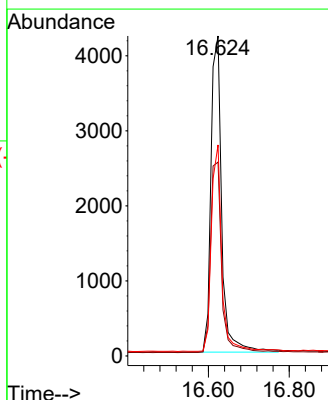
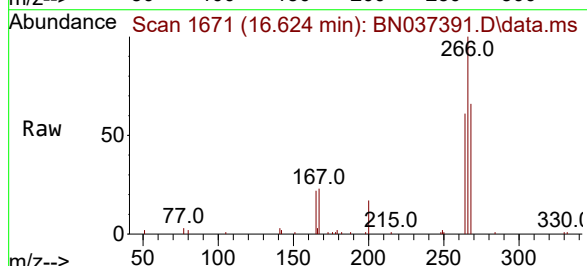
Tgt Ion:266 Resp: 7774

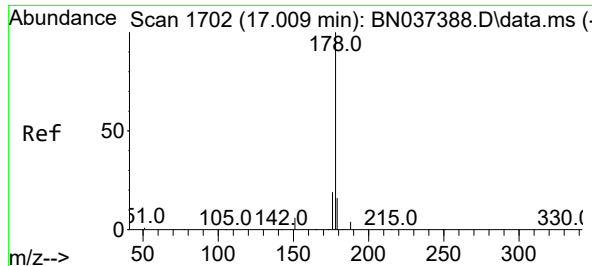
Ion Ratio Lower Upper

266 100

264 62.4 49.2 73.8

268 63.6 54.2 81.4

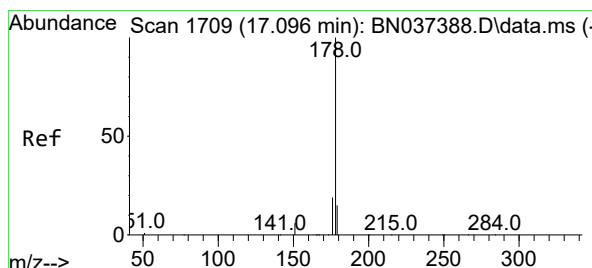
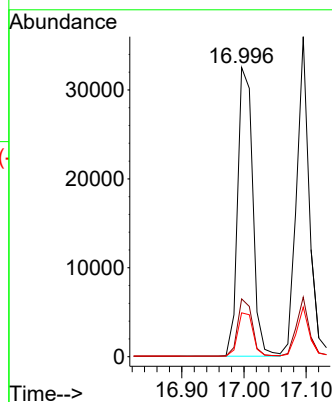
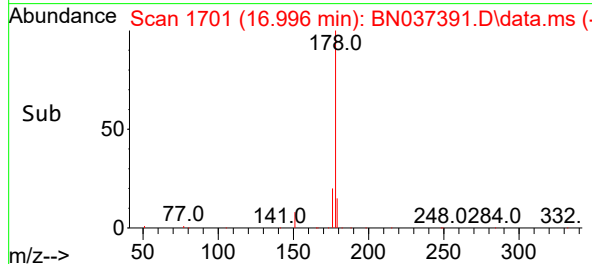
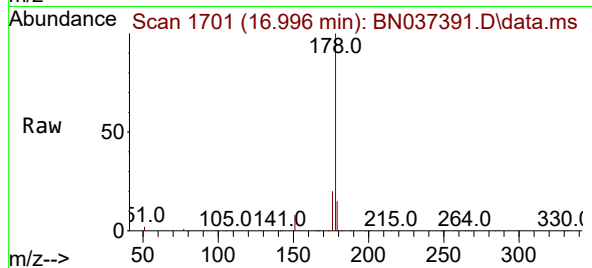




#25
Phenanthrene
Concen: 3.379 ng
RT: 16.996 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

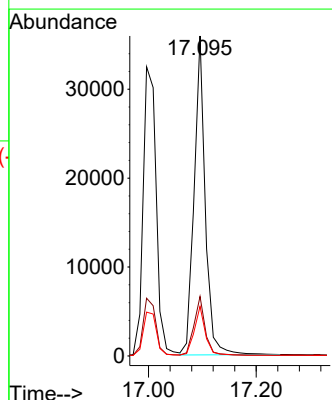
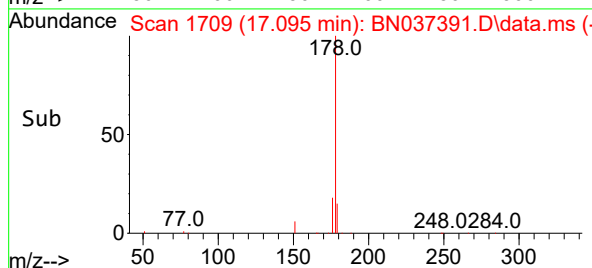
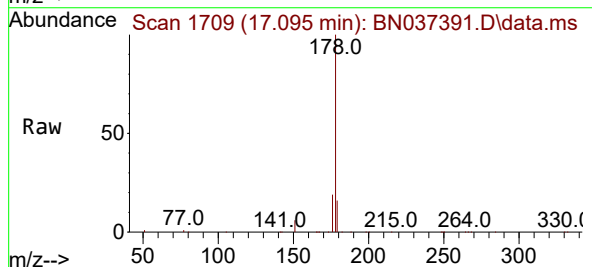
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

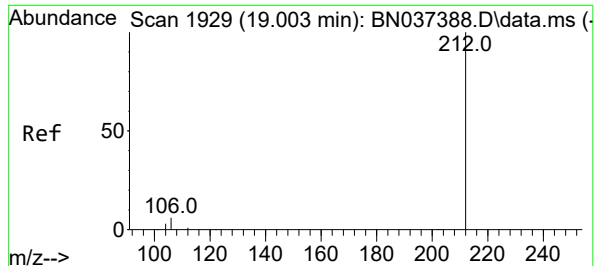
Tgt Ion:178 Resp: 54938
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.3 12.8 19.2



#26
Anthracene
Concen: 3.460 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:178 Resp: 51719
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.221 ng

RT: 18.998 min Scan# 1928

Delta R.T. -0.005 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

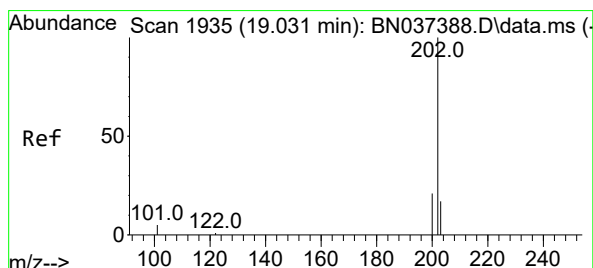
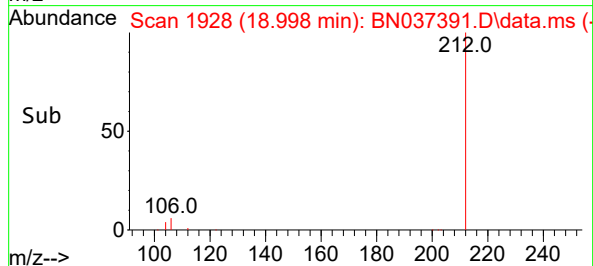
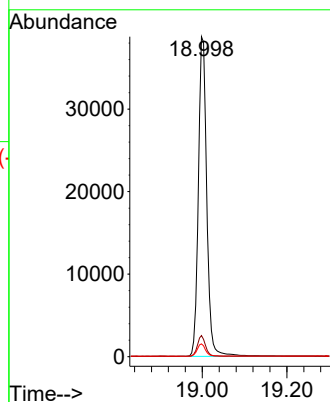
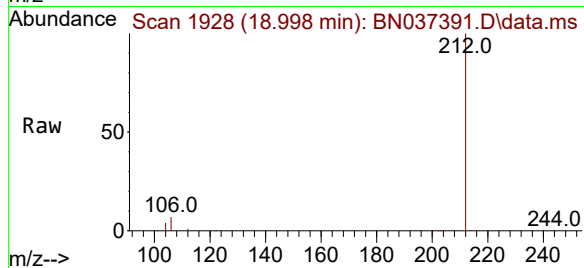
Tgt Ion:212 Resp: 53268

Ion Ratio Lower Upper

212 100

106 6.2 4.5 6.7

104 3.8 2.7 4.1



#28

Fluoranthene

Concen: 3.351 ng

RT: 19.031 min Scan# 1935

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

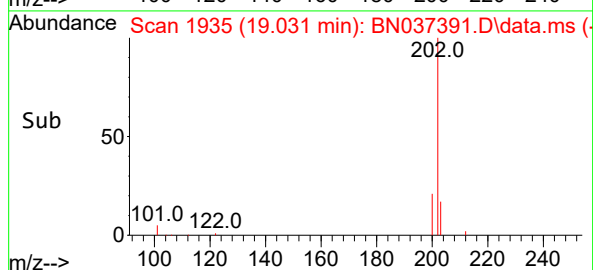
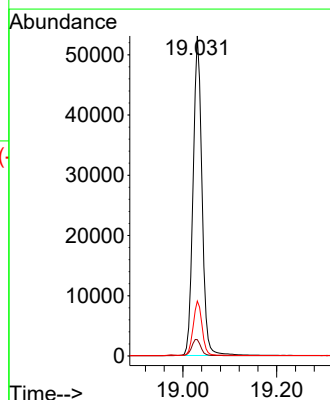
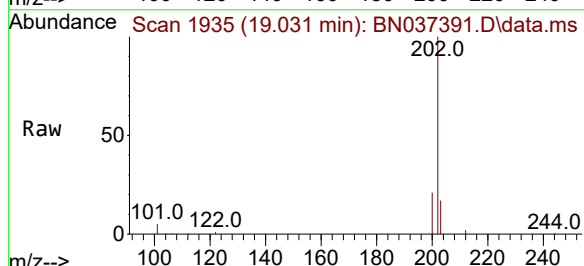
Tgt Ion:202 Resp: 69575

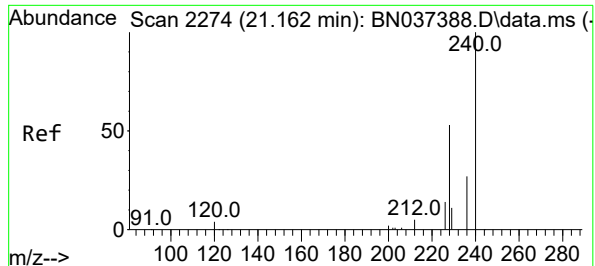
Ion Ratio Lower Upper

202 100

101 5.4 3.8 5.6

203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

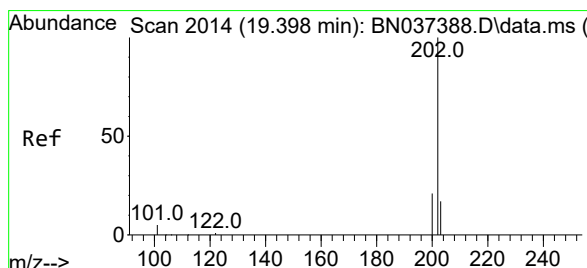
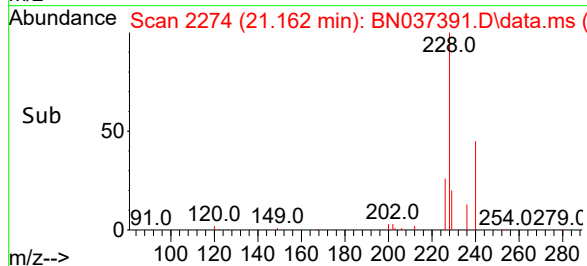
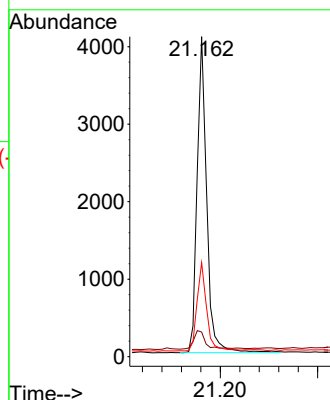
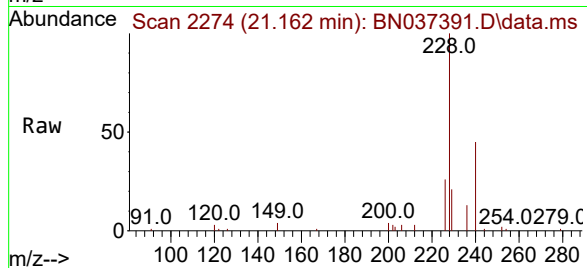
Tgt Ion:240 Resp: 5566

Ion Ratio Lower Upper

240 100

120 7.7 5.3 7.9

236 29.4 22.7 34.1



#30

Pyrene

Concen: 3.276 ng

RT: 19.393 min Scan# 2013

Delta R.T. -0.005 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

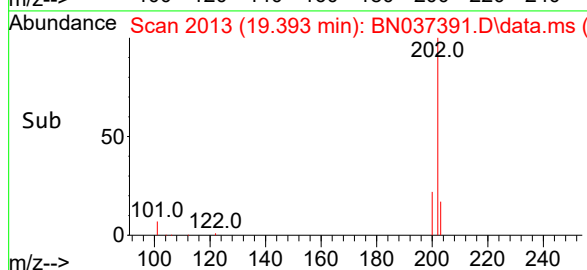
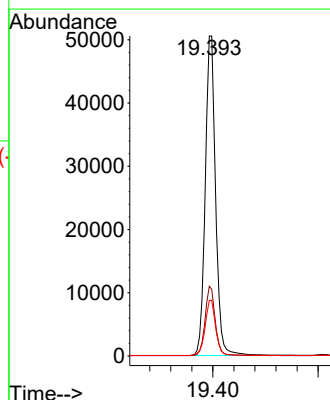
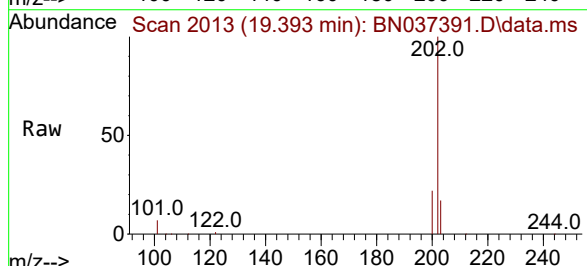
Tgt Ion:202 Resp: 69001

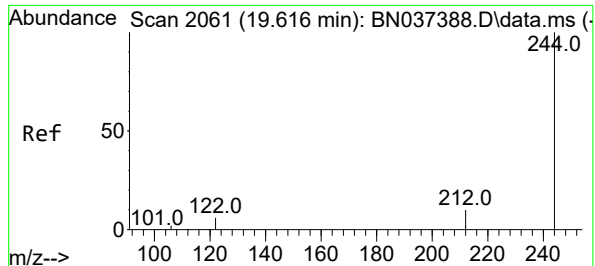
Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 17.8 14.2 21.2

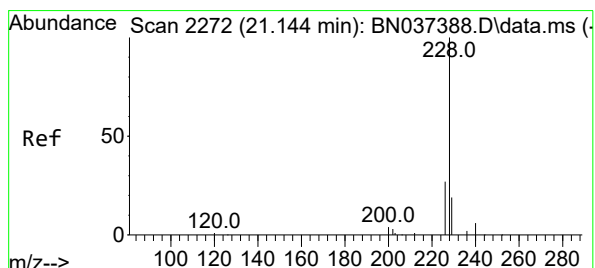
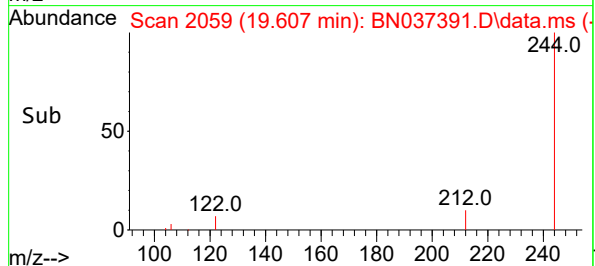
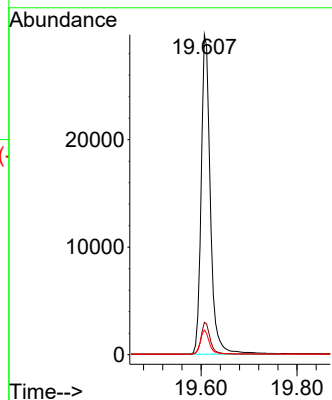
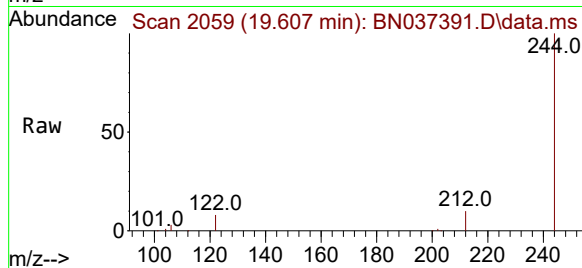




#31
Terphenyl-d14
Concen: 3.345 ng
RT: 19.607 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

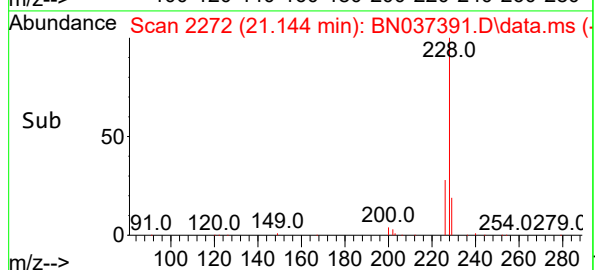
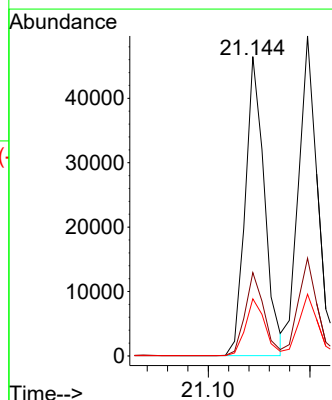
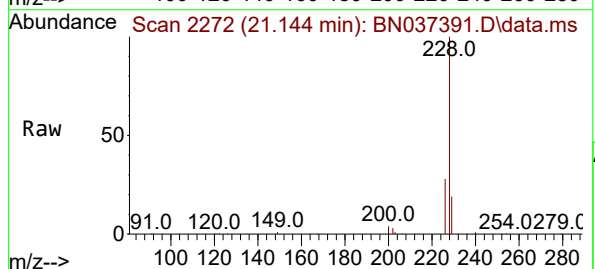
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

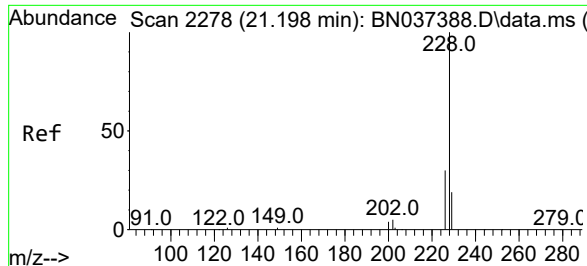
Tgt Ion:244 Resp: 39701
Ion Ratio Lower Upper
244 100
212 10.1 9.1 13.7
122 7.7 6.3 9.5



#32
Benzo(a)anthracene
Concen: 3.472 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:228 Resp: 60725
Ion Ratio Lower Upper
228 100
226 27.9 22.6 34.0
229 19.1 16.2 24.2





#33

Chrysene

Concen: 3.106 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

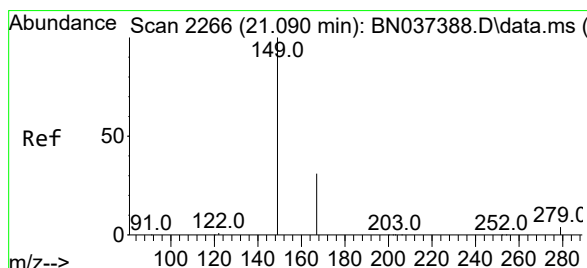
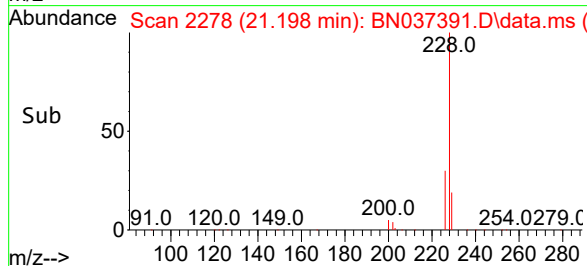
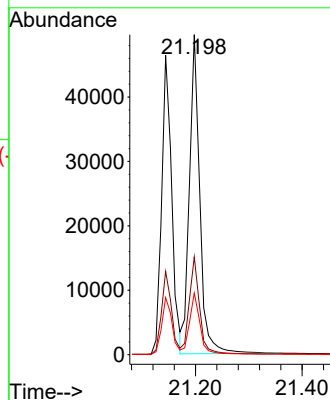
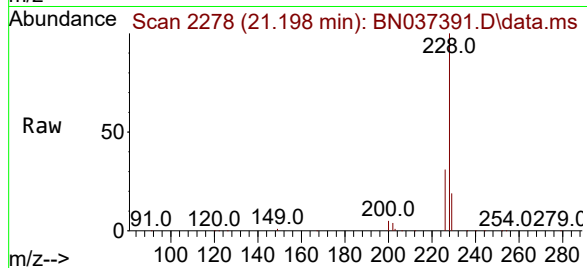
Tgt Ion:228 Resp: 67241

Ion Ratio Lower Upper

228 100

226 30.5 24.5 36.7

229 19.3 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.139 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

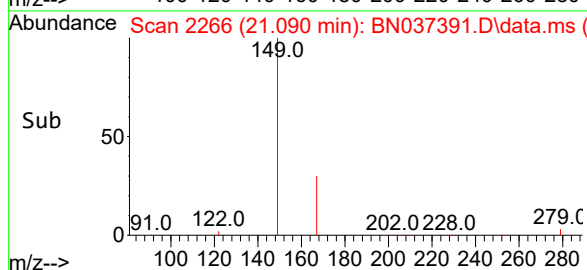
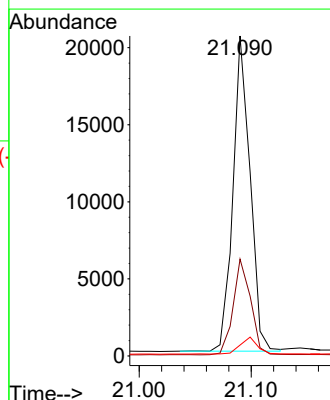
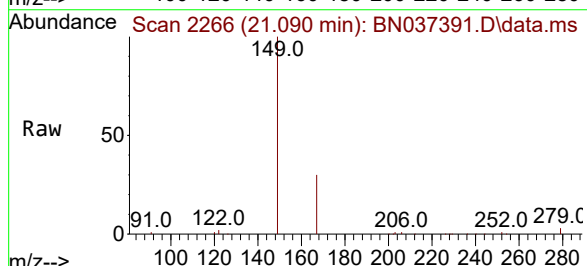
Tgt Ion:149 Resp: 21735

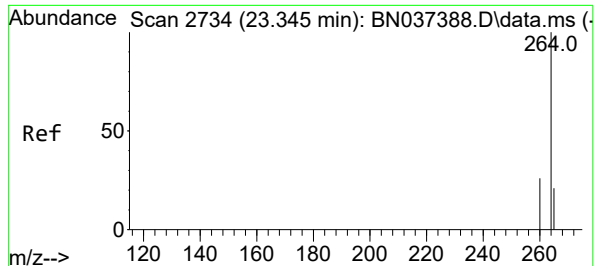
Ion Ratio Lower Upper

149 100

167 31.0 24.8 37.2

279 5.5 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.348 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037391.D

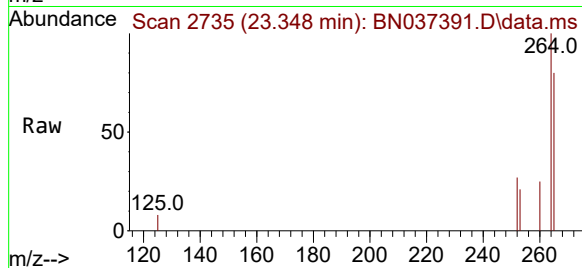
Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



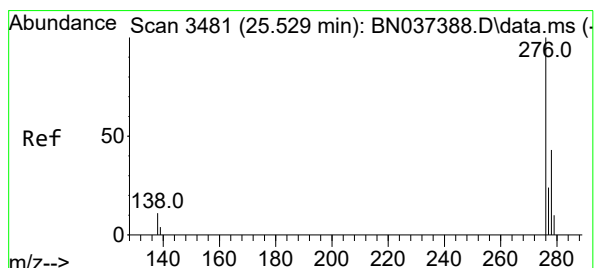
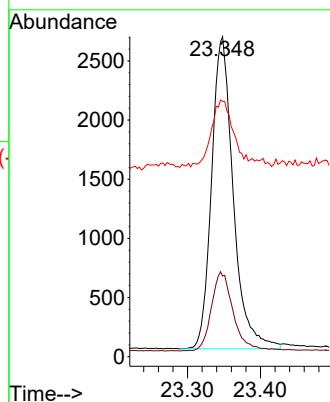
Tgt Ion:264 Resp: 5442

Ion Ratio Lower Upper

264 100

260 25.2 21.4 32.0

265 79.8 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.517 ng

RT: 25.526 min Scan# 3480

Delta R.T. -0.003 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

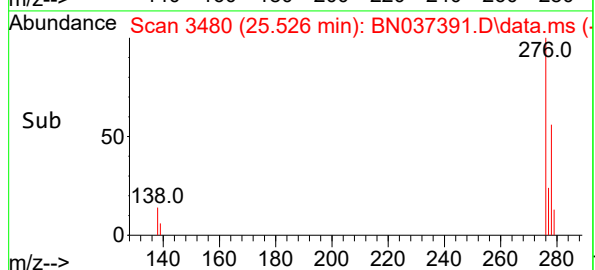
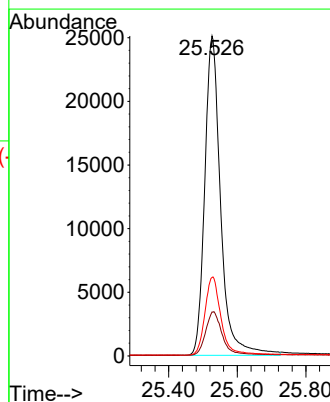
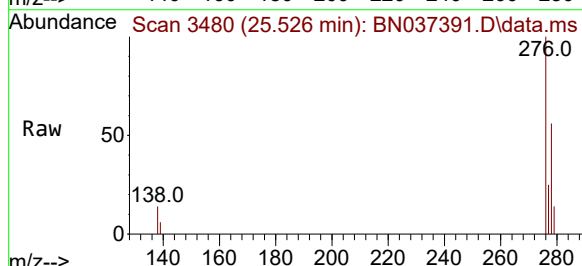
Tgt Ion:276 Resp: 80692

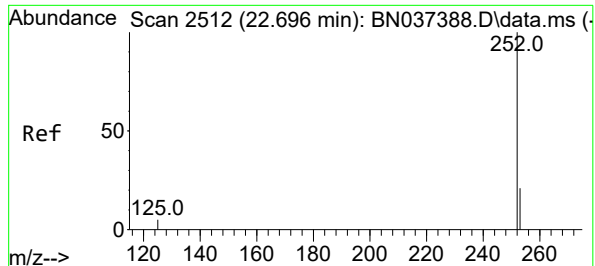
Ion Ratio Lower Upper

276 100

138 14.3 8.5 12.7#

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 3.412 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

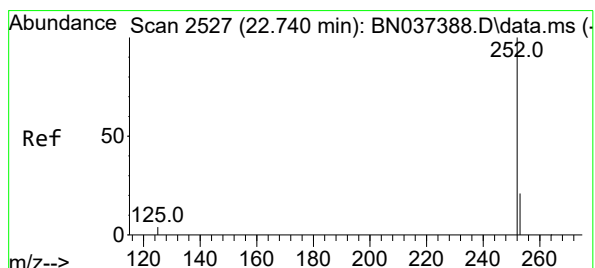
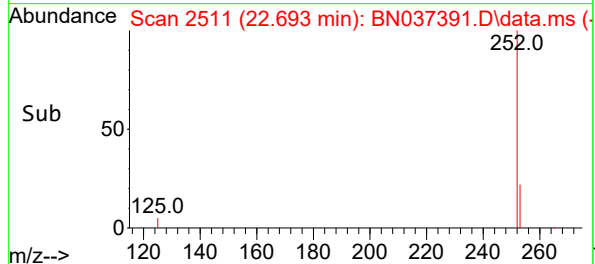
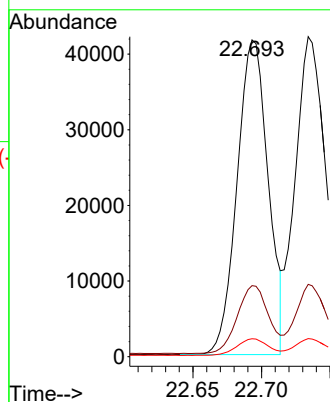
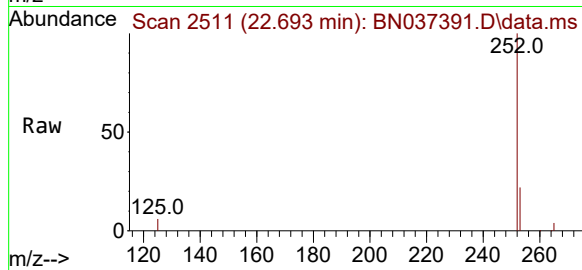
Tgt Ion:252 Resp: 65471

Ion Ratio Lower Upper

252 100

253 22.4 22.8 34.2#

125 5.6 6.2 9.4#



#38

Benzo(k)fluoranthene

Concen: 3.425 ng

RT: 22.734 min Scan# 2525

Delta R.T. -0.006 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

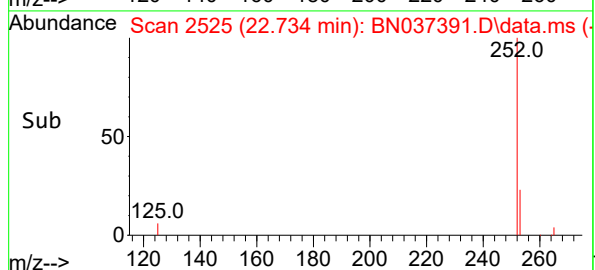
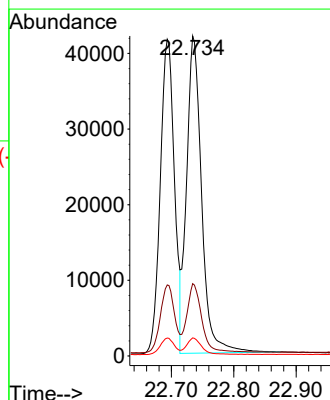
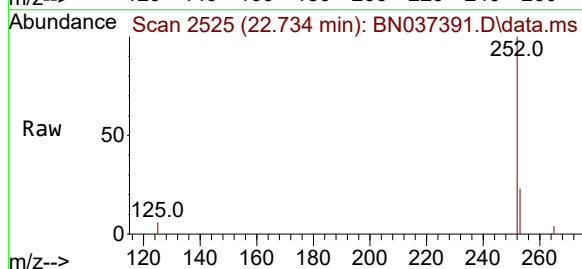
Tgt Ion:252 Resp: 70234

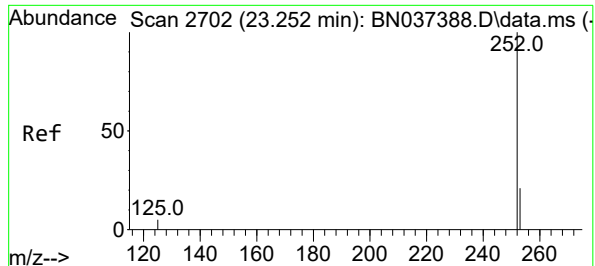
Ion Ratio Lower Upper

252 100

253 22.6 23.2 34.8#

125 5.6 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 3.422 ng

RT: 23.252 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

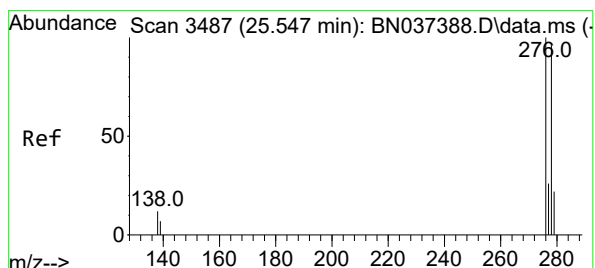
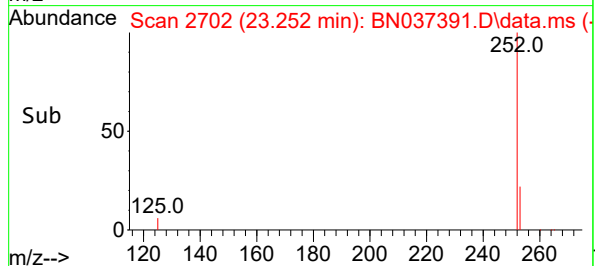
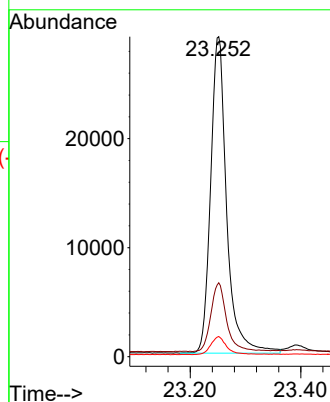
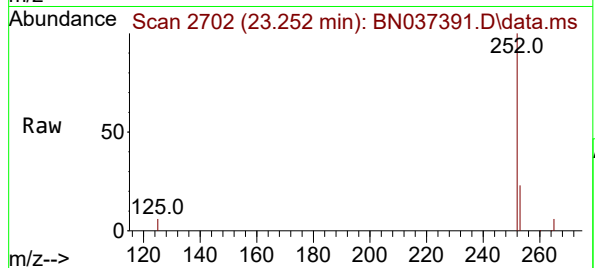
Tgt Ion:252 Resp: 58393

Ion Ratio Lower Upper

252 100

253 23.1 25.6 38.4#

125 6.3 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 3.668 ng

RT: 25.541 min Scan# 3485

Delta R.T. -0.006 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

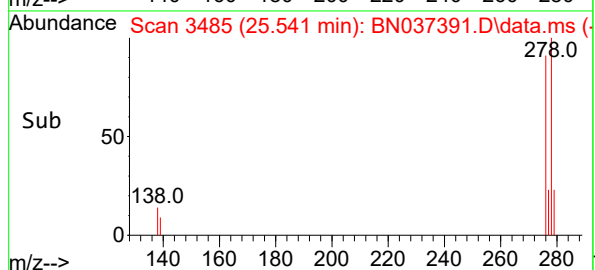
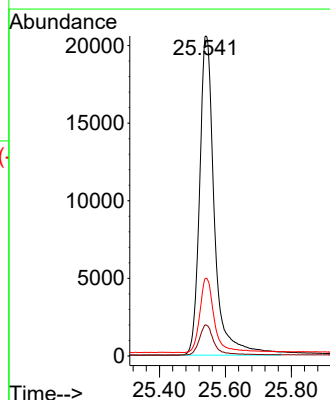
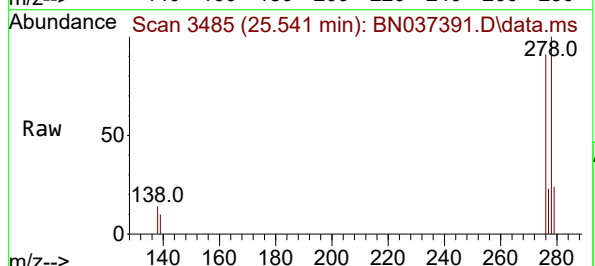
Tgt Ion:278 Resp: 64655

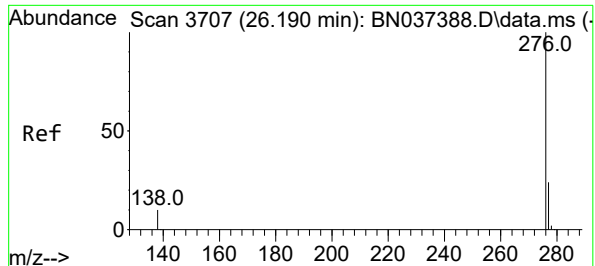
Ion Ratio Lower Upper

278 100

139 9.7 8.5 12.7

279 24.3 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 3.427 ng

RT: 26.187 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037391.D

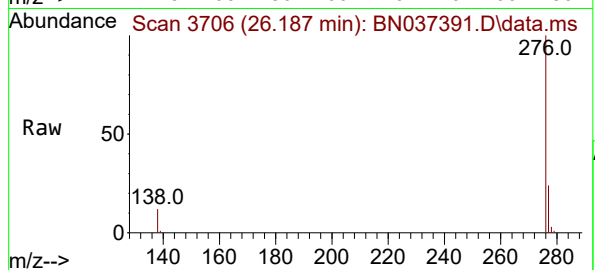
Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



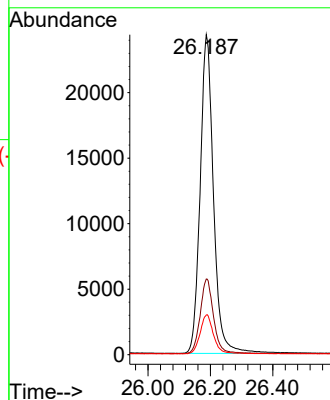
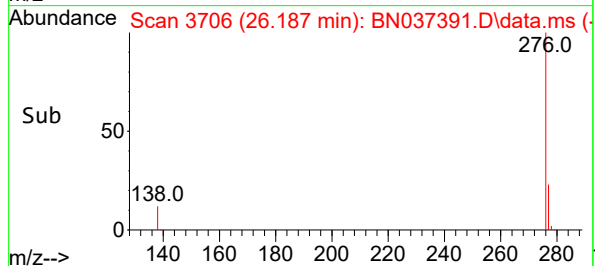
Tgt Ion:276 Resp: 72186

Ion Ratio Lower Upper

276 100

277 23.6 21.0 31.4

138 12.4 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037392.D
 Acq On : 26 Jun 2025 14:17
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jun 26 14:45:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

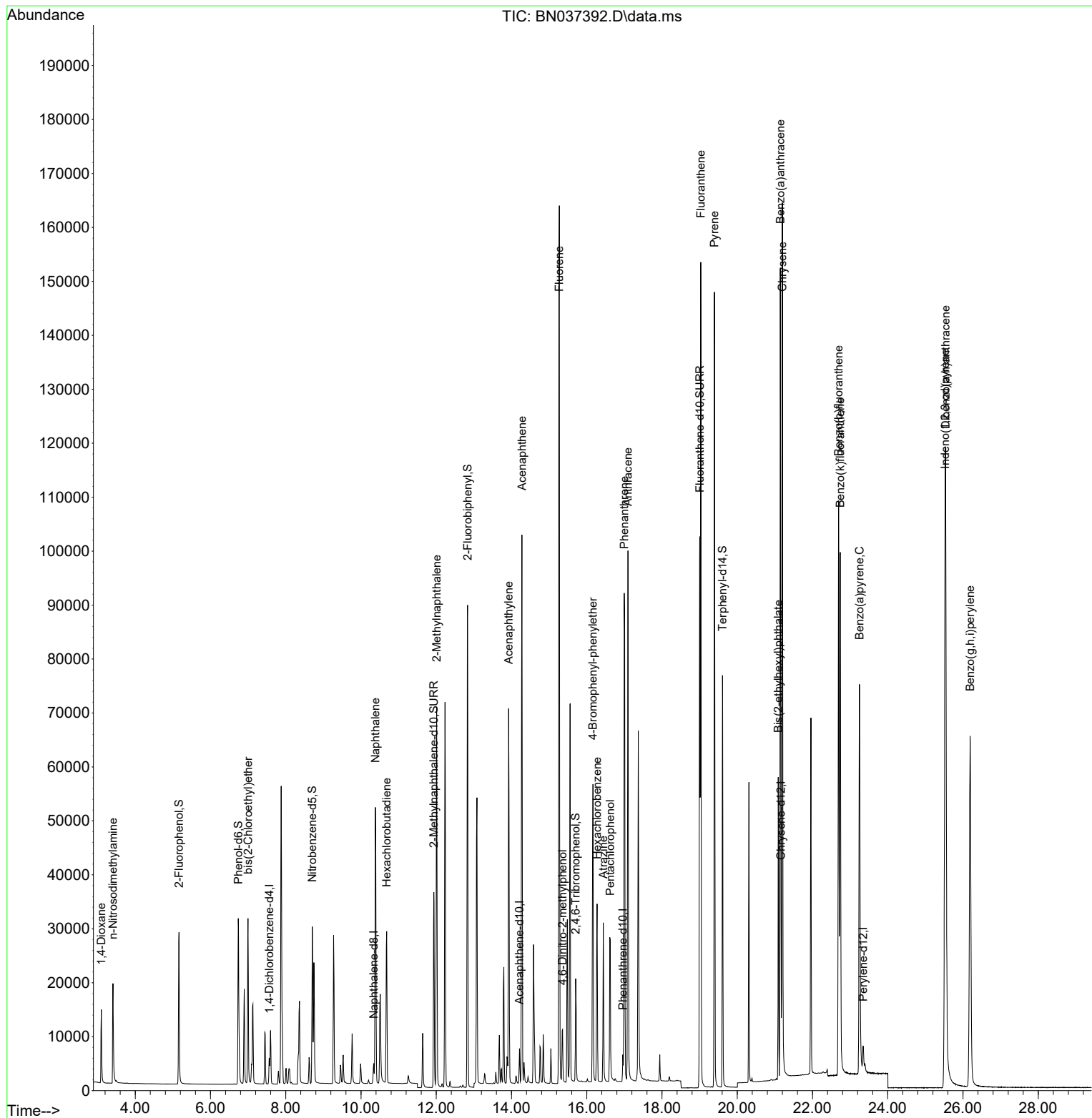
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	2311	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4753	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	3216	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	6554	0.400	ng	0.00
29) Chrysene-d12	21.162	240	6601	0.400	ng	0.00
35) Perylene-d12	23.345	264	6264	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	23643	5.308	ng	0.00
5) Phenol-d6	6.744	99	27480	5.950	ng	0.00
8) Nitrobenzene-d5	8.706	82	23095	6.041	ng	-0.01
11) 2-Methylnaphthalene-d10	11.935	152	47934	6.519	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	10881	5.768	ng	-0.01
15) 2-Fluorobiphenyl	12.833	172	76771	5.529	ng	0.00
27) Fluoranthene-d10	19.003	212	118571	6.313	ng	0.00
31) Terphenyl-d14	19.607	244	77795	5.527	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	9566	4.619	ng	95
3) n-Nitrosodimethylamine	3.408	42	10726	4.955	ng	# 90
6) bis(2-Chloroethyl)ether	6.997	93	22819	5.555	ng	96
9) Naphthalene	10.383	128	65119	5.322	ng	96
10) Hexachlorobutadiene	10.682	225	24052	4.952	ng	# 99
12) 2-Methylnaphthalene	12.011	142	47716	5.664	ng	96
16) Acenaphthylene	13.924	152	74682	5.600	ng	99
17) Acenaphthene	14.277	154	48364	5.553	ng	96
18) Fluorene	15.271	166	68578	5.576	ng	99
20) 4,6-Dinitro-2-methylph...	15.357	198	10525	6.252	ng	# 54
21) 4-Bromophenyl-phenylether	16.164	248	25866	5.594	ng	# 93
22) Hexachlorobenzene	16.276	284	25453	5.120	ng	98
23) Atrazine	16.437	200	21783	5.947	ng	95
24) Pentachlorophenol	16.624	266	14964	5.574	ng	96
25) Phenanthrene	16.996	178	105409	5.708	ng	99
26) Anthracene	17.095	178	100113	5.897	ng	100
28) Fluoranthene	19.031	202	133030	5.641	ng	# 99
30) Pyrene	19.393	202	132986	5.324	ng	99
32) Benzo(a)anthracene	21.144	228	119334	5.754	ng	99
33) Chrysene	21.197	228	127936	4.982	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	44321	5.397	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.523	276	154039	5.833	ng	# 96
37) Benzo(b)fluoranthene	22.693	252	127810	5.787	ng	# 90
38) Benzo(k)fluoranthene	22.737	252	132887	5.630	ng	# 89
39) Benzo(a)pyrene	23.248	252	111691	5.686	ng	# 85
40) Dibenzo(a,h)anthracene	25.538	278	122232	6.025	ng	# 86
41) Benzo(g,h,i)perylene	26.190	276	135052	5.570	ng	95

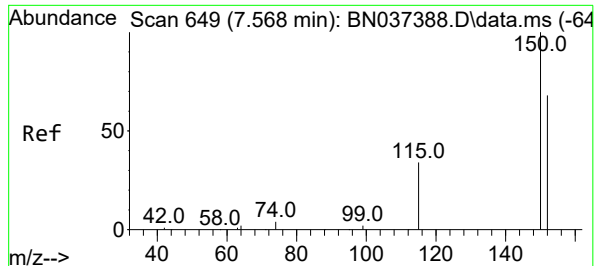
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037392.D
Acq On : 26 Jun 2025 14:17
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 26 14:45:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

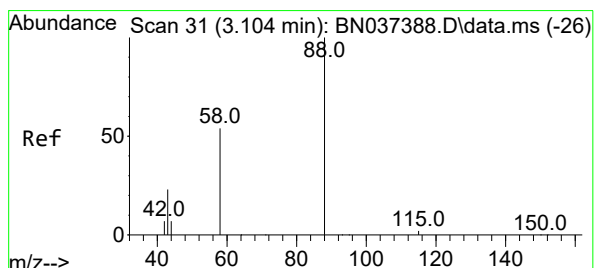
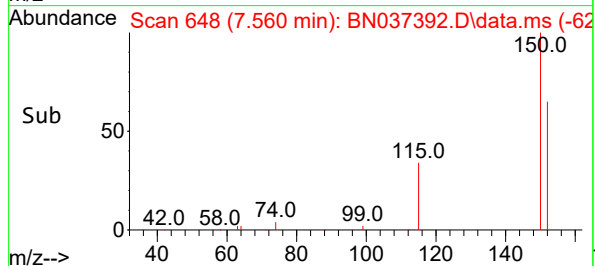
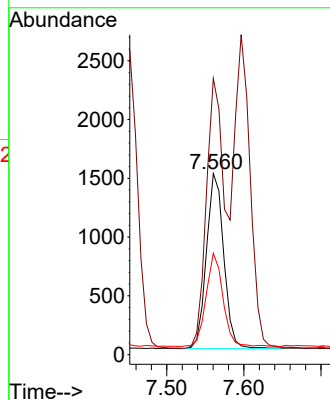
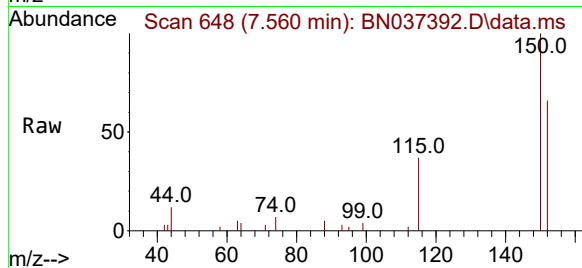




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

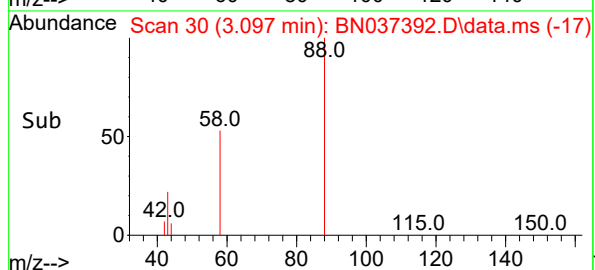
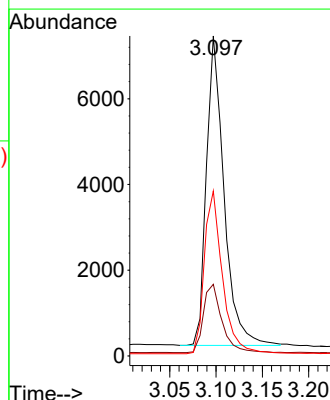
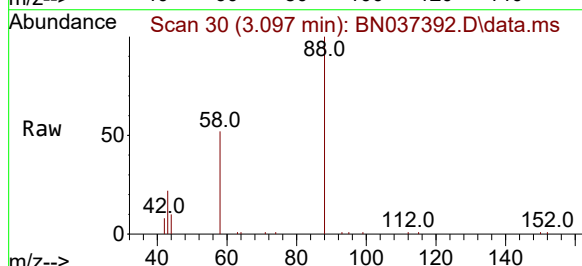
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

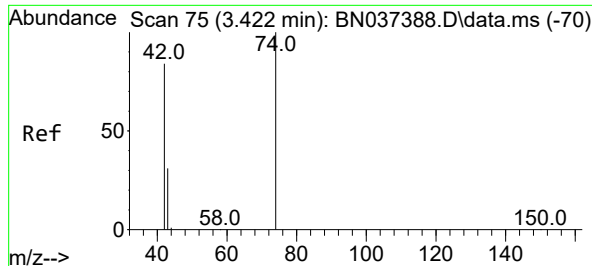
Tgt Ion:152 Resp: 2311
Ion Ratio Lower Upper
152 100
150 152.5 116.2 174.2
115 56.0 42.9 64.3



#2
1,4-Dioxane
Concen: 4.619 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 88 Resp: 9566
Ion Ratio Lower Upper
88 100
43 23.1 21.6 32.4
58 54.1 45.9 68.9

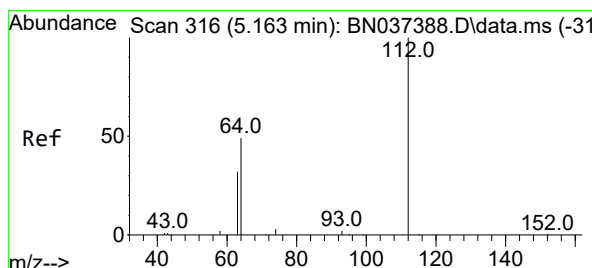
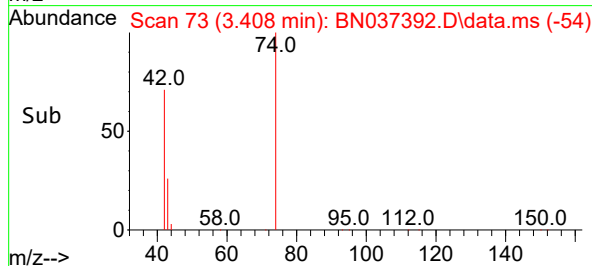
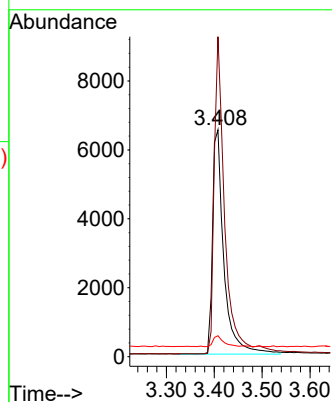
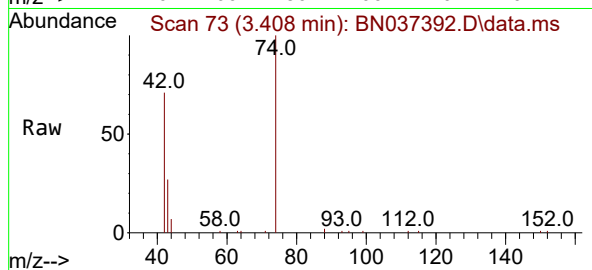




#3
n-Nitrosodimethylamine
Concen: 4.955 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

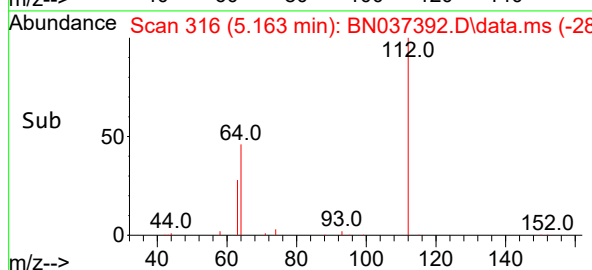
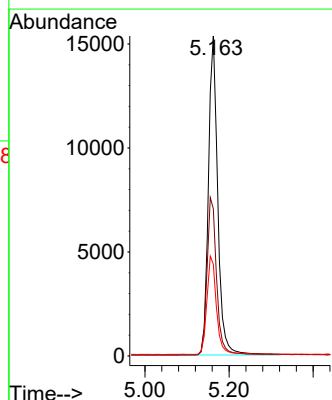
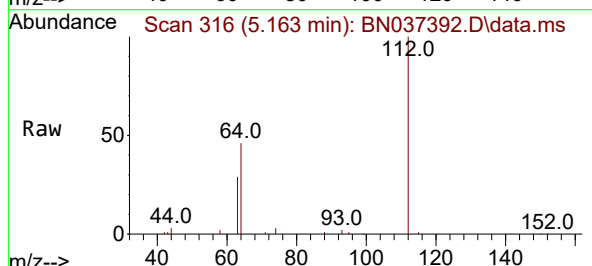
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

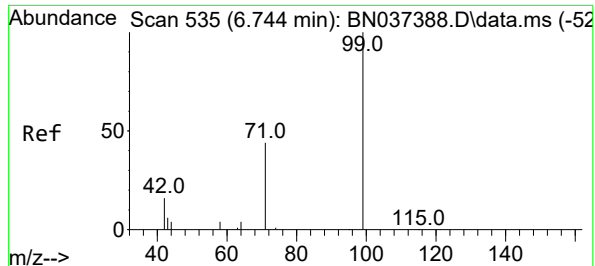
Tgt Ion: 42 Resp: 10726
Ion Ratio Lower Upper
42 100
74 133.1 97.8 146.8
44 4.5 8.7 13.1#



#4
2-Fluorophenol
Concen: 5.308 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 112 Resp: 23643
Ion Ratio Lower Upper
112 100
64 50.8 40.3 60.5
63 31.8 26.1 39.1

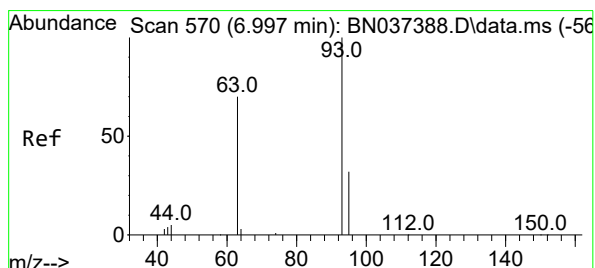
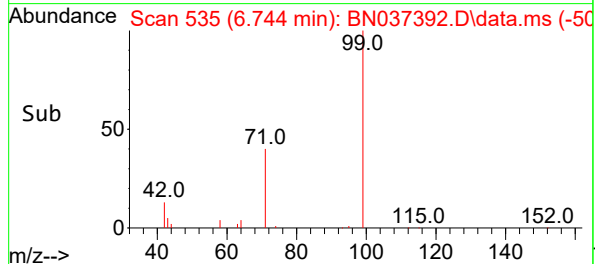
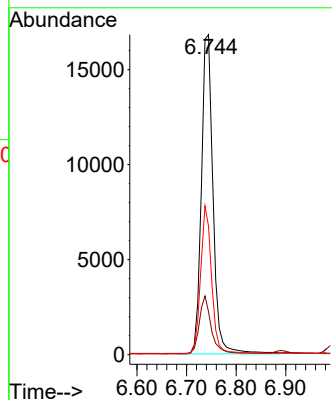
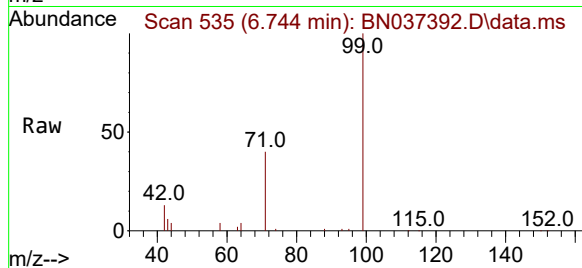




#5
Phenol-d6
Concen: 5.950 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

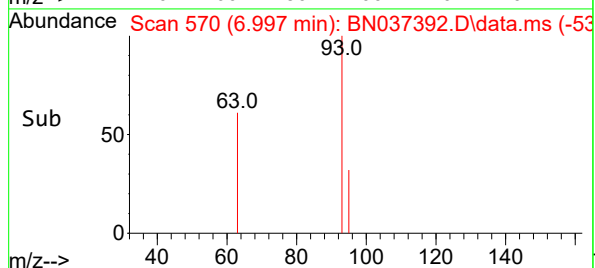
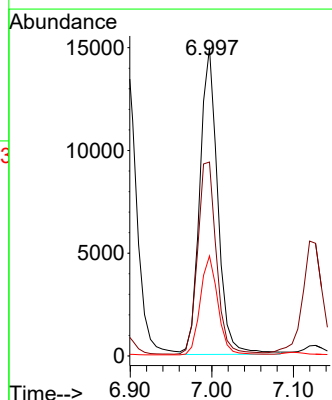
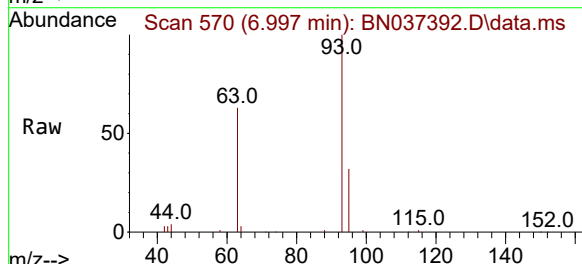
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

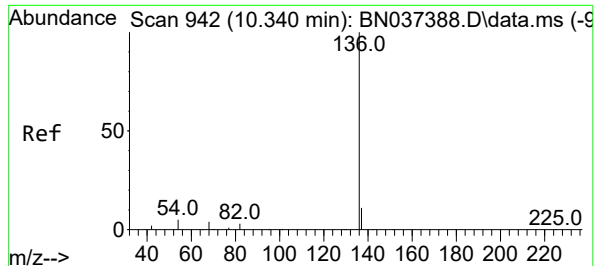
Tgt Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.6	23.4
71	44.1	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 5.555 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion	Ratio	Lower	Upper
93	100		
63	65.3	49.6	74.4
95	31.7	23.9	35.9

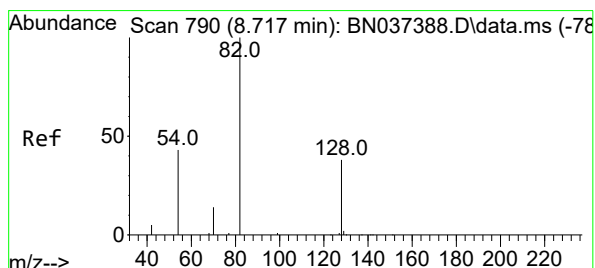
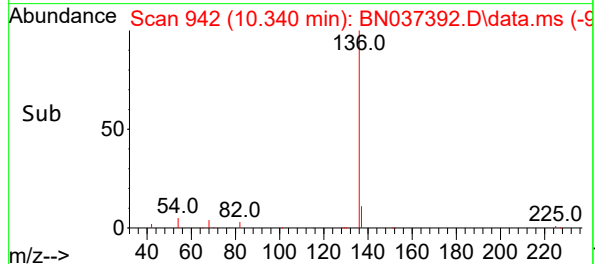
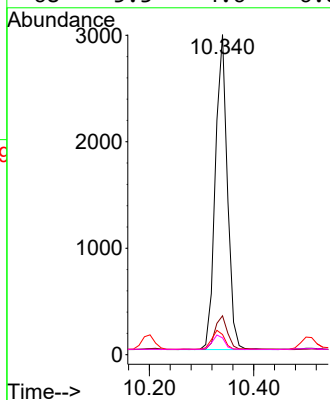
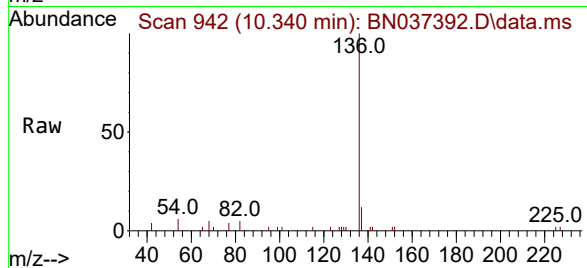




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

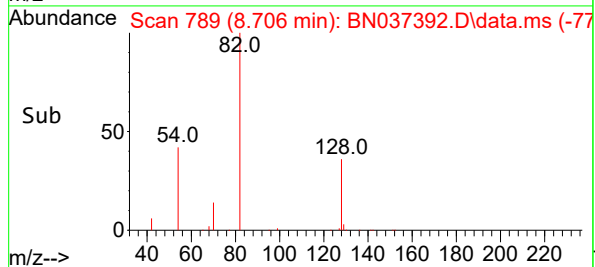
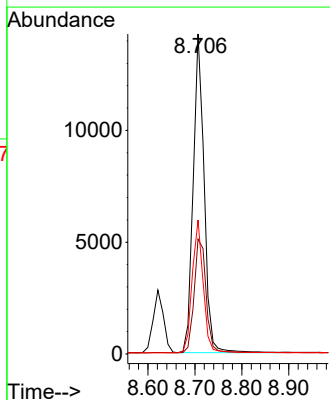
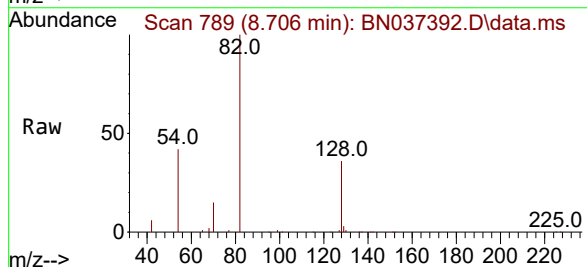
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

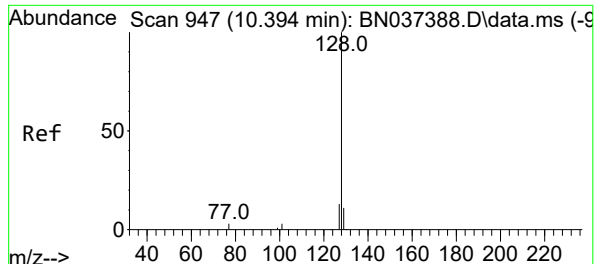
Tgt Ion:136	Resp:	4753
Ion	Ratio	Lower Upper
136	100	
137	12.1	10.4 15.6
54	6.3	5.6 8.4
68	5.3	4.6 6.8



#8
Nitrobenzene-d5
Concen: 6.041 ng
RT: 8.706 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 82	Resp:	23095
Ion	Ratio	Lower Upper
82	100	
128	35.9	34.0 51.0
54	41.9	37.7 56.5

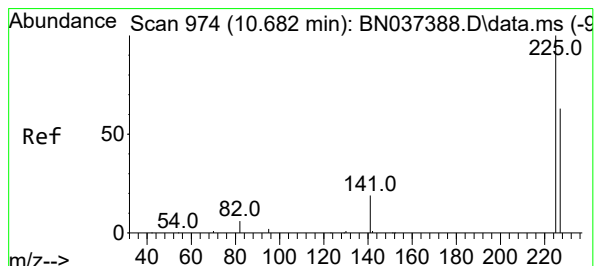
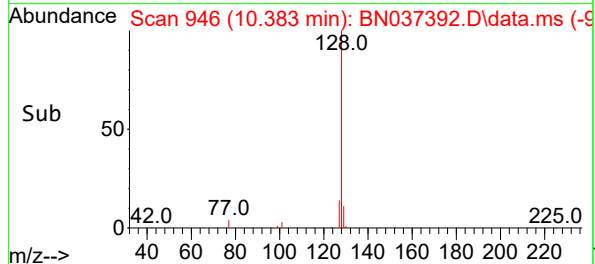
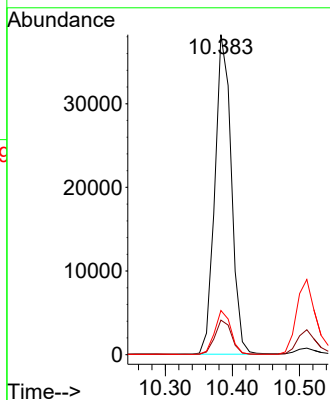
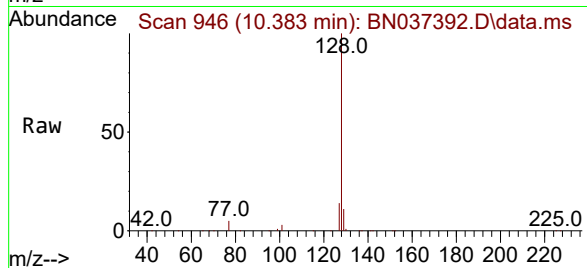




#9
Naphthalene
Concen: 5.322 ng
RT: 10.383 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

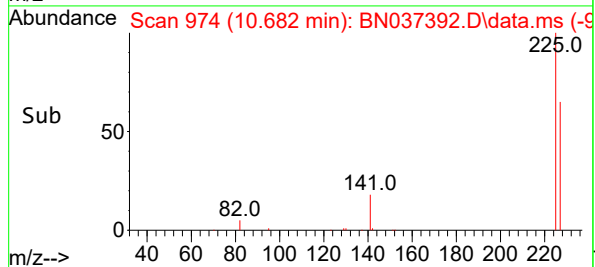
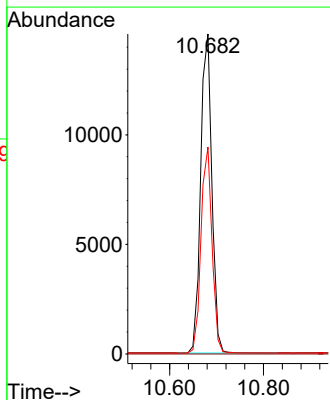
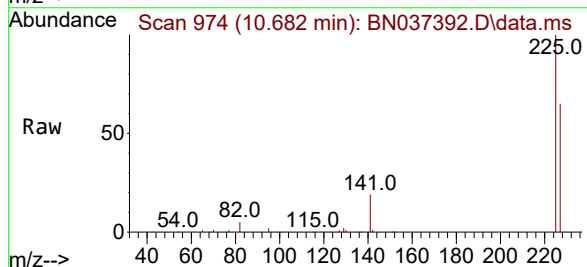
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

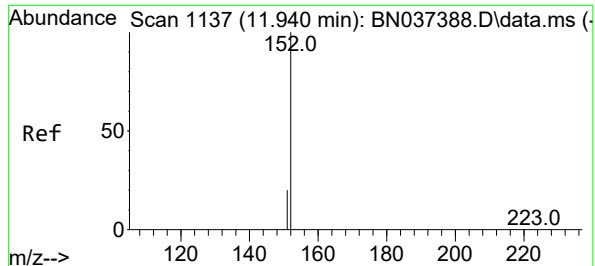
Tgt Ion:128 Resp: 65119
Ion Ratio Lower Upper
128 100
129 10.8 10.4 15.6
127 13.8 12.2 18.4



#10
Hexachlorobutadiene
Concen: 4.952 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:225 Resp: 24052
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 49.9 74.9





#11

2-Methylnaphthalene-d10

Concen: 6.519 ng

RT: 11.935 min Scan# 1136

Delta R.T. -0.005 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

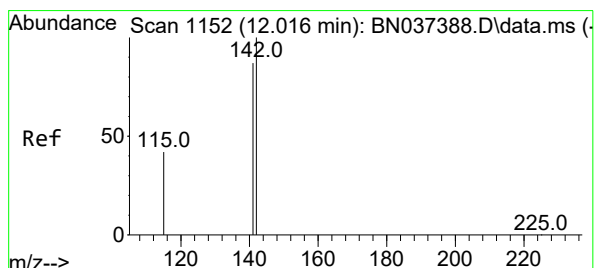
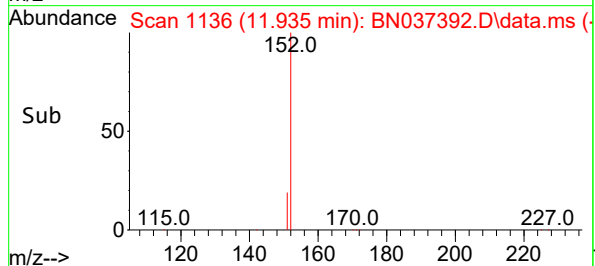
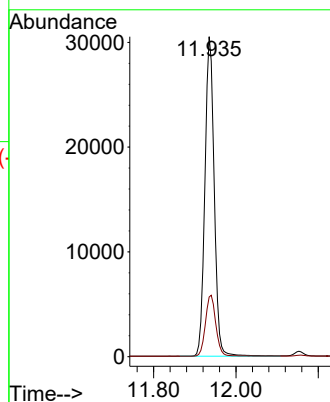
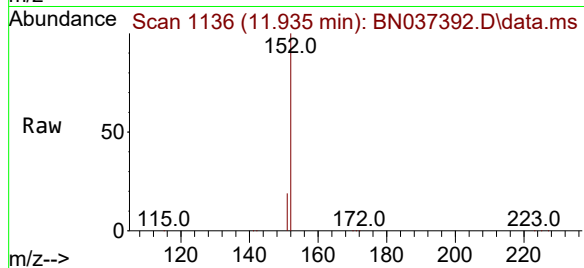
SSTDICC5.0

Tgt Ion:152 Resp: 47934

Ion Ratio Lower Upper

152 100

151 21.4 18.4 27.6



#12

2-Methylnaphthalene

Concen: 5.664 ng

RT: 12.011 min Scan# 1151

Delta R.T. -0.005 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

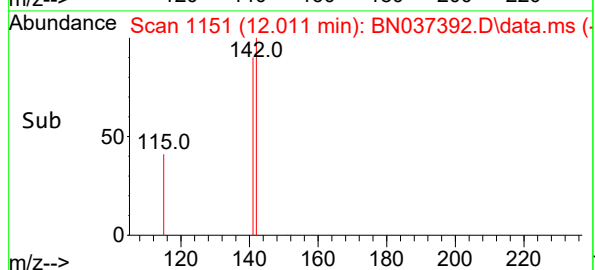
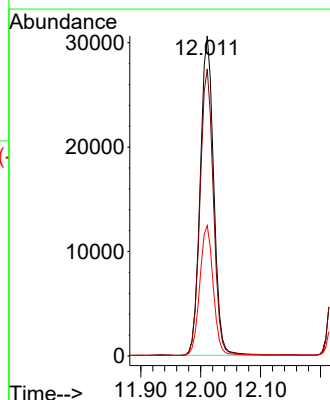
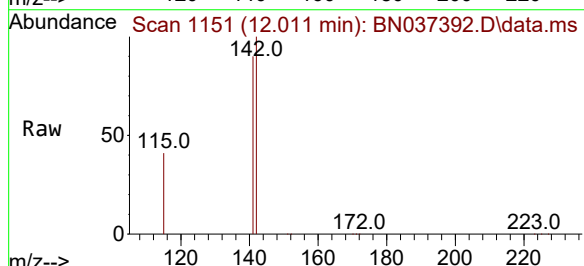
Tgt Ion:142 Resp: 47716

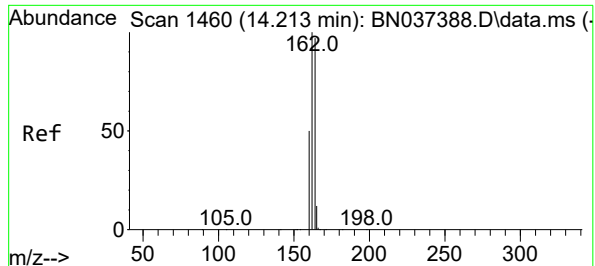
Ion Ratio Lower Upper

142 100

141 89.7 70.1 105.1

115 40.7 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

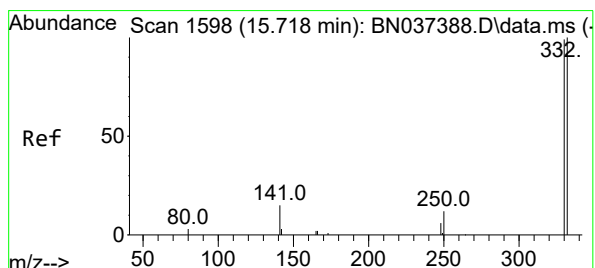
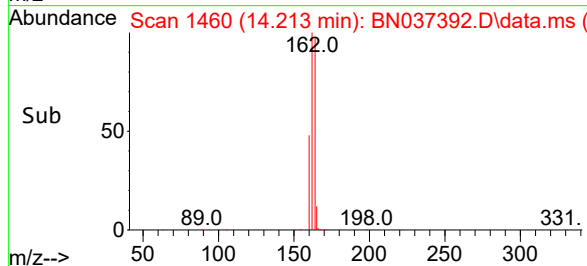
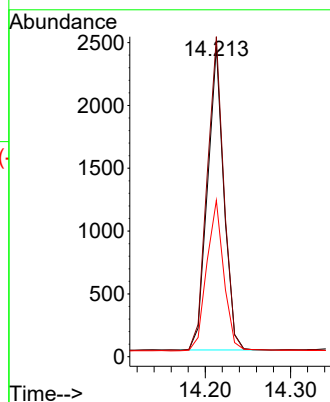
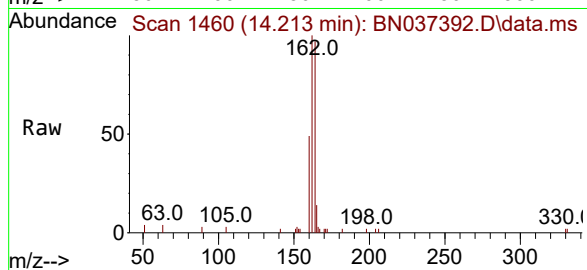
Tgt Ion:164 Resp: 3216

Ion Ratio Lower Upper

164 100

162 103.1 82.6 123.8

160 50.4 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 5.768 ng

RT: 15.705 min Scan# 1597

Delta R.T. -0.013 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

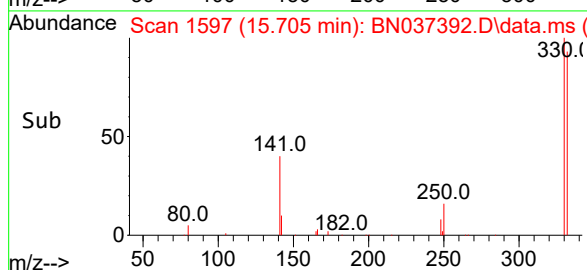
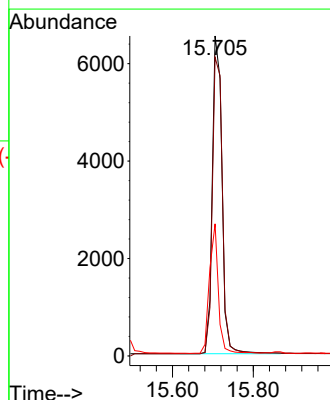
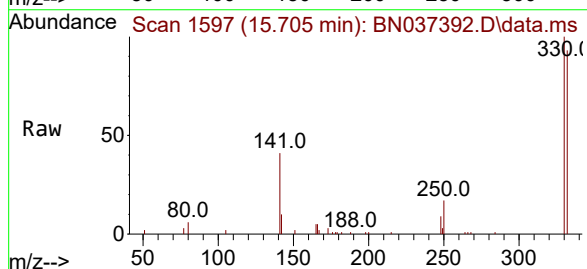
Tgt Ion:330 Resp: 10881

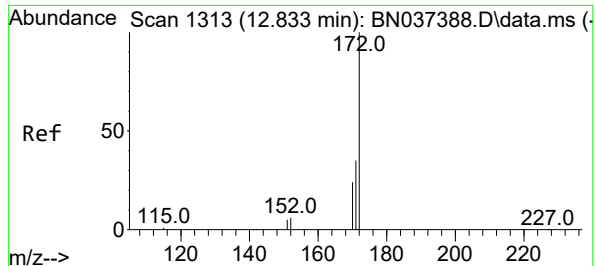
Ion Ratio Lower Upper

330 100

332 96.8 77.8 116.8

141 37.2 24.0 36.0#

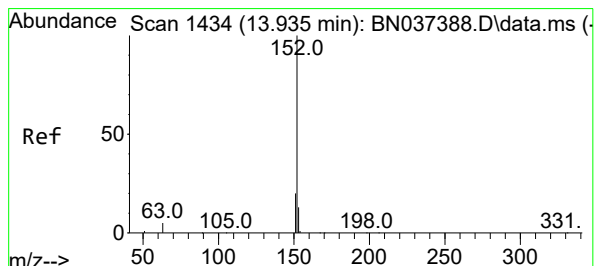
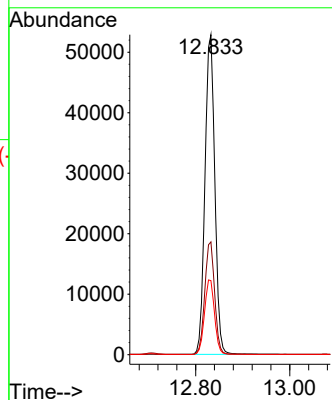
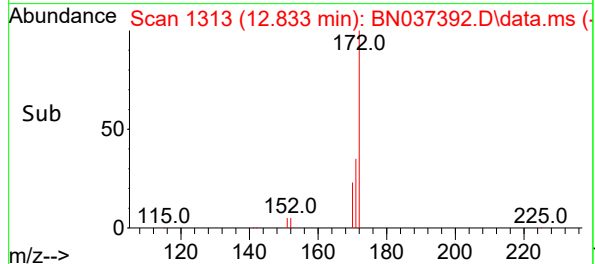
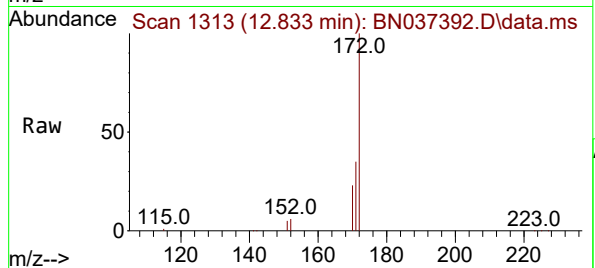




#15
2-Fluorobiphenyl
Concen: 5.529 ng
RT: 12.833 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

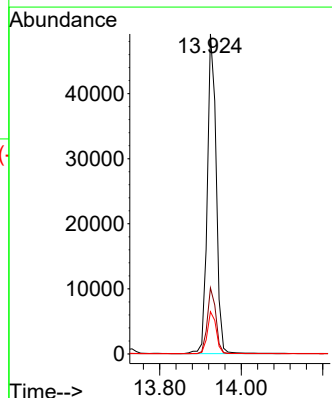
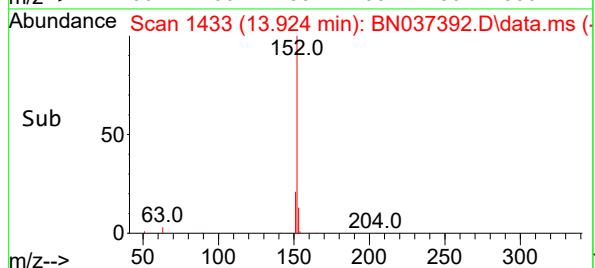
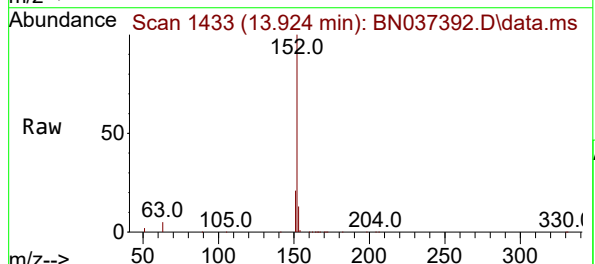
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

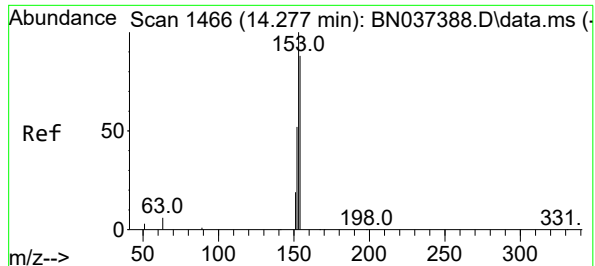
Tgt Ion:172 Resp: 76771
Ion Ratio Lower Upper
172 100
171 35.3 28.8 43.2
170 23.2 20.3 30.5



#16
Acenaphthylene
Concen: 5.600 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:152 Resp: 74682
Ion Ratio Lower Upper
152 100
151 19.9 15.8 23.6
153 13.1 10.3 15.5





#17

Acenaphthene

Concen: 5.553 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

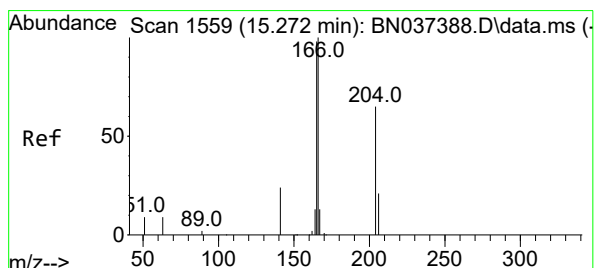
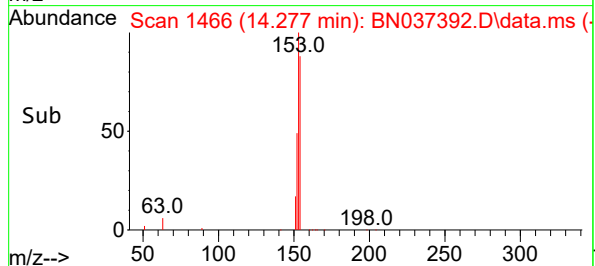
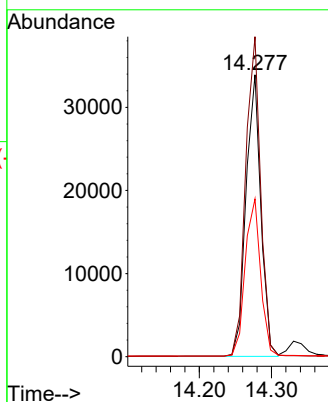
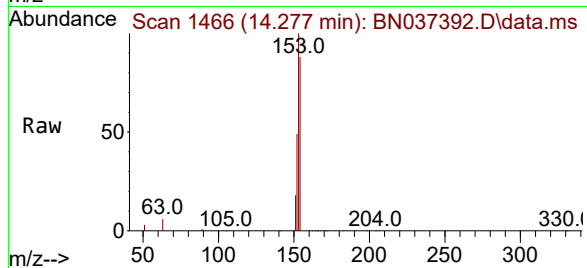
Tgt Ion:154 Resp: 48364

Ion Ratio Lower Upper

154 100

153 115.1 94.6 141.8

152 58.6 50.2 75.2



#18

Fluorene

Concen: 5.576 ng

RT: 15.271 min Scan# 1559

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

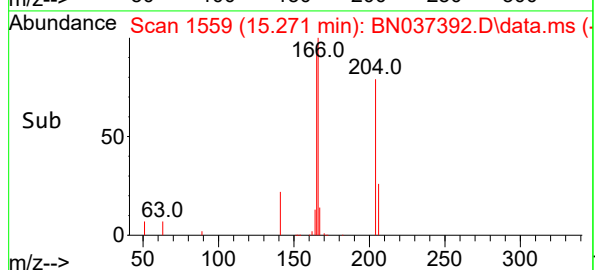
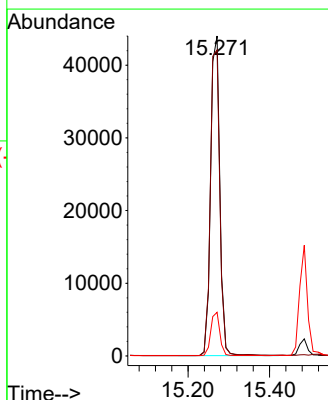
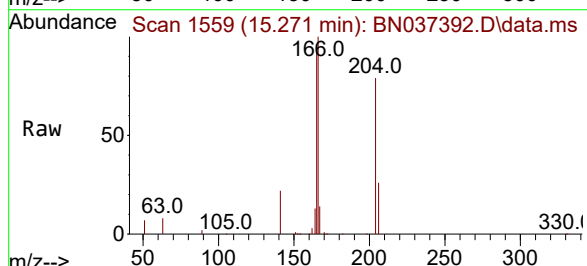
Tgt Ion:166 Resp: 68578

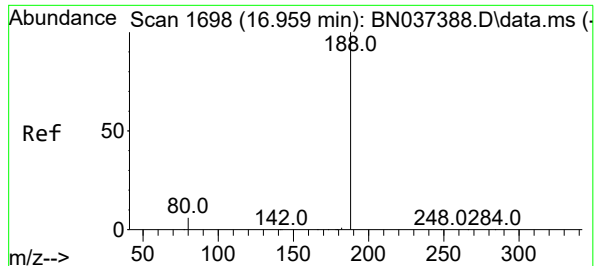
Ion Ratio Lower Upper

166 100

165 98.3 79.4 119.2

167 13.4 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

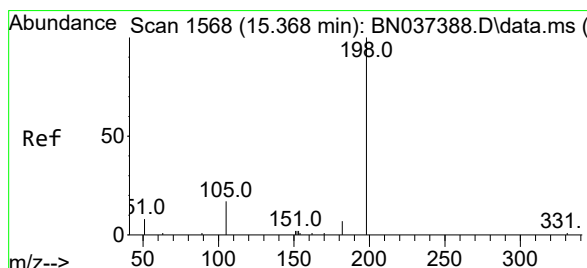
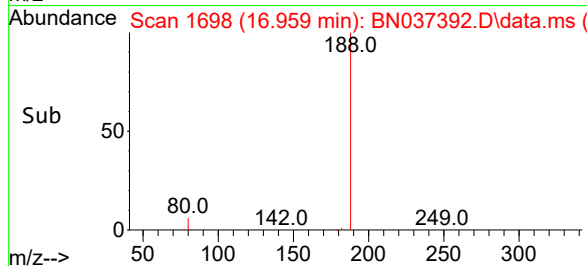
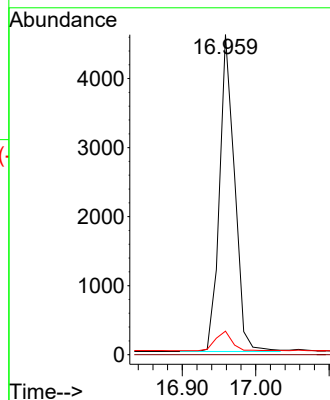
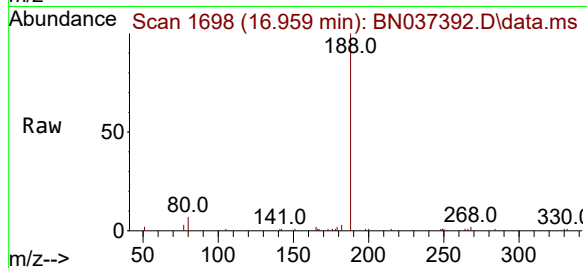
Tgt Ion:188 Resp: 6554

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 6.252 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

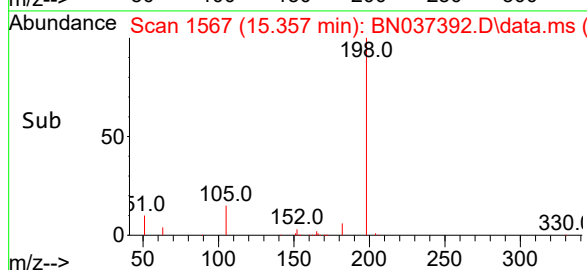
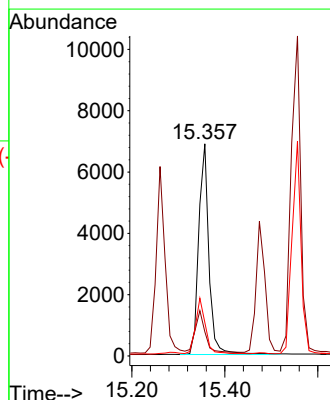
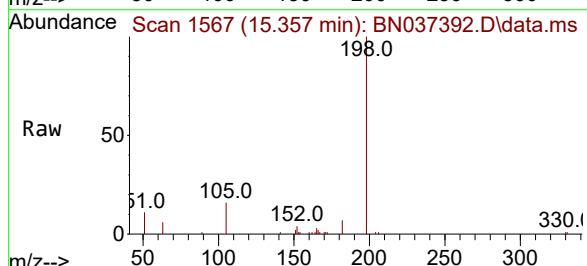
Tgt Ion:198 Resp: 10525

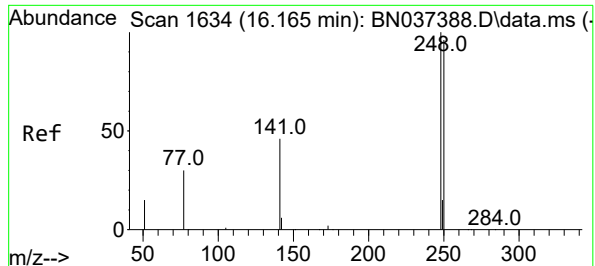
Ion Ratio Lower Upper

198 100

51 11.4 38.8 58.2#

105 15.8 29.8 44.6#





#21

4-Bromophenyl-phenylether

Concen: 5.594 ng

RT: 16.164 min Scan# 1634

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

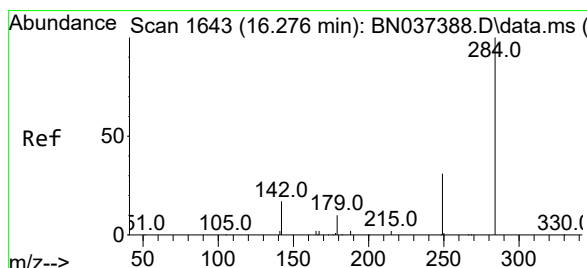
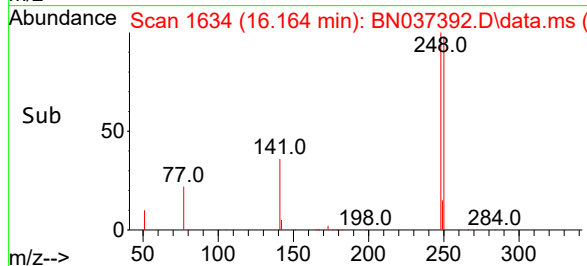
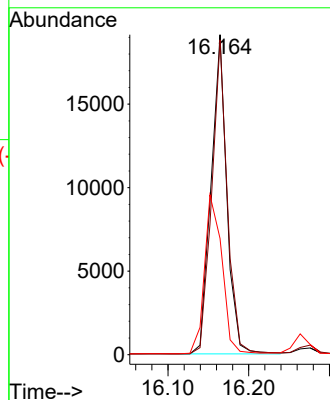
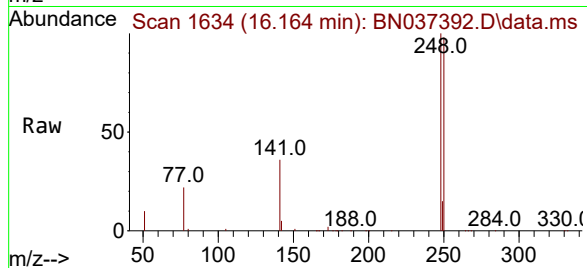
Tgt Ion:248 Resp: 25866

Ion Ratio Lower Upper

248 100

250 98.4 77.0 115.4

141 36.3 38.7 58.1#



#22

Hexachlorobenzene

Concen: 5.120 ng

RT: 16.276 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

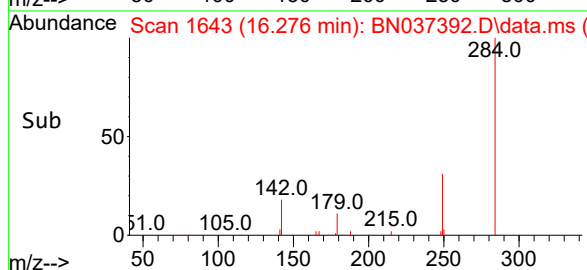
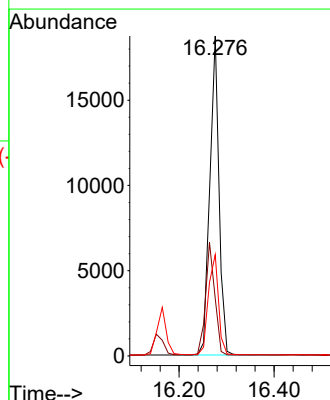
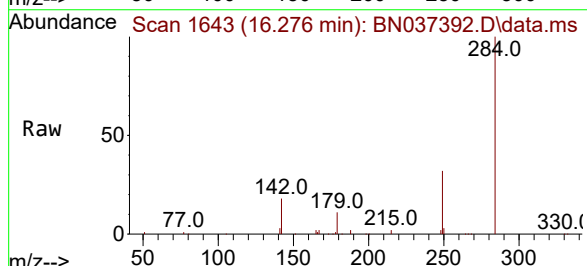
Tgt Ion:284 Resp: 25453

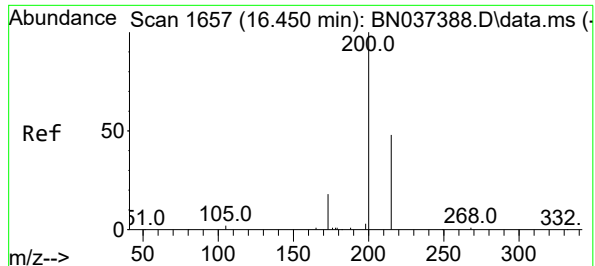
Ion Ratio Lower Upper

284 100

142 35.3 27.2 40.8

249 34.4 26.7 40.1

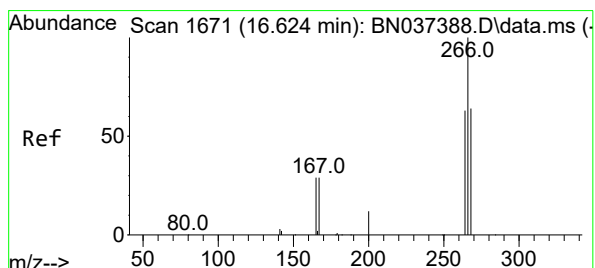
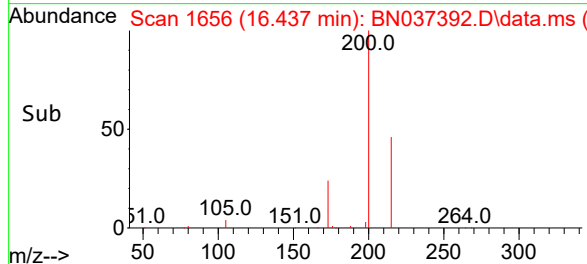
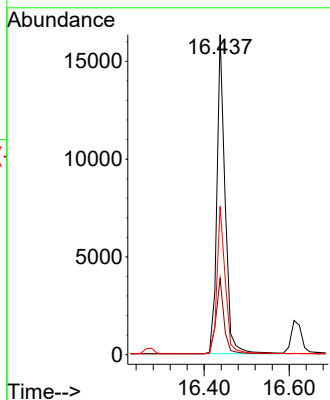
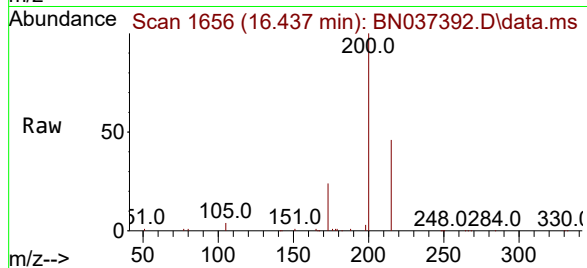




#23
Atrazine
Concen: 5.947 ng
RT: 16.437 min Scan# 1656
Delta R.T. -0.013 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

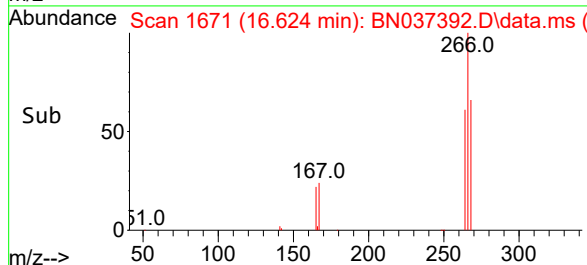
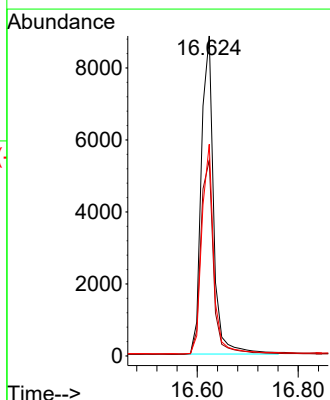
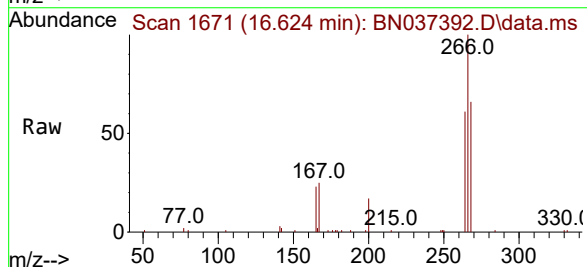
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

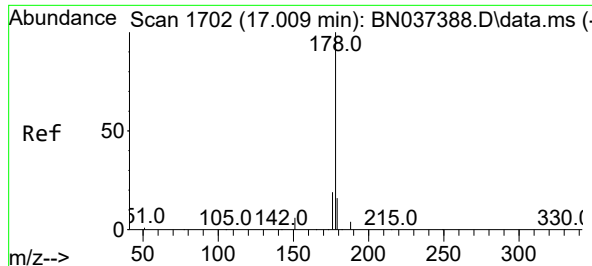
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.9	19.0	28.6
215	46.3	41.3	61.9



#24
Pentachlorophenol
Concen: 5.574 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.2	73.8
268	64.1	54.2	81.4





#25

Phenanthrene

Concen: 5.708 ng

RT: 16.996 min Scan# 1701

Delta R.T. -0.013 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

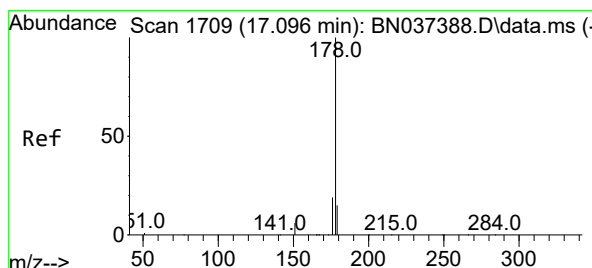
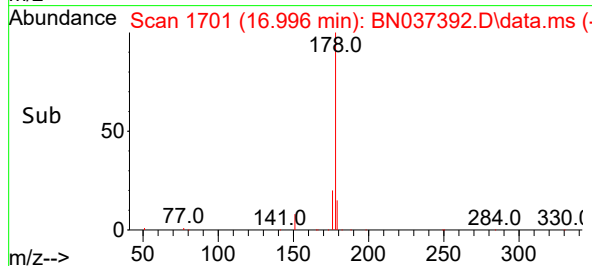
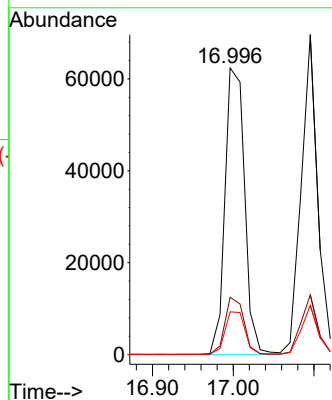
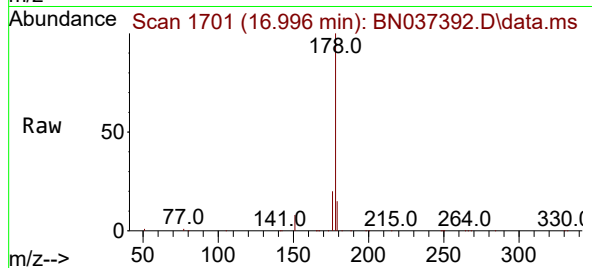
Tgt Ion:178 Resp: 105409

Ion Ratio Lower Upper

178 100

176 19.3 15.6 23.4

179 15.2 12.8 19.2



#26

Anthracene

Concen: 5.897 ng

RT: 17.095 min Scan# 1709

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

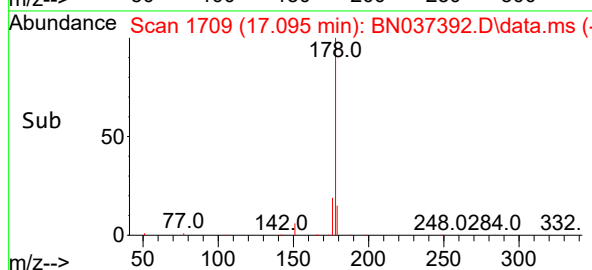
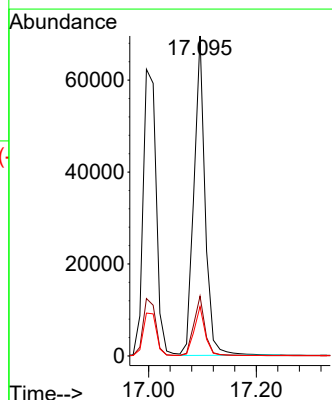
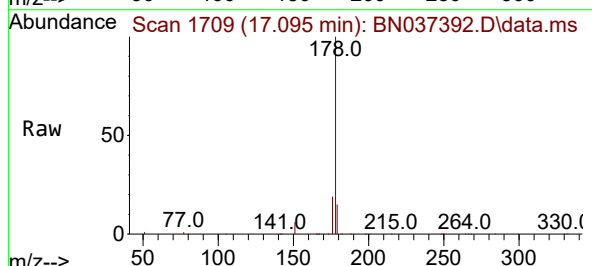
Tgt Ion:178 Resp: 100113

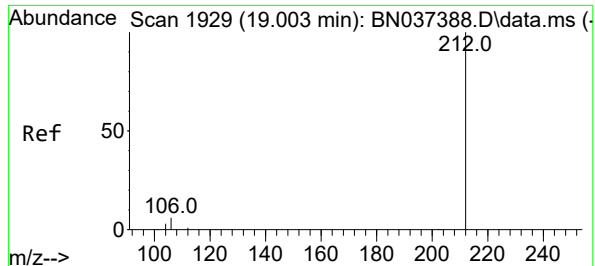
Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 6.313 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

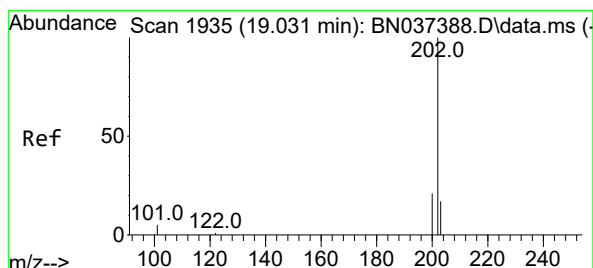
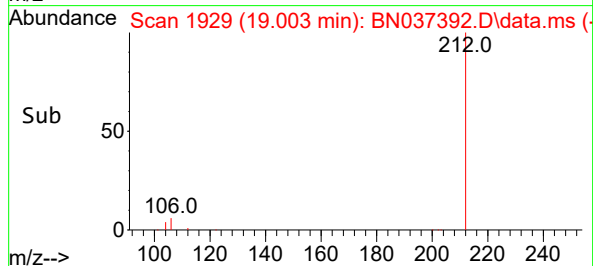
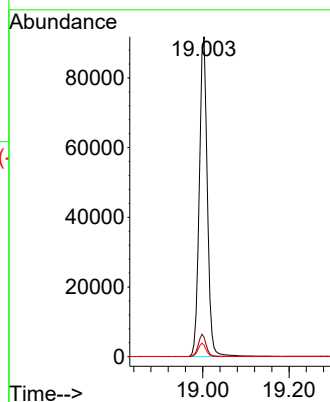
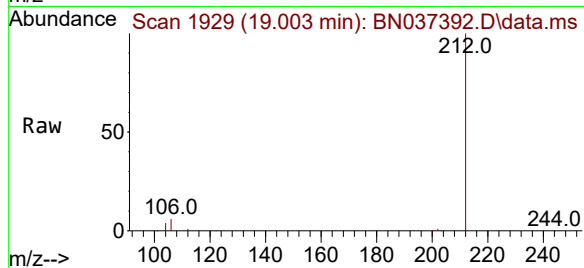
Tgt Ion:212 Resp: 118571

Ion Ratio Lower Upper

212 100

106 6.8 4.5 6.7#

104 4.1 2.7 4.1#



#28

Fluoranthene

Concen: 5.641 ng

RT: 19.031 min Scan# 1935

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

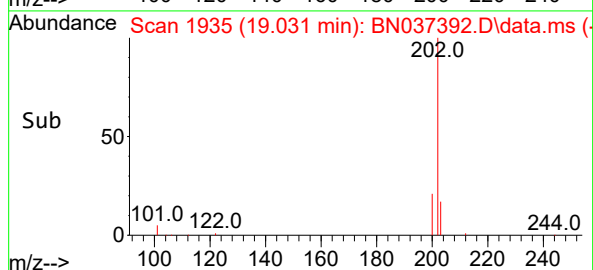
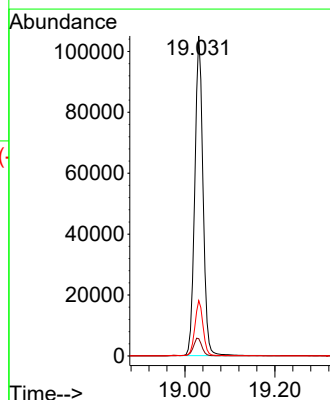
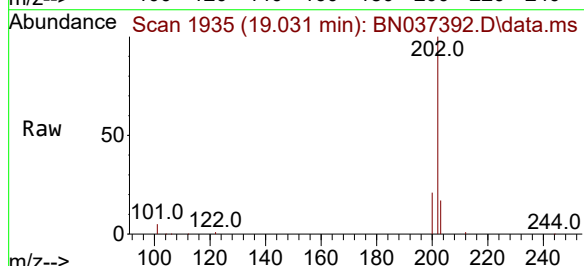
Tgt Ion:202 Resp: 133030

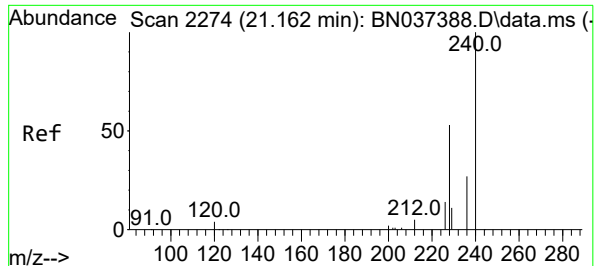
Ion Ratio Lower Upper

202 100

101 5.8 3.8 5.6#

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

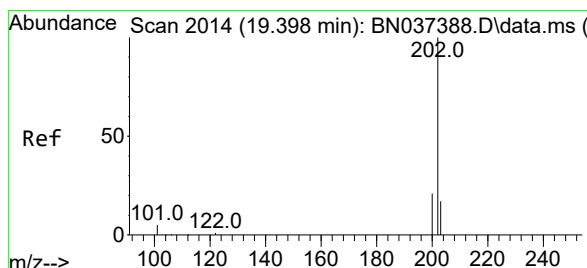
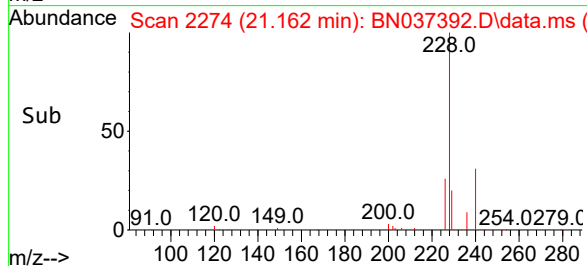
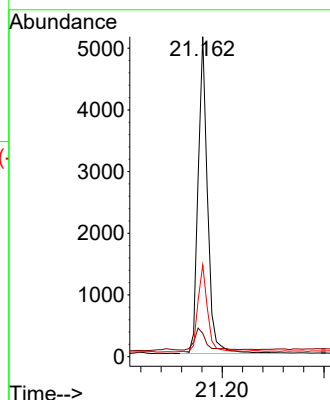
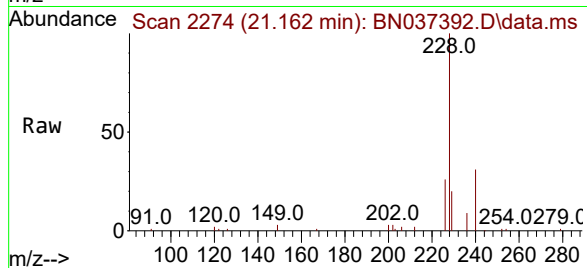
Tgt Ion:240 Resp: 6601

Ion Ratio Lower Upper

240 100

120 7.3 5.3 7.9

236 28.7 22.7 34.1



#30

Pyrene

Concen: 5.324 ng

RT: 19.393 min Scan# 2013

Delta R.T. -0.005 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

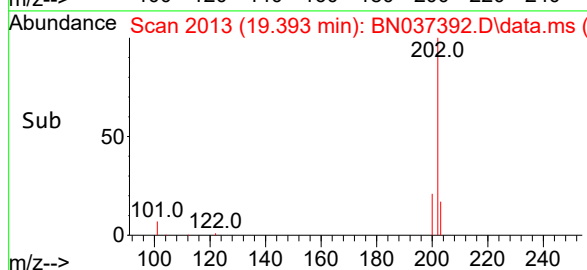
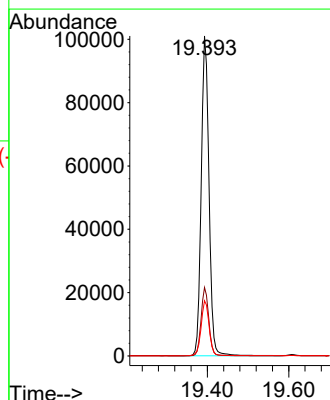
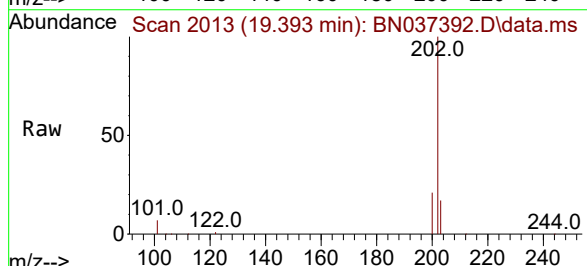
Tgt Ion:202 Resp: 132986

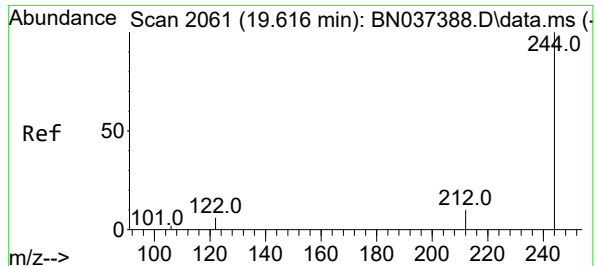
Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 17.7 14.2 21.2

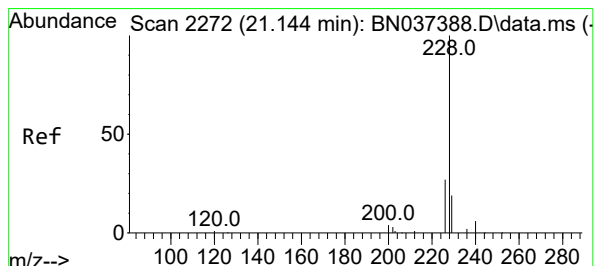
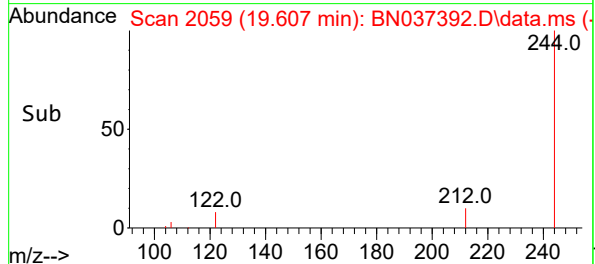
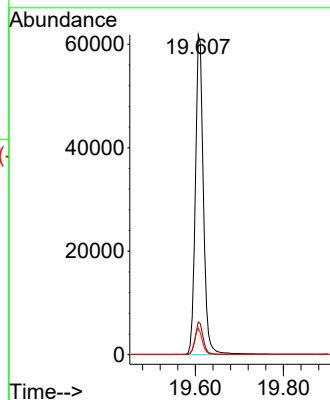
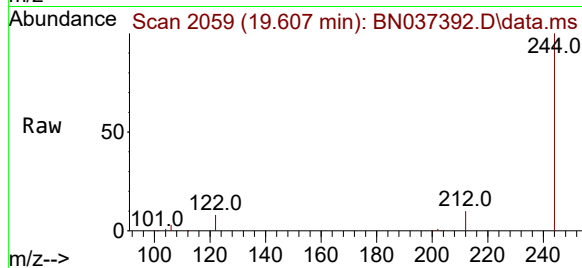




#31
Terphenyl-d14
Concen: 5.527 ng
RT: 19.607 min Scan# 2059
Delta R.T. -0.009 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

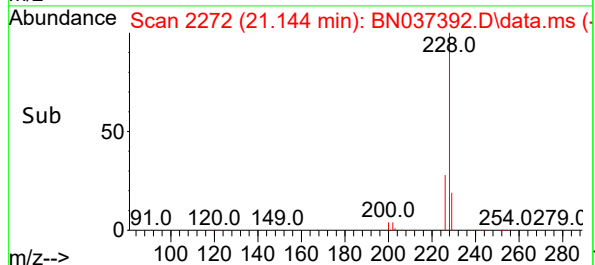
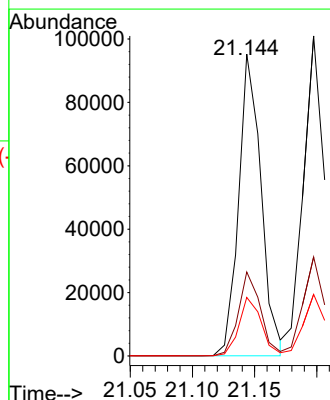
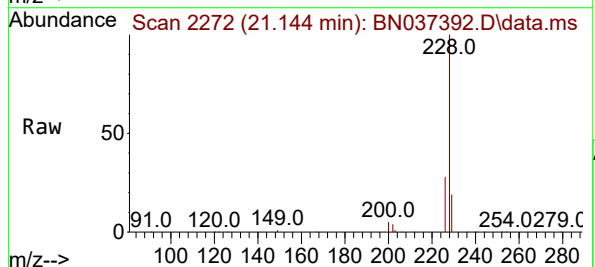
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

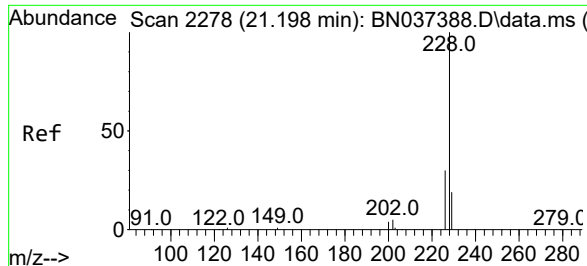
Tgt Ion:244 Resp: 77795
Ion Ratio Lower Upper
244 100
212 10.2 9.1 13.7
122 8.3 6.3 9.5



#32
Benzo(a)anthracene
Concen: 5.754 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:228 Resp: 119334
Ion Ratio Lower Upper
228 100
226 27.9 22.6 34.0
229 19.4 16.2 24.2





#33

Chrysene

Concen: 4.982 ng

RT: 21.197 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

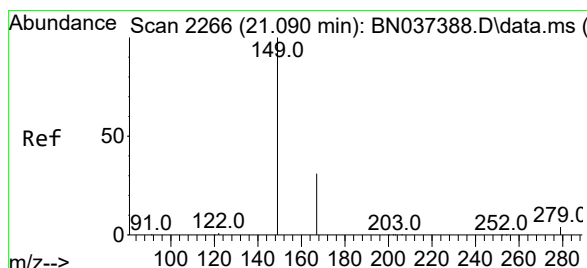
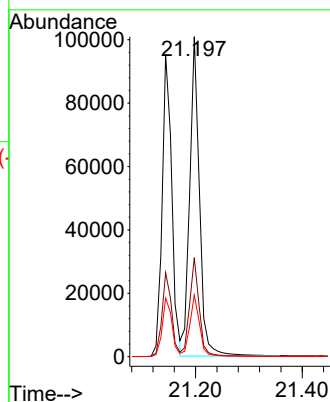
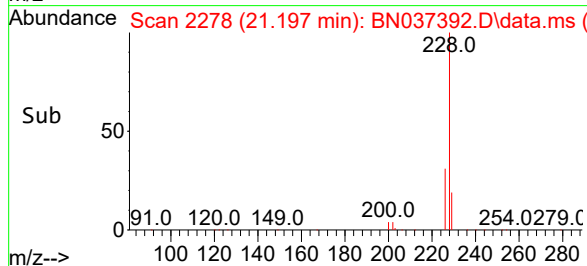
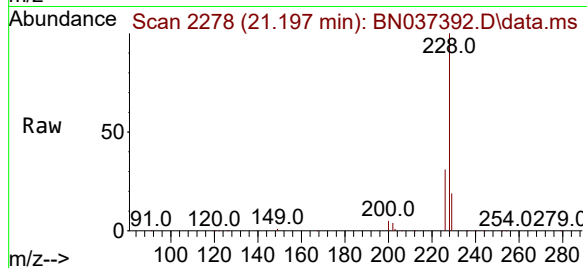
Tgt Ion:228 Resp: 127936

Ion Ratio Lower Upper

228 100

226 30.9 24.5 36.7

229 19.3 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.397 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

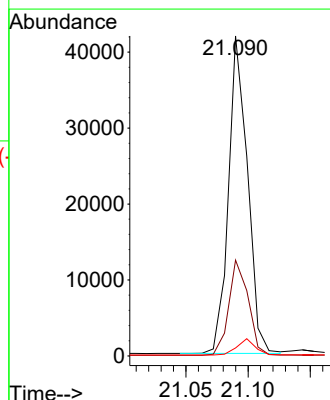
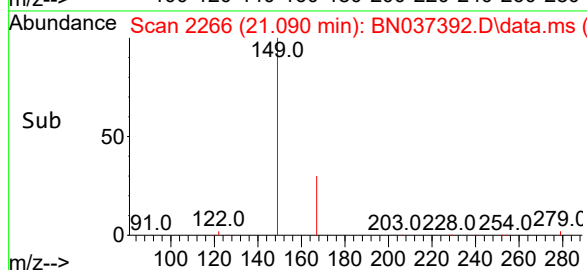
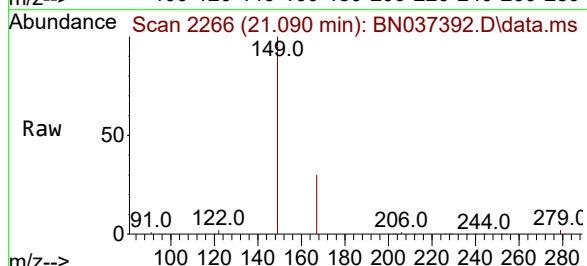
Tgt Ion:149 Resp: 44321

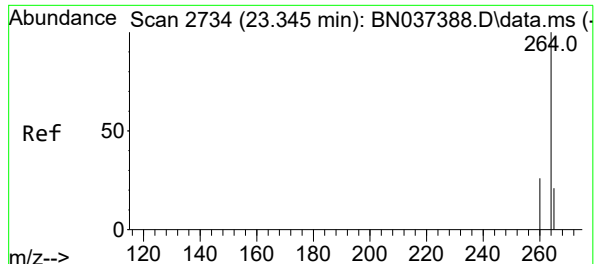
Ion Ratio Lower Upper

149 100

167 30.9 24.8 37.2

279 5.0 5.0 7.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

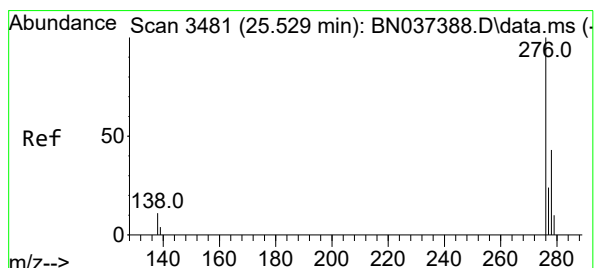
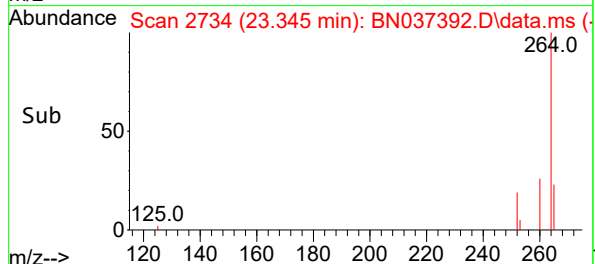
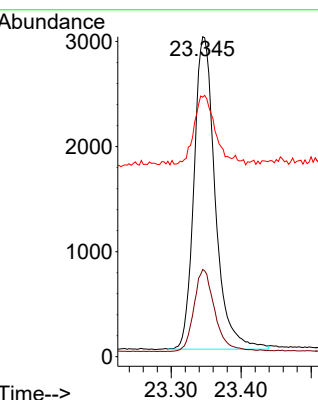
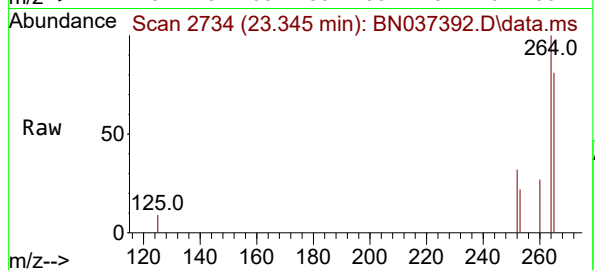
Tgt Ion:264 Resp: 6264

Ion Ratio Lower Upper

264 100

260 27.3 21.4 32.0

265 81.1 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.833 ng

RT: 25.523 min Scan# 3479

Delta R.T. -0.006 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

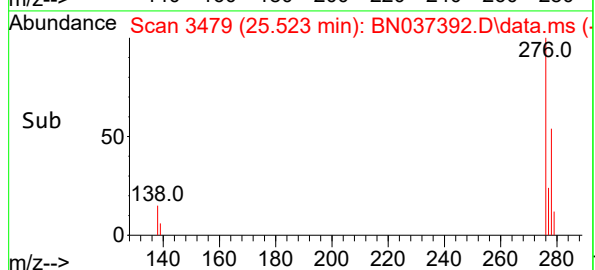
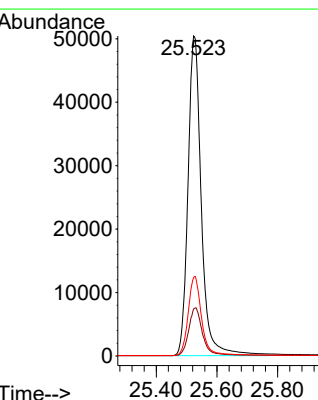
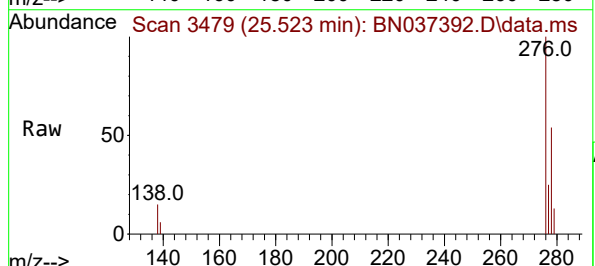
Tgt Ion:276 Resp: 154039

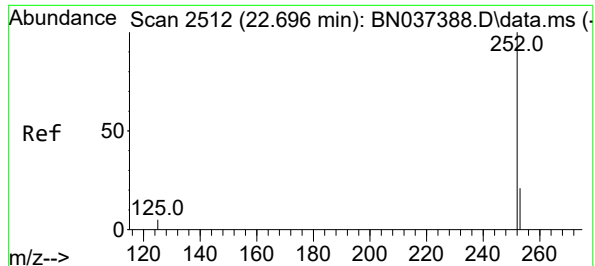
Ion Ratio Lower Upper

276 100

138 15.3 8.5 12.7#

277 24.9 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 5.787 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

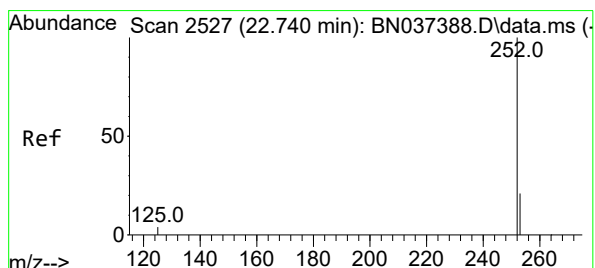
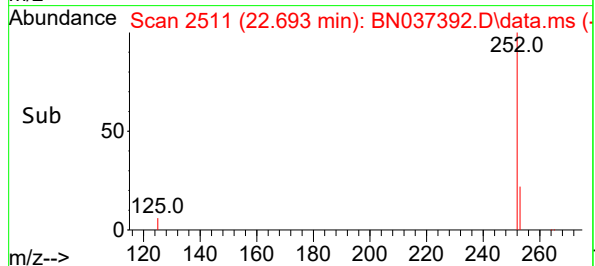
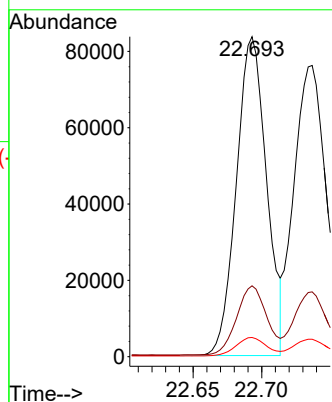
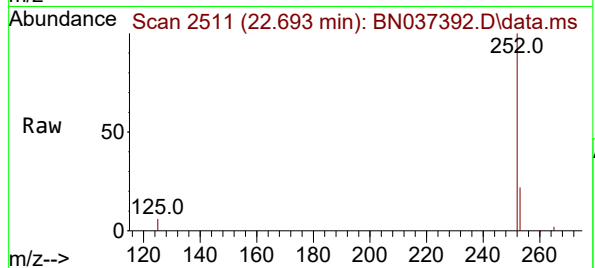
Tgt Ion:252 Resp: 127810

Ion Ratio Lower Upper

252 100

253 22.2 22.8 34.2#

125 6.0 6.2 9.4#



#38

Benzo(k)fluoranthene

Concen: 5.630 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

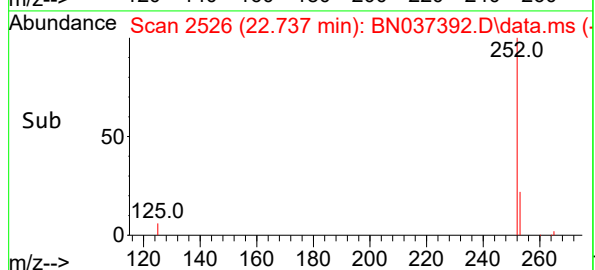
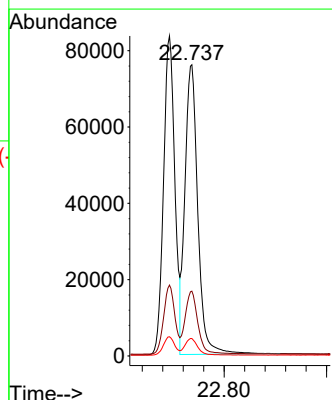
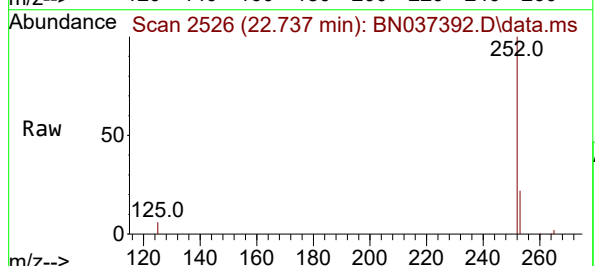
Tgt Ion:252 Resp: 132887

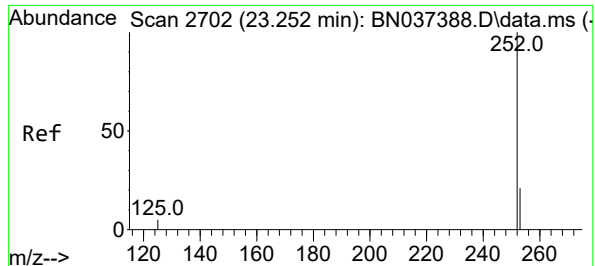
Ion Ratio Lower Upper

252 100

253 22.3 23.2 34.8#

125 6.0 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 5.686 ng

RT: 23.248 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

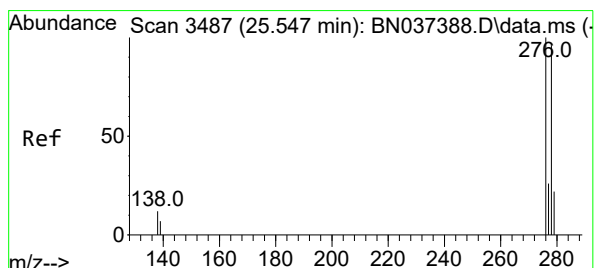
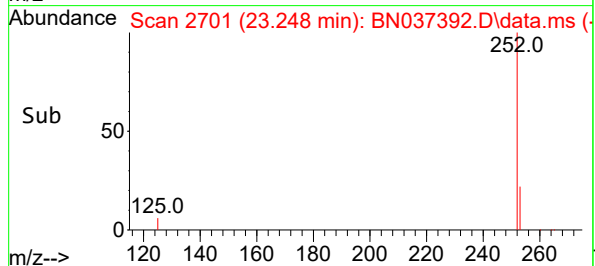
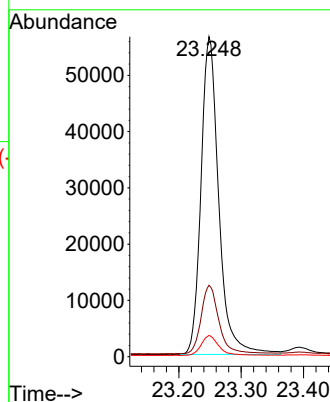
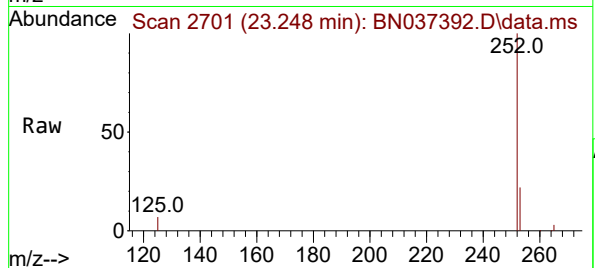
Tgt Ion:252 Resp: 111691

Ion Ratio Lower Upper

252 100

253 22.3 25.6 38.4#

125 6.6 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 6.025 ng

RT: 25.538 min Scan# 3484

Delta R.T. -0.009 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

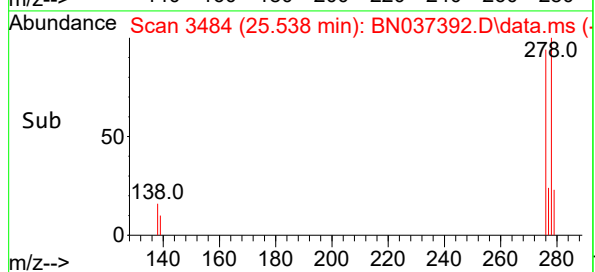
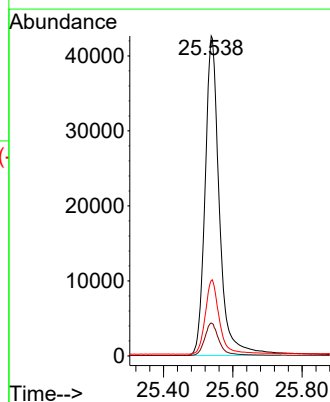
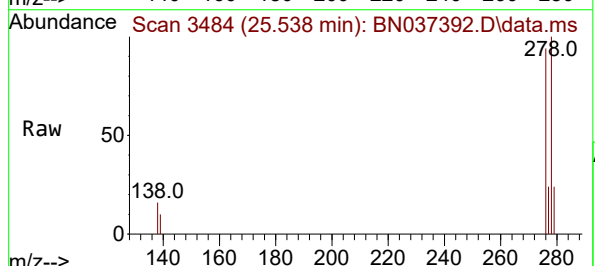
Tgt Ion:278 Resp: 122232

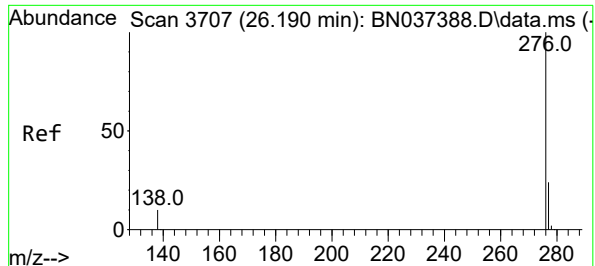
Ion Ratio Lower Upper

278 100

139 10.3 8.5 12.7

279 23.6 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 5.570 ng

RT: 26.190 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037392.D

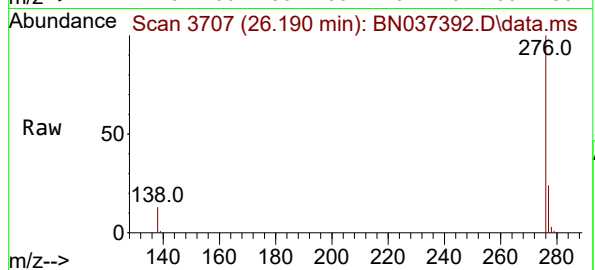
Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



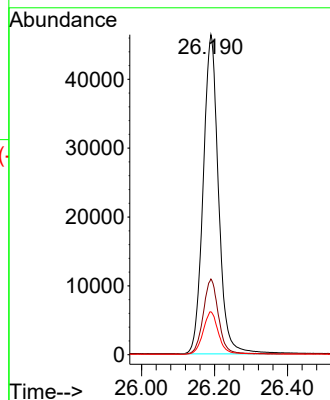
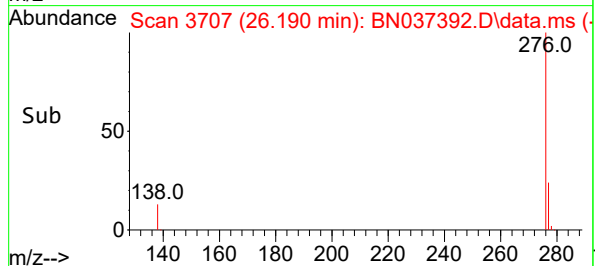
Tgt Ion:276 Resp: 135052

Ion Ratio Lower Upper

276 100

277 23.6 21.0 31.4

138 13.4 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037393.D
 Acq On : 26 Jun 2025 14:54
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062625

Quant Time: Jun 26 16:06:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

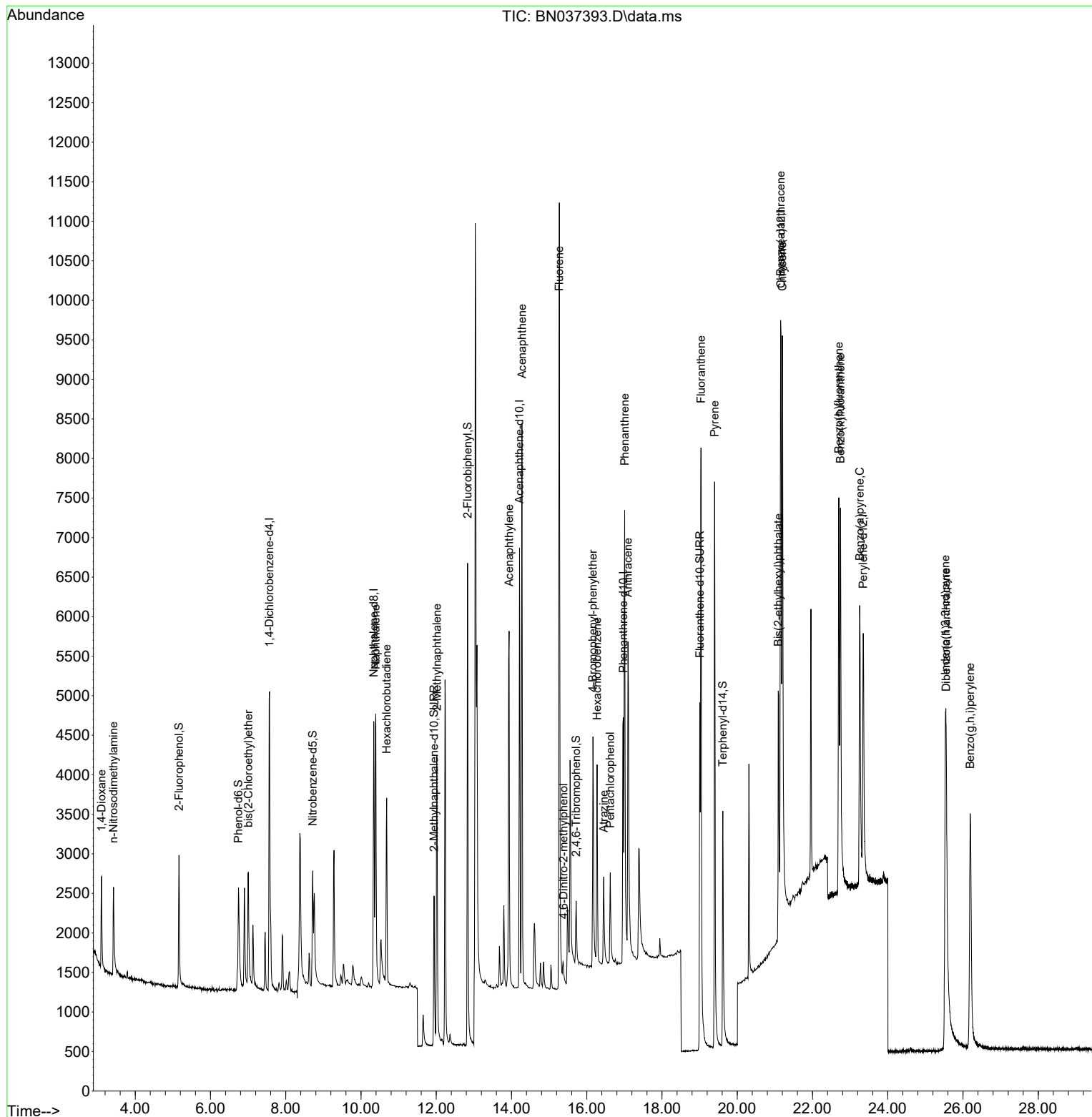
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2171	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4836	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	3065	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	6127	0.400	ng	# 0.01
29) Chrysene-d12	21.162	240	5019	0.400	ng	# 0.00
35) Perylene-d12	23.348	264	4884	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1574	0.376	ng	0.00
5) Phenol-d6	6.744	99	1620	0.373	ng	0.00
8) Nitrobenzene-d5	8.717	82	1646	0.425	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	3153	0.421	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	623	0.347	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	6004	0.454	ng	0.00
27) Fluoranthene-d10	19.003	212	6867	0.391	ng	0.00
31) Terphenyl-d14	19.616	244	4960	0.464	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1015	0.493	ng	94
3) n-Nitrosodimethylamine	3.422	42	847	0.417	ng	# 88
6) bis(2-Chloroethyl)ether	7.004	93	1776	0.460	ng	99
9) Naphthalene	10.394	128	5176	0.416	ng	99
10) Hexachlorobutadiene	10.682	225	2038	0.412	ng	# 99
12) 2-Methylnaphthalene	12.016	142	3148	0.367	ng	98
16) Acenaphthylene	13.935	152	5693	0.448	ng	99
17) Acenaphthene	14.277	154	3435	0.414	ng	99
18) Fluorene	15.272	166	4775	0.407	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	497	0.316	ng	# 86
21) 4-Bromophenyl-phenylether	16.165	248	1722	0.398	ng	# 93
22) Hexachlorobenzene	16.276	284	1984	0.427	ng	97
23) Atrazine	16.450	200	1384	0.404	ng	97
24) Pentachlorophenol	16.624	266	775	0.309	ng	98
25) Phenanthrene	17.009	178	7070	0.410	ng	99
26) Anthracene	17.095	178	6496	0.409	ng	99
28) Fluoranthene	19.035	202	8423	0.382	ng	99
30) Pyrene	19.398	202	8354	0.440	ng	99
32) Benzo(a)anthracene	21.153	228	6494	0.412	ng	99
33) Chrysene	21.198	228	7943	0.407	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	2775	0.444	ng	99
36) Indeno(1,2,3-cd)pyrene	25.532	276	8543	0.415	ng	96
37) Benzo(b)fluoranthene	22.699	252	6764	0.393	ng	96
38) Benzo(k)fluoranthene	22.743	252	8109	0.441	ng	# 96
39) Benzo(a)pyrene	23.254	252	6621	0.432	ng	# 94
40) Dibenzo(a,h)anthracene	25.552	278	6443	0.407	ng	96
41) Benzo(g,h,i)perylene	26.193	276	7497	0.397	ng	99

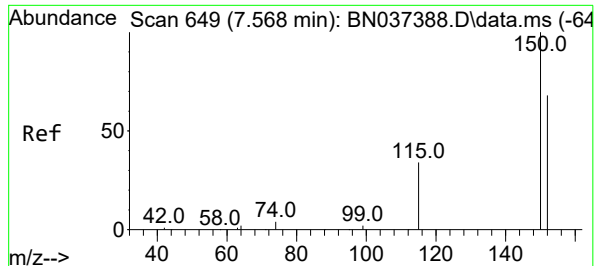
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

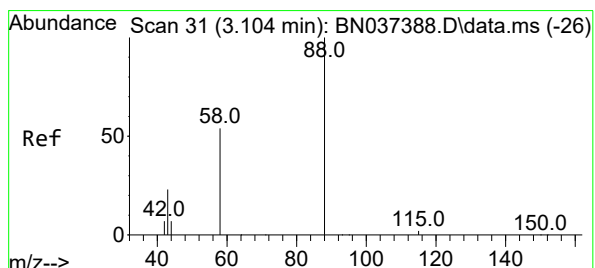
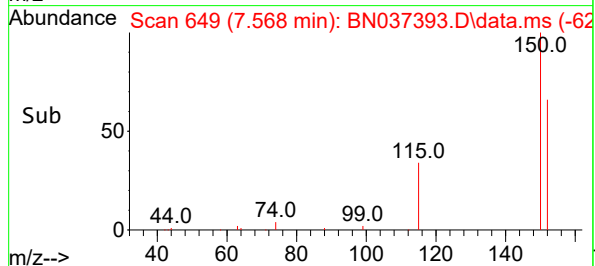
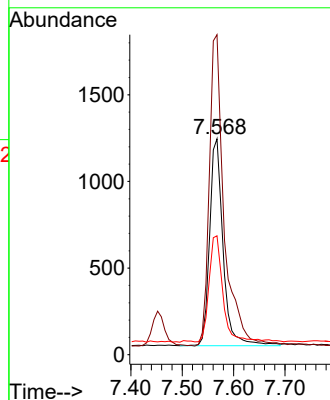
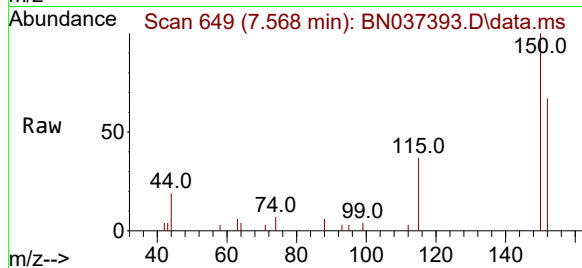




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

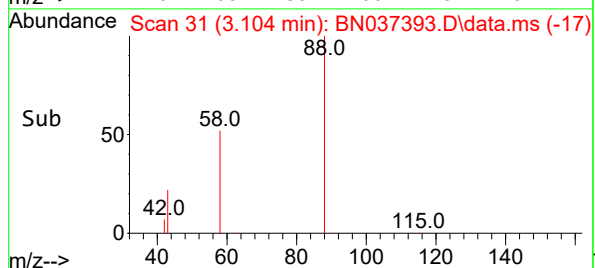
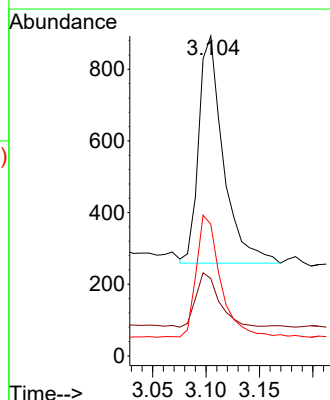
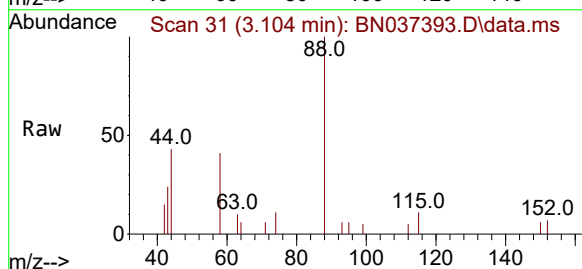
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

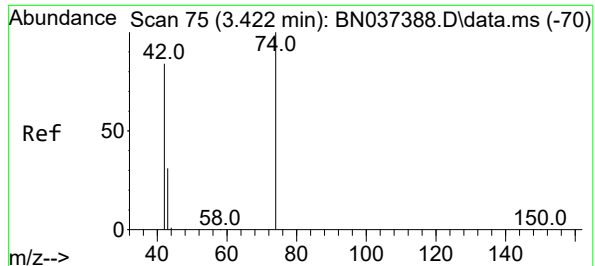
Tgt Ion:152 Resp: 2171
Ion Ratio Lower Upper
152 100
150 148.2 116.2 174.2
115 55.1 42.9 64.3



#2
1,4-Dioxane
Concen: 0.493 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 88 Resp: 1015
Ion Ratio Lower Upper
88 100
43 23.0 21.6 32.4
58 53.6 45.9 68.9

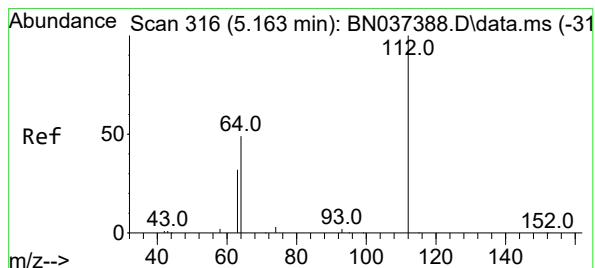
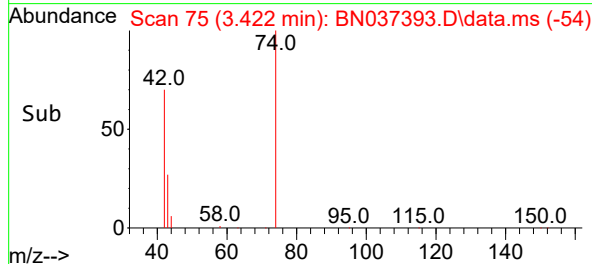
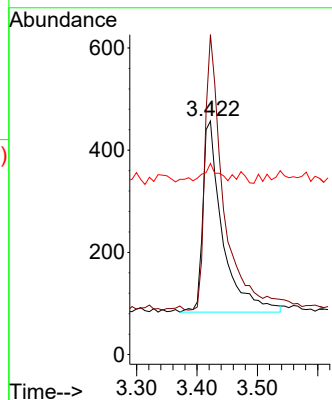
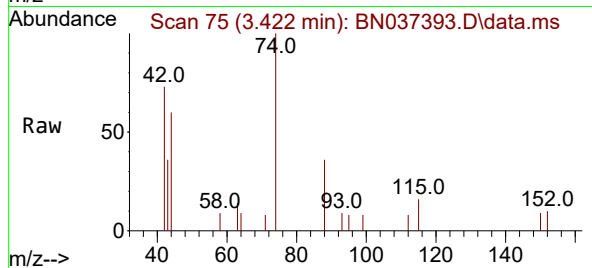




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.422 min Scan# 75
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

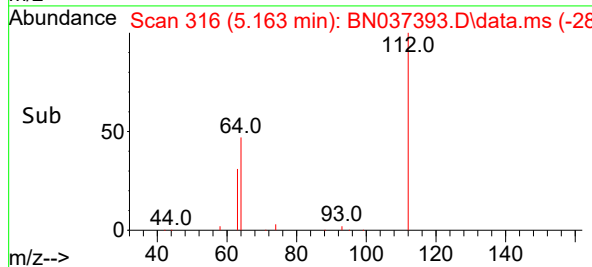
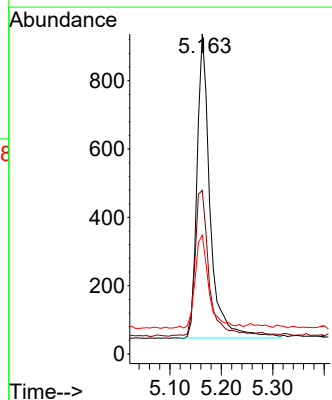
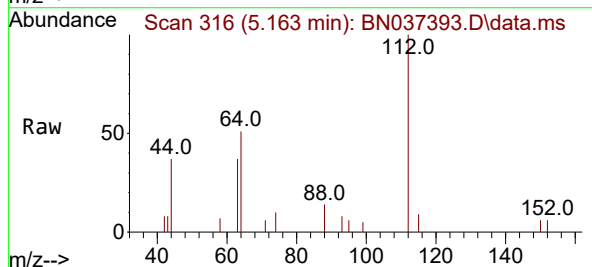
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

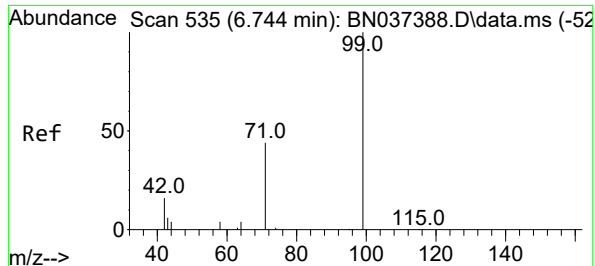
Tgt Ion: 42 Resp: 847
Ion Ratio Lower Upper
42 100
74 136.5 97.8 146.8
44 7.3 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.376 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 112 Resp: 1574
Ion Ratio Lower Upper
112 100
64 51.4 40.3 60.5
63 31.5 26.1 39.1

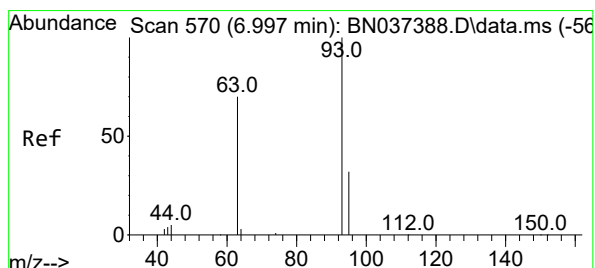
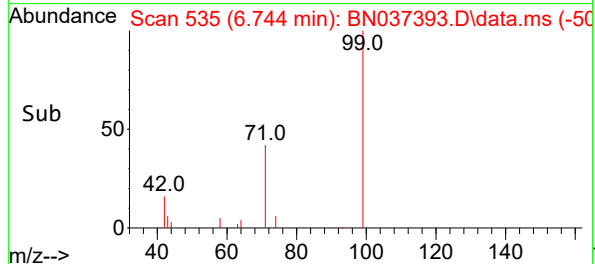
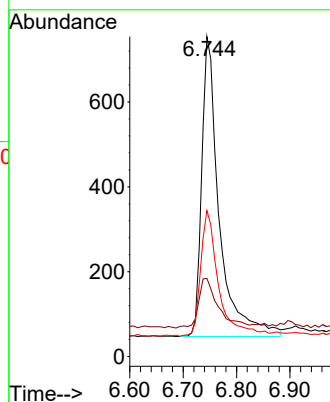
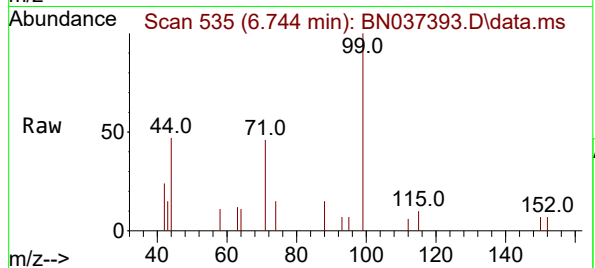




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.744 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

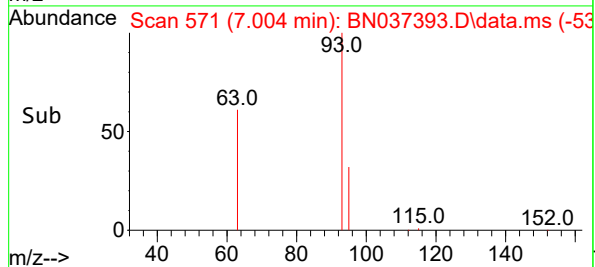
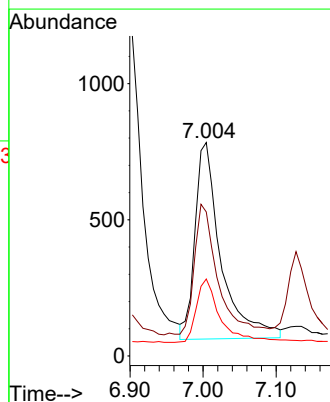
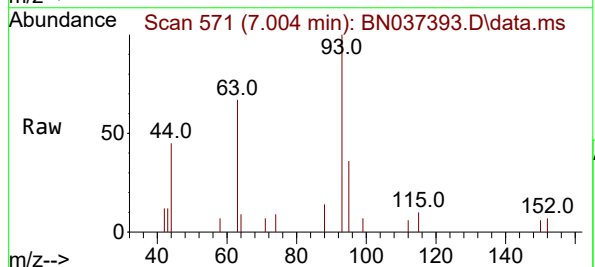
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

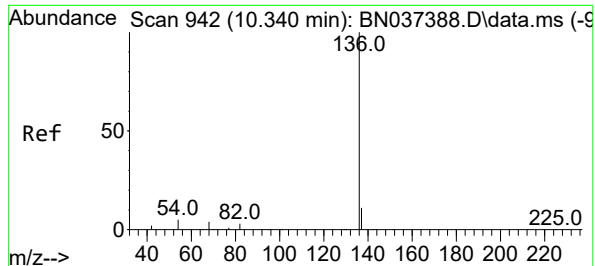
Tgt Ion: 99 Resp: 1620
Ion Ratio Lower Upper
99 100
42 18.6 15.6 23.4
71 42.7 35.8 53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.460 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 93 Resp: 1776
Ion Ratio Lower Upper
93 100
63 60.8 49.6 74.4
95 30.5 23.9 35.9

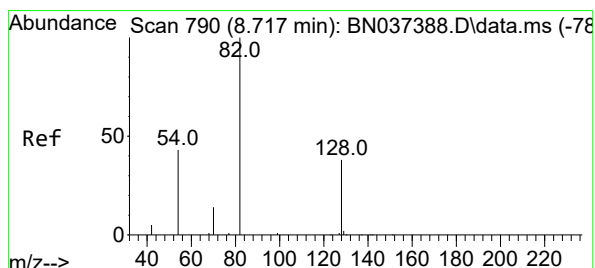
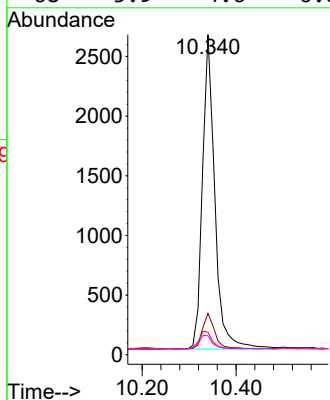
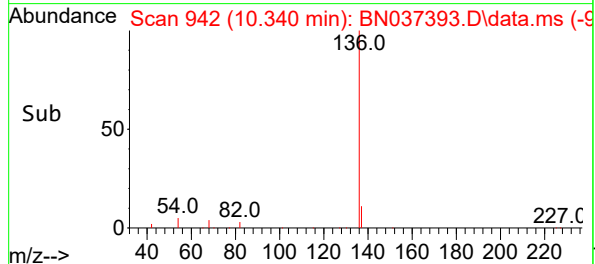
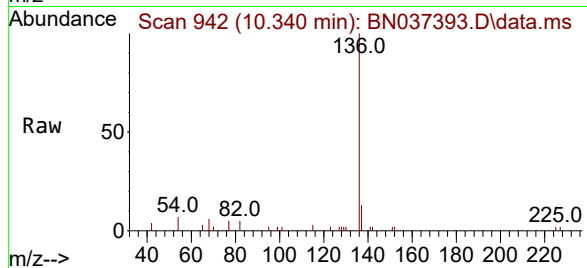




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

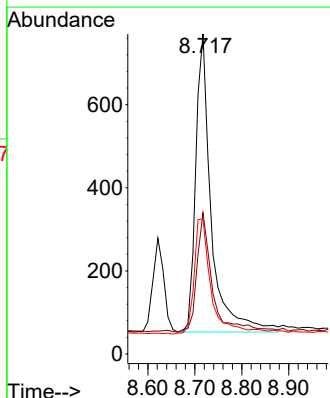
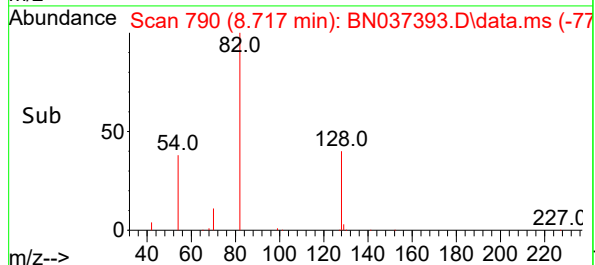
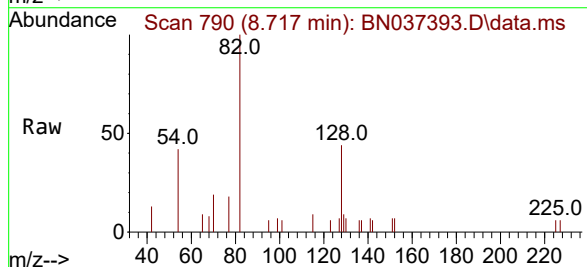
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

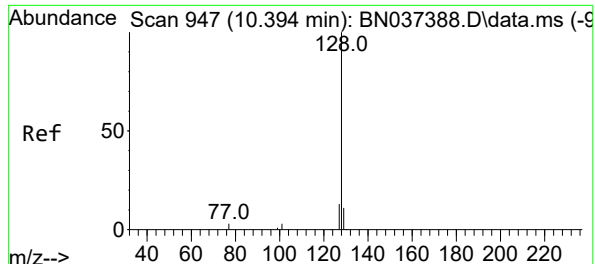
Tgt Ion:	136	Resp:	4836
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	7.1	5.6	8.4
68	5.9	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.425 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:	82	Resp:	1646
Ion	Ratio	Lower	Upper
82	100		
128	44.2	34.0	51.0
54	42.2	37.7	56.5

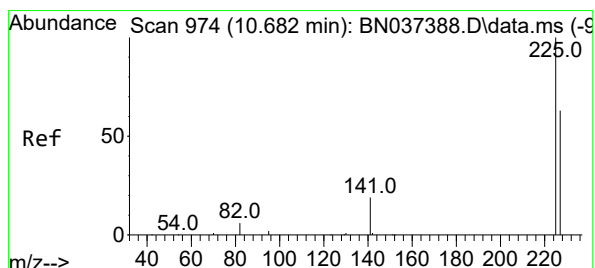
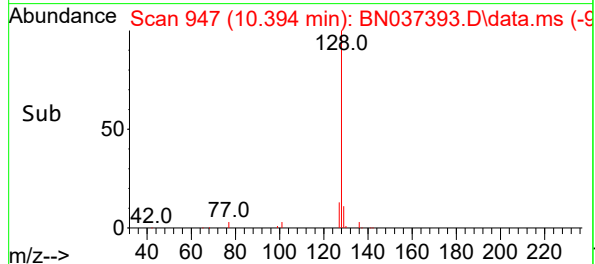
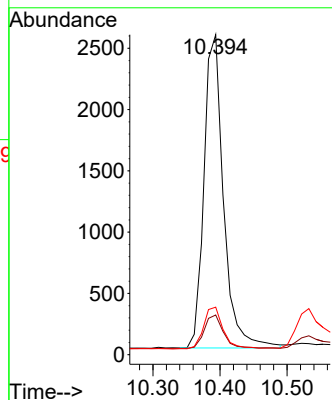
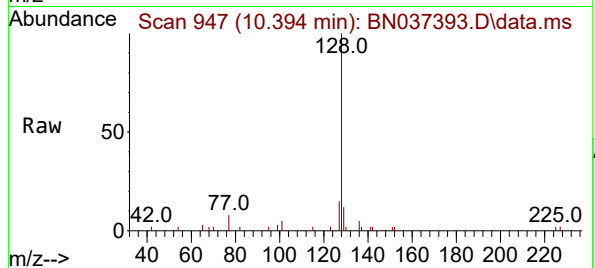




#9
Naphthalene
Concen: 0.416 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

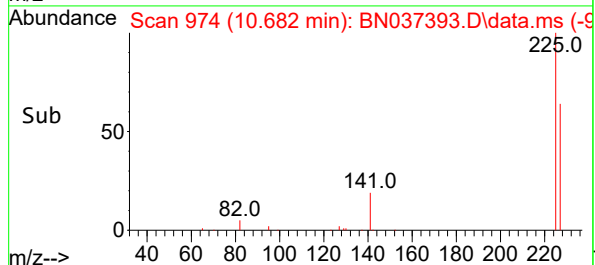
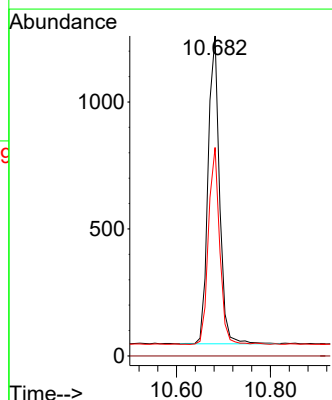
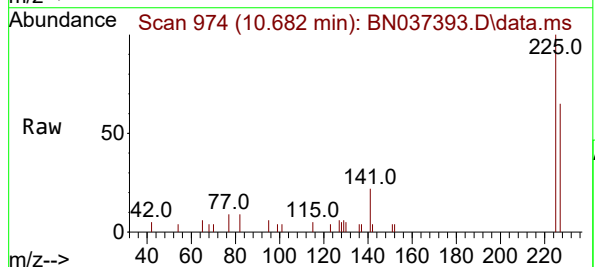
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

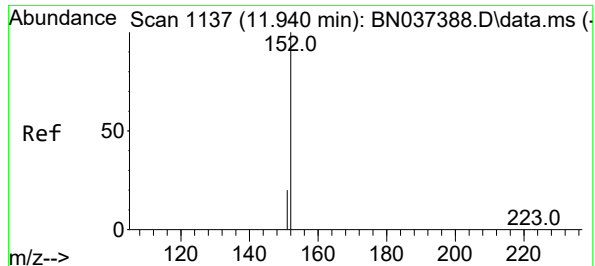
Tgt Ion:	128	Resp:	5176
Ion	Ratio	Lower	Upper
128	100		
129	12.4	10.4	15.6
127	14.9	12.2	18.4



#10
Hexachlorobutadiene
Concen: 0.412 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:	225	Resp:	2038
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	49.9	74.9

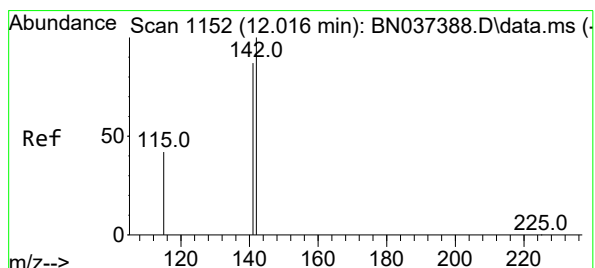
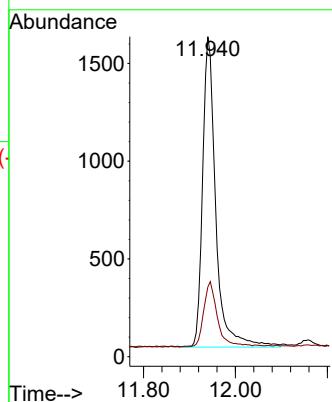
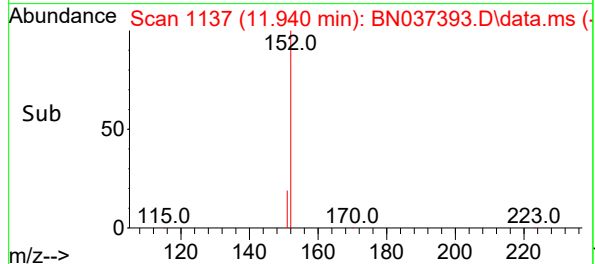
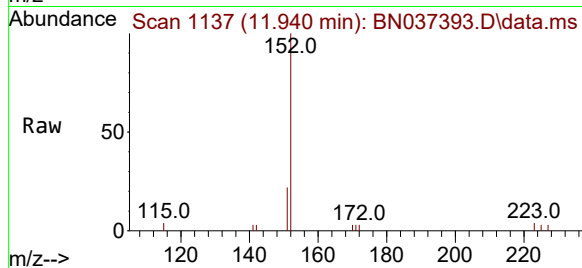




#11
2-Methylnaphthalene-d10
Concen: 0.421 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

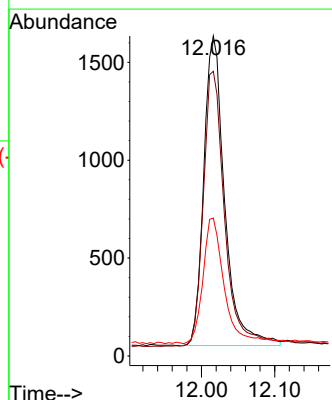
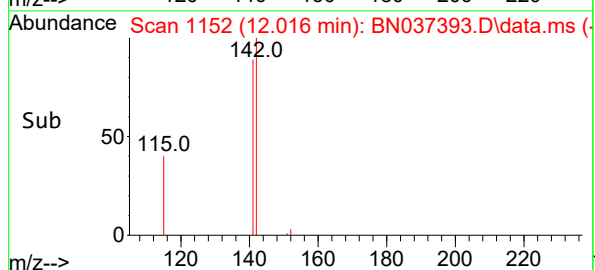
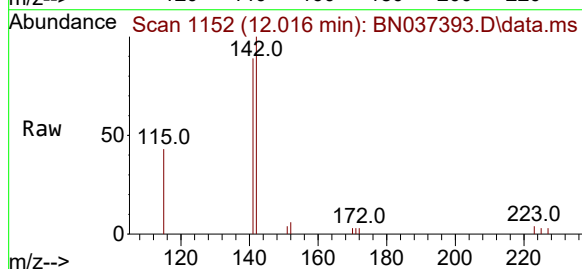
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

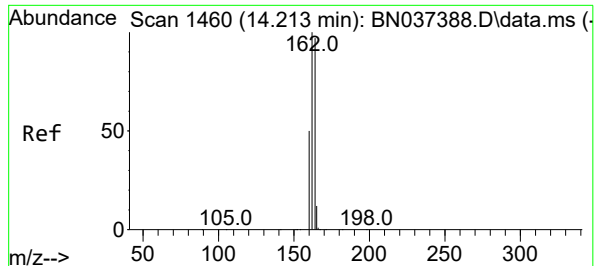
Tgt Ion:152 Resp: 3153
Ion Ratio Lower Upper
152 100
151 21.6 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:142 Resp: 3148
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 43.1 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

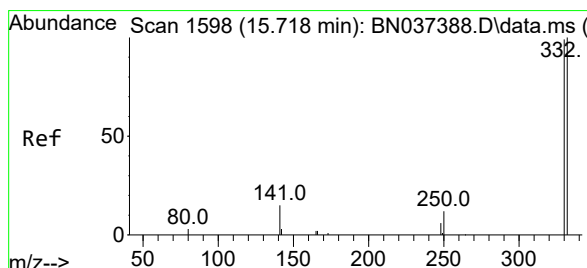
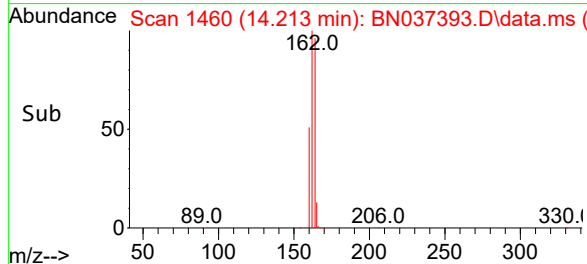
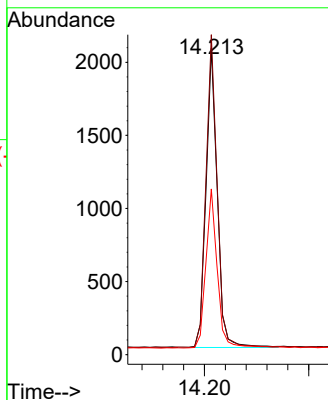
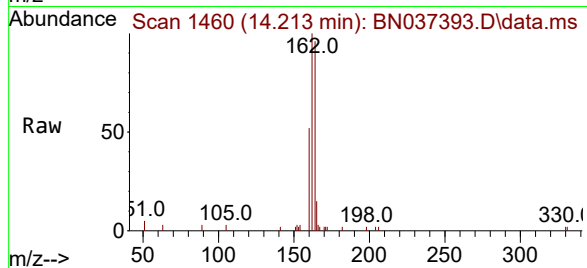
Tgt Ion:164 Resp: 3065

Ion Ratio Lower Upper

164 100

162 104.4 82.6 123.8

160 54.1 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.347 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

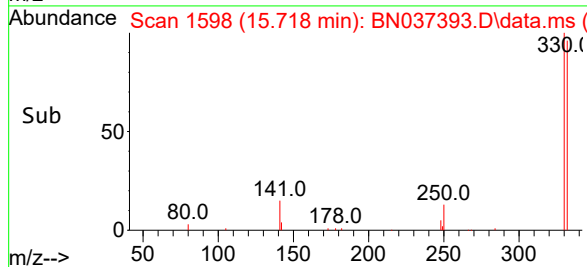
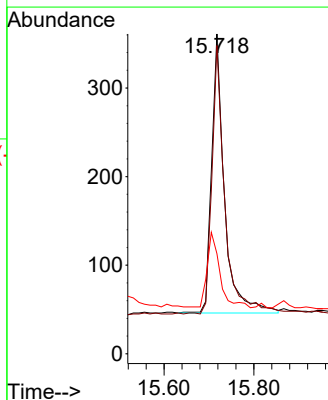
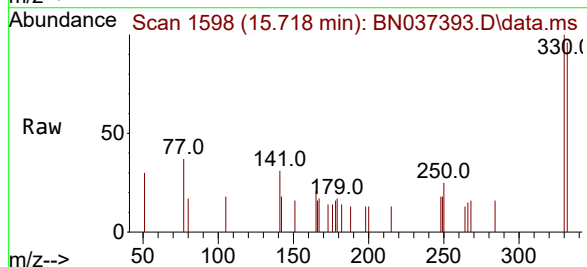
Tgt Ion:330 Resp: 623

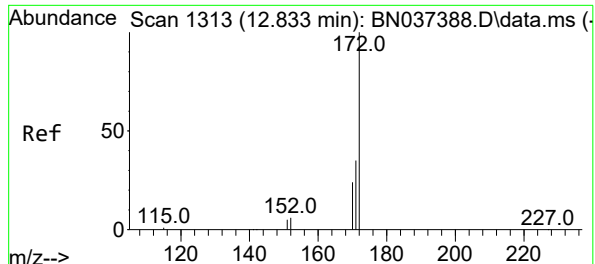
Ion Ratio Lower Upper

330 100

332 97.3 77.8 116.8

141 26.8 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 0.454 ng

RT: 12.833 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

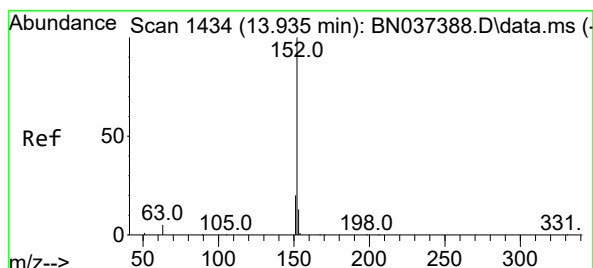
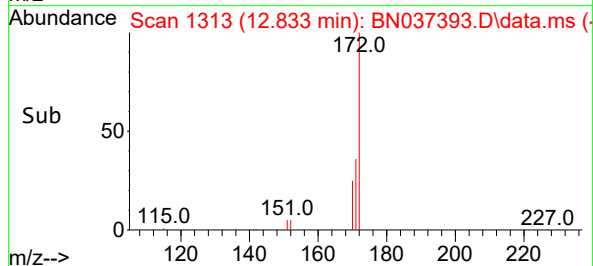
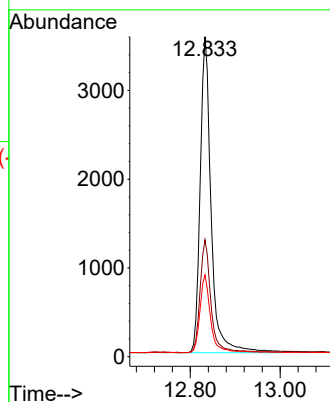
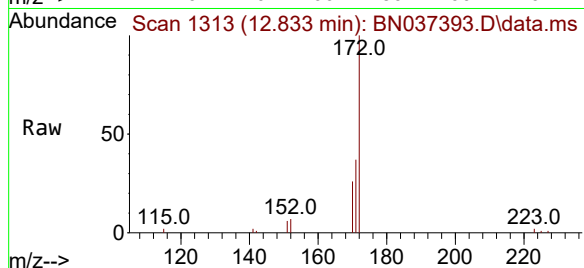
Tgt Ion:172 Resp: 6004

Ion Ratio Lower Upper

172 100

171 36.6 28.8 43.2

170 25.6 20.3 30.5



#16

Acenaphthylene

Concen: 0.448 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

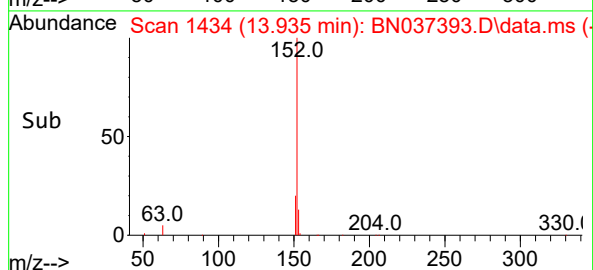
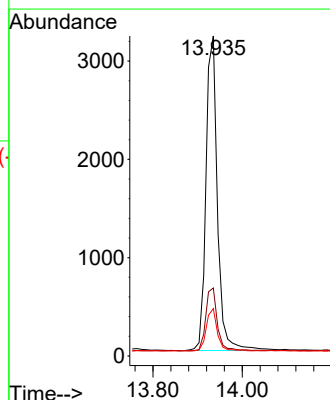
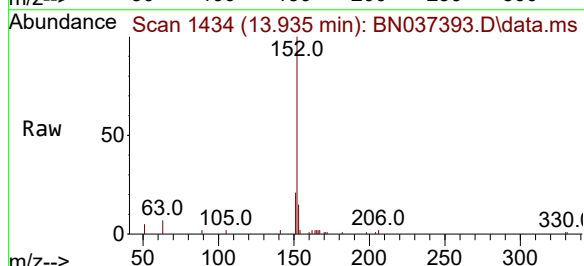
Tgt Ion:152 Resp: 5693

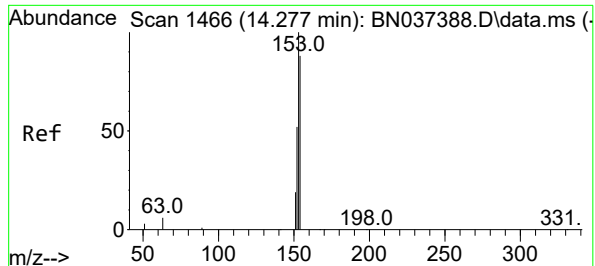
Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.6

153 12.9 10.3 15.5

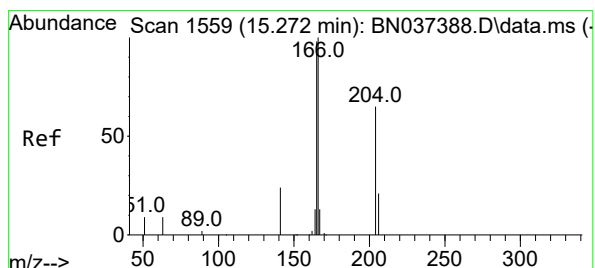
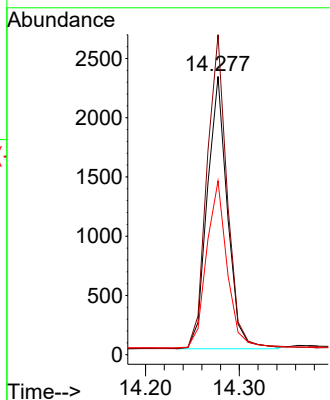
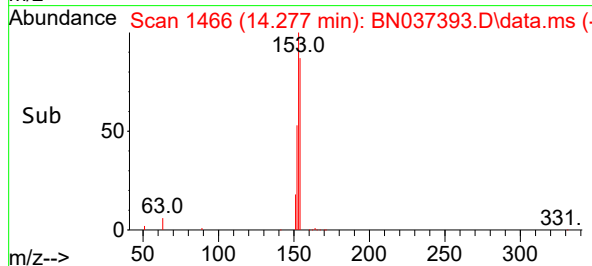
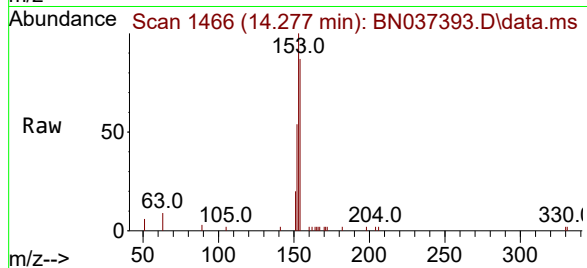




#17
Acenaphthene
Concen: 0.414 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

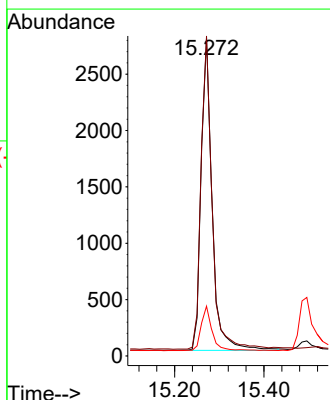
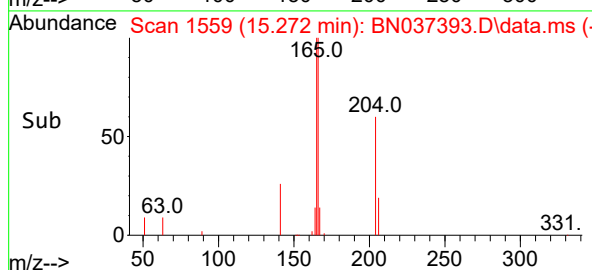
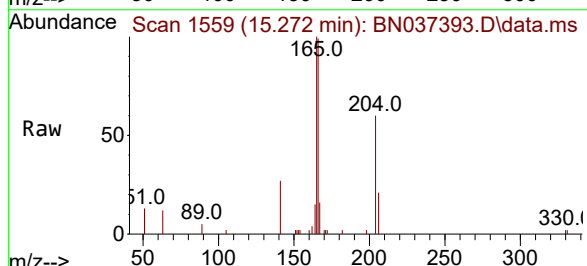
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

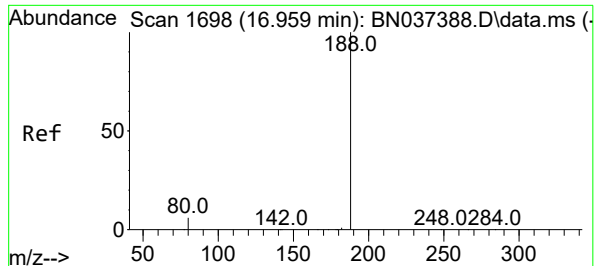
Tgt Ion:154 Resp: 3435
Ion Ratio Lower Upper
154 100
153 116.4 94.6 141.8
152 63.6 50.2 75.2



#18
Fluorene
Concen: 0.407 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:166 Resp: 4775
Ion Ratio Lower Upper
166 100
165 99.5 79.4 119.2
167 14.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

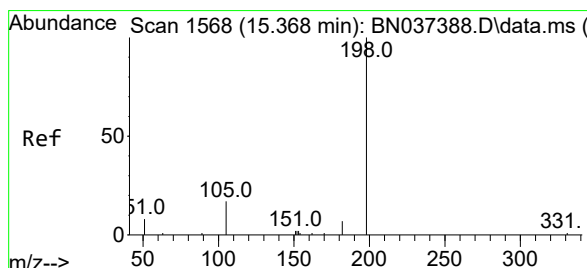
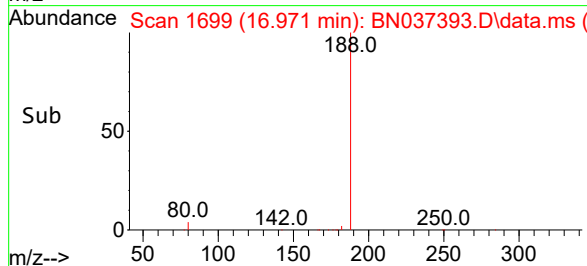
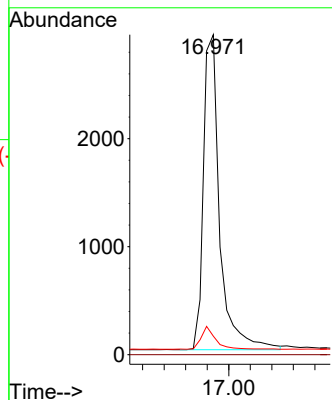
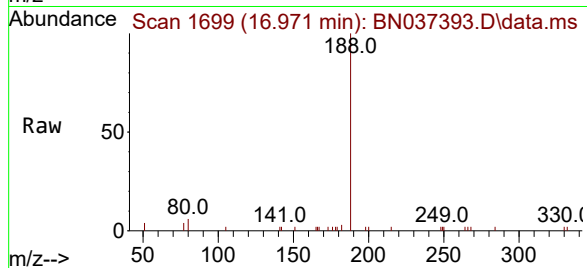
Tgt Ion:188 Resp: 6127

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.8 6.2 9.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.316 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

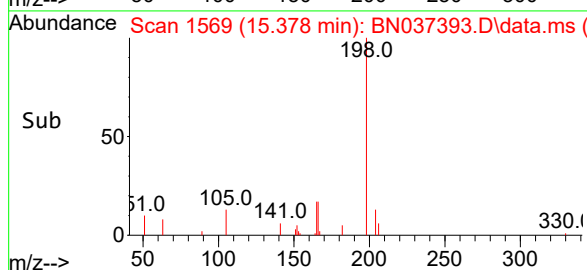
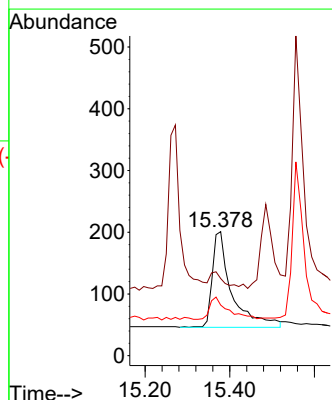
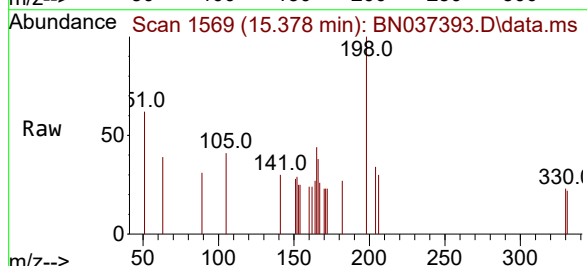
Tgt Ion:198 Resp: 497

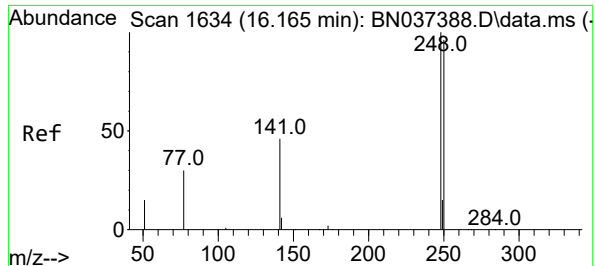
Ion Ratio Lower Upper

198 100

51 62.2 38.8 58.2#

105 40.8 29.8 44.6

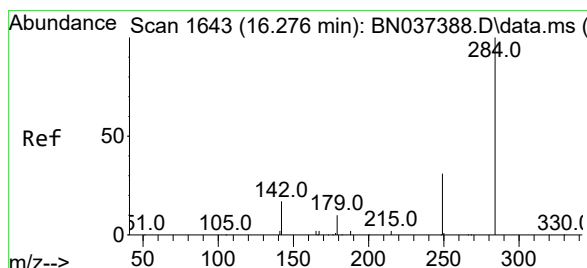
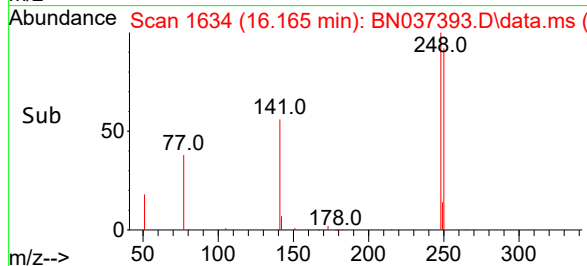
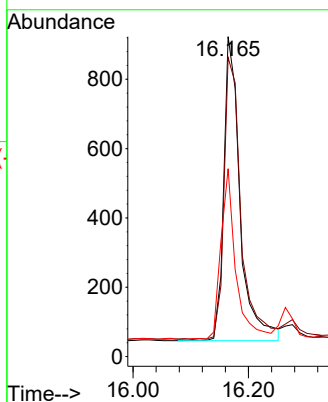
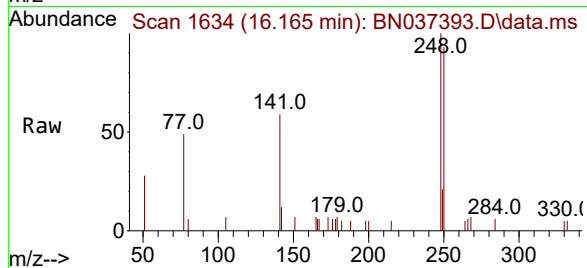




#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

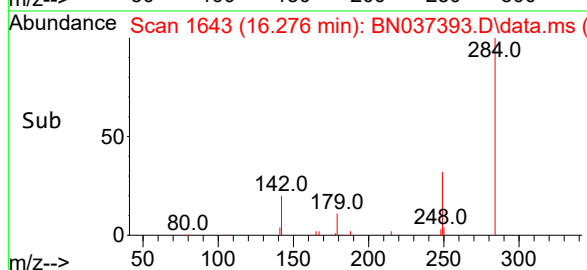
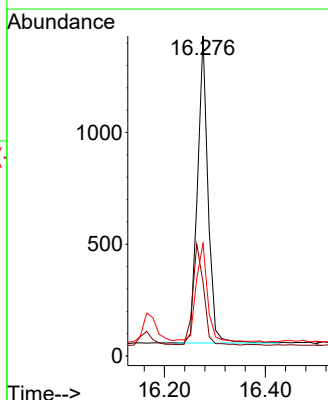
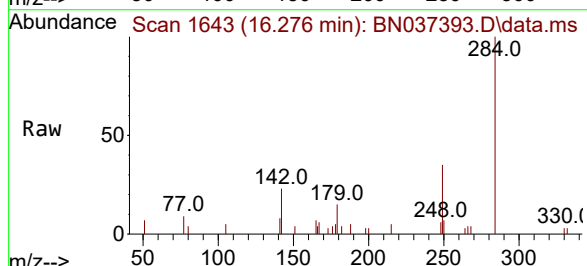
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

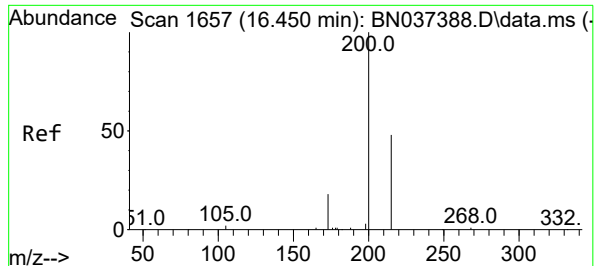
Tgt Ion:248 Resp: 1722
Ion Ratio Lower Upper
248 100
250 93.5 77.0 115.4
141 58.7 38.7 58.1#



#22
Hexachlorobenzene
Concen: 0.427 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:284 Resp: 1984
Ion Ratio Lower Upper
284 100
142 34.2 27.2 40.8
249 36.5 26.7 40.1

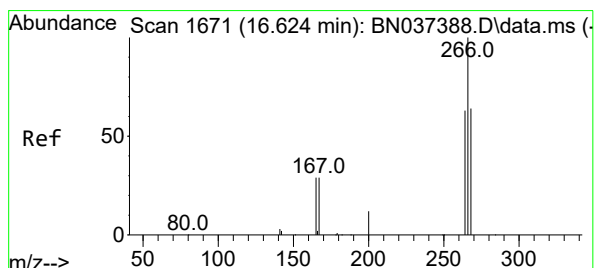
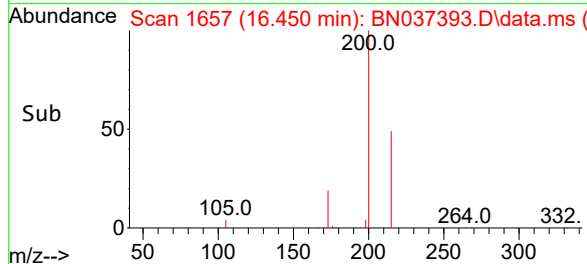
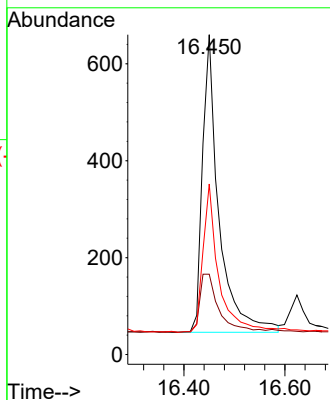
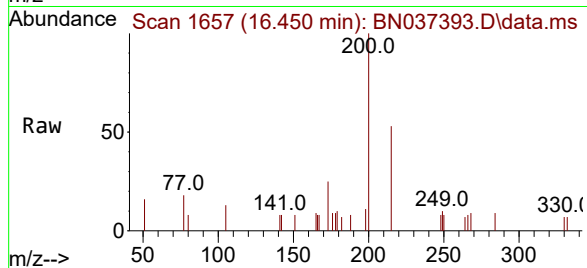




#23
Atrazine
Concen: 0.404 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

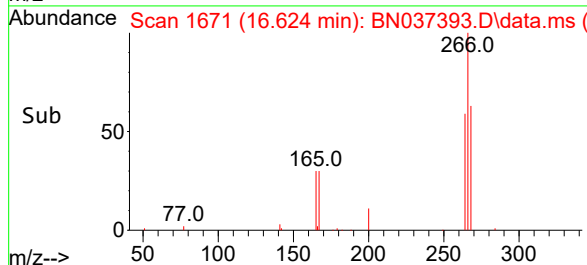
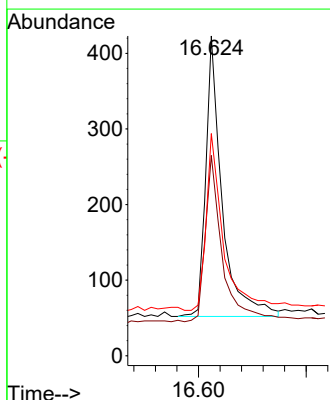
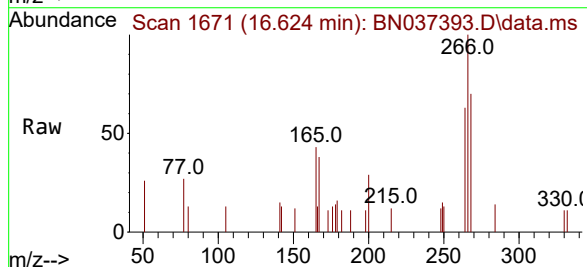
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

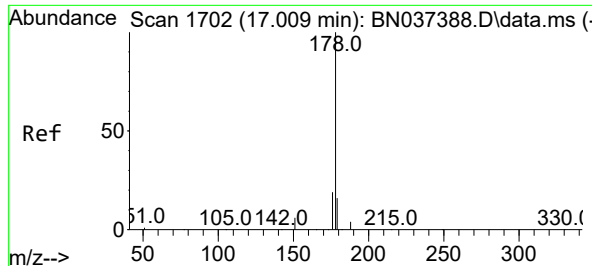
Tgt Ion:200 Resp: 1384
Ion Ratio Lower Upper
200 100
173 25.2 19.0 28.6
215 53.3 41.3 61.9



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:266 Resp: 775
Ion Ratio Lower Upper
266 100
264 64.0 49.2 73.8
268 68.8 54.2 81.4





#25

Phenanthrene

Concen: 0.410 ng

RT: 17.009 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

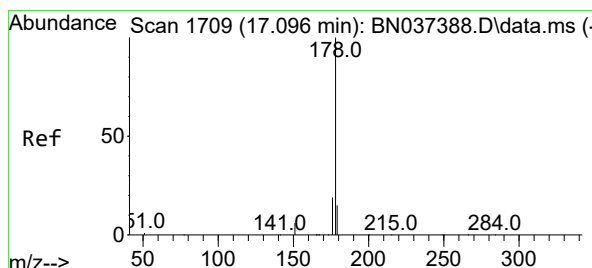
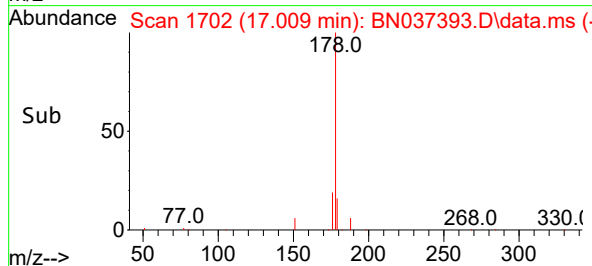
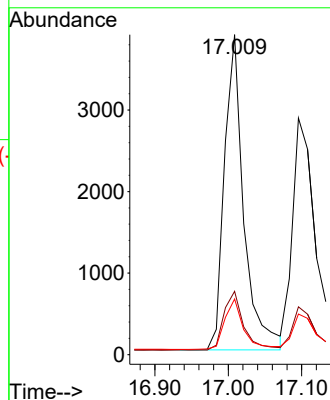
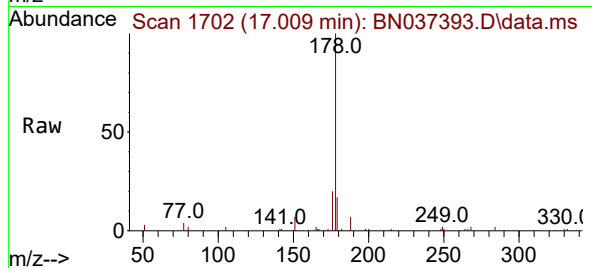
Tgt Ion:178 Resp: 7070

Ion Ratio Lower Upper

178 100

176 19.1 15.6 23.4

179 15.4 12.8 19.2



#26

Anthracene

Concen: 0.409 ng

RT: 17.095 min Scan# 1709

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

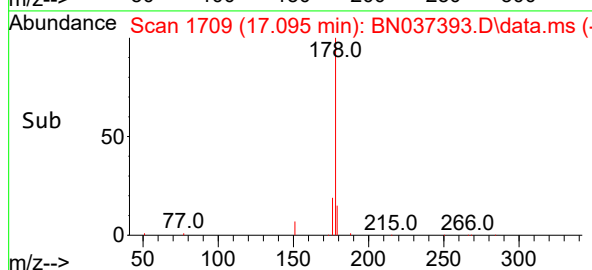
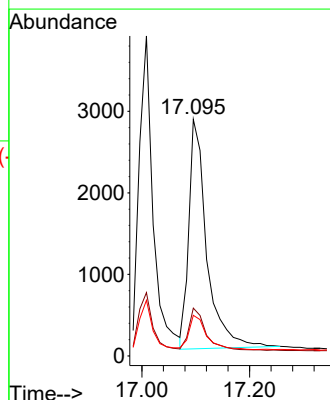
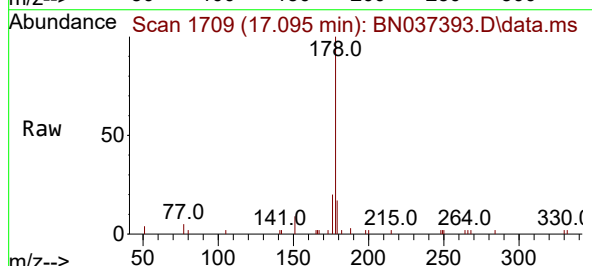
Tgt Ion:178 Resp: 6496

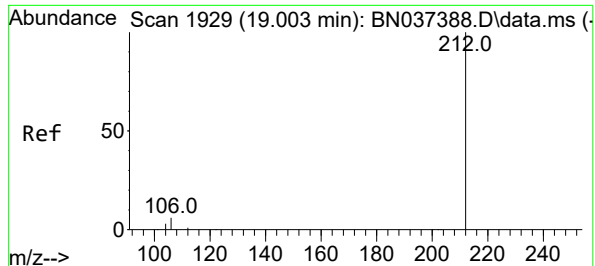
Ion Ratio Lower Upper

178 100

176 18.1 14.9 22.3

179 14.8 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.391 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

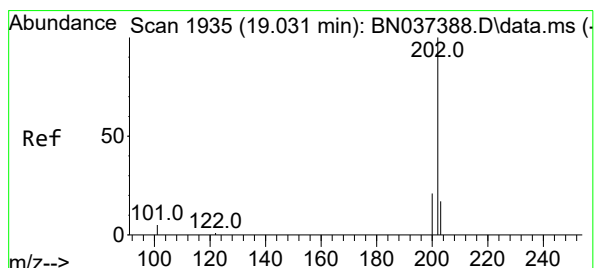
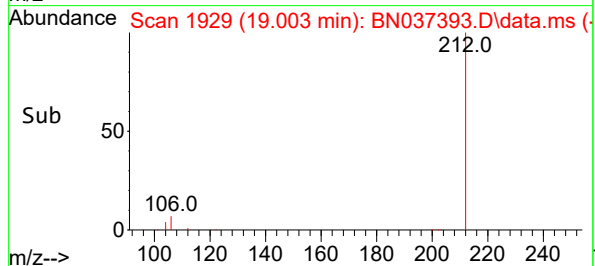
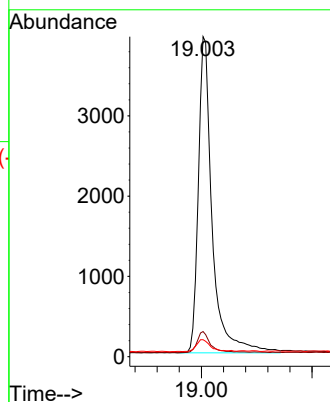
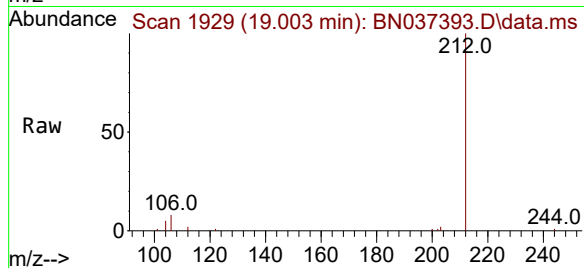
Tgt Ion:212 Resp: 6867

Ion Ratio Lower Upper

212 100

106 6.5 4.5 6.7

104 3.9 2.7 4.1



#28

Fluoranthene

Concen: 0.382 ng

RT: 19.035 min Scan# 1936

Delta R.T. 0.005 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

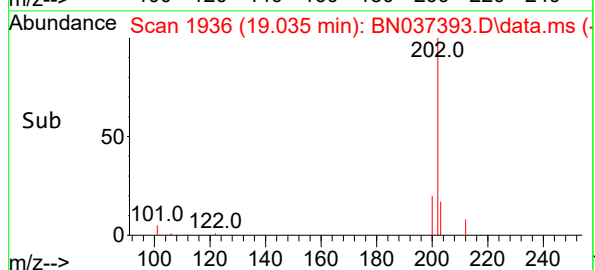
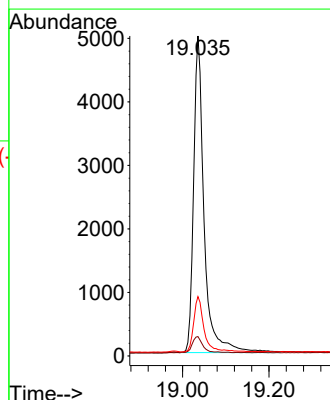
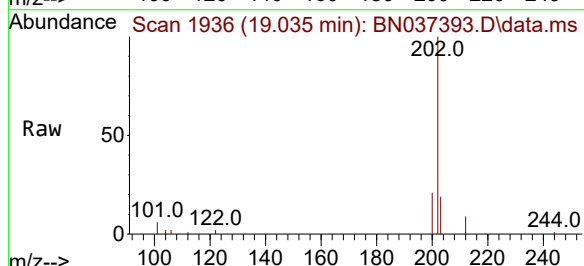
Tgt Ion:202 Resp: 8423

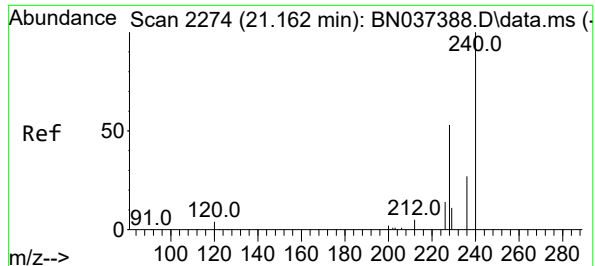
Ion Ratio Lower Upper

202 100

101 5.1 3.8 5.6

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

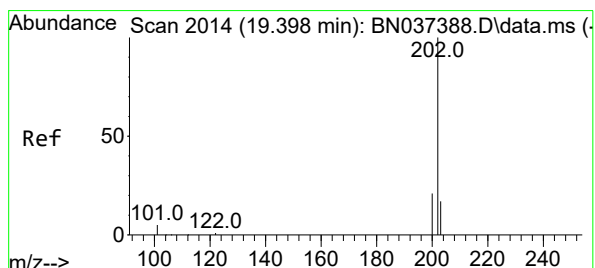
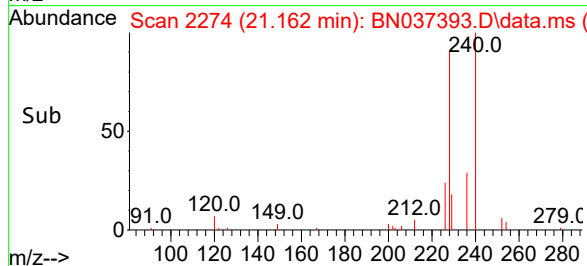
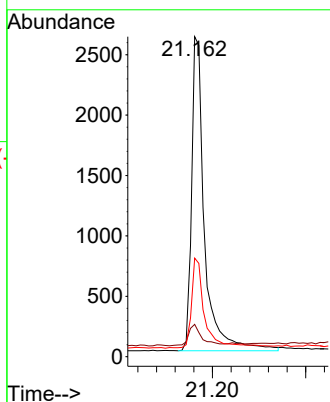
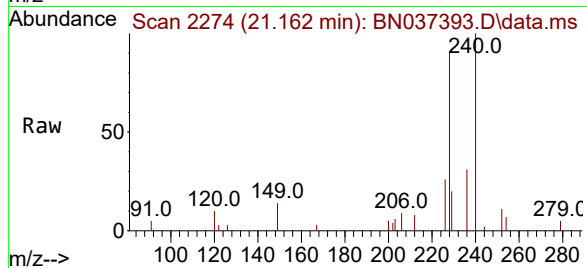
Tgt Ion:240 Resp: 5019

Ion Ratio Lower Upper

240 100

120 10.1 5.3 7.9#

236 30.8 22.7 34.1



#30

Pyrene

Concen: 0.440 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

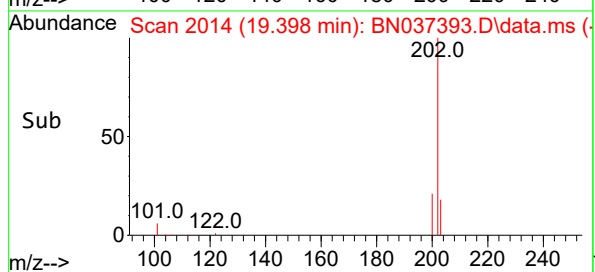
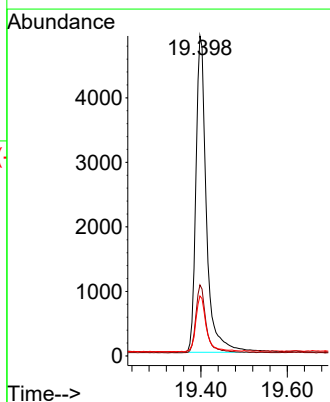
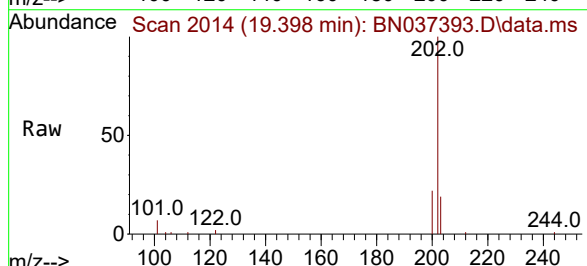
Tgt Ion:202 Resp: 8354

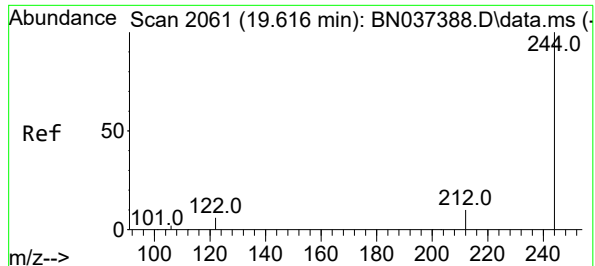
Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

203 17.8 14.2 21.2





#31

Terphenyl-d14

Concen: 0.464 ng

RT: 19.616 min Scan# 2061

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

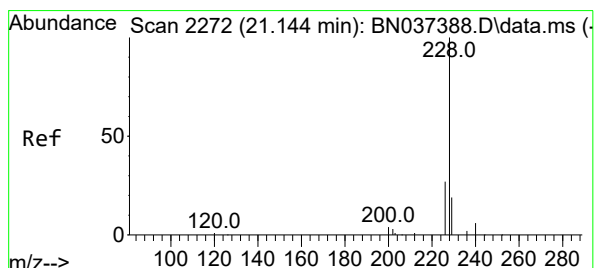
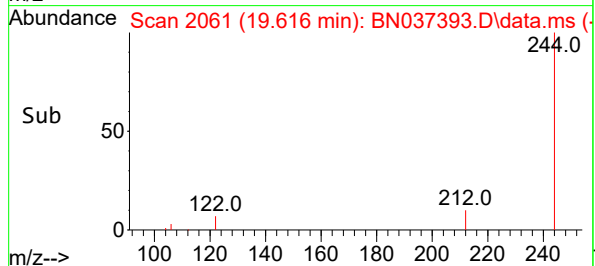
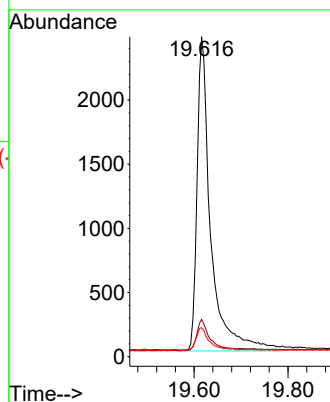
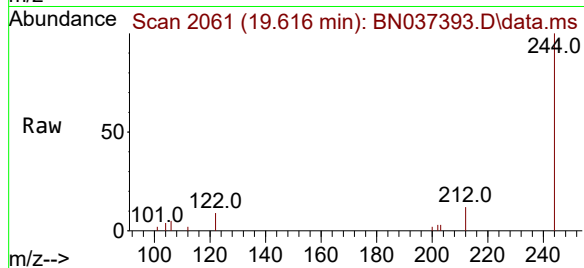
Tgt Ion:244 Resp: 4960

Ion Ratio Lower Upper

244 100

212 11.6 9.1 13.7

122 9.0 6.3 9.5



#32

Benzo(a)anthracene

Concen: 0.412 ng

RT: 21.153 min Scan# 2273

Delta R.T. 0.009 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

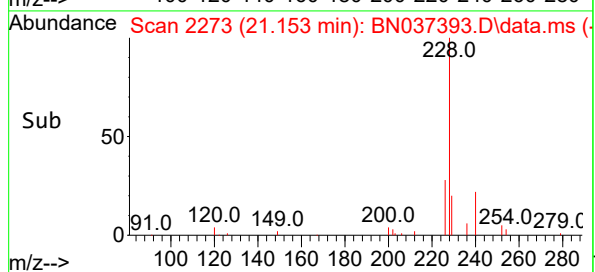
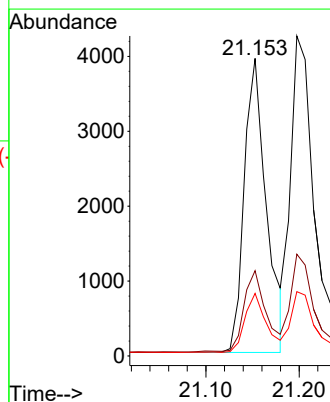
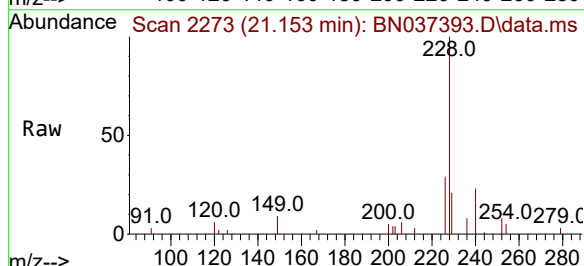
Tgt Ion:228 Resp: 6494

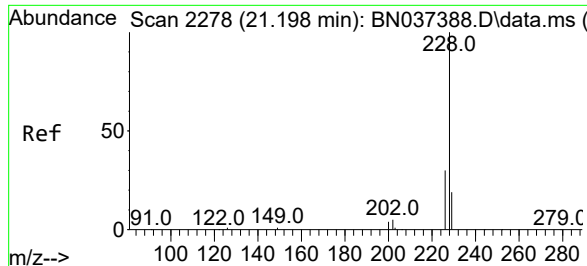
Ion Ratio Lower Upper

228 100

226 28.7 22.6 34.0

229 21.0 16.2 24.2





#33

Chrysene

Concen: 0.407 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

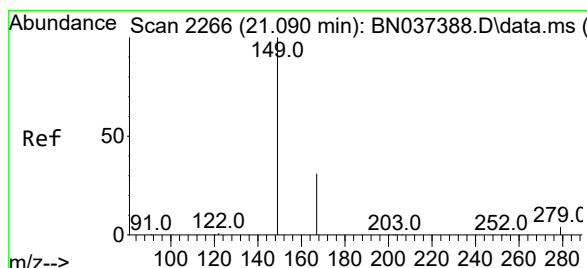
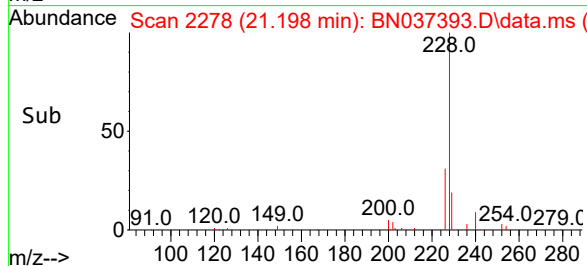
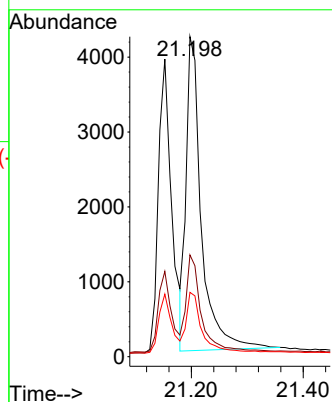
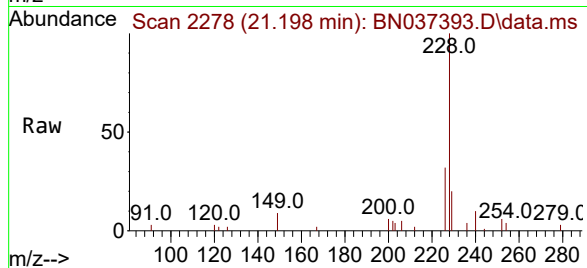
Tgt Ion:228 Resp: 7943

Ion Ratio Lower Upper

228 100

226 31.8 24.5 36.7

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.444 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

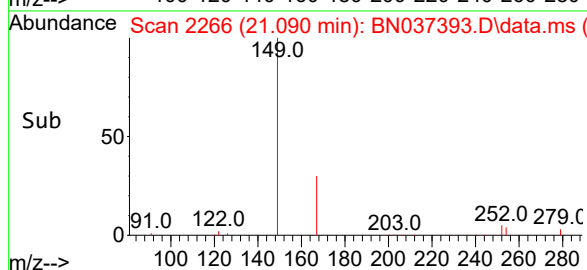
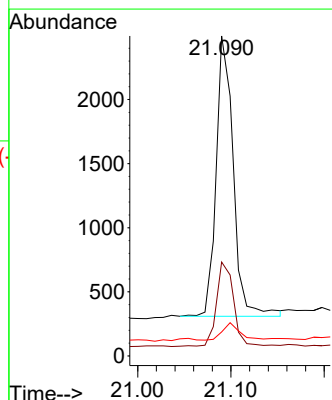
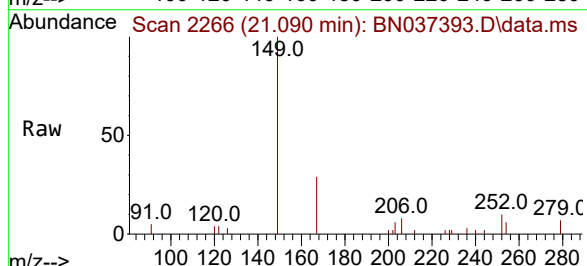
Tgt Ion:149 Resp: 2775

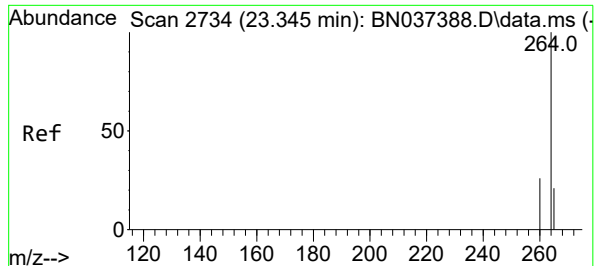
Ion Ratio Lower Upper

149 100

167 30.4 24.8 37.2

279 6.2 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.348 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037393.D

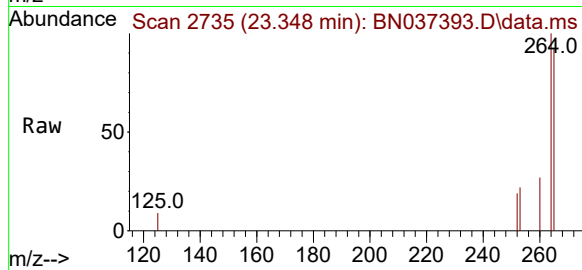
Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625



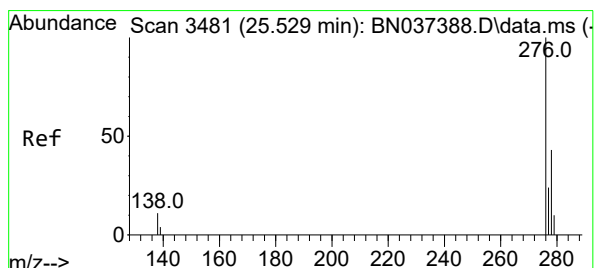
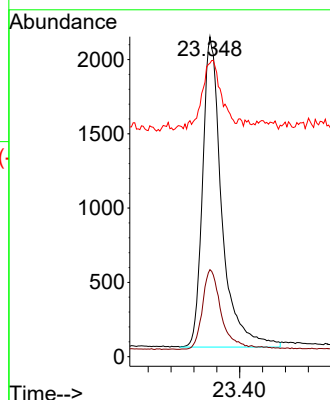
Tgt Ion:264 Resp: 4884

Ion Ratio Lower Upper

264 100

260 27.2 21.4 32.0

265 91.7 56.2 84.4#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.415 ng

RT: 25.532 min Scan# 3482

Delta R.T. 0.003 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

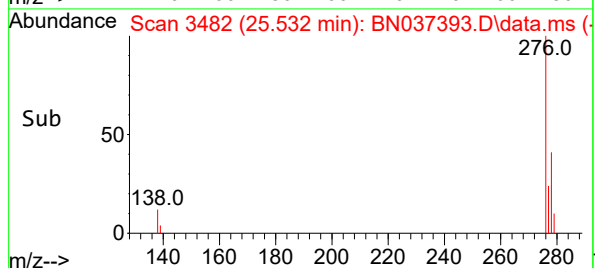
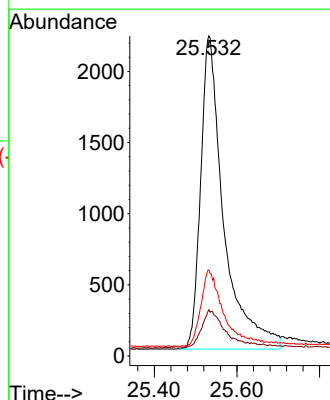
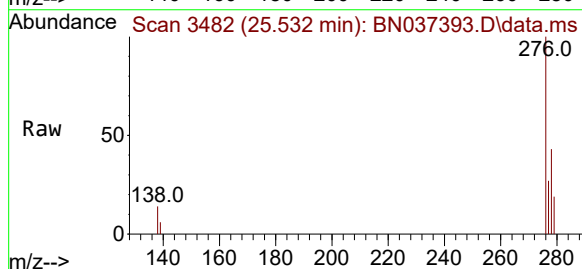
Tgt Ion:276 Resp: 8543

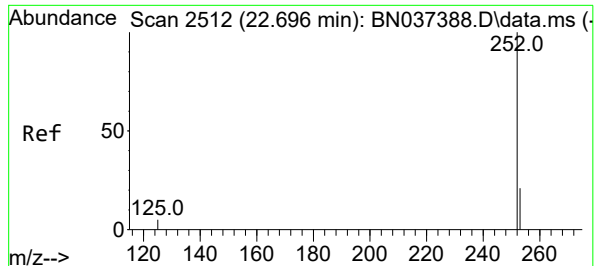
Ion Ratio Lower Upper

276 100

138 11.6 8.5 12.7

277 22.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.393 ng

RT: 22.699 min Scan# 2512

Delta R.T. 0.003 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

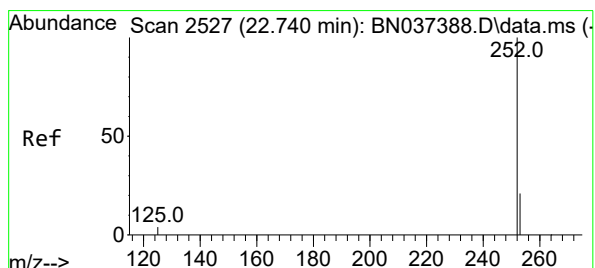
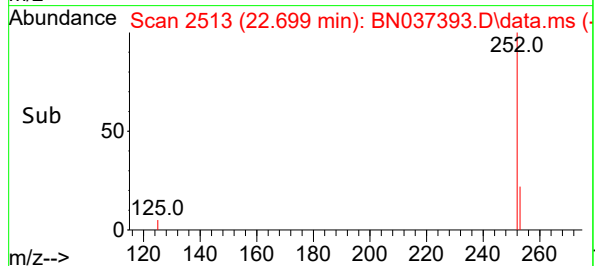
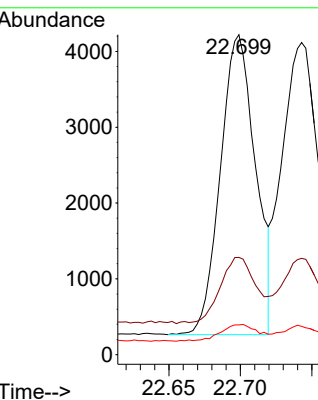
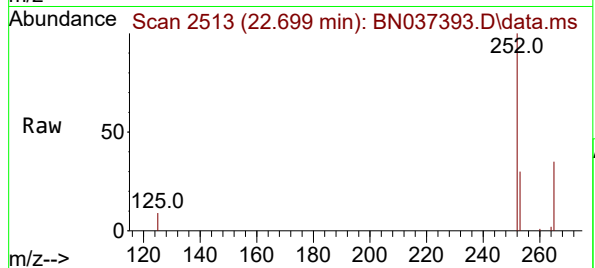
Tgt Ion:252 Resp: 6764

Ion Ratio Lower Upper

252 100

253 30.4 22.8 34.2

125 9.3 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.441 ng

RT: 22.743 min Scan# 2528

Delta R.T. 0.003 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

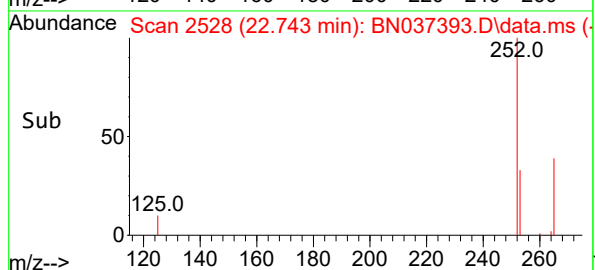
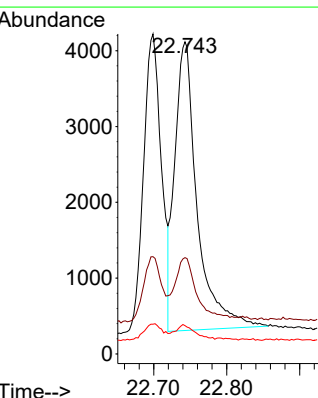
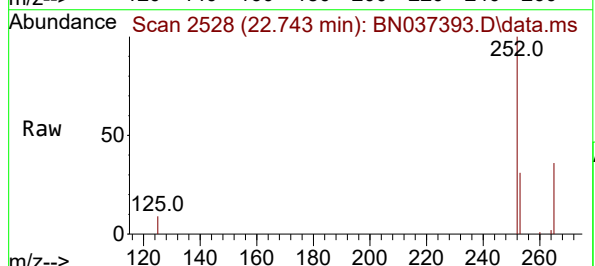
Tgt Ion:252 Resp: 8109

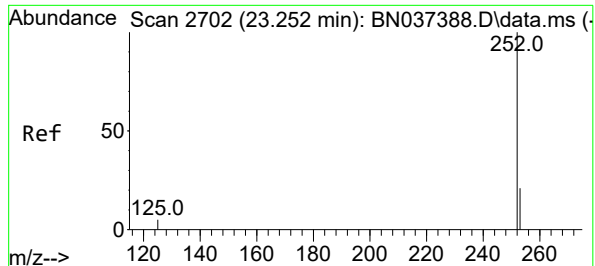
Ion Ratio Lower Upper

252 100

253 30.8 23.2 34.8

125 9.1 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 0.432 ng

RT: 23.254 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

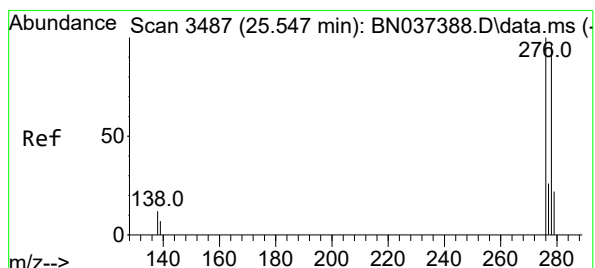
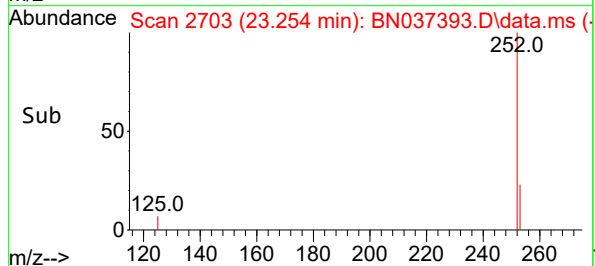
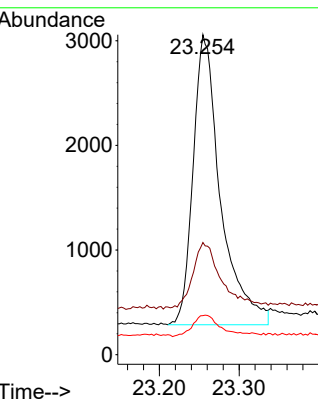
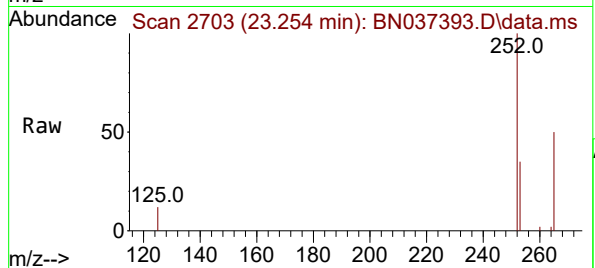
Tgt Ion:252 Resp: 6621

Ion Ratio Lower Upper

252 100

253 35.1 25.6 38.4

125 12.2 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.407 ng

RT: 25.552 min Scan# 3489

Delta R.T. 0.006 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

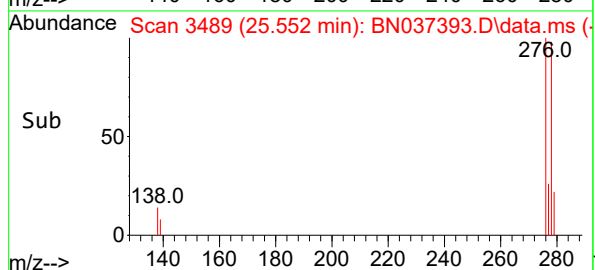
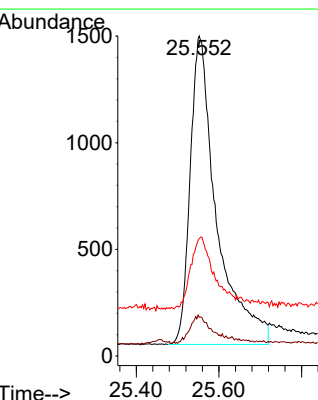
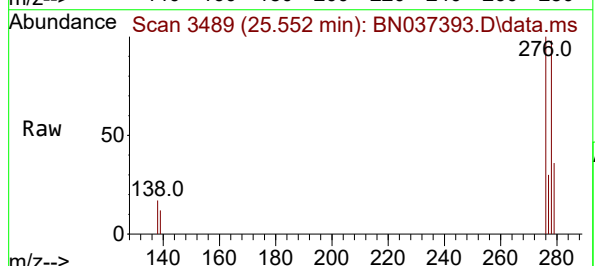
Tgt Ion:278 Resp: 6443

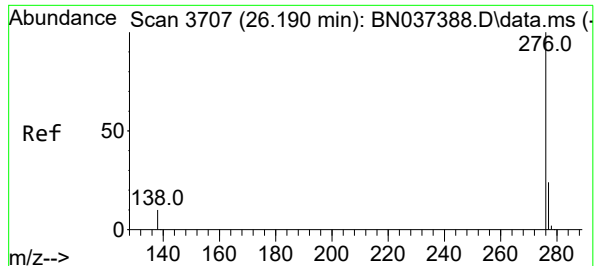
Ion Ratio Lower Upper

278 100

139 12.1 8.5 12.7

279 36.6 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.397 ng

RT: 26.193 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037393.D

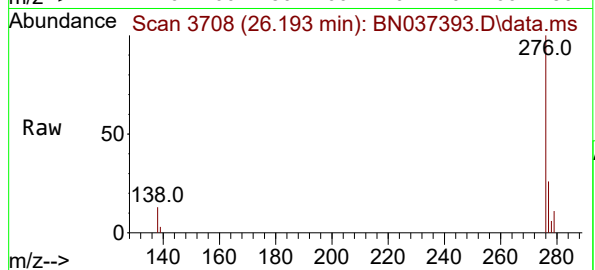
Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625



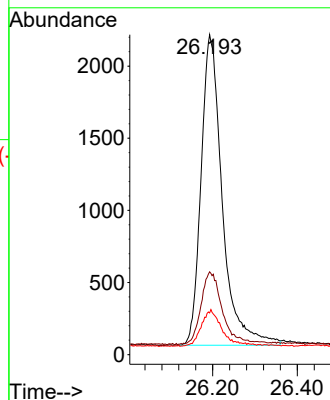
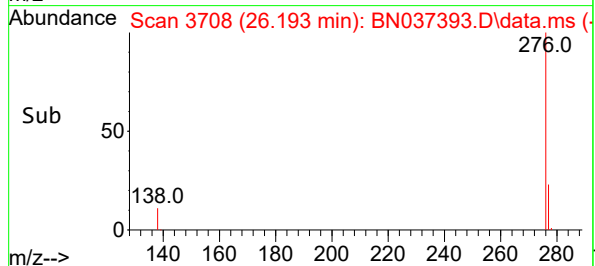
Tgt Ion:276 Resp: 7497

Ion Ratio Lower Upper

276 100

277 25.9 21.0 31.4

138 13.0 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	103	0.00
2	1,4-Dioxane	0.379	0.468	-23.5	130	0.00
3	n-Nitrosodimethylamine	0.375	0.390	-4.0	107	0.00
4 S	2-Fluorophenol	0.771	0.725	6.0	92	0.00
5 S	Phenol-d6	0.799	0.746	6.6	94	0.00
6	bis(2-Chloroethyl)ether	0.711	0.818	-15.0	117	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8 S	Nitrobenzene-d5	0.321	0.340	-5.9	116	0.00
9	Naphthalene	1.030	1.070	-3.9	114	0.00
10	Hexachlorobutadiene	0.409	0.421	-2.9	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.619	0.652	-5.3	120	0.00
12	2-Methylnaphthalene	0.709	0.651	8.2	101	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.235	0.203	13.6	85	0.00
15 S	2-Fluorobiphenyl	1.727	1.959	-13.4	114	0.00
16	Acenaphthylene	1.659	1.857	-11.9	119	0.00
17	Acenaphthene	1.083	1.121	-3.5	108	0.00
18	Fluorene	1.530	1.558	-1.8	106	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	98	0.01
20	4,6-Dinitro-2-methylphenol	0.103	0.081	21.4	93	0.01
21	4-Bromophenyl-phenylether	0.282	0.281	0.4	102	0.00
22	Hexachlorobenzene	0.303	0.324	-6.9	104	0.00
23	Atrazine	0.224	0.226	-0.9	104	0.00
24	Pentachlorophenol	0.164	0.126	23.2	80	0.00
25	Phenanthrene	1.127	1.154	-2.4	104	0.00
26	Anthracene	1.036	1.060	-2.3	107	0.00
27 SURR	Fluoranthene-d10	1.146	1.121	2.2	103	0.00
28	Fluoranthene	1.439	1.375	4.4	98	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	89	0.00
30	Pyrene	1.514	1.664	-9.9	97	0.00
31 S	Terphenyl-d14	0.853	0.988	-15.8	102	0.00
32	Benzo(a)anthracene	1.257	1.294	-2.9	99	0.00
33	Chrysene	1.556	1.583	-1.7	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.498	0.553	-11.0	98	0.00
35 I	Perylene-d12	1.000	1.000	0.0	82	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.749	-3.7	91	0.00
37	Benzo(b)fluoranthene	1.410	1.385	1.8	86	0.00
38	Benzo(k)fluoranthene	1.507	1.660	-10.2	93	0.00
39 C	Benzo(a)pyrene	1.254	1.356	-8.1	94	0.00
40	Dibenzo(a,h)anthracene	1.296	1.319	-1.8	89	0.00
41	Benzo(g,h,i)perylene	1.548	1.535	0.8	85	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	103	0.00
2	1,4-Dioxane	0.400	0.493	-23.2	130	0.00
3	n-Nitrosodimethylamine	0.400	0.417	-4.2	107	0.00
4 S	2-Fluorophenol	0.400	0.376	6.0	92	0.00
5 S	Phenol-d6	0.400	0.373	6.8	94	0.00
6	bis(2-Chloroethyl)ether	0.400	0.460	-15.0	117	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8 S	Nitrobenzene-d5	0.400	0.425	-6.2	116	0.00
9	Naphthalene	0.400	0.416	-4.0	114	0.00
10	Hexachlorobutadiene	0.400	0.412	-3.0	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.421	-5.2	120	0.00
12	2-Methylnaphthalene	0.400	0.367	8.3	101	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.400	0.347	13.3	85	0.00
15 S	2-Fluorobiphenyl	0.400	0.454	-13.5	114	0.00
16	Acenaphthylene	0.400	0.448	-12.0	119	0.00
17	Acenaphthene	0.400	0.414	-3.5	108	0.00
18	Fluorene	0.400	0.407	-1.7	106	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	98	0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.316	21.0	93	0.01
21	4-Bromophenyl-phenylether	0.400	0.398	0.5	102	0.00
22	Hexachlorobenzene	0.400	0.427	-6.7	104	0.00
23	Atrazine	0.400	0.404	-1.0	104	0.00
24	Pentachlorophenol	0.400	0.309	22.8	80	0.00
25	Phenanthrene	0.400	0.410	-2.5	104	0.00
26	Anthracene	0.400	0.409	-2.2	107	0.00
27 SURR	Fluoranthene-d10	0.400	0.391	2.3	103	0.00
28	Fluoranthene	0.400	0.382	4.5	98	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	89	0.00
30	Pyrene	0.400	0.440	-10.0	97	0.00
31 S	Terphenyl-d14	0.400	0.464	-16.0	102	0.00
32	Benzo(a)anthracene	0.400	0.412	-3.0	99	0.00
33	Chrysene	0.400	0.407	-1.7	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.444	-11.0	98	0.00
35 I	Perylene-d12	0.400	0.400	0.0	82	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.415	-3.7	91	0.00
37	Benzo(b)fluoranthene	0.400	0.393	1.8	86	0.00
38	Benzo(k)fluoranthene	0.400	0.441	-10.2	93	0.00
39 C	Benzo(a)pyrene	0.400	0.432	-8.0	94	0.00
40	Dibenzo(a,h)anthracene	0.400	0.407	-1.7	89	0.00
41	Benzo(g,h,i)perylene	0.400	0.397	0.8	85	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.: Q2439 SAS No.: Q2439 SDG No.: Q2439

Instrument ID: BNA_N Calibration Date/Time: 07/02/2025 14:04

Lab File ID: BN037425.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.585		-5.5	20.0
Fluoranthene-d10	1.146	1.072		-6.5	20.0
2-Fluorophenol	0.771	0.839		8.8	20.0
Phenol-d6	0.799	0.809		1.3	20.0
Nitrobenzene-d5	0.321	0.308		-4.1	20.0
2-Fluorobiphenyl	1.727	1.734		0.4	20.0
2,4,6-Tribromophenol	0.235	0.224		-4.7	20.0
Terphenyl-d14	0.853	0.850		-0.4	20.0
1,4-Dioxane	0.379	0.395		4.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
 Data File : BN037425.D
 Acq On : 02 Jul 2025 14:04
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jul 02 15:25:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

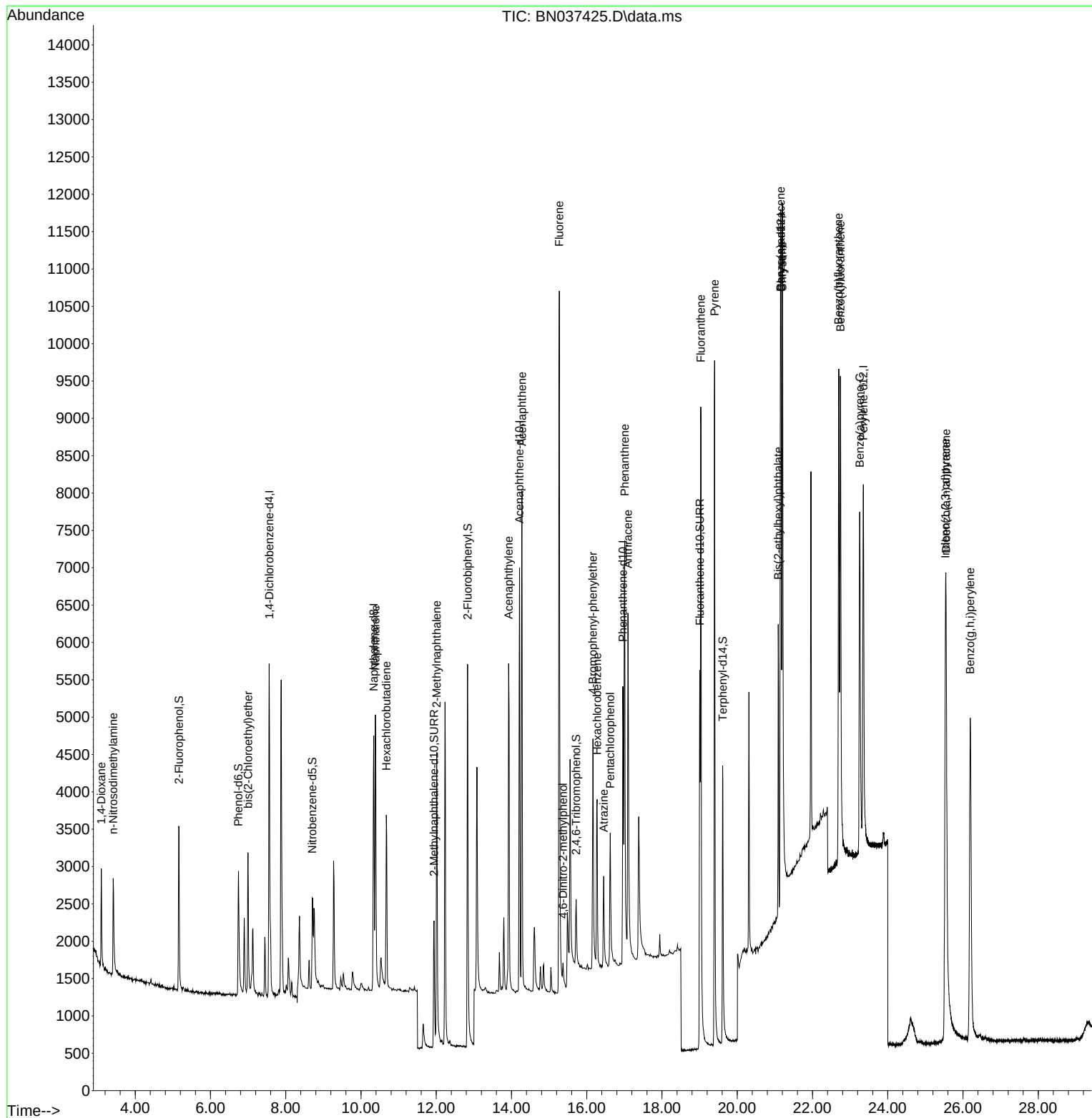
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	2413	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	5075	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	3293	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	6783	0.400	ng	0.00
29) Chrysene-d12	21.162	240	6416	0.400	ng	# 0.00
35) Perylene-d12	23.351	264	6880	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	2025	0.435	ng	0.00
5) Phenol-d6	6.744	99	1953	0.405	ng	0.00
8) Nitrobenzene-d5	8.707	82	1565	0.385	ng	-0.01
11) 2-Methylnaphthalene-d10	11.940	152	2967	0.378	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	737	0.382	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	5710	0.402	ng	0.00
27) Fluoranthene-d10	19.003	212	7271	0.374	ng	0.00
31) Terphenyl-d14	19.612	244	5456	0.399	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.097	88	953	0.416	ng	94
3) n-Nitrosodimethylamine	3.415	42	881	0.390	ng	87
6) bis(2-Chloroethyl)ether	6.997	93	1697	0.396	ng	99
9) Naphthalene	10.383	128	5115	0.392	ng	99
10) Hexachlorobutadiene	10.671	225	2063	0.398	ng	# 99
12) 2-Methylnaphthalene	12.011	142	3461	0.385	ng	98
16) Acenaphthylene	13.925	152	5342	0.391	ng	99
17) Acenaphthene	14.277	154	3427	0.384	ng	99
18) Fluorene	15.272	166	4710	0.374	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	441	0.253	ng	# 79
21) 4-Bromophenyl-phenylether	16.165	248	1793	0.375	ng	100
22) Hexachlorobenzene	16.276	284	2027	0.394	ng	99
23) Atrazine	16.450	200	1418	0.374	ng	97
24) Pentachlorophenol	16.624	266	1211	0.436	ng	97
25) Phenanthrene	17.009	178	7236	0.379	ng	99
26) Anthracene	17.096	178	6598	0.376	ng	100
28) Fluoranthene	19.031	202	9402	0.385	ng	99
30) Pyrene	19.398	202	9586	0.395	ng	100
32) Benzo(a)anthracene	21.153	228	7891	0.391	ng	99
33) Chrysene	21.198	228	9635	0.386	ng	98
34) Bis(2-ethylhexyl)phtha...	21.090	149	3522	0.441	ng	100
36) Indeno(1,2,3-cd)pyrene	25.535	276	10959	0.378	ng	# 94
37) Benzo(b)fluoranthene	22.696	252	9135	0.377	ng	98
38) Benzo(k)fluoranthene	22.743	252	10022	0.387	ng	97
39) Benzo(a)pyrene	23.255	252	8377	0.388	ng	# 94
40) Dibenzo(a,h)anthracene	25.550	278	7428	0.333	ng	99
41) Benzo(g,h,i)perylene	26.193	276	10322	0.388	ng	99

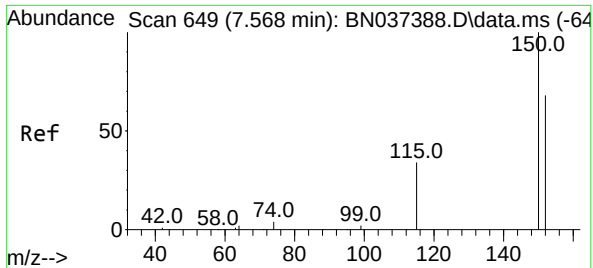
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037425.D
Acq On : 02 Jul 2025 14:04
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jul 02 15:25:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

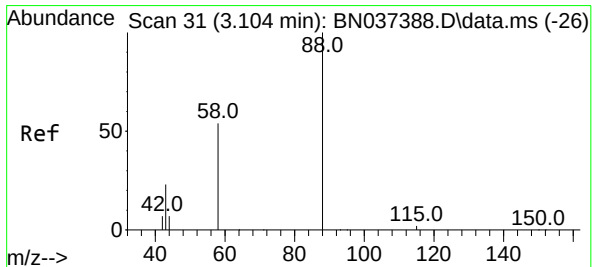
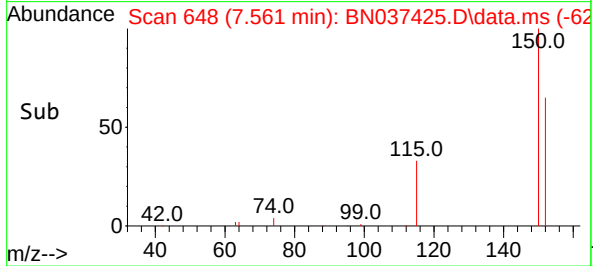
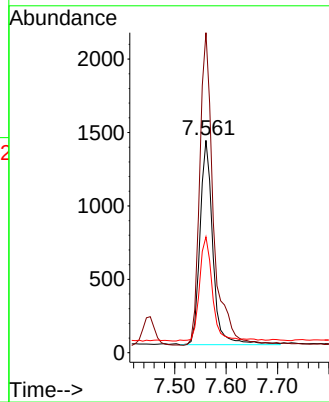
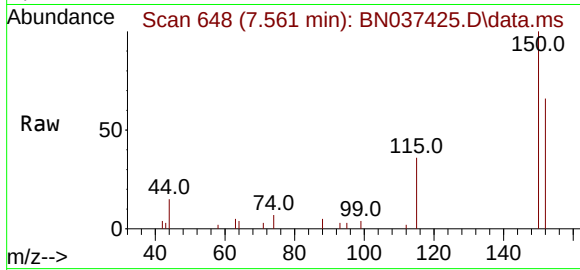




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

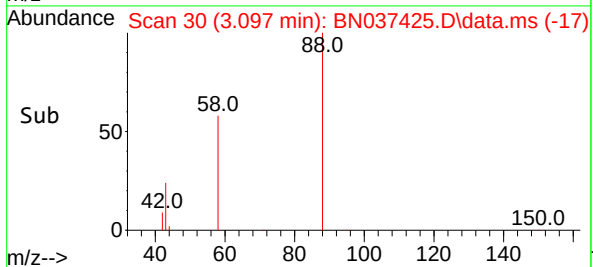
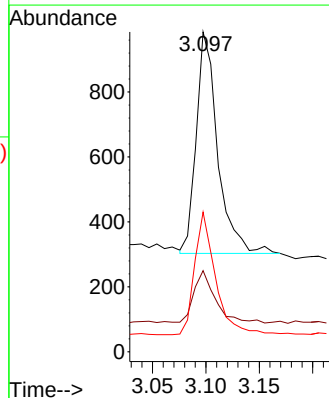
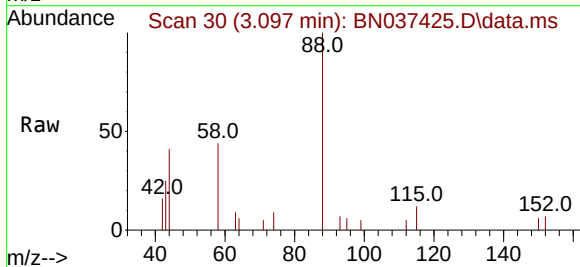
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

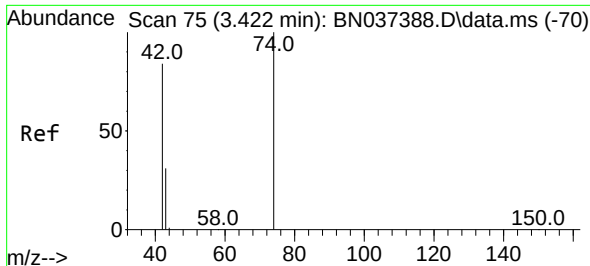
Tgt Ion:152 Resp: 2413
Ion Ratio Lower Upper
152 100
150 150.7 116.2 174.2
115 54.5 42.9 64.3



#2
1,4-Dioxane
Concen: 0.416 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion: 88 Resp: 953
Ion Ratio Lower Upper
88 100
43 22.5 21.6 32.4
58 53.9 45.9 68.9

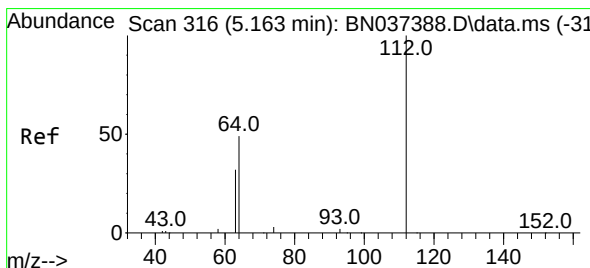
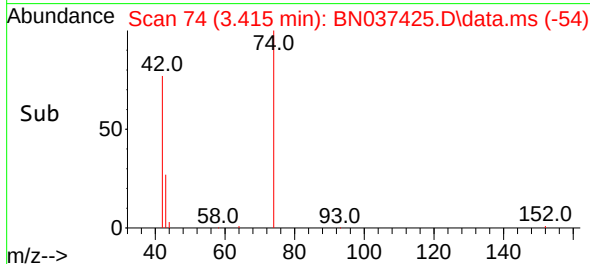
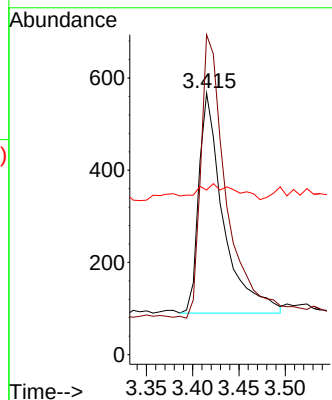
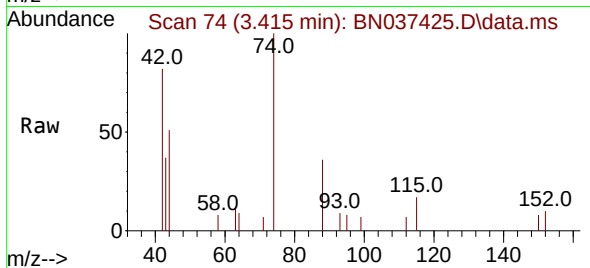




#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

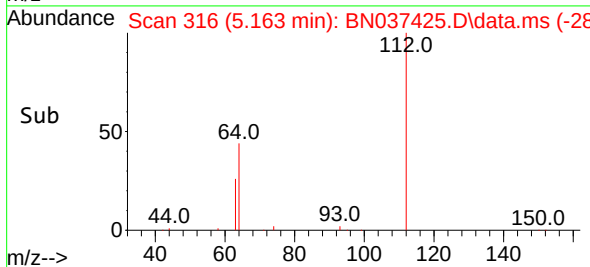
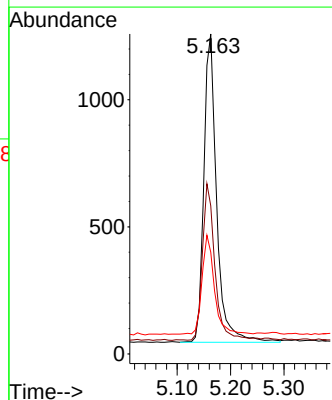
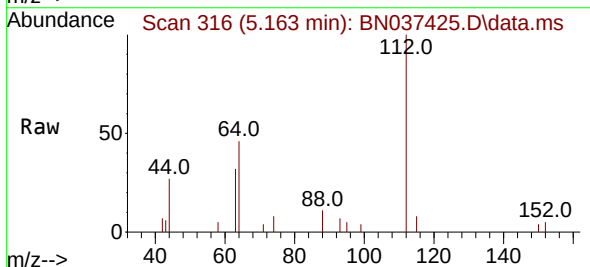
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

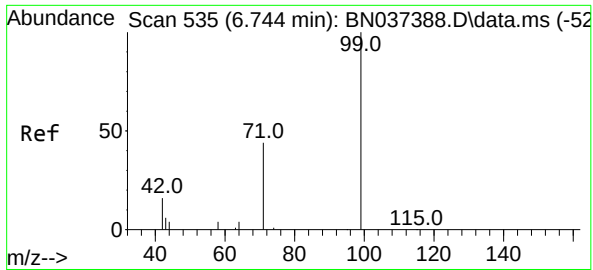
Tgt Ion: 42 Resp: 881
Ion Ratio Lower Upper
42 100
74 137.9 97.8 146.8
44 10.8 8.7 13.1



#4
2-Fluorophenol
Concen: 0.435 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion: 112 Resp: 2025
Ion Ratio Lower Upper
112 100
64 49.8 40.3 60.5
63 30.8 26.1 39.1

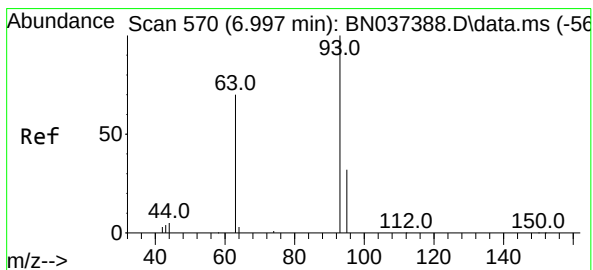
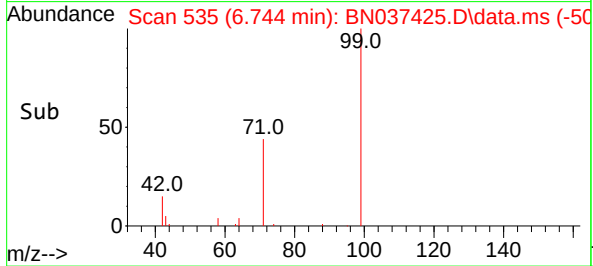
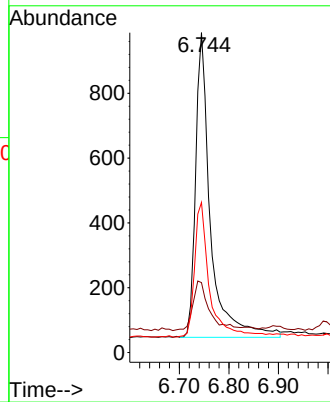
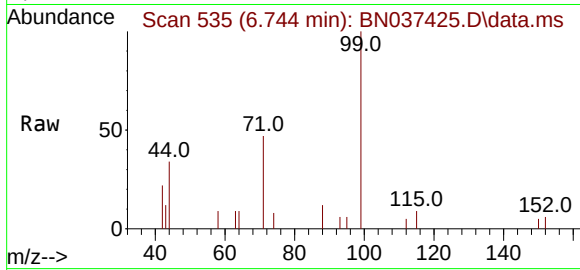




#5
Phenol-d6
Concen: 0.405 ng
RT: 6.744 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

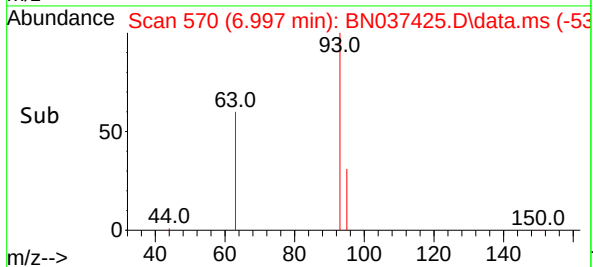
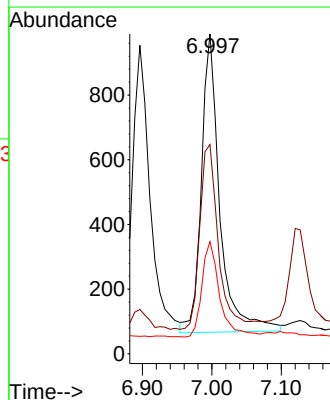
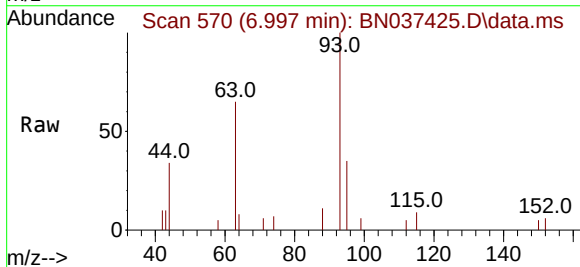
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

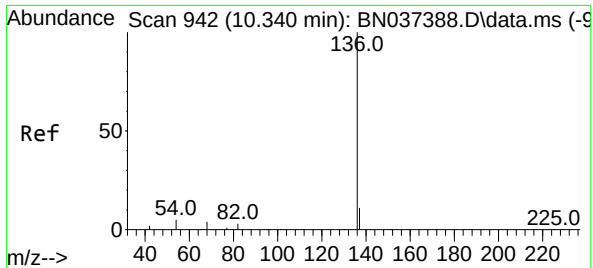
Tgt Ion:	99	Resp:	1953
Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.6	23.4
71	44.3	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.396 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:	93	Resp:	1697
Ion	Ratio	Lower	Upper
93	100		
63	62.3	49.6	74.4
95	31.1	23.9	35.9

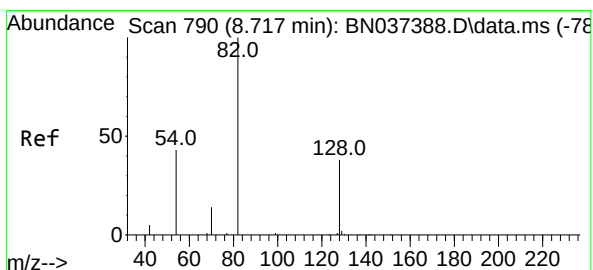
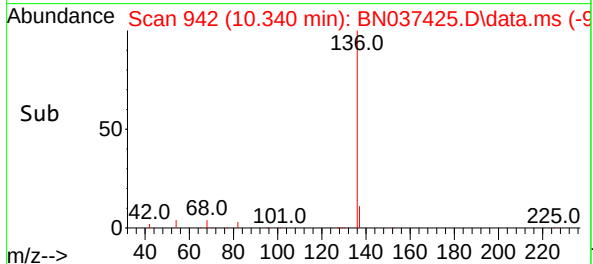
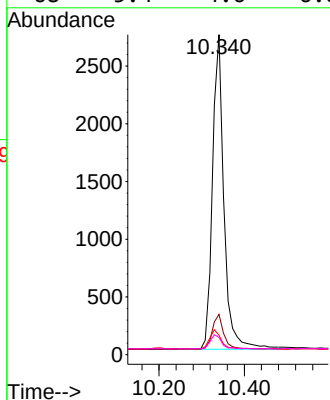
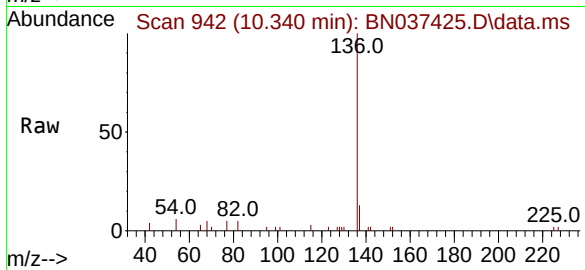




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

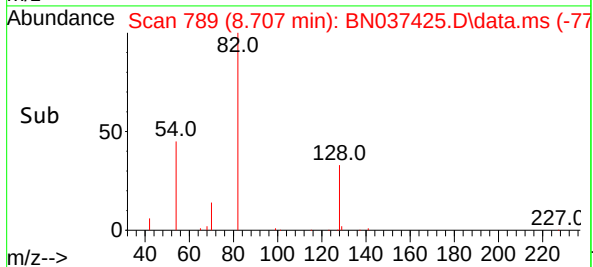
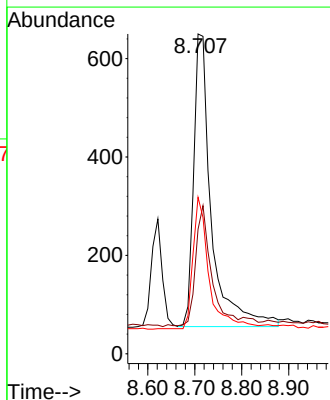
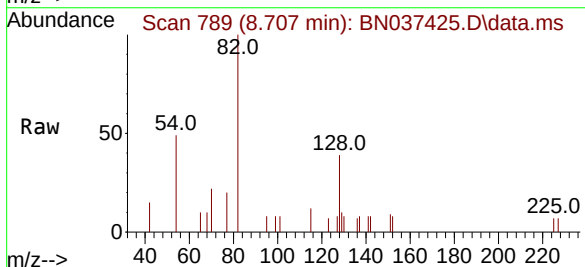
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

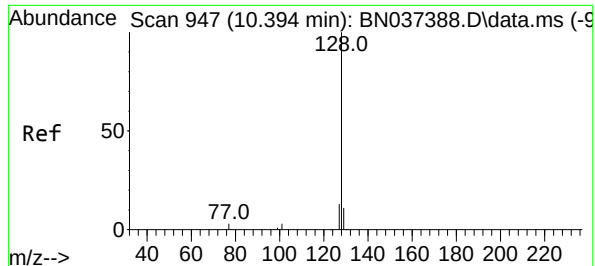
Tgt Ion:	136	Resp:	5075
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.4	15.6
54	6.1	5.6	8.4
68	5.4	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:	82	Resp:	1565
Ion	Ratio	Lower	Upper
82	100		
128	38.9	34.0	51.0
54	48.9	37.7	56.5

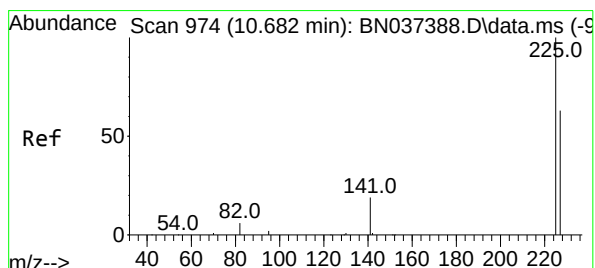
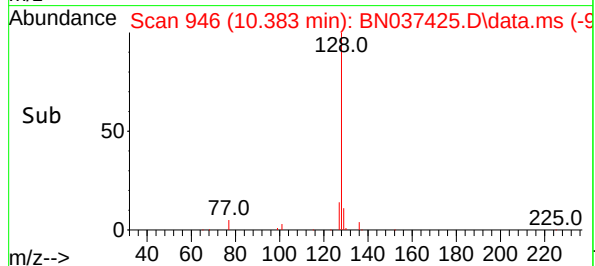
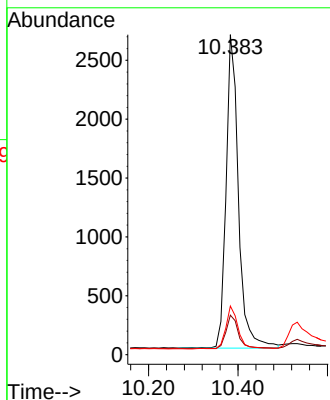
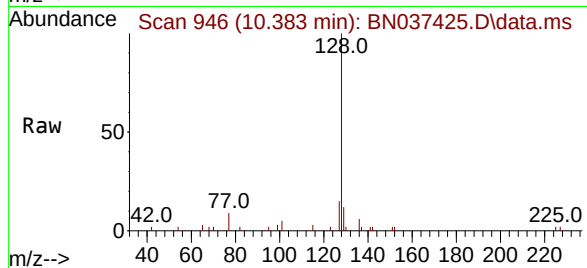




#9
Naphthalene
Concen: 0.392 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

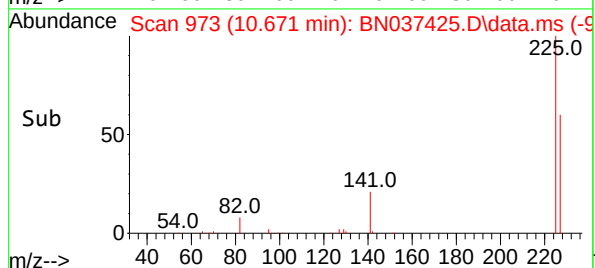
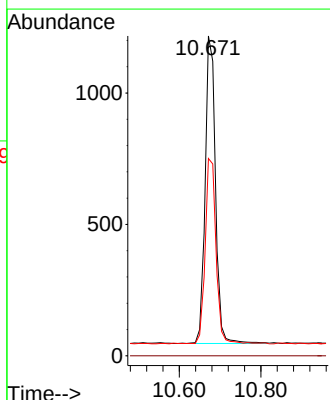
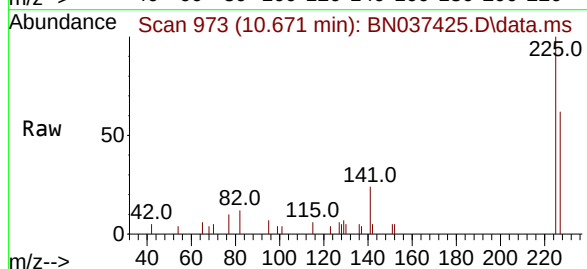
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

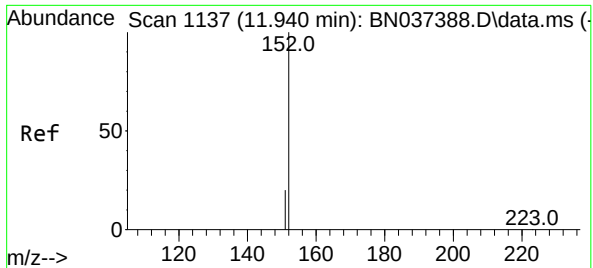
Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.3	10.4	15.6
127	15.2	12.2	18.4



#10
Hexachlorobutadiene
Concen: 0.398 ng
RT: 10.671 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	49.9	74.9

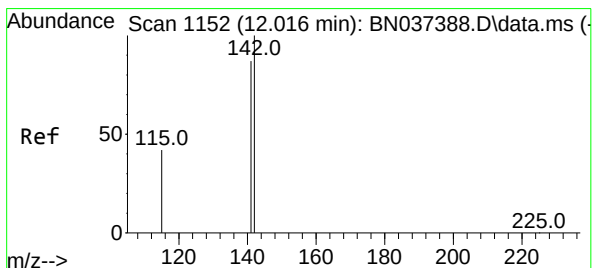
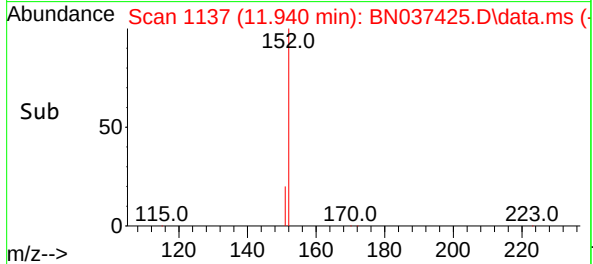
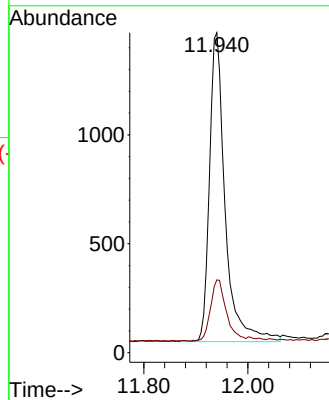
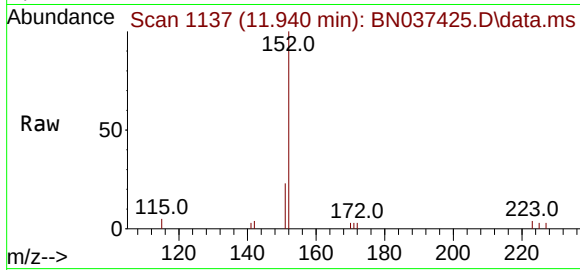




#11
2-Methylnaphthalene-d10
Concen: 0.378 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

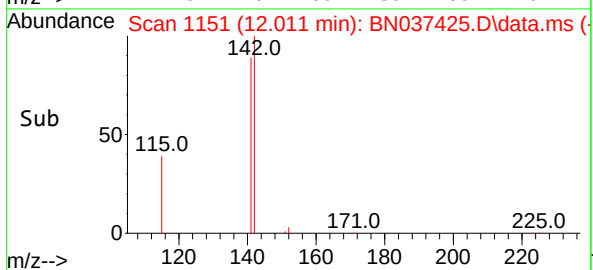
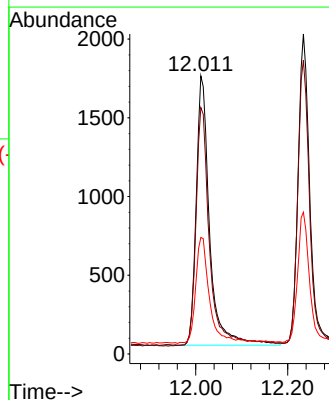
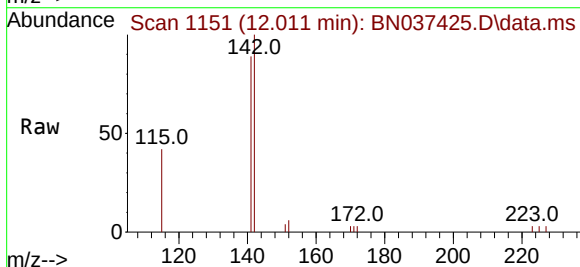
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

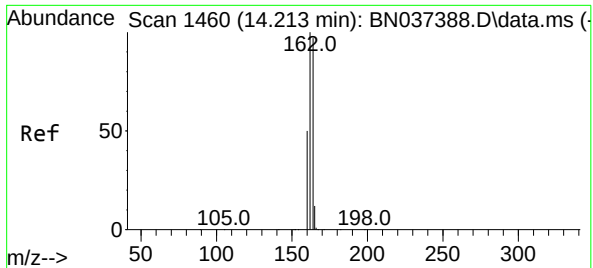
Tgt Ion:152 Resp: 2967
Ion Ratio Lower Upper
152 100
151 20.0 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:142 Resp: 3461
Ion Ratio Lower Upper
142 100
141 88.6 70.1 105.1
115 41.9 35.8 53.6

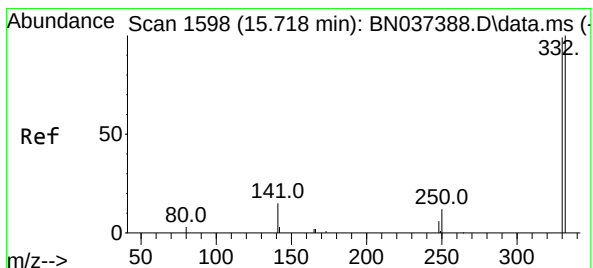
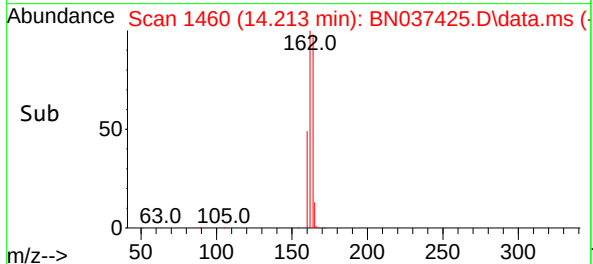
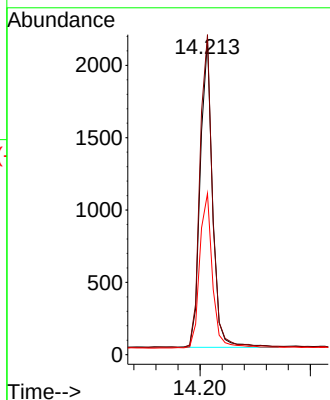
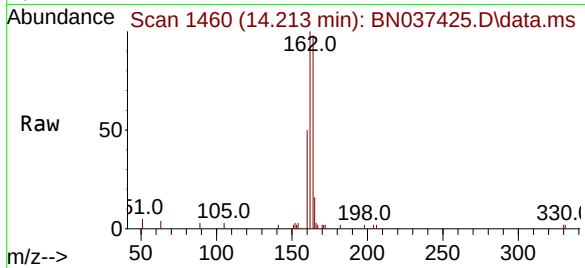




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

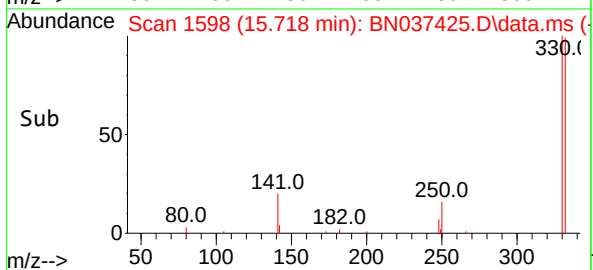
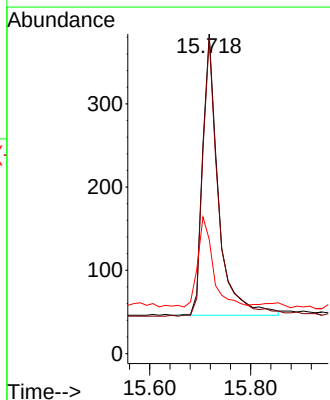
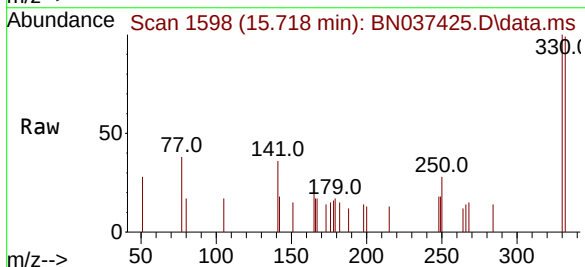
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

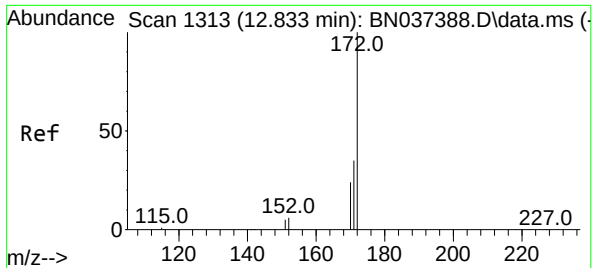
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.7	82.6	123.8
160	51.2	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.6	77.8	116.8
141	29.6	24.0	36.0

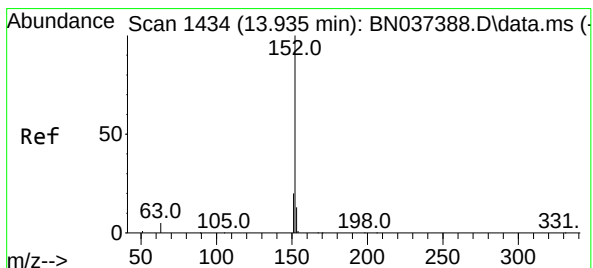
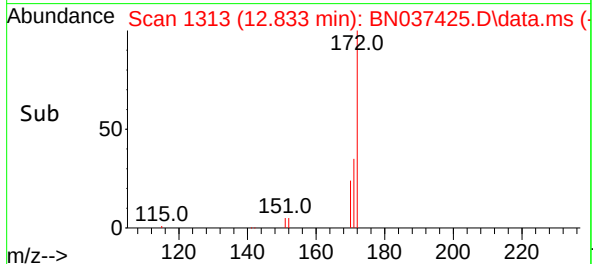
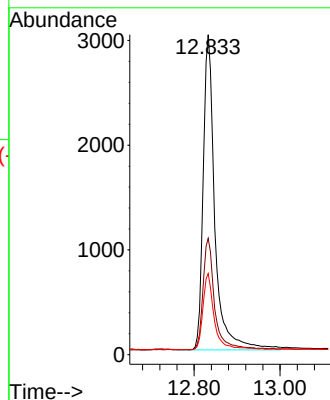
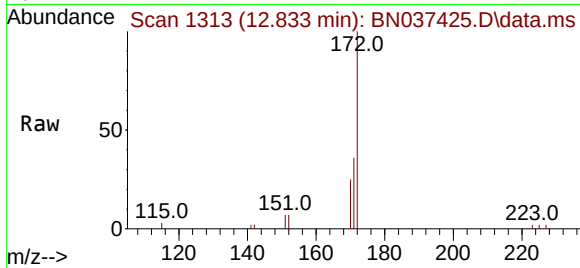




#15
2-Fluorobiphenyl
Concen: 0.402 ng
RT: 12.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

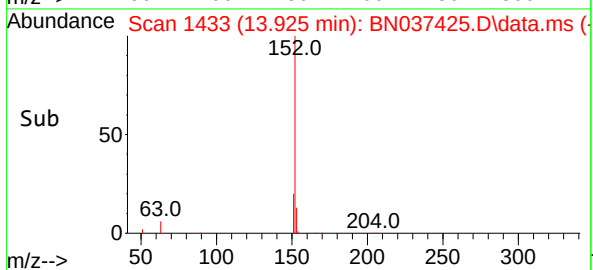
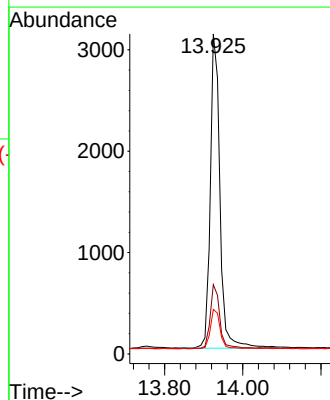
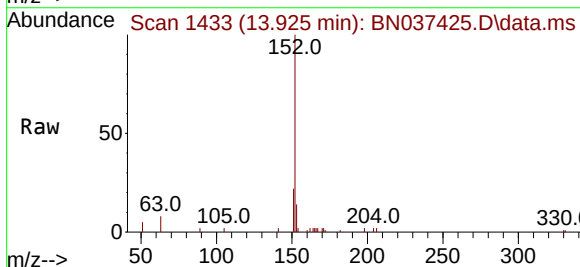
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

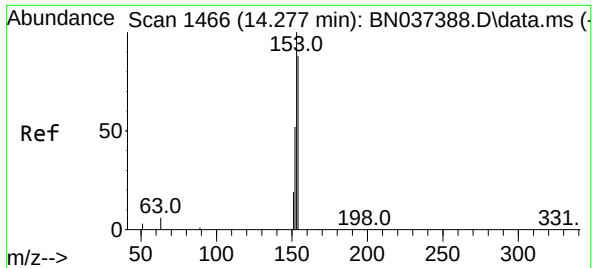
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.8	43.2
170	25.3	20.3	30.5



#16
Acenaphthylene
Concen: 0.391 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.6
153	13.0	10.3	15.5

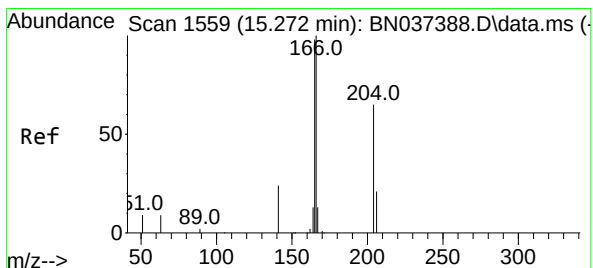
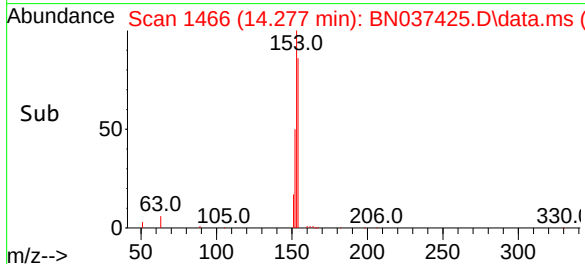
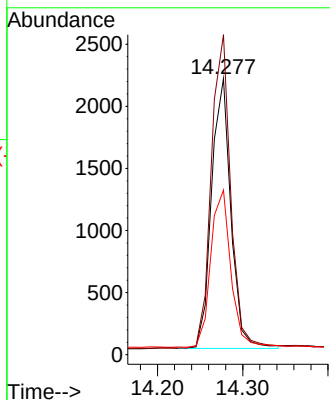
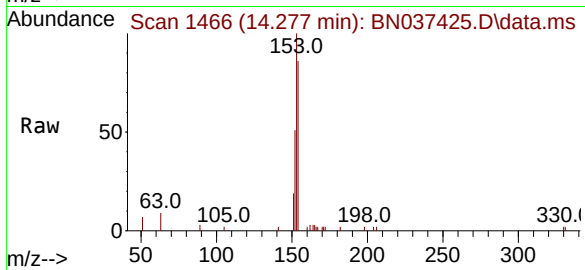




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

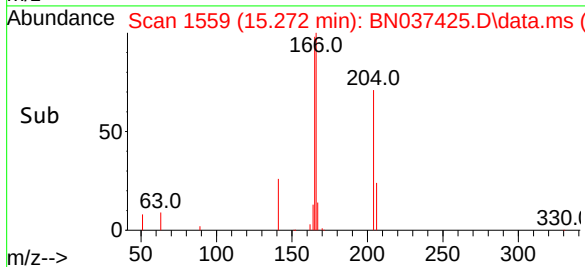
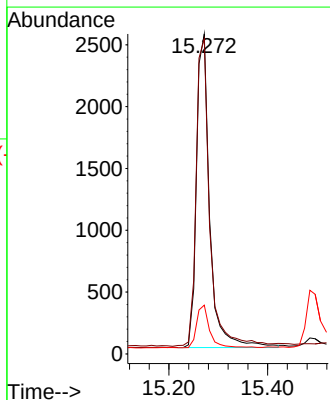
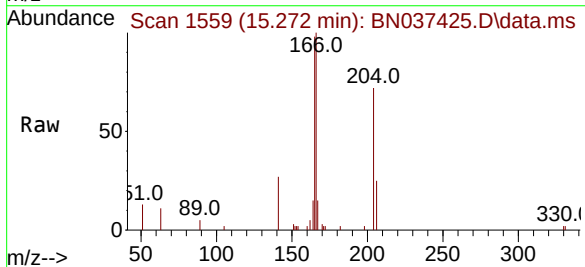
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

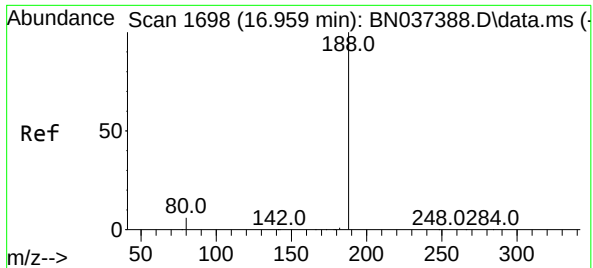
Tgt Ion:154 Resp: 3427
Ion Ratio Lower Upper
154 100
153 118.4 94.6 141.8
152 61.2 50.2 75.2



#18
Fluorene
Concen: 0.374 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:166 Resp: 4710
Ion Ratio Lower Upper
166 100
165 100.2 79.4 119.2
167 13.4 10.6 15.8

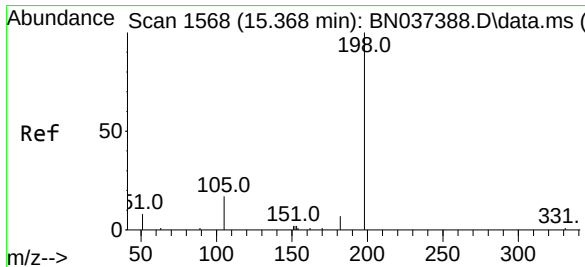
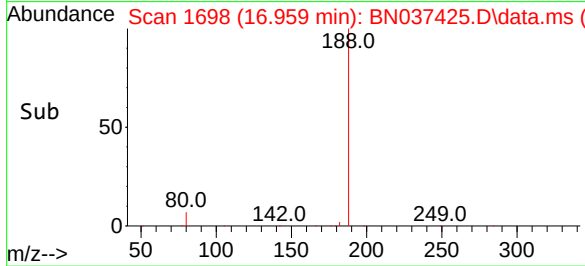
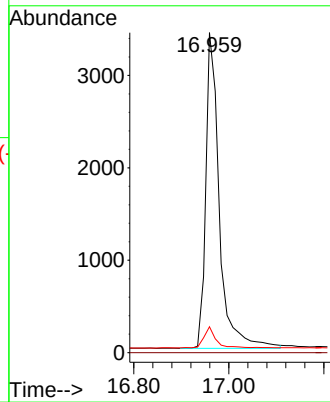
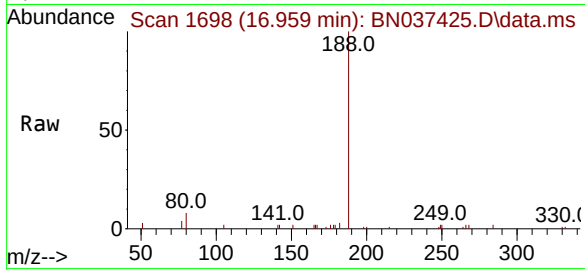




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

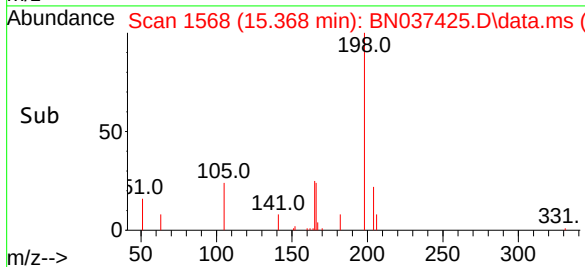
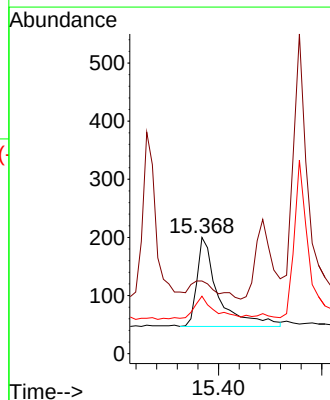
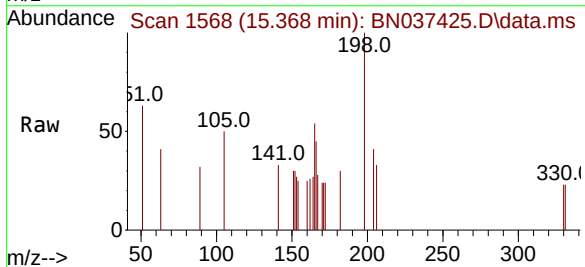
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

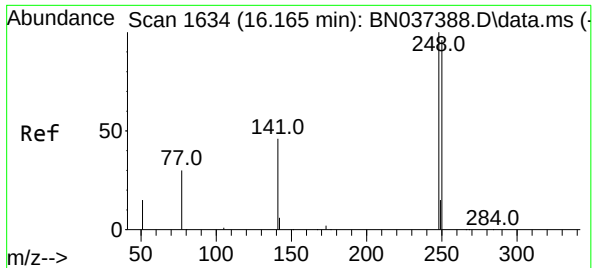
Tgt Ion:188 Resp: 6783
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.1 6.2 9.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.253 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:198 Resp: 441
Ion Ratio Lower Upper
198 100
51 62.5 38.8 58.2#
105 49.5 29.8 44.6#

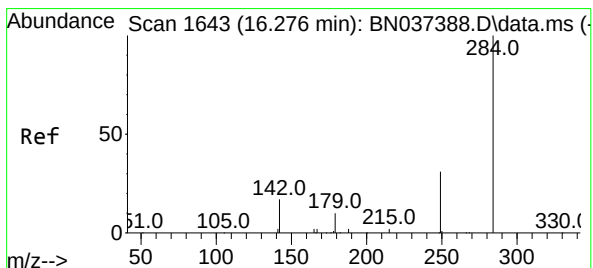
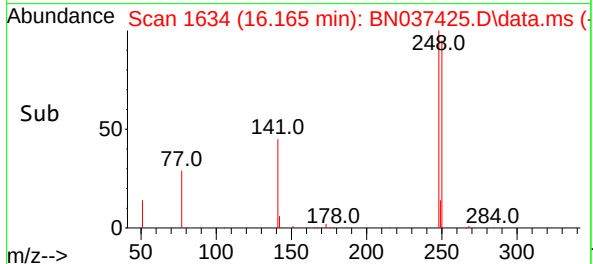
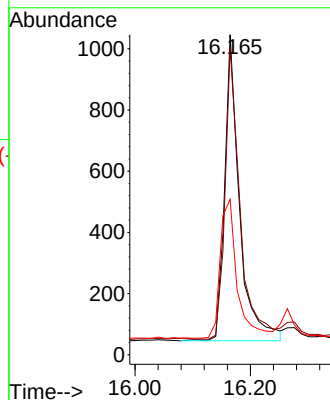
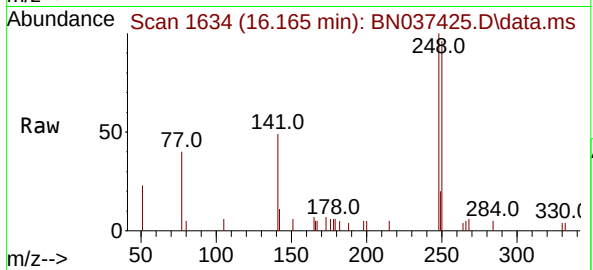




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

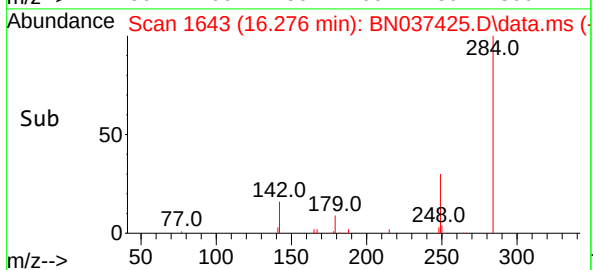
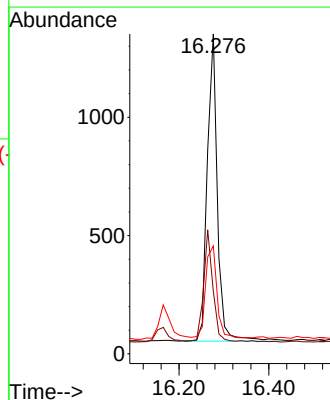
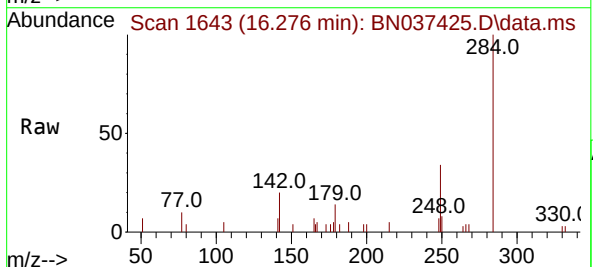
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

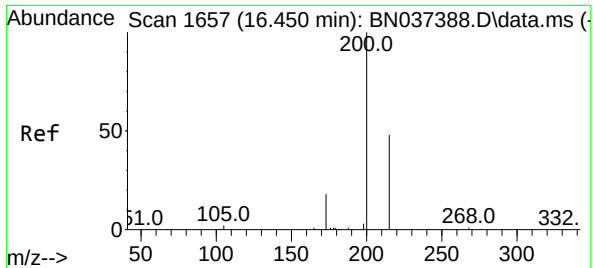
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.0	77.0	115.4
141	48.6	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.394 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.9	27.2	40.8
249	33.5	26.7	40.1

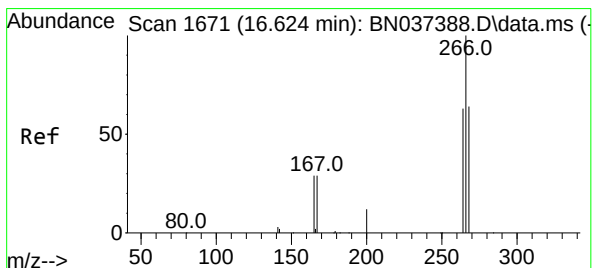
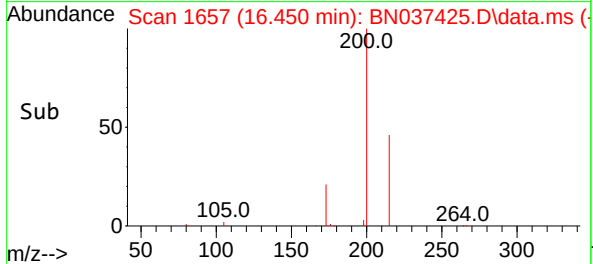
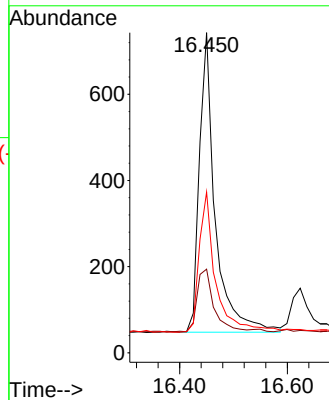
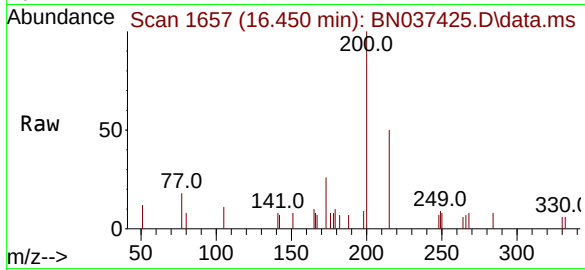




#23
Atrazine
Concen: 0.374 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

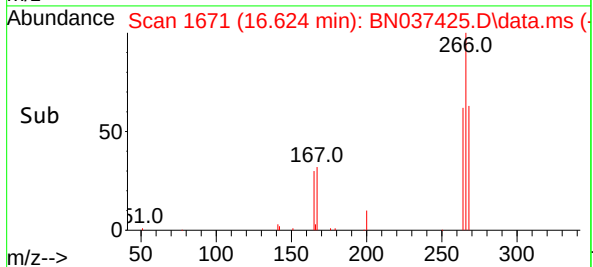
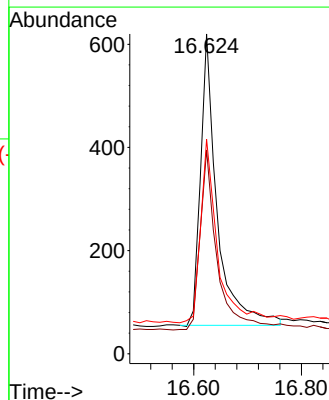
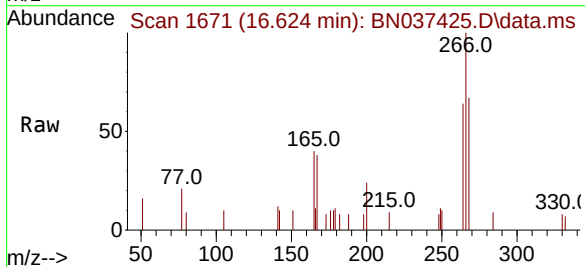
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

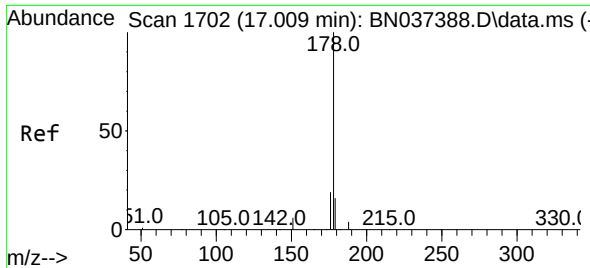
Tgt Ion:200 Resp: 1418
Ion Ratio Lower Upper
200 100
173 26.1 19.0 28.6
215 50.2 41.3 61.9



#24
Pentachlorophenol
Concen: 0.436 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:266 Resp: 1211
Ion Ratio Lower Upper
266 100
264 64.6 49.2 73.8
268 66.4 54.2 81.4

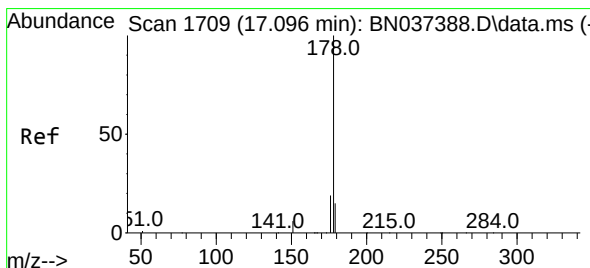
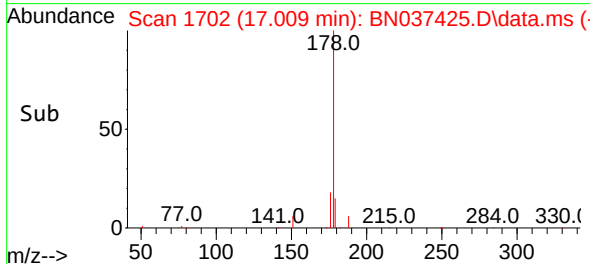
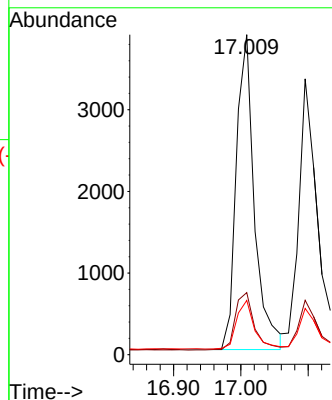
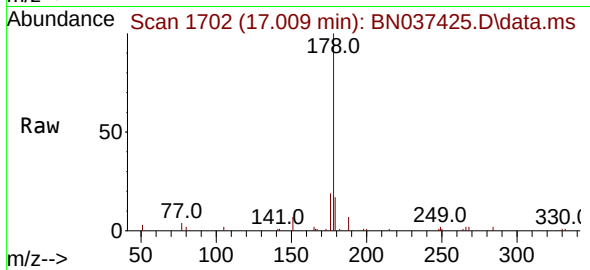




#25
Phenanthrene
Concen: 0.379 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

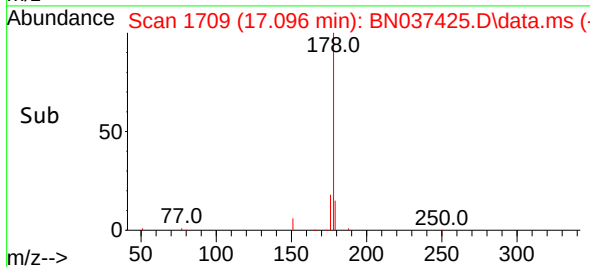
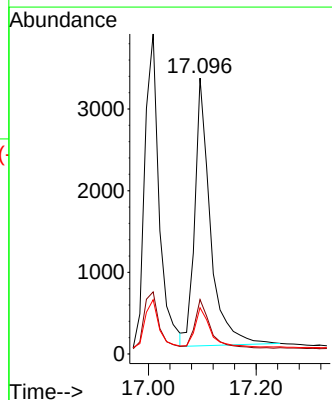
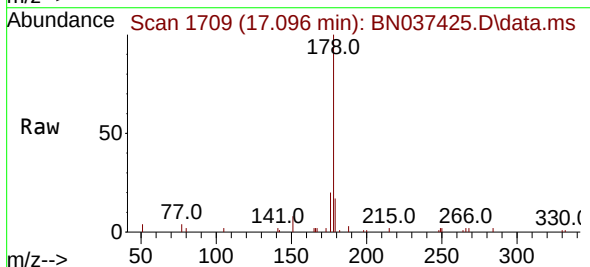
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

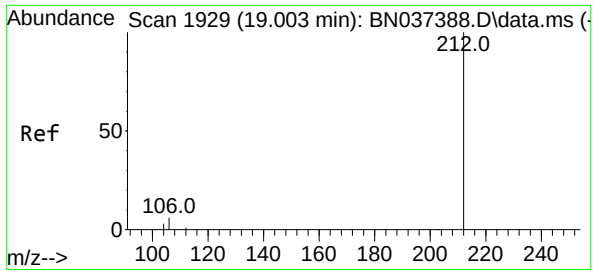
Tgt Ion:178 Resp: 7236
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.4 12.8 19.2



#26
Anthracene
Concen: 0.376 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:178 Resp: 6598
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 19.003 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN037425.D

Acq: 02 Jul 2025 14:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

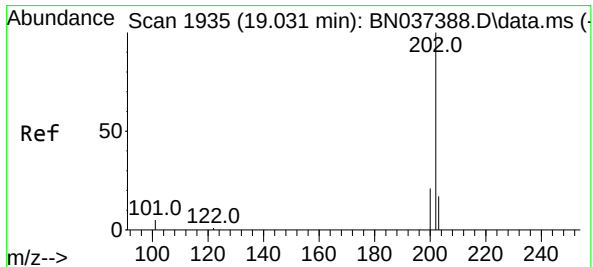
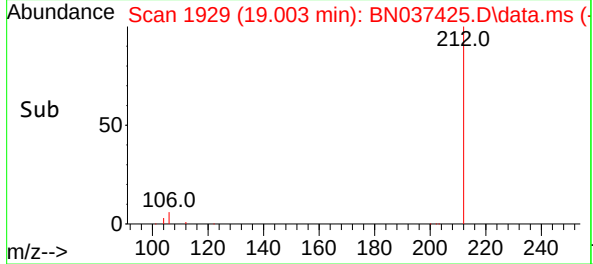
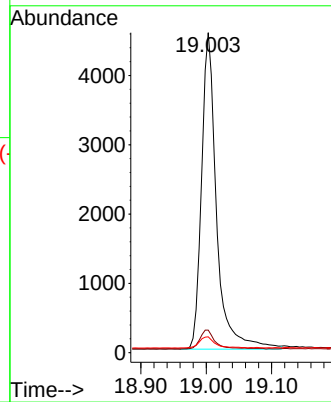
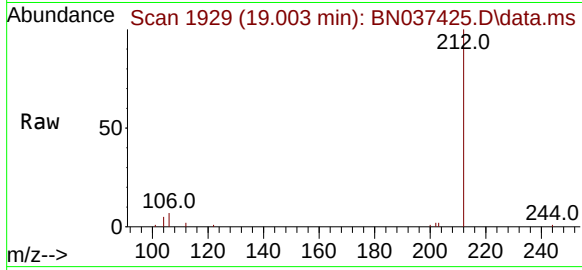
Tgt Ion:212 Resp: 7271

Ion Ratio Lower Upper

212 100

106 6.1 4.5 6.7

104 3.8 2.7 4.1



#28

Fluoranthene

Concen: 0.385 ng

RT: 19.031 min Scan# 1935

Delta R.T. 0.000 min

Lab File: BN037425.D

Acq: 02 Jul 2025 14:04

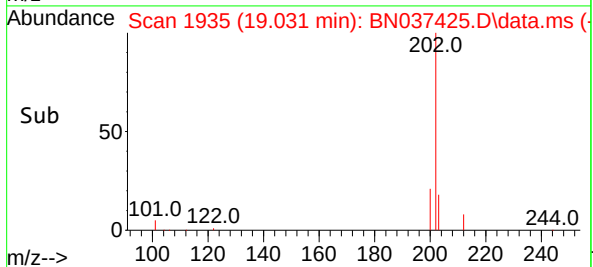
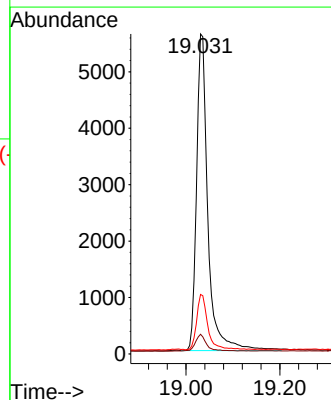
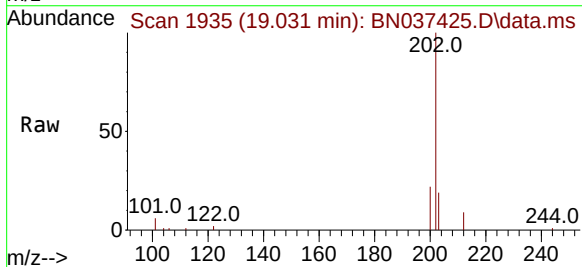
Tgt Ion:202 Resp: 9402

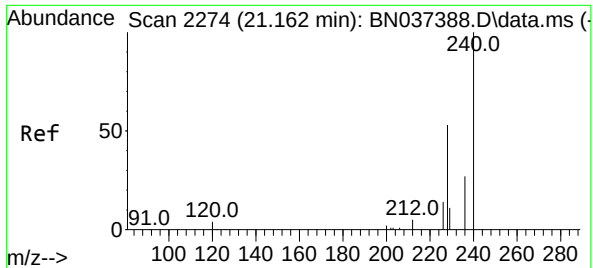
Ion Ratio Lower Upper

202 100

101 5.3 3.8 5.6

203 17.2 13.5 20.3

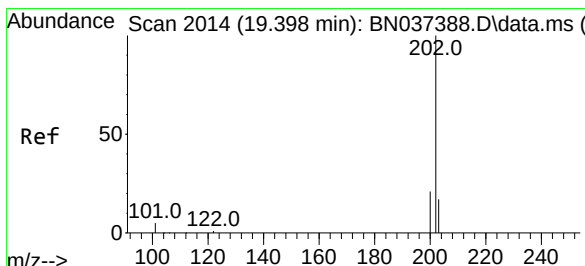
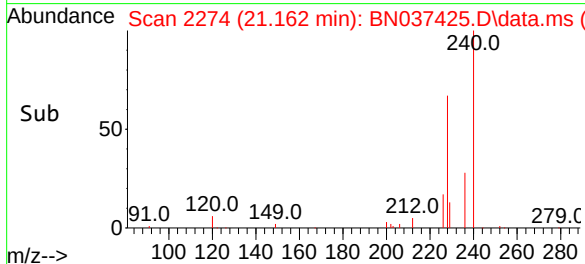
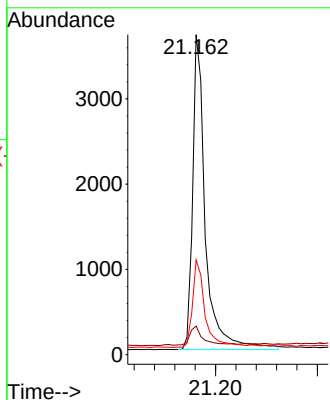
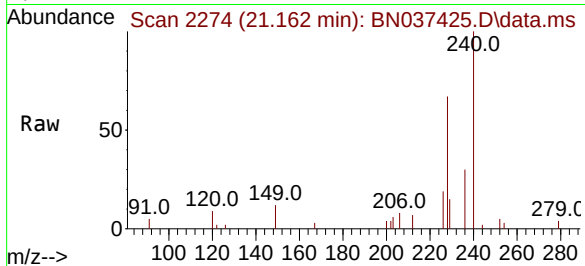




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2116
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

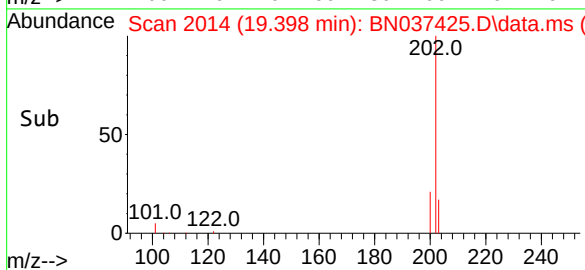
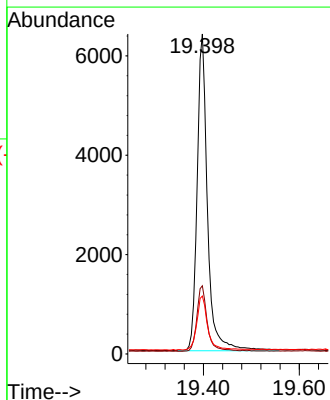
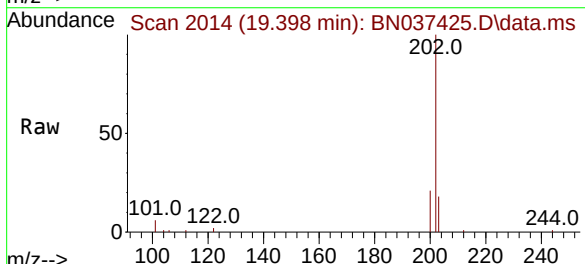
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

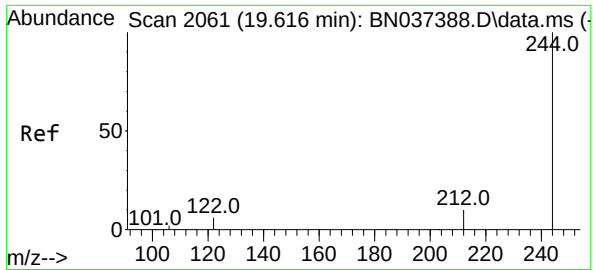
Tgt Ion:240 Resp: 6416
Ion Ratio Lower Upper
240 100
120 8.9 5.3 7.9#
236 29.6 22.7 34.1



#30
Pyrene
Concen: 0.395 ng
RT: 19.398 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:202 Resp: 9586
Ion Ratio Lower Upper
202 100
200 20.7 16.5 24.7
203 17.7 14.2 21.2

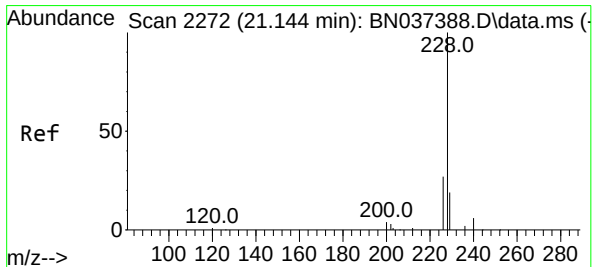
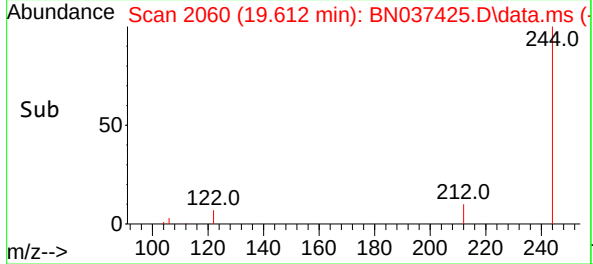
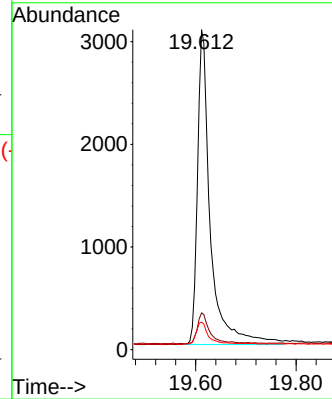
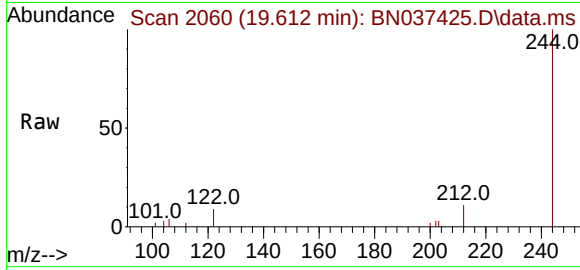




#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.612 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

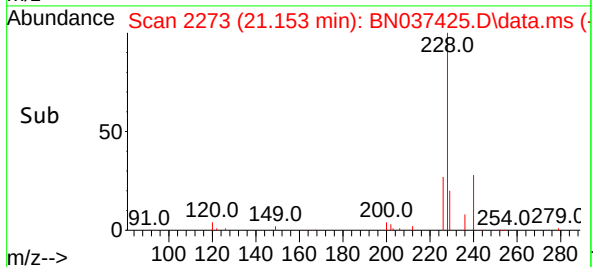
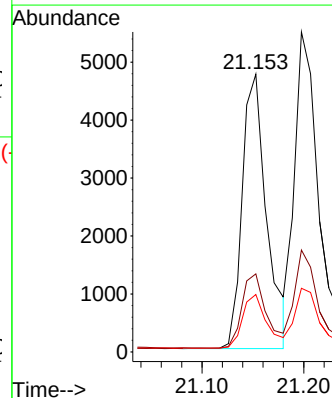
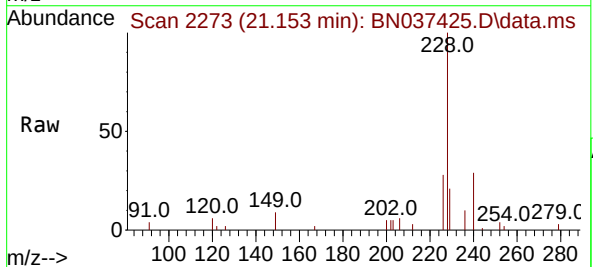
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

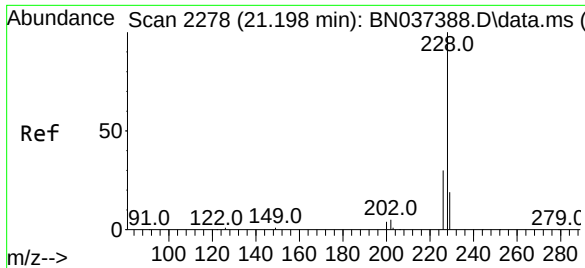
Tgt Ion:244	Resp:	5456
Ion Ratio	Lower	Upper
244	100	
212	11.5	9.1 13.7
122	8.6	6.3 9.5



#32
Benzo(a)anthracene
Concen: 0.391 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:228	Resp:	7891
Ion Ratio	Lower	Upper
228	100	
226	28.1	22.6 34.0
229	20.7	16.2 24.2





#33

Chrysene

Concen: 0.386 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037425.D

Acq: 02 Jul 2025 14:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

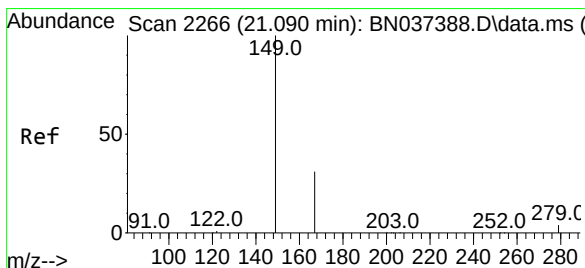
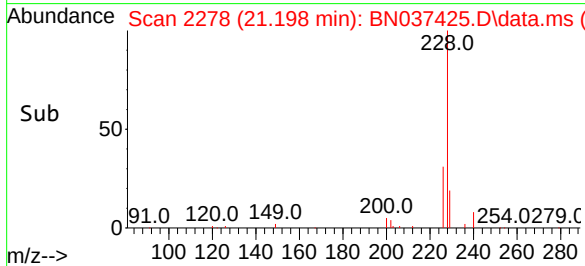
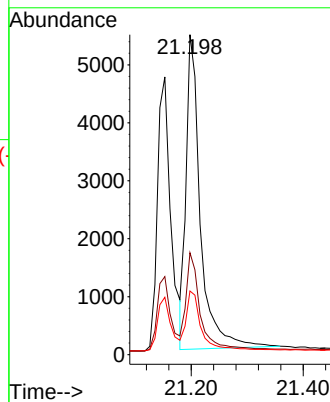
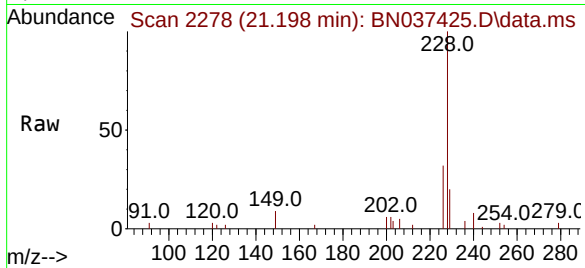
Tgt Ion:228 Resp: 9635

Ion Ratio Lower Upper

228 100

226 31.9 24.5 36.7

229 19.9 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.441 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037425.D

Acq: 02 Jul 2025 14:04

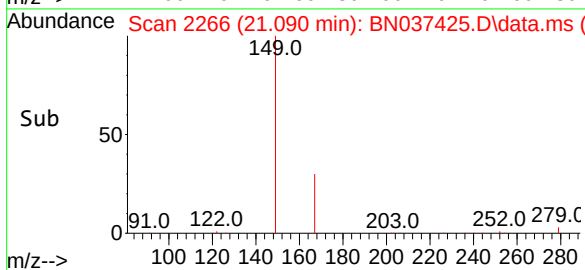
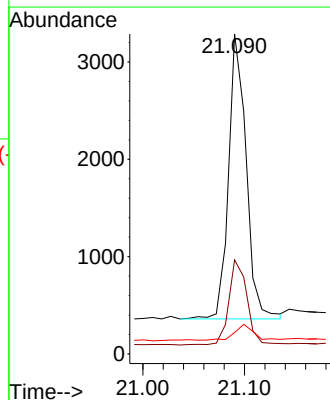
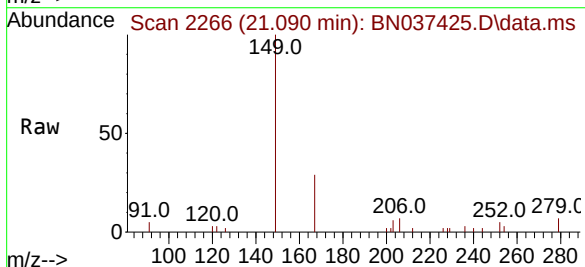
Tgt Ion:149 Resp: 3522

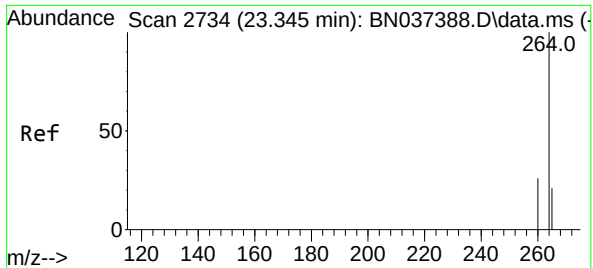
Ion Ratio Lower Upper

149 100

167 31.1 24.8 37.2

279 5.8 5.0 7.6

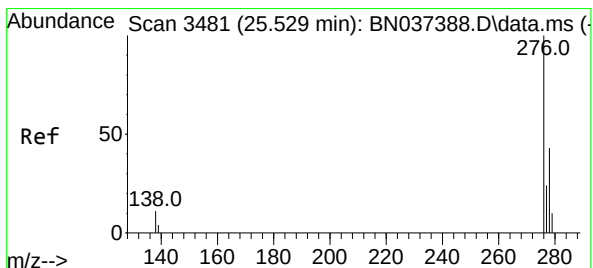
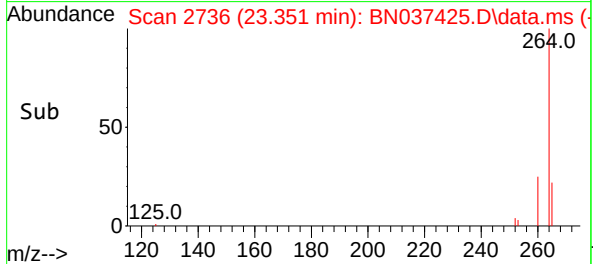
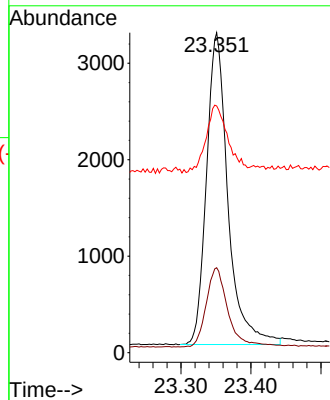
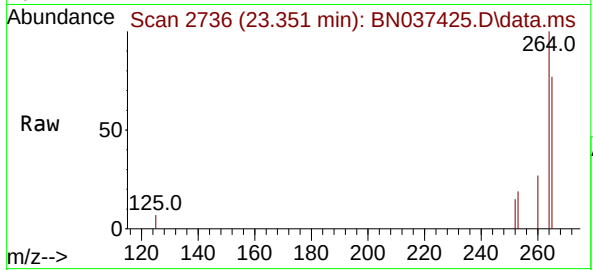




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

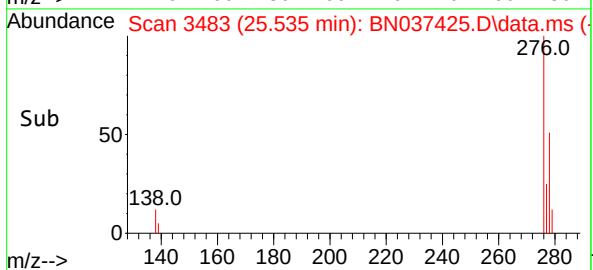
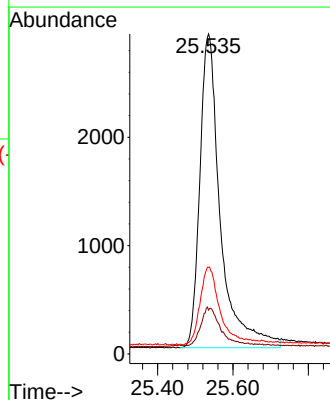
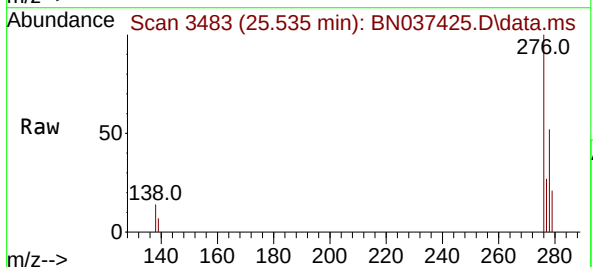
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

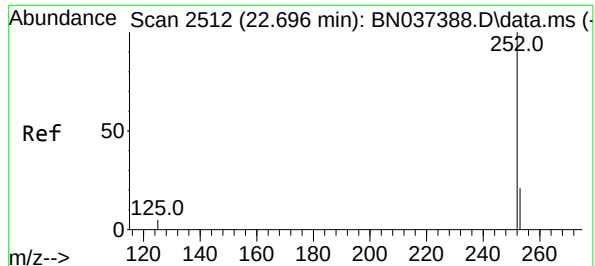
Tgt Ion:264 Resp: 6880
Ion Ratio Lower Upper
264 100
260 26.5 21.4 32.0
265 77.1 56.2 84.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.378 ng
RT: 25.535 min Scan# 3483
Delta R.T. 0.006 min
Lab File: BN037425.D
Acq: 02 Jul 2025 14:04

Tgt Ion:276 Resp: 10959
Ion Ratio Lower Upper
276 100
138 4.7 8.5 12.7#
277 23.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 22.696 min Scan# 2512

Delta R.T. 0.000 min

Lab File: BN037425.D

Acq: 02 Jul 2025 14:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

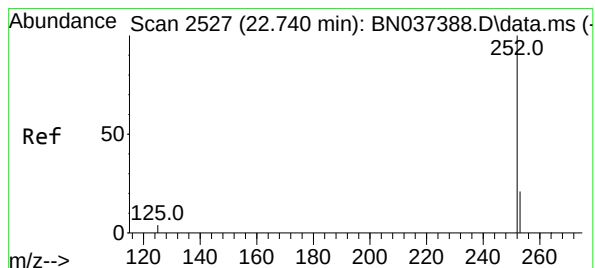
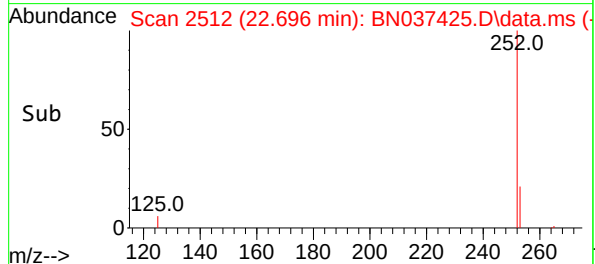
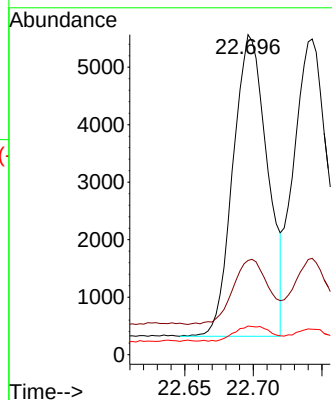
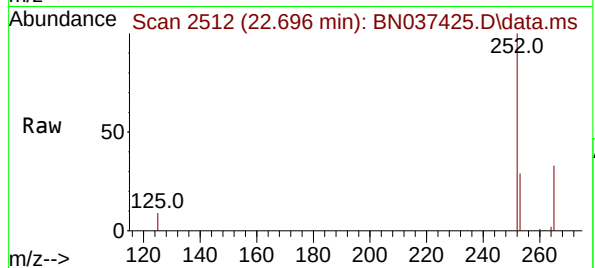
Tgt Ion:252 Resp: 9135

Ion Ratio Lower Upper

252 100

253 29.4 22.8 34.2

125 9.0 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.387 ng

RT: 22.743 min Scan# 2528

Delta R.T. 0.003 min

Lab File: BN037425.D

Acq: 02 Jul 2025 14:04

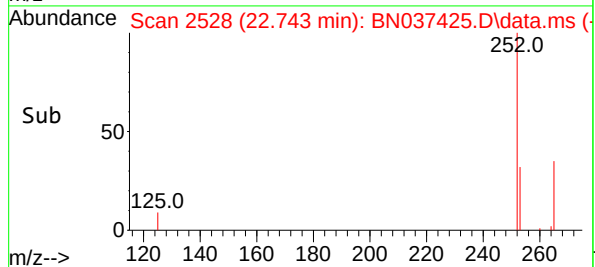
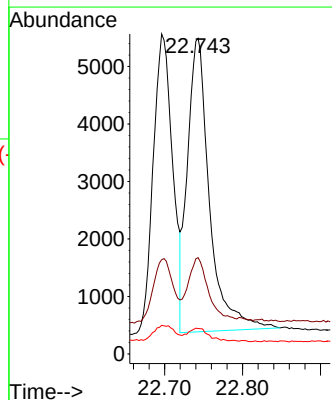
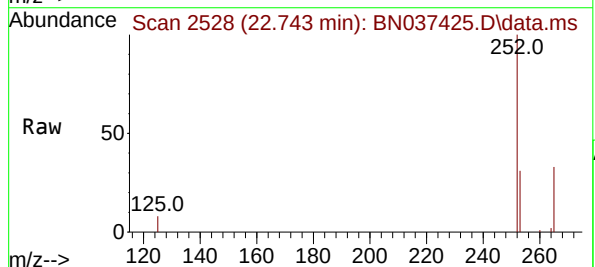
Tgt Ion:252 Resp: 10022

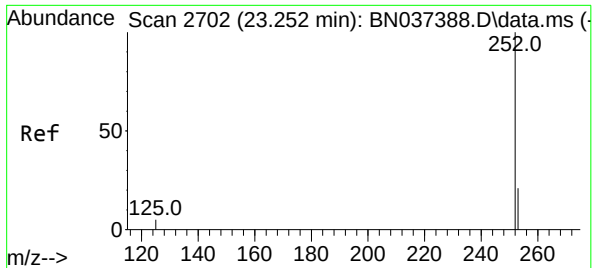
Ion Ratio Lower Upper

252 100

253 30.5 23.2 34.8

125 8.1 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.388 ng

RT: 23.255 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037425.D

Acq: 02 Jul 2025 14:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

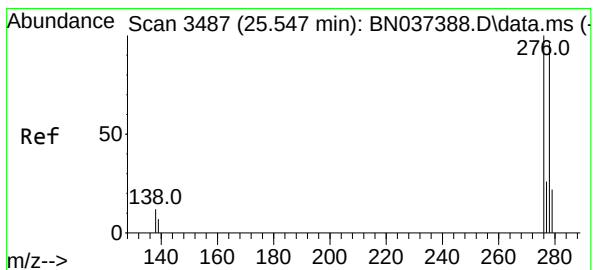
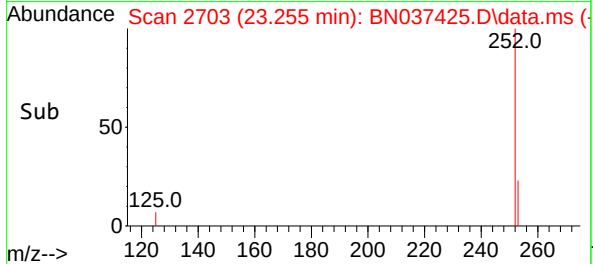
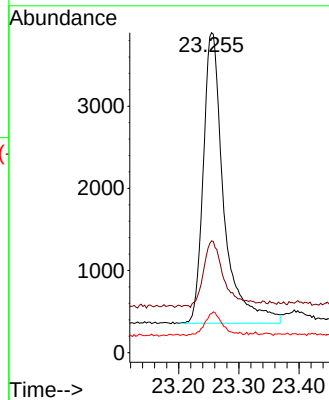
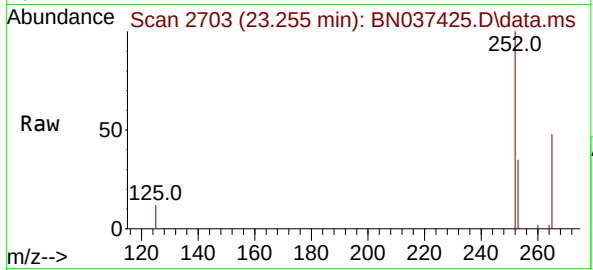
Tgt Ion:252 Resp: 8377

Ion Ratio Lower Upper

252 100

253 35.0 25.6 38.4

125 12.2 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.333 ng

RT: 25.550 min Scan# 3488

Delta R.T. 0.003 min

Lab File: BN037425.D

Acq: 02 Jul 2025 14:04

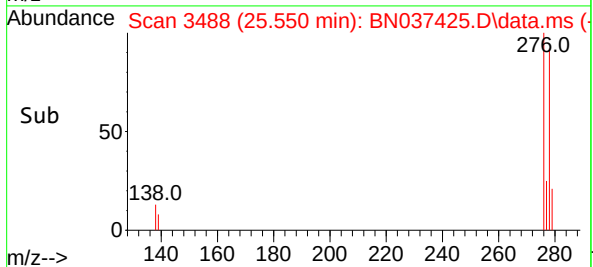
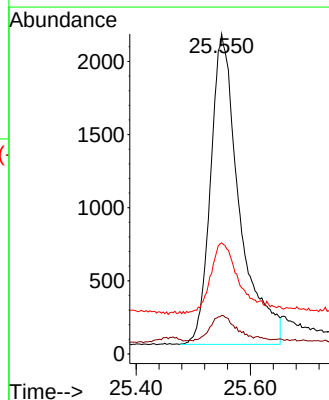
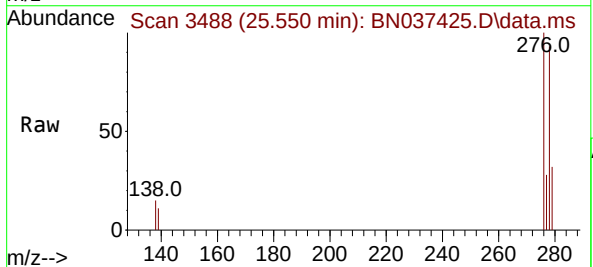
Tgt Ion:278 Resp: 7428

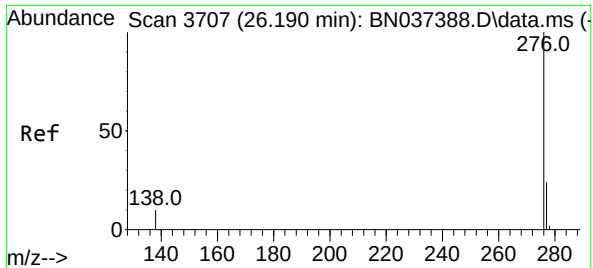
Ion Ratio Lower Upper

278 100

139 12.0 8.5 12.7

279 34.7 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.388 ng

RT: 26.193 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037425.D

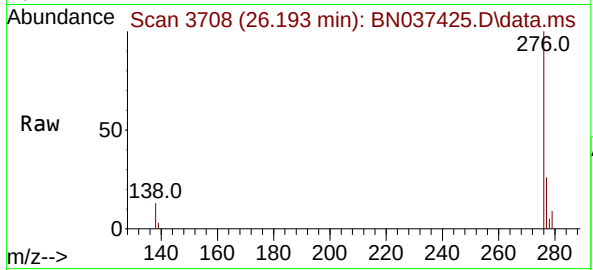
Acq: 02 Jul 2025 14:04

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



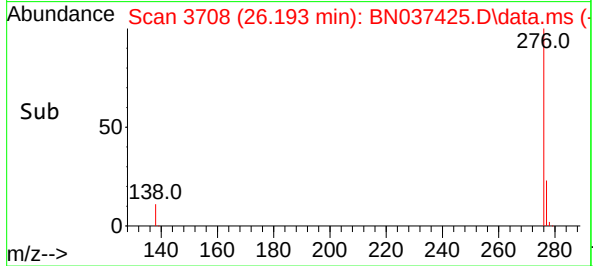
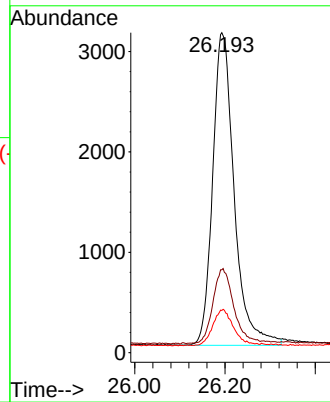
Tgt Ion:276 Resp: 10322

Ion Ratio Lower Upper

276 100

277 25.9 21.0 31.4

138 13.2 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
 Data File : BN037425.D
 Acq On : 02 Jul 2025 14:04
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 02 15:25:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 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	114	0.00
2	1,4-Dioxane	0.379	0.395	-4.2	122	0.00
3	n-Nitrosodimethylamine	0.375	0.365	2.7	111	0.00
4 S	2-Fluorophenol	0.771	0.839	-8.8	119	0.00
5 S	Phenol-d6	0.799	0.809	-1.3	114	0.00
6	bis(2-Chloroethyl)ether	0.711	0.703	1.1	112	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8 S	Nitrobenzene-d5	0.321	0.308	4.0	110	-0.01
9	Naphthalene	1.030	1.008	2.1	112	-0.01
10	Hexachlorobutadiene	0.409	0.407	0.5	109	-0.01
11 SURR	2-Methylnaphthalene-d10	0.619	0.585	5.5	113	0.00
12	2-Methylnaphthalene	0.709	0.682	3.8	111	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.235	0.224	4.7	101	0.00
15 S	2-Fluorobiphenyl	1.727	1.734	-0.4	109	0.00
16	Acenaphthylene	1.659	1.622	2.2	111	-0.01
17	Acenaphthene	1.083	1.041	3.9	108	0.00
18	Fluorene	1.530	1.430	6.5	105	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
20	4,6-Dinitro-2-methylphenol	0.103	0.065	36.9#	82	0.00
21	4-Bromophenyl-phenylether	0.282	0.264	6.4	106	0.00
22	Hexachlorobenzene	0.303	0.299	1.3	107	0.00
23	Atrazine	0.224	0.209	6.7	106	0.00
24	Pentachlorophenol	0.164	0.179	-9.1	124	0.00
25	Phenanthrene	1.127	1.067	5.3	107	0.00
26	Anthracene	1.036	0.973	6.1	108	0.00
27 SURR	Fluoranthene-d10	1.146	1.072	6.5	109	0.00
28	Fluoranthene	1.439	1.386	3.7	110	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	114	0.00
30	Pyrene	1.514	1.494	1.3	111	0.00
31 S	Terphenyl-d14	0.853	0.850	0.4	112	0.00
32	Benzo(a)anthracene	1.257	1.230	2.1	120	0.00
33	Chrysene	1.556	1.502	3.5	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.498	0.549	-10.2	124	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.593	5.5	117	0.00
37	Benzo(b)fluoranthene	1.410	1.328	5.8	117	0.00
38	Benzo(k)fluoranthene	1.507	1.457	3.3	115	0.00
39 C	Benzo(a)pyrene	1.254	1.218	2.9	119	0.00
40	Dibenzo(a,h)anthracene	1.296	1.080	16.7	103	0.00
41	Benzo(g,h,i)perylene	1.548	1.500	3.1	117	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
 Data File : BN037425.D
 Acq On : 02 Jul 2025 14:04
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 02 15:25:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 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	114	0.00
2	1,4-Dioxane	0.400	0.416	-4.0	122	0.00
3	n-Nitrosodimethylamine	0.400	0.390	2.5	111	0.00
4 S	2-Fluorophenol	0.400	0.435	-8.7	119	0.00
5 S	Phenol-d6	0.400	0.405	-1.3	114	0.00
6	bis(2-Chloroethyl)ether	0.400	0.396	1.0	112	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8 S	Nitrobenzene-d5	0.400	0.385	3.8	110	-0.01
9	Naphthalene	0.400	0.392	2.0	112	-0.01
10	Hexachlorobutadiene	0.400	0.398	0.5	109	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.378	5.5	113	0.00
12	2-Methylnaphthalene	0.400	0.385	3.8	111	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.400	0.382	4.5	101	0.00
15 S	2-Fluorobiphenyl	0.400	0.402	-0.5	109	0.00
16	Acenaphthylene	0.400	0.391	2.3	111	-0.01
17	Acenaphthene	0.400	0.384	4.0	108	0.00
18	Fluorene	0.400	0.374	6.5	105	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	108	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.253	36.8#	82	0.00
21	4-Bromophenyl-phenylether	0.400	0.375	6.3	106	0.00
22	Hexachlorobenzene	0.400	0.394	1.5	107	0.00
23	Atrazine	0.400	0.374	6.5	106	0.00
24	Pentachlorophenol	0.400	0.436	-9.0	124	0.00
25	Phenanthrene	0.400	0.379	5.3	107	0.00
26	Anthracene	0.400	0.376	6.0	108	0.00
27 SURR	Fluoranthene-d10	0.400	0.374	6.5	109	0.00
28	Fluoranthene	0.400	0.385	3.8	110	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	114	0.00
30	Pyrene	0.400	0.395	1.3	111	0.00
31 S	Terphenyl-d14	0.400	0.399	0.3	112	0.00
32	Benzo(a)anthracene	0.400	0.391	2.3	120	0.00
33	Chrysene	0.400	0.386	3.5	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.441	-10.2	124	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.378	5.5	117	0.00
37	Benzo(b)fluoranthene	0.400	0.377	5.8	117	0.00
38	Benzo(k)fluoranthene	0.400	0.387	3.3	115	0.00
39 C	Benzo(a)pyrene	0.400	0.388	3.0	119	0.00
40	Dibenzo(a,h)anthracene	0.400	0.333	16.8	103	0.00
41	Benzo(g,h,i)perylene	0.400	0.388	3.0	117	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.: Q2439 SAS No.: Q2439 SDG No.: Q2439

Instrument ID: BNA_N Calibration Date/Time: 07/02/2025 18:03

Lab File ID: BN037431.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.589		-4.8	50.0
Fluoranthene-d10	1.146	1.130		-1.4	50.0
2-Fluorophenol	0.771	0.806		4.5	50.0
Phenol-d6	0.799	0.763		-4.5	50.0
Nitrobenzene-d5	0.321	0.298		-7.2	50.0
2-Fluorobiphenyl	1.727	1.660		-3.9	50.0
2,4,6-Tribromophenol	0.235	0.230		-2.1	50.0
Terphenyl-d14	0.853	0.851		-0.2	50.0
1,4-Dioxane	0.379	0.423		11.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
 Data File : BN037431.D
 Acq On : 02 Jul 2025 18:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jul 02 18:25:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

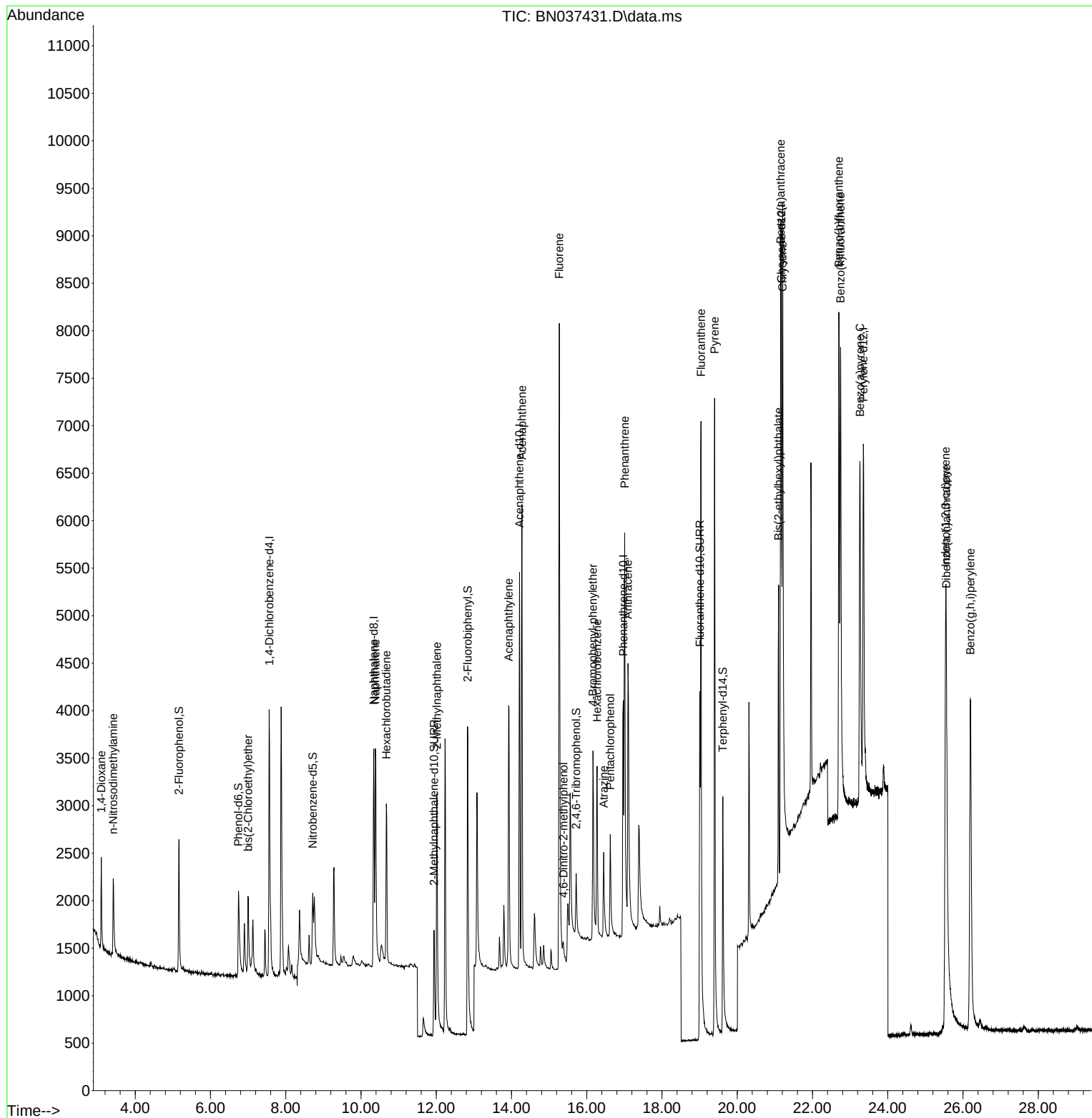
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1682	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3622	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2506	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5228	0.400	ng	# 0.01
29) Chrysene-d12	21.171	240	5147	0.400	ng	0.00
35) Perylene-d12	23.354	264	5618	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1355	0.418	ng	0.00
5) Phenol-d6	6.744	99	1283	0.382	ng	0.00
8) Nitrobenzene-d5	8.717	82	1081	0.372	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2134	0.381	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	577	0.393	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	4161	0.385	ng	0.00
27) Fluoranthene-d10	19.003	212	5908	0.394	ng	0.00
31) Terphenyl-d14	19.616	244	4379	0.399	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	712	0.446	ng	92
3) n-Nitrosodimethylamine	3.415	42	591	0.375	ng	# 85
6) bis(2-Chloroethyl)ether	6.997	93	1069	0.358	ng	93
9) Naphthalene	10.383	128	3612	0.387	ng	98
10) Hexachlorobutadiene	10.671	225	1565	0.423	ng	# 99
12) 2-Methylnaphthalene	12.016	142	2460	0.383	ng	98
16) Acenaphthylene	13.924	152	3879	0.373	ng	99
17) Acenaphthene	14.277	154	2591	0.382	ng	98
18) Fluorene	15.272	166	3645	0.380	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	352	0.262	ng	# 69
21) 4-Bromophenyl-phenylether	16.165	248	1426	0.387	ng	# 94
22) Hexachlorobenzene	16.276	284	1617	0.408	ng	98
23) Atrazine	16.450	200	1136	0.389	ng	94
24) Pentachlorophenol	16.624	266	774	0.361	ng	96
25) Phenanthrene	17.009	178	5527	0.375	ng	99
26) Anthracene	17.095	178	4852	0.358	ng	100
28) Fluoranthene	19.035	202	7451	0.396	ng	99
30) Pyrene	19.398	202	7521	0.386	ng	99
32) Benzo(a)anthracene	21.153	228	5702	0.353	ng	99
33) Chrysene	21.206	228	8055	0.402	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2734	0.427	ng	98
36) Indeno(1,2,3-cd)pyrene	25.538	276	9152	0.386	ng	97
37) Benzo(b)fluoranthene	22.702	252	7472m	0.377	ng	
38) Benzo(k)fluoranthene	22.746	252	8339	0.394	ng	95
39) Benzo(a)pyrene	23.260	252	6760	0.384	ng	# 88
40) Dibenzo(a,h)anthracene	25.555	278	6724	0.370	ng	# 92
41) Benzo(g,h,i)perylene	26.196	276	8608	0.396	ng	98

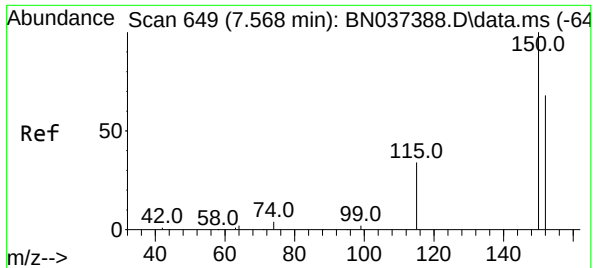
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037431.D
Acq On : 02 Jul 2025 18:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jul 02 18:25:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

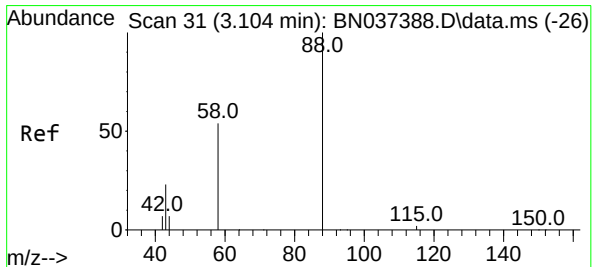
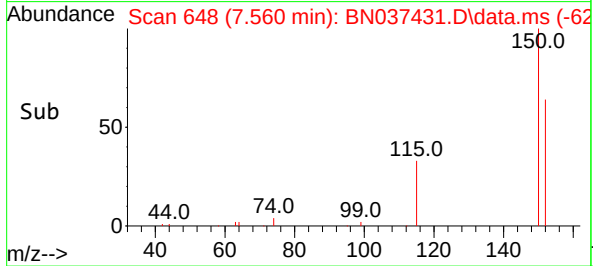
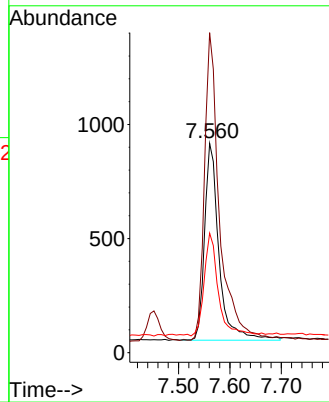
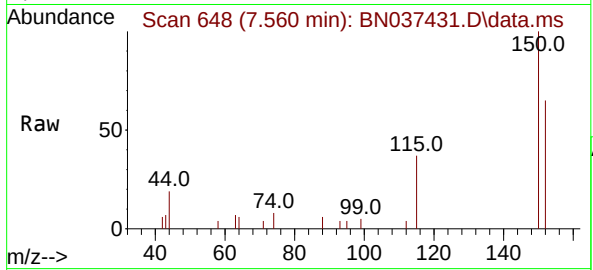




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

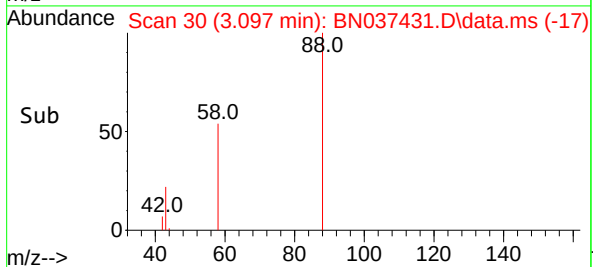
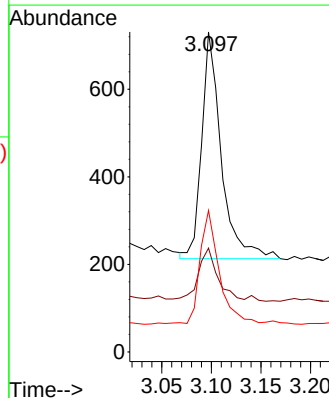
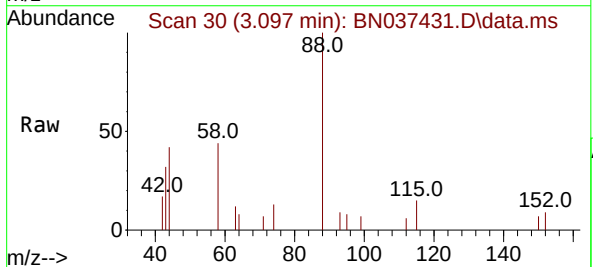
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

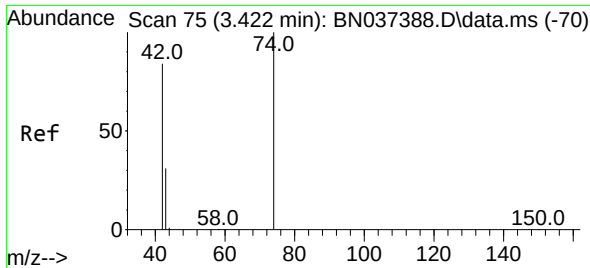
Tgt Ion:152 Resp: 1682
Ion Ratio Lower Upper
152 100
150 152.9 116.2 174.2
115 57.1 42.9 64.3



#2
1,4-Dioxane
Concen: 0.446 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion: 88 Resp: 712
Ion Ratio Lower Upper
88 100
43 24.6 21.6 32.4
58 50.3 45.9 68.9

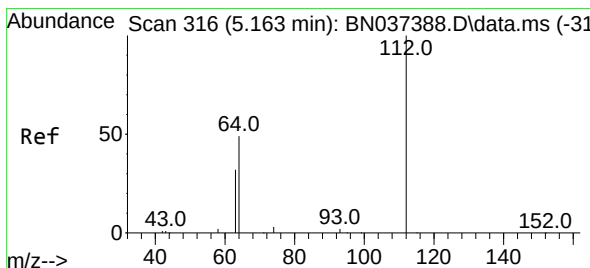
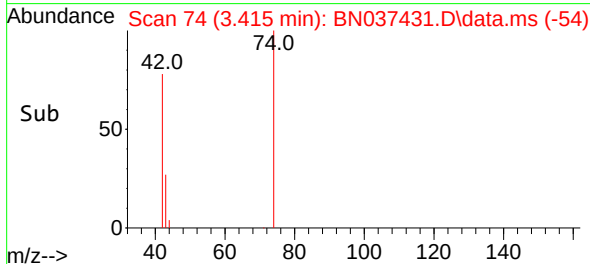
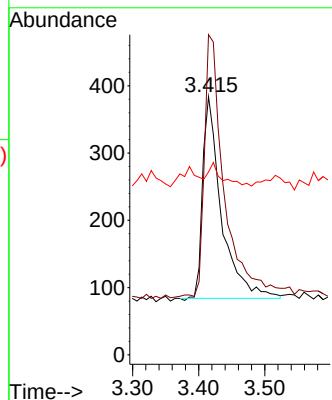
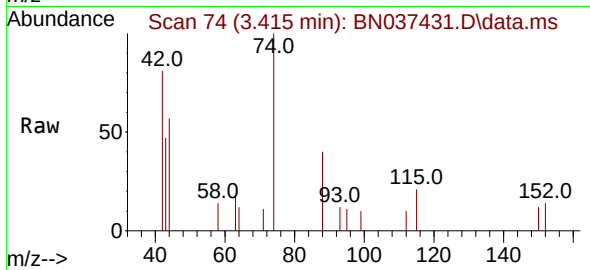




#3
n-Nitrosodimethylamine
Concen: 0.375 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

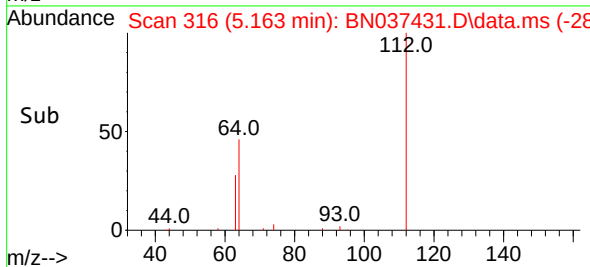
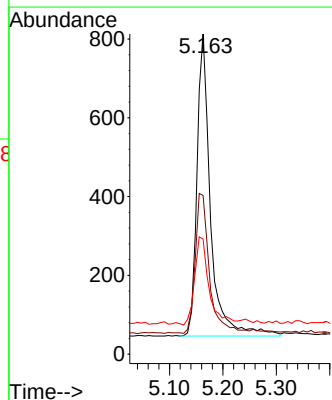
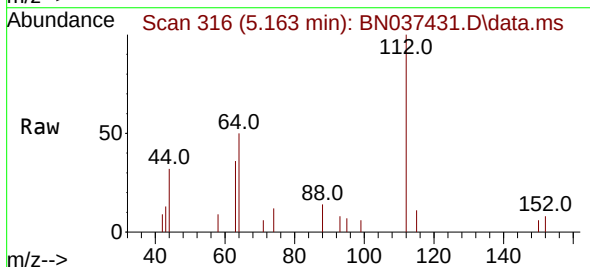
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

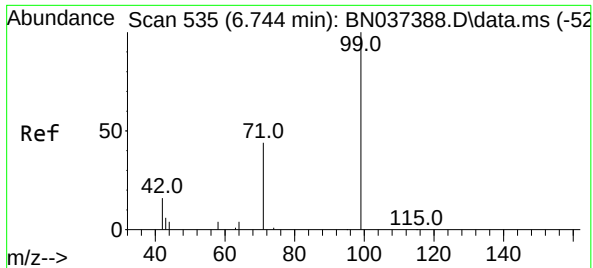
Tgt Ion: 42 Resp: 591
Ion Ratio Lower Upper
42 100
74 140.3 97.8 146.8
44 8.0 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.418 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion: 112 Resp: 1355
Ion Ratio Lower Upper
112 100
64 47.7 40.3 60.5
63 31.3 26.1 39.1

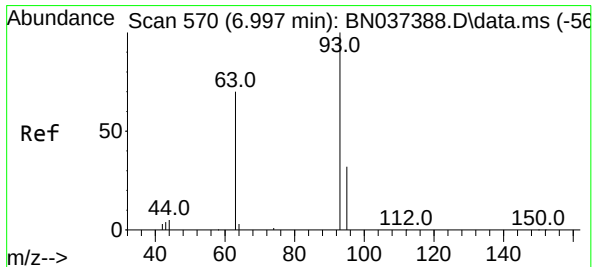
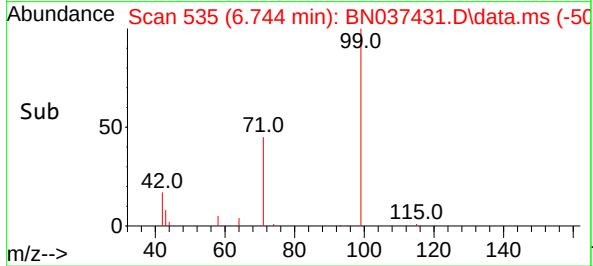
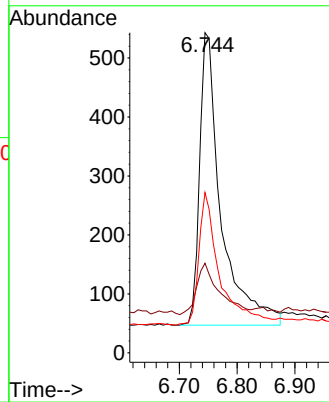
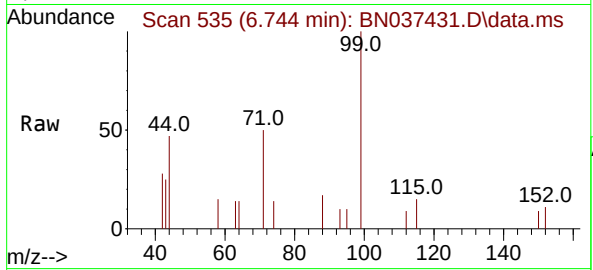




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.744 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

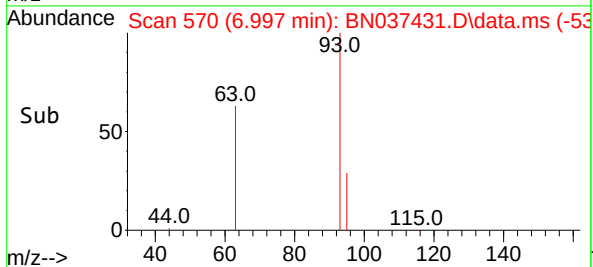
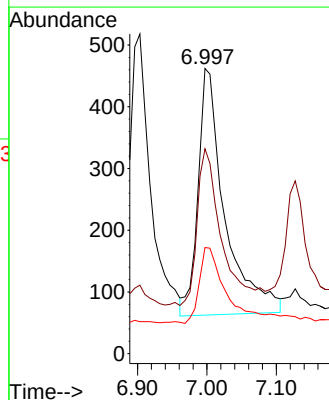
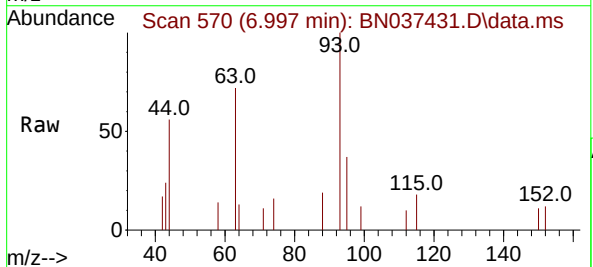
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

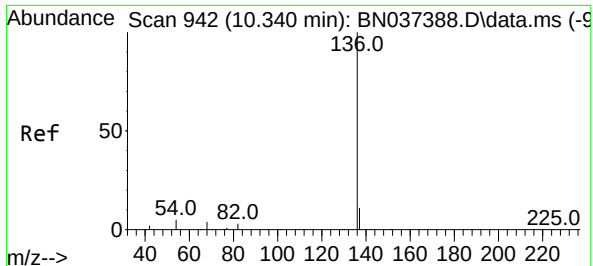
Tgt Ion:	99	Resp:	1283
Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.6	23.4
71	44.3	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.358 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:	93	Resp:	1069
Ion	Ratio	Lower	Upper
93	100		
63	57.5	49.6	74.4
95	34.7	23.9	35.9

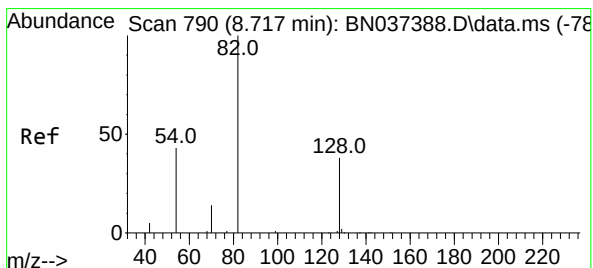
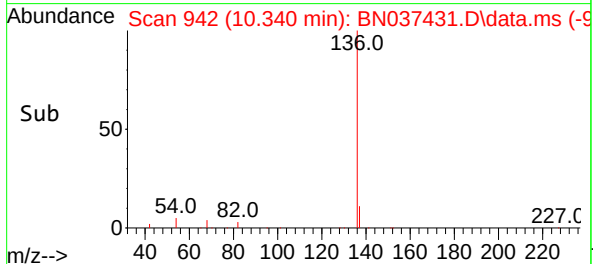
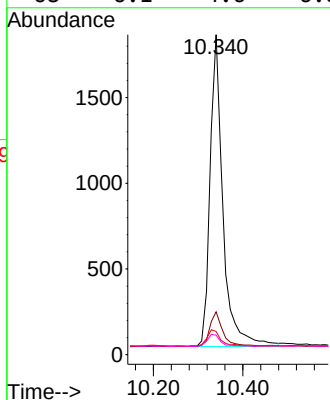
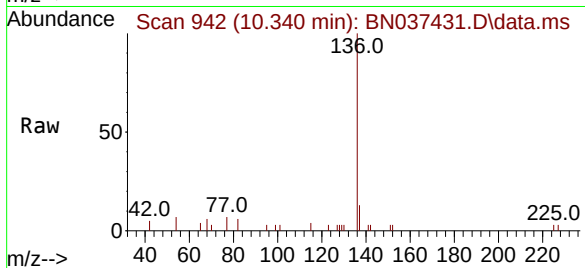




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

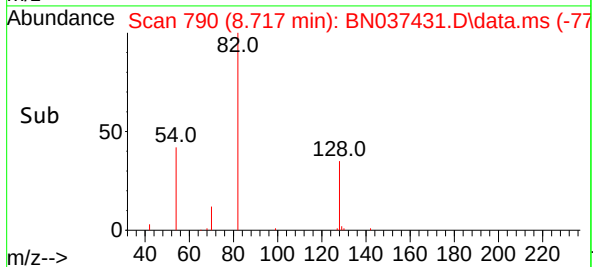
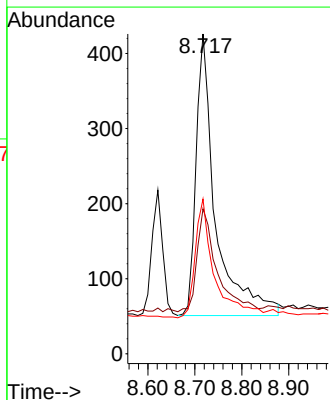
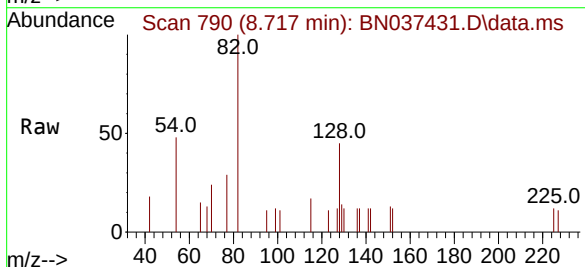
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

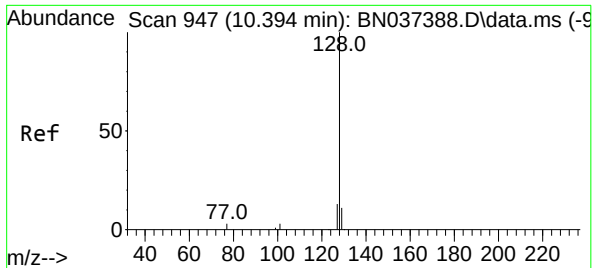
Tgt Ion:	136	Resp:	3622
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.4	15.6
54	7.2	5.6	8.4
68	6.1	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:	82	Resp:	1081
Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.0	51.0
54	48.4	37.7	56.5

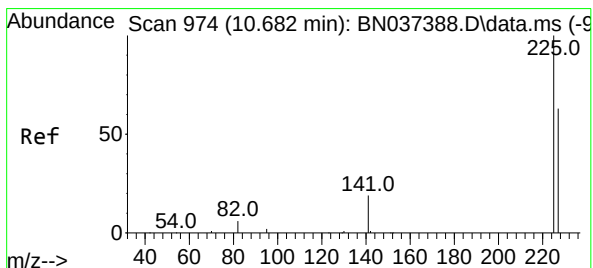
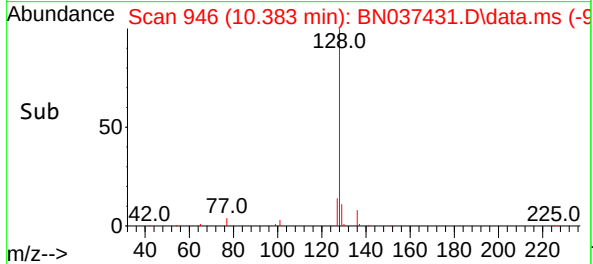
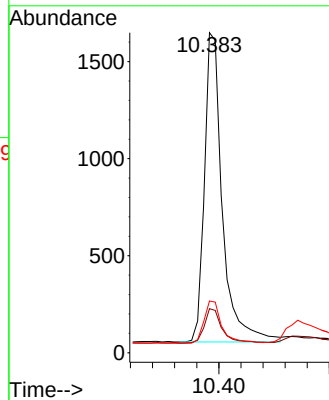
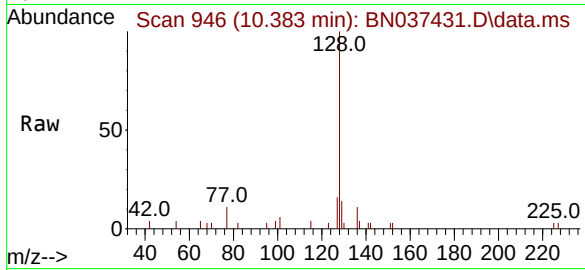




#9
Naphthalene
Concen: 0.387 ng
RT: 10.383 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

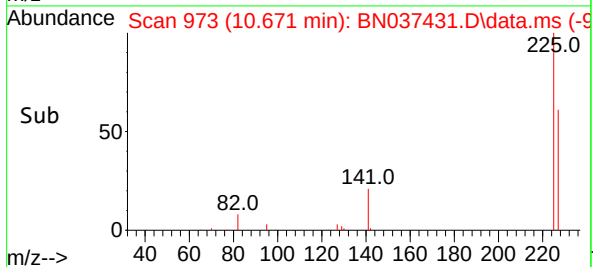
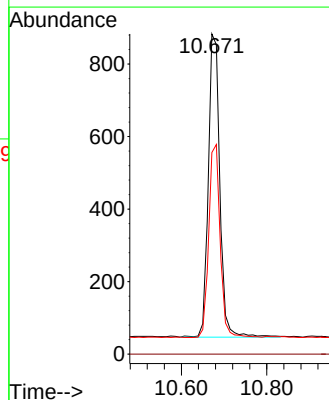
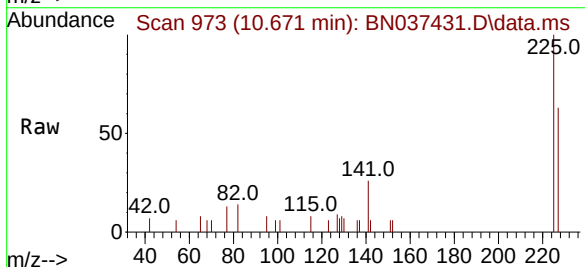
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

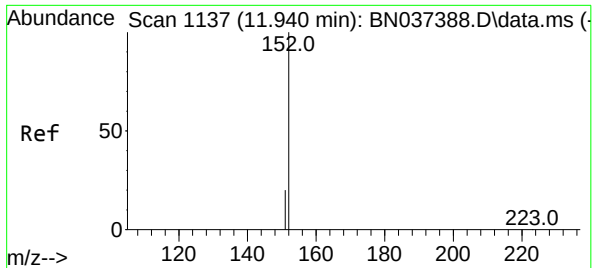
Tgt Ion:	128	Resp:	3612
Ion	Ratio	Lower	Upper
128	100		
129	13.8	10.4	15.6
127	16.2	12.2	18.4



#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.671 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:	225	Resp:	1565
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	49.9	74.9

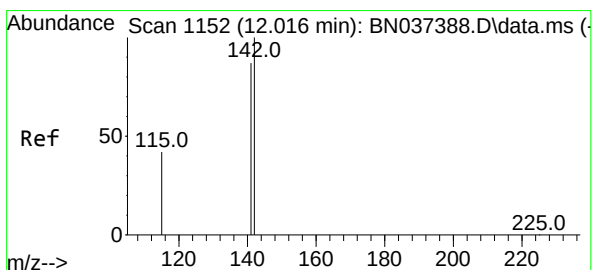
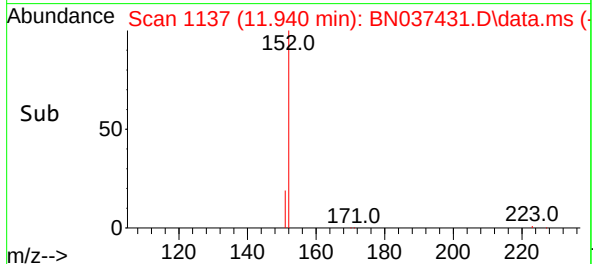
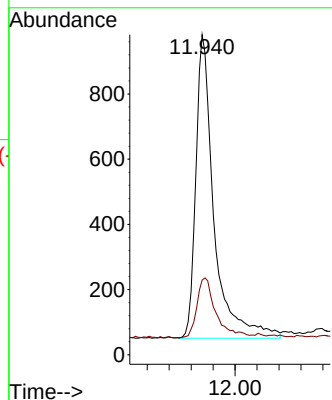
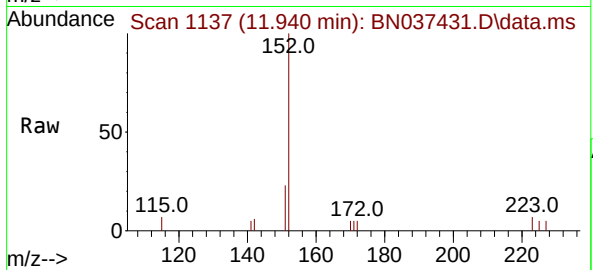




#11
2-Methylnaphthalene-d10
Concen: 0.381 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

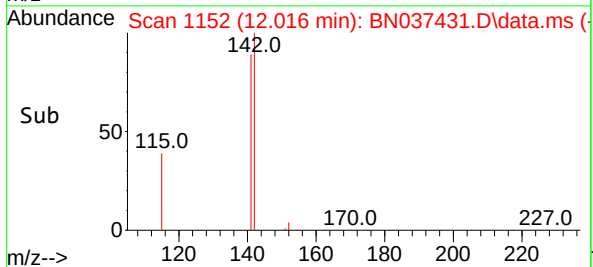
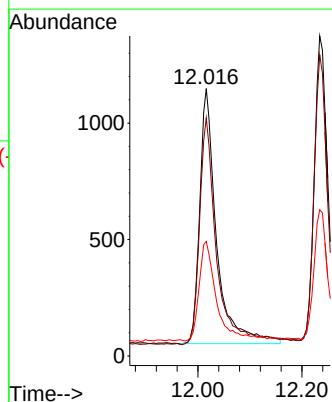
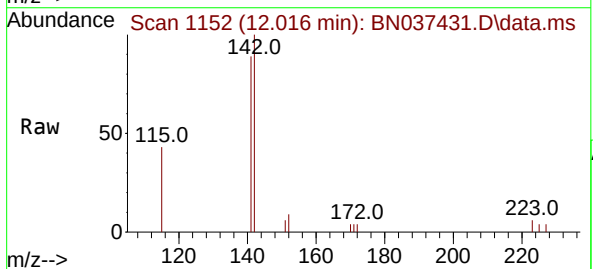
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

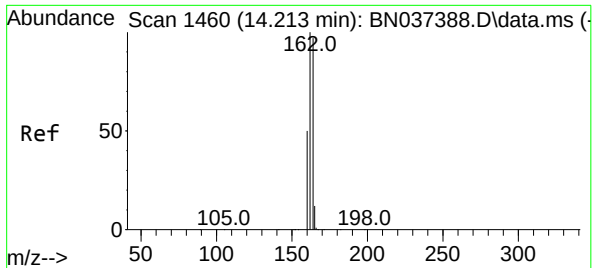
Tgt Ion:152 Resp: 2134
Ion Ratio Lower Upper
152 100
151 20.8 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:142 Resp: 2460
Ion Ratio Lower Upper
142 100
141 89.0 70.1 105.1
115 42.9 35.8 53.6

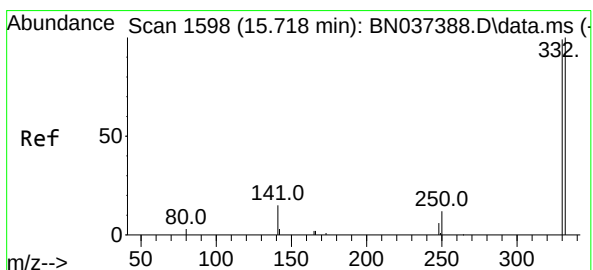
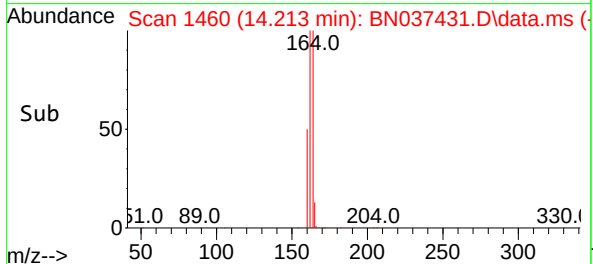
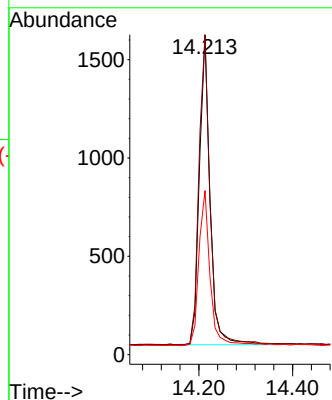
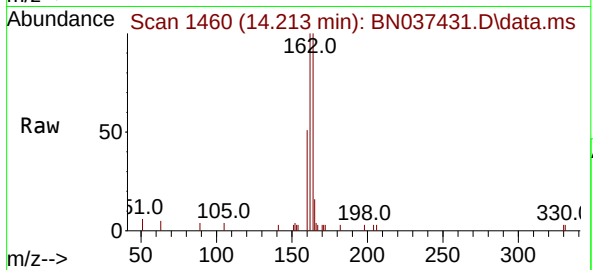




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

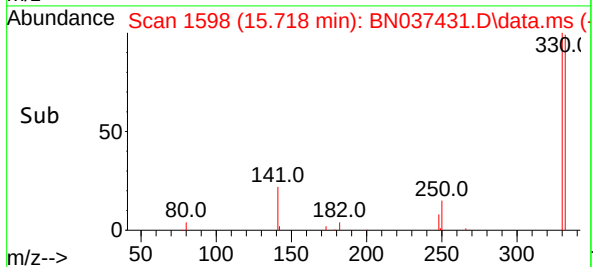
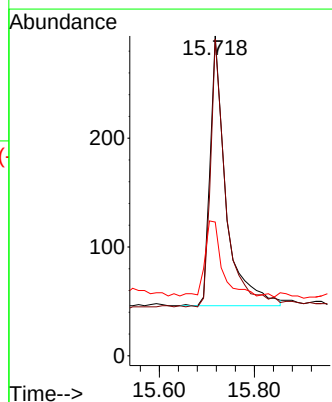
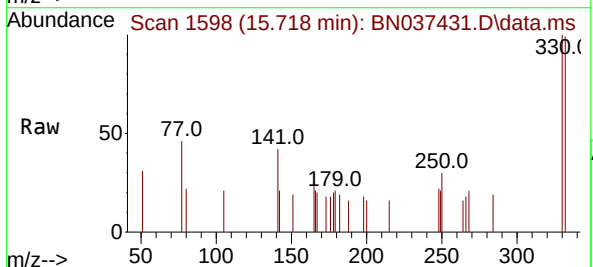
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

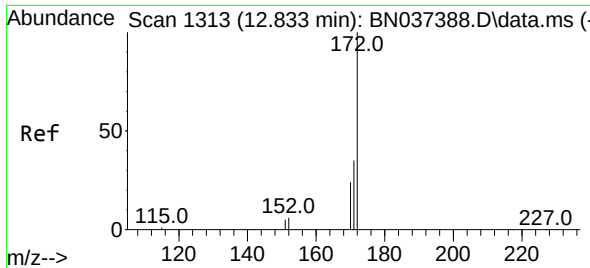
Tgt Ion:164 Resp: 2506
Ion Ratio Lower Upper
164 100
162 100.4 82.6 123.8
160 51.4 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.393 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:330 Resp: 577
Ion Ratio Lower Upper
330 100
332 96.4 77.8 116.8
141 29.6 24.0 36.0

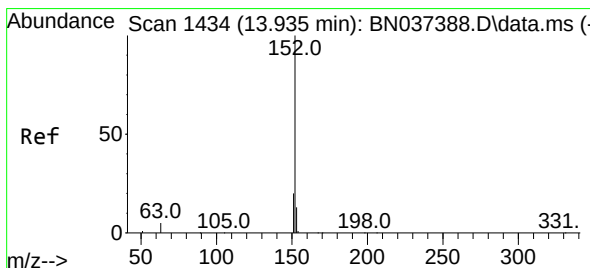
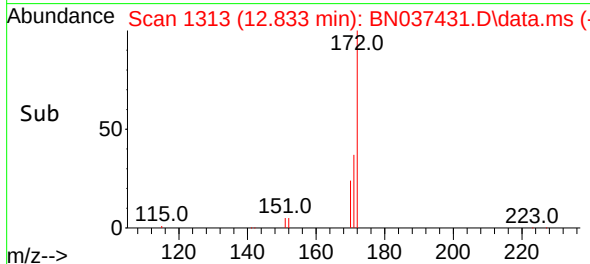
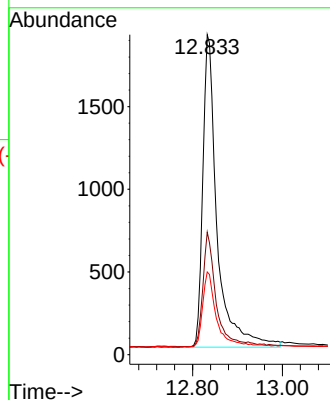
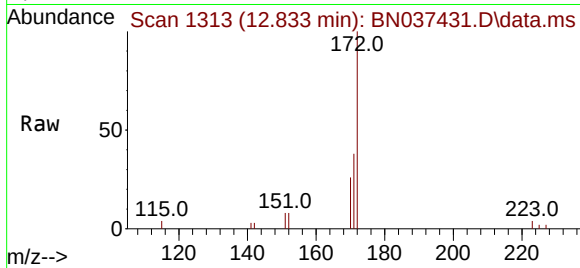




#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

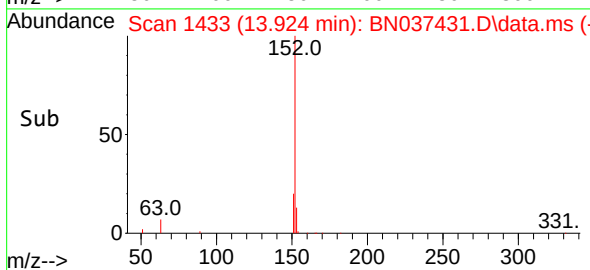
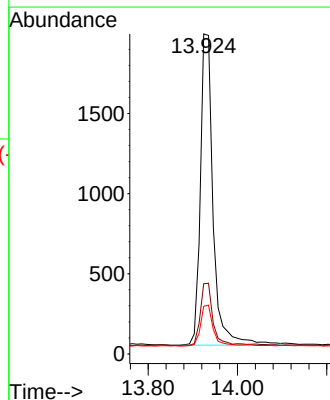
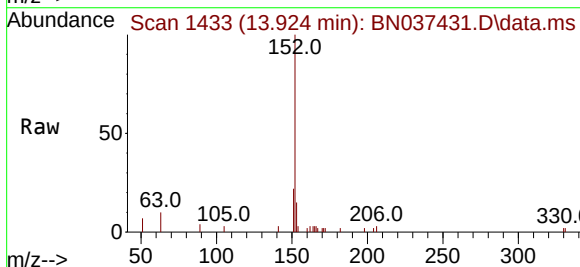
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

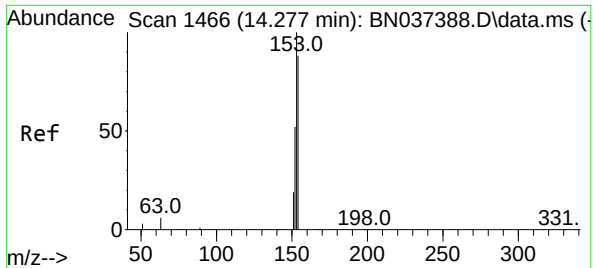
Tgt Ion:	172	Resp:	4161
Ion Ratio	Lower	Upper	
172	100		
171	38.3	28.8	43.2
170	25.8	20.3	30.5



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:	152	Resp:	3879
Ion Ratio	Lower	Upper	
152	100		
151	20.3	15.8	23.6
153	13.0	10.3	15.5

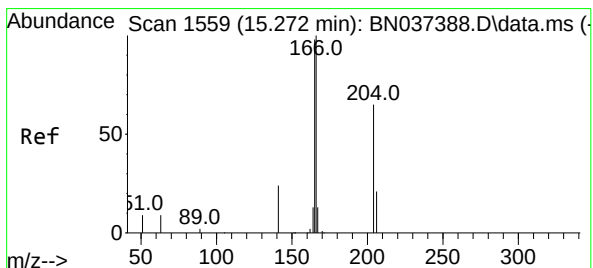
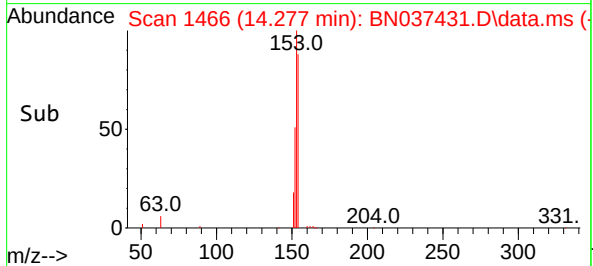
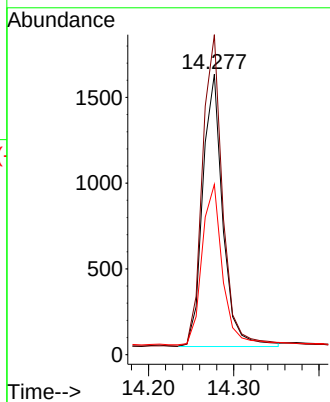
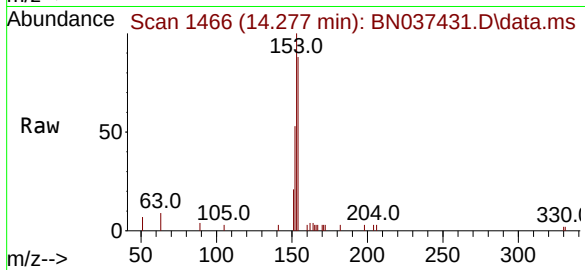




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

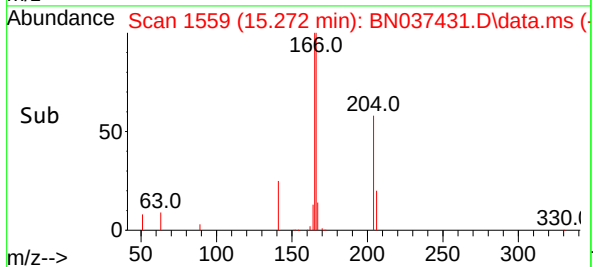
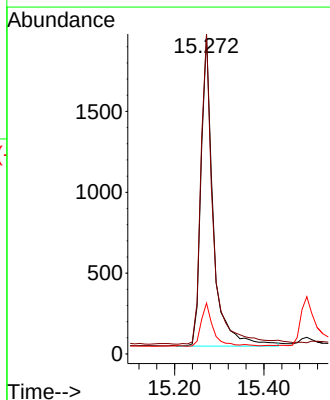
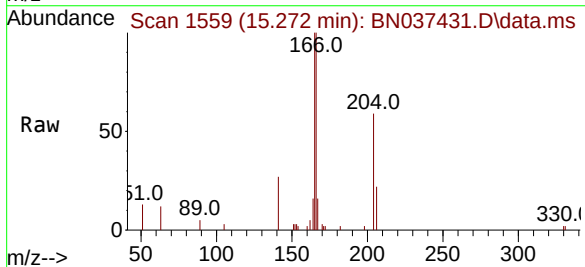
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

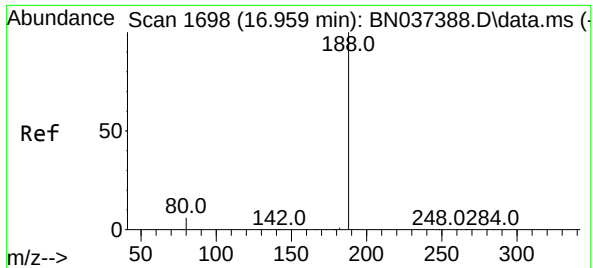
Tgt Ion:154 Resp: 2591
Ion Ratio Lower Upper
154 100
153 116.5 94.6 141.8
152 61.1 50.2 75.2



#18
Fluorene
Concen: 0.380 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:166 Resp: 3645
Ion Ratio Lower Upper
166 100
165 98.6 79.4 119.2
167 13.4 10.6 15.8

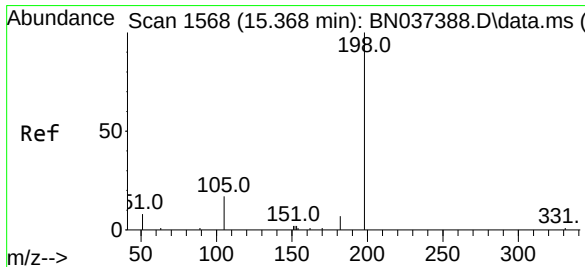
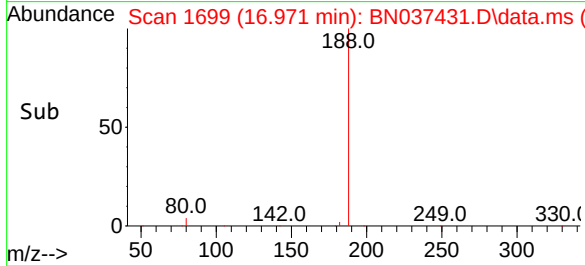
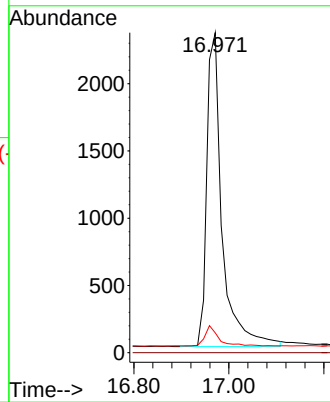
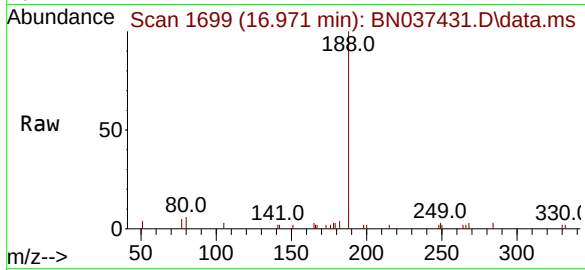




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

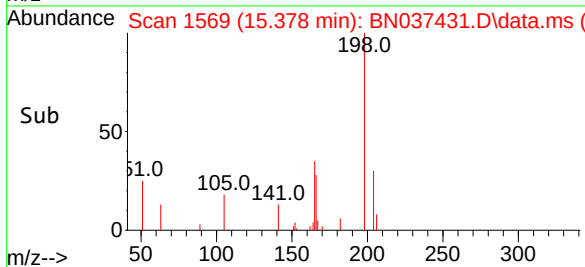
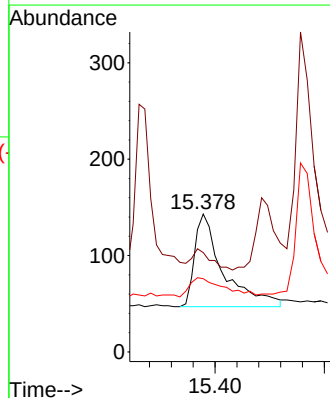
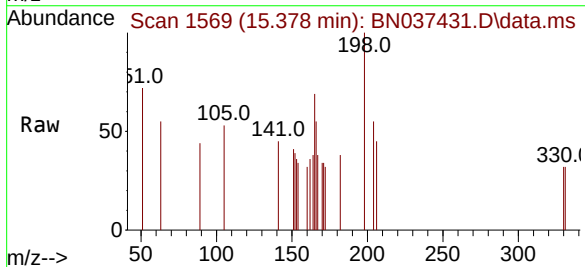
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

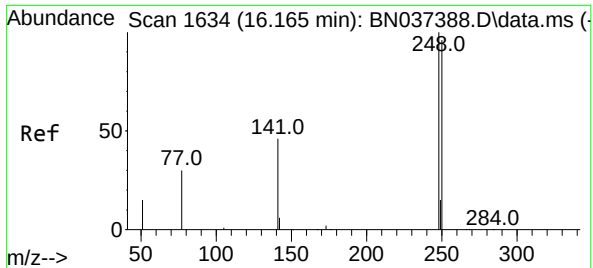
Tgt Ion:188 Resp: 5228
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.2 6.2 9.4#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.262 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:198 Resp: 352
Ion Ratio Lower Upper
198 100
51 72.0 38.8 58.2#
105 53.1 29.8 44.6#

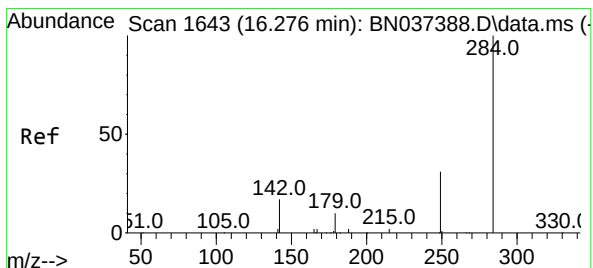
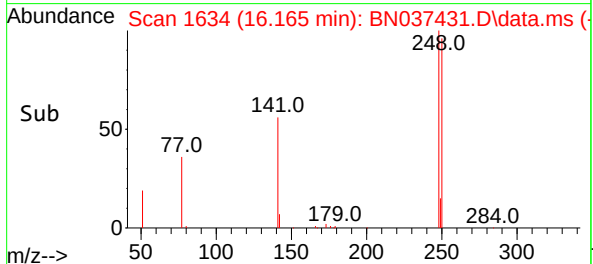
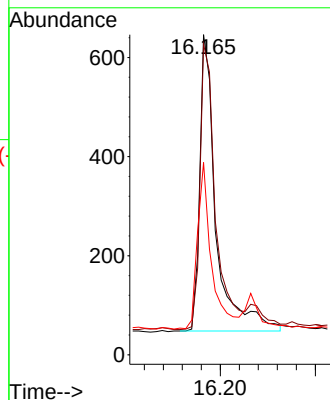
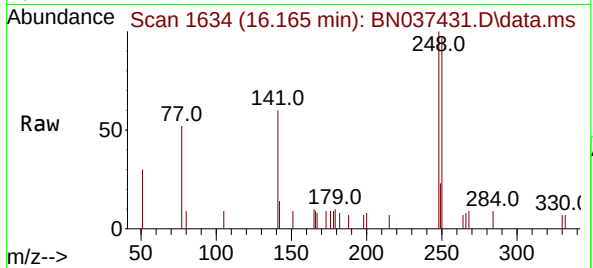




#21
4-Bromophenyl-phenylether
Concen: 0.387 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

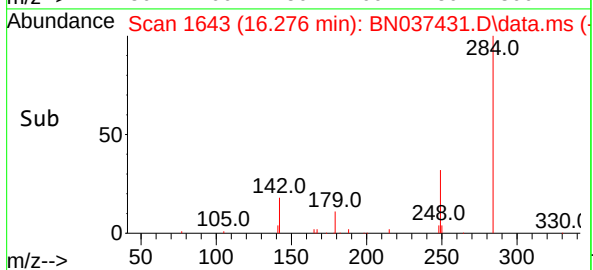
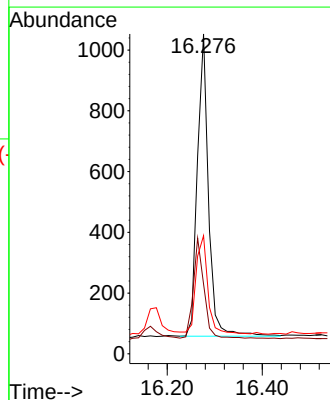
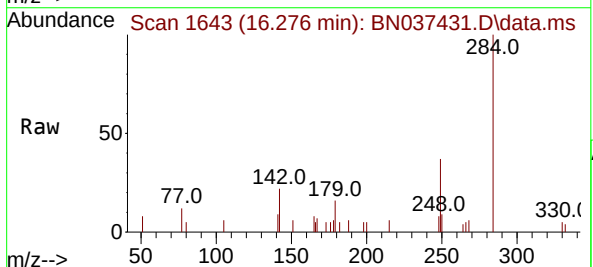
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

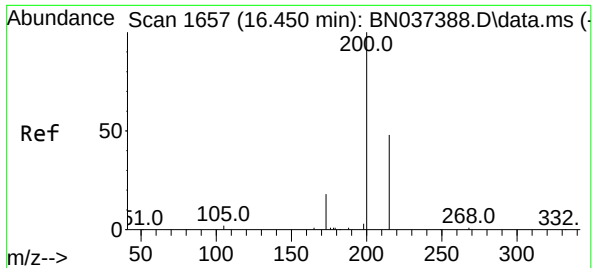
Tgt Ion:248 Resp: 1426
Ion Ratio Lower Upper
248 100
250 97.1 77.0 115.4
141 60.1 38.7 58.1#



#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:284 Resp: 1617
Ion Ratio Lower Upper
284 100
142 32.8 27.2 40.8
249 34.8 26.7 40.1

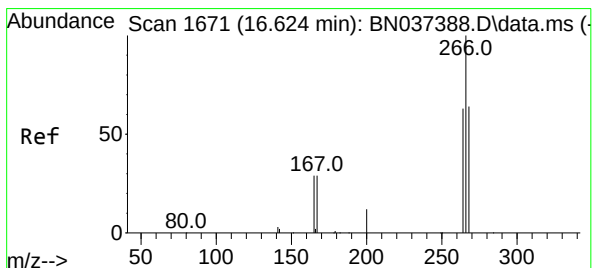
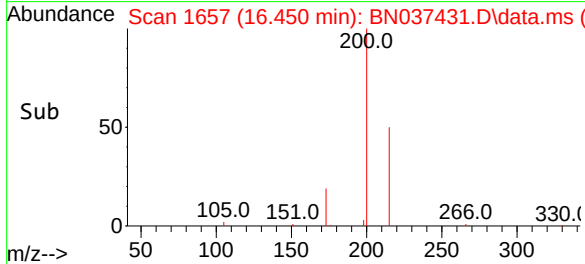
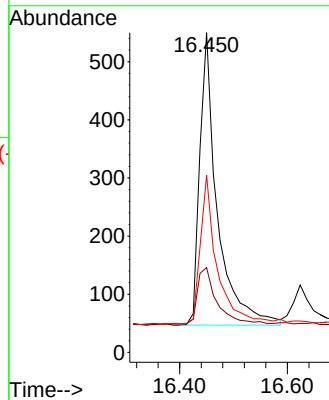
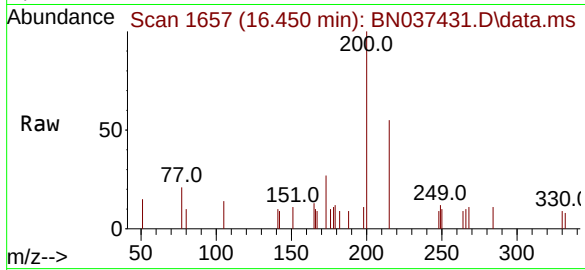




#23
Atrazine
Concen: 0.389 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

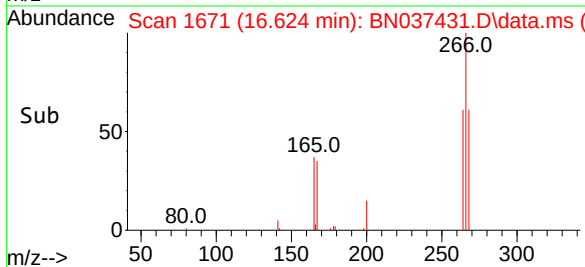
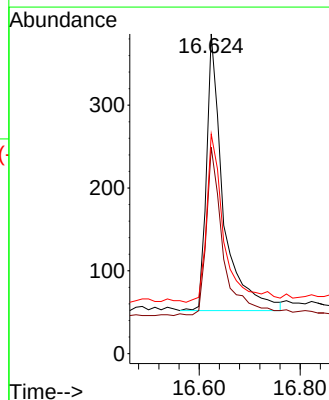
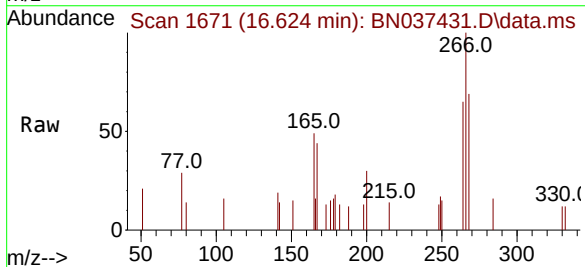
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

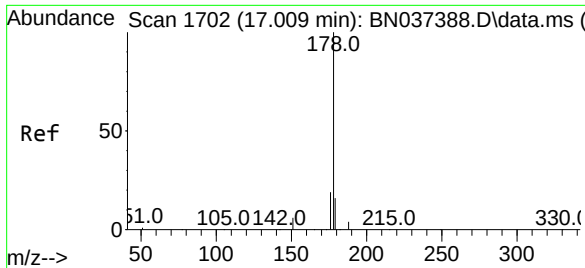
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.5	19.0	28.6
215	55.5	41.3	61.9



#24
Pentachlorophenol
Concen: 0.361 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.2	73.8
268	63.4	54.2	81.4

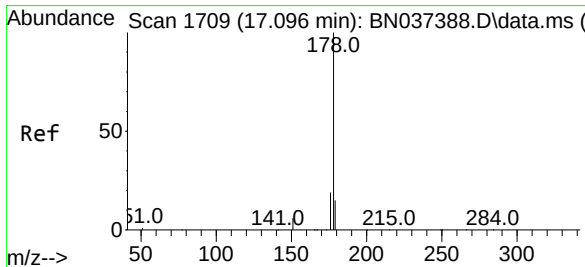
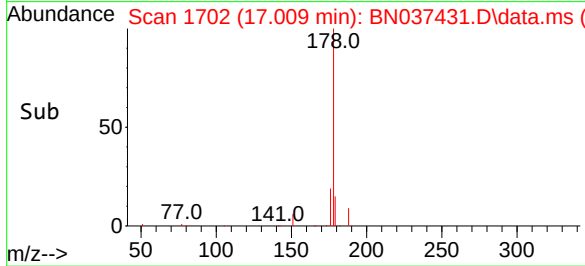
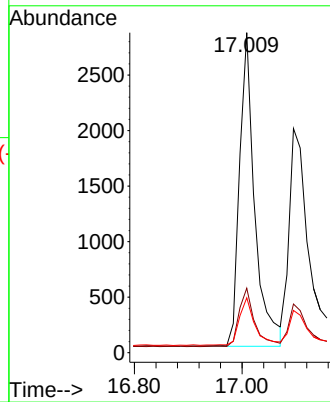
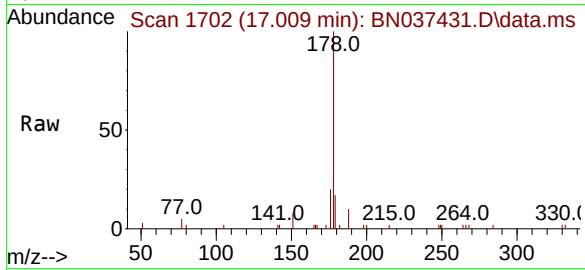




#25
Phenanthrene
Concen: 0.375 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

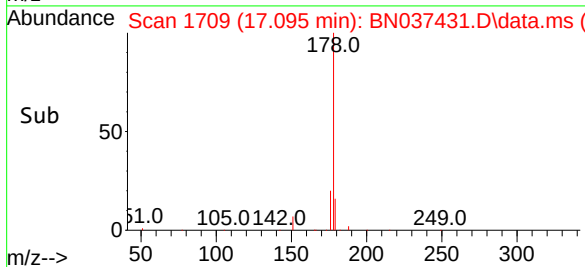
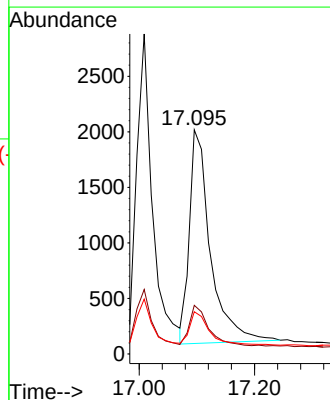
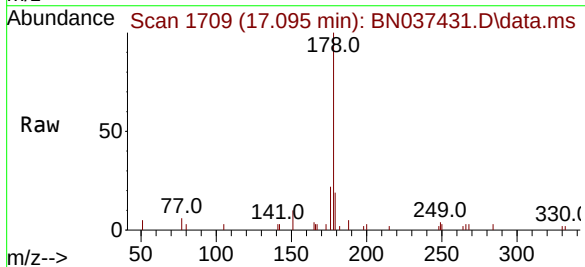
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

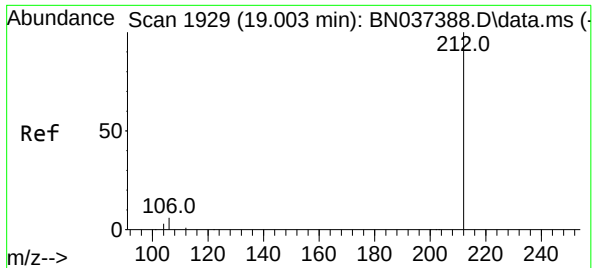
Tgt Ion:	178	Resp:	5527
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.6	23.4
179	15.7	12.8	19.2



#26
Anthracene
Concen: 0.358 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:	178	Resp:	4852
Ion Ratio	Lower	Upper	
178	100		
176	18.4	14.9	22.3
179	15.4	12.4	18.6





#27

Fluoranthene-d10

Concen: 0.394 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

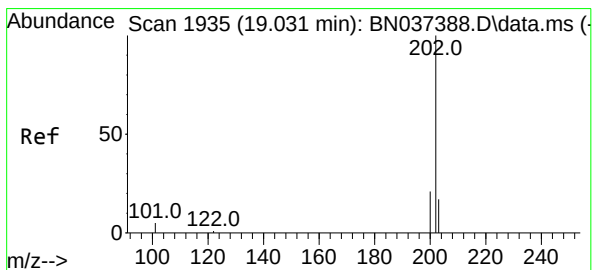
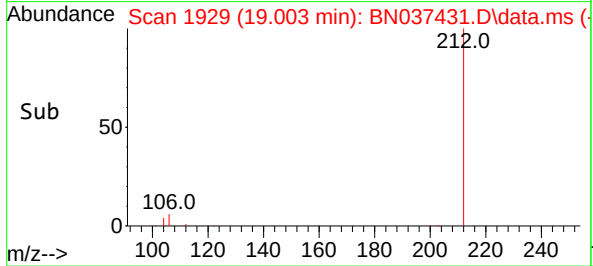
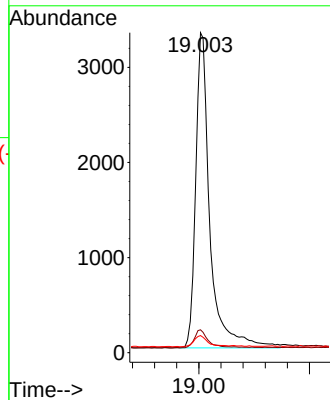
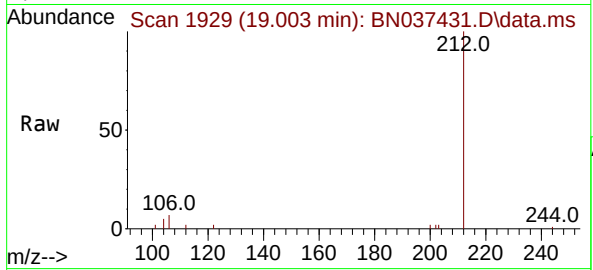
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	212	Resp:	5908
Ion Ratio	Lower	Upper	
212	100		
106	5.6	4.5	6.7
104	3.4	2.7	4.1



#28

Fluoranthene

Concen: 0.396 ng

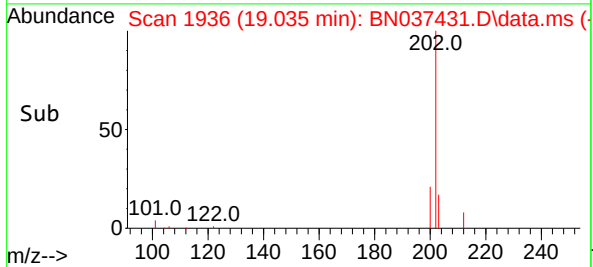
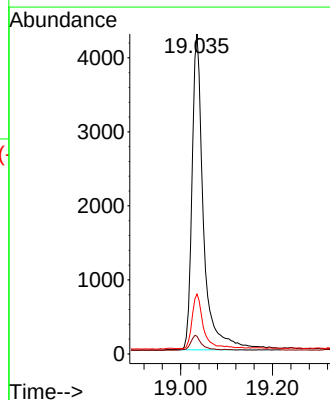
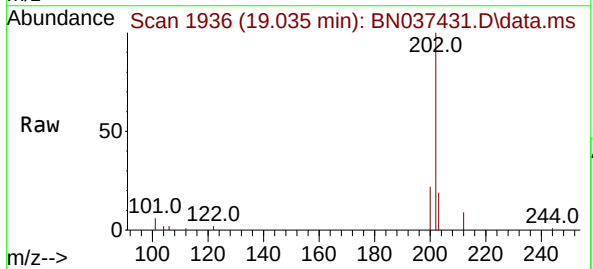
RT: 19.035 min Scan# 1936

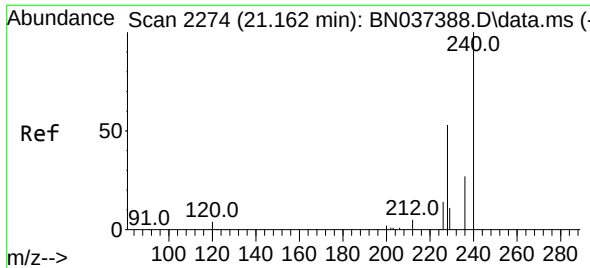
Delta R.T. 0.005 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

Tgt Ion:	202	Resp:	7451
Ion Ratio	Lower	Upper	
202	100		
101	4.4	3.8	5.6
203	16.7	13.5	20.3

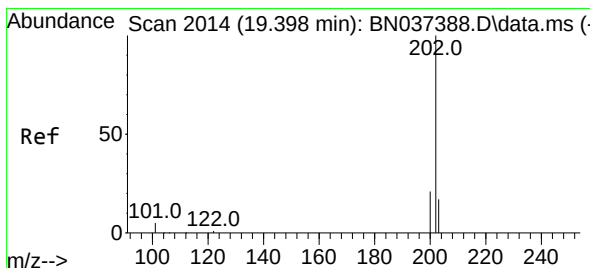
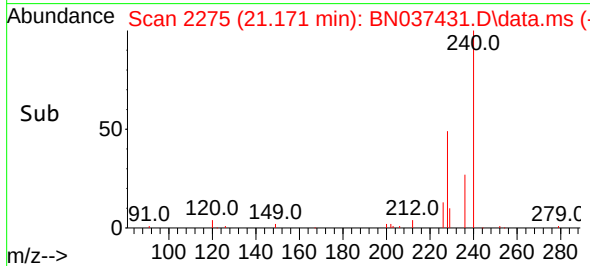
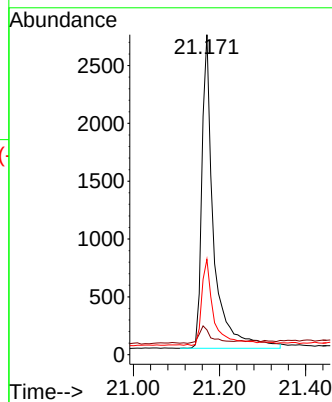
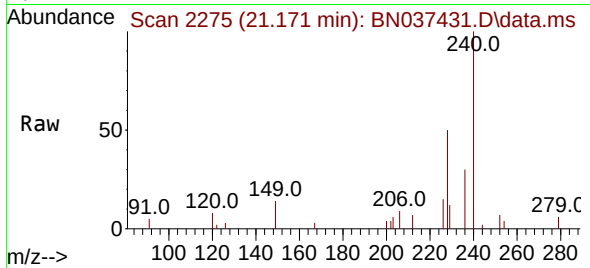




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2117
Delta R.T. 0.009 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

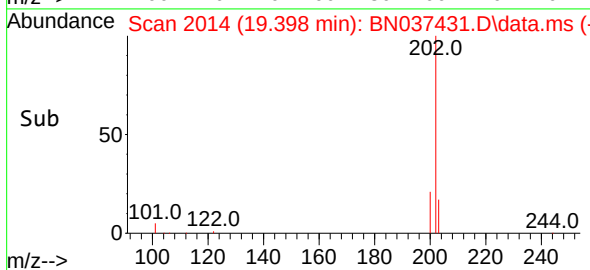
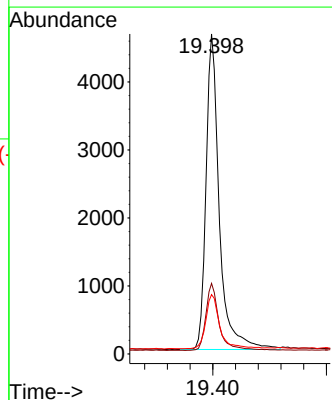
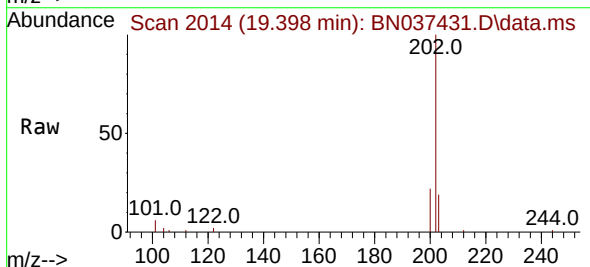
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

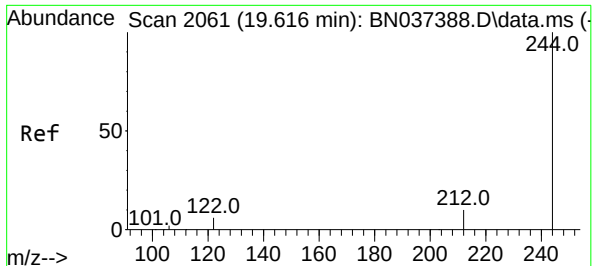
Tgt Ion:240 Resp: 5147
Ion Ratio Lower Upper
240 100
120 7.8 5.3 7.9
236 29.8 22.7 34.1



#30
Pyrene
Concen: 0.386 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:202 Resp: 7521
Ion Ratio Lower Upper
202 100
200 21.1 16.5 24.7
203 18.2 14.2 21.2

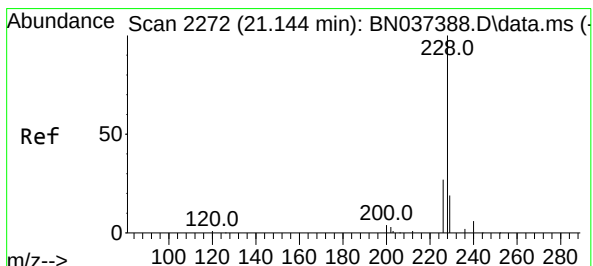
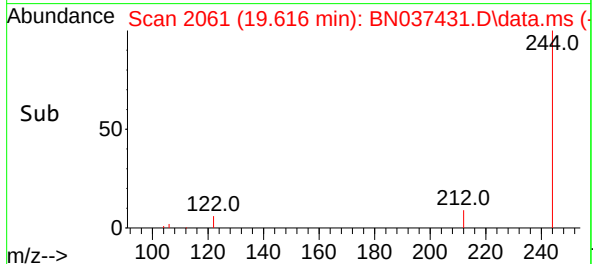
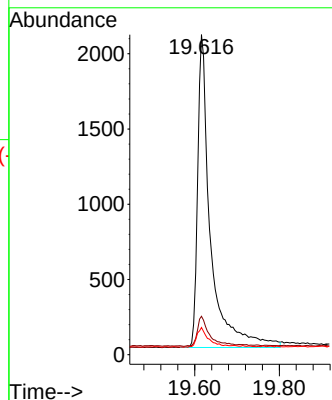
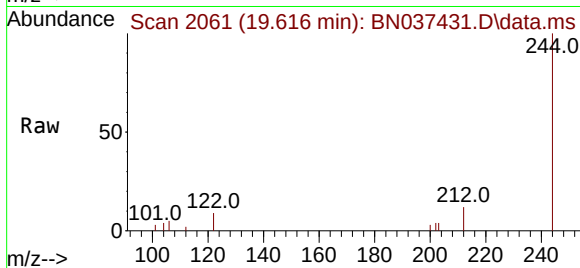




#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

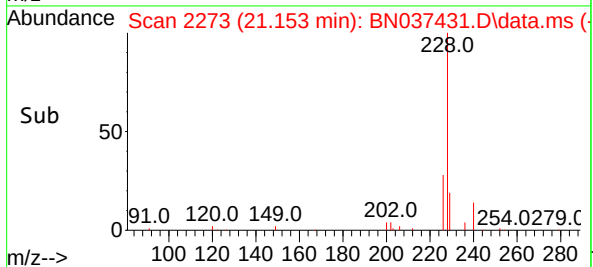
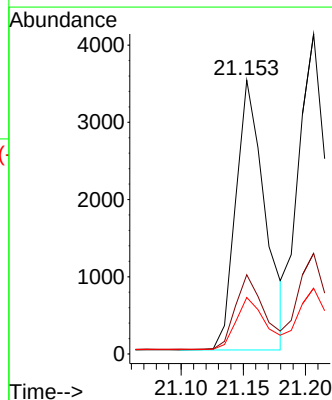
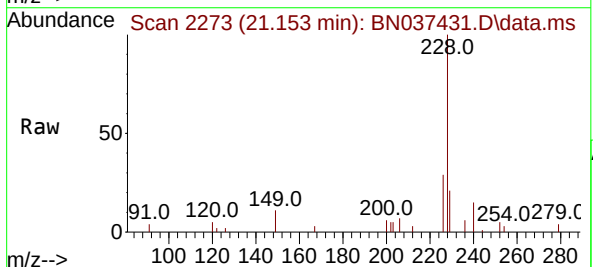
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

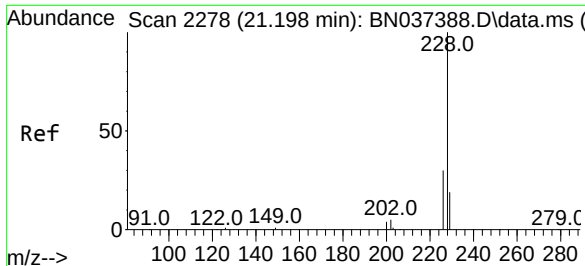
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.1	13.7
122	8.5	6.3	9.5



#32
Benzo(a)anthracene
Concen: 0.353 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	34.0
229	20.6	16.2	24.2





#33

Chrysene

Concen: 0.402 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

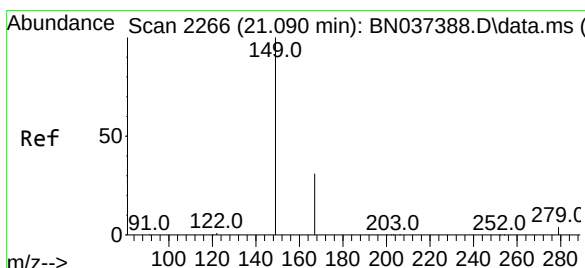
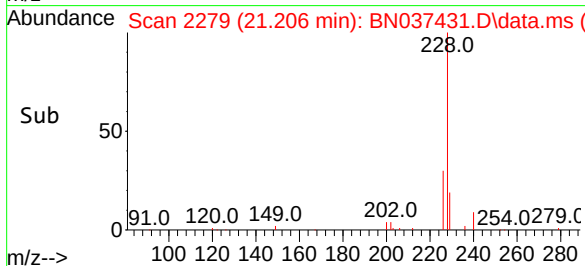
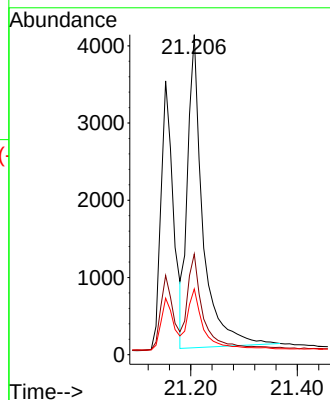
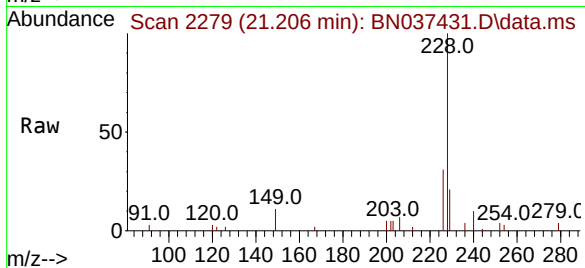
Tgt Ion:228 Resp: 8055

Ion Ratio Lower Upper

228 100

226 31.4 24.5 36.7

229 20.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.427 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.009 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

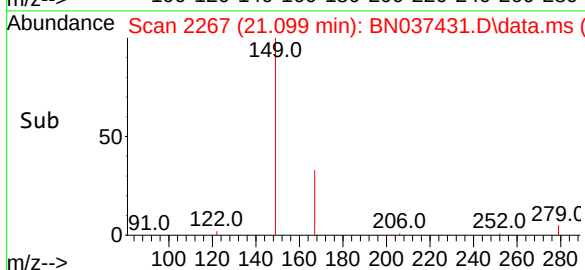
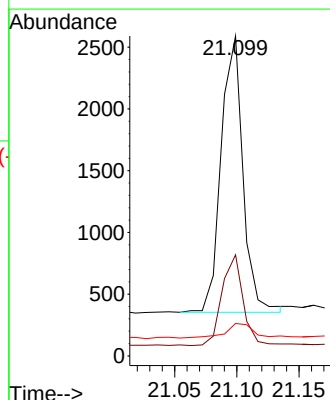
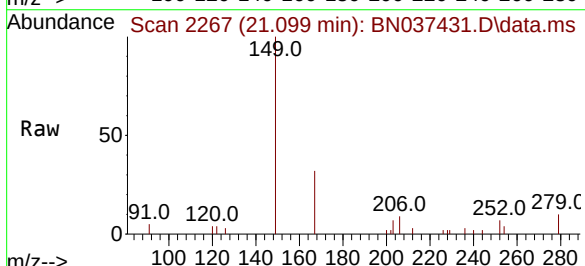
Tgt Ion:149 Resp: 2734

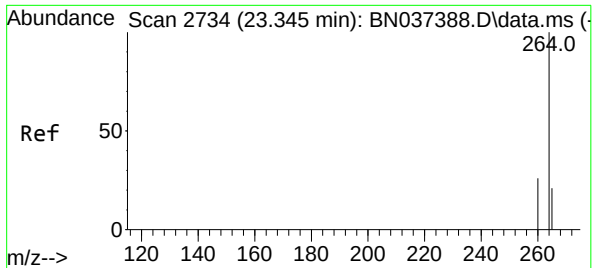
Ion Ratio Lower Upper

149 100

167 32.4 24.8 37.2

279 7.1 5.0 7.6

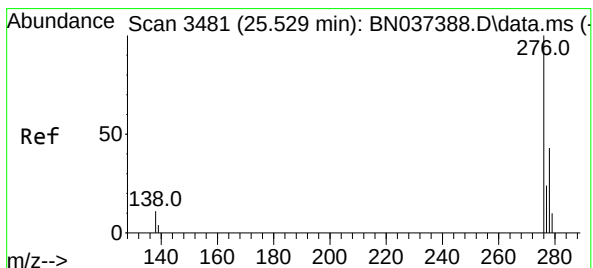
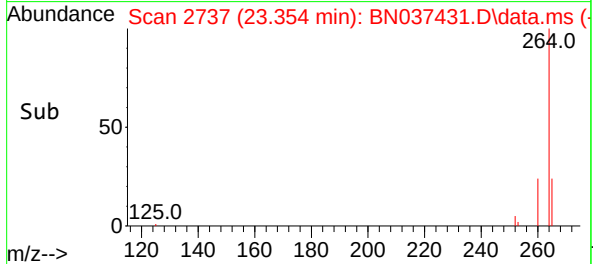
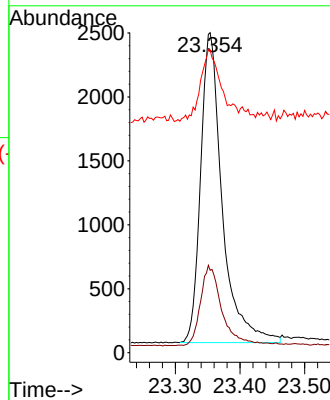
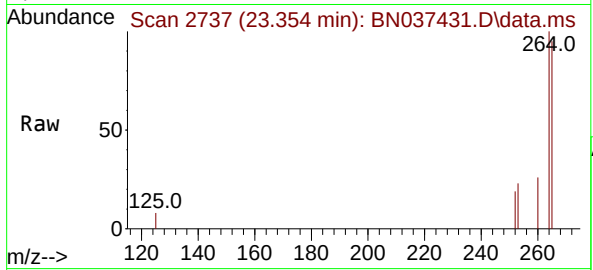




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

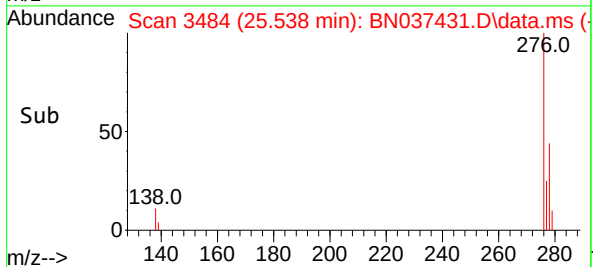
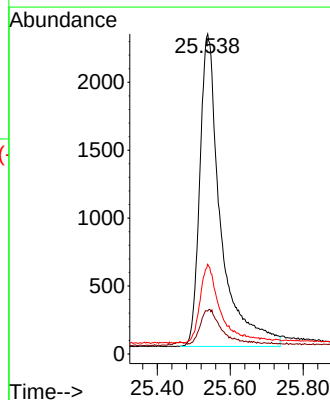
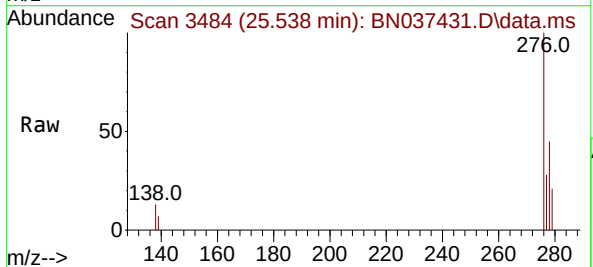
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

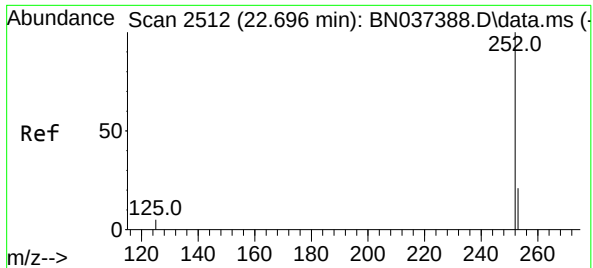
Tgt Ion:264 Resp: 5618
Ion Ratio Lower Upper
264 100
260 25.8 21.4 32.0
265 94.6 56.2 84.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.538 min Scan# 3484
Delta R.T. 0.009 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:276 Resp: 9152
Ion Ratio Lower Upper
276 100
138 10.0 8.5 12.7
277 22.7 19.7 29.5

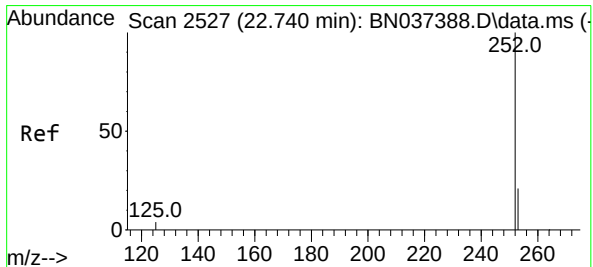
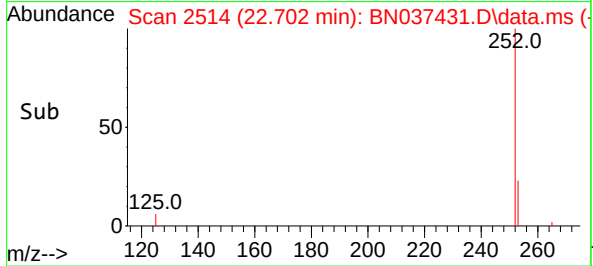
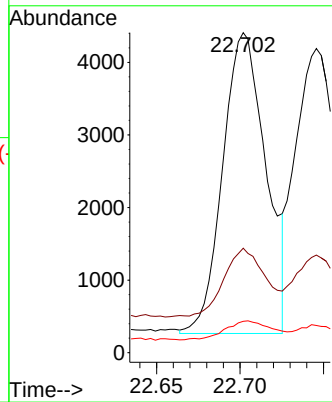
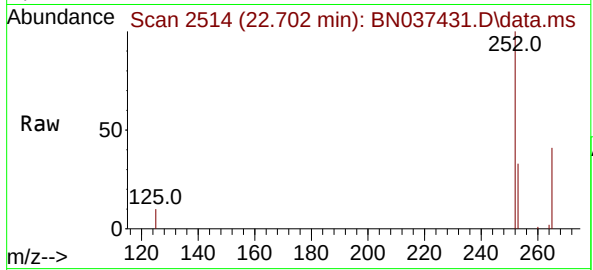




#37
Benzo(b)fluoranthene
Concen: 0.377 ng m
RT: 22.702 min Scan# 2512
Delta R.T. 0.006 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

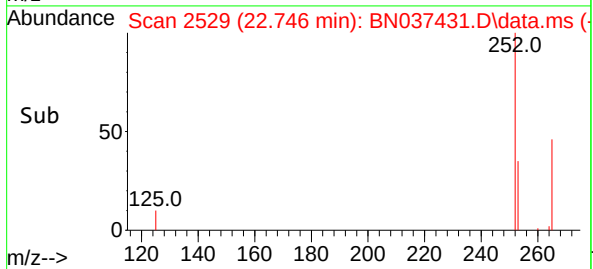
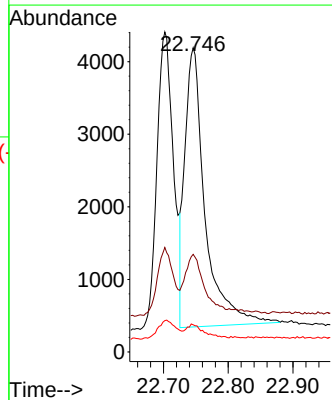
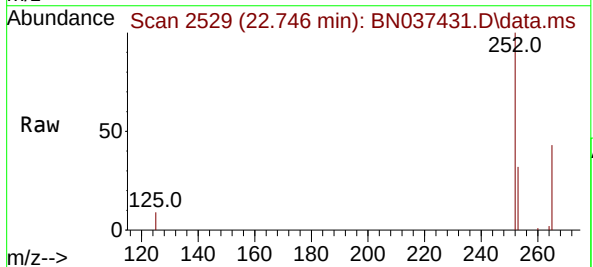
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

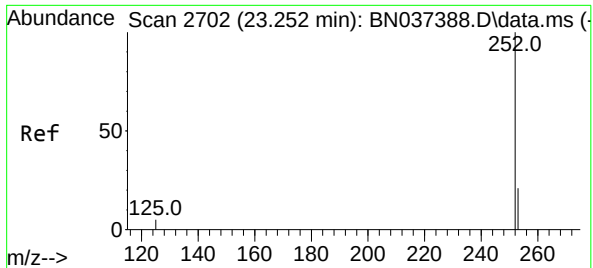
Tgt Ion:252 Resp: 7472
Ion Ratio Lower Upper
252 100
253 32.6 22.8 34.2
125 9.8 6.2 9.4#



#38
Benzo(k)fluoranthene
Concen: 0.394 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.006 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:252 Resp: 8339
Ion Ratio Lower Upper
252 100
253 32.1 23.2 34.8
125 8.9 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.260 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

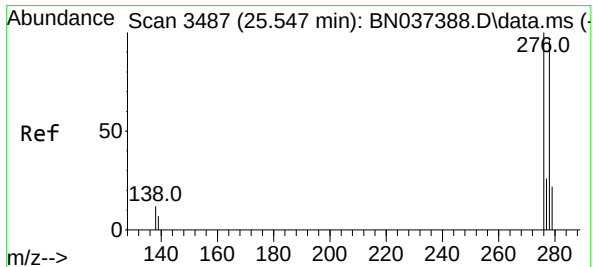
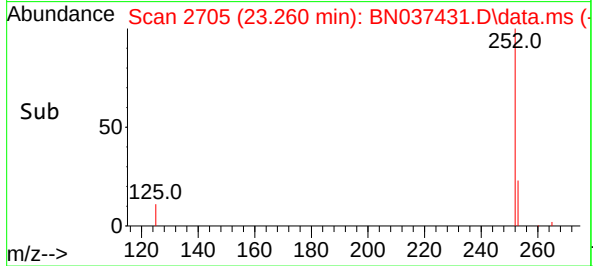
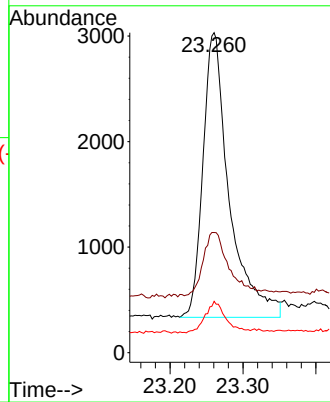
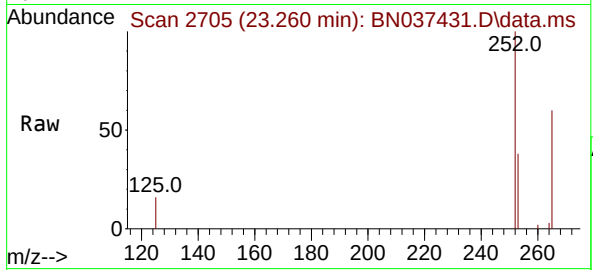
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252	Resp:	6760
Ion Ratio	Lower	Upper
252	100	
253	37.6	25.6 38.4
125	16.0	7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.370 ng

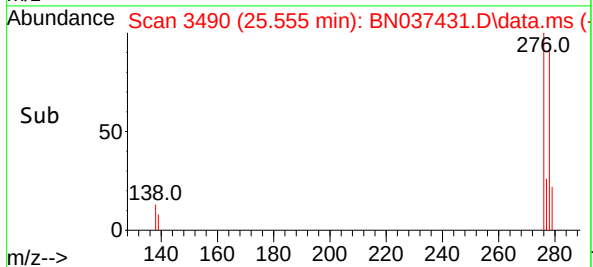
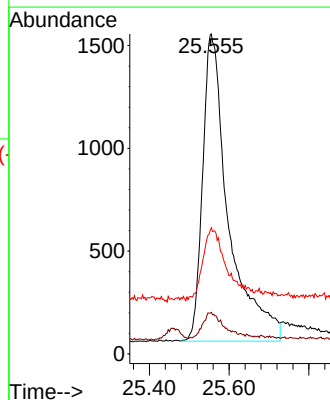
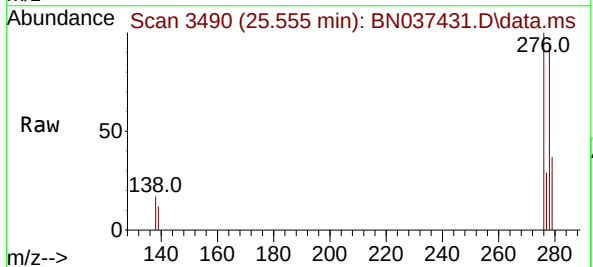
RT: 25.555 min Scan# 3490

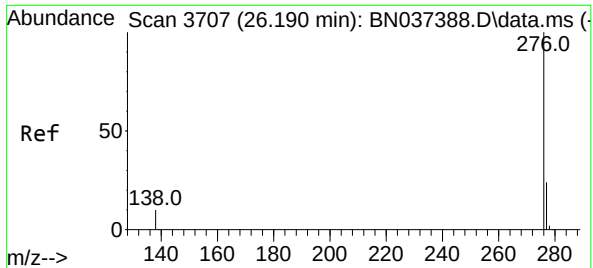
Delta R.T. 0.009 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

Tgt Ion:278	Resp:	6724
Ion Ratio	Lower	Upper
278	100	
139	13.0	8.5 12.7#
279	39.5	27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.396 ng

RT: 26.196 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN037431.D

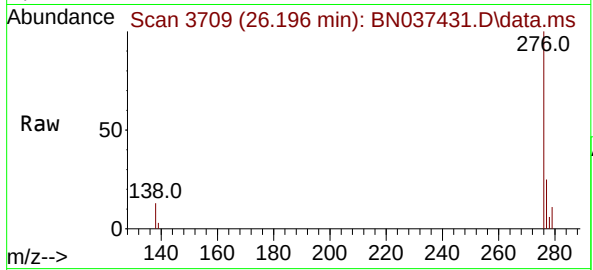
Acq: 02 Jul 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



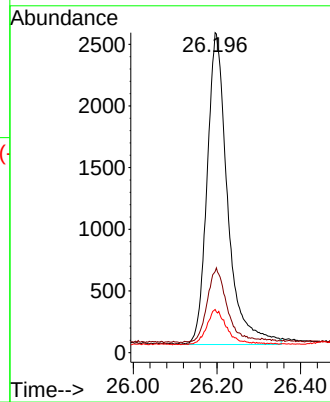
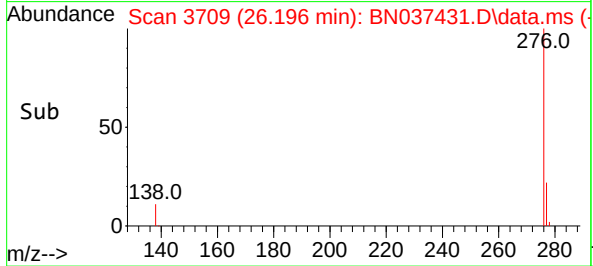
Tgt Ion:276 Resp: 8608

Ion Ratio Lower Upper

276 100

277 25.3 21.0 31.4

138 13.5 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
 Data File : BN037431.D
 Acq On : 02 Jul 2025 18:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 02 18:25:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 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	79	0.00
2	1,4-Dioxane	0.379	0.423	-11.6	91	0.00
3	n-Nitrosodimethylamine	0.375	0.351	6.4	75	0.00
4 S	2-Fluorophenol	0.771	0.806	-4.5	80	0.00
5 S	Phenol-d6	0.799	0.763	4.5	75	0.00
6	bis(2-Chloroethyl)ether	0.711	0.636	10.5	70	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	79	0.00
8 S	Nitrobenzene-d5	0.321	0.298	7.2	76	0.00
9	Naphthalene	1.030	0.997	3.2	79	-0.01
10	Hexachlorobutadiene	0.409	0.432	-5.6	83	-0.01
11 SURR	2-Methylnaphthalene-d10	0.619	0.589	4.8	81	0.00
12	2-Methylnaphthalene	0.709	0.679	4.2	79	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00
14 S	2,4,6-Tribromophenol	0.235	0.230	2.1	79	0.00
15 S	2-Fluorobiphenyl	1.727	1.660	3.9	79	0.00
16	Acenaphthylene	1.659	1.548	6.7	81	-0.01
17	Acenaphthene	1.083	1.034	4.5	81	0.00
18	Fluorene	1.530	1.455	4.9	81	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	83	0.01
20	4,6-Dinitro-2-methylphenol	0.103	0.067	35.0#	66	0.01
21	4-Bromophenyl-phenylether	0.282	0.273	3.2	84	0.00
22	Hexachlorobenzene	0.303	0.309	-2.0	85	0.00
23	Atrazine	0.224	0.217	3.1	85	0.00
24	Pentachlorophenol	0.164	0.148	9.8	80	0.00
25	Phenanthrene	1.127	1.057	6.2	81	0.00
26	Anthracene	1.036	0.928	10.4	80	0.00
27 SURR	Fluoranthene-d10	1.146	1.130	1.4	88	0.00
28	Fluoranthene	1.439	1.425	1.0	87	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	92	0.00
30	Pyrene	1.514	1.461	3.5	87	0.00
31 S	Terphenyl-d14	0.853	0.851	0.2	90	0.00
32	Benzo(a)anthracene	1.257	1.108	11.9	87	0.00
33	Chrysene	1.556	1.565	-0.6	91	0.00
34	Bis(2-ethylhexyl)phthalate	0.498	0.531	-6.6	97	0.00
35 I	Perylene-d12	1.000	1.000	0.0	94	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.629	3.4	98	0.00
37	Benzo(b)fluoranthene	1.410	1.330	5.7	95	0.00
38	Benzo(k)fluoranthene	1.507	1.484	1.5	96	0.00
39 C	Benzo(a)pyrene	1.254	1.203	4.1	96	0.00
40	Dibenzo(a,h)anthracene	1.296	1.197	7.6	93	0.00
41	Benzo(g,h,i)perylene	1.548	1.532	1.0	98	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037431.D
Acq On : 02 Jul 2025 18:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jul 02 18:25:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	79	0.00
2	1,4-Dioxane	0.400	0.446	-11.5	91	0.00
3	n-Nitrosodimethylamine	0.400	0.375	6.3	75	0.00
4 S	2-Fluorophenol	0.400	0.418	-4.5	80	0.00
5 S	Phenol-d6	0.400	0.382	4.5	75	0.00
6	bis(2-Chloroethyl)ether	0.400	0.358	10.5	70	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	79	0.00
8 S	Nitrobenzene-d5	0.400	0.372	7.0	76	0.00
9	Naphthalene	0.400	0.387	3.3	79	-0.01
10	Hexachlorobutadiene	0.400	0.423	-5.7	83	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.381	4.8	81	0.00
12	2-Methylnaphthalene	0.400	0.383	4.3	79	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	82	0.00
14 S	2,4,6-Tribromophenol	0.400	0.393	1.8	79	0.00
15 S	2-Fluorobiphenyl	0.400	0.385	3.8	79	0.00
16	Acenaphthylene	0.400	0.373	6.8	81	-0.01
17	Acenaphthene	0.400	0.382	4.5	81	0.00
18	Fluorene	0.400	0.380	5.0	81	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	83	0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.262	34.5#	66	0.01
21	4-Bromophenyl-phenylether	0.400	0.387	3.3	84	0.00
22	Hexachlorobenzene	0.400	0.408	-2.0	85	0.00
23	Atrazine	0.400	0.389	2.8	85	0.00
24	Pentachlorophenol	0.400	0.361	9.8	80	0.00
25	Phenanthrene	0.400	0.375	6.3	81	0.00
26	Anthracene	0.400	0.358	10.5	80	0.00
27 SURR	Fluoranthene-d10	0.400	0.394	1.5	88	0.00
28	Fluoranthene	0.400	0.396	1.0	87	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	92	0.00
30	Pyrene	0.400	0.386	3.5	87	0.00
31 S	Terphenyl-d14	0.400	0.399	0.3	90	0.00
32	Benzo(a)anthracene	0.400	0.353	11.8	87	0.00
33	Chrysene	0.400	0.402	-0.5	91	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.427	-6.7	97	0.00
35 I	Perylene-d12	0.400	0.400	0.0	94	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.386	3.5	98	0.00
37	Benzo(b)fluoranthene	0.400	0.377	5.8	95	0.00
38	Benzo(k)fluoranthene	0.400	0.394	1.5	96	0.00
39 C	Benzo(a)pyrene	0.400	0.384	4.0	96	0.00
40	Dibenzo(a,h)anthracene	0.400	0.370	7.5	93	0.00
41	Benzo(g,h,i)perylene	0.400	0.396	1.0	98	0.00

(#) = Out of Range

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



QC SAMPLE DATA

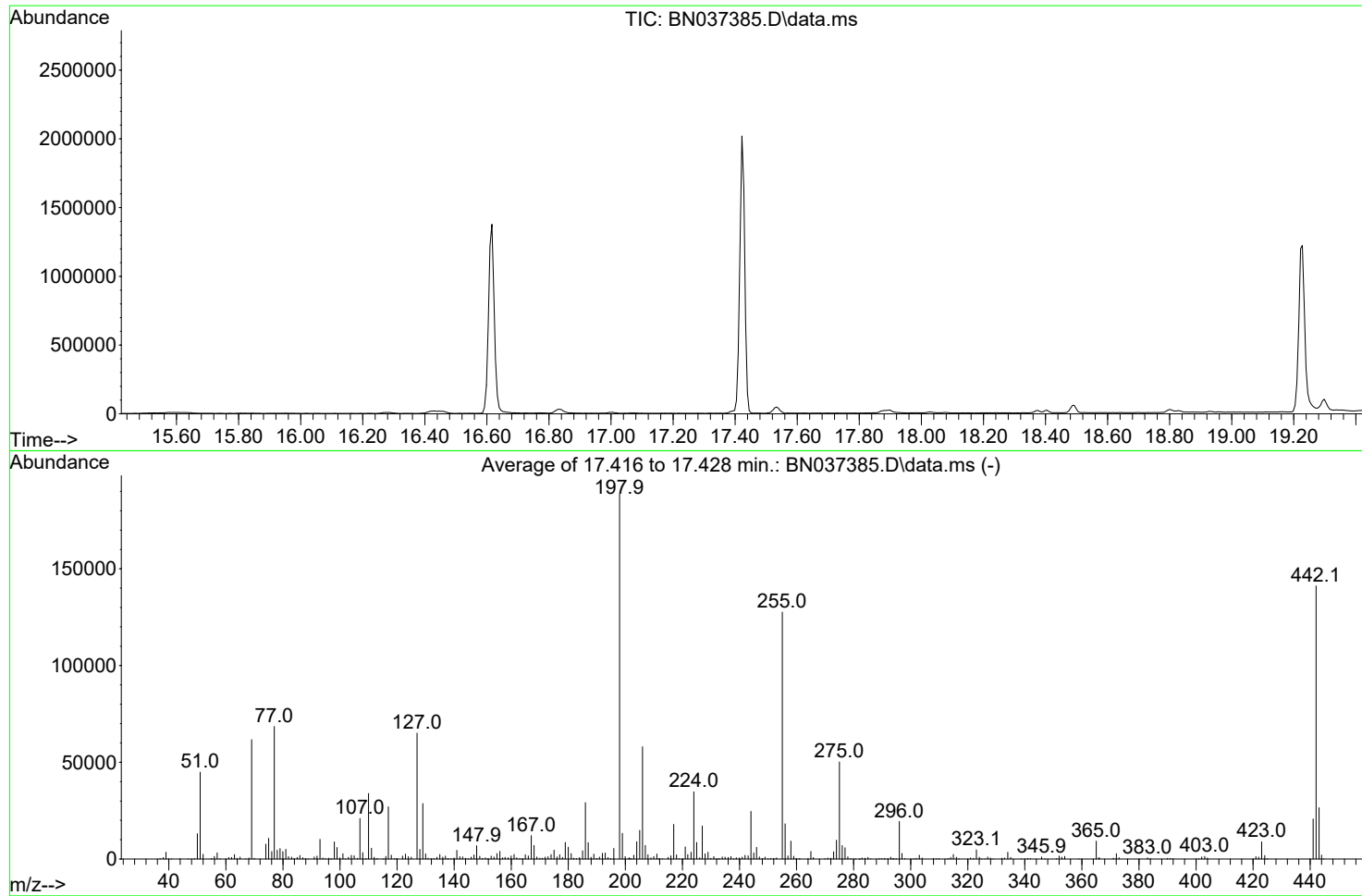
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 26 16:06:33 2025



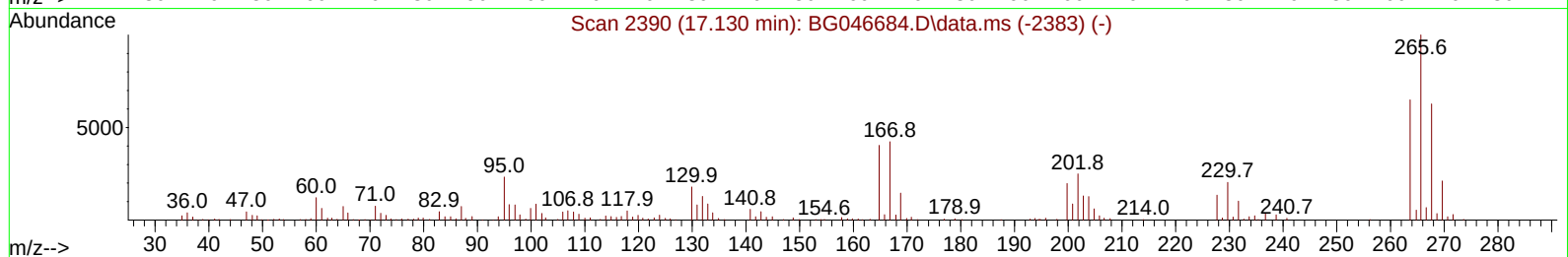
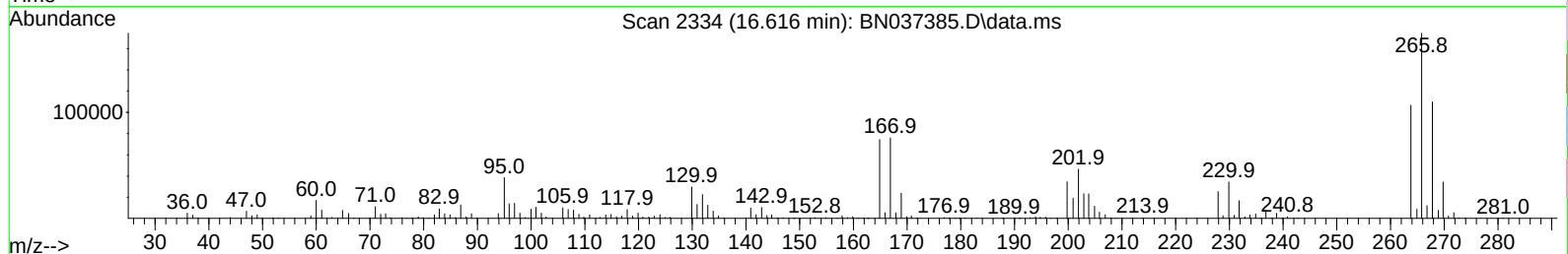
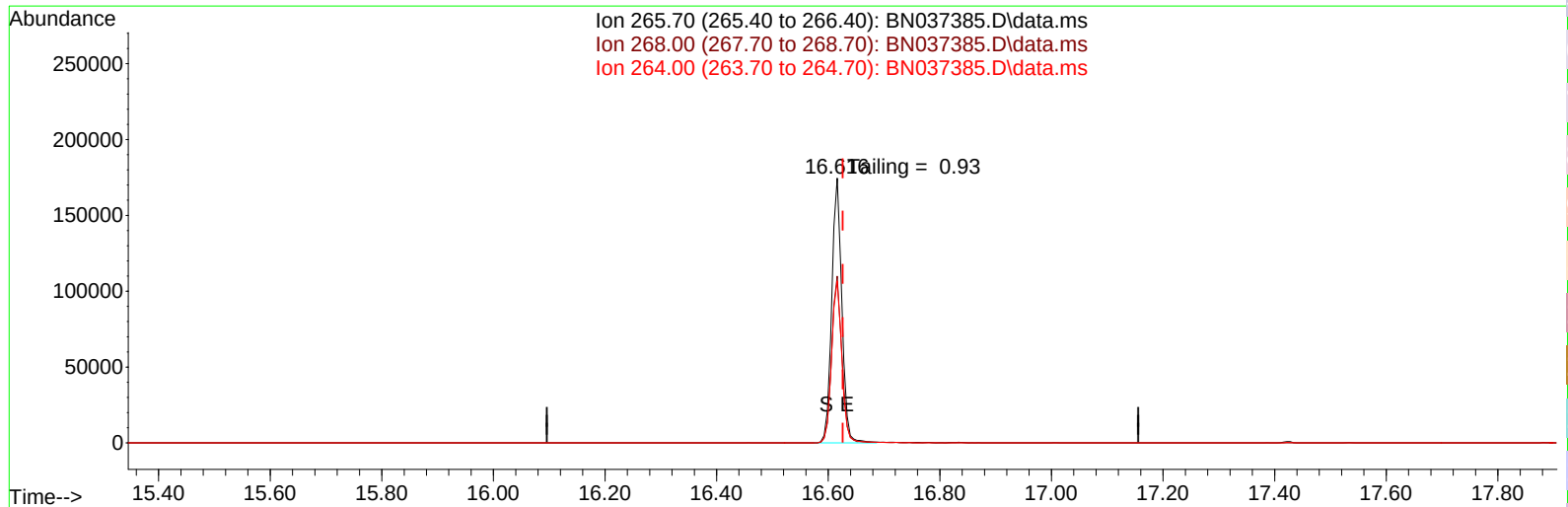
AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2464

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.9	565	PASS
69	69	100	100	100.0	61709	PASS
70	69	0.00	2	0.6	395	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	188693	PASS
199	198	5	9	7.1	13336	PASS
365	198	1	100	4.9	9289	PASS
441	443	0.01	150	78.0	20689	PASS
442	442	100	100	100.0	141205	PASS
443	442	15	24	18.8	26534	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 26 17:27:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration



TIC: BN037385.D\data.ms

(70) Pentachlorophenol (C)

16.616min (-0.010) 22827.65 ng

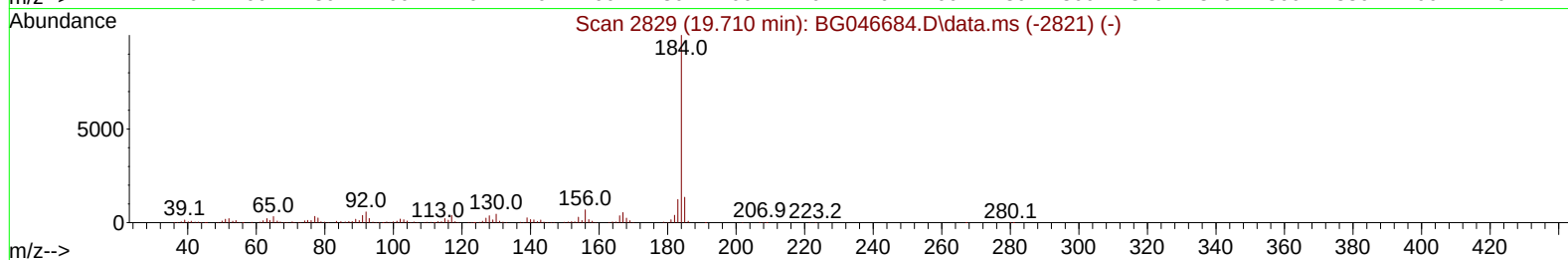
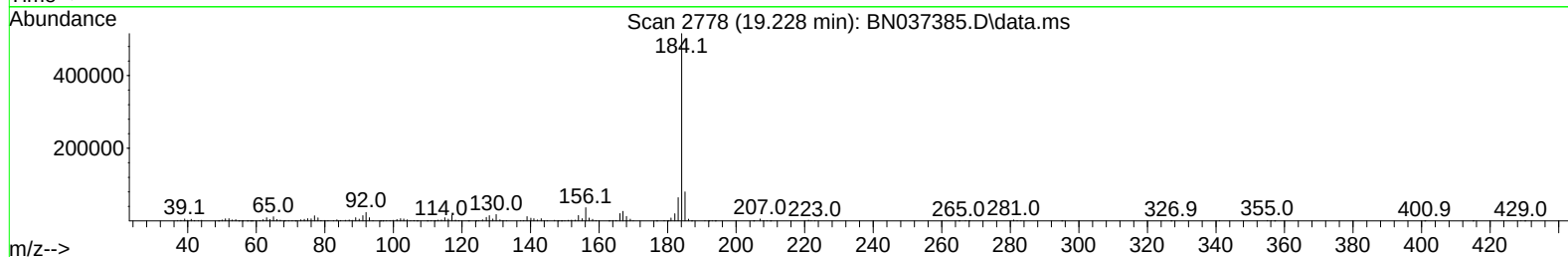
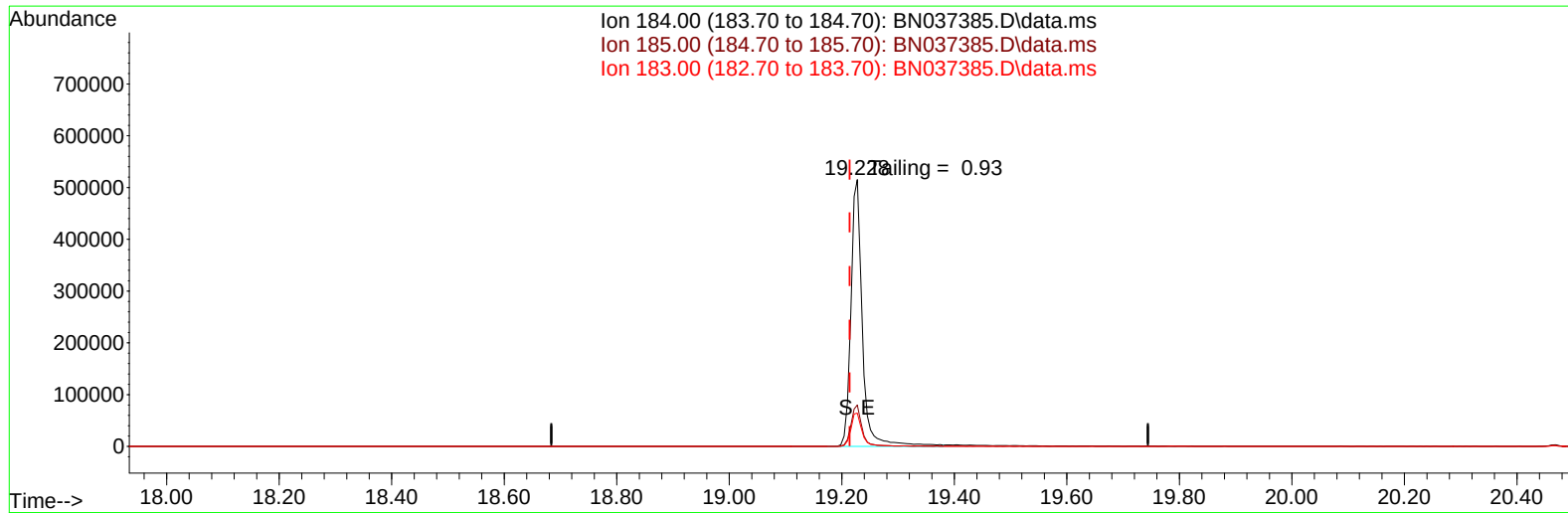
response 218916

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.95
264.00	61.60	61.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 26 17:27:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration



TIC: BN037385.D\data.ms

(77) Benzidine

19.228min (+ 0.014) 0.00 ng

response 733495

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.54
183.00	13.20	12.50
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

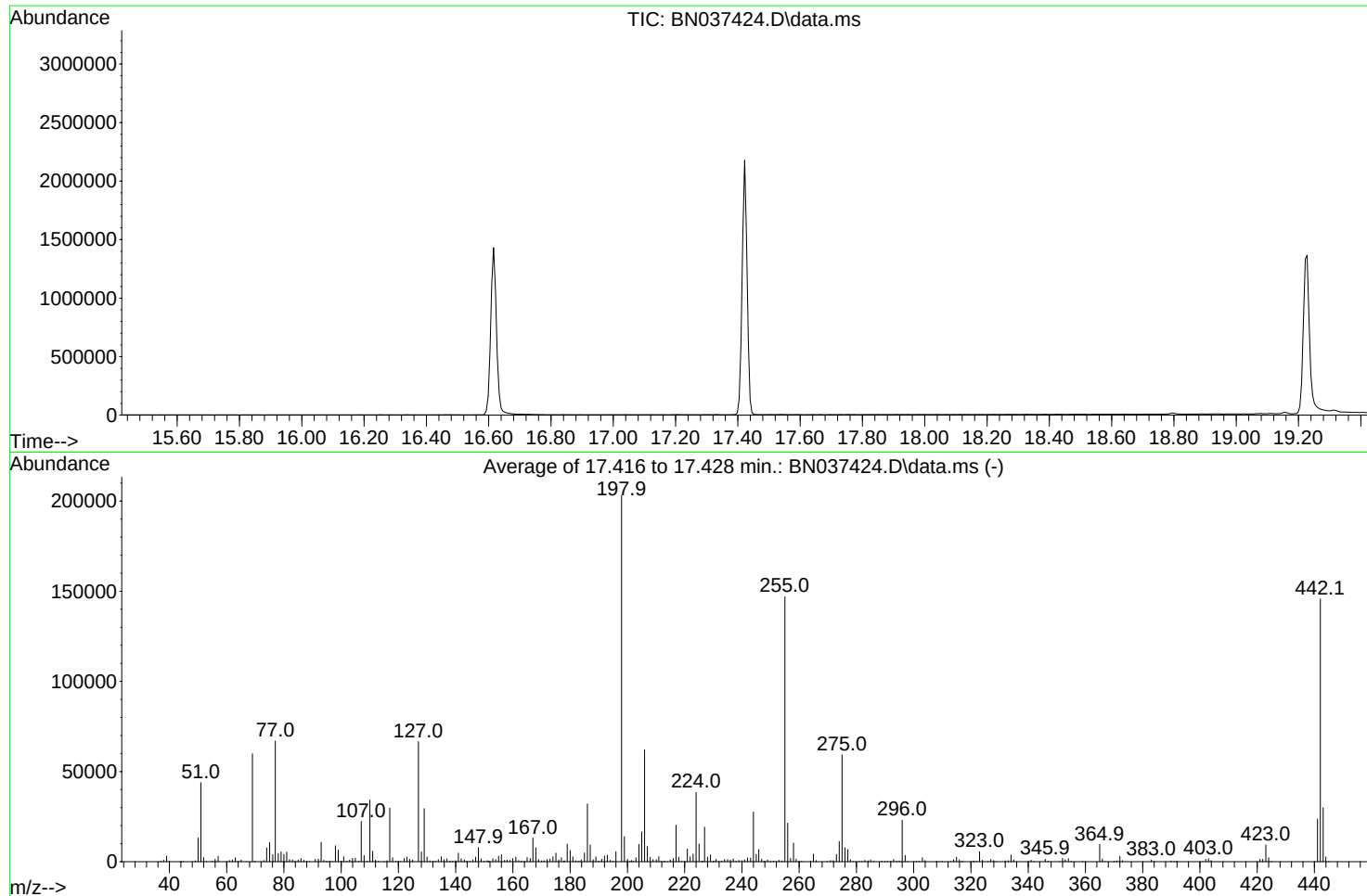
Date	Instrument Name	DFTPP Data File
6/26/2025	BNA_N	<u>BN037385.D</u>
Compound Name	Response	Retention Time
DDT	575237	20.469
DDD	9375	20.028
DDE	1379	19.516
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10754	585991	1.84

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037424.D
Acq On : 02 Jul 2025 13:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 26 16:06:33 2025



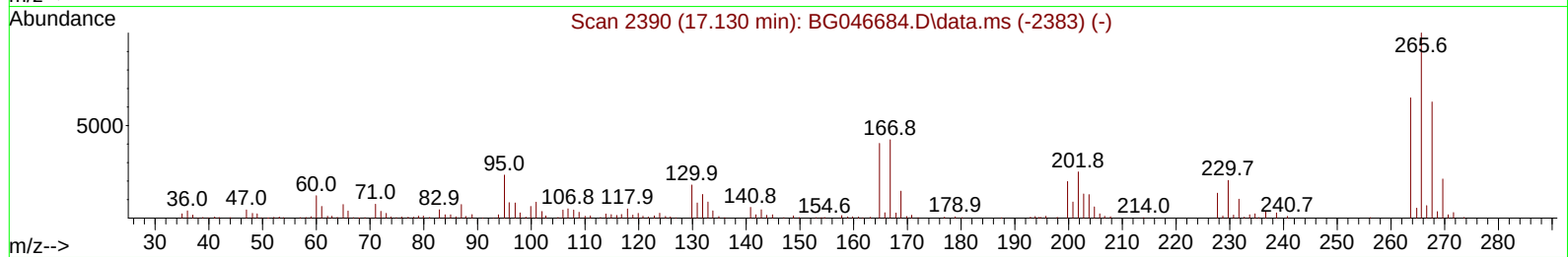
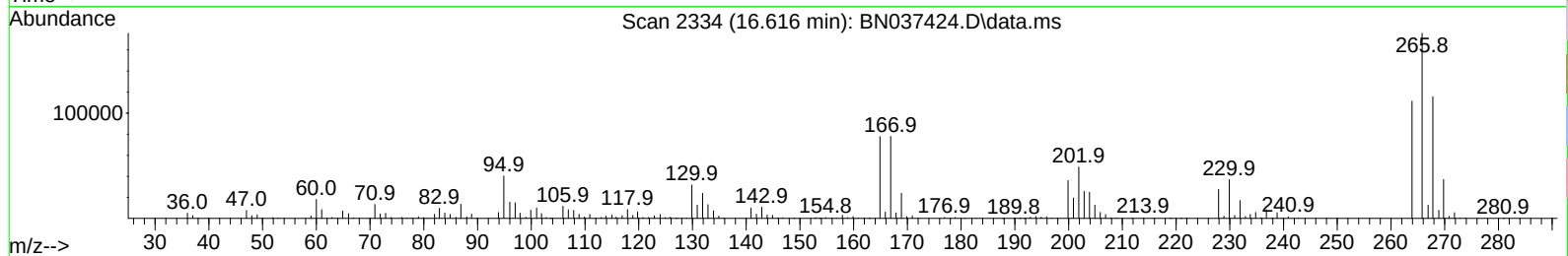
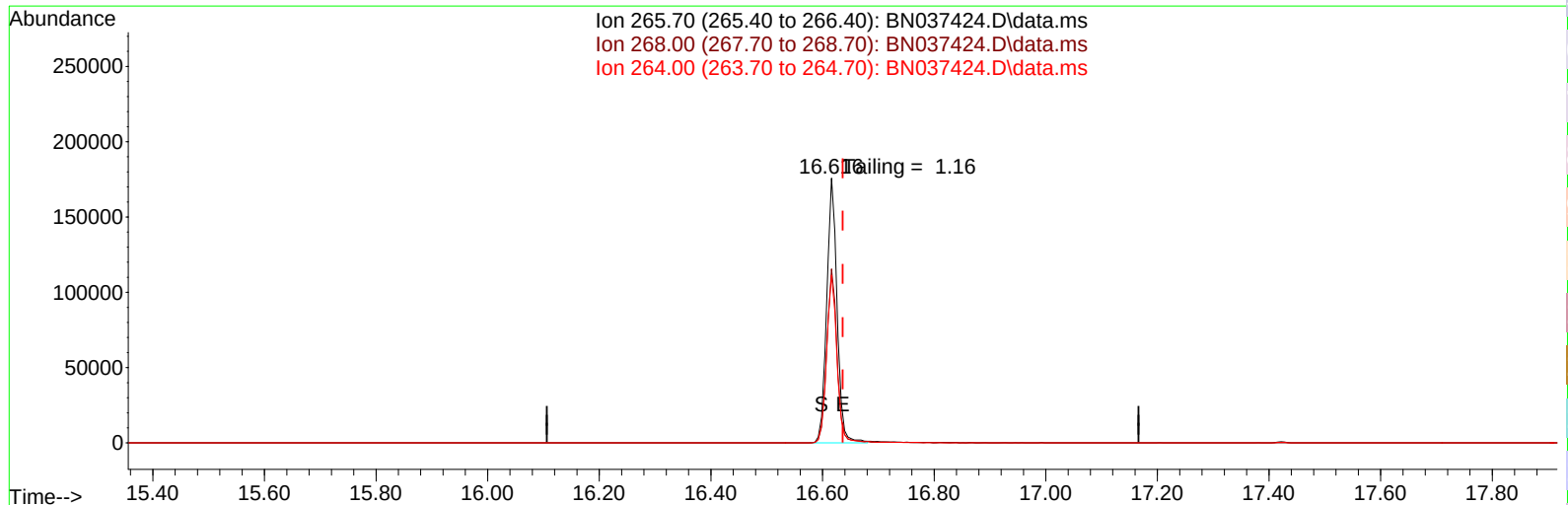
AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2463

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	59808	PASS
70	69	0.00	2	0.6	333	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	203136	PASS
199	198	5	9	6.9	13930	PASS
365	198	1	100	4.7	9529	PASS
441	443	0.01	150	79.0	23674	PASS
442	442	100	100	100.0	145789	PASS
443	442	15	24	20.6	29979	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037424.D
Acq On : 02 Jul 2025 13:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 02 16:01:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 27 04:09:23 2025
Response via : Initial Calibration



TIC: BN037424.D\data.ms

(70) Pentachlorophenol (C)

16.616min (-0.020) 20970.50 ng

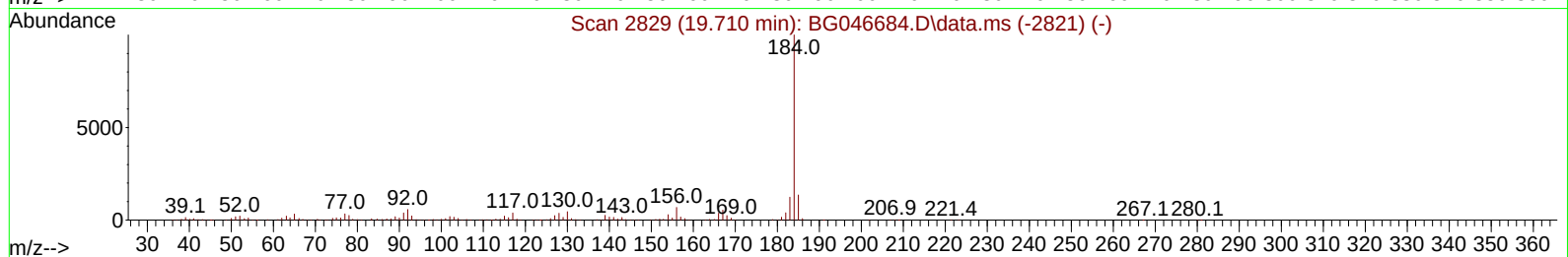
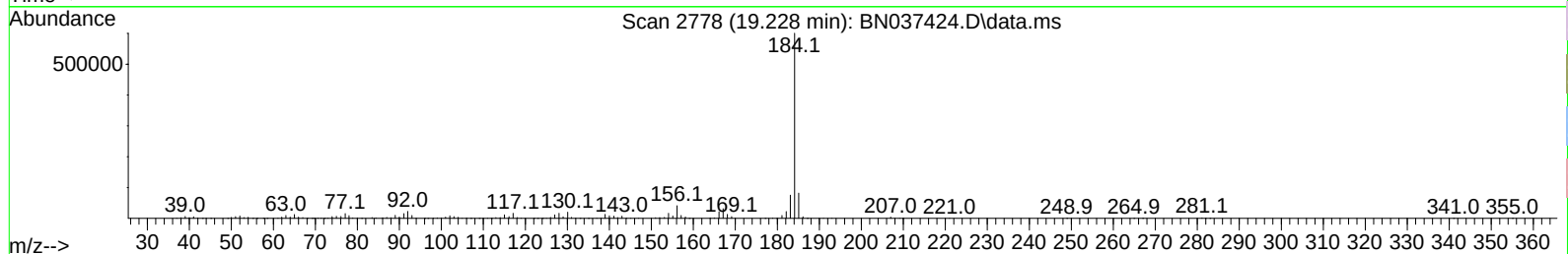
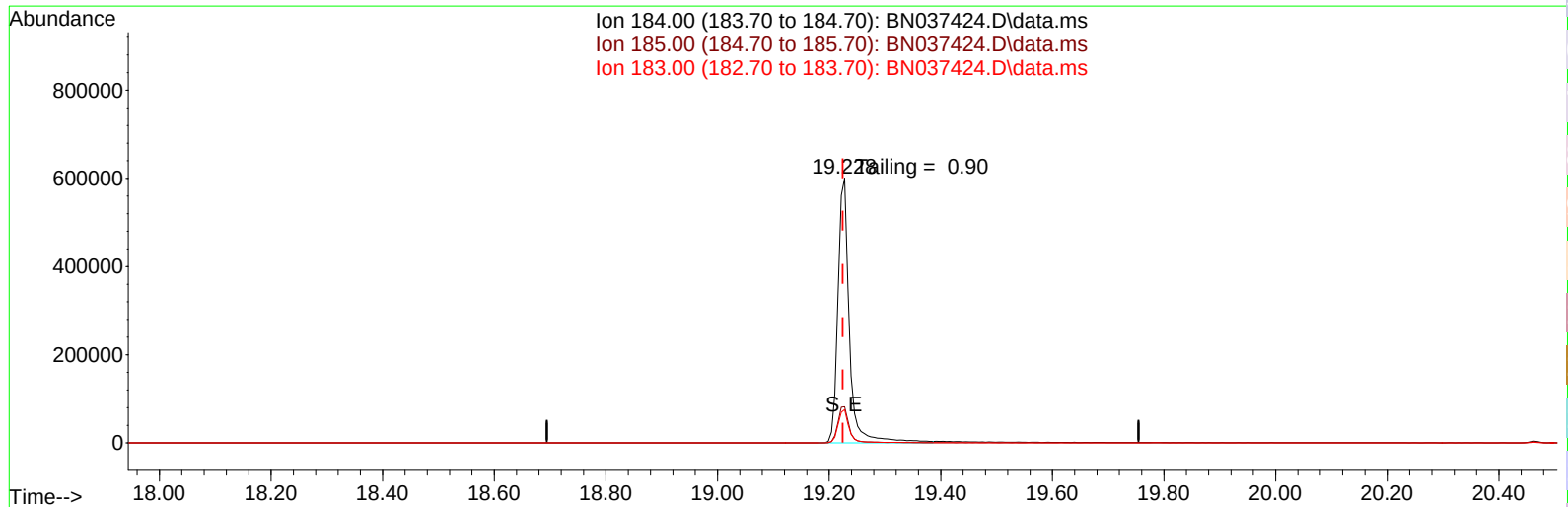
response 228754

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.73
264.00	61.60	63.38
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037424.D
Acq On : 02 Jul 2025 13:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 02 16:01:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 27 04:09:23 2025
Response via : Initial Calibration



TIC: BN037424.D\data.ms

(77) Benzidine

19.228min (+ 0.004) 0.00 ng

response 863602

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.69
183.00	13.20	12.57
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/2/2025	BNA_N	<u>BN037424.D</u>
Compound Name	Response	Retention Time
DDT	689344	20.463
DDD	16883	20.022
DDE	2741	19.516
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
19624	708968	2.77

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168695BL	SDG No.:	Q2439
Lab Sample ID:	PB168695BL	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
BN037426.D	1	07/02/25 09:05	07/02/25 15:01	PB168695

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	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	2320	7.56				
1146-65-2	Naphthalene-d8	4230	10.34				
15067-26-2	Acenaphthene-d10	2650	14.213				
1517-22-2	Phenanthrene-d10	4390	16.984				
1719-03-5	Chrysene-d12	4580	21.18				
1520-96-3	Perylene-d12	5130	23.363				

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\BN070225\
Data File : BN037426.D
Acq On : 02 Jul 2025 15:01
Operator : RC/JU
Sample : PB168695BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168695BL

Quant Time: Jul 02 15:26:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	2320	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4227	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2645	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	4386	0.400	ng	0.02
29) Chrysene-d12	21.180	240	4580	0.400	ng	# 0.02
35) Perylene-d12	23.363	264	5125	0.400	ng	# 0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1749	0.391	ng	0.00
5) Phenol-d6	6.752	99	1348	0.291	ng	0.00
8) Nitrobenzene-d5	8.728	82	1069	0.316	ng	0.01
11) 2-Methylnaphthalene-d10	11.950	152	2261	0.346	ng	0.01
14) 2,4,6-Tribromophenol	15.755	330	271	0.175	ng	0.04
15) 2-Fluorobiphenyl	12.843	172	3955	0.346	ng	0.01
27) Fluoranthene-d10	19.012	212	5037	0.401	ng	0.00
31) Terphenyl-d14	19.621	244	3702	0.379	ng	0.00

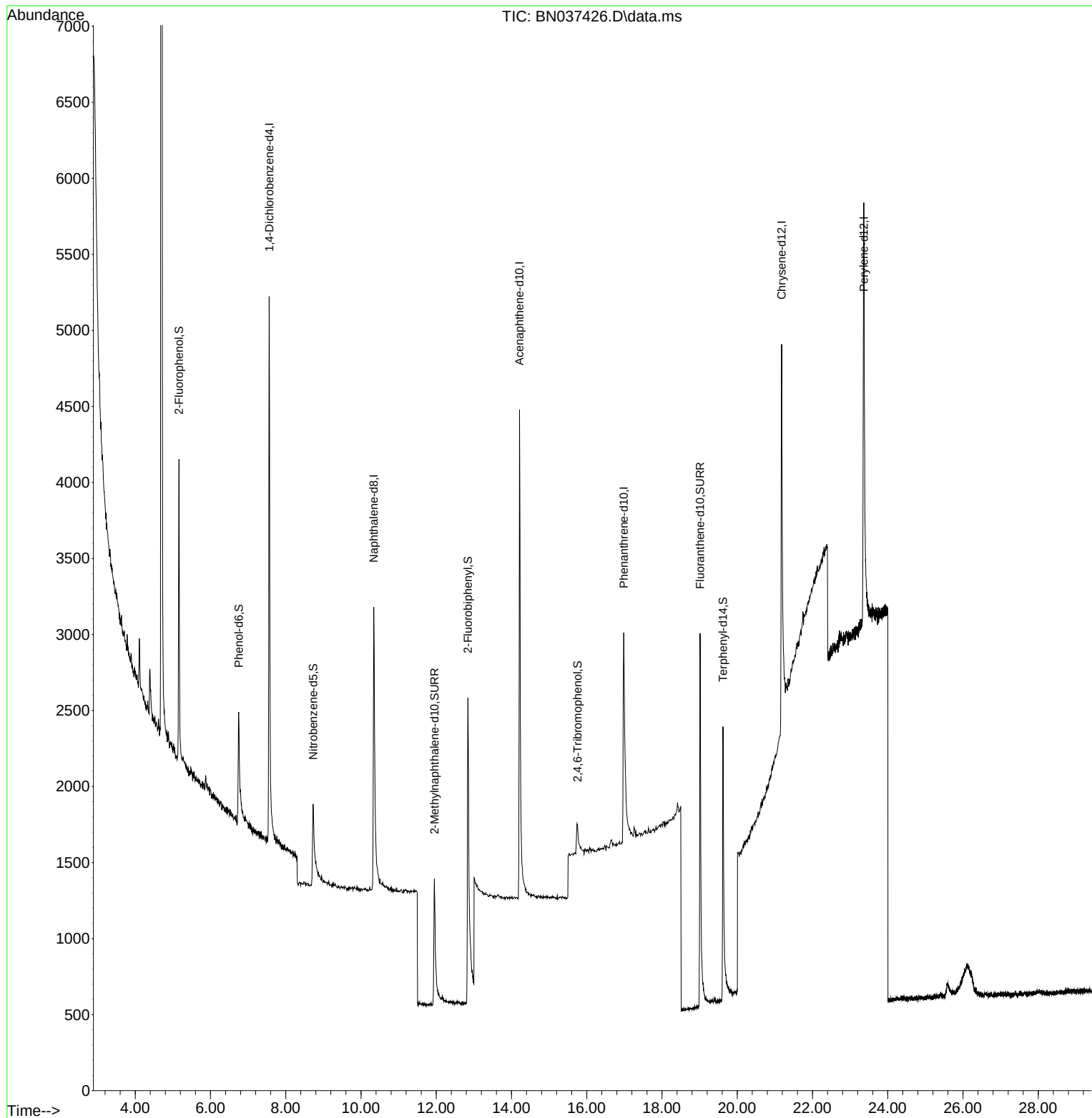
Target Compounds	Qvalue

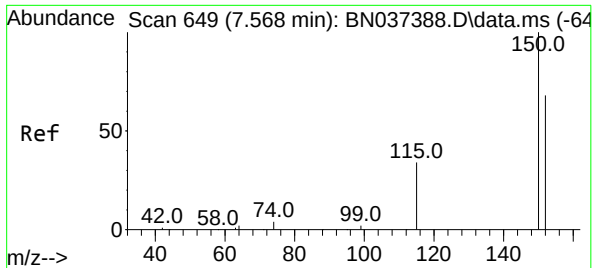
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037426.D
Acq On : 02 Jul 2025 15:01
Operator : RC/JU
Sample : PB168695BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168695BL

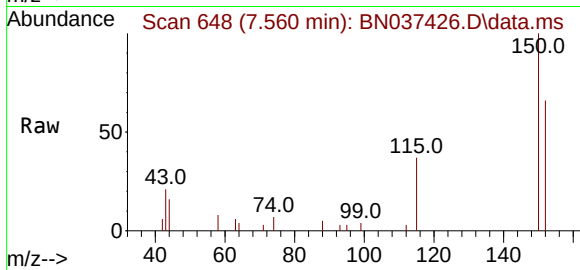
Quant Time: Jul 02 15:26:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



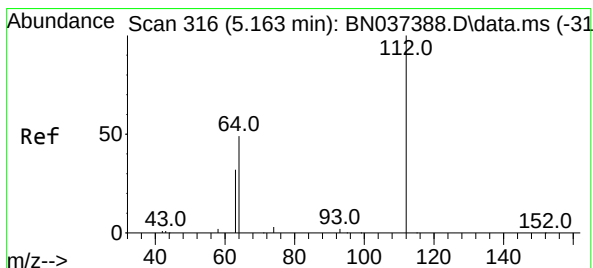
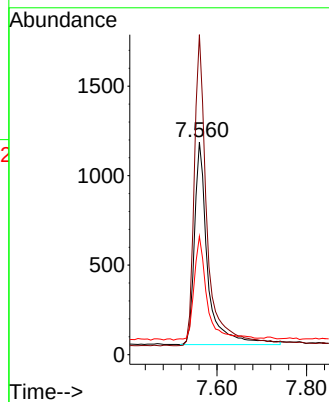
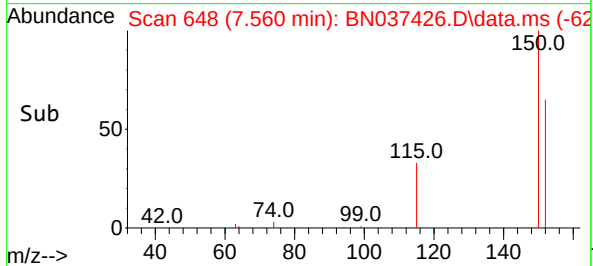


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 649
Delta R.T. -0.008 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

Instrument :
BNA_N
ClientSampleId :
PB168695BL

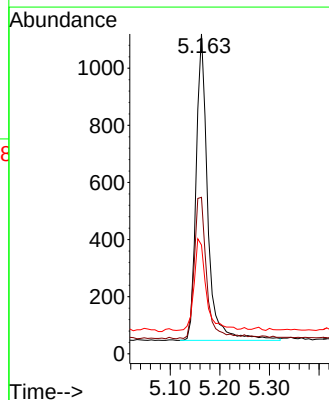
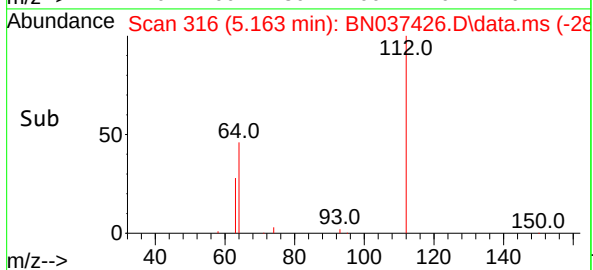
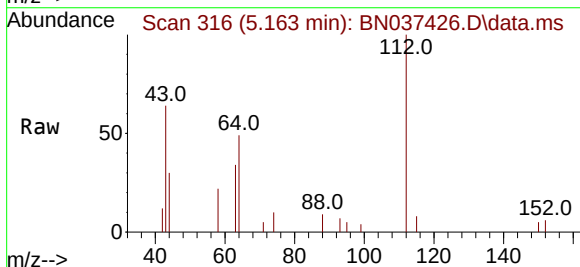


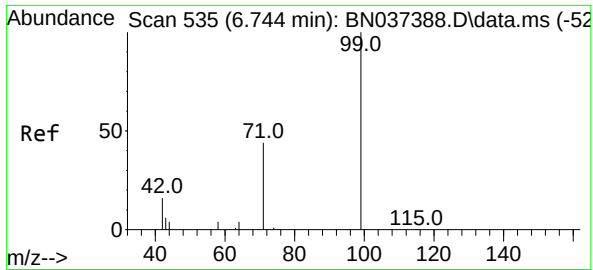
Tgt Ion:152 Resp: 2320
Ion Ratio Lower Upper
152 100
150 150.5 116.2 174.2
115 55.6 42.9 64.3



#4
2-Fluorophenol
Concen: 0.391 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

Tgt Ion:112 Resp: 1749
Ion Ratio Lower Upper
112 100
64 49.1 40.3 60.5
63 31.9 26.1 39.1

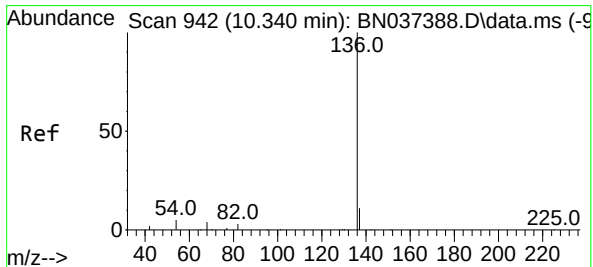
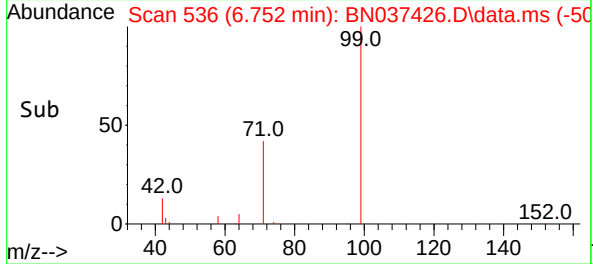
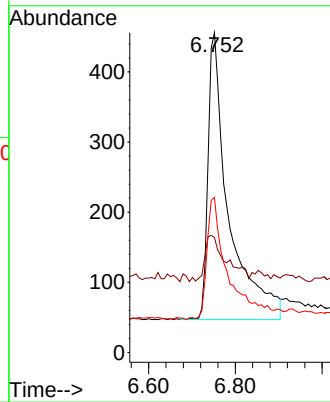
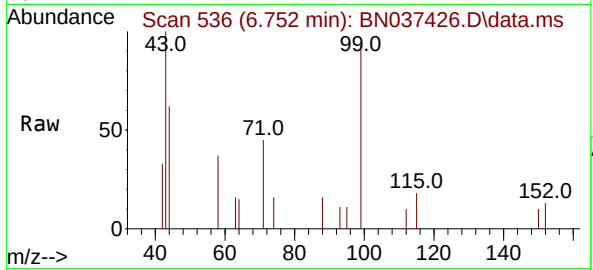




#5
Phenol-d6
Concen: 0.291 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

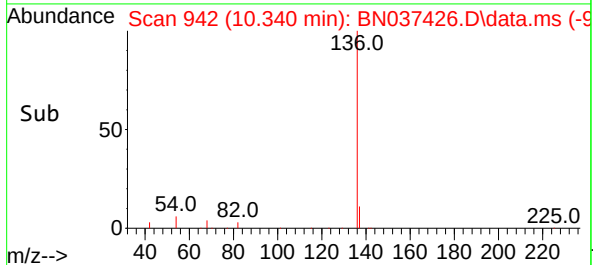
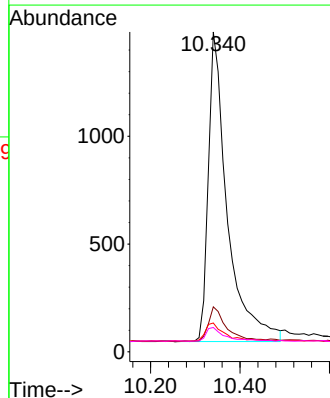
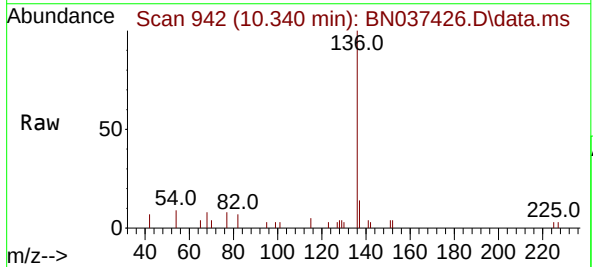
Instrument :
BNA_N
ClientSampleId :
PB168695BL

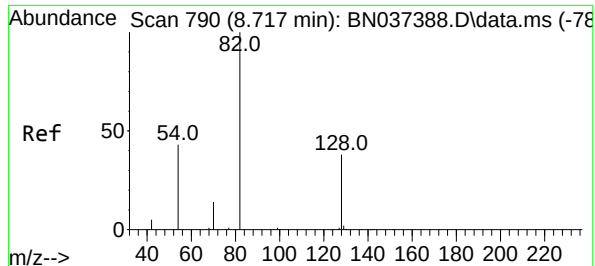
Tgt Ion:	99	Resp:	1348
Ion	Ratio	Lower	Upper
99	100		
42	16.1	15.6	23.4
71	43.4	35.8	53.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

Tgt Ion:	136	Resp:	4227
Ion	Ratio	Lower	Upper
136	100		
137	14.1	10.4	15.6
54	9.0	5.6	8.4#
68	7.6	4.6	6.8#

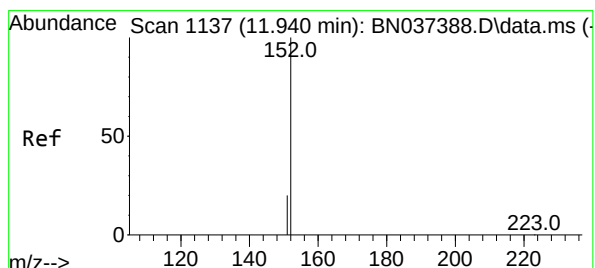
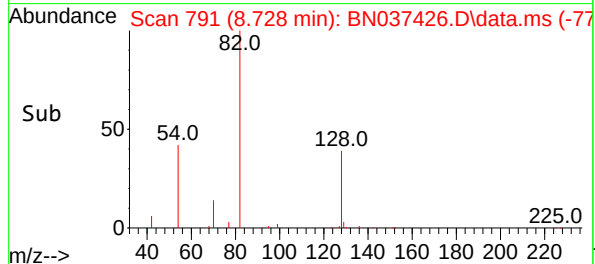
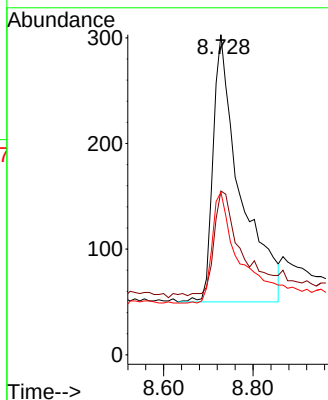
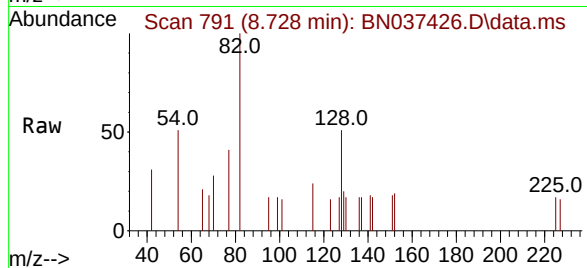




#8
Nitrobenzene-d5
Concen: 0.316 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

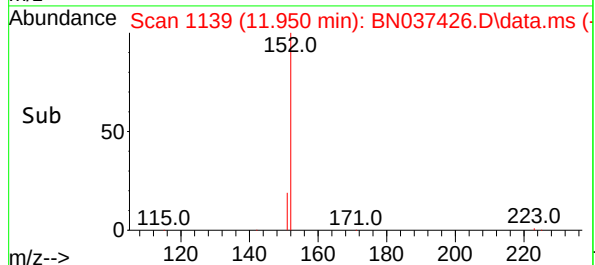
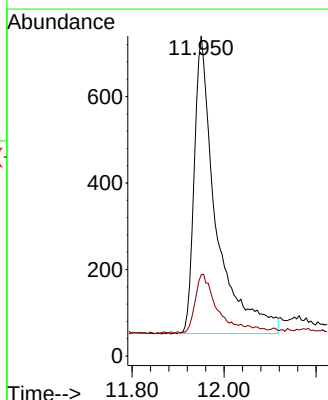
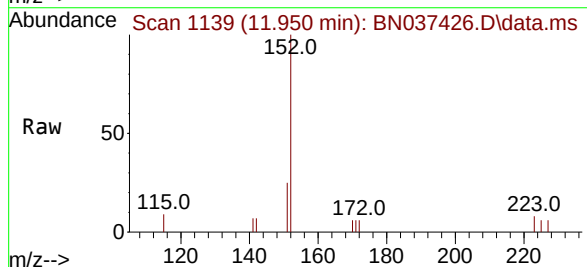
Instrument :
BNA_N
ClientSampleId :
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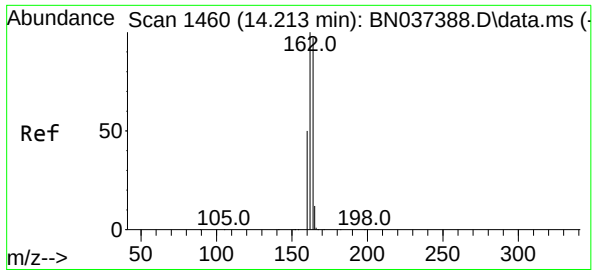
Tgt Ion: 82 Resp: 1069
Ion Ratio Lower Upper
82 100
128 51.2 34.0 51.0#
54 50.8 37.7 56.5



#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.950 min Scan# 1139
Delta R.T. 0.010 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

Tgt Ion: 152 Resp: 2261
Ion Ratio Lower Upper
152 100
151 19.5 18.4 27.6

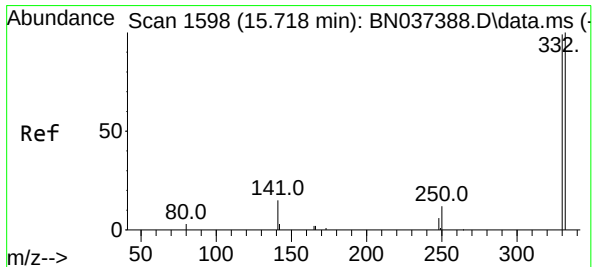
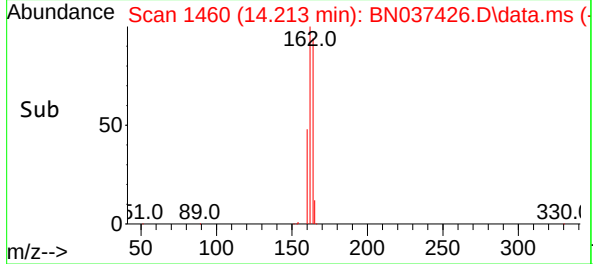
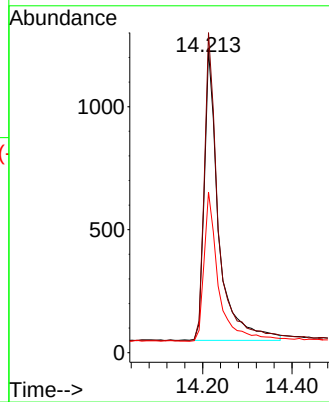
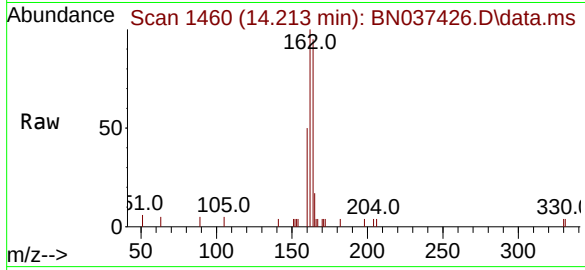




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

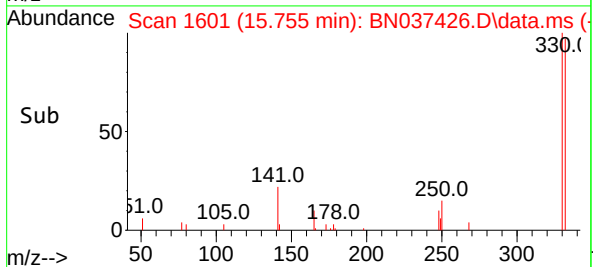
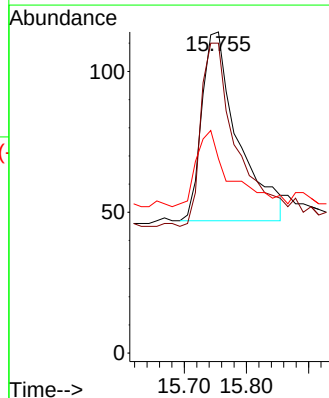
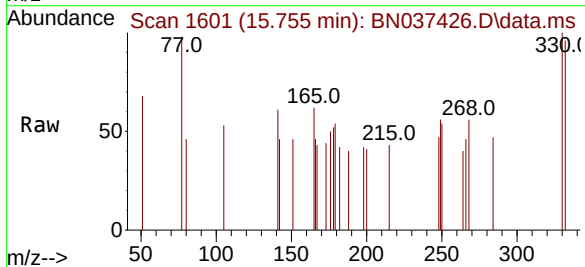
Instrument :
BNA_N
ClientSampleId :
PB168695BL

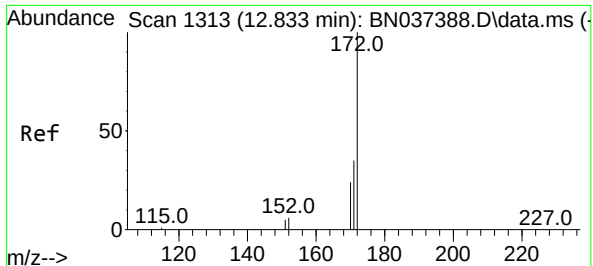
Tgt Ion:	164	Resp:	2645
Ion	Ratio	Lower	Upper
164	100		
162	105.8	82.6	123.8
160	53.1	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.175 ng
RT: 15.755 min Scan# 1601
Delta R.T. 0.037 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

Tgt Ion:	330	Resp:	271
Ion	Ratio	Lower	Upper
330	100		
332	100.4	77.8	116.8
141	40.2	24.0	36.0





#15

2-Fluorobiphenyl

Concen: 0.346 ng

RT: 12.843 min Scan# 11

Delta R.T. 0.010 min

Lab File: BN037426.D

Acq: 02 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

PB168695BL

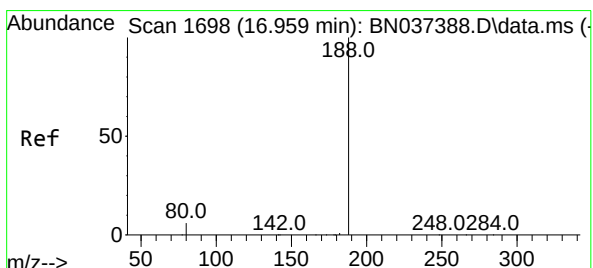
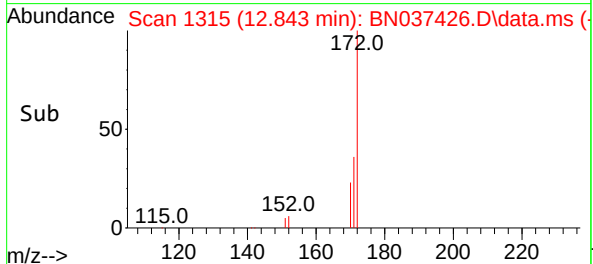
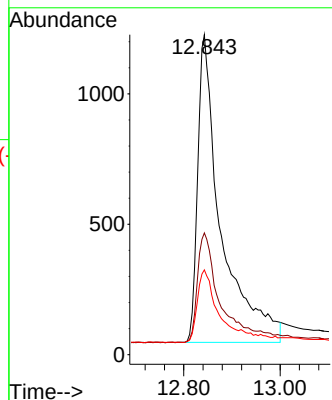
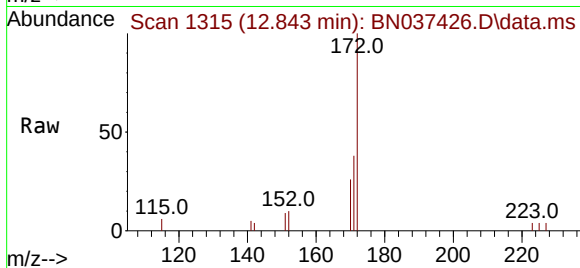
Tgt Ion:172 Resp: 3955

Ion Ratio Lower Upper

172 100

171 38.1 28.8 43.2

170 26.5 20.3 30.5



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1700

Delta R.T. 0.025 min

Lab File: BN037426.D

Acq: 02 Jul 2025 15:01

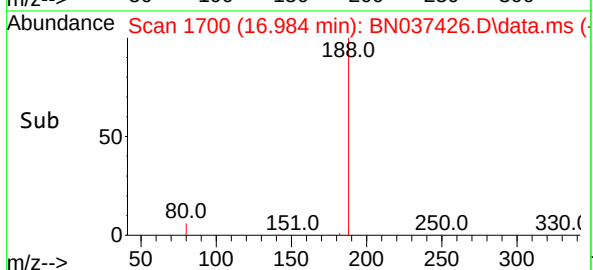
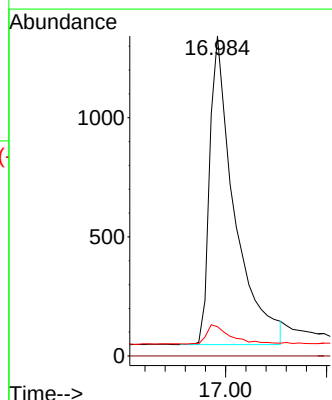
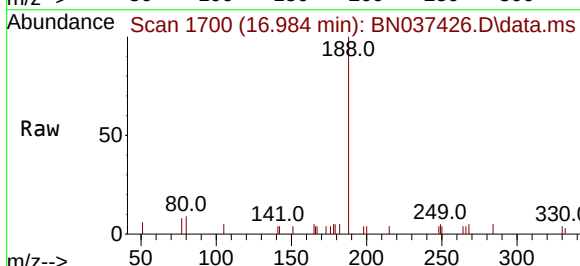
Tgt Ion:188 Resp: 4386

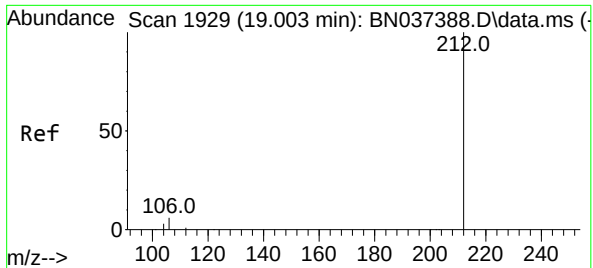
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 6.2 9.4

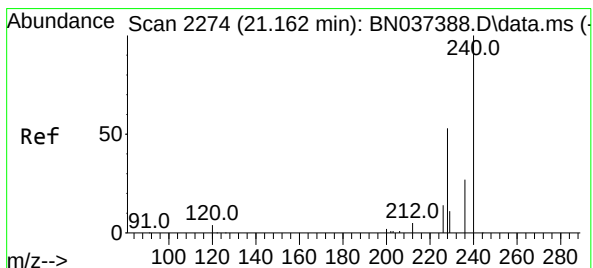
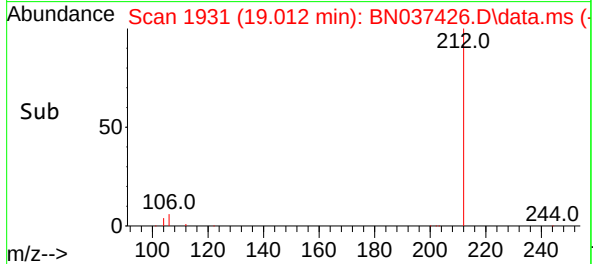
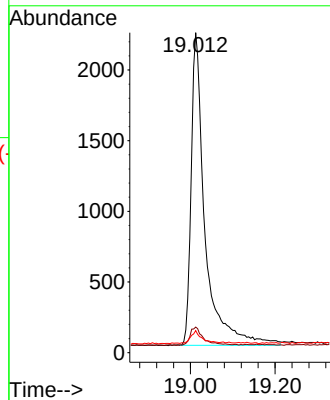
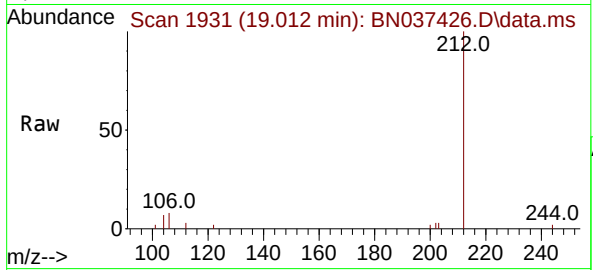




#27
Fluoranthene-d10
Concen: 0.401 ng
RT: 19.012 min Scan# 1931
Delta R.T. 0.009 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

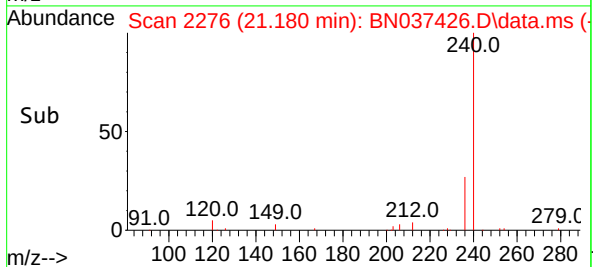
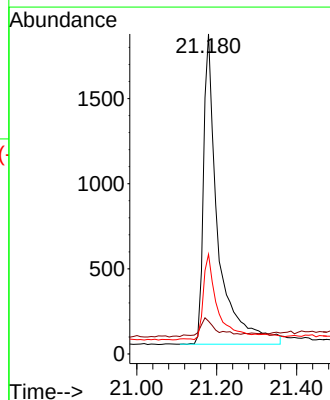
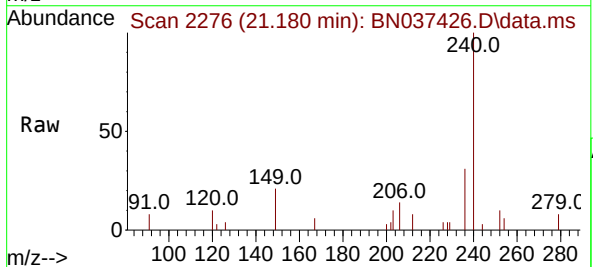
Instrument :
BNA_N
ClientSampleId :
PB168695BL

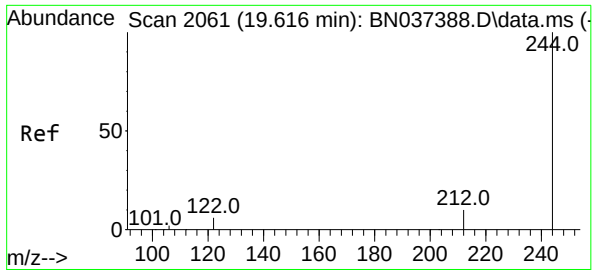
Tgt Ion	Ratio	Lower	Upper
212	100		
106	5.6	4.5	6.7
104	3.1	2.7	4.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.018 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.3	5.3	7.9
236	31.2	22.7	34.1

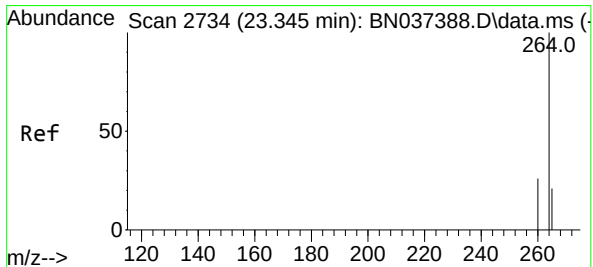
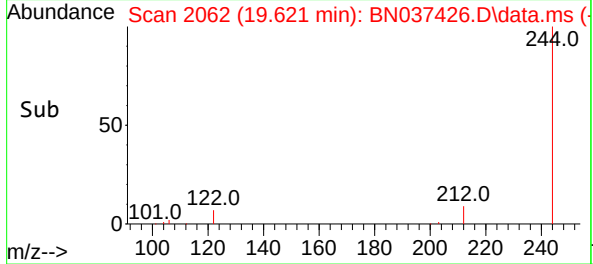
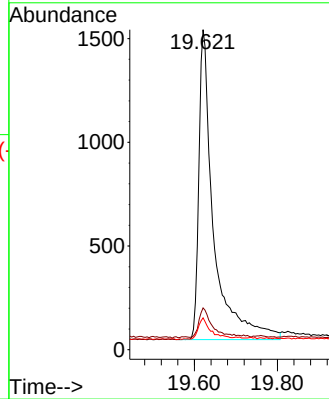
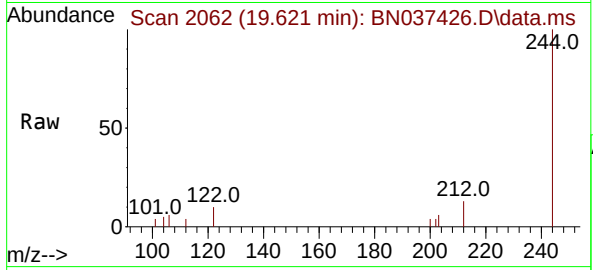




#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.621 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

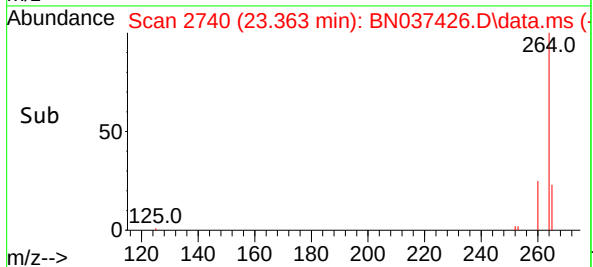
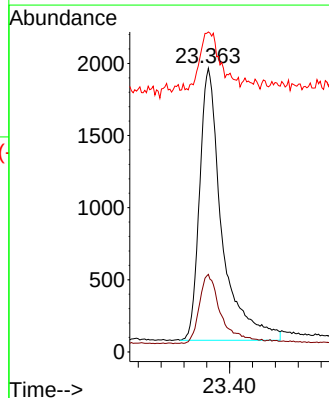
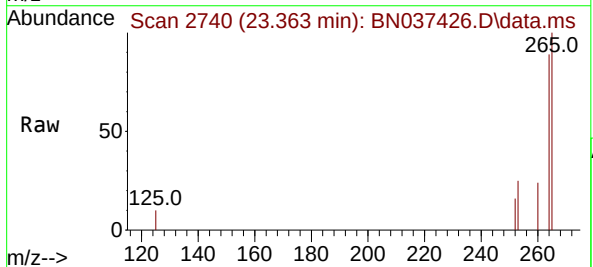
Instrument :
BNA_N
ClientSampleId :
PB168695BL

Tgt Ion:244 Resp: 3702
Ion Ratio Lower Upper
244 100
212 13.1 9.1 13.7
122 10.0 6.3 9.5#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. 0.018 min
Lab File: BN037426.D
Acq: 02 Jul 2025 15:01

Tgt Ion:264 Resp: 5125
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.0
265 112.8 56.2 84.4#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168695BS	SDG No.:	Q2439
Lab Sample ID:	PB168695BS	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
BN037429.D	1	07/02/25 09:05	07/02/25 16:50	PB168695

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.47		30 - 150		117%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	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	2120	7.561				
1146-65-2	Naphthalene-d8	4360	10.34				
15067-26-2	Acenaphthene-d10	2710	14.213				
1517-22-2	Phenanthrene-d10	4950	16.971				
1719-03-5	Chrysene-d12	4560	21.171				
1520-96-3	Perylene-d12	5050	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\BN070225\
 Data File : BN037429.D
 Acq On : 02 Jul 2025 16:50
 Operator : RC/JU
 Sample : PB168695BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168695BS

Quant Time: Jul 02 17:12:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

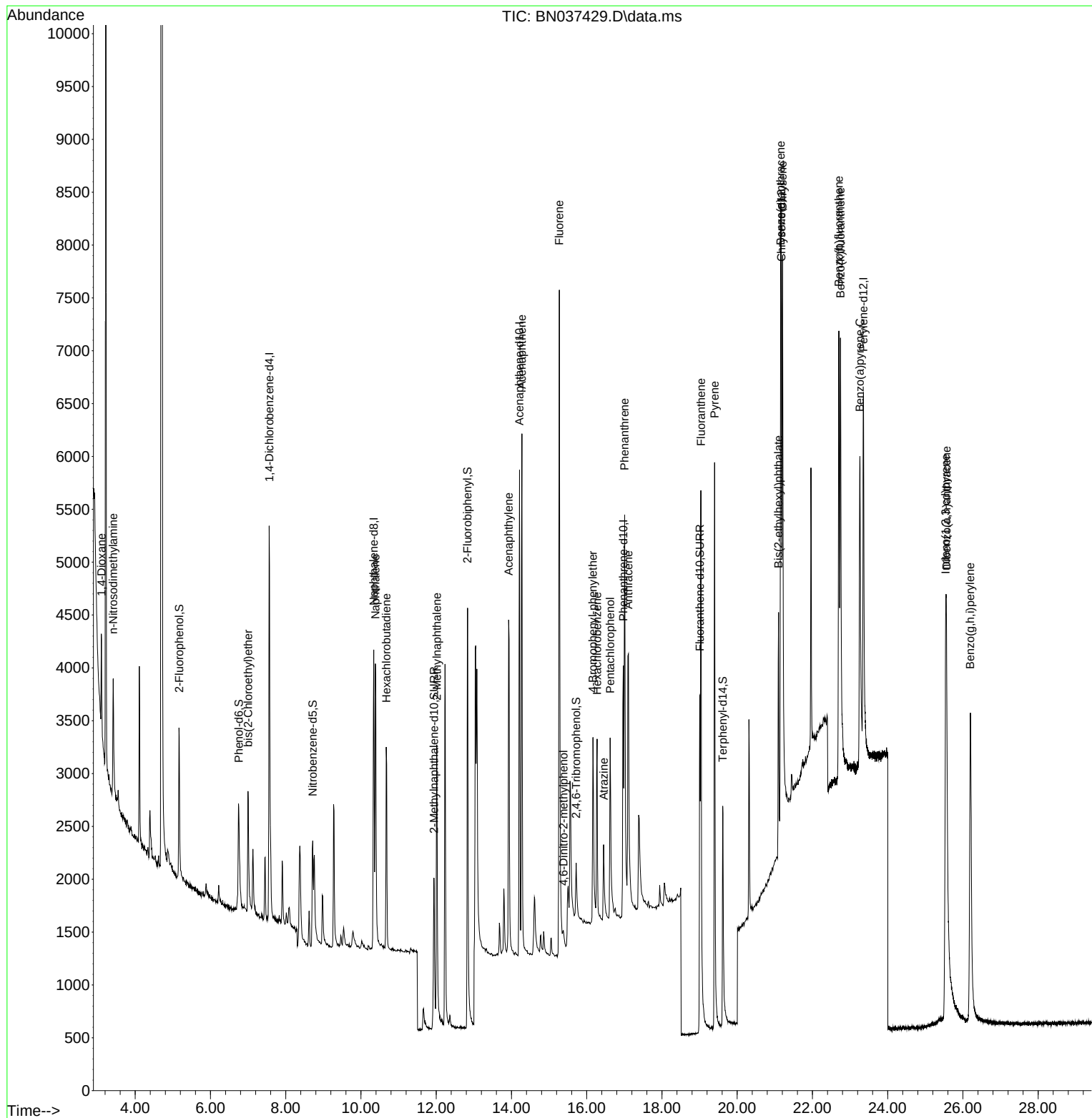
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	2121	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4355	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2709	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4952	0.400	ng	0.01
29) Chrysene-d12	21.171	240	4556	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	5045	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1449	0.354	ng	0.00
5) Phenol-d6	6.752	99	1403	0.331	ng	0.00
8) Nitrobenzene-d5	8.717	82	1259	0.361	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	3144	0.467	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	502	0.316	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	4562	0.390	ng	0.00
27) Fluoranthene-d10	19.008	212	5049	0.356	ng	0.00
31) Terphenyl-d14	19.616	244	3695	0.380	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	643	0.320	ng	# 66
3) n-Nitrosodimethylamine	3.415	42	763	0.384	ng	# 96
6) bis(2-Chloroethyl)ether	6.997	93	1226	0.325	ng	92
9) Naphthalene	10.383	128	4031	0.360	ng	99
10) Hexachlorobutadiene	10.671	225	1758	0.395	ng	# 99
12) 2-Methylnaphthalene	12.016	142	2428	0.315	ng	99
16) Acenaphthylene	13.925	152	4245	0.378	ng	99
17) Acenaphthene	14.277	154	2601	0.355	ng	97
18) Fluorene	15.272	166	3372	0.325	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	310	0.244	ng	# 69
21) 4-Bromophenyl-phenylether	16.165	248	1301	0.372	ng	# 94
22) Hexachlorobenzene	16.276	284	1452	0.387	ng	96
23) Atrazine	16.450	200	988	0.357	ng	# 97
24) Pentachlorophenol	16.624	266	1250	0.616	ng	95
25) Phenanthrene	17.009	178	4834	0.346	ng	100
26) Anthracene	17.108	178	4561	0.356	ng	100
28) Fluoranthene	19.036	202	5956	0.334	ng	99
30) Pyrene	19.398	202	6095	0.354	ng	99
32) Benzo(a)anthracene	21.153	228	4837	0.338	ng	97
33) Chrysene	21.207	228	6743	0.380	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2091	0.369	ng	99
36) Indeno(1,2,3-cd)pyrene	25.541	276	7794	0.366	ng	97
37) Benzo(b)fluoranthene	22.702	252	5684	0.320	ng	92
38) Benzo(k)fluoranthene	22.743	252	6830	0.359	ng	# 91
39) Benzo(a)pyrene	23.260	252	5974	0.378	ng	# 90
40) Dibenzo(a,h)anthracene	25.561	278	5481	0.335	ng	# 84
41) Benzo(g,h,i)perylene	26.196	276	7217	0.370	ng	99

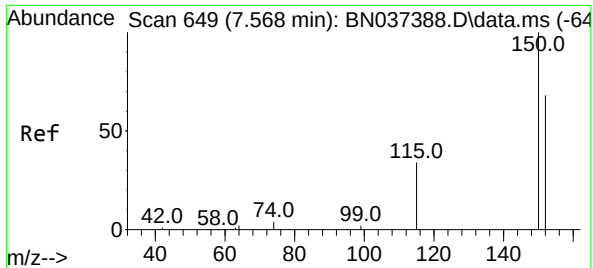
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Data File : BN037429.D
 Acq On : 02 Jul 2025 16:50
 Operator : RC/JU
 Sample : PB168695BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168695BS

Quant Time: Jul 02 17:12:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

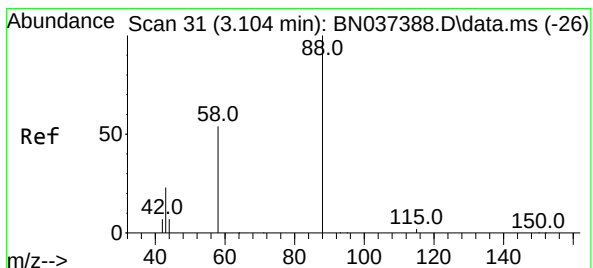
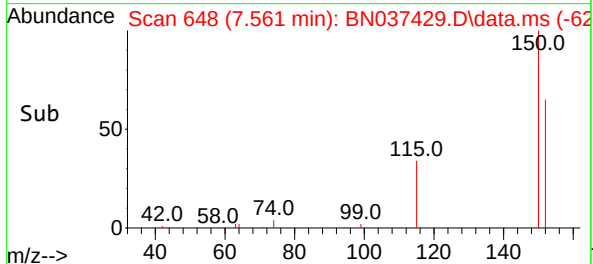
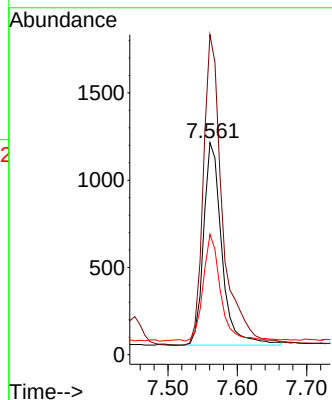
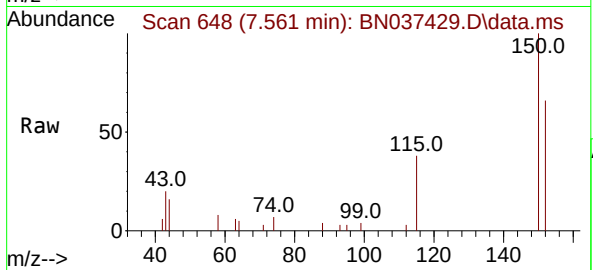




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

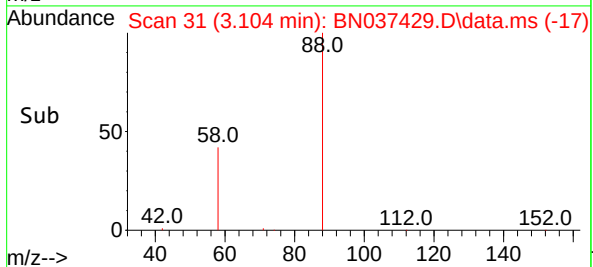
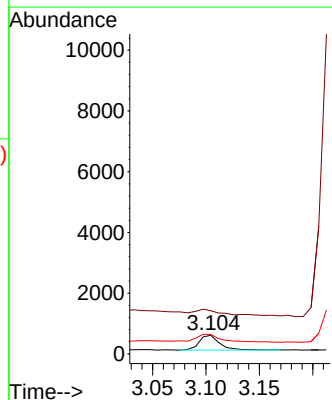
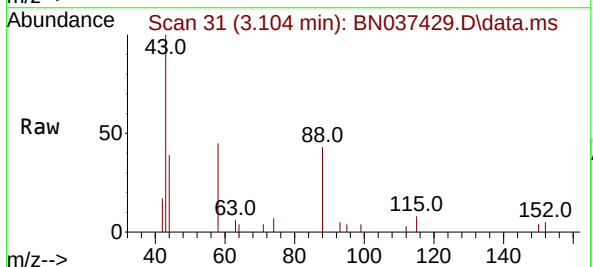
Instrument :
BNA_N
ClientSampleId :
PB168695BS

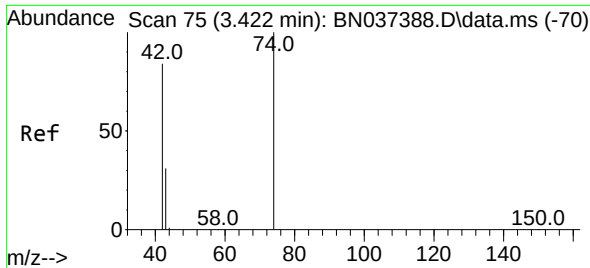
Tgt Ion:152 Resp: 2121
Ion Ratio Lower Upper
152 100
150 150.9 116.2 174.2
115 56.8 42.9 64.3



#2
1,4-Dioxane
Concen: 0.320 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion: 88 Resp: 643
Ion Ratio Lower Upper
88 100
43 60.5 21.6 32.4#
58 71.4 45.9 68.9#

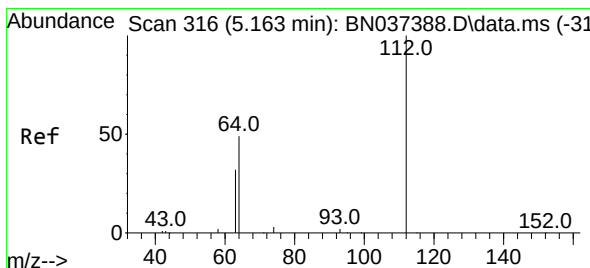
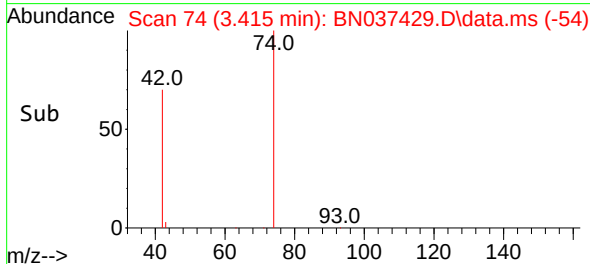
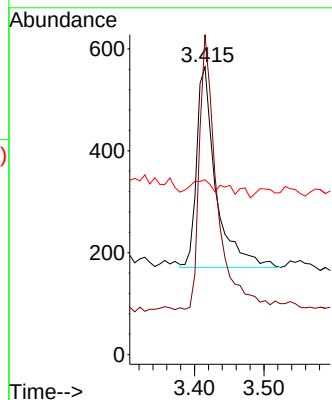
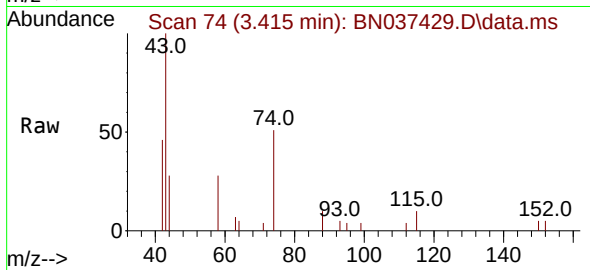




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

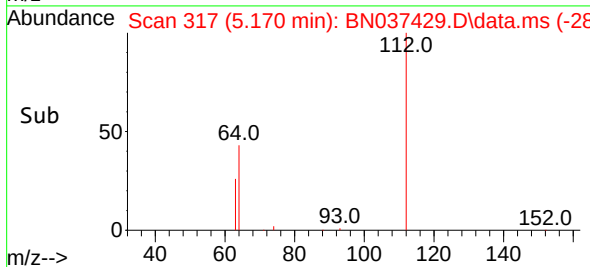
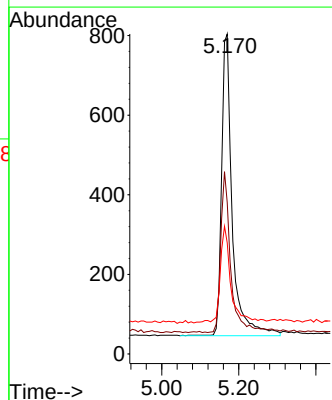
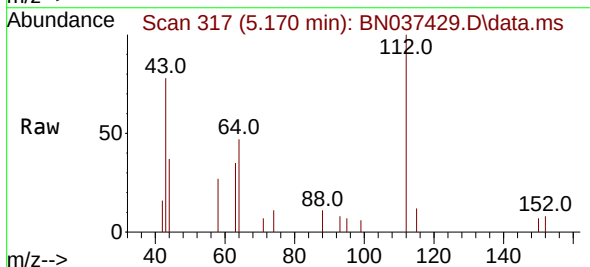
Instrument :
BNA_N
ClientSampleId :
PB168695BS

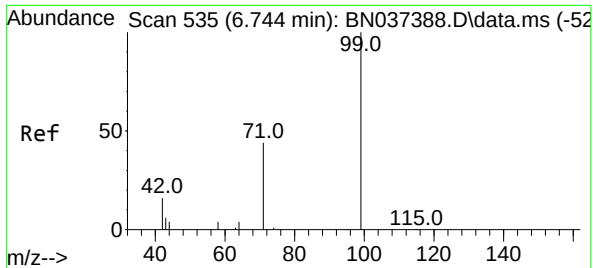
Tgt Ion: 42 Resp: 763
Ion Ratio Lower Upper
42 100
74 126.2 97.8 146.8
44 5.5 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion: 112 Resp: 1449
Ion Ratio Lower Upper
112 100
64 50.7 40.3 60.5
63 32.4 26.1 39.1

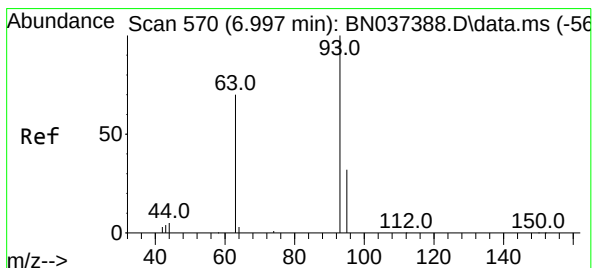
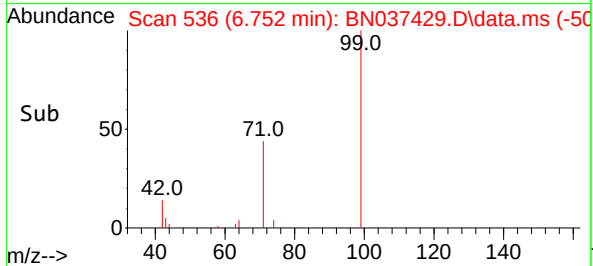
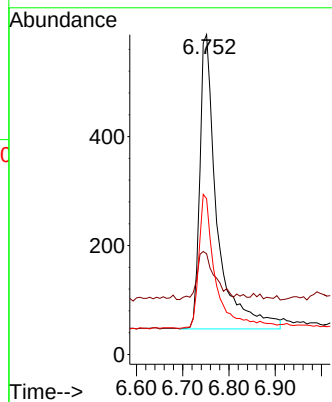
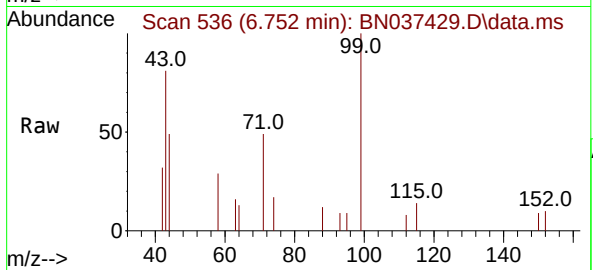




#5
Phenol-d6
Concen: 0.331 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

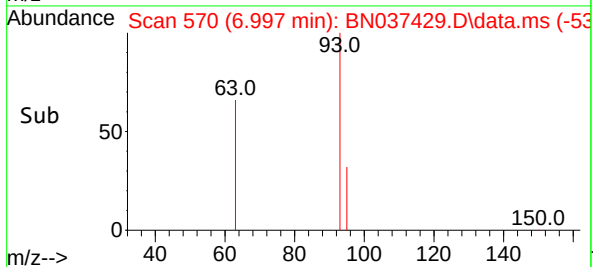
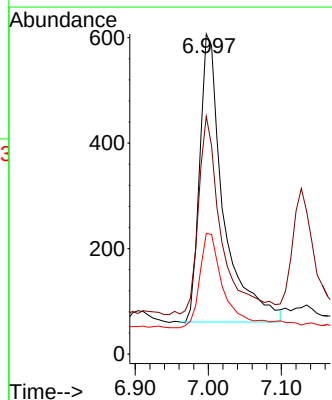
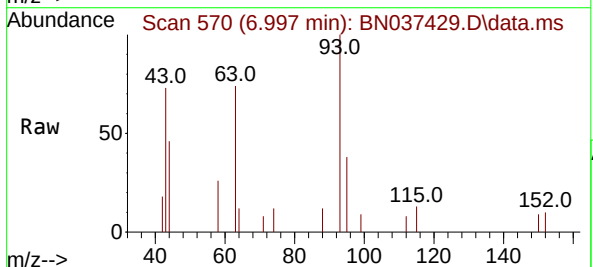
Instrument :
BNA_N
ClientSampleId :
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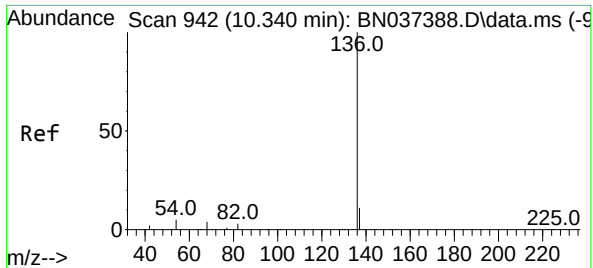
Tgt Ion:	99	Resp:	1403
Ion	Ratio	Lower	Upper
99	100		
42	16.7	15.6	23.4
71	44.3	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.325 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:	93	Resp:	1226
Ion	Ratio	Lower	Upper
93	100		
63	67.0	49.6	74.4
95	35.4	23.9	35.9

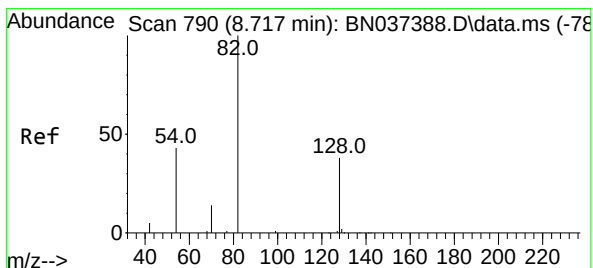
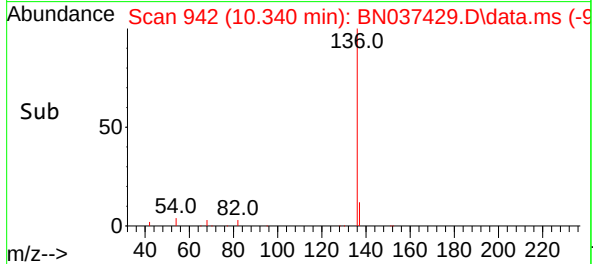
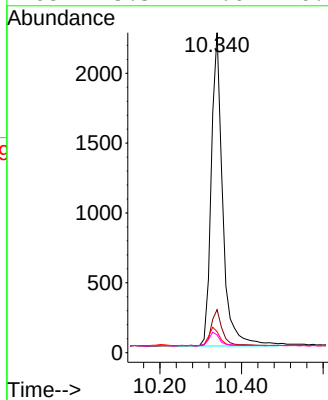
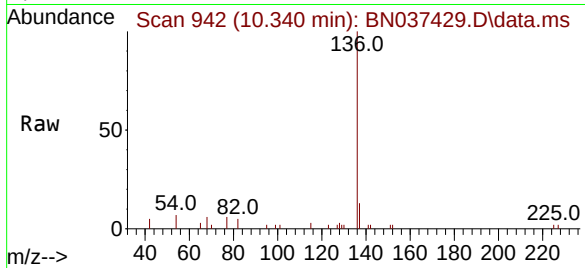




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

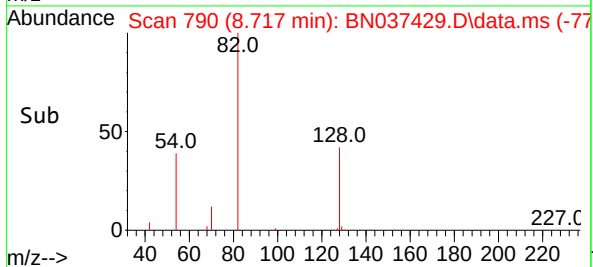
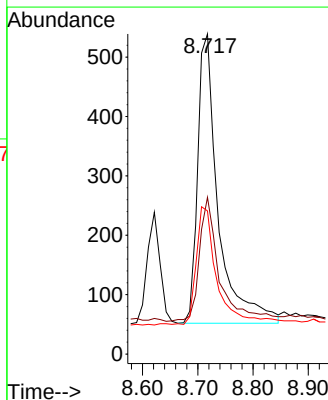
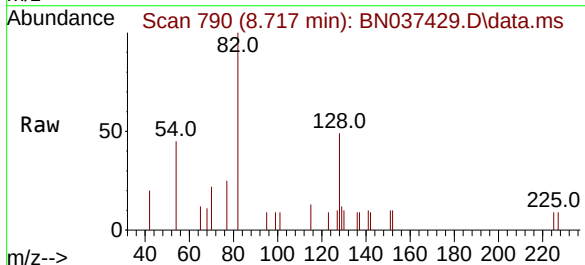
Instrument :
BNA_N
ClientSampleId :
PB168695BS

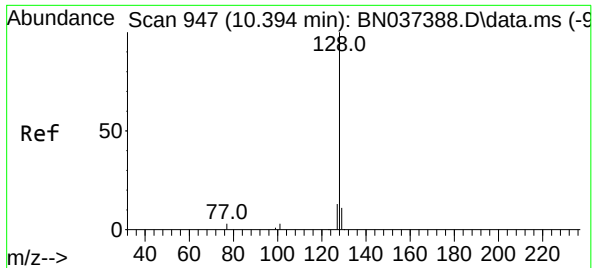
Tgt Ion:	136	Resp:	4355
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.4	15.6
54	6.5	5.6	8.4
68	5.5	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.361 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:	82	Resp:	1259
Ion	Ratio	Lower	Upper
82	100		
128	49.0	34.0	51.0
54	44.7	37.7	56.5

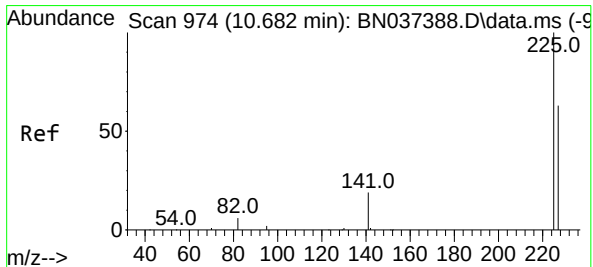
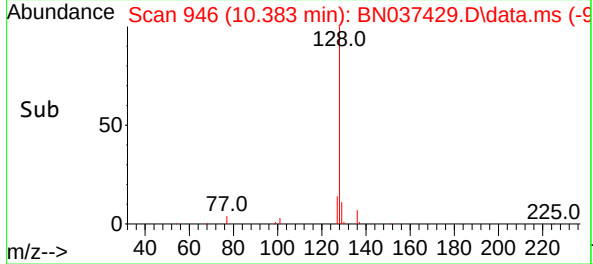
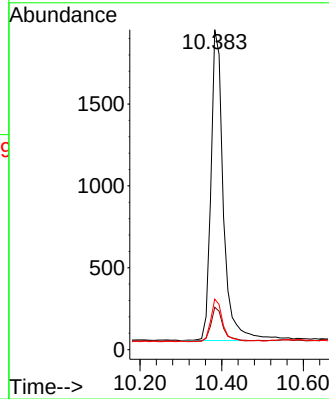
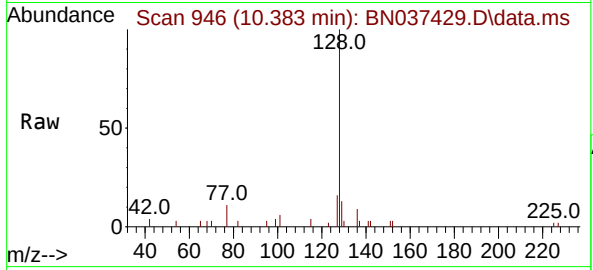




#9
Naphthalene
Concen: 0.360 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

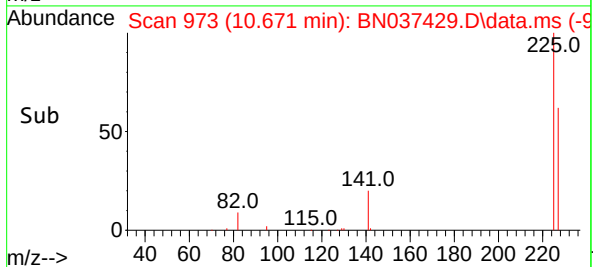
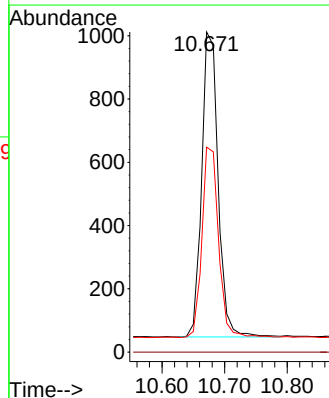
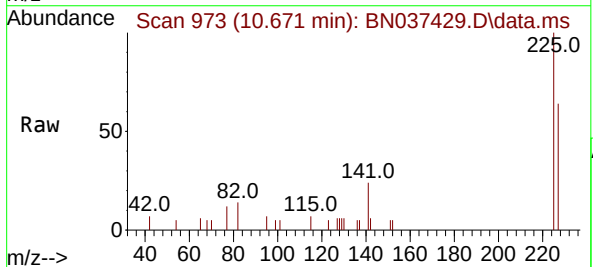
Instrument :
BNA_N
ClientSampleId :
PB168695BS

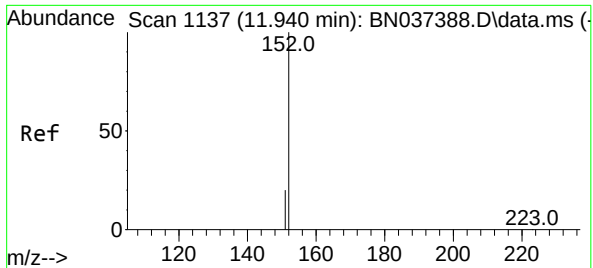
Tgt Ion:	128	Resp:	4031
Ion	Ratio	Lower	Upper
128	100		
129	13.3	10.4	15.6
127	15.8	12.2	18.4



#10
Hexachlorobutadiene
Concen: 0.395 ng
RT: 10.671 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:	225	Resp:	1758
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	49.9	74.9

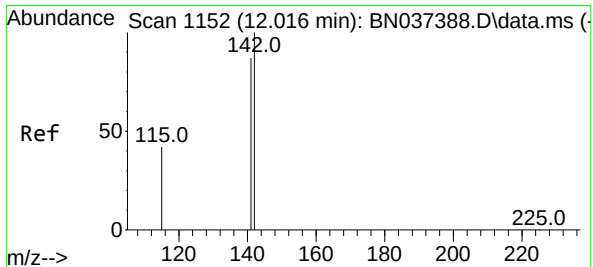
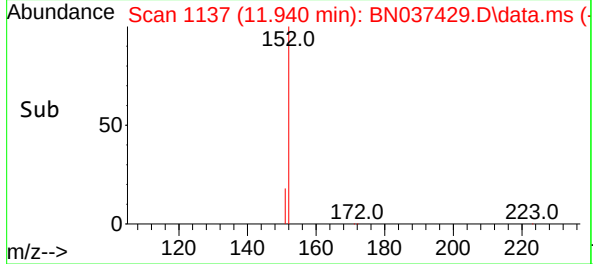
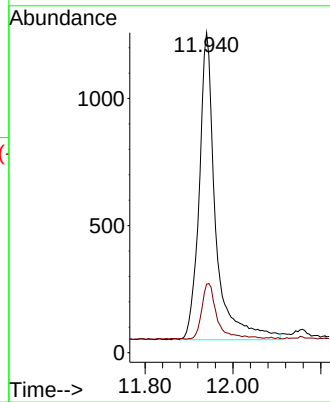
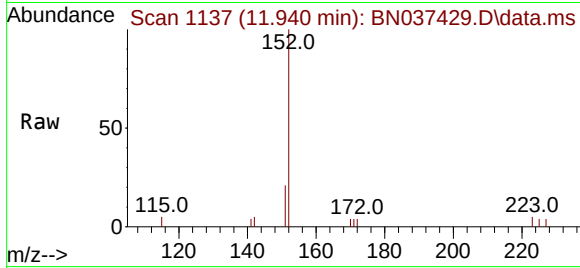




#11
2-Methylnaphthalene-d10
Concen: 0.467 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

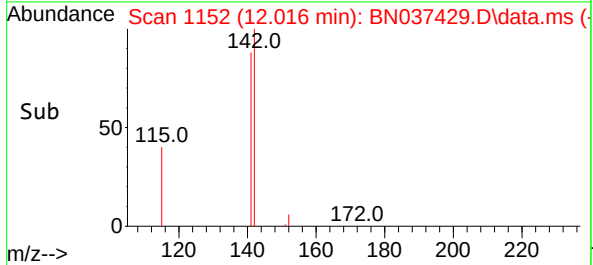
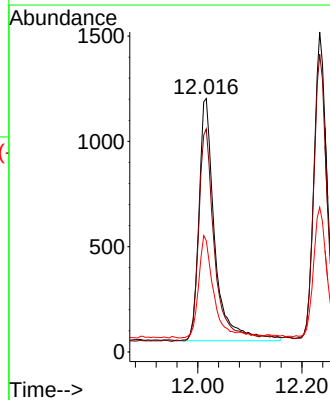
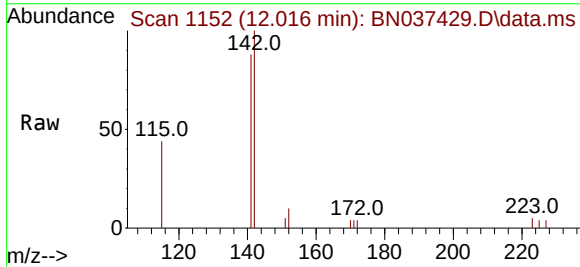
Instrument :
BNA_N
ClientSampleId :
PB168695BS

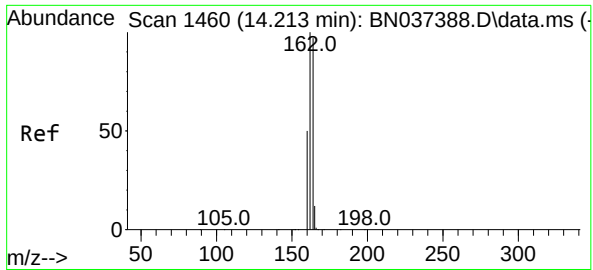
Tgt Ion:152 Resp: 3144
Ion Ratio Lower Upper
152 100
151 17.0 18.4 27.6#



#12
2-Methylnaphthalene
Concen: 0.315 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:142 Resp: 2428
Ion Ratio Lower Upper
142 100
141 88.0 70.1 105.1
115 43.9 35.8 53.6

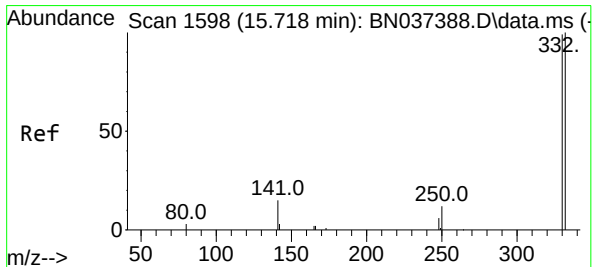
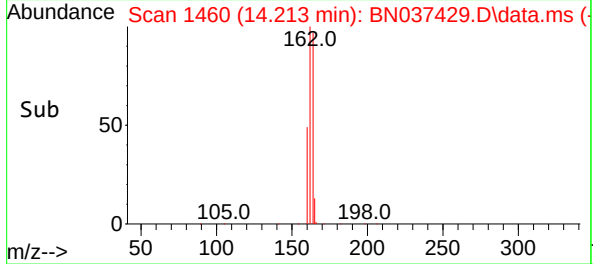
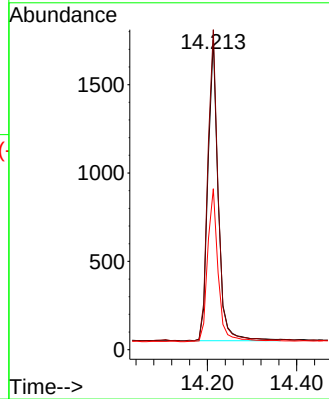
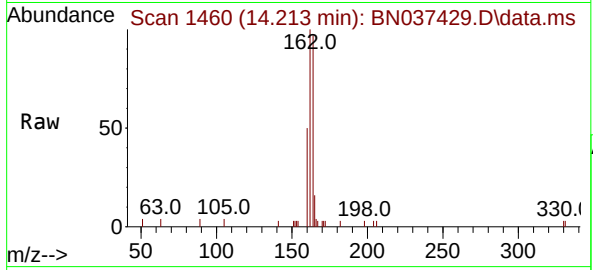




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

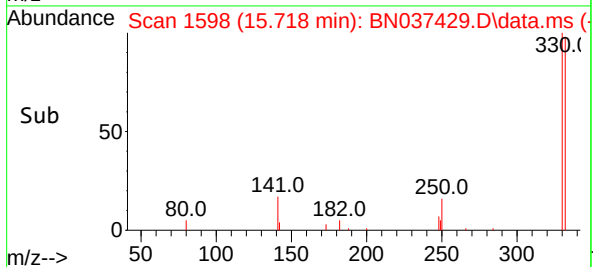
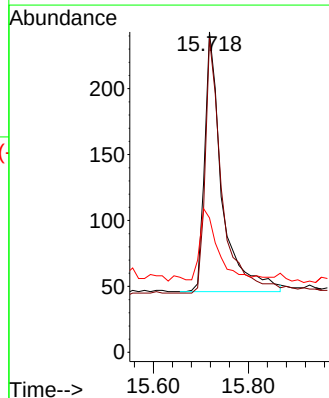
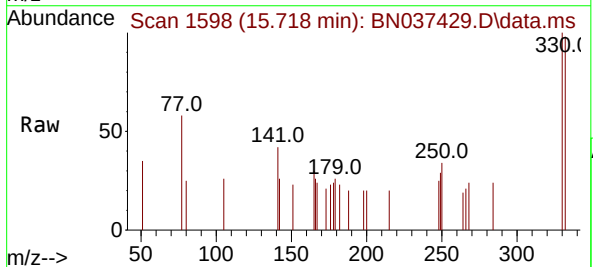
Instrument :
BNA_N
ClientSampleId :
PB168695BS

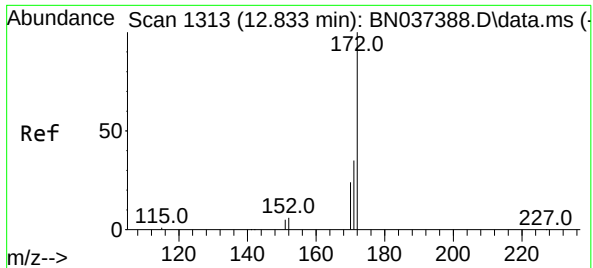
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.6	123.8
160	51.9	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.316 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.0	77.8	116.8
141	28.3	24.0	36.0

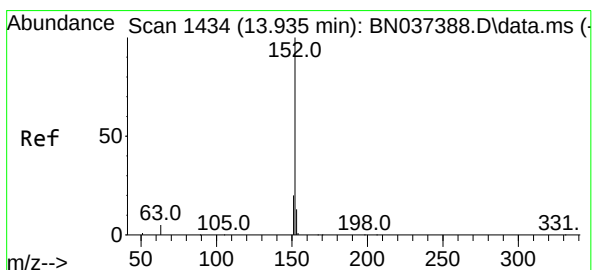
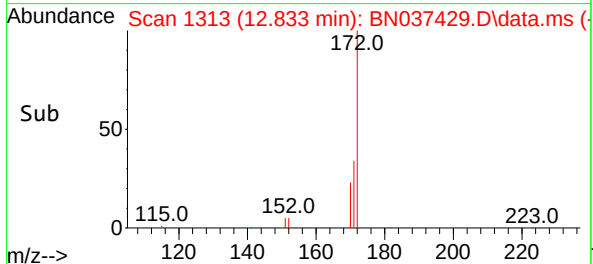
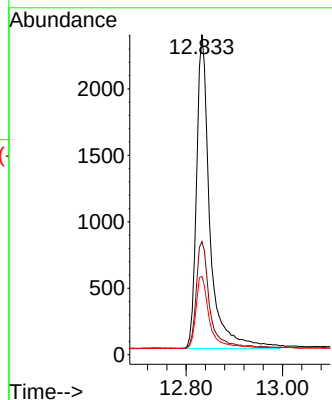
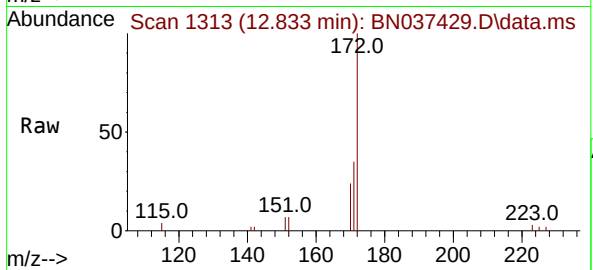




#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 12.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

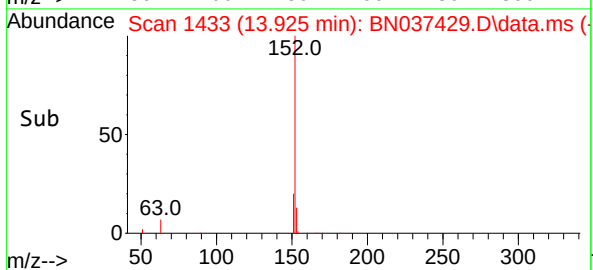
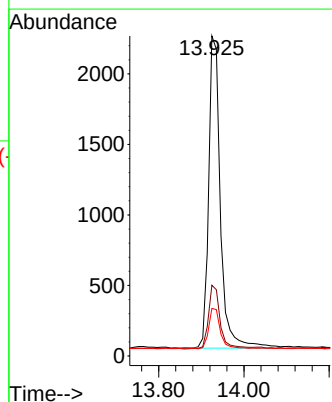
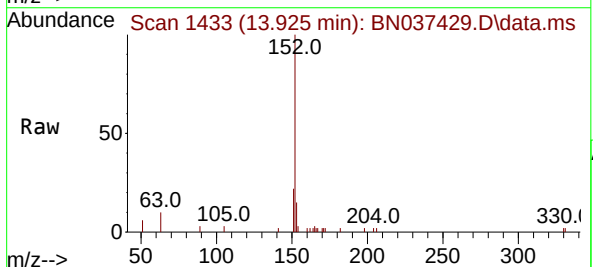
Instrument :
BNA_N
ClientSampleId :
PB168695BS

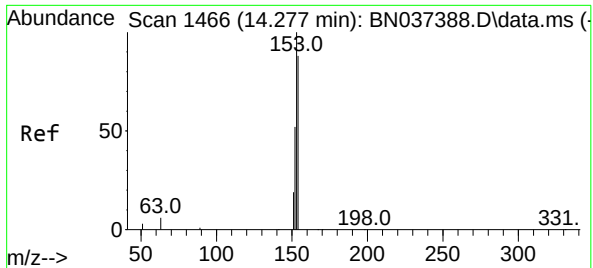
Tgt Ion:	172	Resp:	4562
Ion Ratio	Lower	Upper	
172	100		
171	35.4	28.8	43.2
170	24.5	20.3	30.5



#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:	152	Resp:	4245
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.8	23.6
153	13.4	10.3	15.5

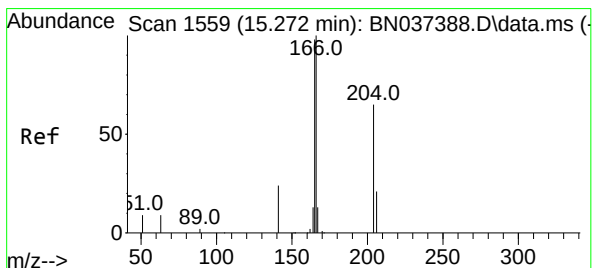
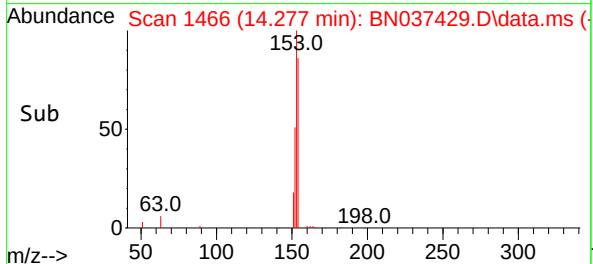
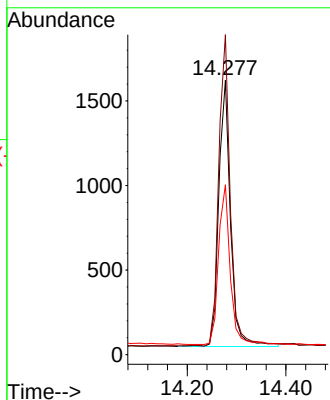
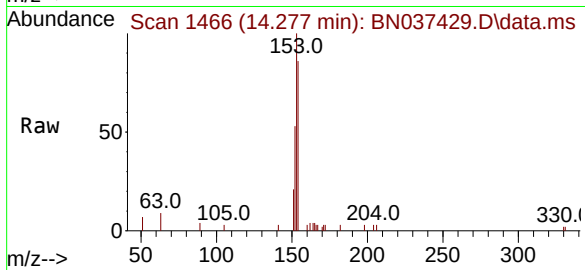




#17
Acenaphthene
Concen: 0.355 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

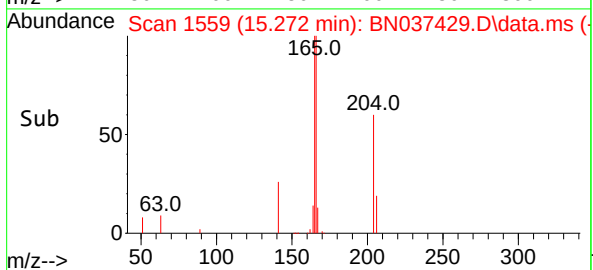
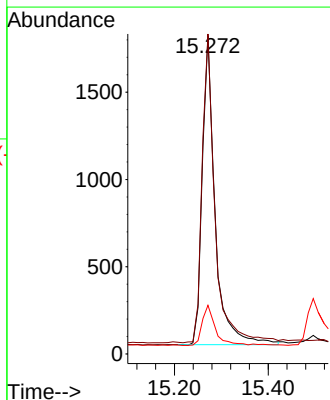
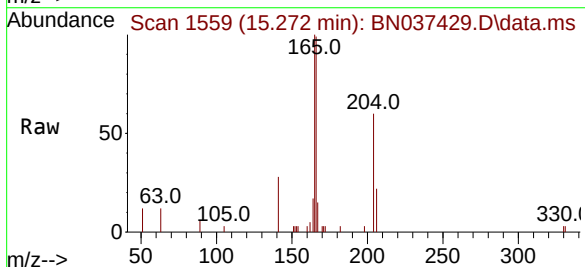
Instrument :
BNA_N
ClientSampleId :
PB168695BS

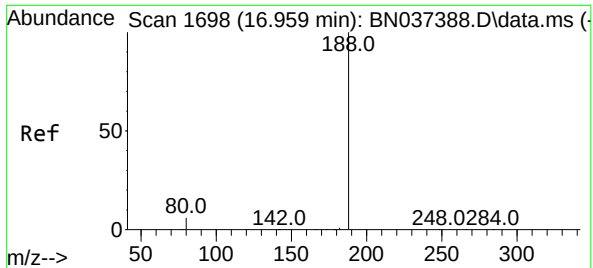
Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.0	94.6	141.8
152	59.4	50.2	75.2



#18
Fluorene
Concen: 0.325 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.4	119.2
167	13.2	10.6	15.8

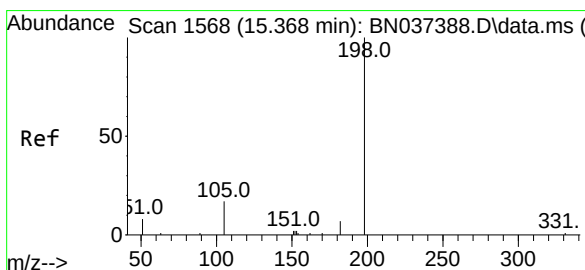
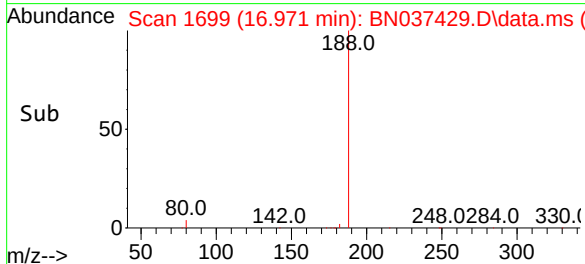
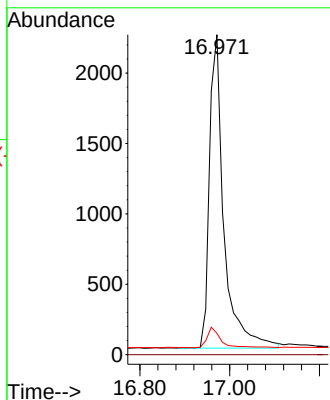
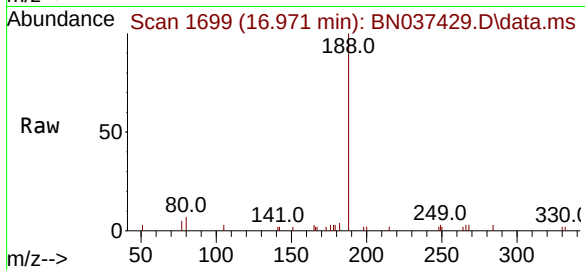




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

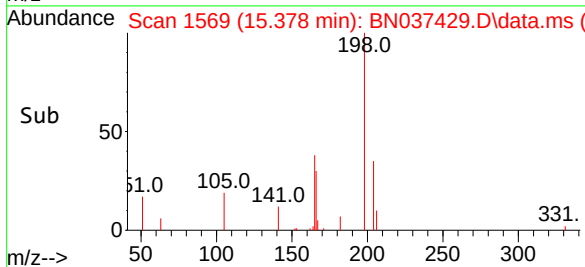
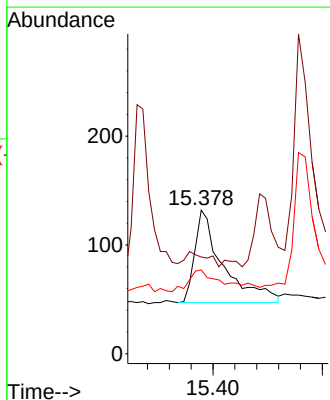
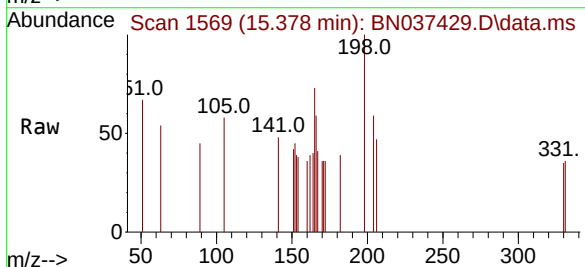
Instrument :
BNA_N
ClientSampleId :
PB168695BS

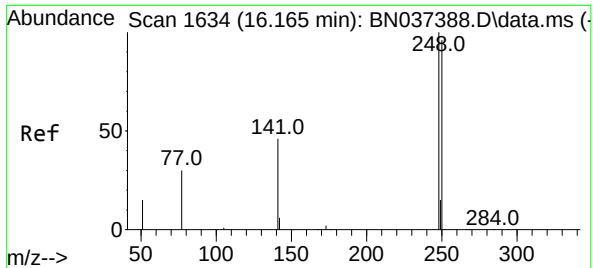
Tgt Ion:188 Resp: 4952
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.7 6.2 9.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.244 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:198 Resp: 310
Ion Ratio Lower Upper
198 100
51 67.4 38.8 58.2#
105 58.3 29.8 44.6#

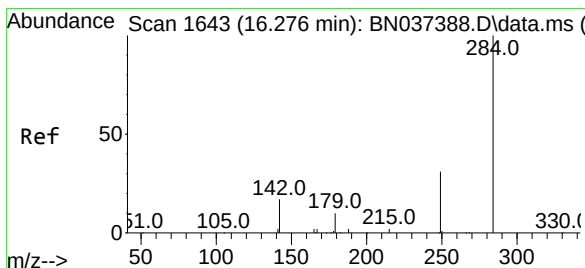
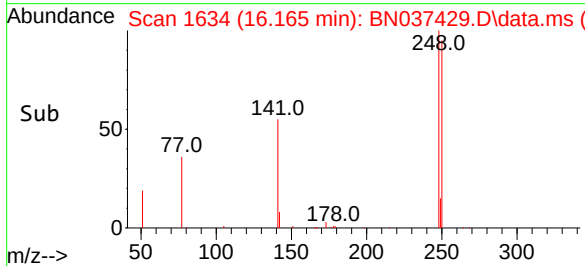
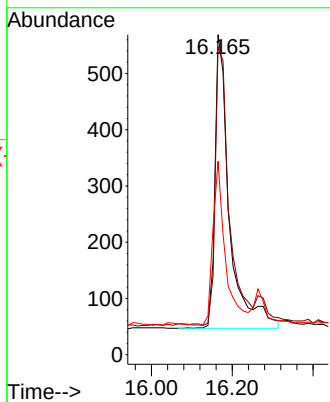
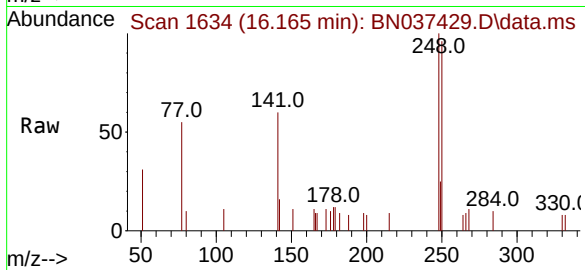




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

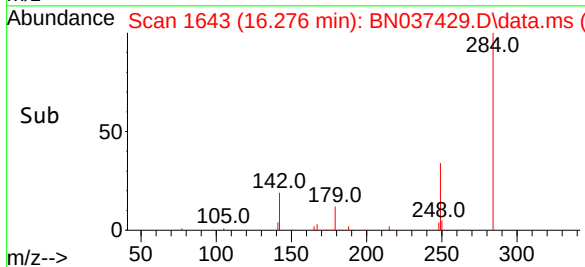
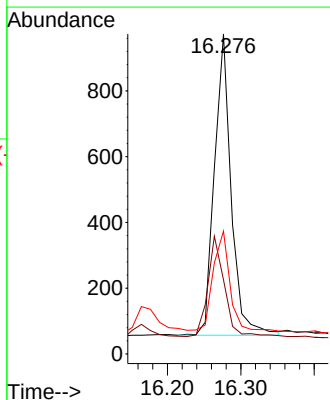
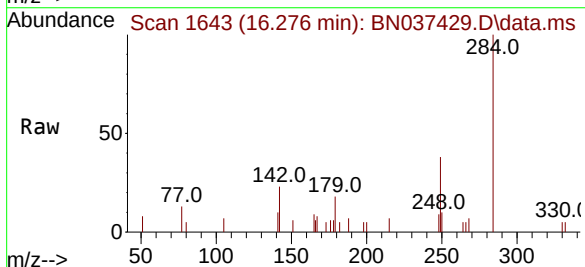
Instrument :
BNA_N
ClientSampleId :
PB168695BS

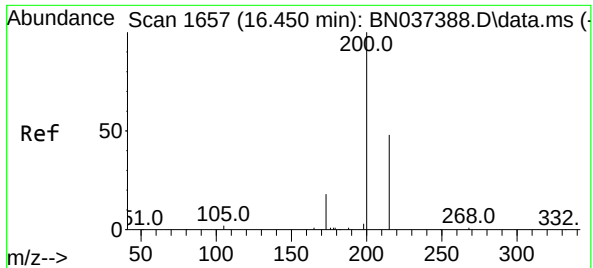
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.1	77.0	115.4
141	60.5	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.0	27.2	40.8
249	37.2	26.7	40.1

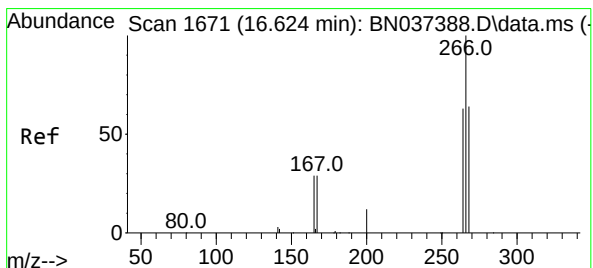
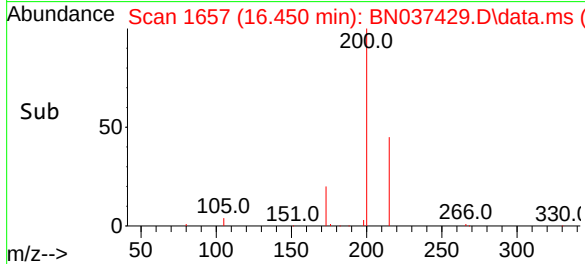
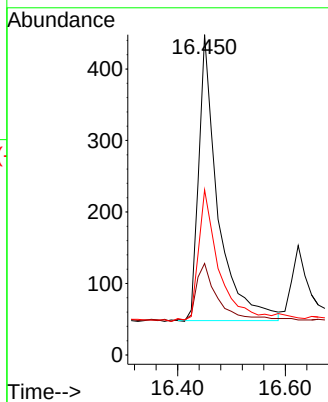
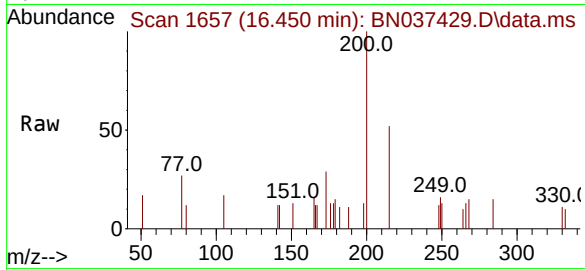




#23
Atrazine
Concen: 0.357 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

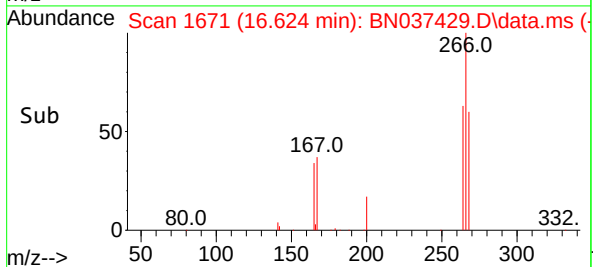
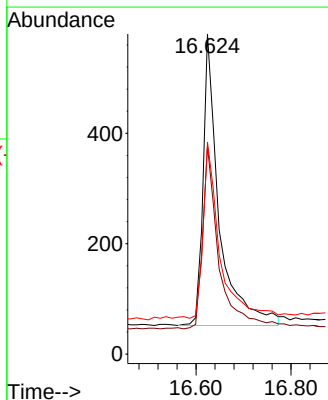
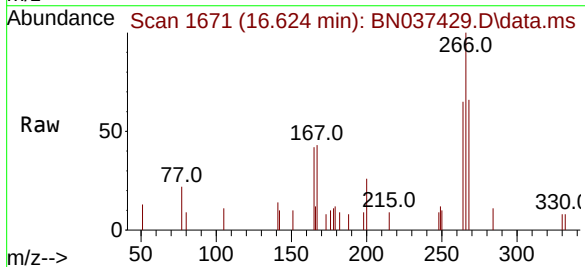
Instrument :
BNA_N
ClientSampleId :
PB168695BS

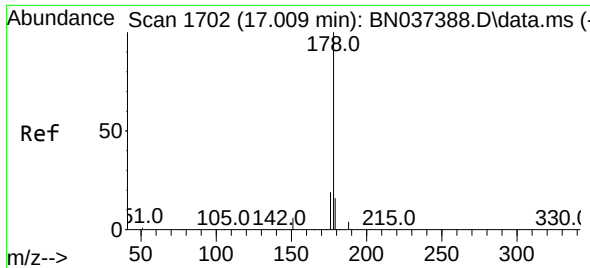
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.6	19.0	28.6
215	51.6	41.3	61.9



#24
Pentachlorophenol
Concen: 0.616 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.6	49.2	73.8
268	61.4	54.2	81.4

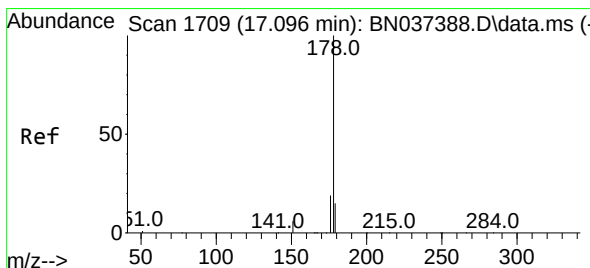
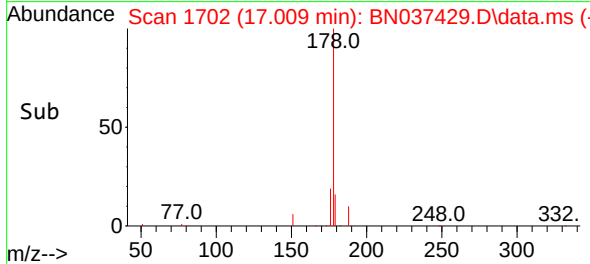
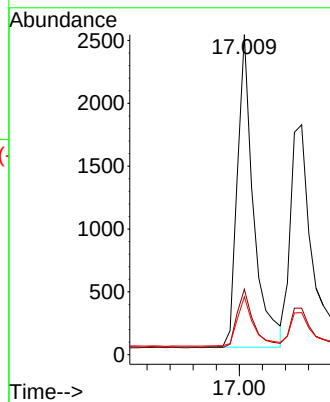
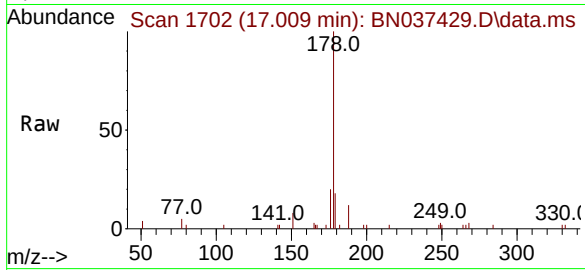




#25
Phenanthrene
Concen: 0.346 ng
RT: 17.009 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

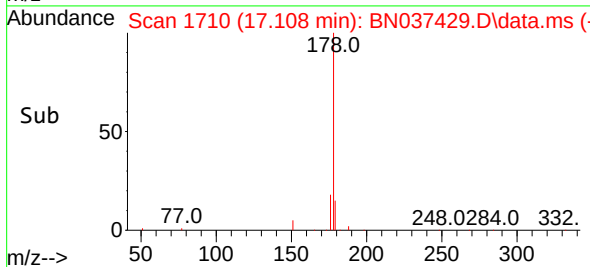
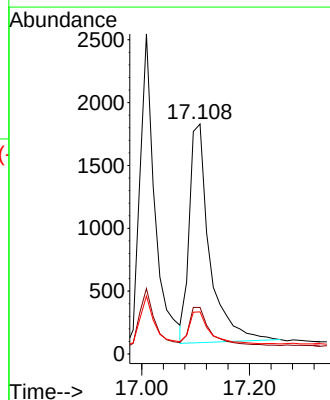
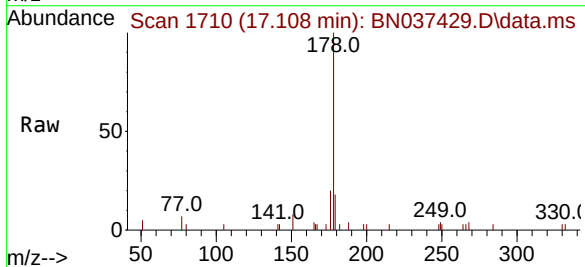
Instrument :
BNA_N
ClientSampleId :
PB168695BS

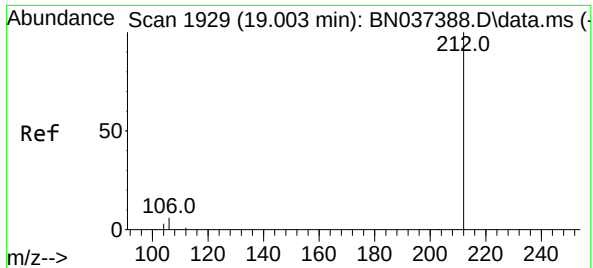
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.6	23.4
179	15.9	12.8	19.2



#26
Anthracene
Concen: 0.356 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.4	12.4	18.6

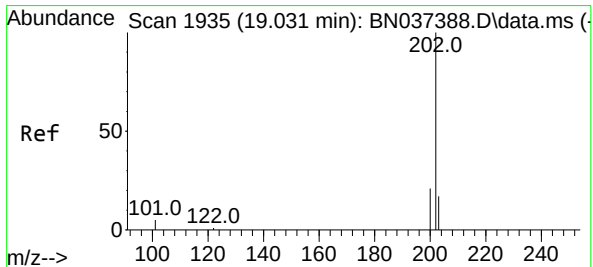
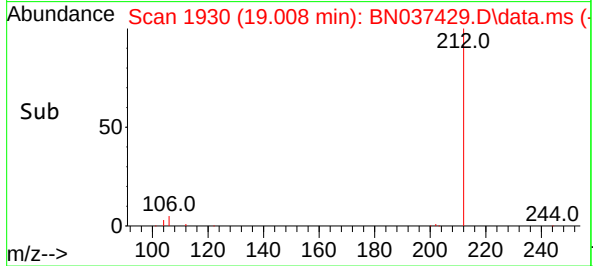
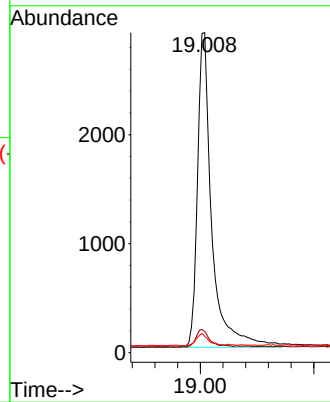
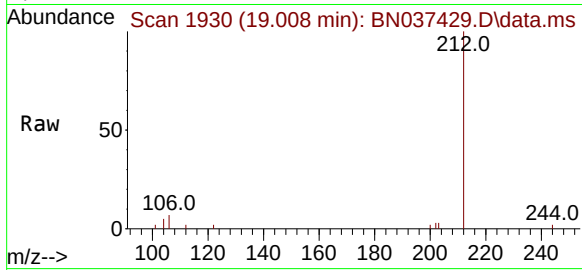




#27
Fluoranthene-d10
Concen: 0.356 ng
RT: 19.008 min Scan# 1930
Delta R.T. 0.005 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

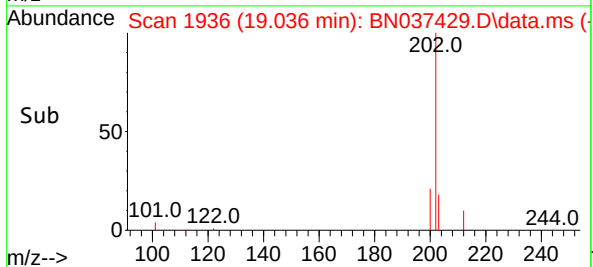
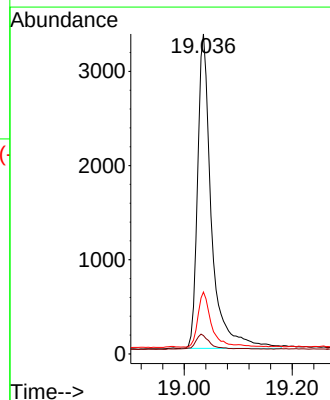
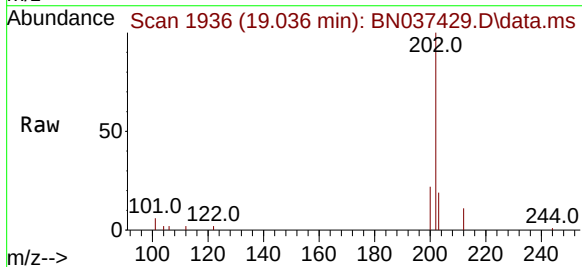
Instrument :
BNA_N
ClientSampleId :
PB168695BS

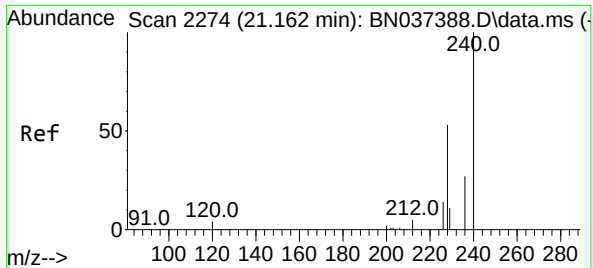
Tgt Ion	Ratio	Lower	Upper
212	100		
106	5.5	4.5	6.7
104	3.4	2.7	4.1



#28
Fluoranthene
Concen: 0.334 ng
RT: 19.036 min Scan# 1936
Delta R.T. 0.005 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion	Ratio	Lower	Upper
202	100		
101	4.6	3.8	5.6
203	17.3	13.5	20.3

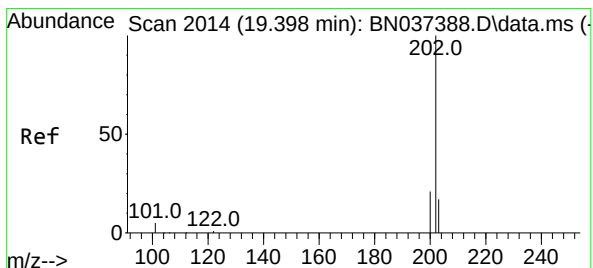
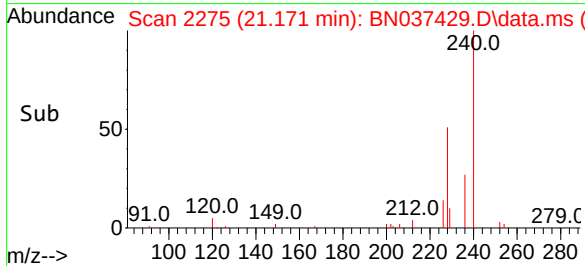
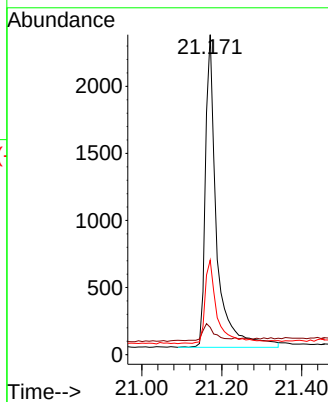
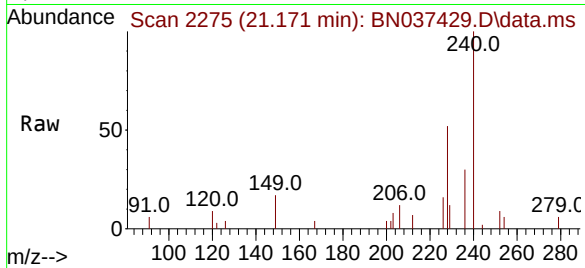




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. 0.009 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

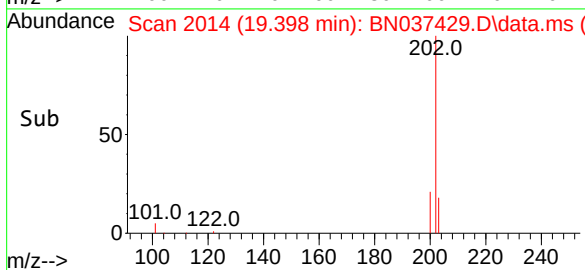
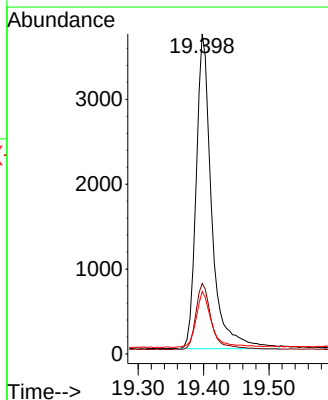
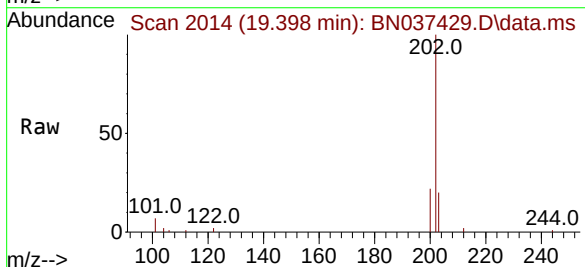
Instrument :
BNA_N
ClientSampleId :
PB168695BS

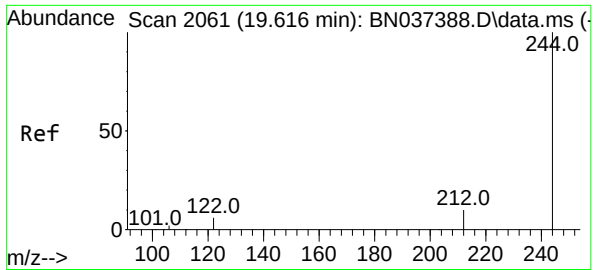
Tgt Ion:240 Resp: 4556
Ion Ratio Lower Upper
240 100
120 8.6 5.3 7.9#
236 29.5 22.7 34.1



#30
Pyrene
Concen: 0.354 ng
RT: 19.398 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:202 Resp: 6095
Ion Ratio Lower Upper
202 100
200 21.2 16.5 24.7
203 17.8 14.2 21.2

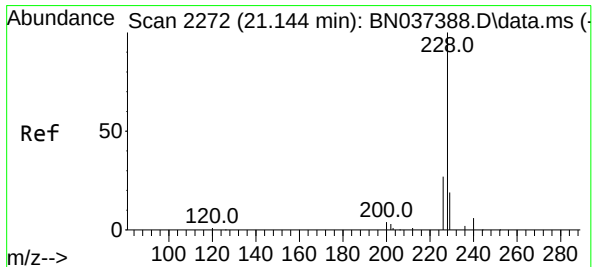
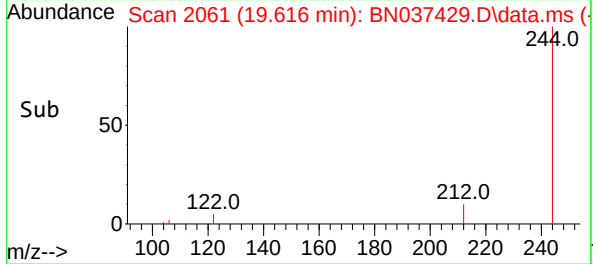
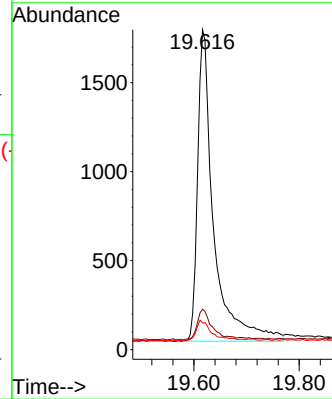
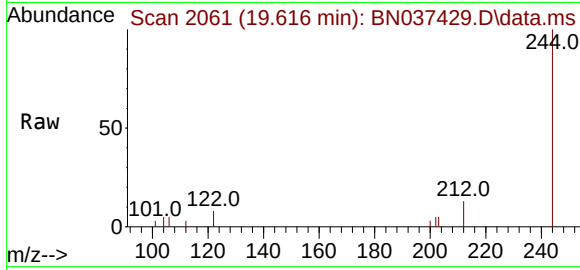




#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.616 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

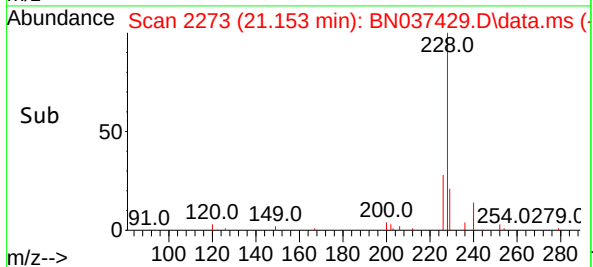
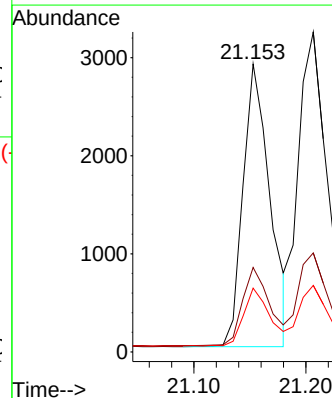
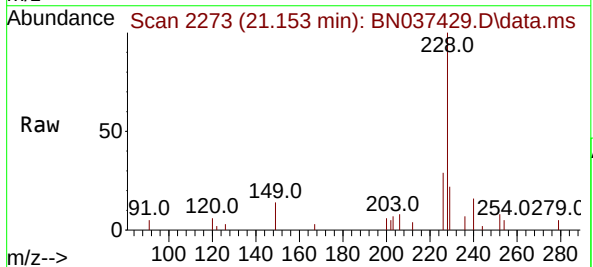
Instrument :
BNA_N
ClientSampleId :
PB168695BS

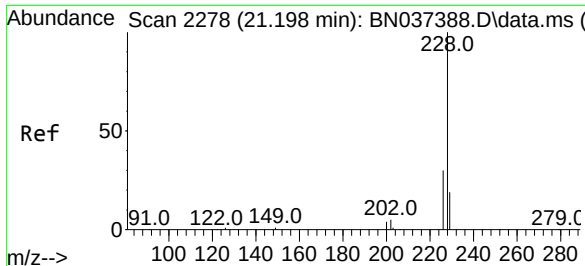
Tgt Ion:244	Resp:	3695
Ion Ratio	Lower	Upper
244	100	
212	12.6	9.1 13.7
122	8.3	6.3 9.5



#32
Benzo(a)anthracene
Concen: 0.338 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:228	Resp:	4837
Ion Ratio	Lower	Upper
228	100	
226	29.3	22.6 34.0
229	22.1	16.2 24.2

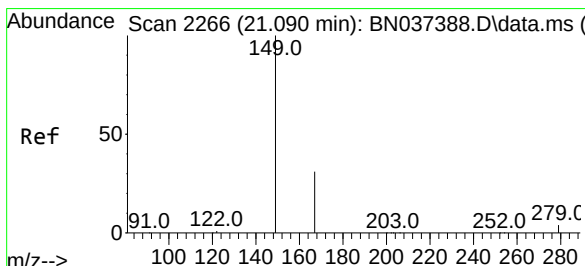
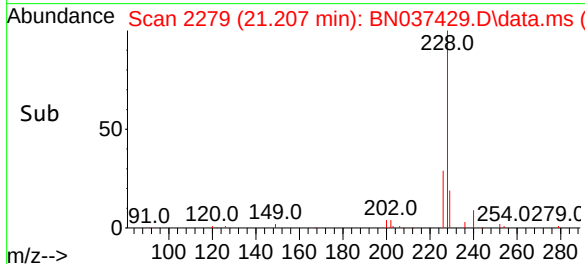
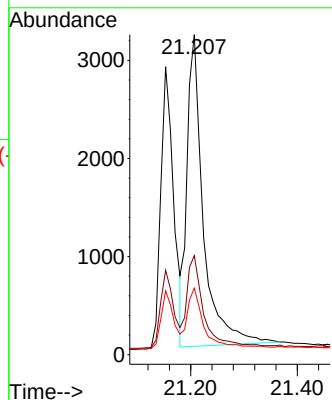
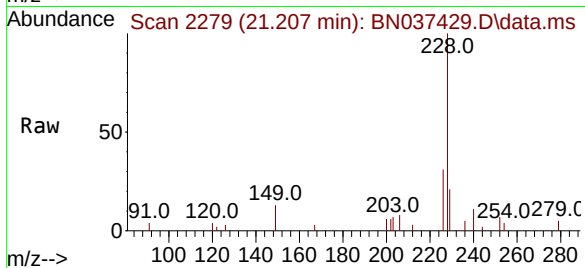




#33
Chrysene
Concen: 0.380 ng
RT: 21.207 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

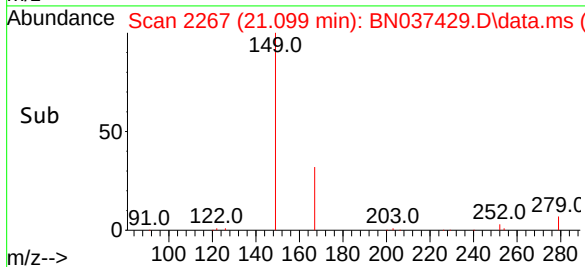
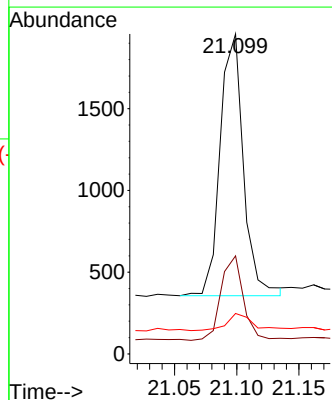
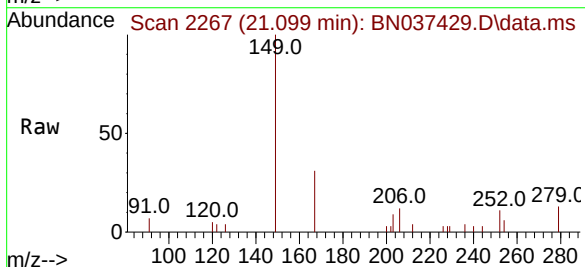
Instrument :
BNA_N
ClientSampleId :
PB168695BS

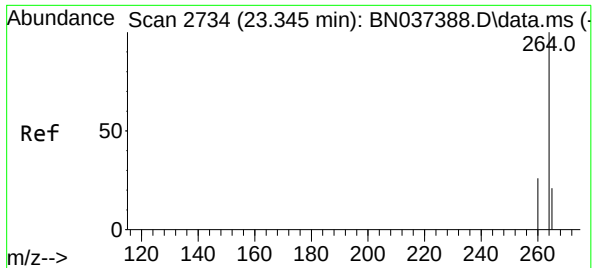
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.5	36.7
229	20.8	16.1	24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.369 ng
RT: 21.099 min Scan# 2267
Delta R.T. 0.009 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion	Ratio	Lower	Upper
149	100		
167	31.4	24.8	37.2
279	7.4	5.0	7.6

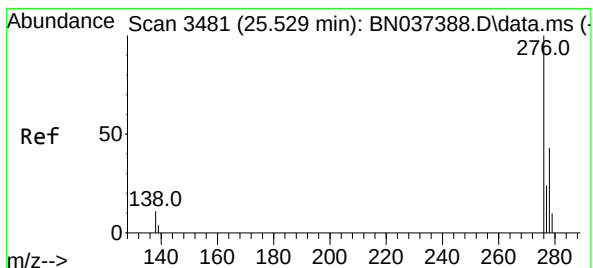
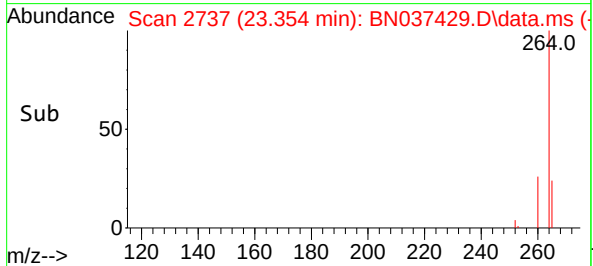
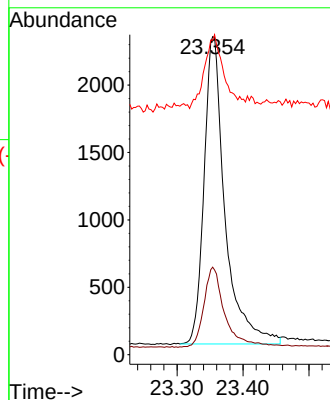
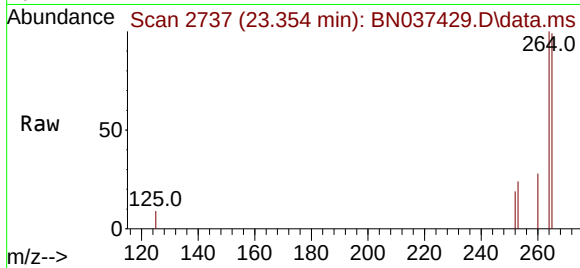




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

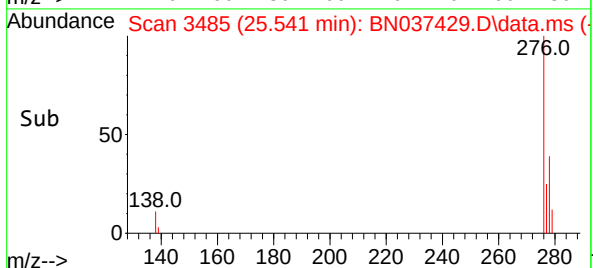
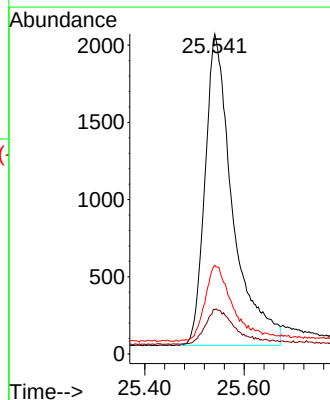
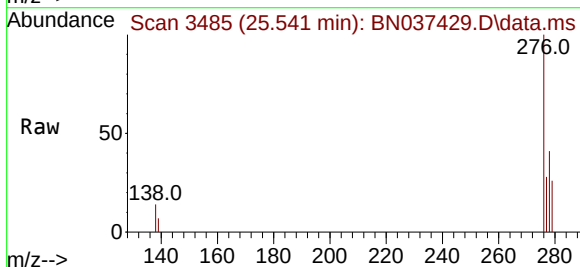
Instrument :
BNA_N
ClientSampleId :
PB168695BS

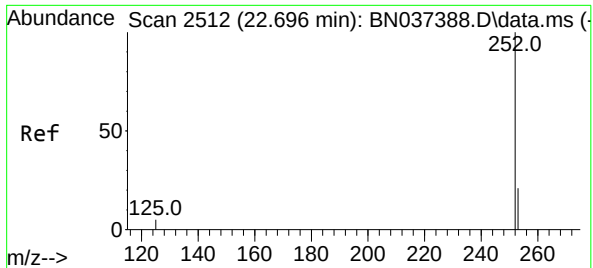
Tgt Ion:	264	Resp:	5045
Ion Ratio	Lower	Upper	
264	100		
260	27.5	21.4	32.0
265	98.8	56.2	84.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.541 min Scan# 3485
Delta R.T. 0.012 min
Lab File: BN037429.D
Acq: 02 Jul 2025 16:50

Tgt Ion:	276	Resp:	7794
Ion Ratio	Lower	Upper	
276	100		
138	12.1	8.5	12.7
277	23.1	19.7	29.5





#37

Benzo(b)fluoranthene

Concen: 0.320 ng

RT: 22.702 min Scan# 2514

Delta R.T. 0.006 min

Lab File: BN037429.D

Acq: 02 Jul 2025 16:50

Instrument :

BNA_N

ClientSampleId :

PB168695BS

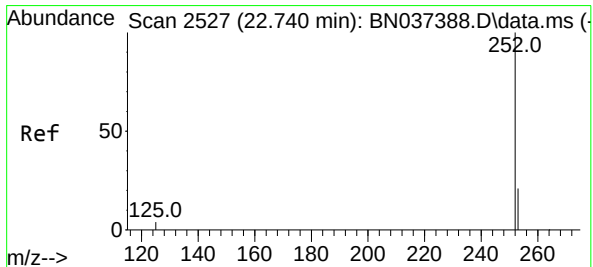
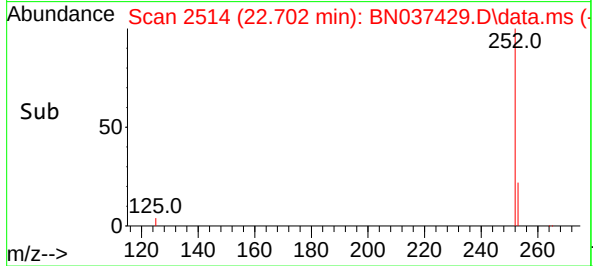
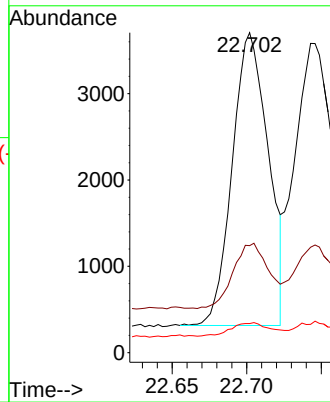
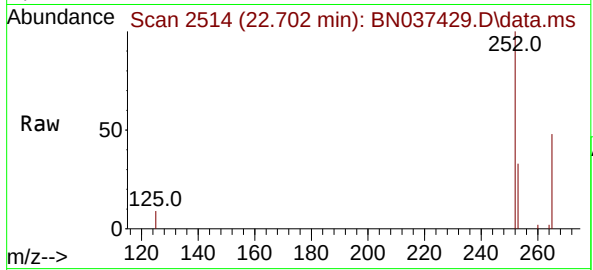
Tgt Ion:252 Resp: 5684

Ion Ratio Lower Upper

252 100

253 33.5 22.8 34.2

125 9.1 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.359 ng

RT: 22.743 min Scan# 2528

Delta R.T. 0.003 min

Lab File: BN037429.D

Acq: 02 Jul 2025 16:50

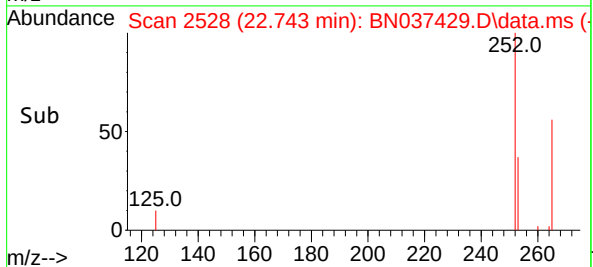
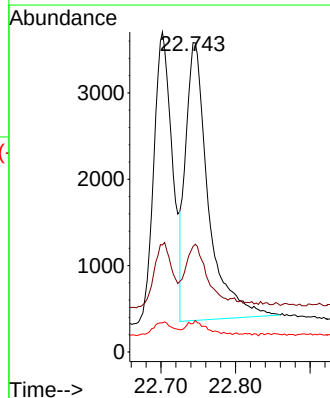
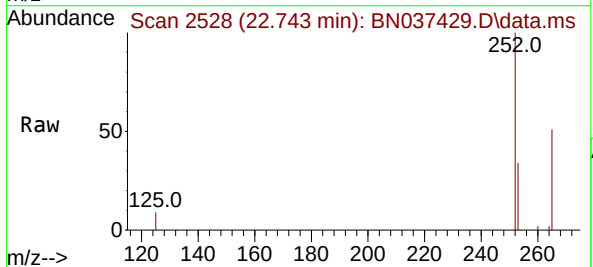
Tgt Ion:252 Resp: 6830

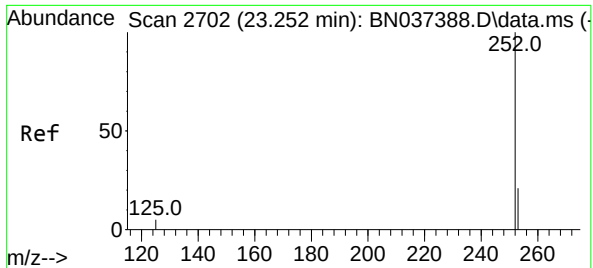
Ion Ratio Lower Upper

252 100

253 34.1 23.2 34.8

125 9.2 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.260 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037429.D

Acq: 02 Jul 2025 16:50

Instrument :

BNA_N

ClientSampleId :

PB168695BS

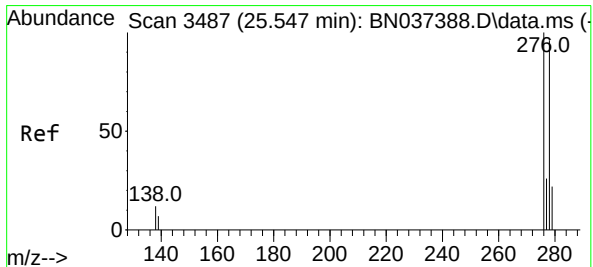
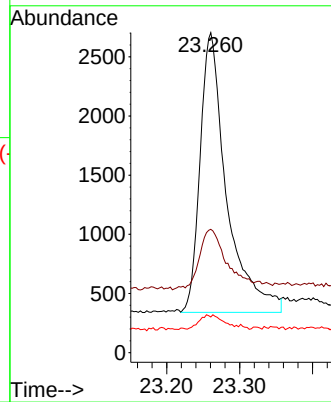
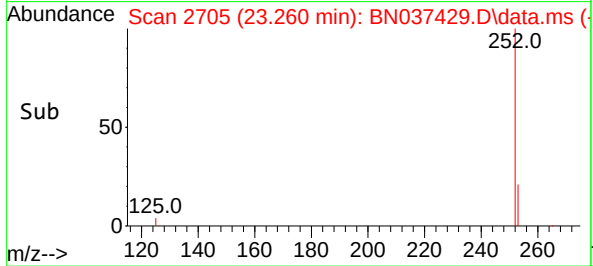
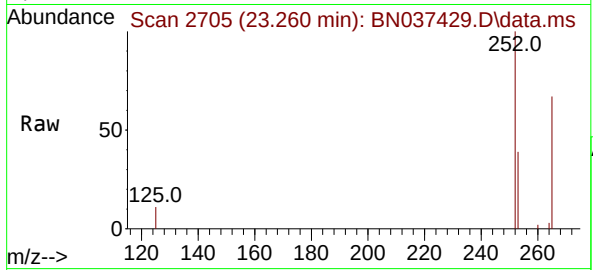
Tgt Ion:252 Resp: 5974

Ion Ratio Lower Upper

252 100

253 38.6 25.6 38.4#

125 11.2 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.335 ng

RT: 25.561 min Scan# 3492

Delta R.T. 0.015 min

Lab File: BN037429.D

Acq: 02 Jul 2025 16:50

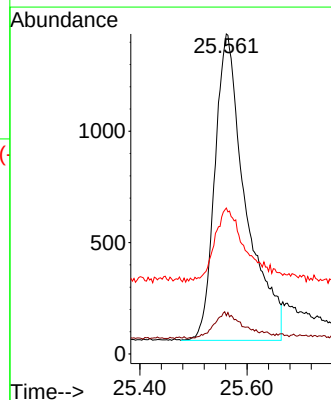
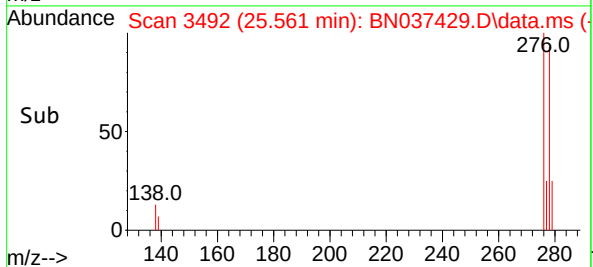
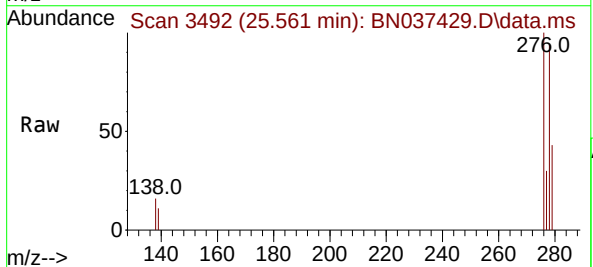
Tgt Ion:278 Resp: 5481

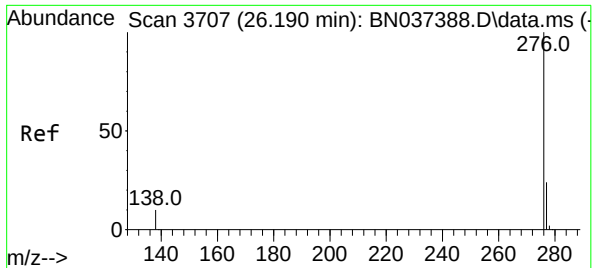
Ion Ratio Lower Upper

278 100

139 12.0 8.5 12.7

279 45.6 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 0.370 ng

RT: 26.196 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN037429.D

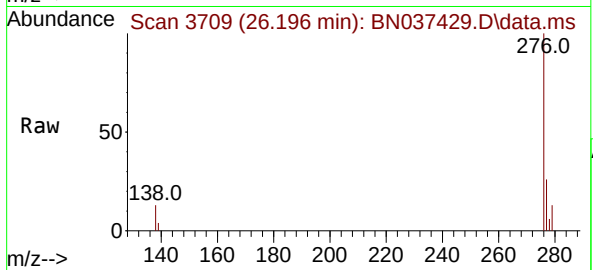
Acq: 02 Jul 2025 16:50

Instrument :

BNA_N

ClientSampleId :

PB168695BS



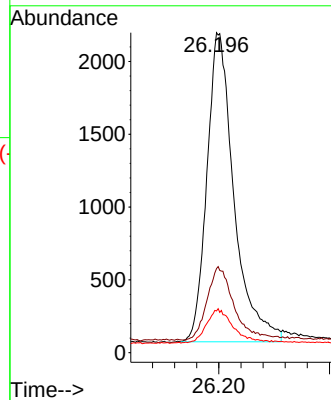
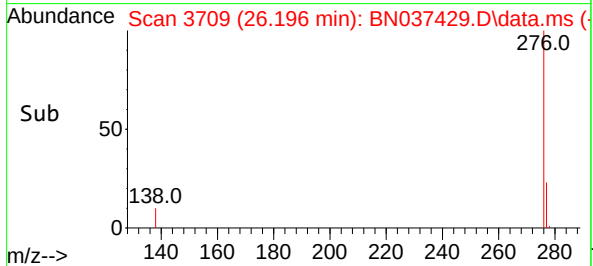
Tgt Ion:276 Resp: 7217

Ion Ratio Lower Upper

276 100

277 26.3 21.0 31.4

138 13.1 9.6 14.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168695BSD	SDG No.:	Q2439
Lab Sample ID:	PB168695BSD	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
BN037430.D	1	07/02/25 09:05	07/02/25 17:27	PB168695

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	0.47		30 - 150		117%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		91%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1960	7.56				
1146-65-2	Naphthalene-d8	4090	10.34				
15067-26-2	Acenaphthene-d10	2590	14.213				
1517-22-2	Phenanthrene-d10	4790	16.971				
1719-03-5	Chrysene-d12	4440	21.171				
1520-96-3	Perylene-d12	5090	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\BN070225\
 Data File : BN037430.D
 Acq On : 02 Jul 2025 17:27
 Operator : RC/JU
 Sample : PB168695BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168695BSD

Quant Time: Jul 02 17:55:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

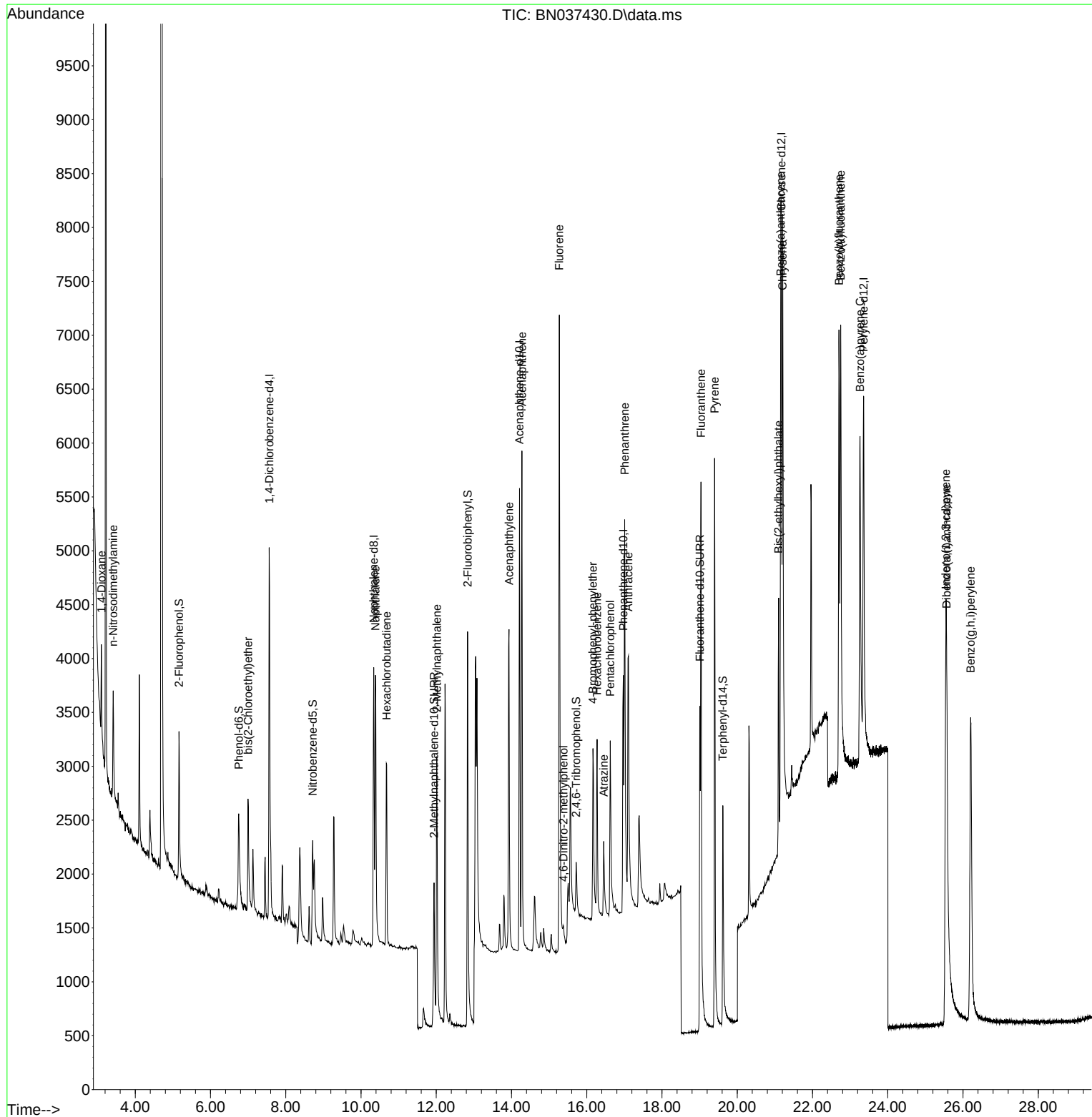
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1957	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4090	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2586	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4790	0.400	ng	0.01
29) Chrysene-d12	21.171	240	4441	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	5091	0.400	ng	# 0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1355	0.359	ng	0.00
5) Phenol-d6	6.751	99	1291	0.330	ng	0.00
8) Nitrobenzene-d5	8.717	82	1158	0.353	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2970	0.469	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	477	0.314	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	4275	0.383	ng	0.00
27) Fluoranthene-d10	19.007	212	4887	0.356	ng	0.00
31) Terphenyl-d14	19.616	244	3443	0.364	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	559	0.301	ng	# 59
3) n-Nitrosodimethylamine	3.415	42	668	0.364	ng	# 92
6) bis(2-Chloroethyl)ether	6.997	93	1140	0.328	ng	89
9) Naphthalene	10.383	128	3771	0.358	ng	99
10) Hexachlorobutadiene	10.682	225	1627	0.389	ng	# 97
12) 2-Methylnaphthalene	12.016	142	2274	0.314	ng	98
16) Acenaphthylene	13.935	152	4087	0.381	ng	100
17) Acenaphthene	14.277	154	2490	0.356	ng	97
18) Fluorene	15.271	166	3284	0.332	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	276	0.224	ng	# 62
21) 4-Bromophenyl-phenylether	16.164	248	1253	0.371	ng	# 89
22) Hexachlorobenzene	16.276	284	1469	0.404	ng	97
23) Atrazine	16.450	200	944	0.353	ng	# 93
24) Pentachlorophenol	16.624	266	1209	0.616	ng	99
25) Phenanthrene	17.009	178	4601	0.341	ng	99
26) Anthracene	17.108	178	4364	0.352	ng	98
28) Fluoranthene	19.035	202	5898	0.342	ng	99
30) Pyrene	19.398	202	5874	0.350	ng	98
32) Benzo(a)anthracene	21.153	228	4757	0.341	ng	98
33) Chrysene	21.206	228	6724	0.389	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2188	0.396	ng	97
36) Indeno(1,2,3-cd)pyrene	25.544	276	8291	0.386	ng	95
37) Benzo(b)fluoranthene	22.705	252	5779	0.322	ng	# 90
38) Benzo(k)fluoranthene	22.749	252	7025	0.366	ng	# 93
39) Benzo(a)pyrene	23.263	252	6090	0.381	ng	# 89
40) Dibenzo(a,h)anthracene	25.564	278	5898	0.358	ng	# 90
41) Benzo(g,h,i)perylene	26.204	276	7365	0.374	ng	98

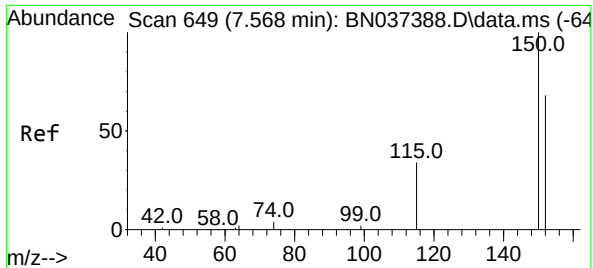
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037430.D
Acq On : 02 Jul 2025 17:27
Operator : RC/JU
Sample : PB168695BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168695BSD

Quant Time: Jul 02 17:55:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

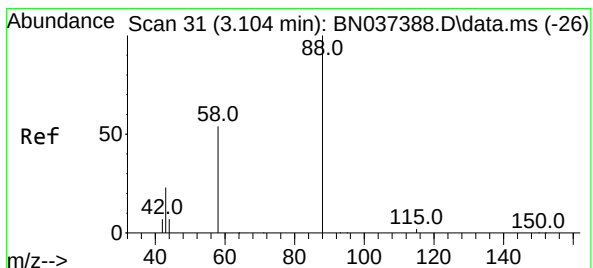
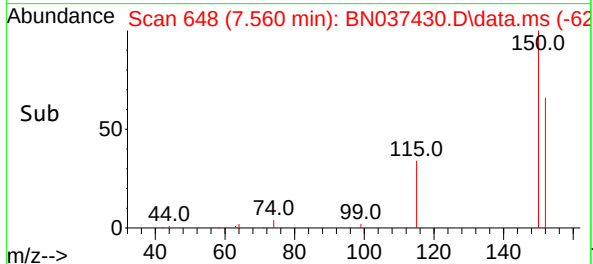
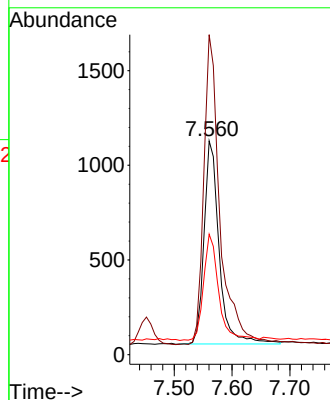
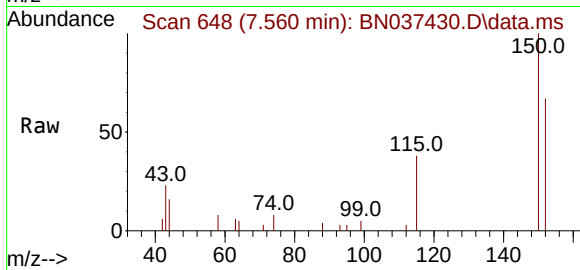




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

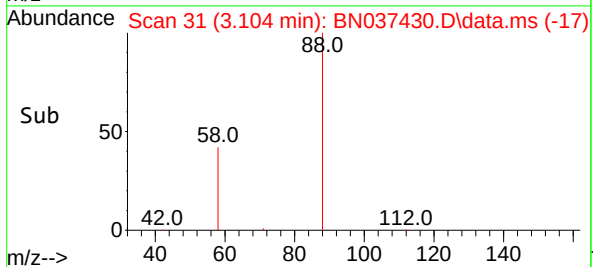
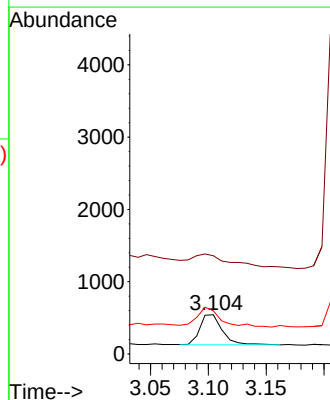
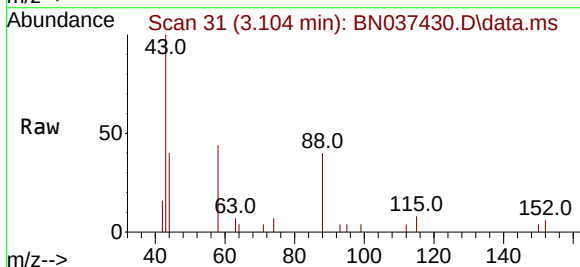
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

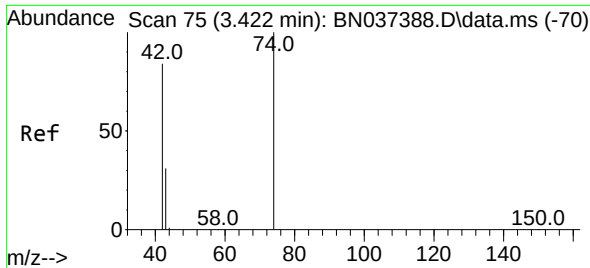
Tgt Ion:152 Resp: 1957
Ion Ratio Lower Upper
152 100
150 149.7 116.2 174.2
115 56.3 42.9 64.3



#2
1,4-Dioxane
Concen: 0.301 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion: 88 Resp: 559
Ion Ratio Lower Upper
88 100
43 76.7 21.6 32.4#
58 68.9 45.9 68.9

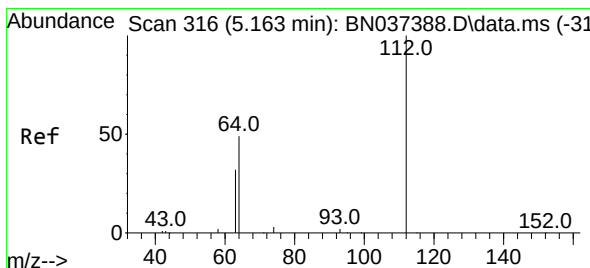
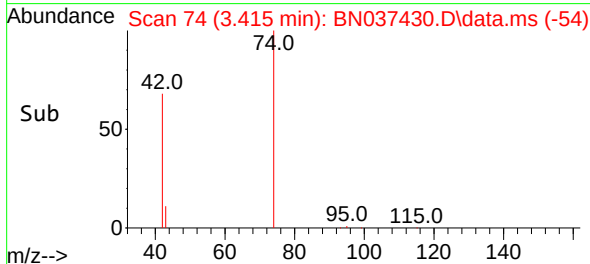
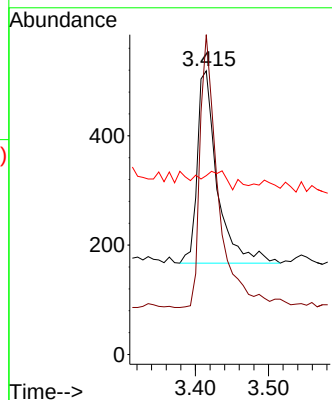
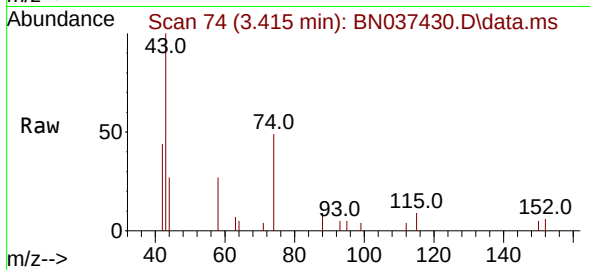




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

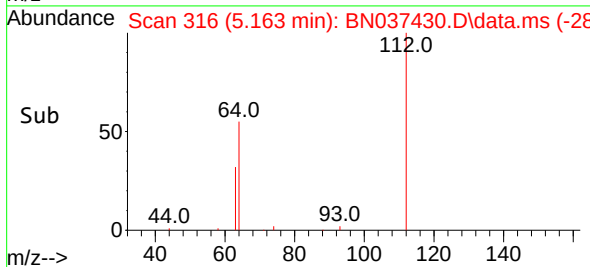
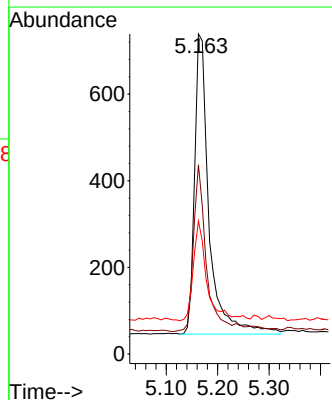
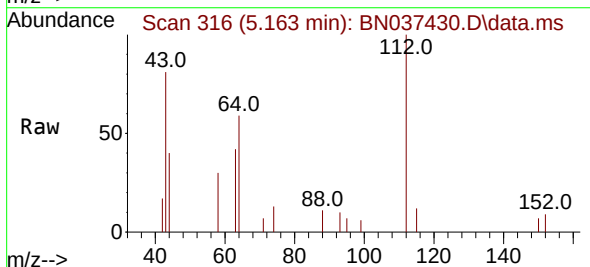
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

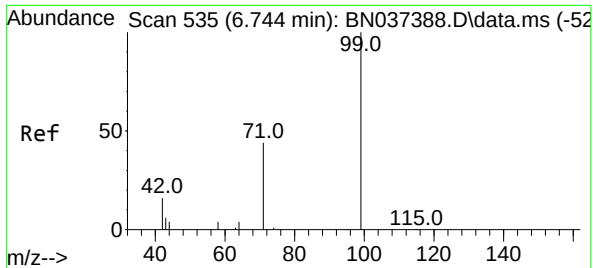
Tgt Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
74 129.3 97.8 146.8
44 0.0 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.359 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion: 112 Resp: 1355
Ion Ratio Lower Upper
112 100
64 50.0 40.3 60.5
63 31.3 26.1 39.1

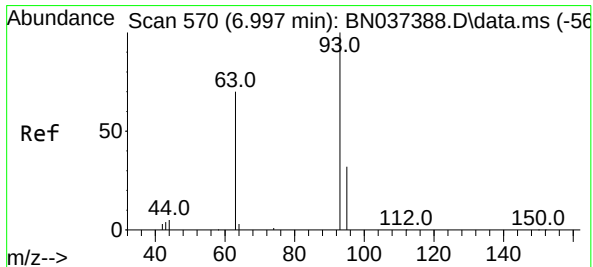
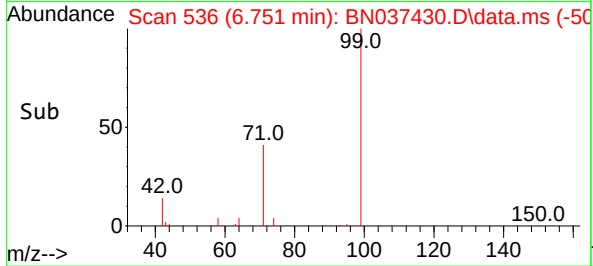
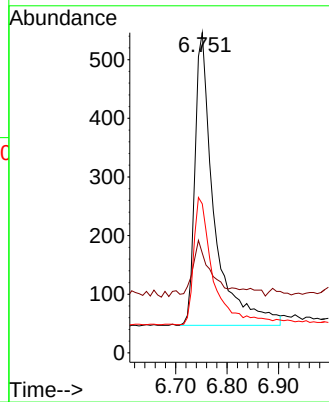
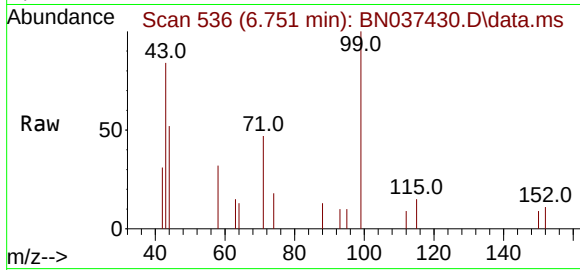




#5
Phenol-d6
Concen: 0.330 ng
RT: 6.751 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

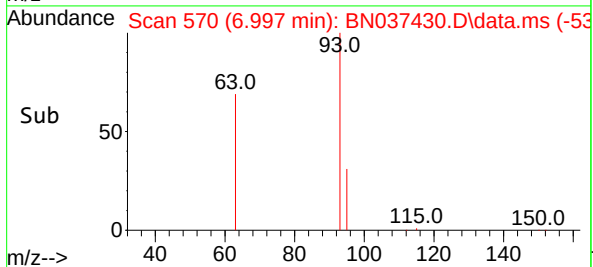
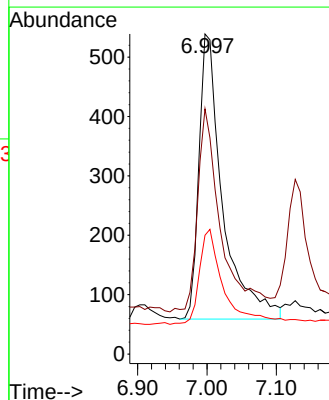
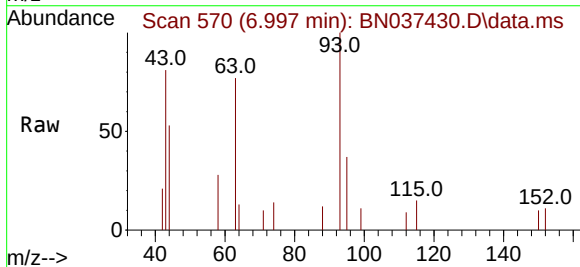
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

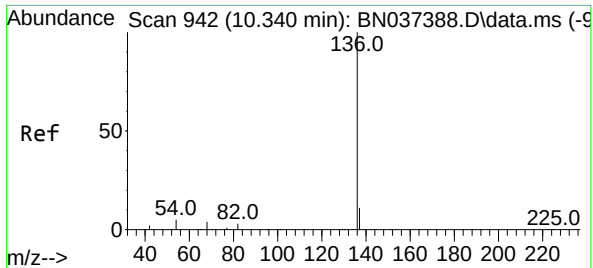
Tgt Ion	Ratio	Lower	Upper
99	100		
42	15.3	15.6	23.4#
71	44.3	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.328 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion	Ratio	Lower	Upper
93	100		
63	70.3	49.6	74.4
95	35.9	23.9	35.9

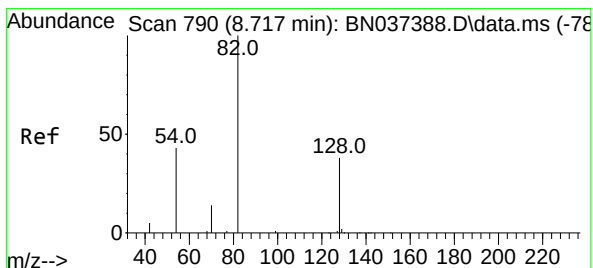
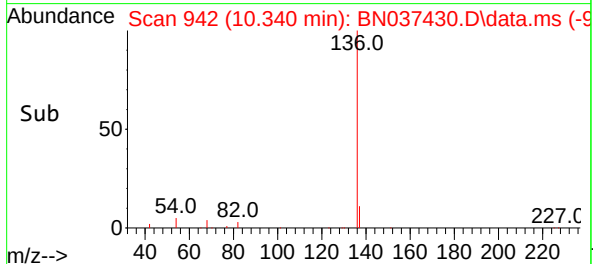
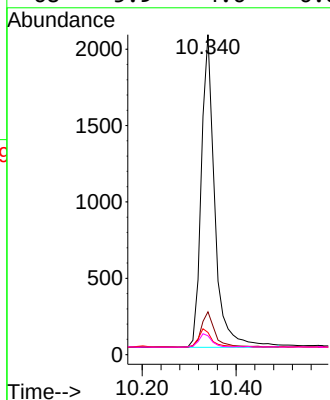
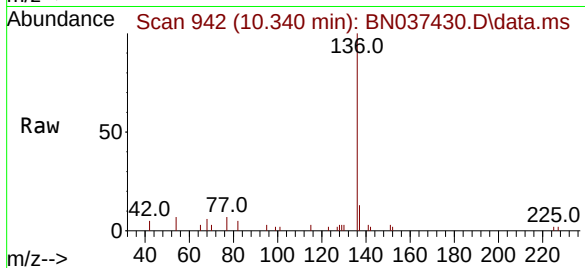




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

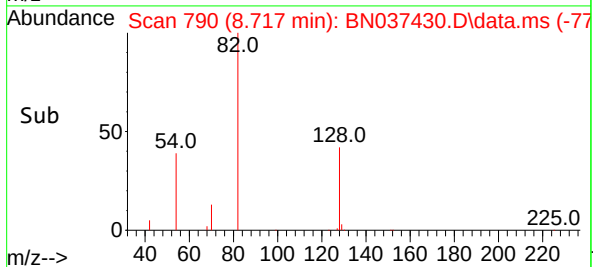
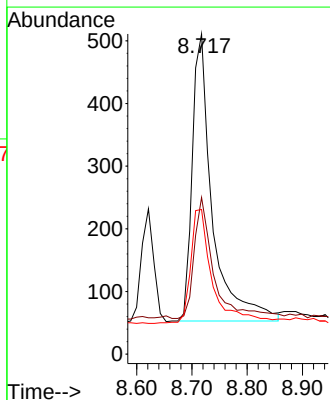
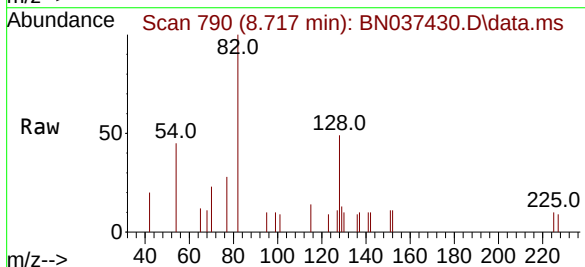
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

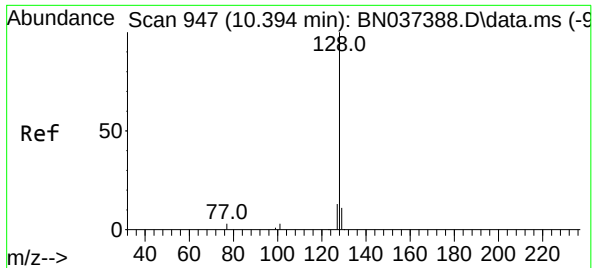
Tgt Ion:	136	Resp:	4090
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.4	15.6
54	7.0	5.6	8.4
68	5.9	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:	82	Resp:	1158
Ion	Ratio	Lower	Upper
82	100		
128	48.9	34.0	51.0
54	45.2	37.7	56.5

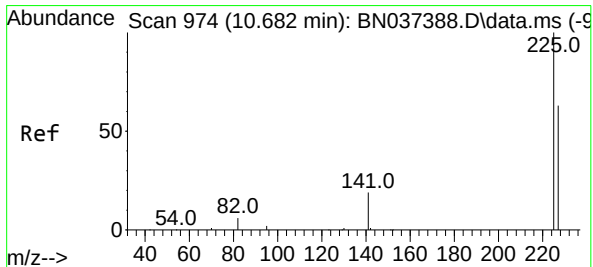
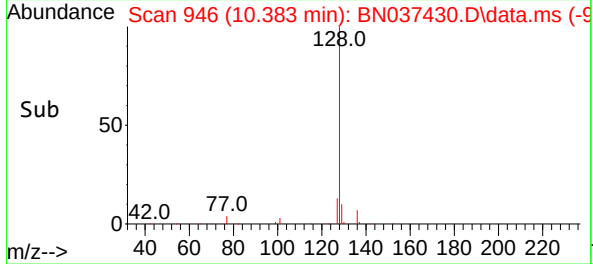
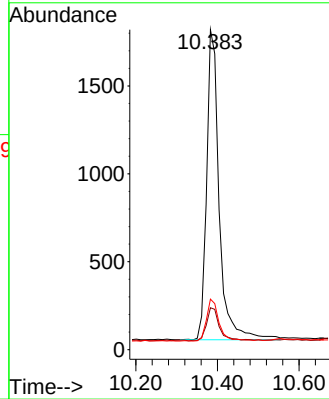
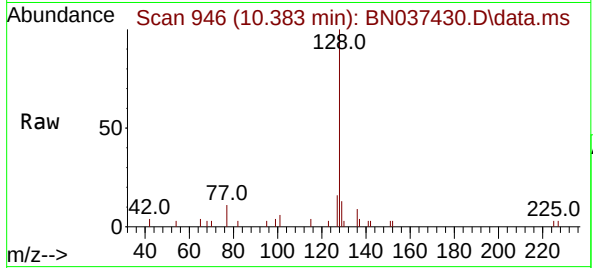




#9
Naphthalene
Concen: 0.358 ng
RT: 10.383 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

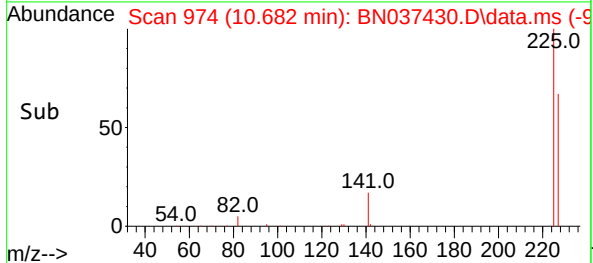
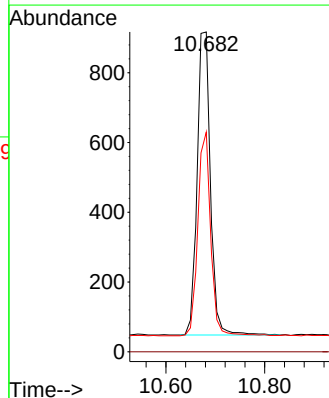
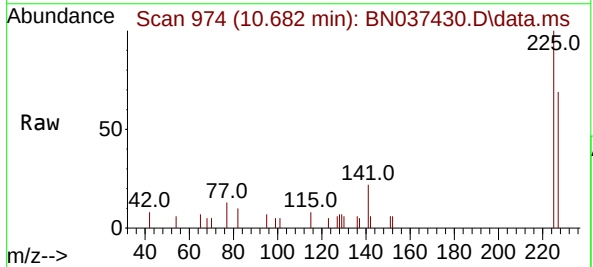
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

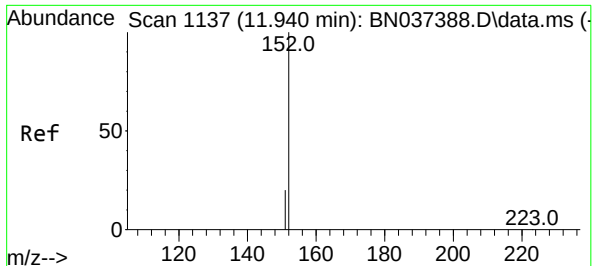
Tgt Ion:	128	Resp:	3771
Ion	Ratio	Lower	Upper
128	100		
129	13.1	10.4	15.6
127	15.8	12.2	18.4



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:	225	Resp:	1627
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	49.9	74.9

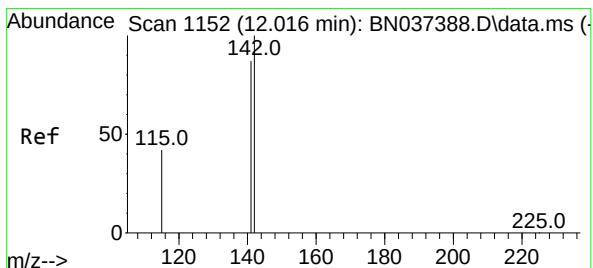
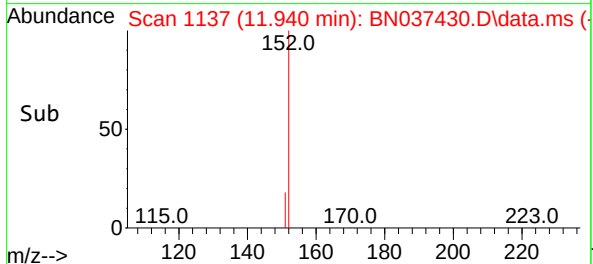
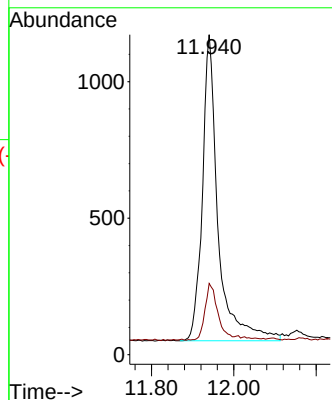
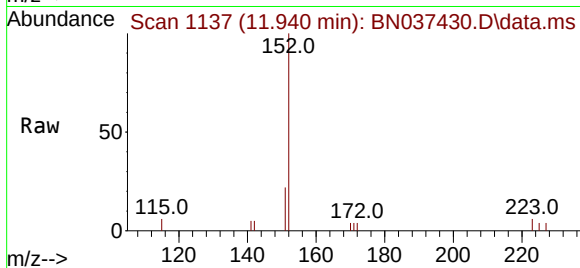




#11
2-Methylnaphthalene-d10
Concen: 0.469 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

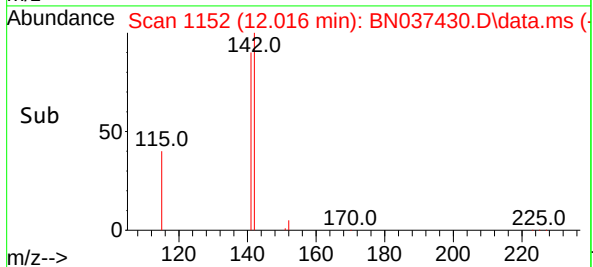
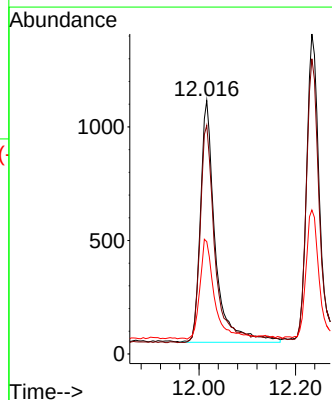
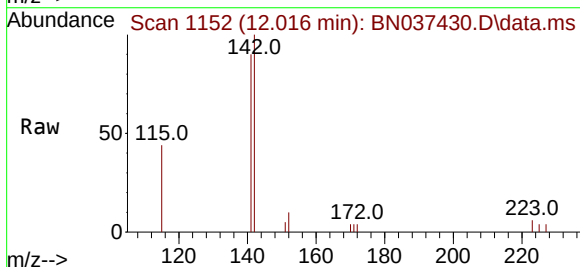
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

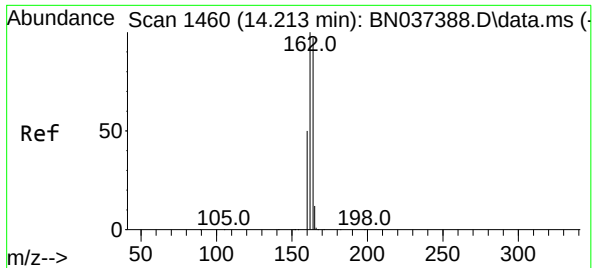
Tgt Ion:152 Resp: 2970
Ion Ratio Lower Upper
152 100
151 15.2 18.4 27.6#



#12
2-Methylnaphthalene
Concen: 0.314 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:142 Resp: 2274
Ion Ratio Lower Upper
142 100
141 90.2 70.1 105.1
115 44.4 35.8 53.6

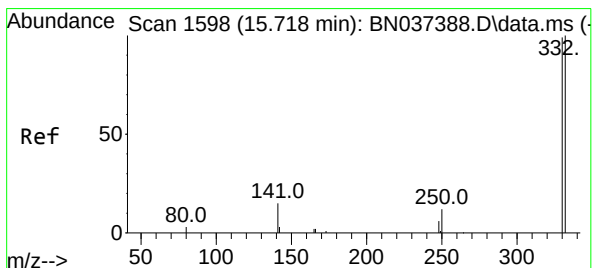
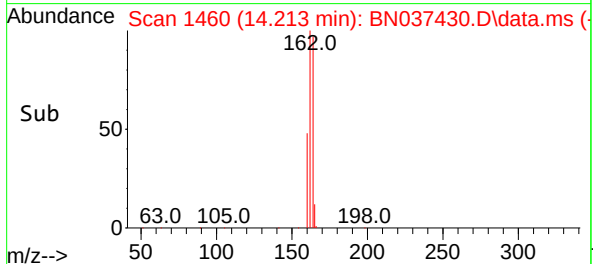
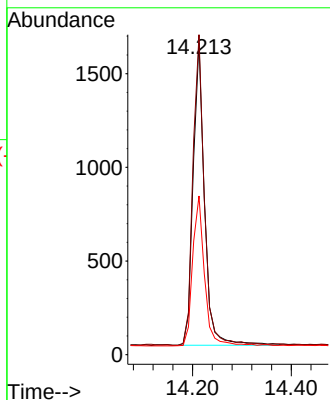
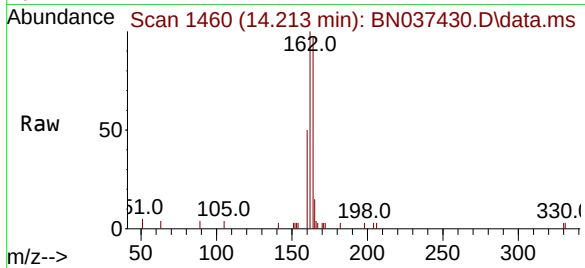




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

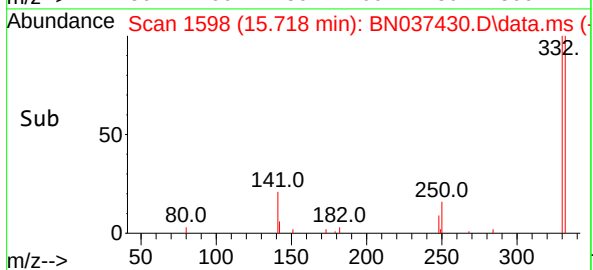
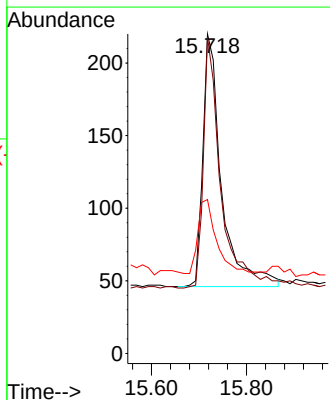
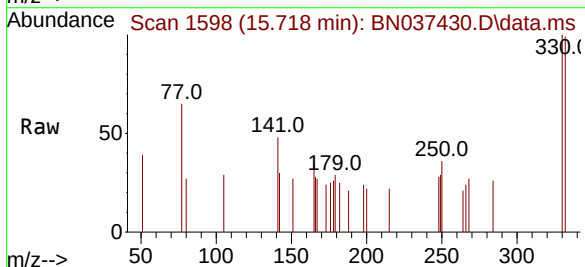
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

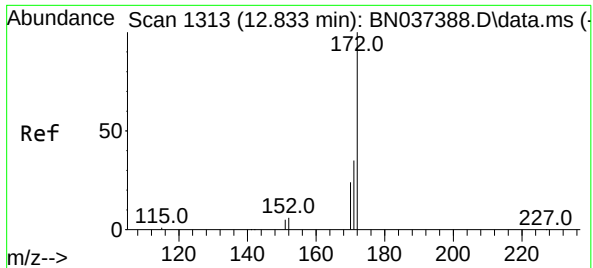
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.6	123.8
160	50.9	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.314 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.5	77.8	116.8
141	29.1	24.0	36.0

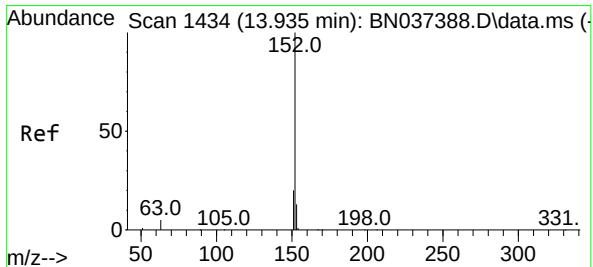
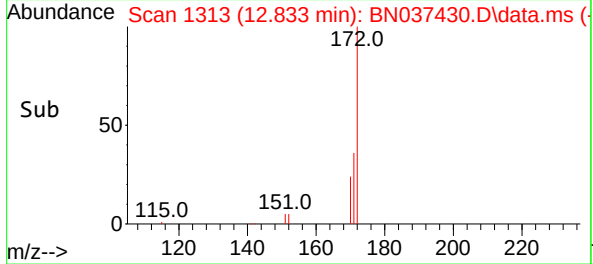
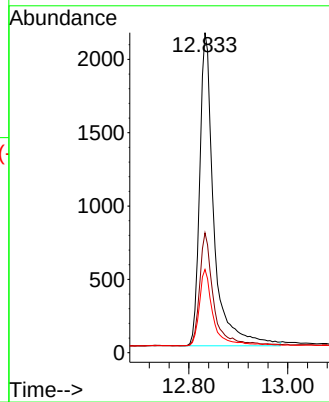
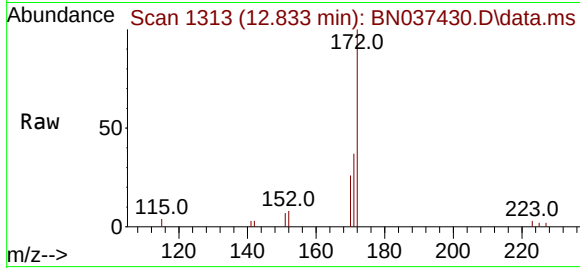




#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

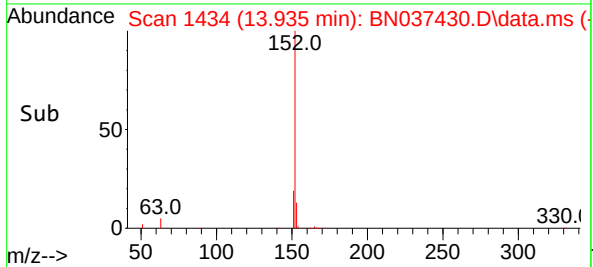
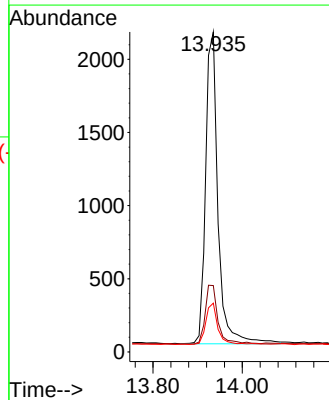
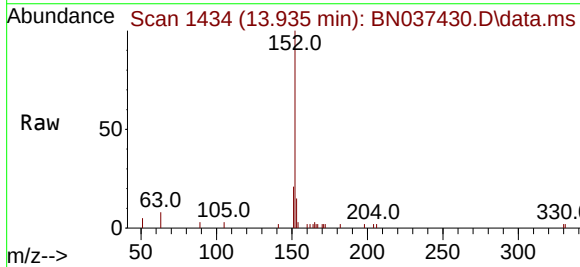
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

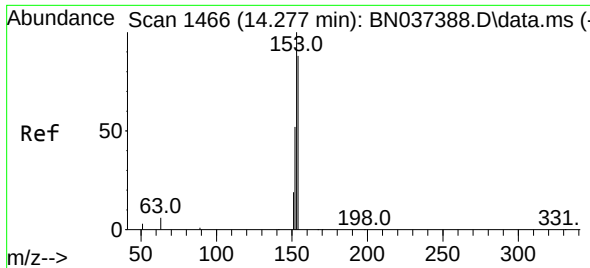
Tgt Ion:	172	Resp:	4275
Ion Ratio	Lower	Upper	
172	100		
171	37.4	28.8	43.2
170	26.0	20.3	30.5



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:	152	Resp:	4087
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.6
153	13.0	10.3	15.5

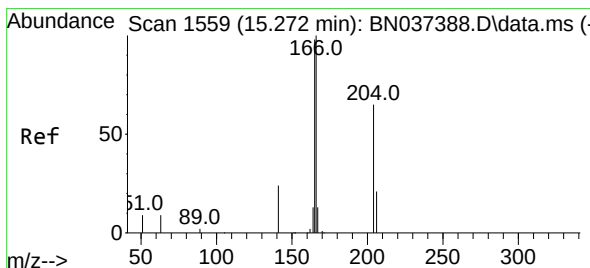
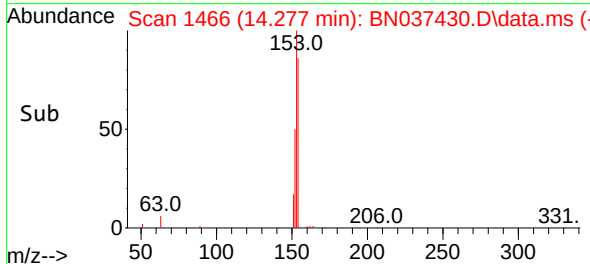
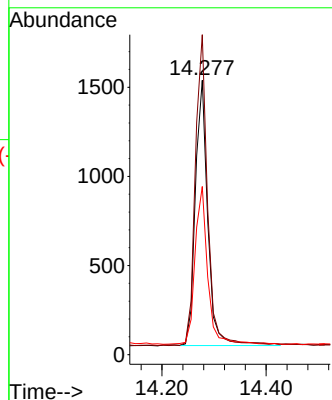
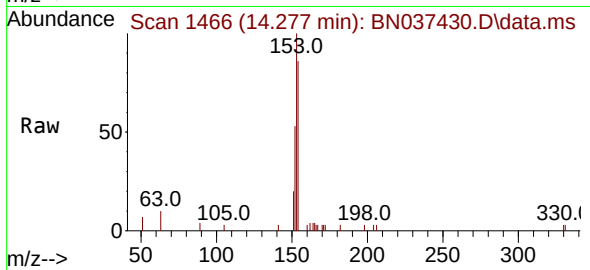




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

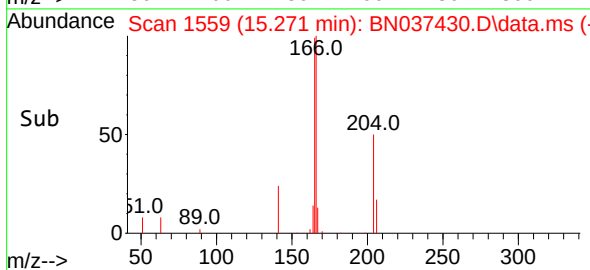
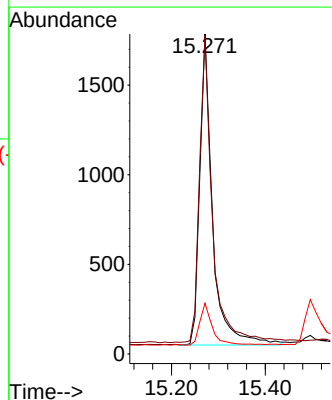
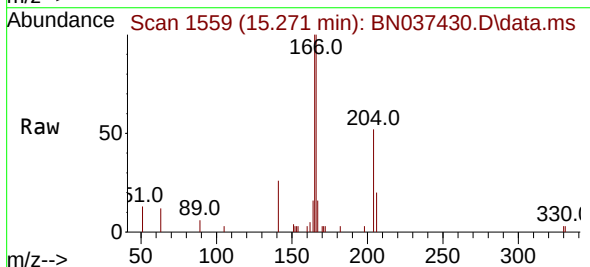
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

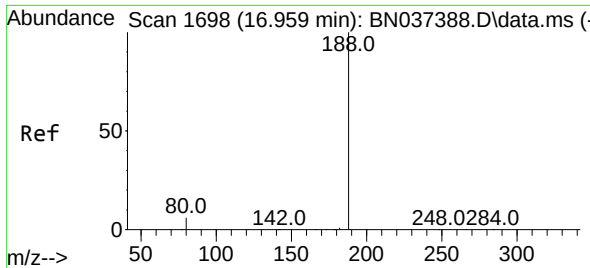
Tgt Ion	154	Resp:	2490
Ion Ratio	Lower	Upper	
154	100		
153	115.0	94.6	141.8
152	60.2	50.2	75.2



#18
Fluorene
Concen: 0.332 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion	166	Resp:	3284
Ion Ratio	Lower	Upper	
166	100		
165	100.5	79.4	119.2
167	13.4	10.6	15.8

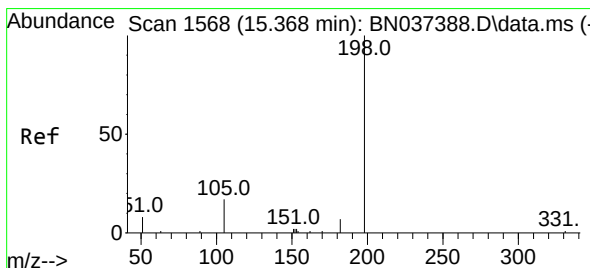
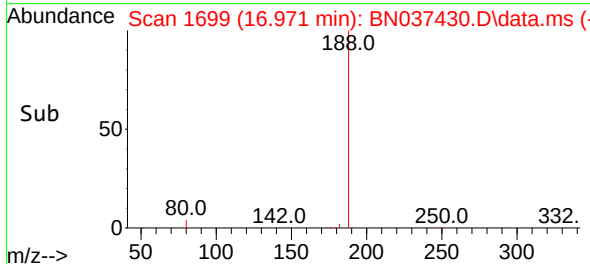
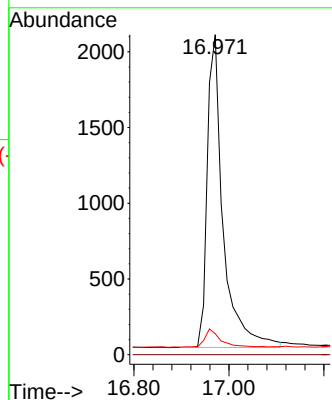
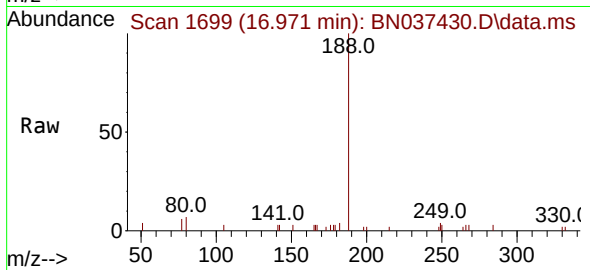




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

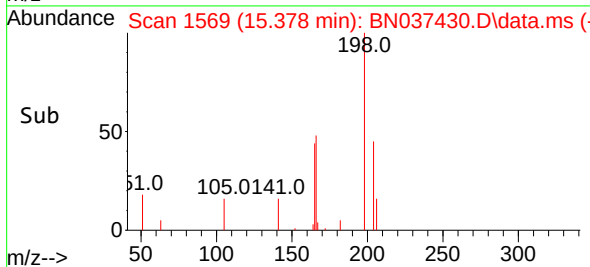
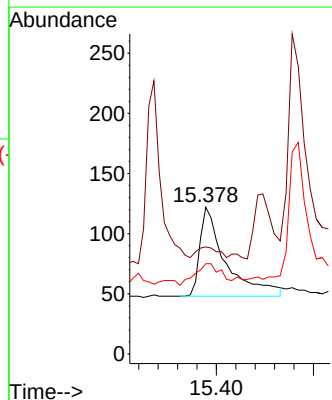
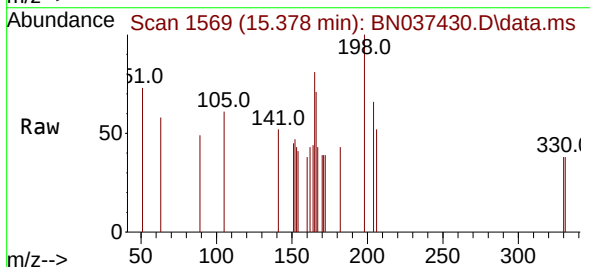
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

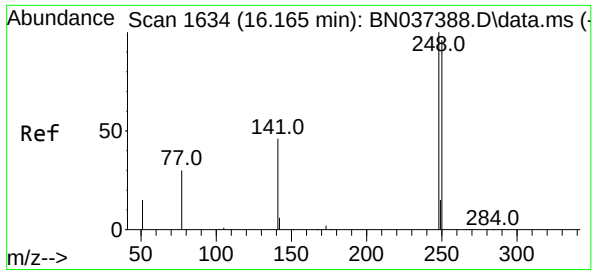
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.6	6.2	9.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.224 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion	Ratio	Lower	Upper
198	100		
51	73.0	38.8	58.2#
105	61.5	29.8	44.6#

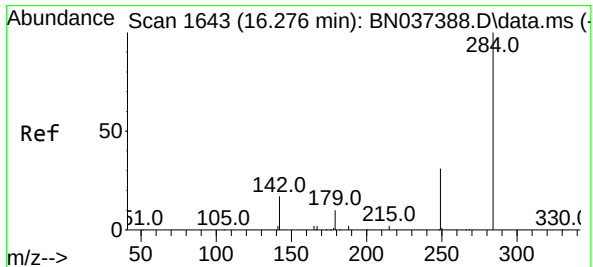
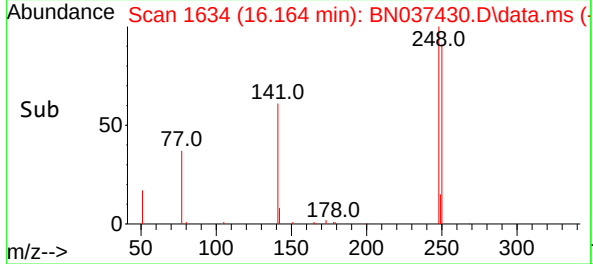
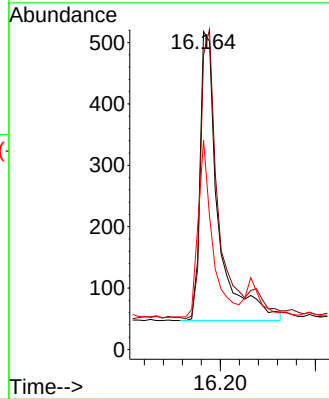
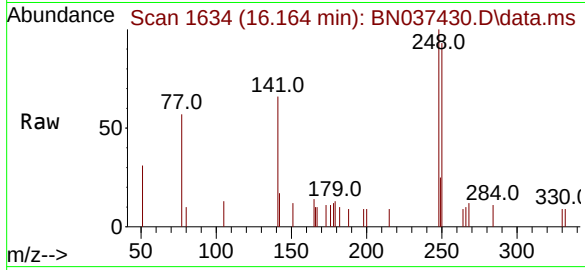




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.164 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

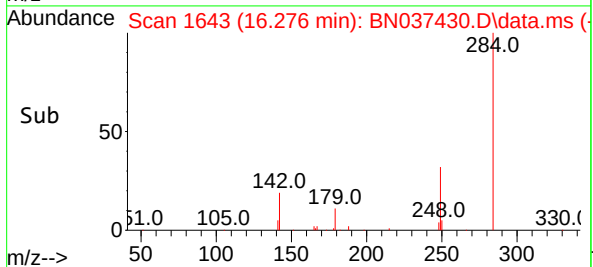
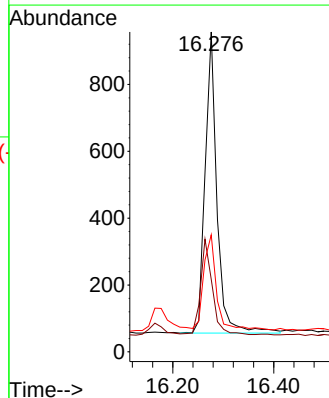
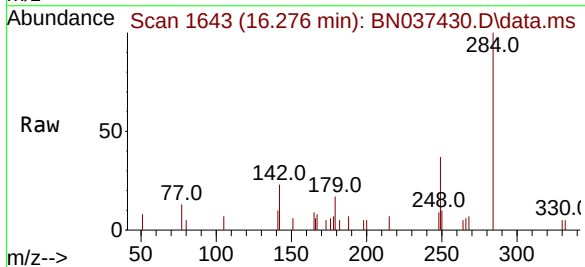
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

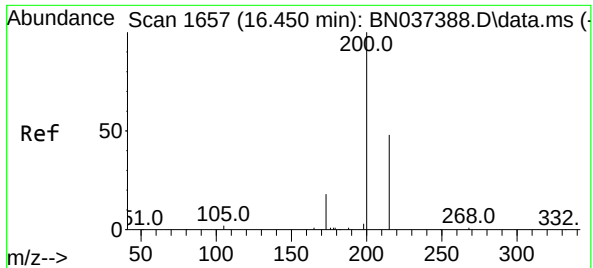
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.7	77.0	115.4
141	65.8	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion	Ratio	Lower	Upper
284	100		
142	31.2	27.2	40.8
249	34.4	26.7	40.1

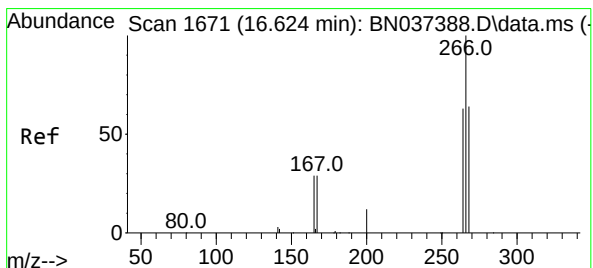
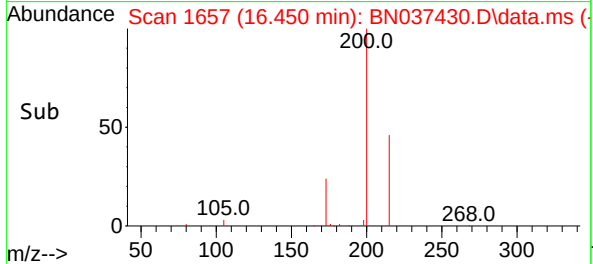
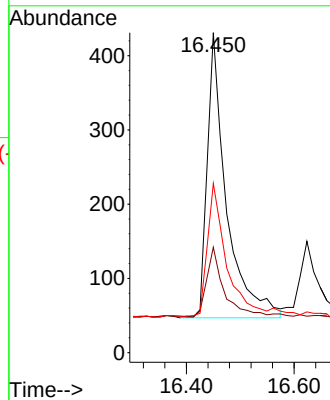
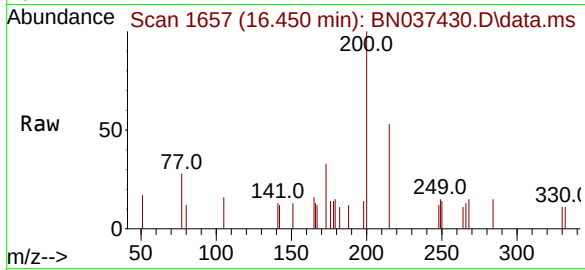




#23
Atrazine
Concen: 0.353 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

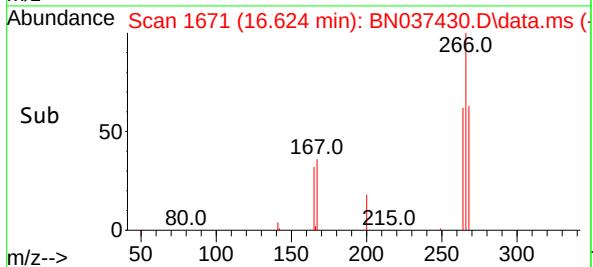
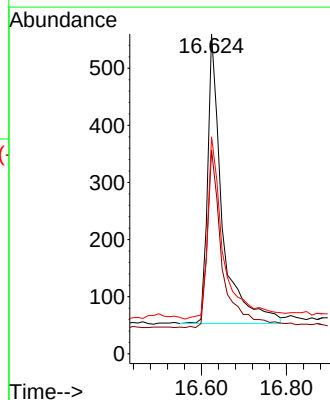
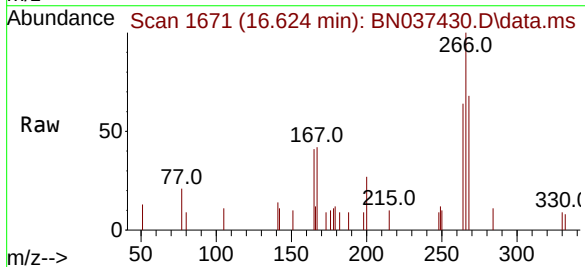
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

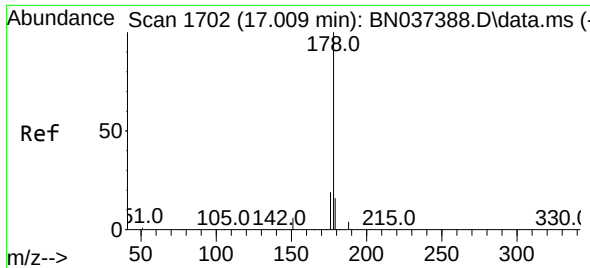
Tgt Ion:200 Resp: 944
Ion Ratio Lower Upper
200 100
173 32.9 19.0 28.6#
215 52.9 41.3 61.9



#24
Pentachlorophenol
Concen: 0.616 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:266 Resp: 1209
Ion Ratio Lower Upper
266 100
264 63.0 49.2 73.8
268 68.5 54.2 81.4

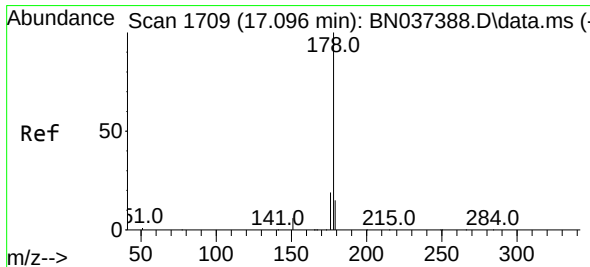
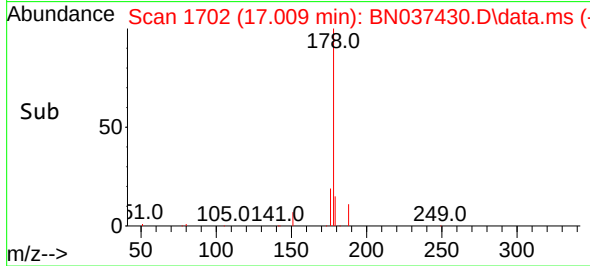
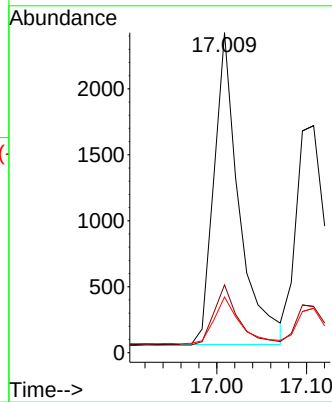
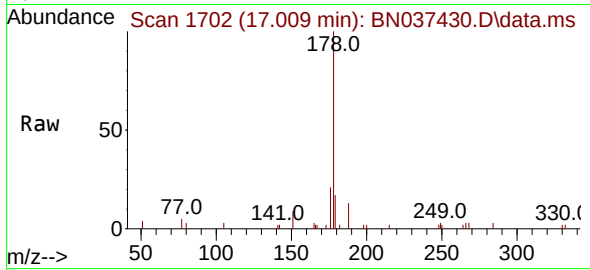




#25
Phenanthrene
Concen: 0.341 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

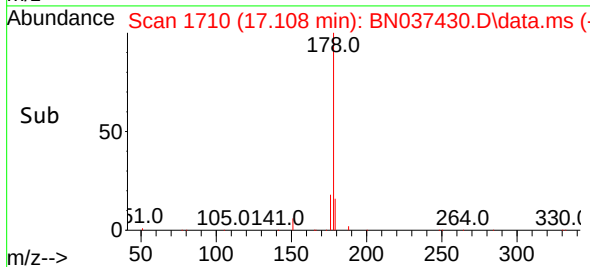
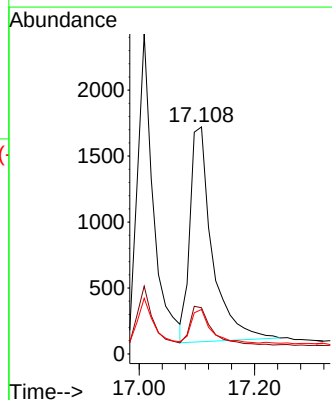
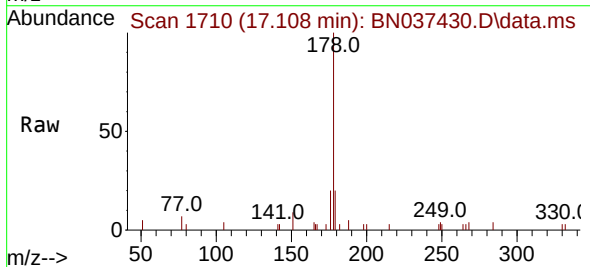
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

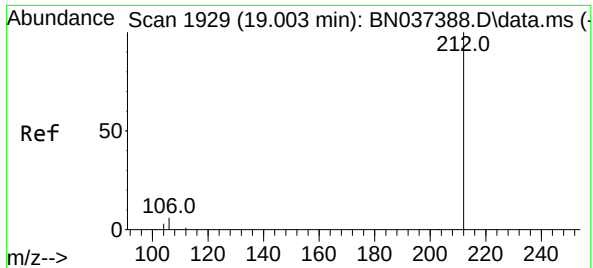
Tgt Ion:178	Resp:	4601
Ion Ratio	Lower	Upper
178	100	
176	19.6	15.6 23.4
179	15.6	12.8 19.2



#26
Anthracene
Concen: 0.352 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:178	Resp:	4364
Ion Ratio	Lower	Upper
178	100	
176	17.7	14.9 22.3
179	14.5	12.4 18.6

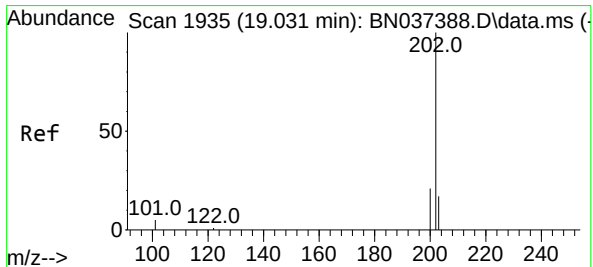
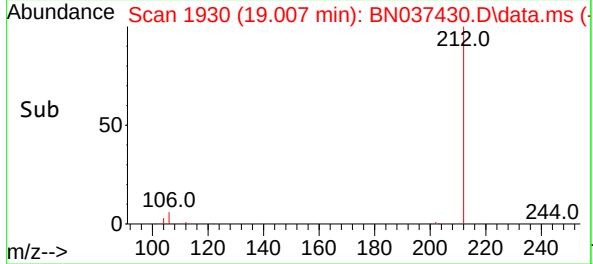
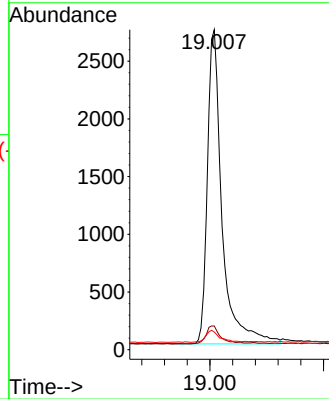
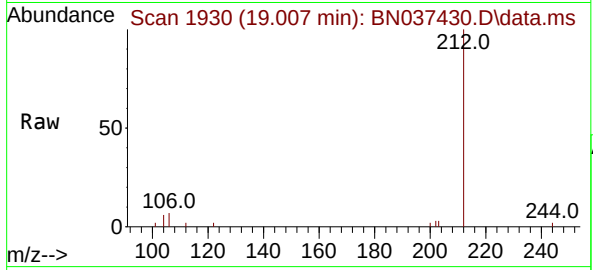




#27
Fluoranthene-d10
Concen: 0.356 ng
RT: 19.007 min Scan# 1930
Delta R.T. 0.005 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

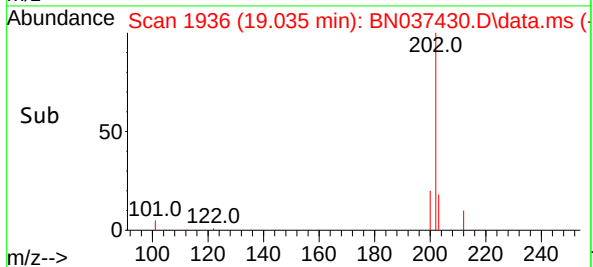
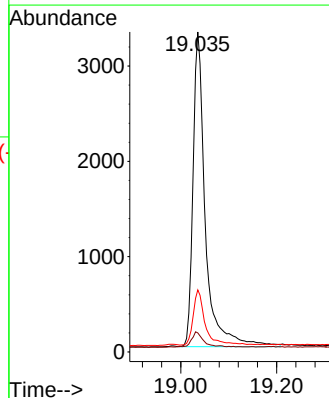
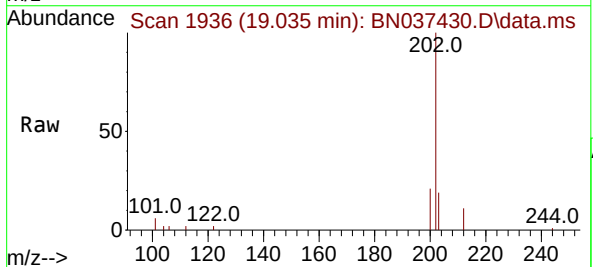
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

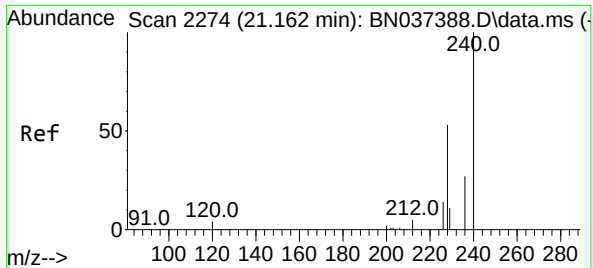
Tgt Ion:	212	Resp:	4887
Ion Ratio	Lower	Upper	
212	100		
106	5.6	4.5	6.7
104	3.6	2.7	4.1



#28
Fluoranthene
Concen: 0.342 ng
RT: 19.035 min Scan# 1936
Delta R.T. 0.005 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:	202	Resp:	5898
Ion Ratio	Lower	Upper	
202	100		
101	4.5	3.8	5.6
203	17.2	13.5	20.3

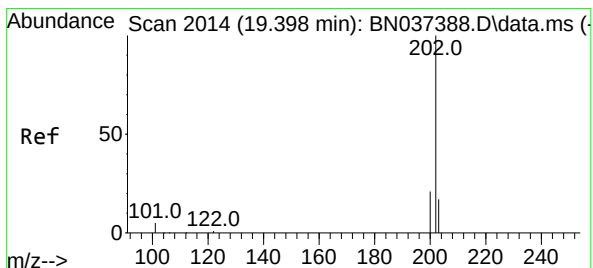
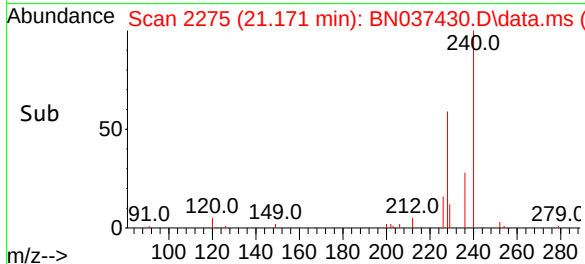
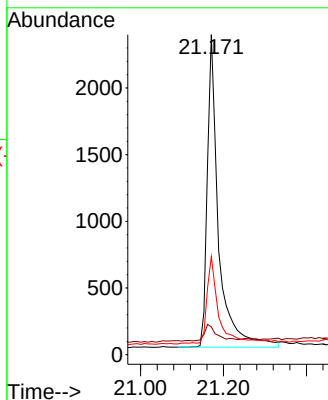
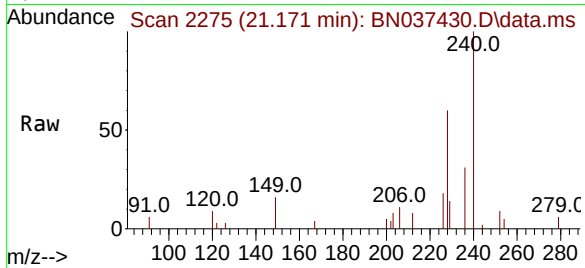




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. 0.009 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

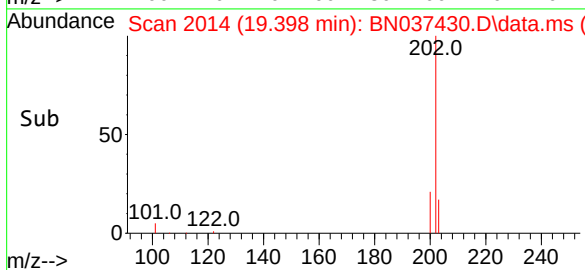
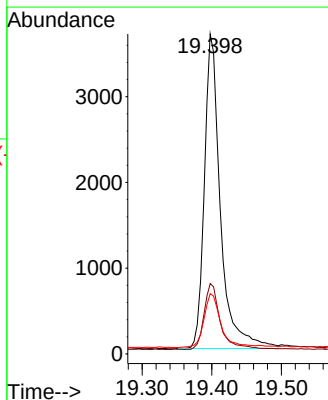
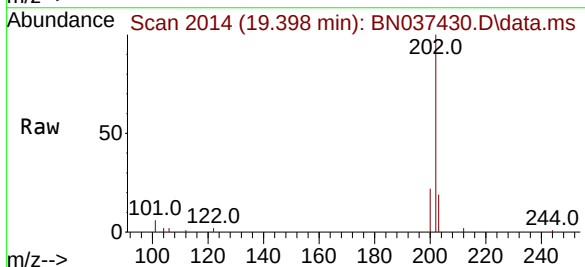
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

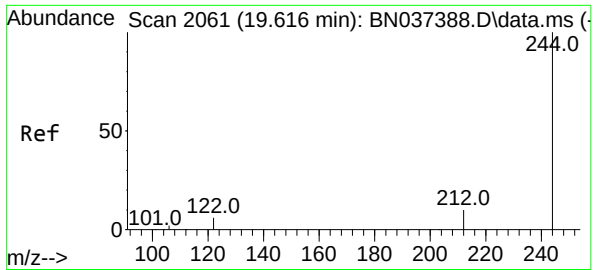
Tgt Ion:240 Resp: 4441
Ion Ratio Lower Upper
240 100
120 8.7 5.3 7.9#
236 30.7 22.7 34.1



#30
Pyrene
Concen: 0.350 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:202 Resp: 5874
Ion Ratio Lower Upper
202 100
200 21.2 16.5 24.7
203 18.5 14.2 21.2

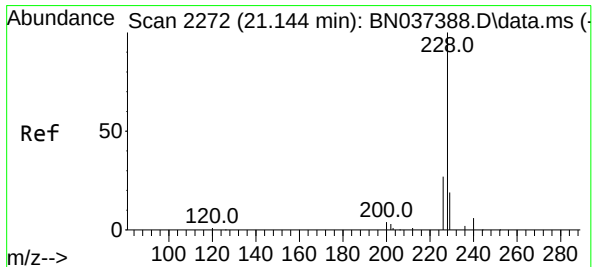
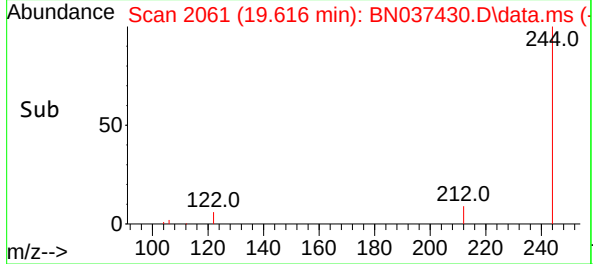
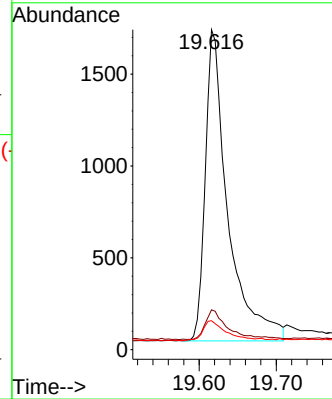
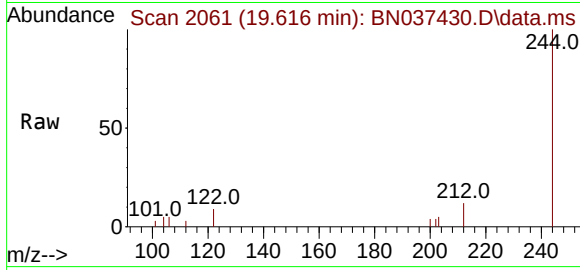




#31
Terphenyl-d14
Concen: 0.364 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

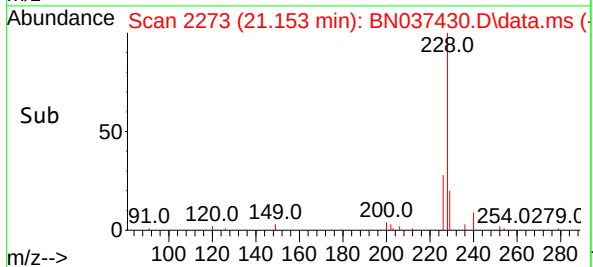
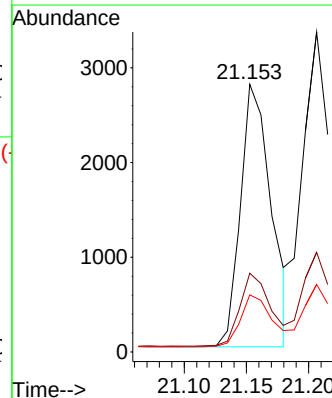
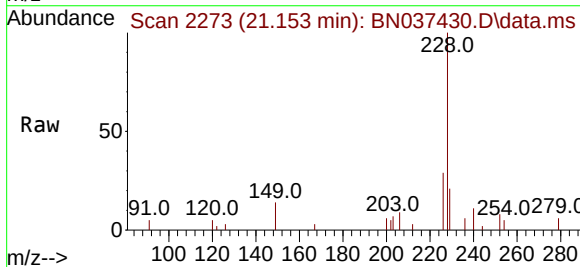
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

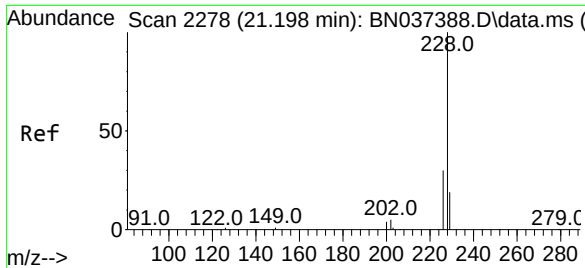
Tgt Ion:	244	Resp:	3443
Ion Ratio	Lower	Upper	
244	100		
212	12.5	9.1	13.7
122	9.1	6.3	9.5



#32
Benzo(a)anthracene
Concen: 0.341 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:	228	Resp:	4757
Ion Ratio	Lower	Upper	
228	100		
226	29.4	22.6	34.0
229	21.3	16.2	24.2





#33

Chrysene

Concen: 0.389 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037430.D

Acq: 02 Jul 2025 17:27

Instrument :

BNA_N

ClientSampleId :

PB168695BSD

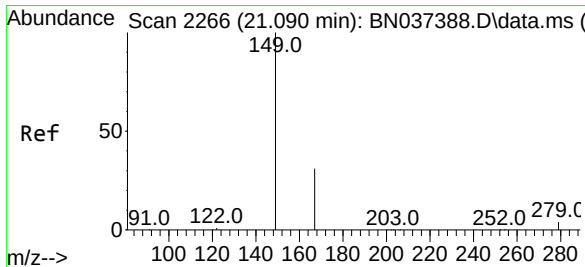
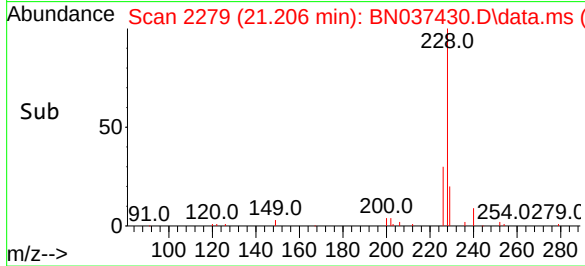
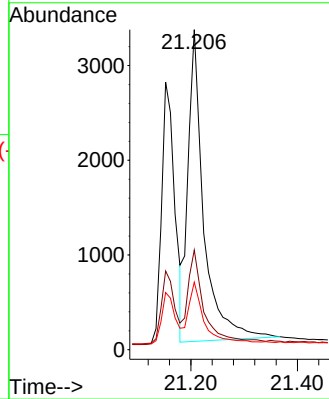
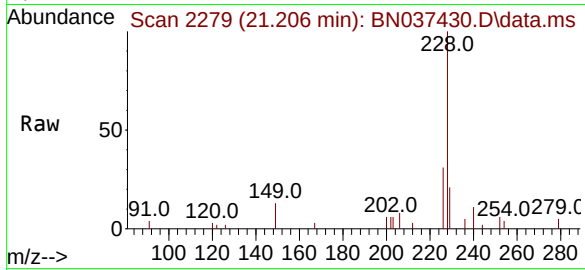
Tgt Ion:228 Resp: 6724

Ion Ratio Lower Upper

228 100

226 31.2 24.5 36.7

229 21.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.396 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.009 min

Lab File: BN037430.D

Acq: 02 Jul 2025 17:27

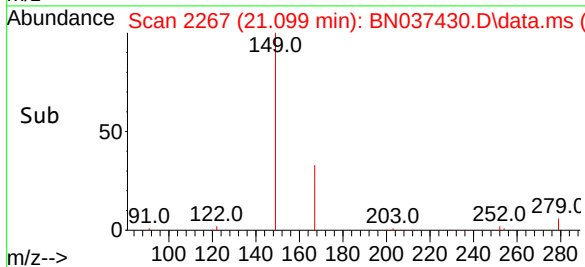
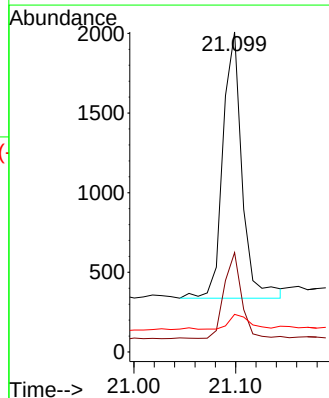
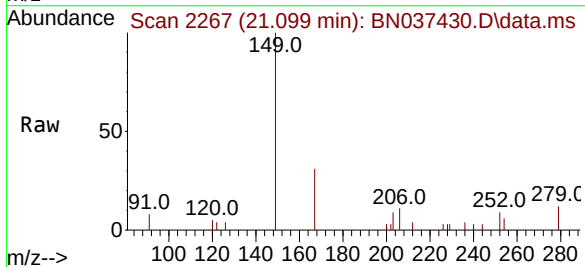
Tgt Ion:149 Resp: 2188

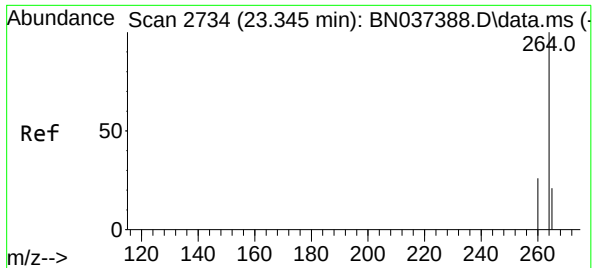
Ion Ratio Lower Upper

149 100

167 29.3 24.8 37.2

279 5.9 5.0 7.6

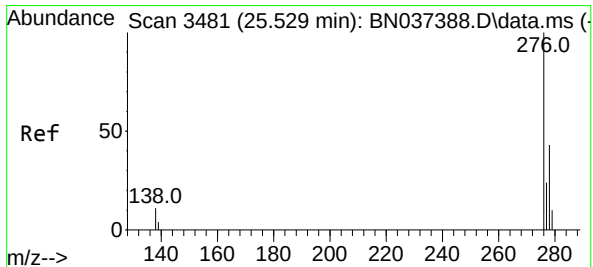
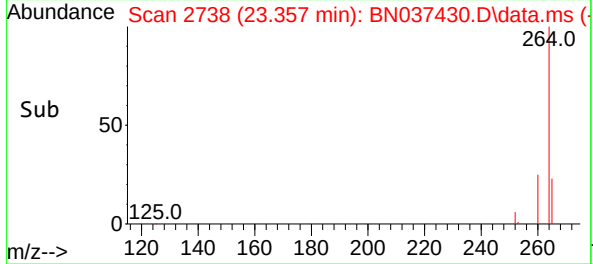
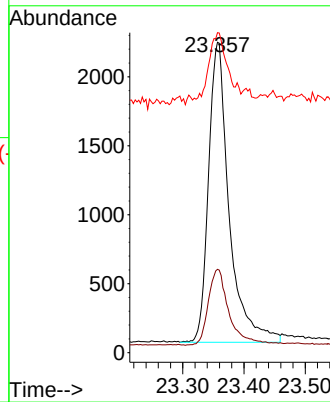
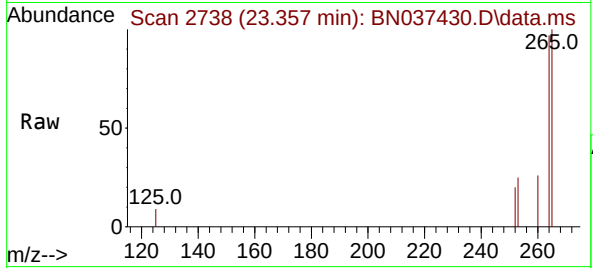




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 21
Delta R.T. 0.012 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

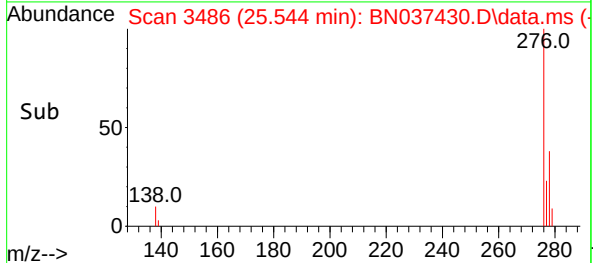
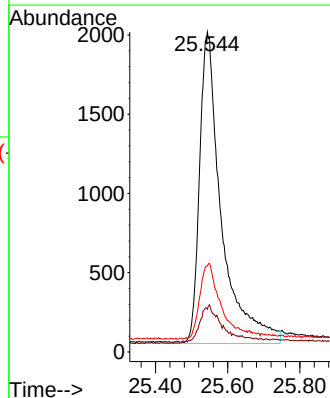
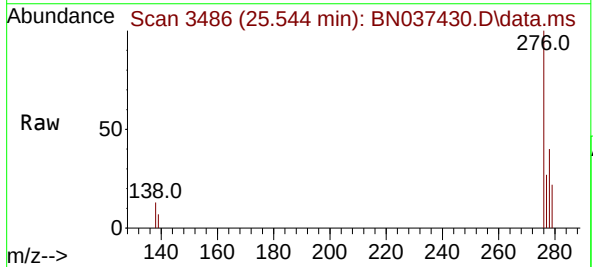
Instrument :
BNA_N
ClientSampleId :
PB168695BSD

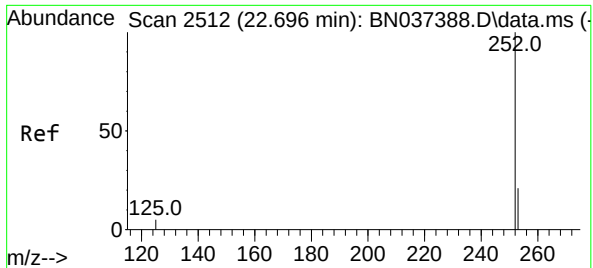
Tgt Ion:264 Resp: 5091
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.0
265 103.1 56.2 84.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.544 min Scan# 3486
Delta R.T. 0.015 min
Lab File: BN037430.D
Acq: 02 Jul 2025 17:27

Tgt Ion:276 Resp: 8291
Ion Ratio Lower Upper
276 100
138 10.9 8.5 12.7
277 21.5 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.322 ng

RT: 22.705 min Scan# 2515

Delta R.T. 0.009 min

Lab File: BN037430.D

Acq: 02 Jul 2025 17:27

Instrument :

BNA_N

ClientSampleId :

PB168695BSD

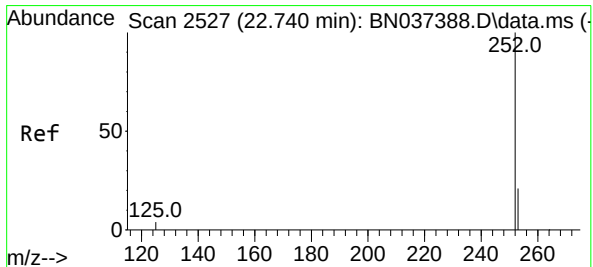
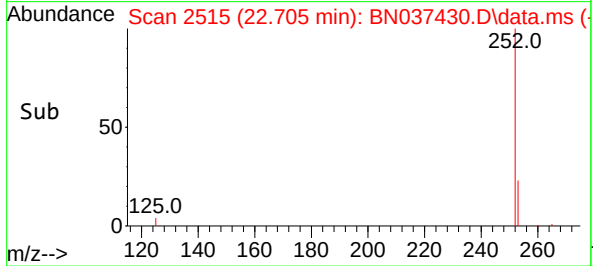
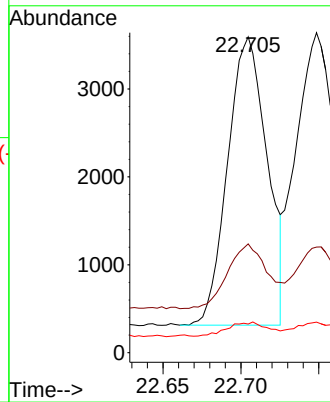
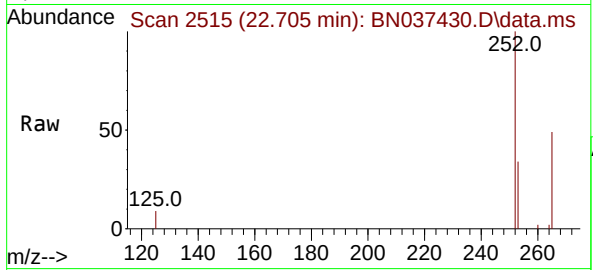
Tgt Ion:252 Resp: 5779

Ion Ratio Lower Upper

252 100

253 34.5 22.8 34.2#

125 9.1 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.366 ng

RT: 22.749 min Scan# 2530

Delta R.T. 0.009 min

Lab File: BN037430.D

Acq: 02 Jul 2025 17:27

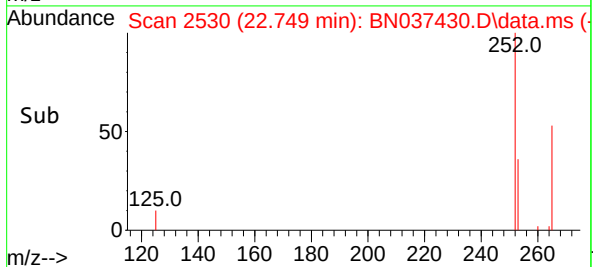
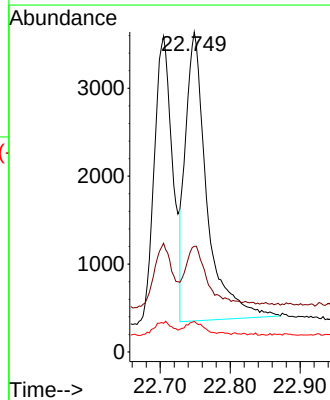
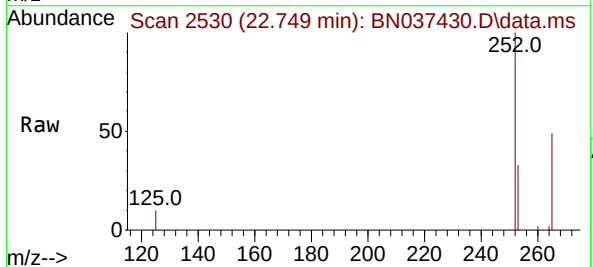
Tgt Ion:252 Resp: 7025

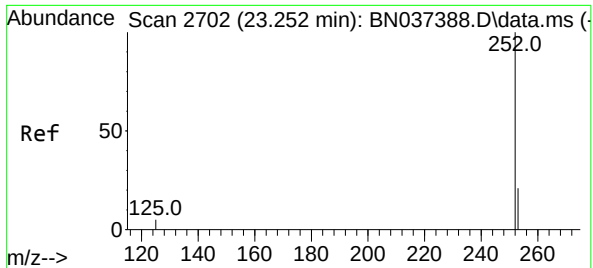
Ion Ratio Lower Upper

252 100

253 33.0 23.2 34.8

125 9.6 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 0.381 ng

RT: 23.263 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN037430.D

Acq: 02 Jul 2025 17:27

Instrument :

BNA_N

ClientSampleId :

PB168695BSD

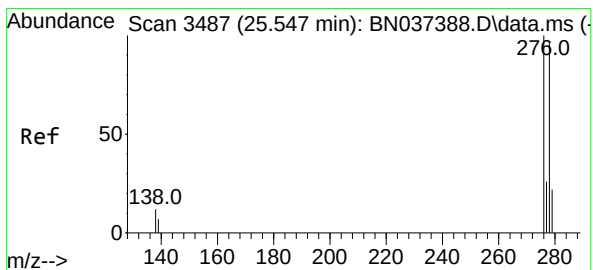
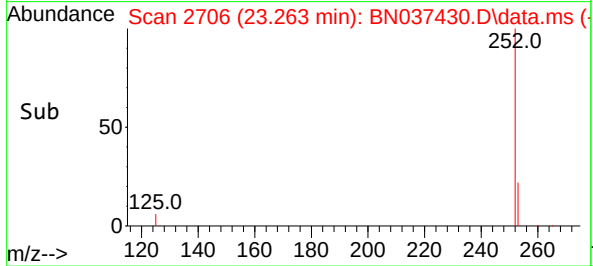
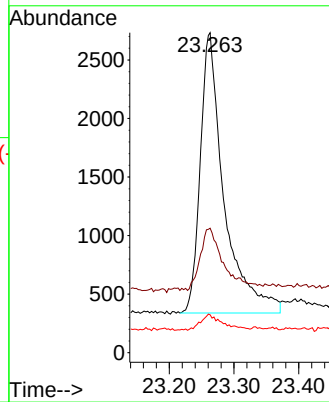
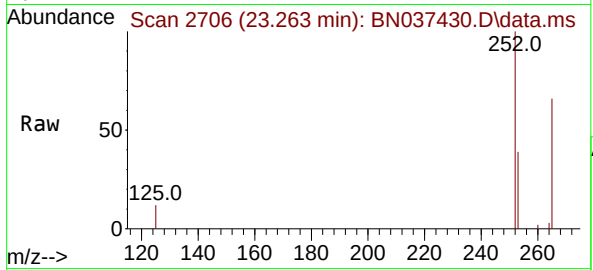
Tgt Ion:252 Resp: 6090

Ion Ratio Lower Upper

252 100

253 38.9 25.6 38.4#

125 11.9 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.358 ng

RT: 25.564 min Scan# 3493

Delta R.T. 0.017 min

Lab File: BN037430.D

Acq: 02 Jul 2025 17:27

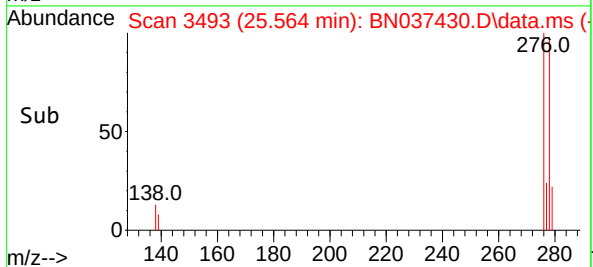
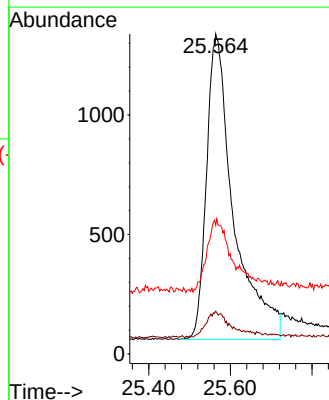
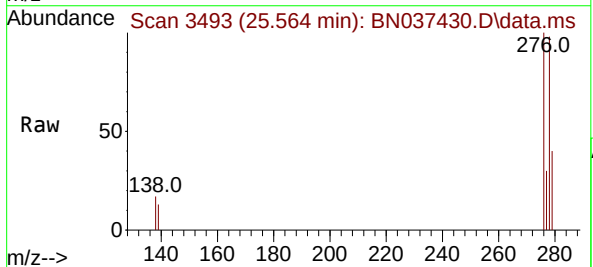
Tgt Ion:278 Resp: 5898

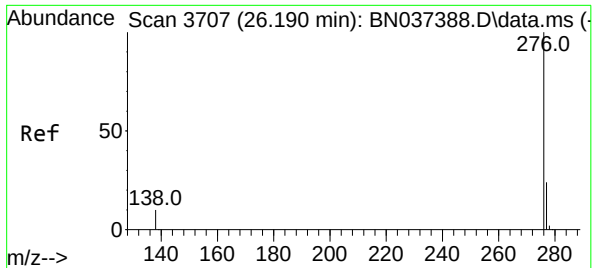
Ion Ratio Lower Upper

278 100

139 13.4 8.5 12.7#

279 40.3 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.204 min Scan# 31

Delta R.T. 0.015 min

Lab File: BN037430.D

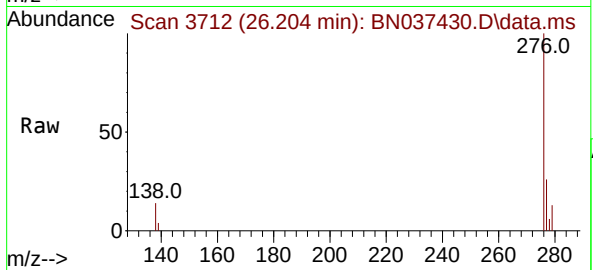
Acq: 02 Jul 2025 17:27

Instrument :

BNA_N

ClientSampleId :

PB168695BSD



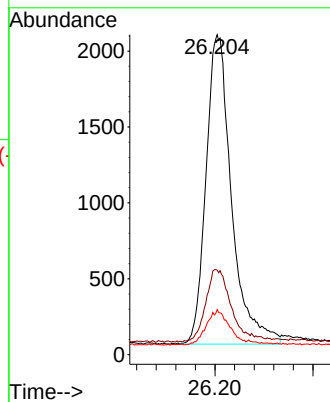
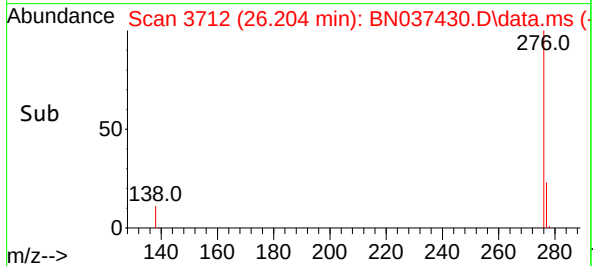
Tgt Ion:276 Resp: 7365

Ion Ratio Lower Upper

276 100

277 26.5 21.0 31.4

138 14.1 9.6 14.4



Manual Integration Report

Sequence:

BN062625

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN037386.D	Nitrobenzene-d5	Rahul	6/27/2025 12:01:52 PM	Jagrut	6/27/2025 12:02:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN070225	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN037431.D	Benzo(b)fluoranthene	Rahul	7/3/2025 8:53:51 AM	Jagrut	7/3/2025 3:47:10 PM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
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	BN037385.D	26 Jun 2025 10:01	RC/JU	Ok
2	SSTDIC0.1	BN037386.D	26 Jun 2025 10:41	RC/JU	Ok,M
3	SSTDIC0.2	BN037387.D	26 Jun 2025 11:17	RC/JU	Ok
4	SSTDIC0.4	BN037388.D	26 Jun 2025 11:53	RC/JU	Ok
5	SSTDIC0.8	BN037389.D	26 Jun 2025 12:29	RC/JU	Ok
6	SSTDIC1.6	BN037390.D	26 Jun 2025 13:05	RC/JU	Ok
7	SSTDIC3.2	BN037391.D	26 Jun 2025 13:41	RC/JU	Ok
8	SSTDIC5.0	BN037392.D	26 Jun 2025 14:17	RC/JU	Ok
9	SSTDICV0.4	BN037393.D	26 Jun 2025 14:54	RC/JU	Ok
10	PB168563BL	BN037394.D	26 Jun 2025 15:30	RC/JU	Not Ok
11	Q2345-01	BN037395.D	26 Jun 2025 16:06	RC/JU	Ok,M
12	Q2345-13	BN037396.D	26 Jun 2025 16:42	RC/JU	Dilution
13	Q2345-14	BN037397.D	26 Jun 2025 17:18	RC/JU	Ok
14	Q2345-15	BN037398.D	26 Jun 2025 17:54	RC/JU	Ok
15	Q2345-16	BN037399.D	26 Jun 2025 18:30	RC/JU	Ok
16	Q2361-01	BN037400.D	26 Jun 2025 19:06	RC/JU	Ok
17	SSTDCCC0.4	BN037401.D	26 Jun 2025 19:42	RC/JU	Ok
18	DFTPP	BN037402.D	26 Jun 2025 20:19	RC/JU	Ok
19	SSTDCCC0.4	BN037403.D	26 Jun 2025 21:38	RC/JU	Ok
20	PB167430BL	BN037404.D	26 Jun 2025 22:14	RC/JU	Ok
21	Q2372-01	BN037405.D	26 Jun 2025 22:50	RC/JU	ReRun

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2373-01	BN037406.D	26 Jun 2025 23:27	RC/JU	Not Ok
23	Q2373-02	BN037407.D	27 Jun 2025 00:03	RC/JU	Ok
24	Q2373-03	BN037408.D	27 Jun 2025 00:40	RC/JU	Ok
25	Q2374-01	BN037409.D	27 Jun 2025 01:16	RC/JU	Ok
26	Q2374-02	BN037410.D	27 Jun 2025 01:52	RC/JU	Ok
27	Q2374-03	BN037411.D	27 Jun 2025 02:29	RC/JU	Ok
28	Q2374-04	BN037412.D	27 Jun 2025 03:05	RC/JU	Ok
29	Q2375-01	BN037413.D	27 Jun 2025 03:41	RC/JU	Ok
30	Q2375-02	BN037414.D	27 Jun 2025 04:18	RC/JU	Ok
31	SSTDCCC0.4	BN037415.D	27 Jun 2025 04:54	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN070225

Review By	Rahul	Review On	7/3/2025 8:54:12 AM
Supervise By	Jagrut	Supervise On	7/3/2025 3:47:18 PM
SubDirectory	BN070225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
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	BN037424.D	02 Jul 2025 13:22	RC/JU	Ok
2	SSTDCCC0.4	BN037425.D	02 Jul 2025 14:04	RC/JU	Ok
3	PB168695BL	BN037426.D	02 Jul 2025 15:01	RC/JU	Ok
4	Q2439-01	BN037427.D	02 Jul 2025 15:37	RC/JU	Ok
5	Q2439-02	BN037428.D	02 Jul 2025 16:14	RC/JU	Ok
6	PB168695BS	BN037429.D	02 Jul 2025 16:50	RC/JU	Ok
7	PB168695BSD	BN037430.D	02 Jul 2025 17:27	RC/JU	Ok
8	SSTDCCC0.4	BN037431.D	02 Jul 2025 18:03	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_HP Processing Method bn062625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
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	BN037385.D	26 Jun 2025 10:01		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037386.D	26 Jun 2025 10:41		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN037387.D	26 Jun 2025 11:17		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037388.D	26 Jun 2025 11:53		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037389.D	26 Jun 2025 12:29		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037390.D	26 Jun 2025 13:05		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037391.D	26 Jun 2025 13:41		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037392.D	26 Jun 2025 14:17		RC/JU	Ok
9	SSTDICV0.4	ICVBN062625	BN037393.D	26 Jun 2025 14:54		RC/JU	Ok
10	PB168563BL	PB168563BL	BN037394.D	26 Jun 2025 15:30	Not Used	RC/JU	Not Ok
11	Q2345-01	EB02-20250616	BN037395.D	26 Jun 2025 16:06		RC/JU	Ok,M
12	Q2345-13	TT189D2-20250617	BN037396.D	26 Jun 2025 16:42	Need 2X dilutiion	RC/JU	Dilution
13	Q2345-14	TT150S1-20250617	BN037397.D	26 Jun 2025 17:18		RC/JU	Ok
14	Q2345-15	RW8-MW01D1-20250617	BN037398.D	26 Jun 2025 17:54		RC/JU	Ok
15	Q2345-16	TT192D2-20250617	BN037399.D	26 Jun 2025 18:30		RC/JU	Ok
16	Q2361-01	TT205S1-20250617	BN037400.D	26 Jun 2025 19:06		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN037401.D	26 Jun 2025 19:42		RC/JU	Ok
18	DFTPP	DFTPP	BN037402.D	26 Jun 2025 20:19		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	SSTDCCC0.4	SSTDCCC0.4	BN037403.D	26 Jun 2025 21:38		RC/JU	Ok
20	PB167430BL	PB167430BL	BN037404.D	26 Jun 2025 22:14	Analyzed for contamination check	RC/JU	Ok
21	Q2372-01	GAV1W	BN037405.D	26 Jun 2025 22:50	Internal standard fail	RC/JU	ReRun
22	Q2373-01	RW5-SP100-20250619	BN037406.D	26 Jun 2025 23:27	Internal standard fail & Need 2X Dilution	RC/JU	Not Ok
23	Q2373-02	RW5-SP201-20250619	BN037407.D	27 Jun 2025 00:03		RC/JU	Ok
24	Q2373-03	RW5-SP303-20250619	BN037408.D	27 Jun 2025 00:40		RC/JU	Ok
25	Q2374-01	RW7-SP100-20250619	BN037409.D	27 Jun 2025 01:16		RC/JU	Ok
26	Q2374-02	RW7-SP201-20250619	BN037410.D	27 Jun 2025 01:52		RC/JU	Ok
27	Q2374-03	RW7-SP302-20250619	BN037411.D	27 Jun 2025 02:29		RC/JU	Ok
28	Q2374-04	RW7-SP303-20250619	BN037412.D	27 Jun 2025 03:05		RC/JU	Ok
29	Q2375-01	RW8-SP100-20250619	BN037413.D	27 Jun 2025 03:41		RC/JU	Ok
30	Q2375-02	RW8-SP303-20250619	BN037414.D	27 Jun 2025 04:18		RC/JU	Ok
31	SSTDCCC0.4	SSTDCCC0.4EC	BN037415.D	27 Jun 2025 04:54		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN070225

Review By	Rahul	Review On	7/3/2025 8:54:12 AM
Supervise By	Jagrut	Supervise On	7/3/2025 3:47:18 PM
SubDirectory	BN070225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
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	BN037424.D	02 Jul 2025 13:22		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037425.D	02 Jul 2025 14:04		RC/JU	Ok
3	PB168695BL	PB168695BL	BN037426.D	02 Jul 2025 15:01		RC/JU	Ok
4	Q2439-01	RW8-SP100-20250626	BN037427.D	02 Jul 2025 15:37		RC/JU	Ok
5	Q2439-02	RW8-SP303-20250626	BN037428.D	02 Jul 2025 16:14		RC/JU	Ok
6	PB168695BS	PB168695BS	BN037429.D	02 Jul 2025 16:50		RC/JU	Ok
7	PB168695BSD	PB168695BSD	BN037430.D	02 Jul 2025 17:27		RC/JU	Ok
8	SSTDCCC0.4	SSTDCCC0.4EC	BN037431.D	02 Jul 2025 18:03		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Extraction Start Date : 07/02/2025

Matrix : Water

Extraction Start Time : 09:05

Weight By: N/A

Extraction By: RS

Extraction End Date : 07/02/2025

Balance check: N/A

Filter By: RJ

Extraction End Time : 14:05

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3880

Hood ID: 4,6,7

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	SP6831
LOD/LOQ	1.0ML	N/A 0.1 PPM	SP6821
LOD/LOQ	1.0ML	N/A 0.2 PPM	SP6822
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3943
Baked Na2SO4	N/A	EP2624
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
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
7/2/25	RS (Ext Lab)	RS/SVOC
14:10	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 07/02/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168695BL	SBLK695	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB168695BS	SLCS695	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB168695BS D	SLCSD695	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q2126-07	LOD-MDL-WATER-01-QT2 -2025 0.1 PPM	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			4
Q2126-08	LOQ-WATER-02-QT2-202 5 0.1 PPM	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			5
Q2439-01	RW8-SP100-20250626	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	B		6
Q2439-02	RW8-SP303-20250626	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	D		7
Q2126-07	LOD-WATER-01 0.2 PPM		1000	6			1			8
Q2126-08	LOQ-WATER-02 0.2 PPM		1000	6			1			9

* Extracts relinquished on the same date as received.

RS
7/2

168695 W.
9-05

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2439

WorkList ID : 190506

Department : Extraction

Date : 07-02-2025 08:59:11

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	Solid	SVOC-SIMGroup1	Cool 4 deg C	ALLI03	QA OI	05/23/2025	8270-Modified
Q2126-02	LOQ-SOIL-02-QT2-2025	Solid	SVOC-SIMGroup1	Cool 4 deg C	ALLI03	QA OI	05/23/2025	8270-Modified
Q2126-07	LOD-MDL-WATER-01-QT2-202	Water	SVOC-SIMGroup1	Cool 4 deg C	ALLI03	QA OI	05/23/2025	8270-Modified
Q2126-08	LOQ-WATER-02-QT2-2025	Water	SVOC-SIMGroup1	Cool 4 deg C	ALLI03	QA OI	05/23/2025	8270-Modified
Q2439-01	RW8-SP100-20250626	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A33	06/26/2025	8270-Modified
Q2439-02	RW8-SP303-20250626	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A33	06/26/2025	8270-Modified

Date/Time 7/2/25 8:59
Raw Sample Received by: RS (Ext-26)
Raw Sample Relinquished by: CP

Q2439-SVOC-SIMGroup1

Date/Time 7/2/25 9:30
Raw Sample Received by: CP
Raw Sample Relinquished by: RS (Ext-26)
360 of 482

Prep Standard - Chemical Standard Summary

Order ID : Q2439
Test : SVOC-SIMGroup1
Prepbatch ID : PB168695,
Sequence ID/Qc Batch ID: BN070225,

Standard ID :
EP2609,EP2610,EP2624,SP6740,SP6756,SP6757,SP6767,SP6768,SP6815,SP6820,SP6821,SP6822,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3874,E3902,E3904,E3926,E3939,E3940,E3942,E3943,M6157,S10105,S11496,S11650,S11788,S11806,S11828,S11832,S12115,S12195,S12216,S12273,S12486,S12498,S12533,S12545,S12577,S12651,S12670,S12974,S12983,S13058,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

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

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	EP2624	06/26/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 06/26/2025

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 DFTPP 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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE 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								

<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								

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>
1366	LOQ & LOD 20 PPM	SP6815	06/12/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								07/08/2025

FROM 0.20000ml of S11806 + 0.40000ml of S12498 + 0.40000ml of S12545 + 0.40000ml of S12983 + 18.60000ml of E3939 = Final
Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1374	LOQ & LOD 1 PPM	SP6820	06/12/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								07/08/2025

FROM 23.75000ml of E3939 + 1.25000ml of SP6815 = 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>
2151	LOQ & LOD 0.1 PPM	SP6821	06/12/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								07/08/2025

FROM 9.00000ml of E3939 + 1.00000ml of SP6820 = Final Quantity: 10.000 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>
1376	LOQ & LOD 0.2 PPM	SP6822	06/12/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								07/08/2025

FROM 8.00000ml of E3939 + 2.00000ml of SP6820 = Final Quantity: 10.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								06/18/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = 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 /	12/27/2024 / RUPESH	E3904

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

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)	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

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	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

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	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

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	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

CHEMICAL RECEIPT LOG BOOK

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

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	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	12/04/2025	06/04/2025 / Jagrut	11/21/2023 / rahul	S11806

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	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	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	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

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	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12498

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	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	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12545

[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 #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

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 #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12983

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)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

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.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
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.

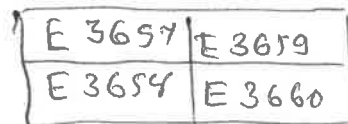
This document has been electronically produced and is valid without a signature.

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.



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	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 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

 avantor

Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

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

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.: 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 HeptachlorEpoxide) 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

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

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.: 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_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 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

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 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 HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

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

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



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** 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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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:

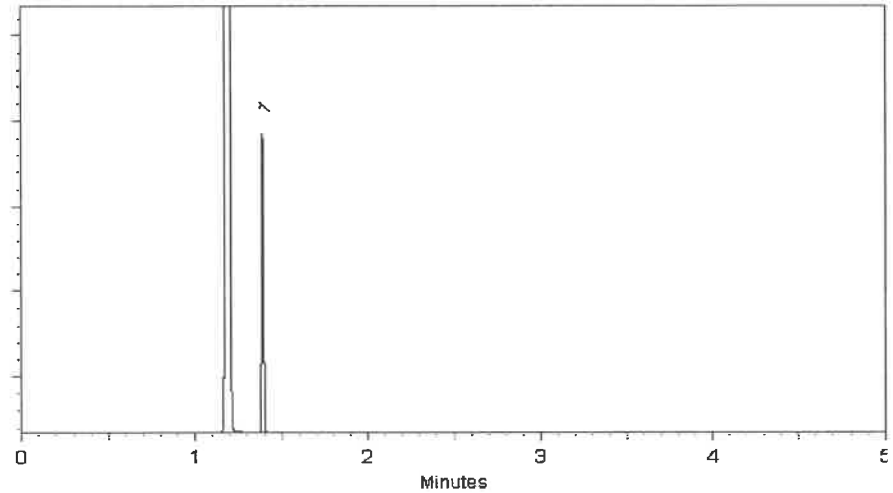
FID

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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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.:** A0200655
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11795
↓
S11808 } 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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:

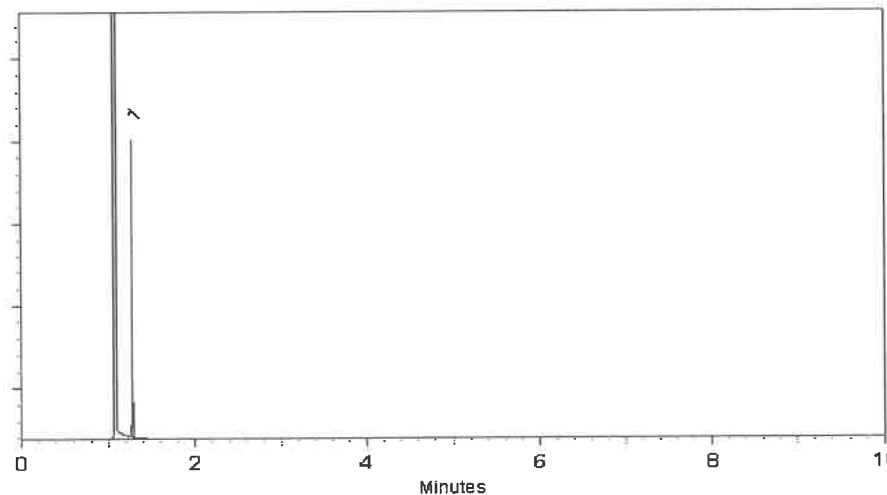
FID

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

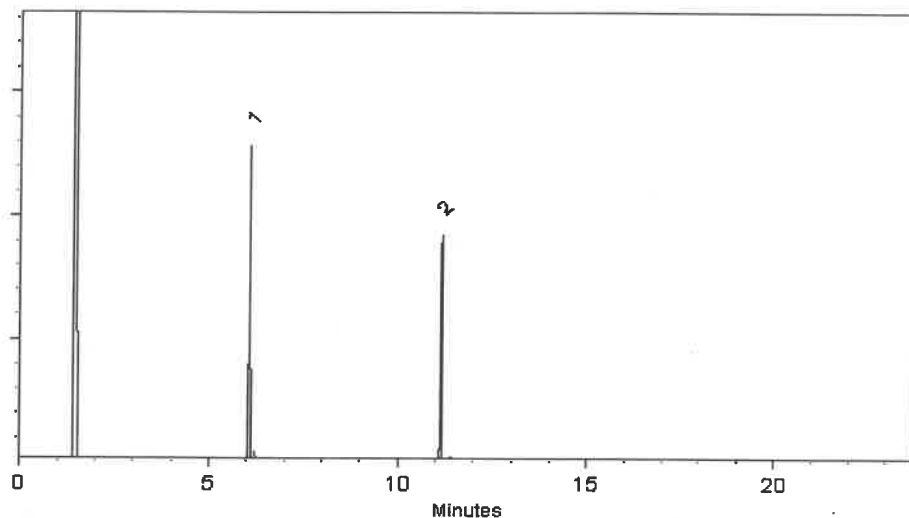
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

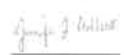


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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. : 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:

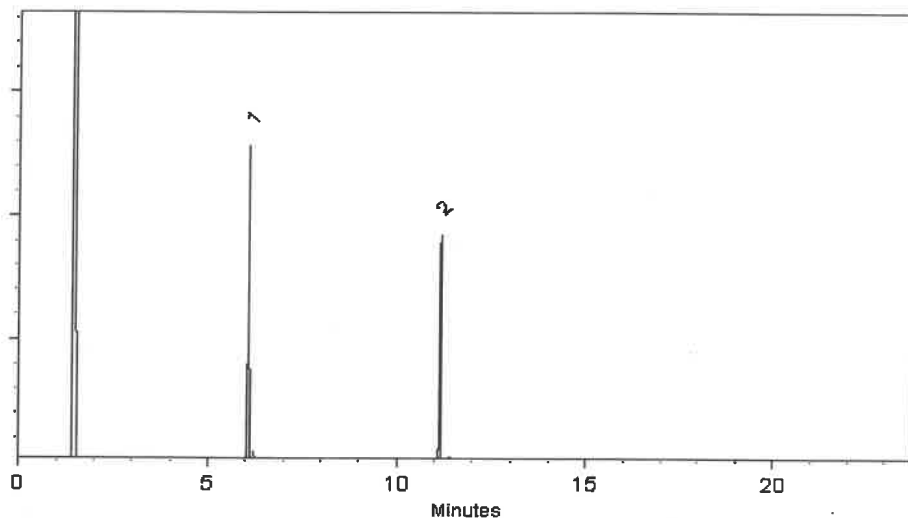
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

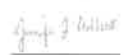


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Dakota Parson - Operations Technician I

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.
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Date Received: _____

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<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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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:

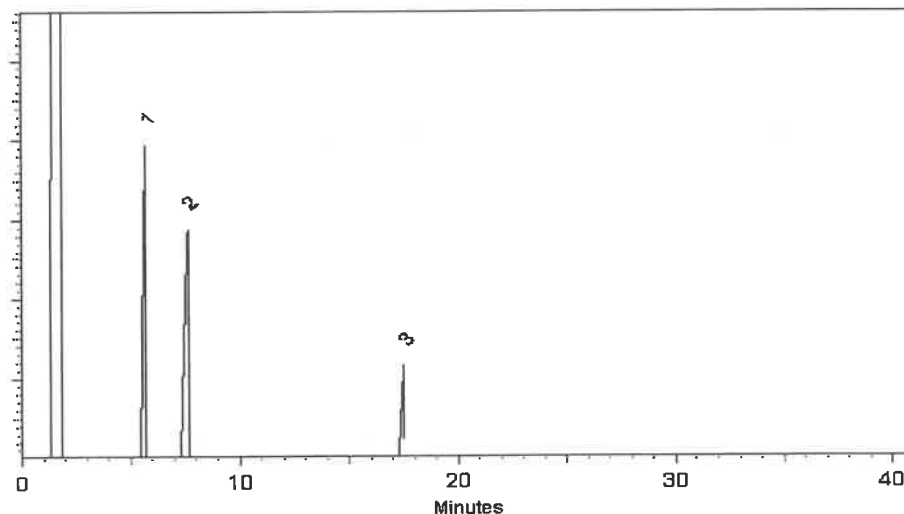
FID

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

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

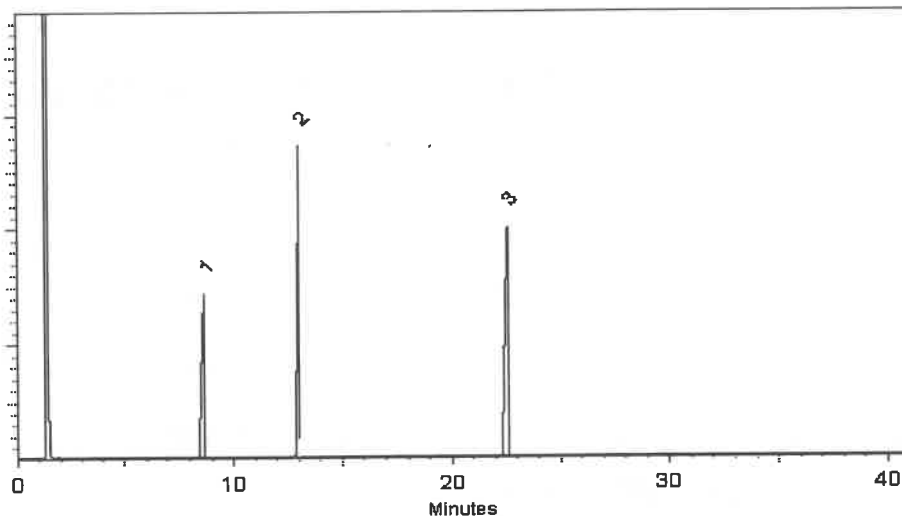
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

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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

Kerry E Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 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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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. : 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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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

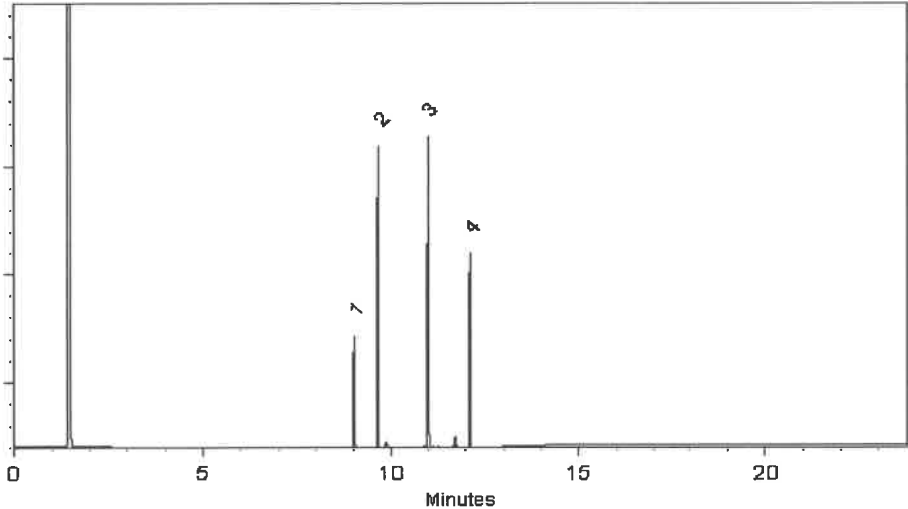
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

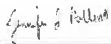
Inj. Vol
1µl



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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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. : 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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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
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** 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.



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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.



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	≤ -10 °C	Methylene Chloride	1/2/2030	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	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057 } AC
↓
513061 } 1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



SHIPPING DOCUMENTS

- 1
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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: Q2439 COC Number:																					
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																					
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: PO#																					
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: RW8		ADDRESS:																					
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:																					
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:																					
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																					
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS.		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		1,4-Dioxane SW846 8270 <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10%;">SIM</td> <td style="width: 10%;">Iron, Total</td> <td style="width: 10%;">TSS</td> <td style="width: 10%;">TDS</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> </tr> </table>		SIM	Iron, Total	TSS	TDS							1	2	3	4	5	6	7	8	9	
SIM	Iron, Total	TSS	TDS																						
1	2	3	4	5	6	7	8	9																	
				PRESERVATIVES																					
				COMMENTS																					
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	# of Bottles																				
			COMP CRAB	DATE TIME																					
1.	RW8-SP100-20250626	GW		6/26/25 13:05	2																				
2.	RW8-SP303-20250626	GW		6/26/25 13:13	4																				
3.																									
4.																									
5.																									
6.																									
7.																									
8.																									
9.																									
10.																									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	CONDITIONS OF BOTTLES OR COOLERS AT RECEIPT:	☐ Compliant ☐ Non Compliant ☐ Cooler Temp _____ ☐ MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____	
1.	6/26/25/14		Comments:		
RELINQUISHED BY	DATE/TIME	RECEIVED BY			
2.					
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY			
3.					

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037386.D
 Acq On : 26 Jun 2025 10:41
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 26 16:03:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:02:41 2025
 Response via : Initial Calibration

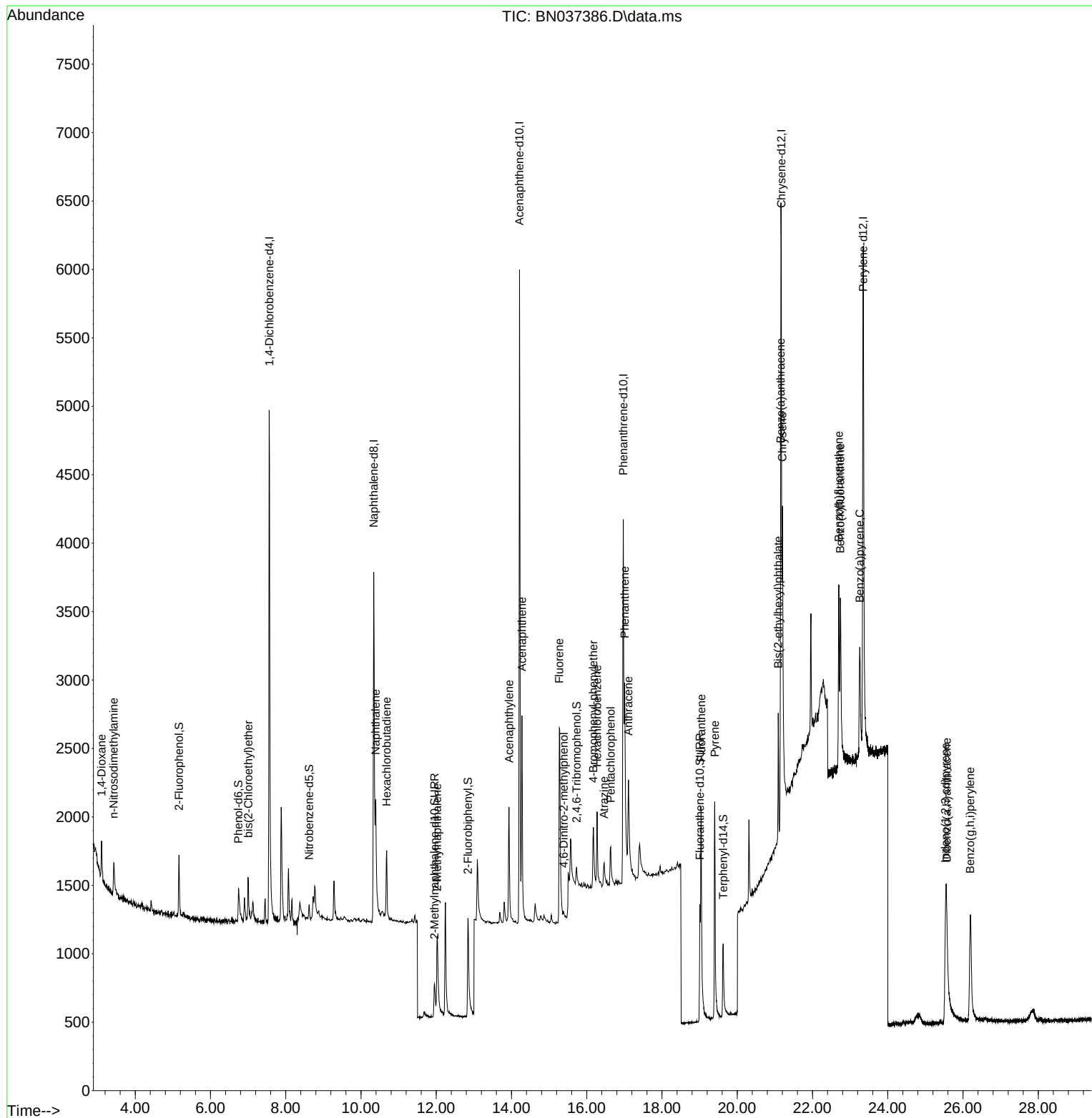
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	2183	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4628	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2945	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5811	0.400	ng	0.01
29) Chrysene-d12	21.171	240	5498	0.400	ng	0.00
35) Perylene-d12	23.348	264	5798	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	421	0.100	ng	0.00
5) Phenol-d6	6.744	99	362	0.083	ng	0.00
8) Nitrobenzene-d5	8.621	82	95	0.026	ng	-0.10
11) 2-Methylnaphthalene-d10	11.955	152	615	0.086	ng	0.02
14) 2,4,6-Tribromophenol	15.730	330	143	0.083	ng	0.01
15) 2-Fluorobiphenyl	12.843	172	1140	0.090	ng	0.01
27) Fluoranthene-d10	19.008	212	1559	0.094	ng	0.00
31) Terphenyl-d14	19.625	244	1099	0.094	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	299	0.144	ng	# 85
3) n-Nitrosodimethylamine	3.429	42	207	0.101	ng	88
6) bis(2-Chloroethyl)ether	7.004	93	313	0.081	ng	# 85
9) Naphthalene	10.394	128	1206	0.101	ng	# 86
10) Hexachlorobutadiene	10.682	225	471	0.100	ng	# 98
12) 2-Methylnaphthalene	12.026	142	735	0.090	ng	96
16) Acenaphthylene	13.935	152	1167	0.096	ng	97
17) Acenaphthene	14.277	154	758	0.095	ng	98
18) Fluorene	15.272	166	1063	0.094	ng	100
20) 4,6-Dinitro-2-methylph...	15.389	198	81	0.054	ng	# 1
21) 4-Bromophenyl-phenylether	16.177	248	383	0.093	ng	# 93
22) Hexachlorobenzene	16.276	284	450	0.102	ng	98
23) Atrazine	16.462	200	291	0.090	ng	# 73
24) Pentachlorophenol	16.636	266	262	0.110	ng	95
25) Phenanthrene	17.009	178	1534	0.094	ng	97
26) Anthracene	17.108	178	1358	0.090	ng	100
28) Fluoranthene	19.040	202	2001	0.096	ng	99
30) Pyrene	19.402	202	2006	0.096	ng	99
32) Benzo(a)anthracene	21.153	228	1579	0.091	ng	92
33) Chrysene	21.198	228	2241	0.105	ng	94
34) Bis(2-ethylhexyl)phtha...	21.090	149	839	0.123	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.535	276	2156	0.088	ng	# 90
37) Benzo(b)fluoranthene	22.699	252	1927	0.094	ng	# 66
38) Benzo(k)fluoranthene	22.740	252	2041	0.093	ng	# 61
39) Benzo(a)pyrene	23.254	252	1755	0.097	ng	# 52
40) Dibenzo(a,h)anthracene	25.567	278	1522	0.081	ng	# 41
41) Benzo(g,h,i)perylene	26.193	276	2066	0.092	ng	# 87

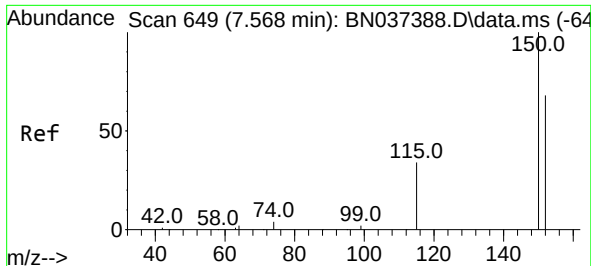
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037386.D
Acq On : 26 Jun 2025 10:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

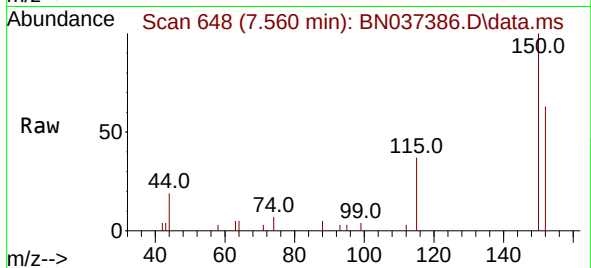
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:02:41 2025
Response via : Initial Calibration



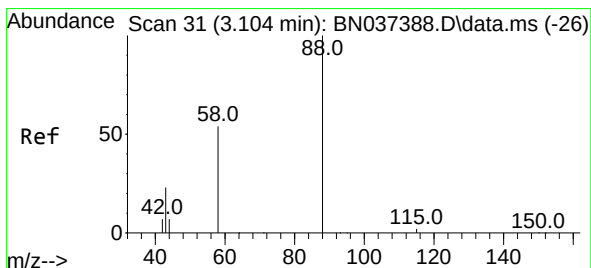
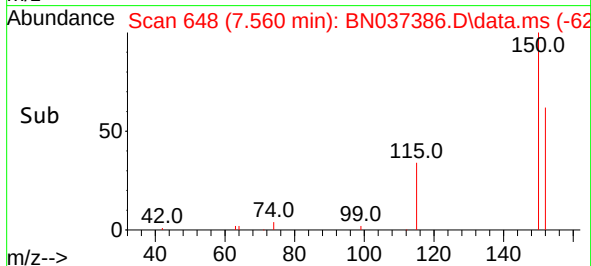
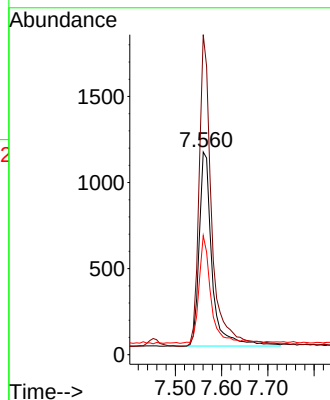


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

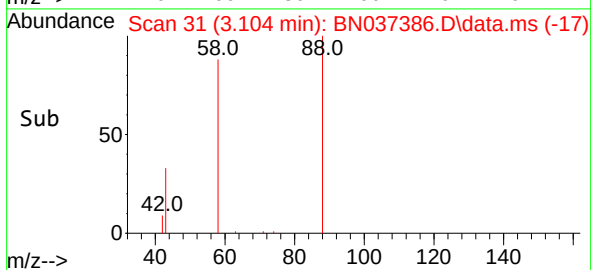
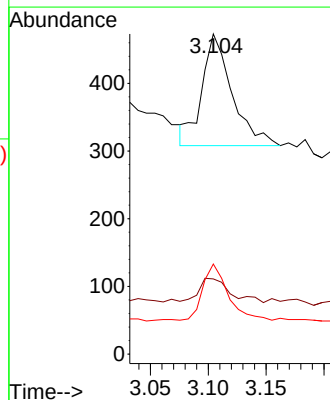
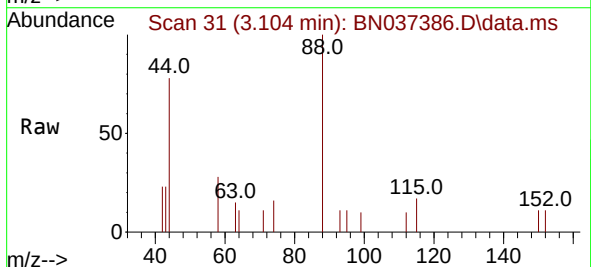


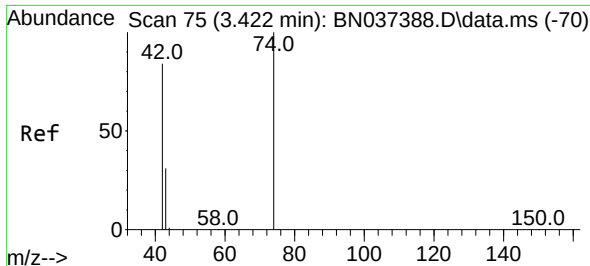
Tgt Ion:152 Resp: 2183
Ion Ratio Lower Upper
152 100
150 157.8 116.2 174.2
115 58.7 42.9 64.3



#2
1,4-Dioxane
Concen: 0.144 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 88 Resp: 299
Ion Ratio Lower Upper
88 100
43 23.1 21.6 32.4
58 44.1 45.9 68.9#

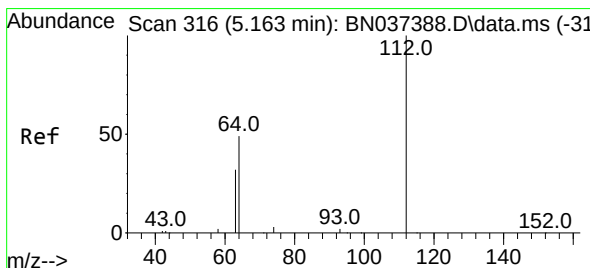
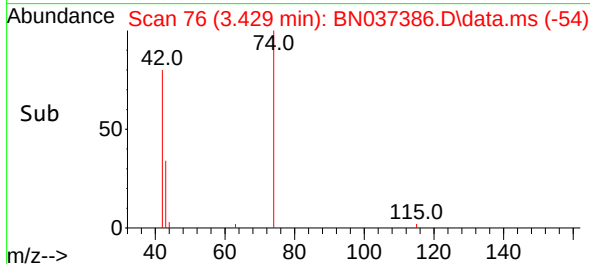
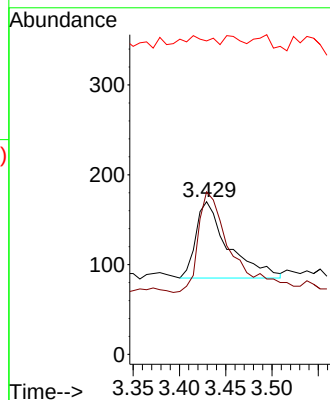
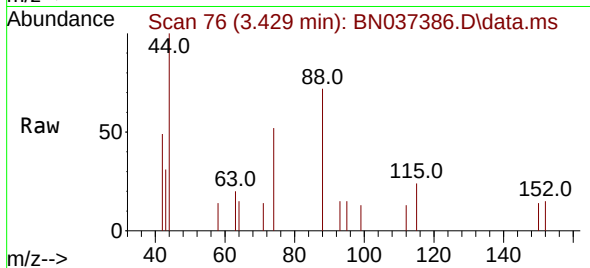




#3
 n-Nitrosodimethylamine
 Concen: 0.101 ng
 RT: 3.429 min Scan# 75
 Delta R.T. 0.007 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

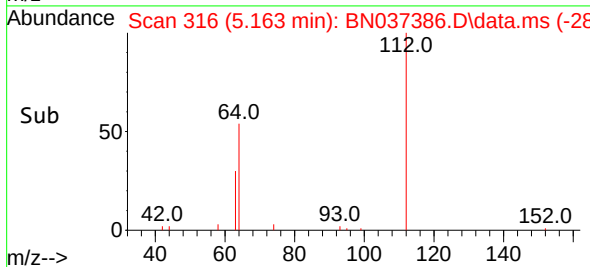
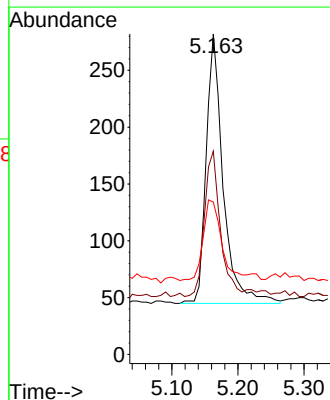
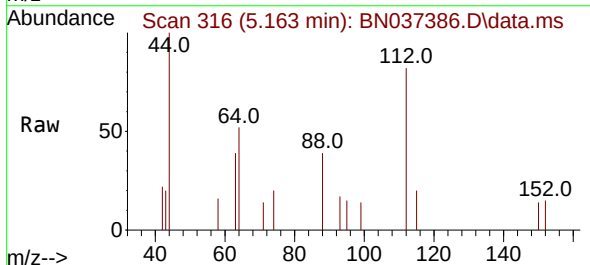
Instrument :
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 ClientSampleId :
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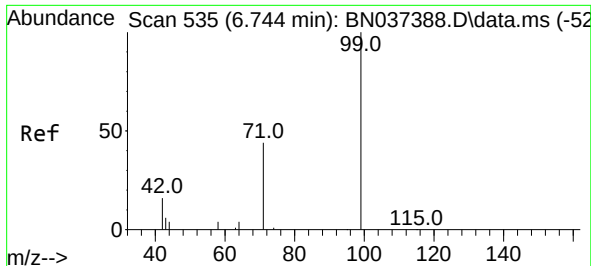
Tgt Ion: 42 Resp: 207
 Ion Ratio Lower Upper
 42 100
 74 136.2 97.8 146.8
 44 11.6 8.7 13.1



#4
 2-Fluorophenol
 Concen: 0.100 ng
 RT: 5.163 min Scan# 316
 Delta R.T. -0.000 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

Tgt Ion: 112 Resp: 421
 Ion Ratio Lower Upper
 112 100
 64 50.6 40.3 60.5
 63 34.0 26.1 39.1

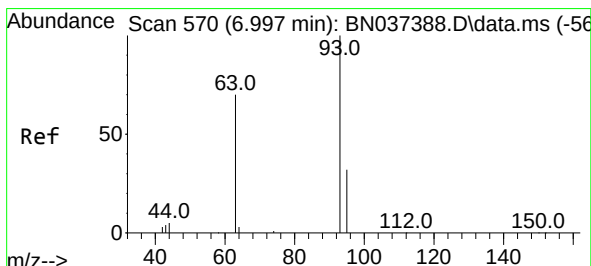
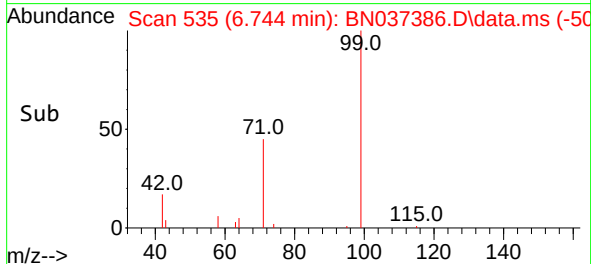
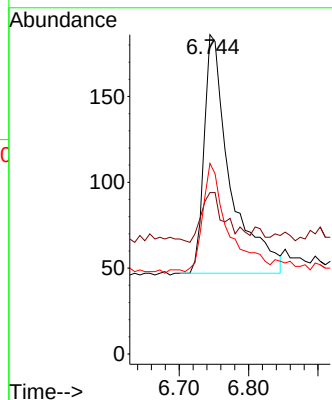
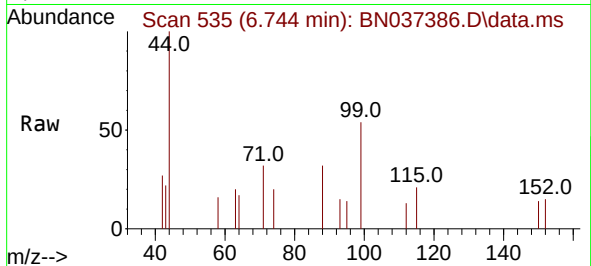




#5
Phenol-d6
Concen: 0.083 ng
RT: 6.744 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

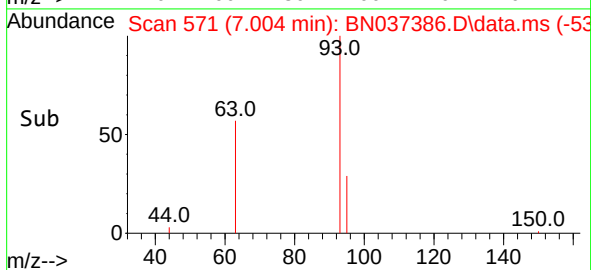
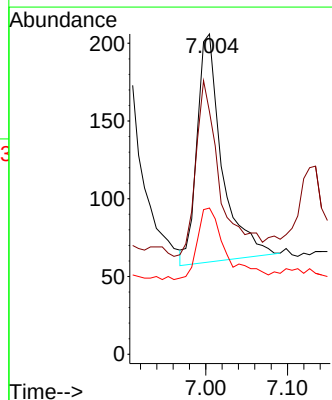
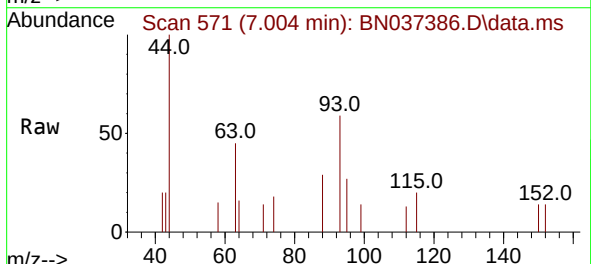
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ClientSampleId :
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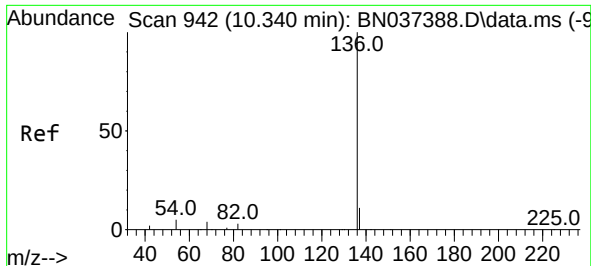
Tgt Ion:	99	Resp:	362
Ion	Ratio	Lower	Upper
99	100		
42	19.6	15.6	23.4
71	43.6	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.081 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:	93	Resp:	313
Ion	Ratio	Lower	Upper
93	100		
63	75.1	49.6	74.4#
95	35.5	23.9	35.9

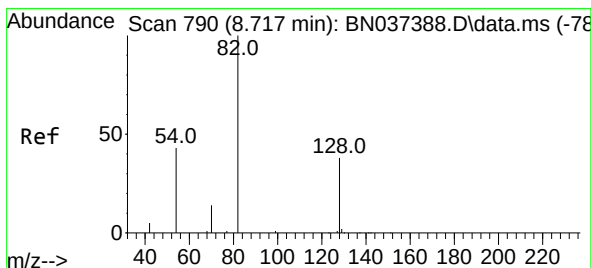
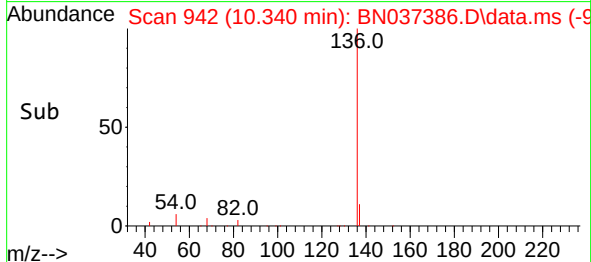
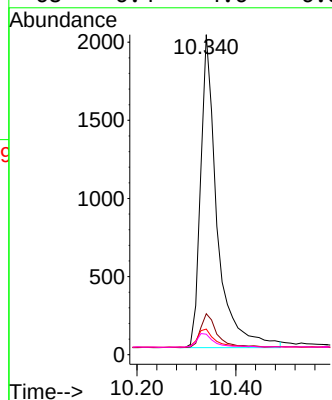
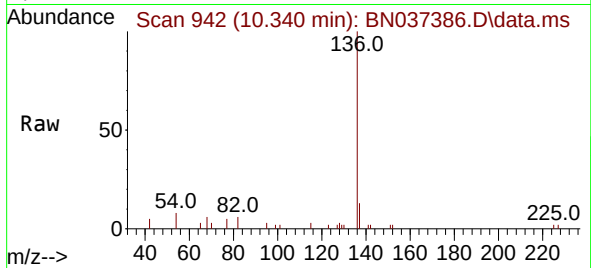




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

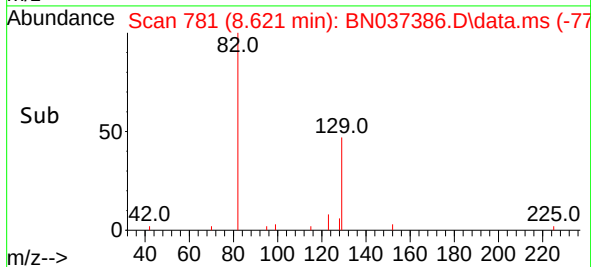
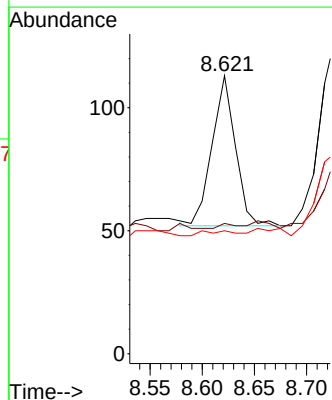
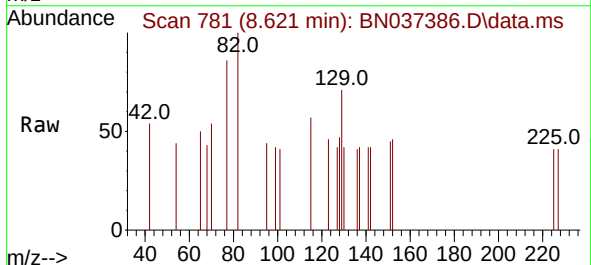
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ClientSampleId :
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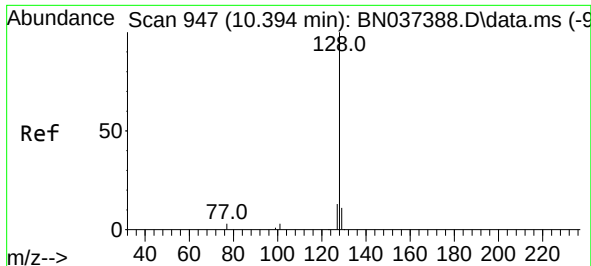
Tgt Ion:	136	Resp:	4628
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	8.0	5.6	8.4
68	6.4	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.026 ng
RT: 8.621 min Scan# 781
Delta R.T. -0.096 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:	82	Resp:	95
Ion	Ratio	Lower	Upper
82	100		
128	46.9	34.0	51.0
54	44.2	37.7	56.5

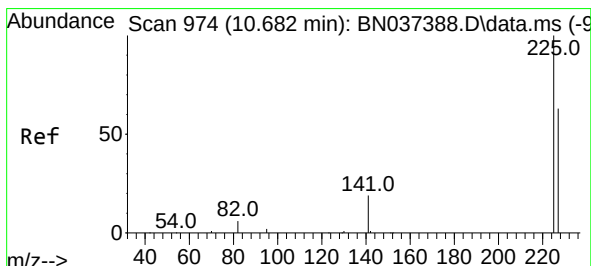
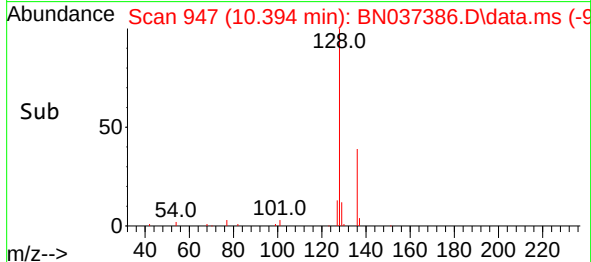
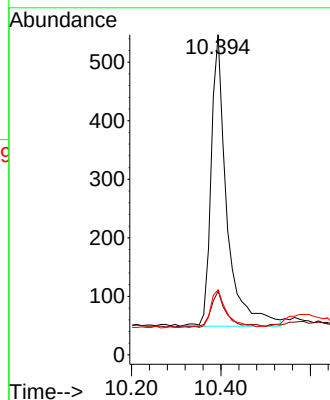
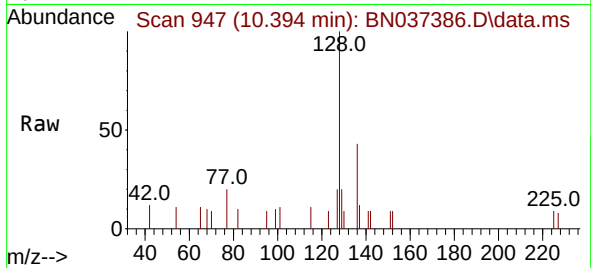




#9
Naphthalene
Concen: 0.101 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

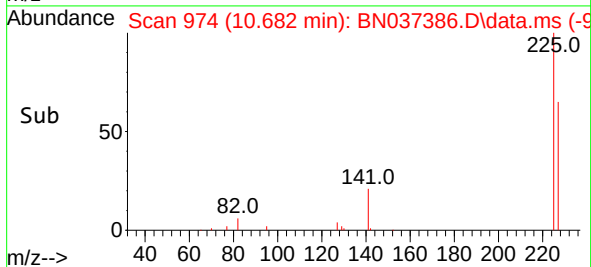
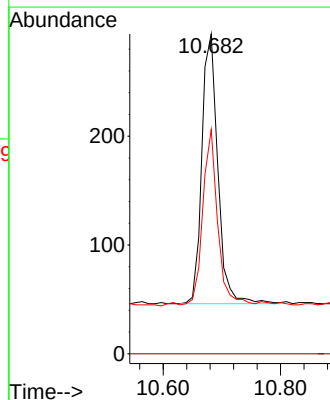
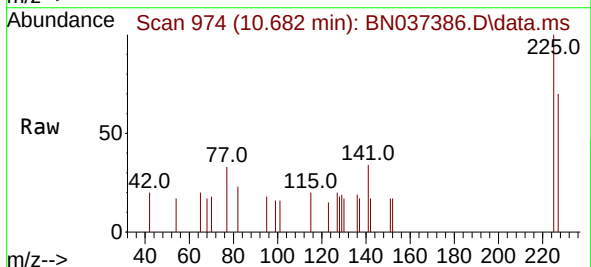
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

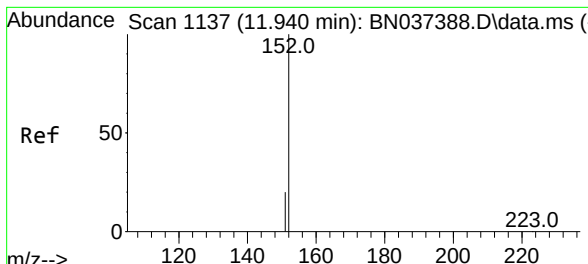
Tgt Ion:128 Resp: 1206
Ion Ratio Lower Upper
128 100
129 19.9 10.4 15.6#
127 20.3 12.2 18.4#



#10
Hexachlorobutadiene
Concen: 0.100 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:225 Resp: 471
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 60.7 49.9 74.9



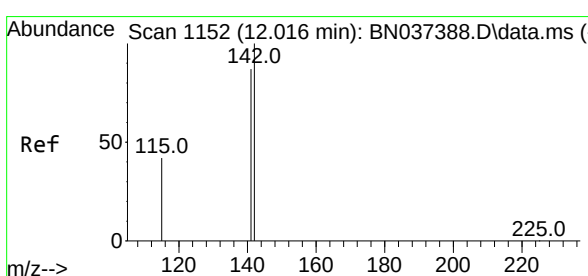
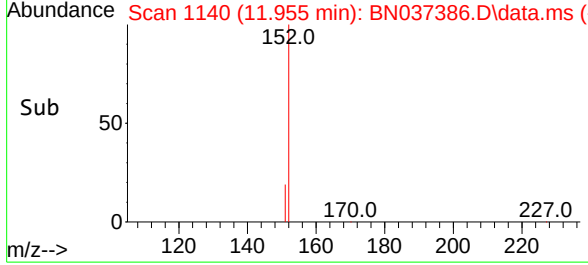
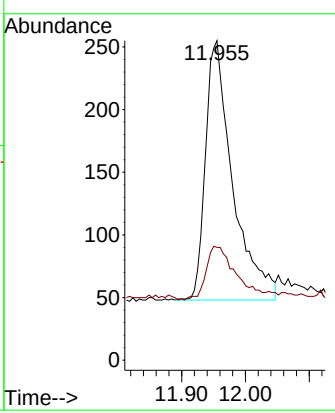
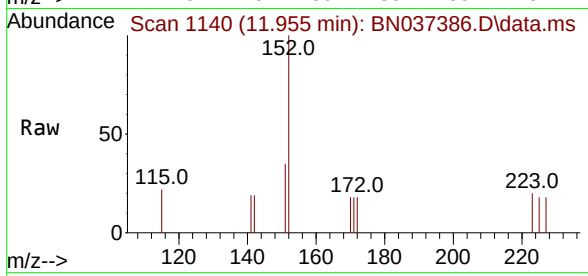


#11
 2-Methylnaphthalene-d10
 Concen: 0.086 ng
 RT: 11.955 min Scan# 1137
 Delta R.T. 0.015 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion:152 Resp: 615

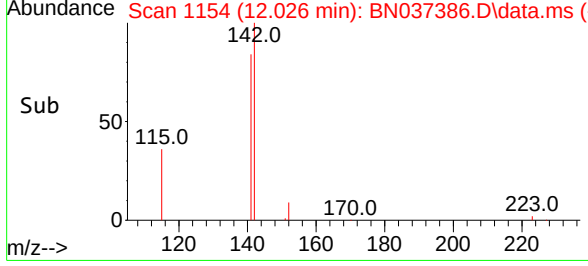
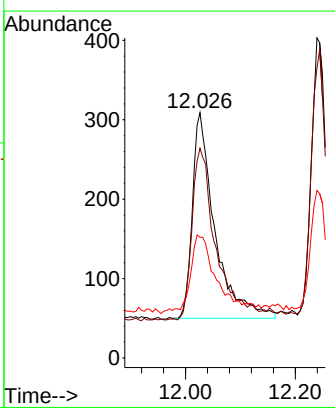
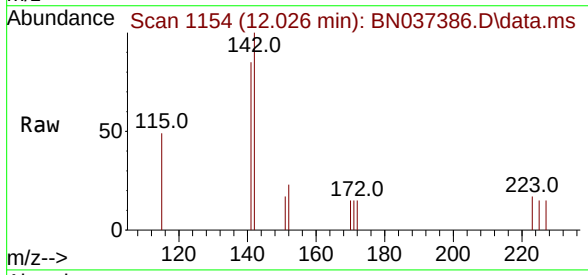
Ion	Ratio	Lower	Upper
152	100		
151	22.9	18.4	27.6

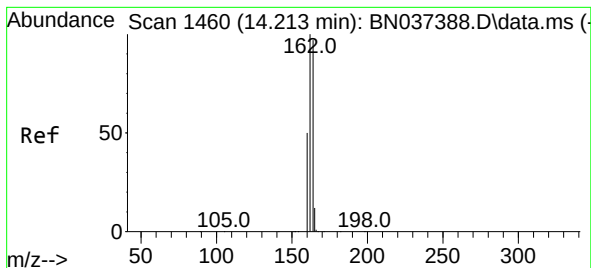


#12
 2-Methylnaphthalene
 Concen: 0.090 ng
 RT: 12.026 min Scan# 1154
 Delta R.T. 0.010 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

Tgt Ion:142 Resp: 735

Ion	Ratio	Lower	Upper
142	100		
141	85.4	70.1	105.1
115	49.2	35.8	53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

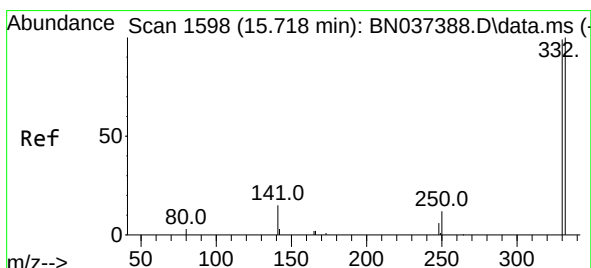
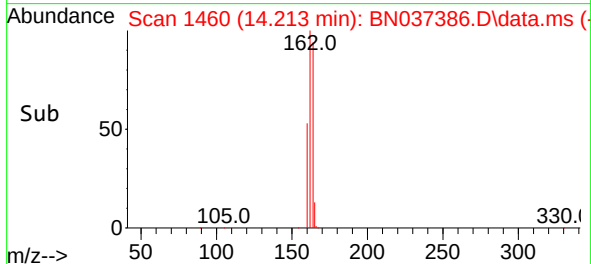
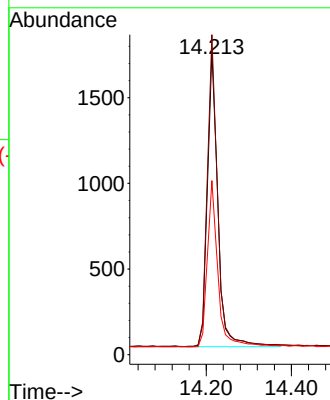
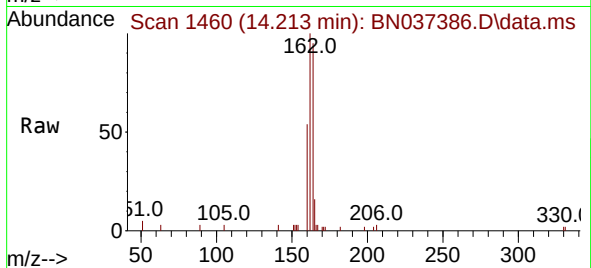
Tgt Ion:164 Resp: 2945

Ion Ratio Lower Upper

164 100

162 105.7 82.6 123.8

160 57.5 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.083 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.012 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

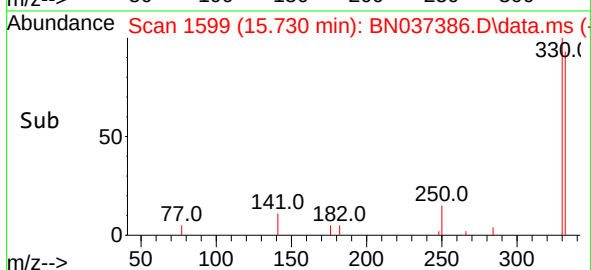
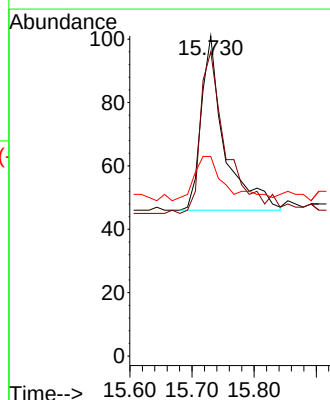
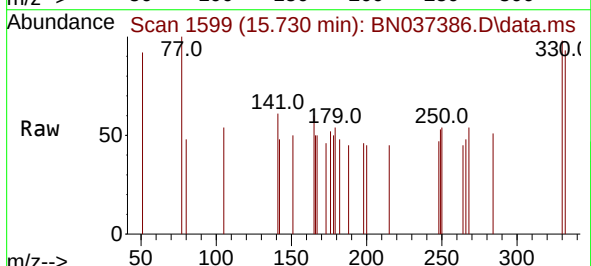
Tgt Ion:330 Resp: 143

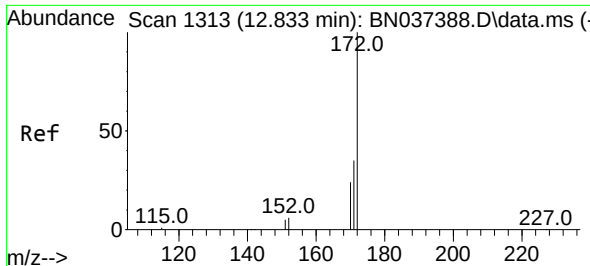
Ion Ratio Lower Upper

330 100

332 107.7 77.8 116.8

141 33.6 24.0 36.0

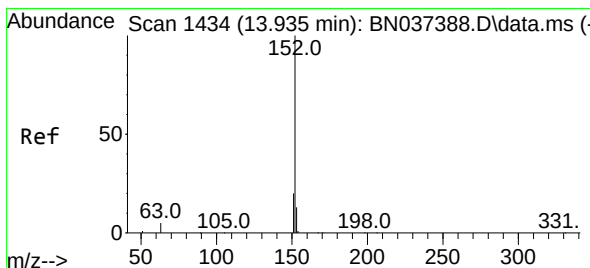
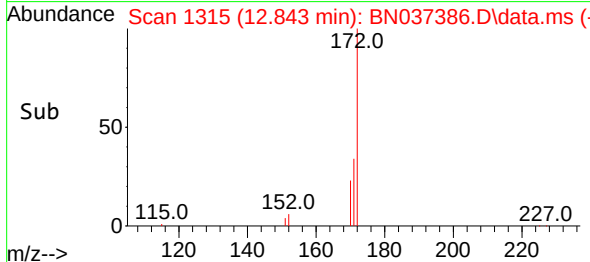
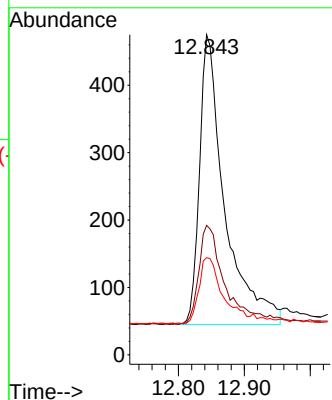
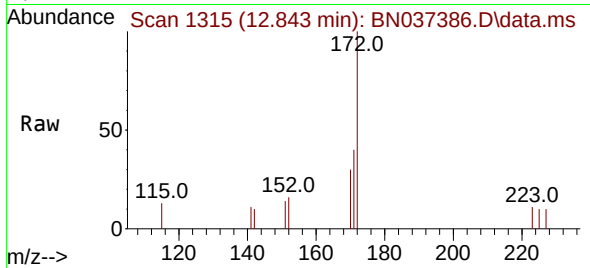




#15
2-Fluorobiphenyl
Concen: 0.090 ng
RT: 12.843 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

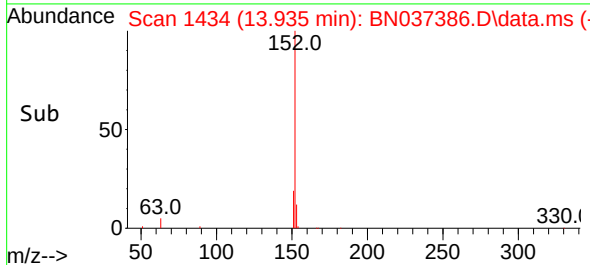
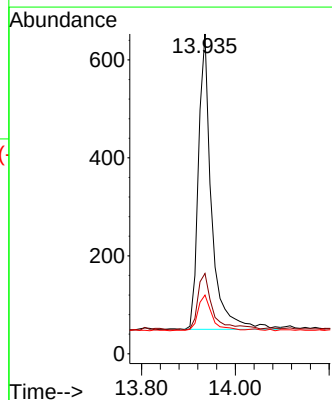
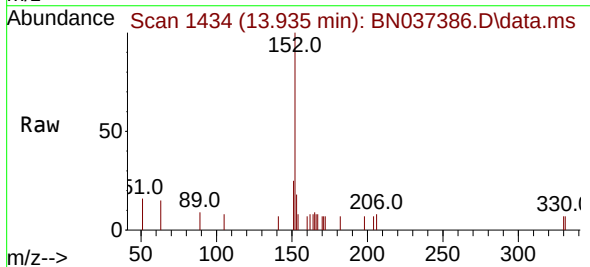
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

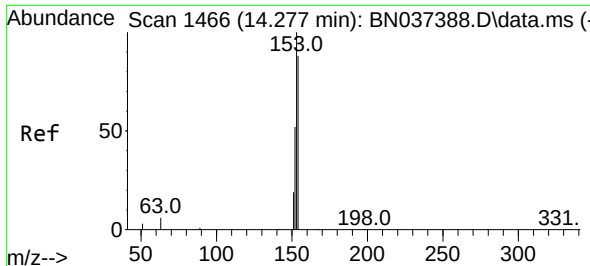
Tgt Ion:172 Resp: 1140
Ion Ratio Lower Upper
172 100
171 40.4 28.8 43.2
170 30.3 20.3 30.5



#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:152 Resp: 1167
Ion Ratio Lower Upper
152 100
151 21.9 15.8 23.6
153 13.1 10.3 15.5

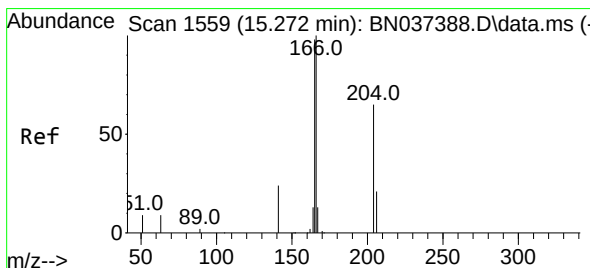
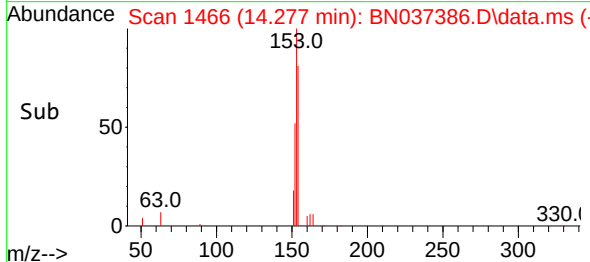
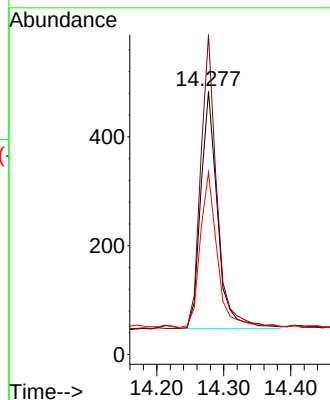
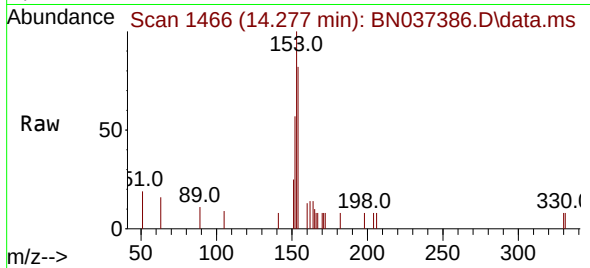




#17
Acenaphthene
Concen: 0.095 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

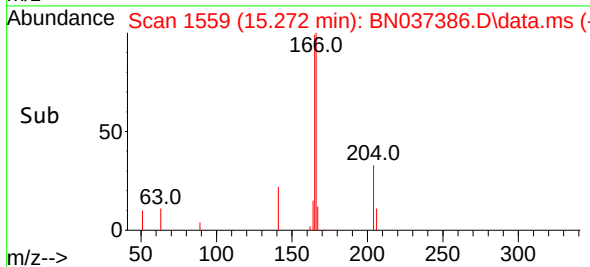
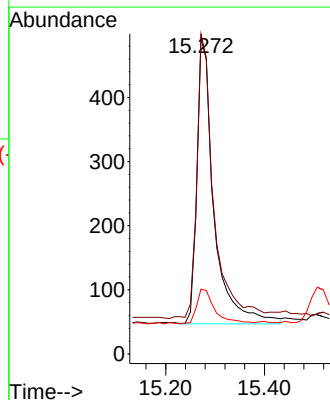
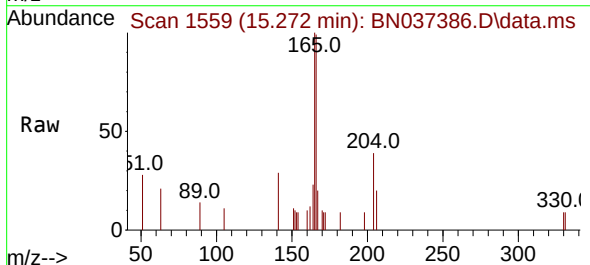
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

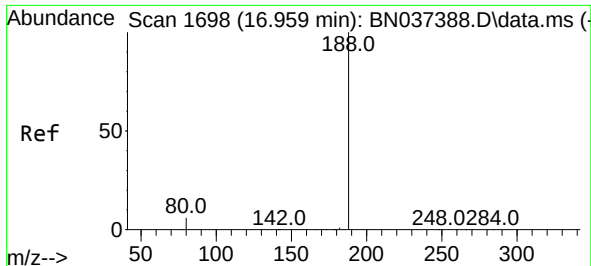
Tgt Ion:154 Resp: 758
Ion Ratio Lower Upper
154 100
153 119.4 94.6 141.8
152 66.6 50.2 75.2



#18
Fluorene
Concen: 0.094 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:166 Resp: 1063
Ion Ratio Lower Upper
166 100
165 99.1 79.4 119.2
167 12.2 10.6 15.8

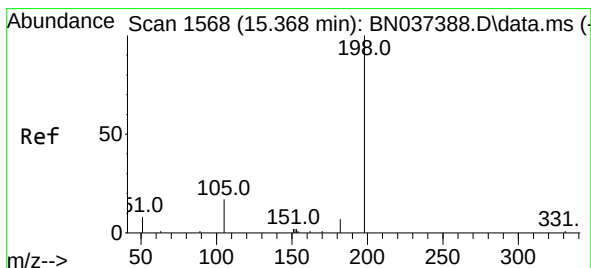
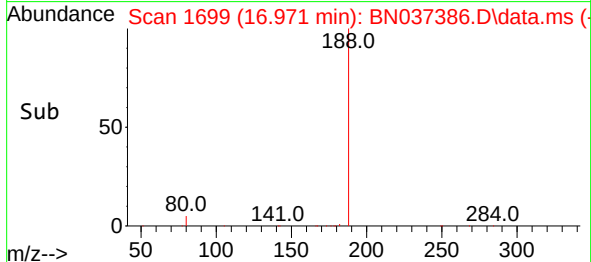
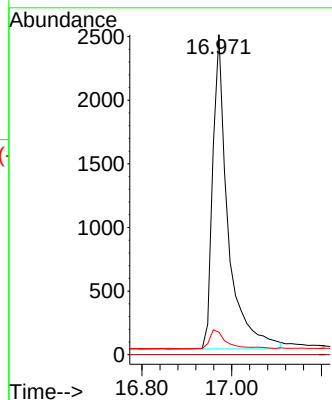
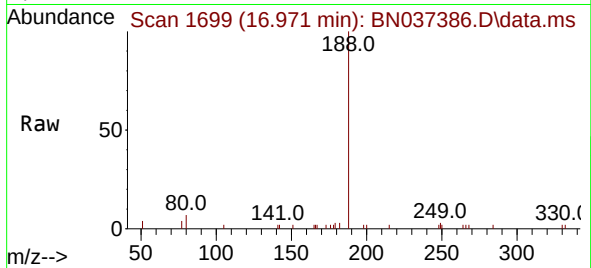




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

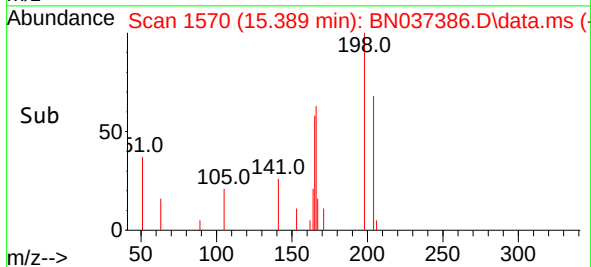
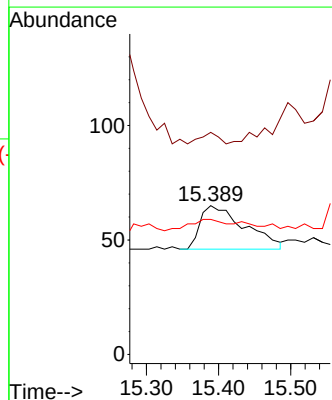
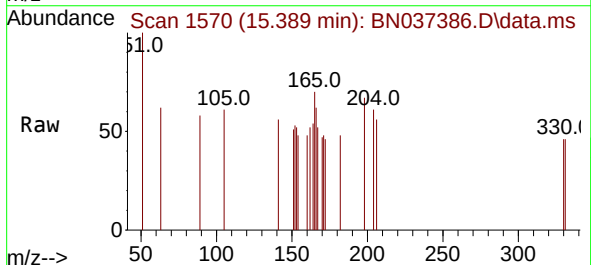
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

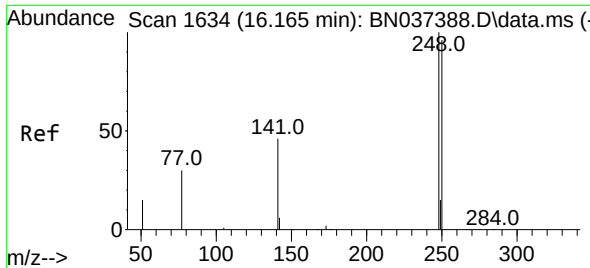
Tgt Ion:188 Resp: 5811
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.1 6.2 9.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.054 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.021 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:198 Resp: 81
Ion Ratio Lower Upper
198 100
51 149.2 38.8 58.2#
105 90.8 29.8 44.6#

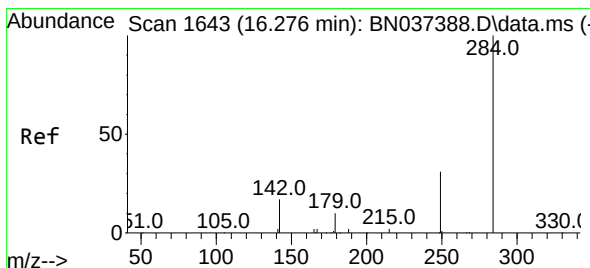
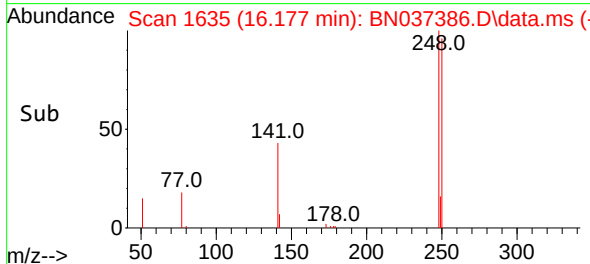
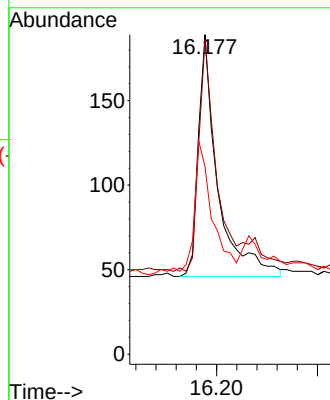
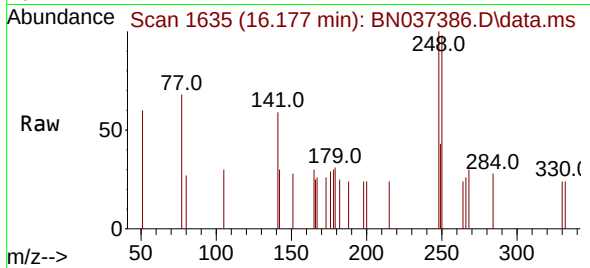




#21
4-Bromophenyl-phenylether
Concen: 0.093 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

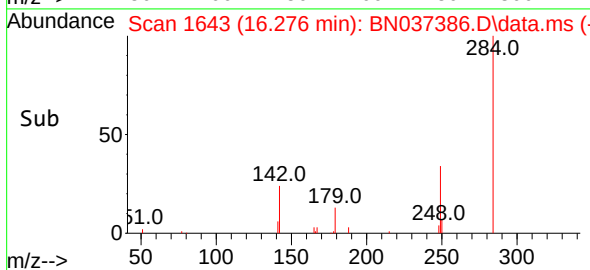
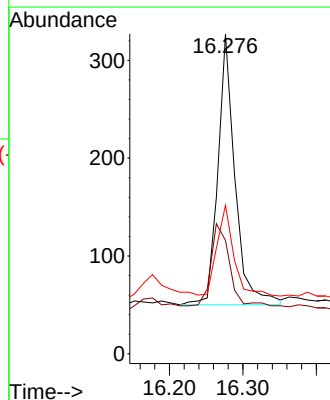
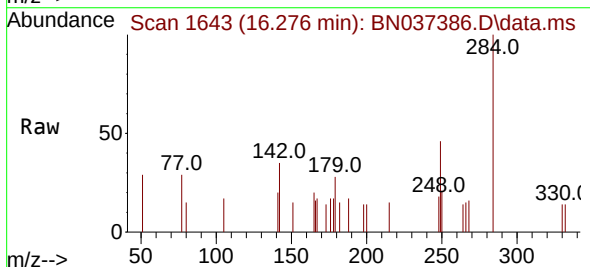
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

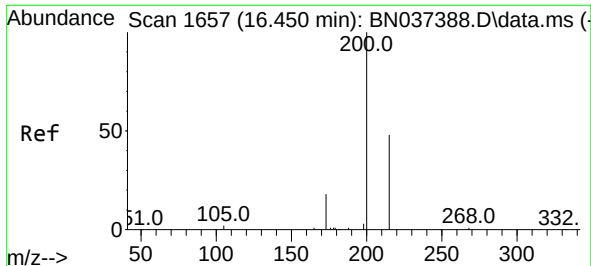
Tgt Ion:248 Resp: 383
Ion Ratio Lower Upper
248 100
250 98.4 77.0 115.4
141 58.7 38.7 58.1#



#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:284 Resp: 450
Ion Ratio Lower Upper
284 100
142 34.4 27.2 40.8
249 35.1 26.7 40.1

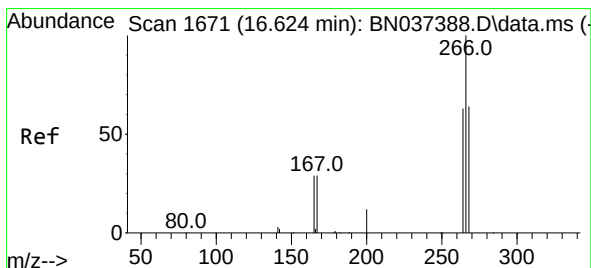
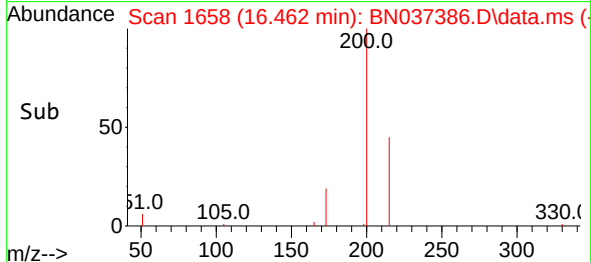
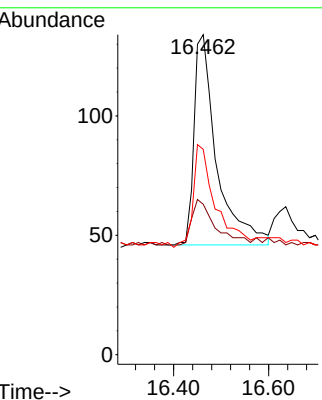
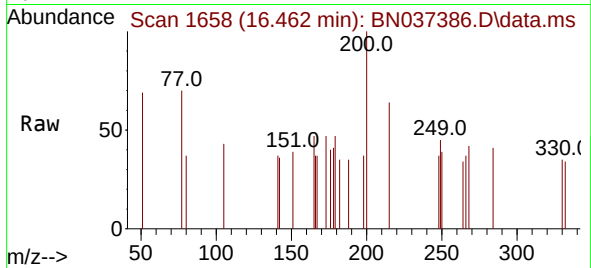




#23
 Atrazine
 Concen: 0.090 ng
 RT: 16.462 min Scan# 1658
 Delta R.T. 0.012 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

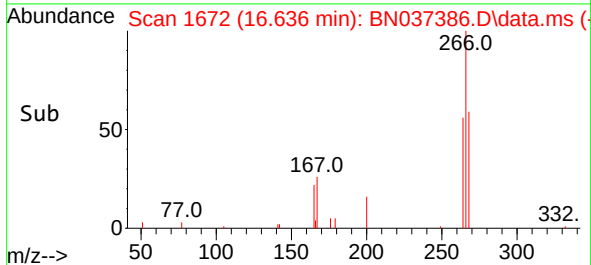
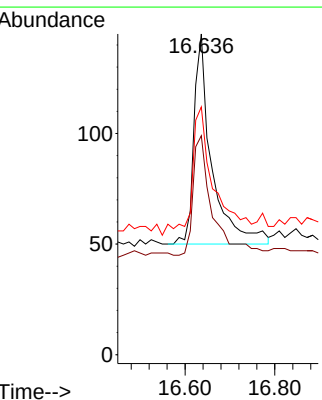
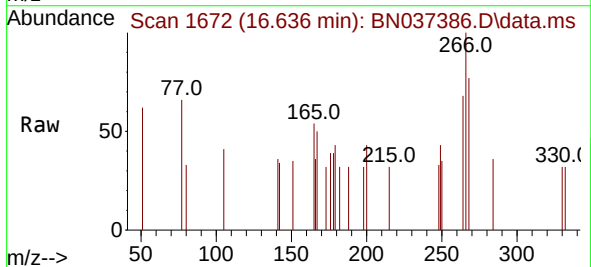
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

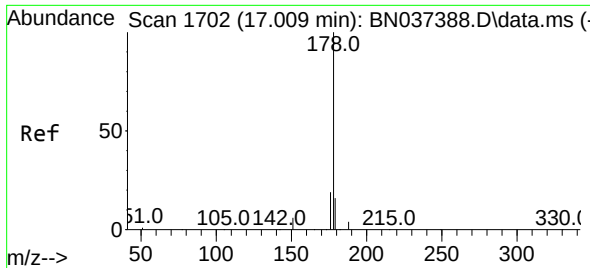
Tgt Ion:200 Resp: 291
 Ion Ratio Lower Upper
 200 100
 173 47.0 19.0 28.6#
 215 64.2 41.3 61.9#



#24
 Pentachlorophenol
 Concen: 0.110 ng
 RT: 16.636 min Scan# 1672
 Delta R.T. 0.012 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

Tgt Ion:266 Resp: 262
 Ion Ratio Lower Upper
 266 100
 264 61.5 49.2 73.8
 268 75.2 54.2 81.4

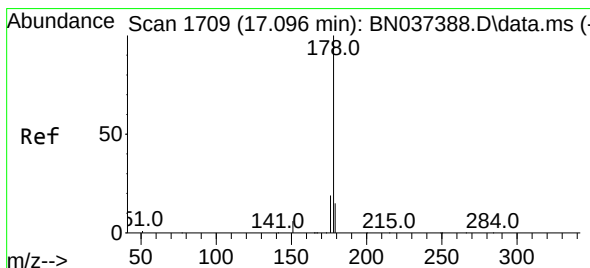
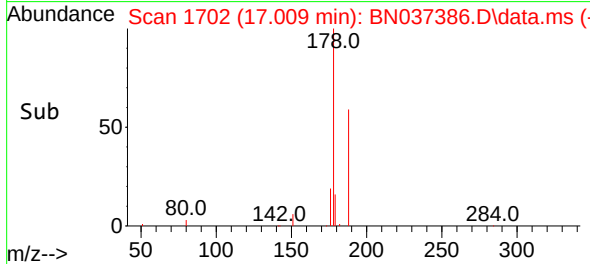
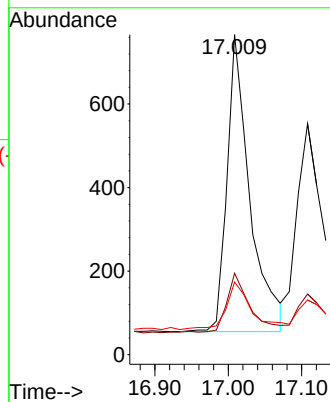
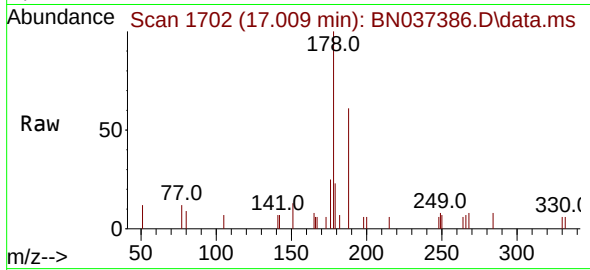




#25
Phenanthrene
Concen: 0.094 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

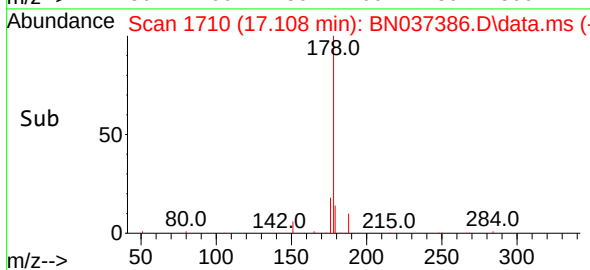
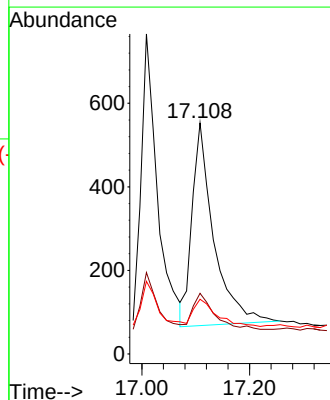
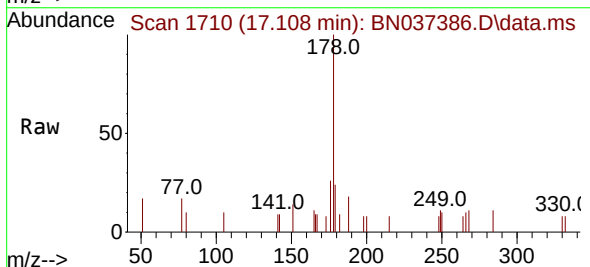
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

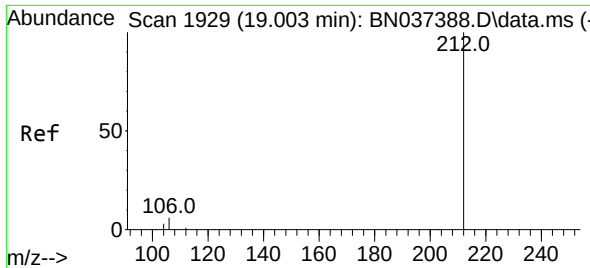
Tgt Ion:	178	Resp:	1534
Ion Ratio	Lower	Upper	
178	100		
176	20.5	15.6	23.4
179	17.4	12.8	19.2



#26
Anthracene
Concen: 0.090 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:	178	Resp:	1358
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.9	22.3
179	15.2	12.4	18.6

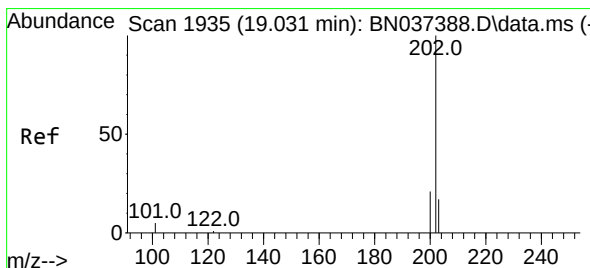
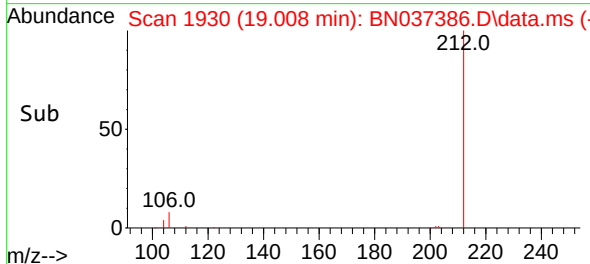
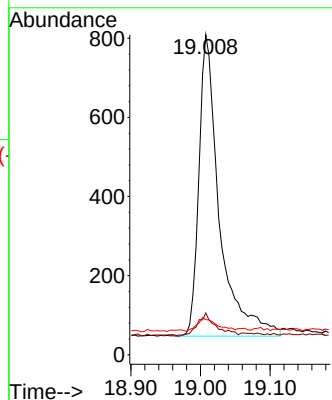
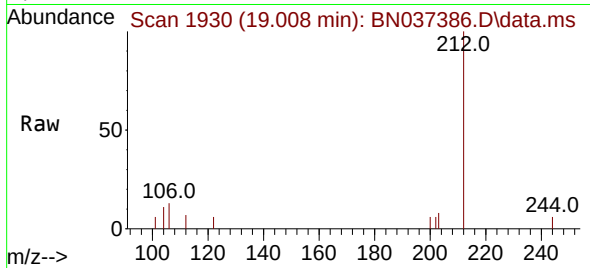




#27
Fluoranthene-d10
Concen: 0.094 ng
RT: 19.008 min Scan# 1930
Delta R.T. 0.005 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

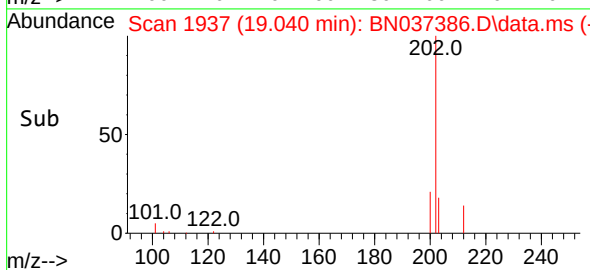
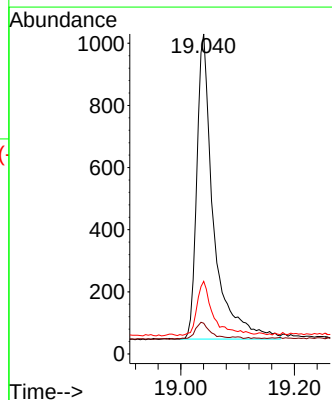
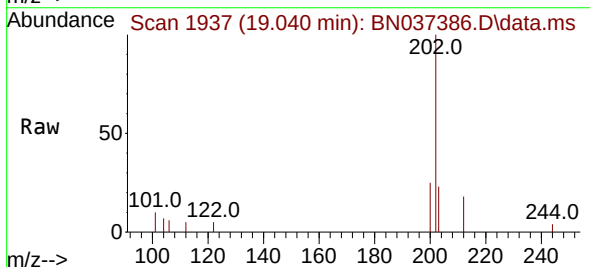
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

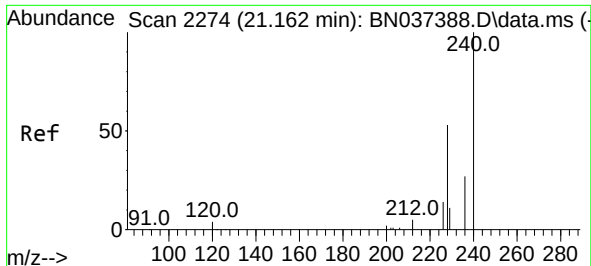
Tgt Ion:212 Resp: 1559
Ion Ratio Lower Upper
212 100
106 6.3 4.5 6.7
104 4.4 2.7 4.1#



#28
Fluoranthene
Concen: 0.096 ng
RT: 19.040 min Scan# 1937
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:202 Resp: 2001
Ion Ratio Lower Upper
202 100
101 5.3 3.8 5.6
203 17.4 13.5 20.3

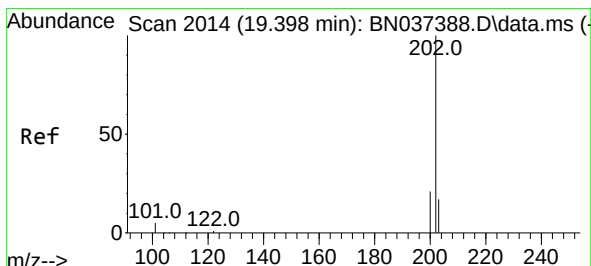
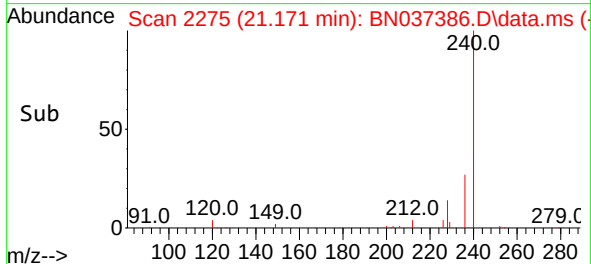
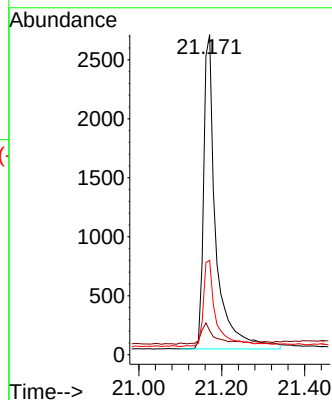
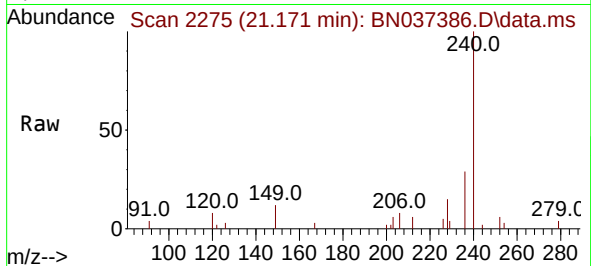




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

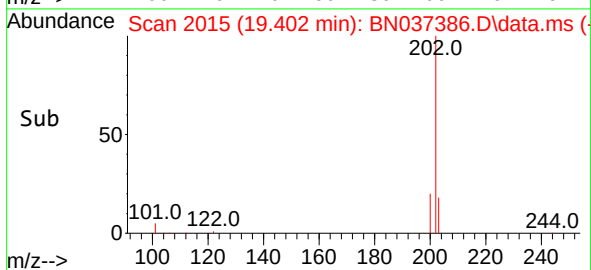
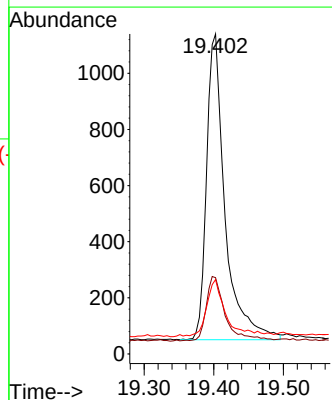
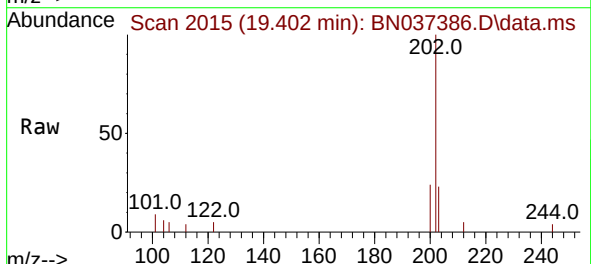
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

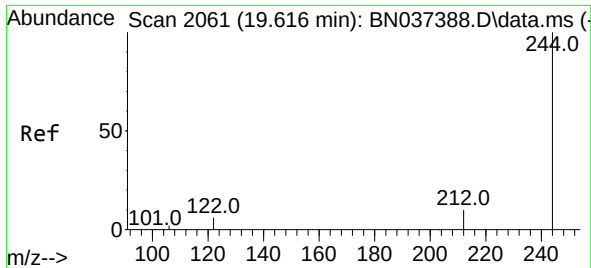
Tgt Ion:240 Resp: 5498
Ion Ratio Lower Upper
240 100
120 7.6 5.3 7.9
236 29.5 22.7 34.1



#30
Pyrene
Concen: 0.096 ng
RT: 19.402 min Scan# 2015
Delta R.T. 0.005 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:202 Resp: 2006
Ion Ratio Lower Upper
202 100
200 21.0 16.5 24.7
203 18.0 14.2 21.2

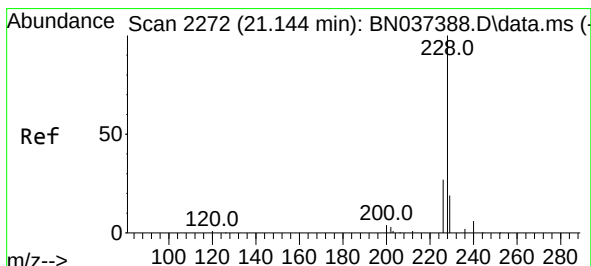
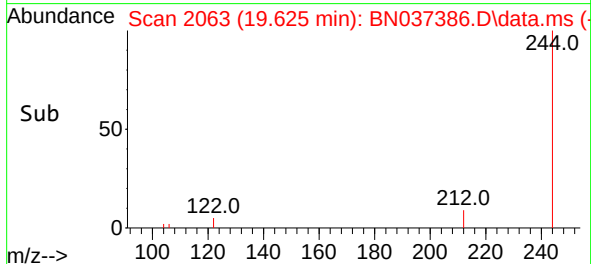
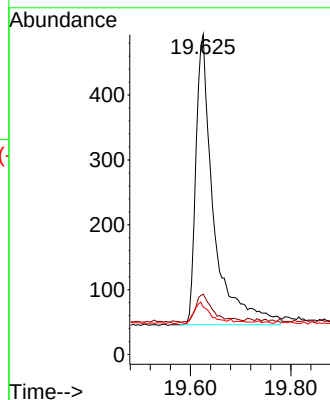
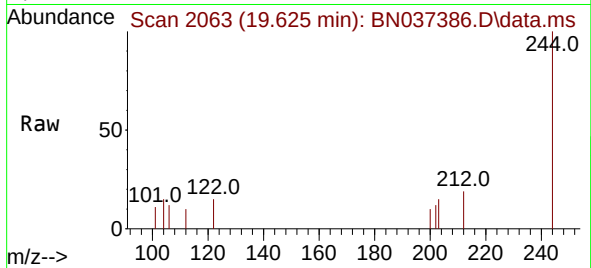




#31
 Terphenyl-d14
 Concen: 0.094 ng
 RT: 19.625 min Scan# 2063
 Delta R.T. 0.009 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

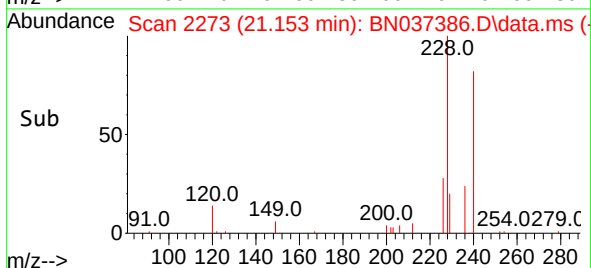
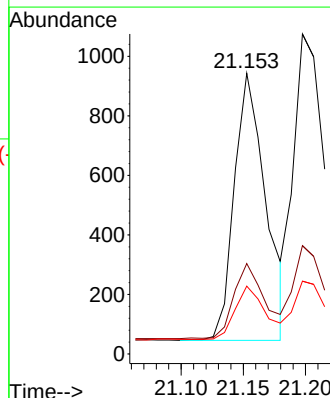
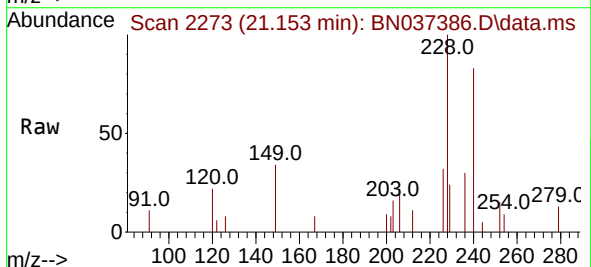
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

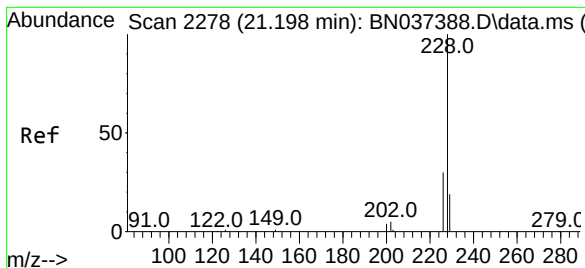
Tgt Ion:244 Resp: 1099
 Ion Ratio Lower Upper
 244 100
 212 18.9 9.1 13.7#
 122 14.8 6.3 9.5#



#32
 Benzo(a)anthracene
 Concen: 0.091 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. 0.009 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

Tgt Ion:228 Resp: 1579
 Ion Ratio Lower Upper
 228 100
 226 32.2 22.6 34.0
 229 24.2 16.2 24.2





#33

Chrysene

Concen: 0.105 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

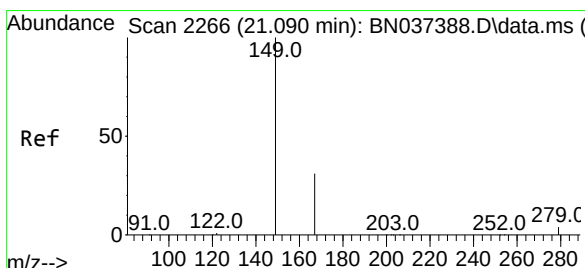
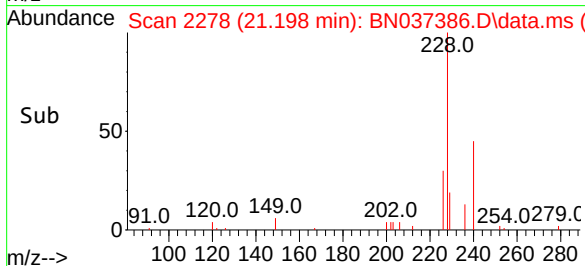
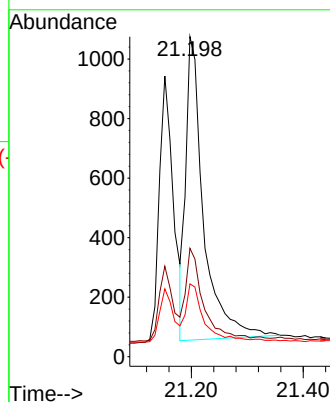
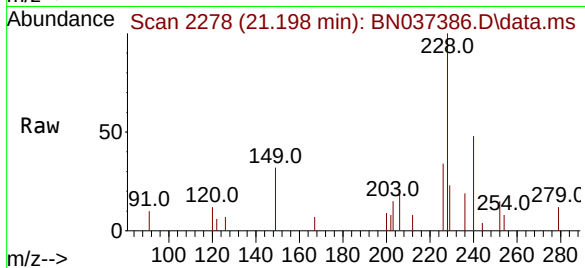
Tgt Ion:228 Resp: 2241

Ion Ratio Lower Upper

228 100

226 33.9 24.5 36.7

229 22.8 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.123 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

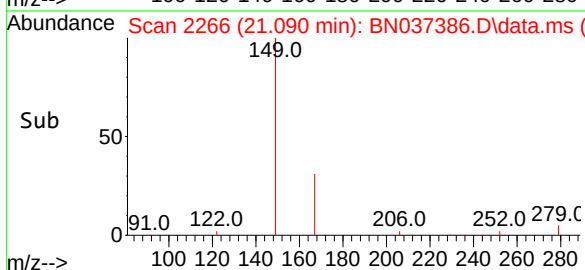
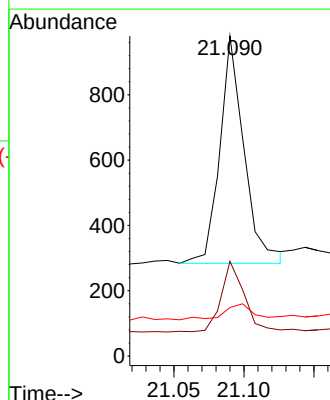
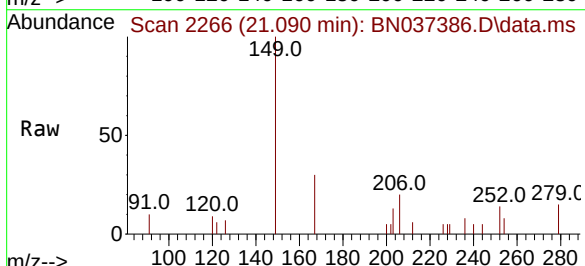
Tgt Ion:149 Resp: 839

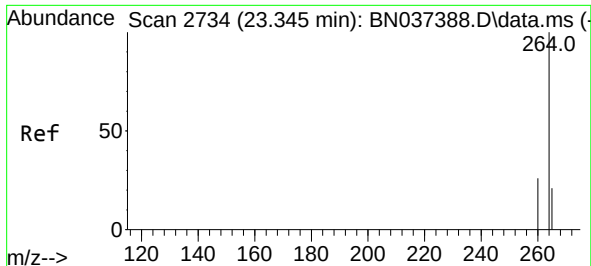
Ion Ratio Lower Upper

149 100

167 30.3 24.8 37.2

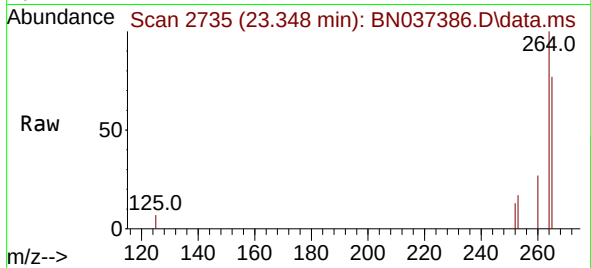
279 8.9 5.0 7.6#



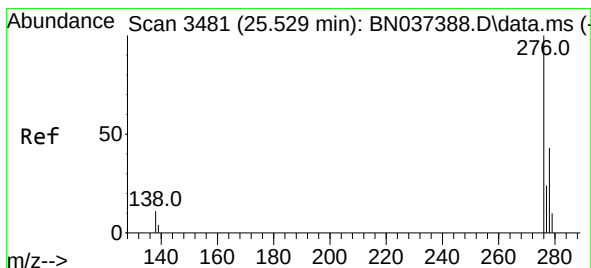
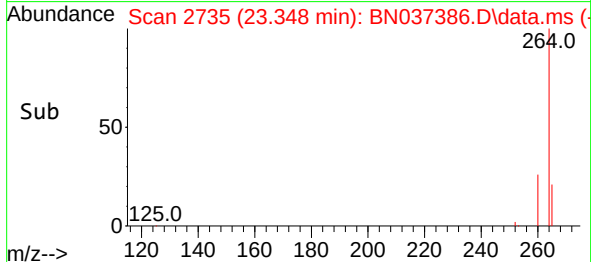
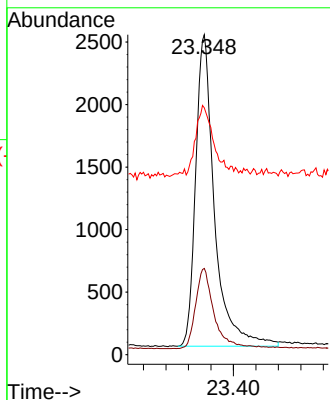


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.348 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

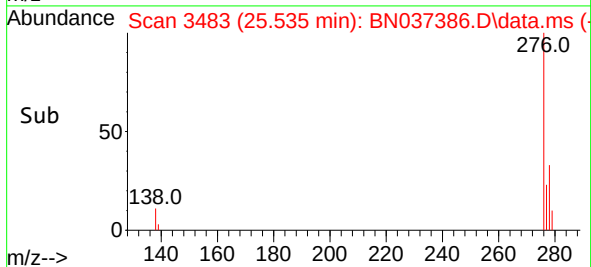
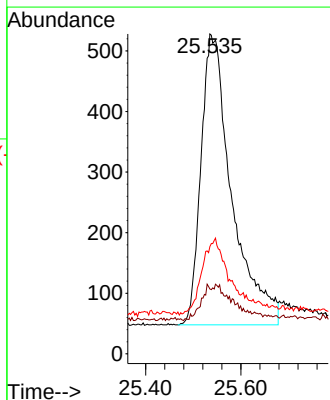
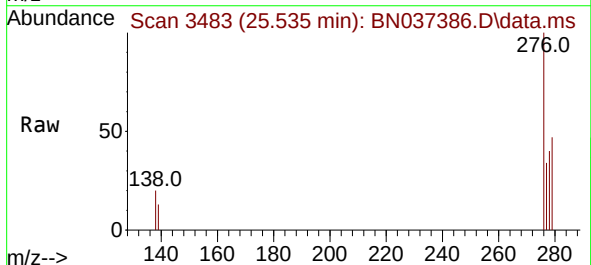


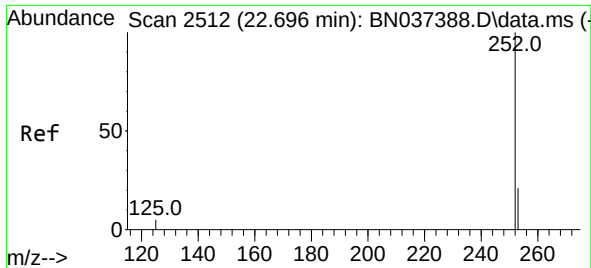
Tgt Ion:264 Resp: 5798
 Ion Ratio Lower Upper
 264 100
 260 26.9 21.4 32.0
 265 77.1 56.2 84.4



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.088 ng
 RT: 25.535 min Scan# 3483
 Delta R.T. 0.006 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

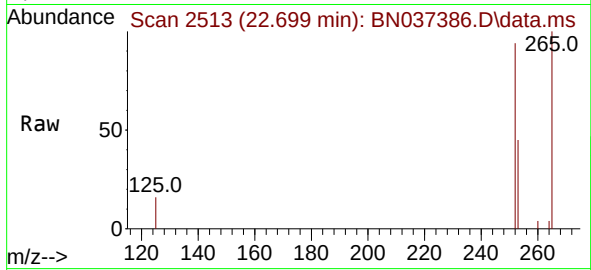
Tgt Ion:276 Resp: 2156
 Ion Ratio Lower Upper
 276 100
 138 4.1 8.5 12.7#
 277 21.2 19.7 29.5



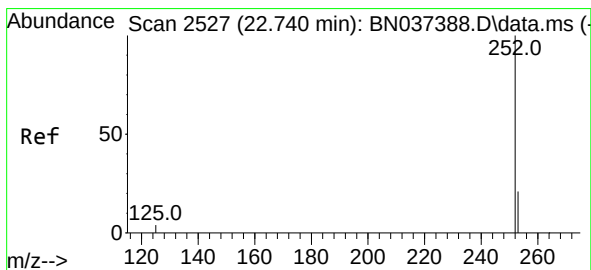
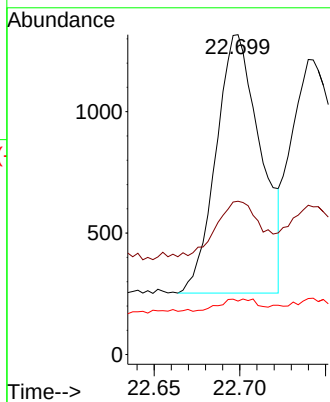


#37
Benzo(b)fluoranthene
Concen: 0.094 ng
RT: 22.699 min Scan# 2512
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

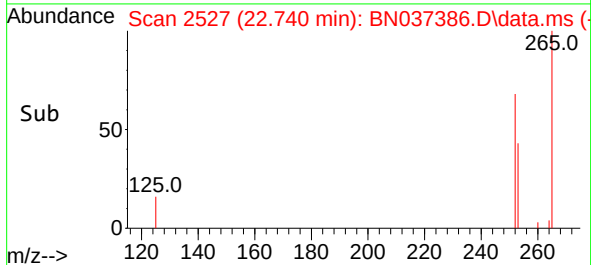
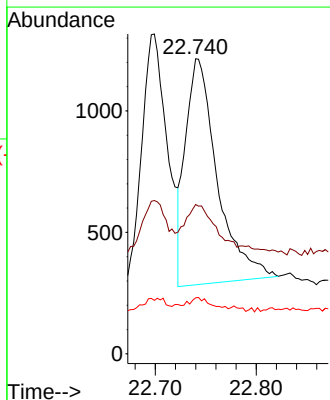
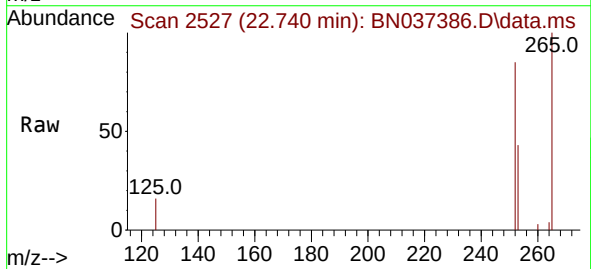


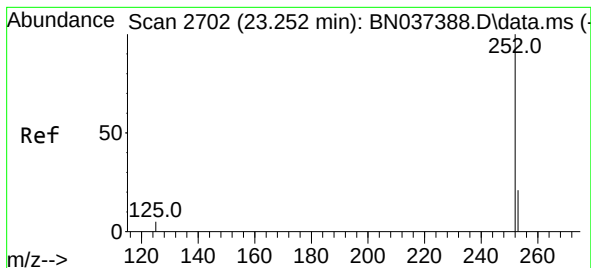
Tgt Ion:252 Resp: 1927
Ion Ratio Lower Upper
252 100
253 47.9 22.8 34.2#
125 16.7 6.2 9.4#



#38
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:252 Resp: 2041
Ion Ratio Lower Upper
252 100
253 50.6 23.2 34.8#
125 19.0 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.254 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037386.D

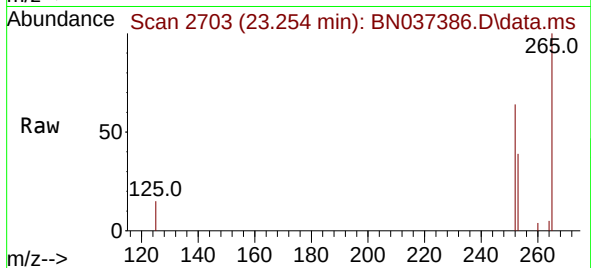
Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



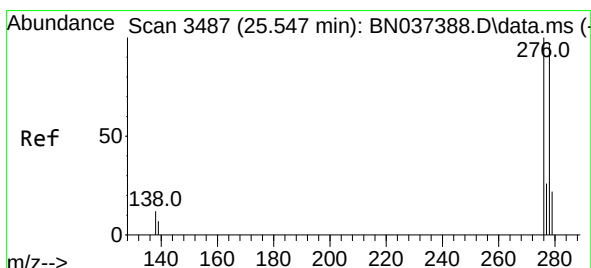
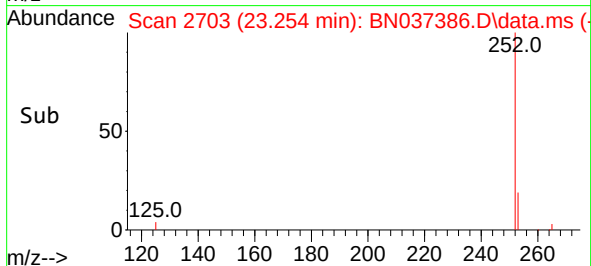
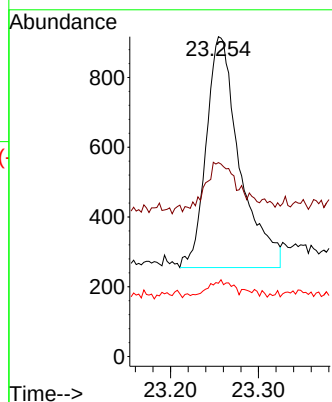
Tgt Ion:252 Resp: 1755

Ion Ratio Lower Upper

252 100

253 60.6 25.6 38.4#

125 22.9 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.081 ng

RT: 25.567 min Scan# 3494

Delta R.T. 0.020 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

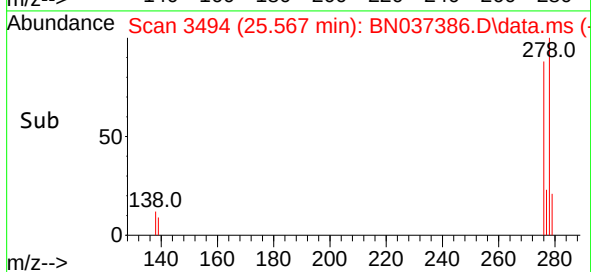
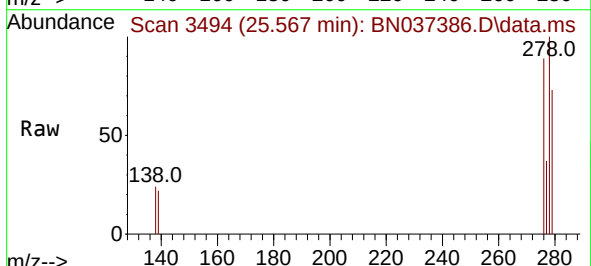
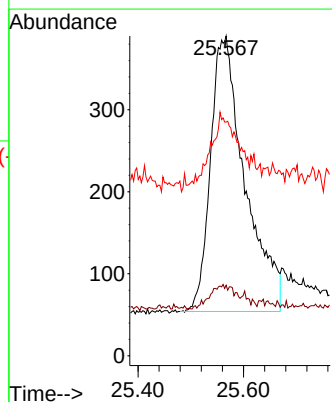
Tgt Ion:278 Resp: 1522

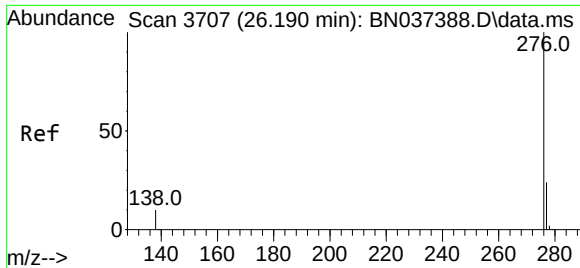
Ion Ratio Lower Upper

278 100

139 22.1 8.5 12.7#

279 73.1 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 0.092 ng

RT: 26.193 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037386.D

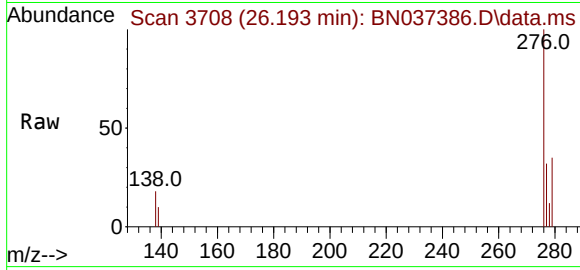
Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



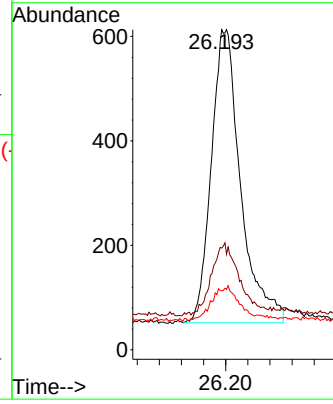
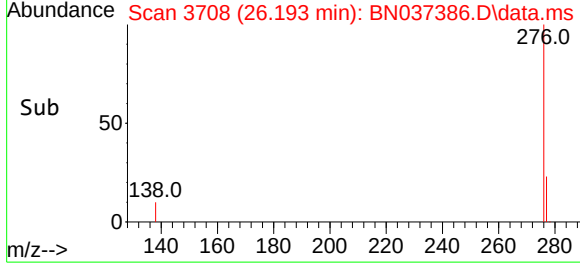
Tgt Ion:276 Resp: 2066

Ion Ratio Lower Upper

276 100

277 31.8 21.0 31.4#

138 18.4 9.6 14.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
 Data File : BN037431.D
 Acq On : 02 Jul 2025 18:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jul 02 18:25:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

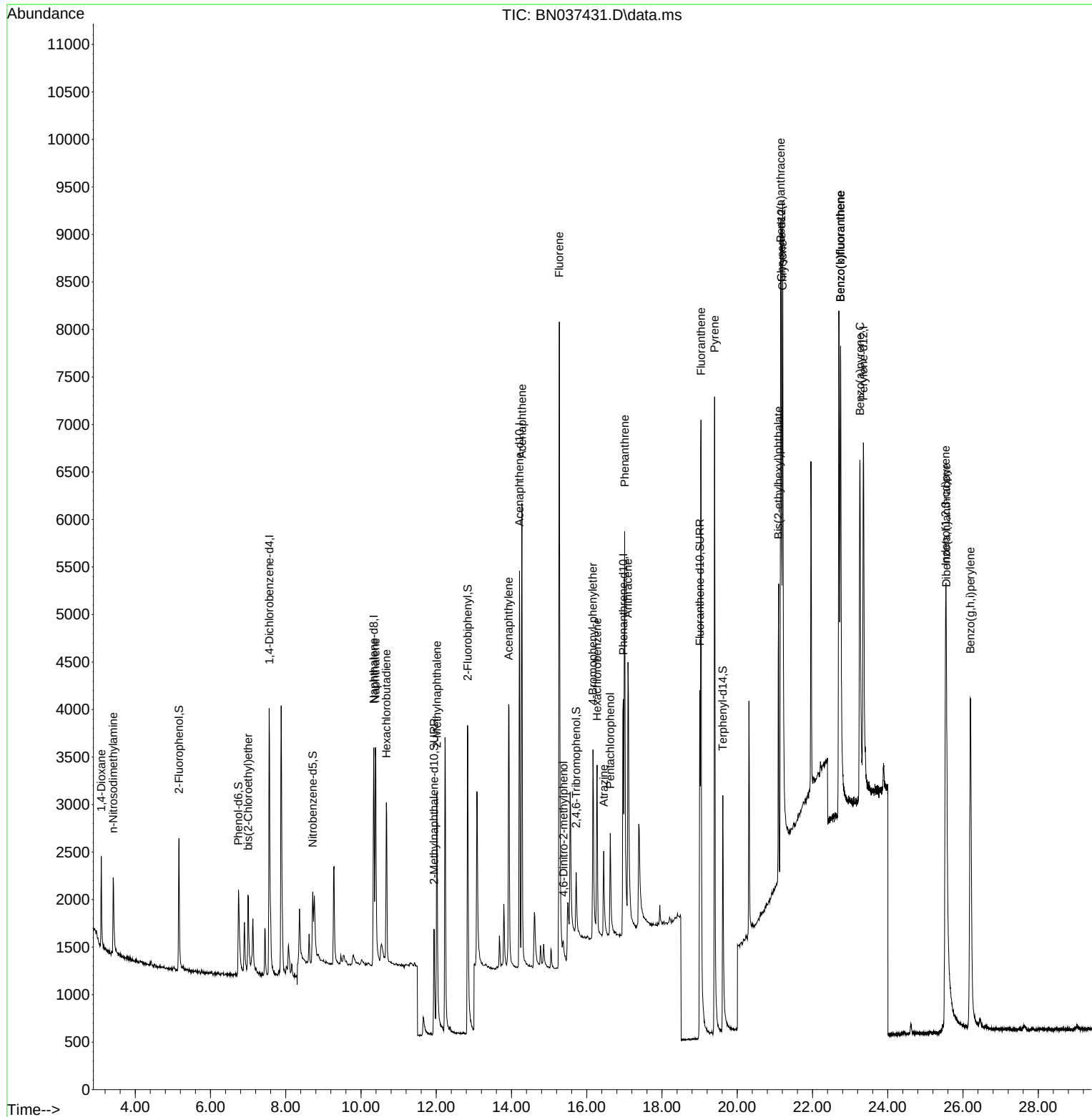
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1682	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3622	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2506	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5228	0.400	ng	# 0.01
29) Chrysene-d12	21.171	240	5147	0.400	ng	0.00
35) Perylene-d12	23.354	264	5618	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1355	0.418	ng	0.00
5) Phenol-d6	6.744	99	1283	0.382	ng	0.00
8) Nitrobenzene-d5	8.717	82	1081	0.372	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2134	0.381	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	577	0.393	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	4161	0.385	ng	0.00
27) Fluoranthene-d10	19.003	212	5908	0.394	ng	0.00
31) Terphenyl-d14	19.616	244	4379	0.399	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	712	0.446	ng	92
3) n-Nitrosodimethylamine	3.415	42	591	0.375	ng	# 85
6) bis(2-Chloroethyl)ether	6.997	93	1069	0.358	ng	93
9) Naphthalene	10.383	128	3612	0.387	ng	98
10) Hexachlorobutadiene	10.671	225	1565	0.423	ng	# 99
12) 2-Methylnaphthalene	12.016	142	2460	0.383	ng	98
16) Acenaphthylene	13.924	152	3879	0.373	ng	99
17) Acenaphthene	14.277	154	2591	0.382	ng	98
18) Fluorene	15.272	166	3645	0.380	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	352	0.262	ng	# 69
21) 4-Bromophenyl-phenylether	16.165	248	1426	0.387	ng	# 94
22) Hexachlorobenzene	16.276	284	1617	0.408	ng	98
23) Atrazine	16.450	200	1136	0.389	ng	94
24) Pentachlorophenol	16.624	266	774	0.361	ng	96
25) Phenanthrene	17.009	178	5527	0.375	ng	99
26) Anthracene	17.095	178	4852	0.358	ng	100
28) Fluoranthene	19.035	202	7451	0.396	ng	99
30) Pyrene	19.398	202	7521	0.386	ng	99
32) Benzo(a)anthracene	21.153	228	5702	0.353	ng	99
33) Chrysene	21.206	228	8055	0.402	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2734	0.427	ng	98
36) Indeno(1,2,3-cd)pyrene	25.538	276	9152	0.386	ng	97
37) Benzo(b)fluoranthene	22.746	252	8339	0.421	ng	94
38) Benzo(k)fluoranthene	22.746	252	8339	0.394	ng	95
39) Benzo(a)pyrene	23.260	252	6760	0.384	ng	# 88
40) Dibenzo(a,h)anthracene	25.555	278	6724	0.370	ng	# 92
41) Benzo(g,h,i)perylene	26.196	276	8608	0.396	ng	98

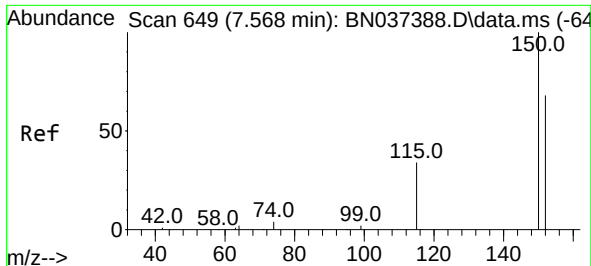
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070225\
Data File : BN037431.D
Acq On : 02 Jul 2025 18:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

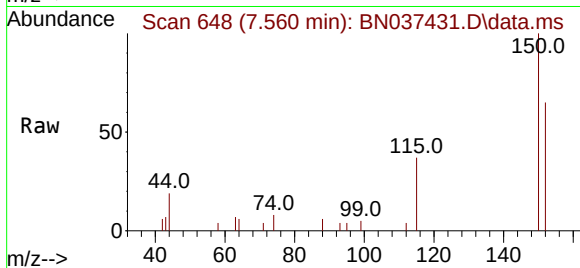
Quant Time: Jul 02 18:25:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



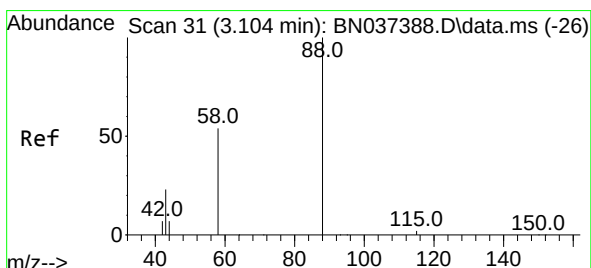
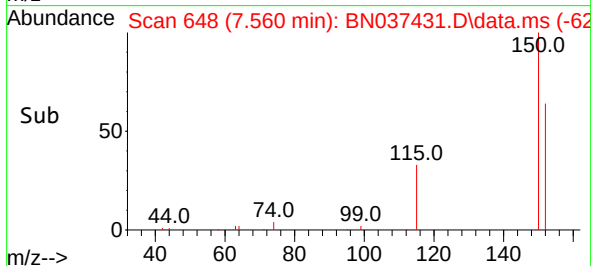
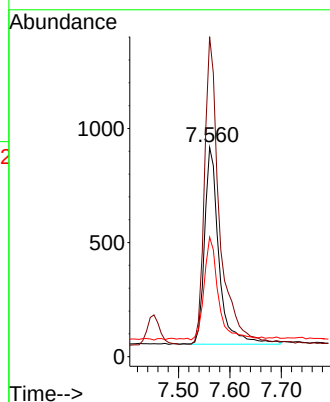


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.560 min Scan# 64
 Delta R.T. -0.008 min
 Lab File: BN037431.D
 Acq: 02 Jul 2025 18:03

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

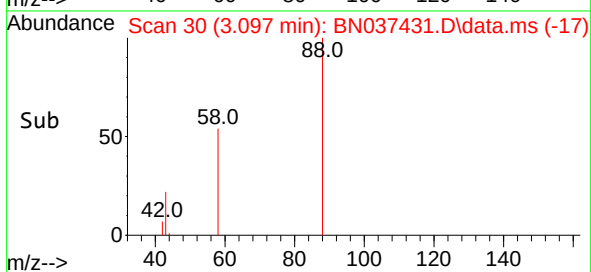
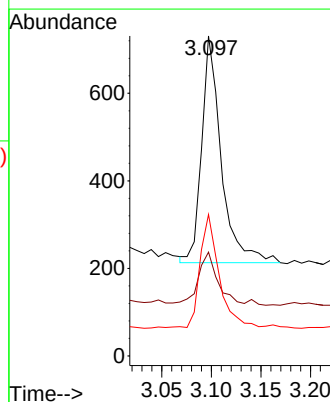
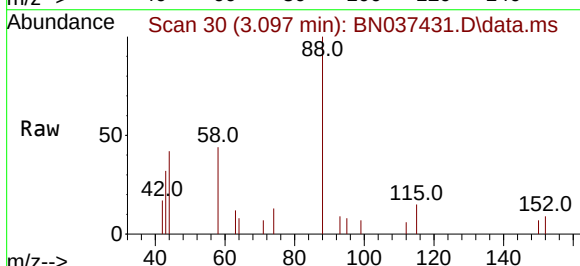


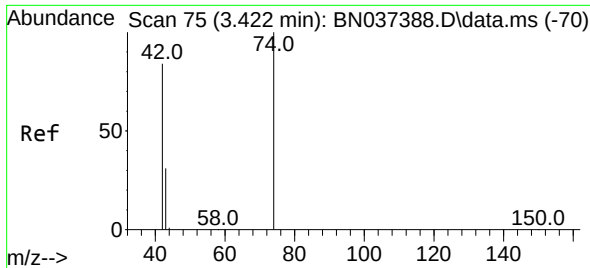
Tgt Ion:152 Resp: 1682
 Ion Ratio Lower Upper
 152 100
 150 152.9 116.2 174.2
 115 57.1 42.9 64.3



#2
 1,4-Dioxane
 Concen: 0.446 ng
 RT: 3.097 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037431.D
 Acq: 02 Jul 2025 18:03

Tgt Ion: 88 Resp: 712
 Ion Ratio Lower Upper
 88 100
 43 24.6 21.6 32.4
 58 50.3 45.9 68.9

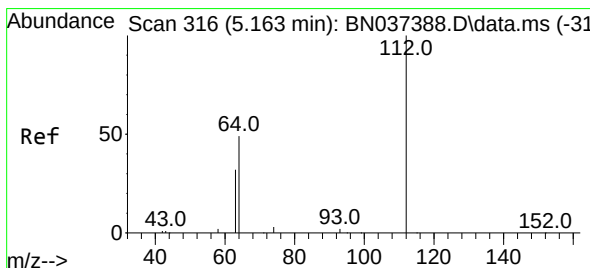
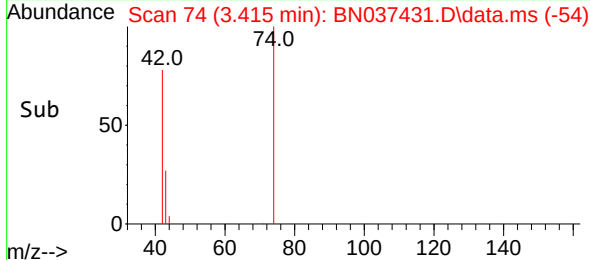
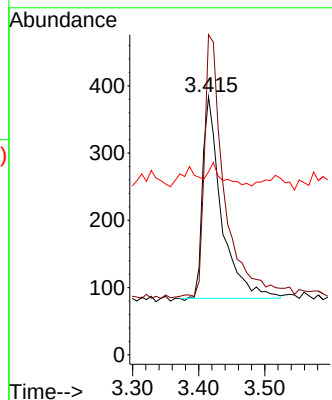
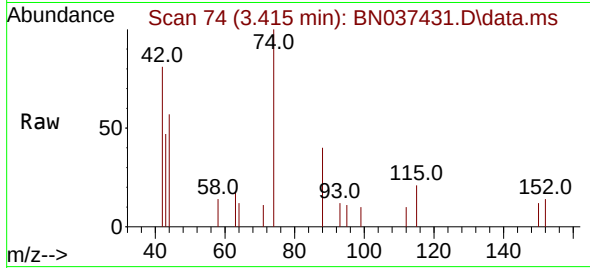




#3
n-Nitrosodimethylamine
Concen: 0.375 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

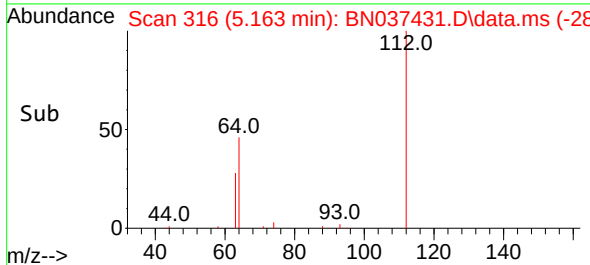
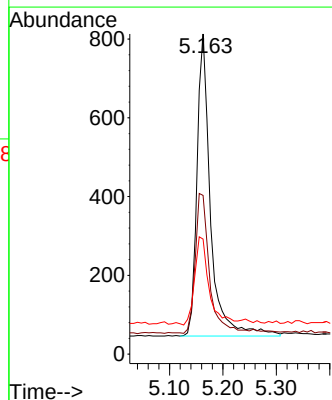
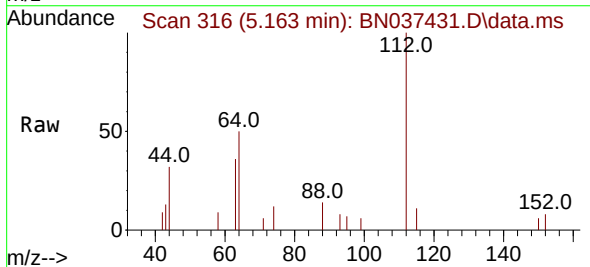
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

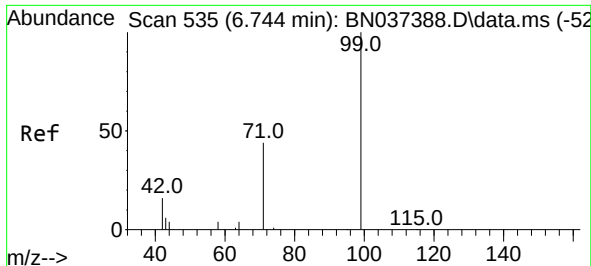
Tgt Ion: 42 Resp: 591
Ion Ratio Lower Upper
42 100
74 140.3 97.8 146.8
44 8.0 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.418 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion: 112 Resp: 1355
Ion Ratio Lower Upper
112 100
64 47.7 40.3 60.5
63 31.3 26.1 39.1

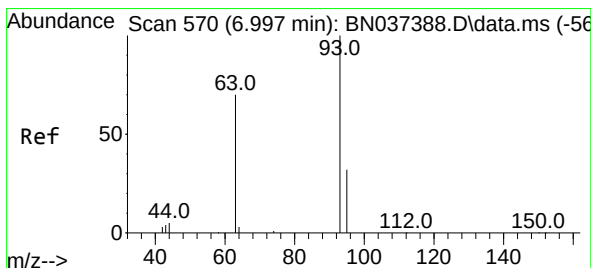
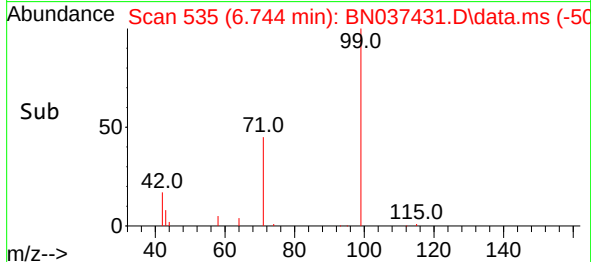
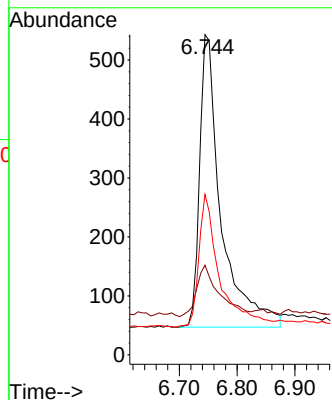
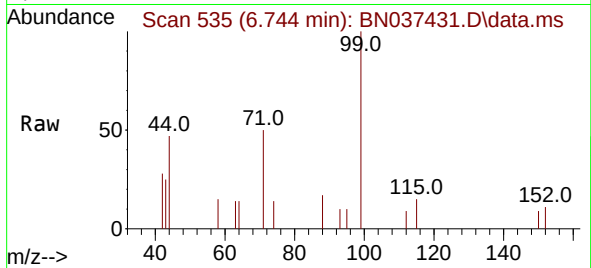




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

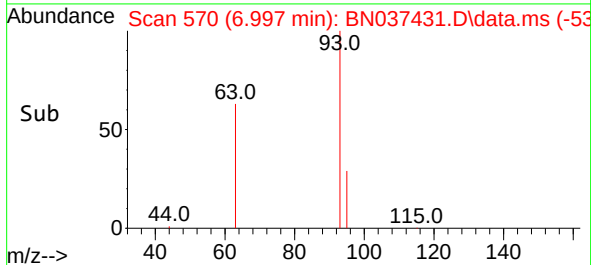
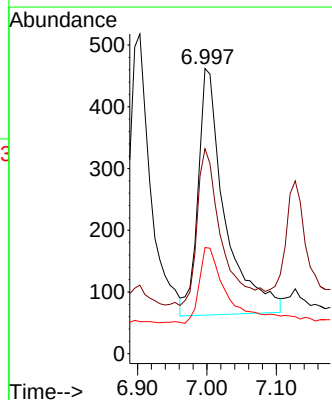
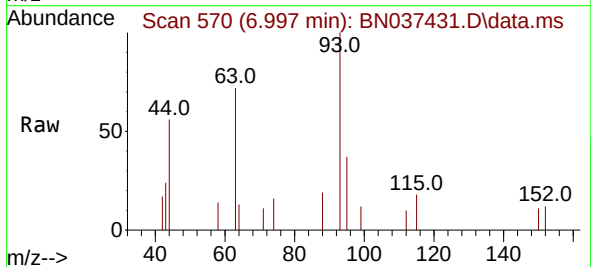
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

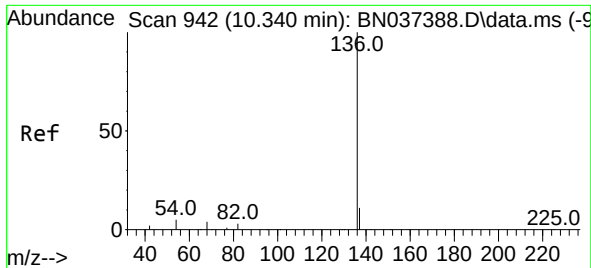
Tgt Ion:	99	Resp:	1283
Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.6	23.4
71	44.3	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.358 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:	93	Resp:	1069
Ion	Ratio	Lower	Upper
93	100		
63	57.5	49.6	74.4
95	34.7	23.9	35.9

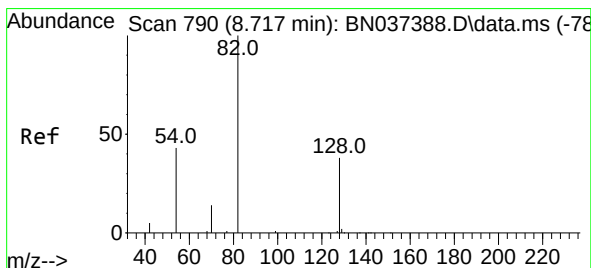
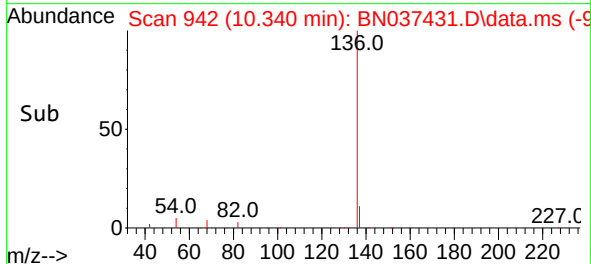
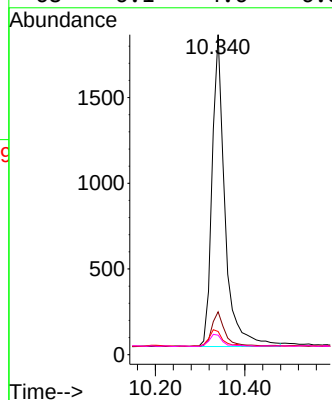
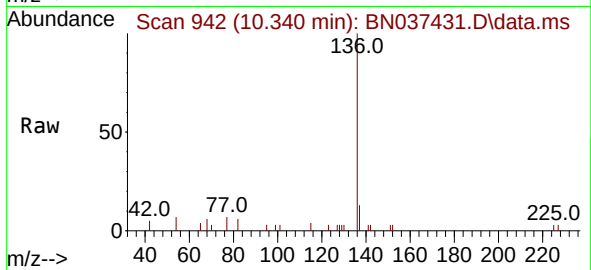




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

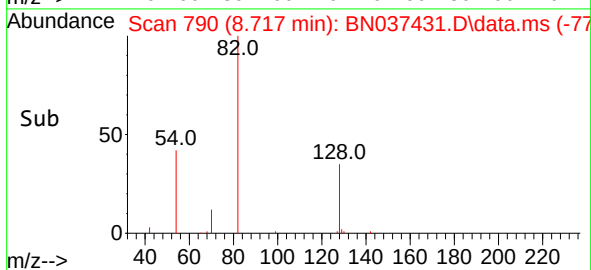
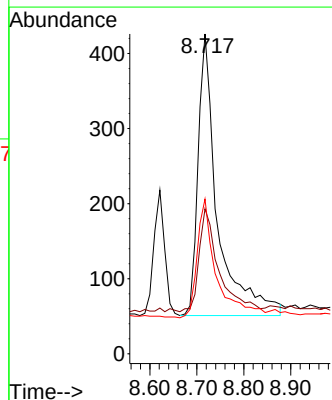
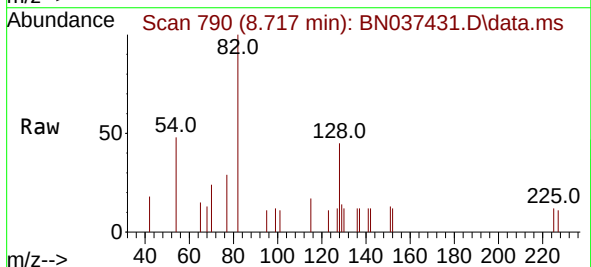
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

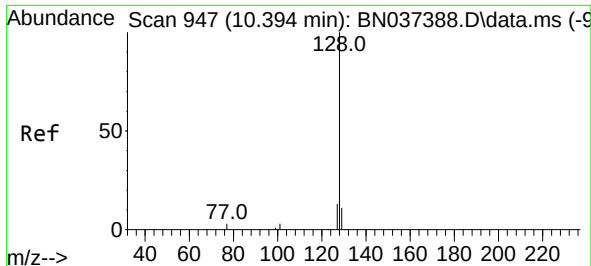
Tgt Ion:	136	Resp:	3622
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.4	15.6
54	7.2	5.6	8.4
68	6.1	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:	82	Resp:	1081
Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.0	51.0
54	48.4	37.7	56.5

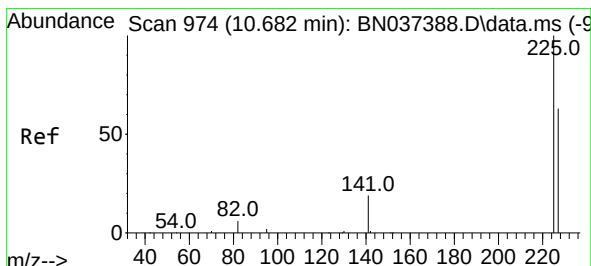
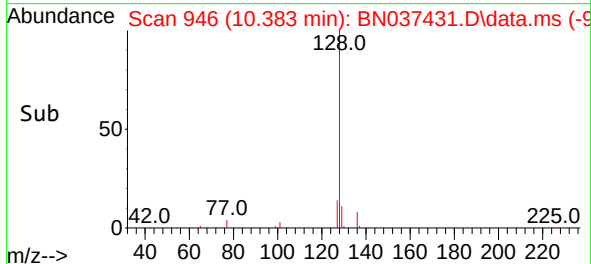
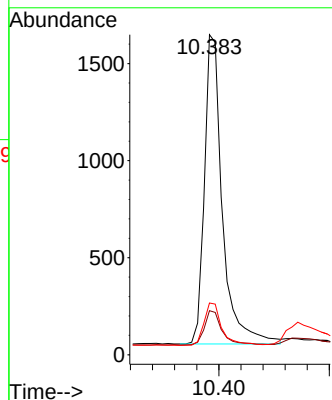
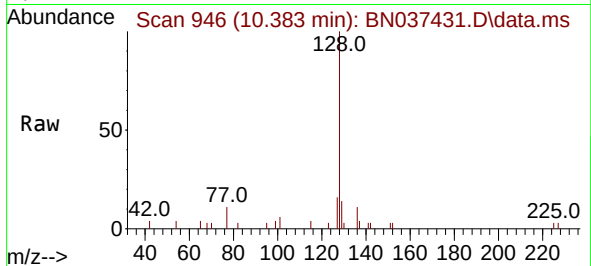




#9
Naphthalene
Concen: 0.387 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

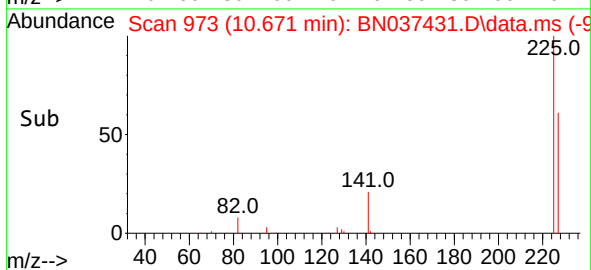
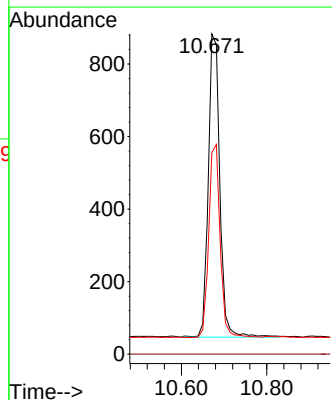
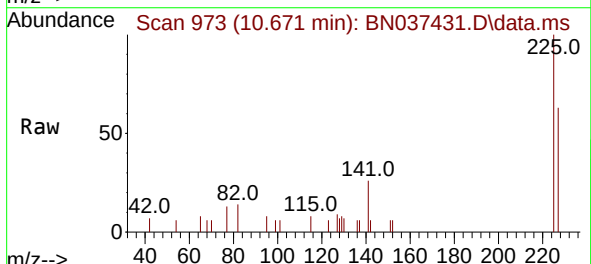
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

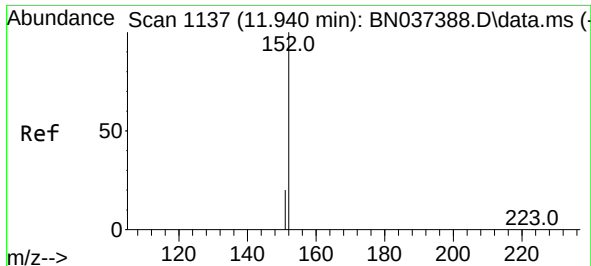
Tgt Ion:128 Resp: 3612
Ion Ratio Lower Upper
128 100
129 13.8 10.4 15.6
127 16.2 12.2 18.4



#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.671 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:225 Resp: 1565
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 49.9 74.9

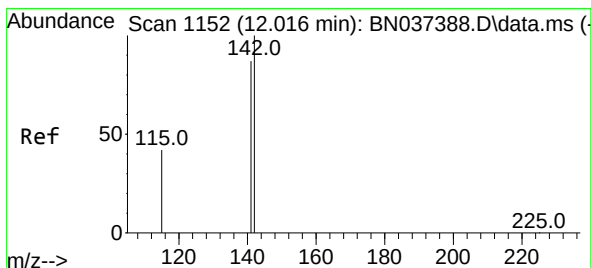
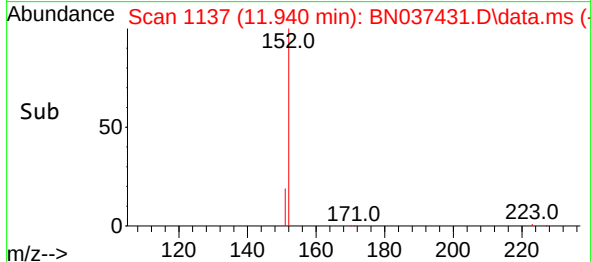
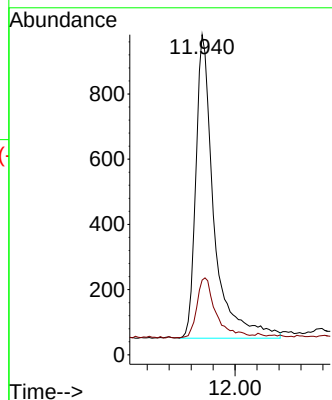
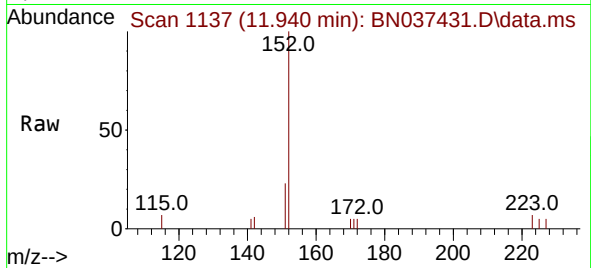




#11
2-Methylnaphthalene-d10
Concen: 0.381 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

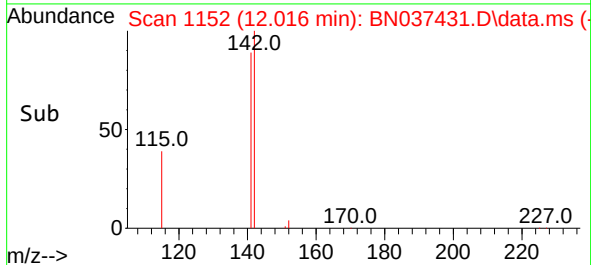
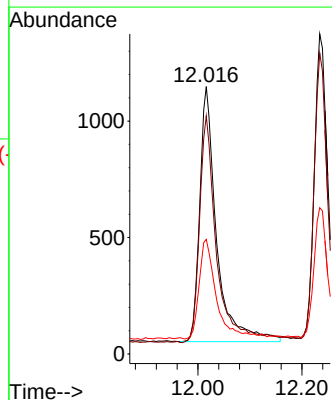
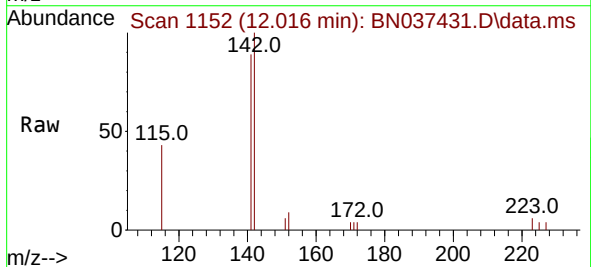
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

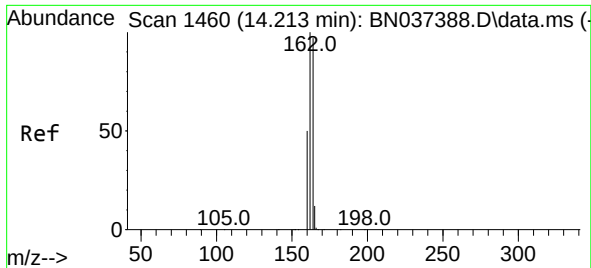
Tgt Ion:152 Resp: 2134
Ion Ratio Lower Upper
152 100
151 20.8 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:142 Resp: 2460
Ion Ratio Lower Upper
142 100
141 89.0 70.1 105.1
115 42.9 35.8 53.6

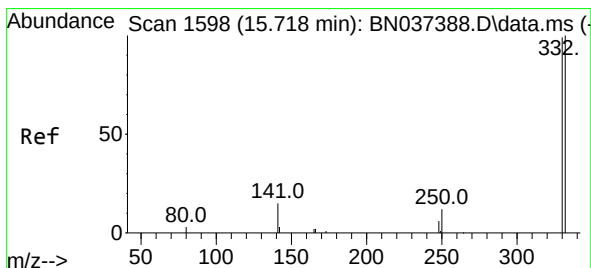
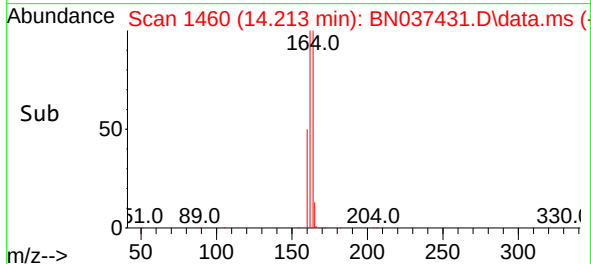
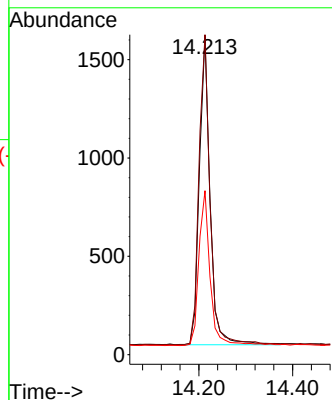
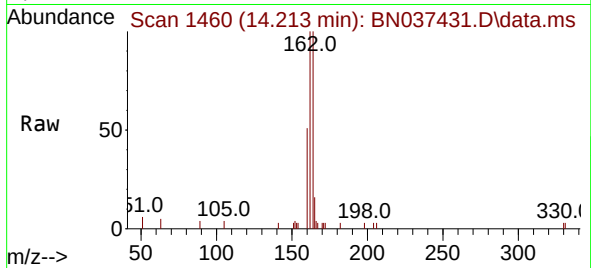




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

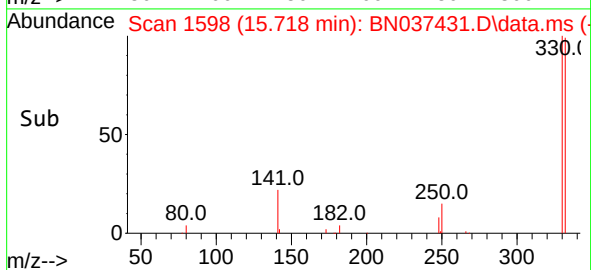
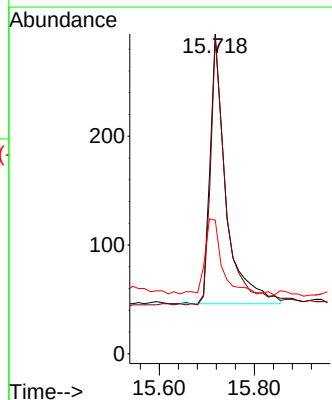
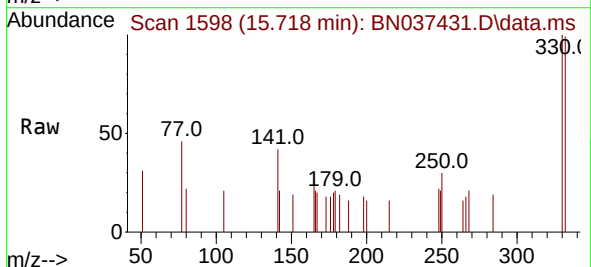
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

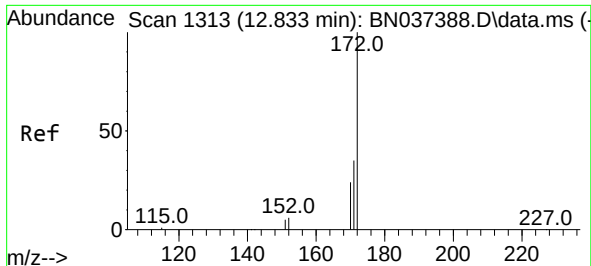
Tgt Ion:164 Resp: 2506
Ion Ratio Lower Upper
164 100
162 100.4 82.6 123.8
160 51.4 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.393 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:330 Resp: 577
Ion Ratio Lower Upper
330 100
332 96.4 77.8 116.8
141 29.6 24.0 36.0

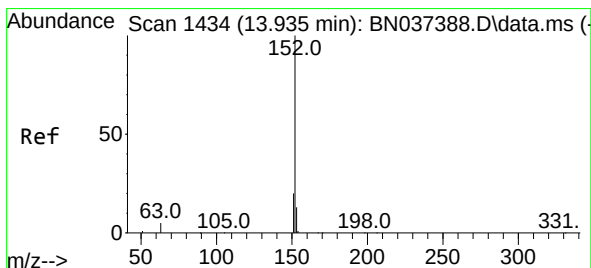
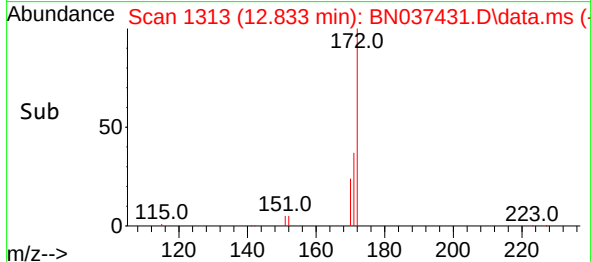
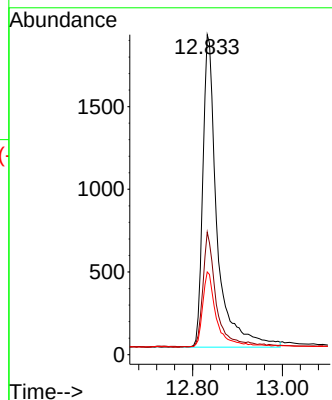
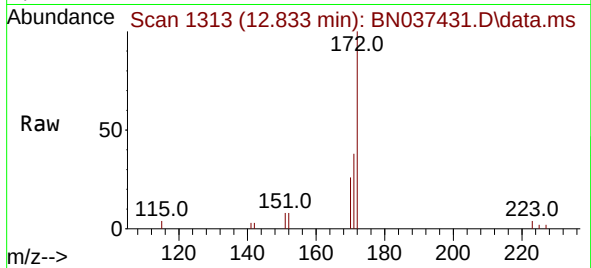




#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

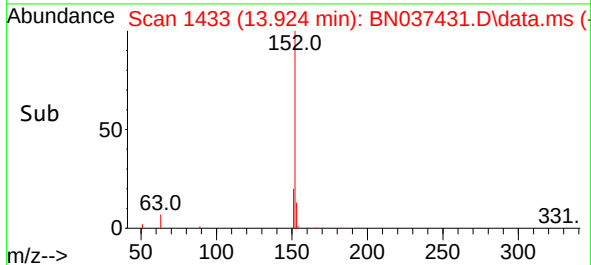
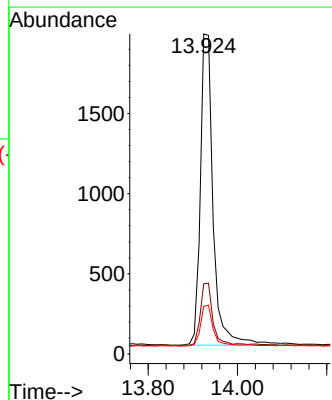
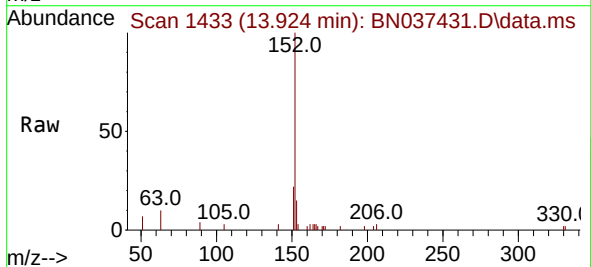
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

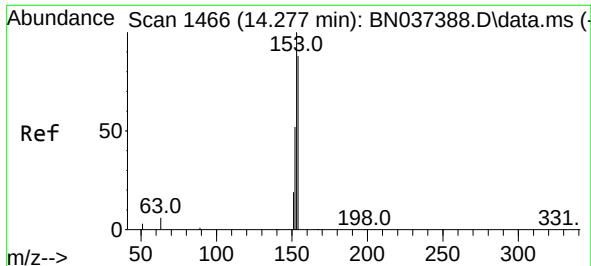
Tgt Ion:172	Resp:	4161
Ion Ratio	Lower	Upper
172	100	
171	38.3	28.8 43.2
170	25.8	20.3 30.5



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:152	Resp:	3879
Ion Ratio	Lower	Upper
152	100	
151	20.3	15.8 23.6
153	13.0	10.3 15.5

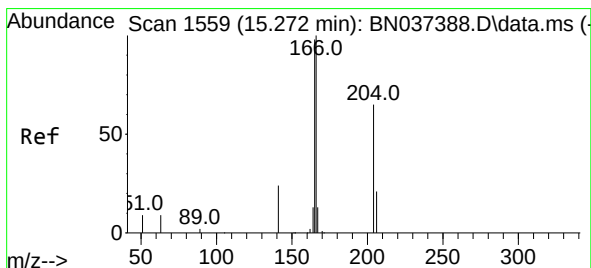
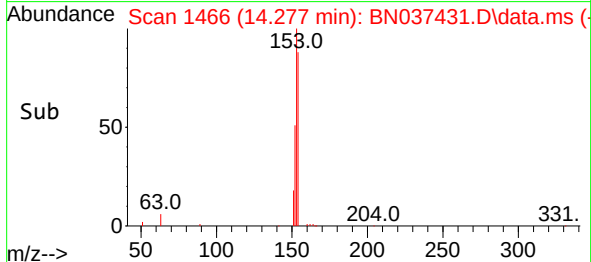
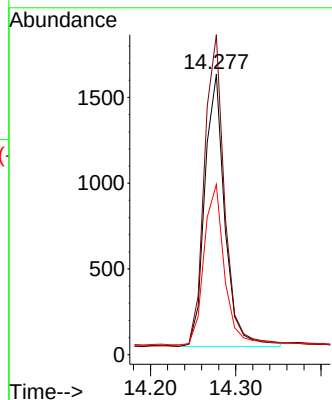
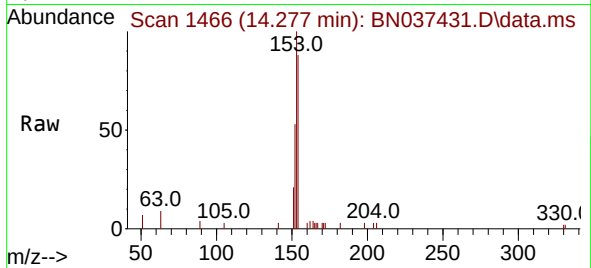




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

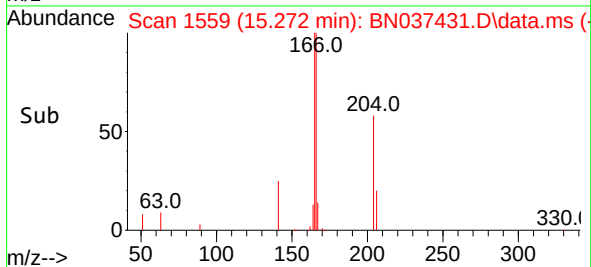
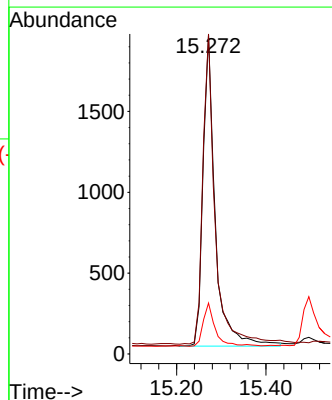
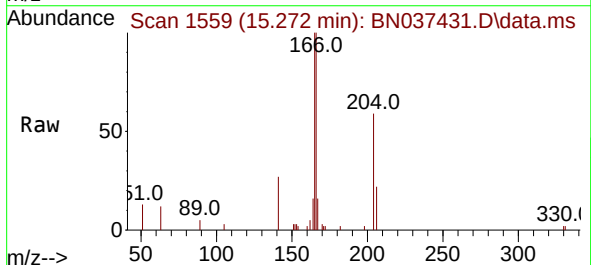
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

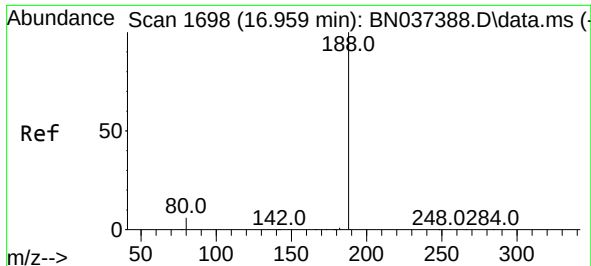
Tgt Ion:154 Resp: 2591
Ion Ratio Lower Upper
154 100
153 116.5 94.6 141.8
152 61.1 50.2 75.2



#18
Fluorene
Concen: 0.380 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:166 Resp: 3645
Ion Ratio Lower Upper
166 100
165 98.6 79.4 119.2
167 13.4 10.6 15.8

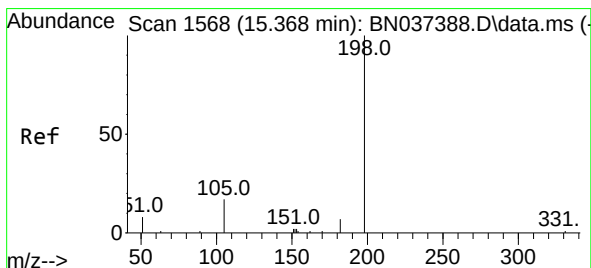
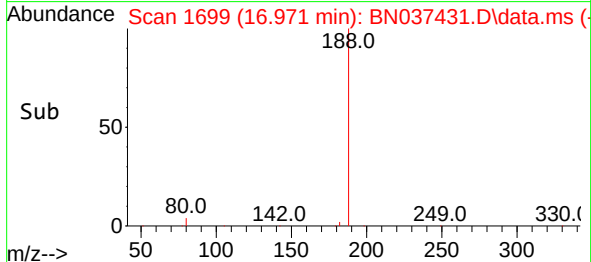
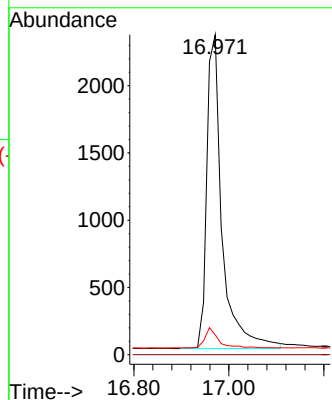
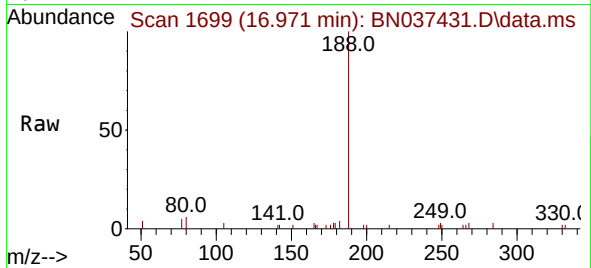




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

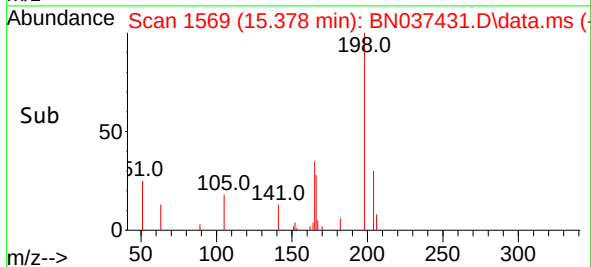
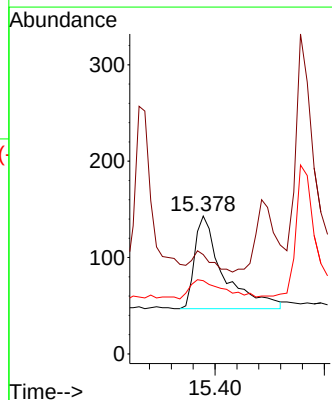
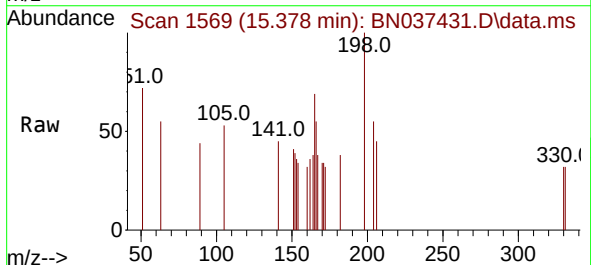
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

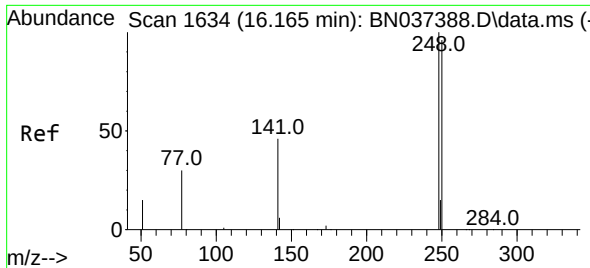
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	6.2	9.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.262 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion	Ratio	Lower	Upper
198	100		
51	72.0	38.8	58.2
105	53.1	29.8	44.6

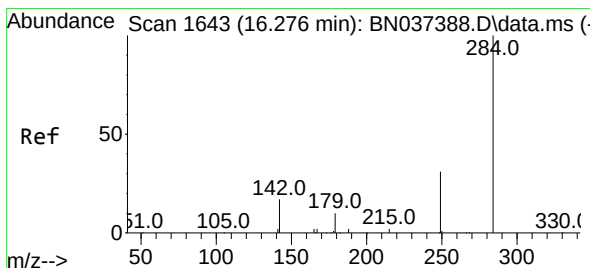
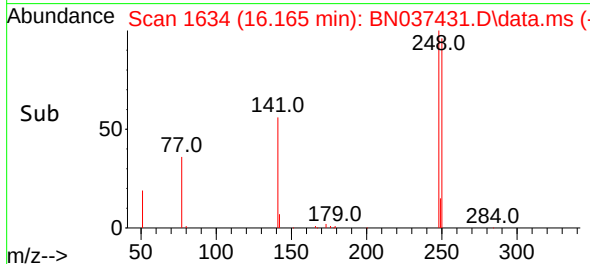
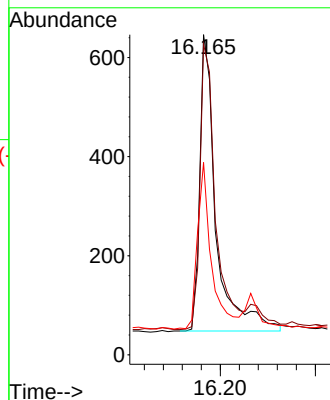
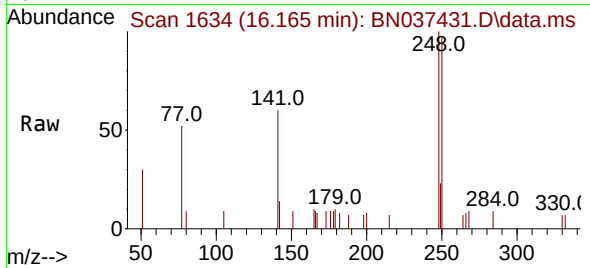




#21
4-Bromophenyl-phenylether
Concen: 0.387 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

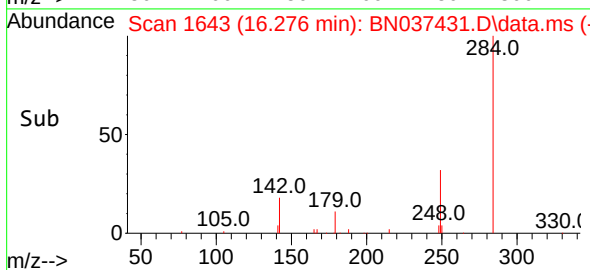
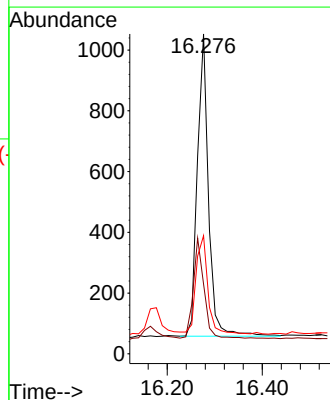
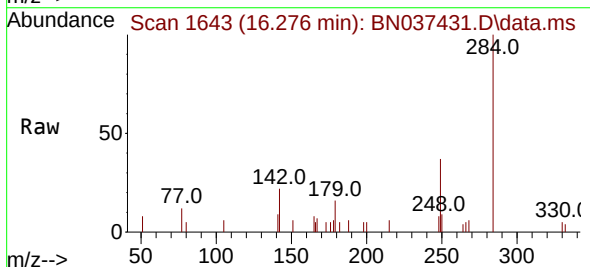
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

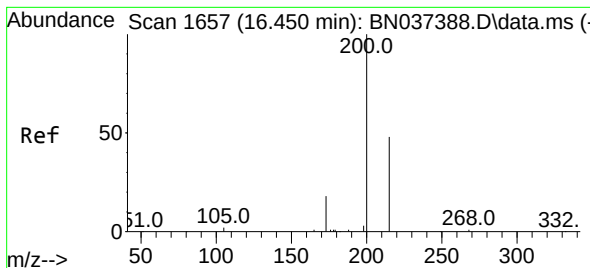
Tgt Ion:248 Resp: 1426
Ion Ratio Lower Upper
248 100
250 97.1 77.0 115.4
141 60.1 38.7 58.1#



#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:284 Resp: 1617
Ion Ratio Lower Upper
284 100
142 32.8 27.2 40.8
249 34.8 26.7 40.1





#23

Atrazine

Concen: 0.389 ng

RT: 16.450 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

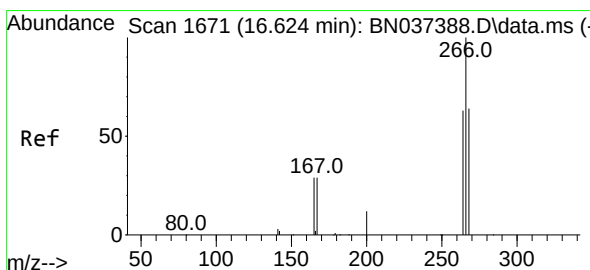
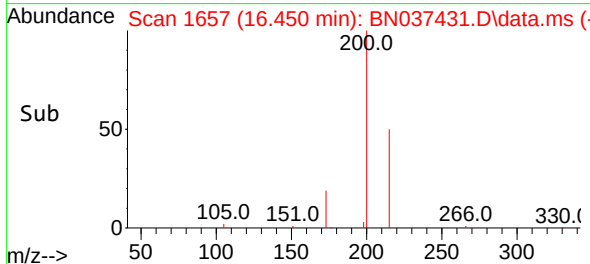
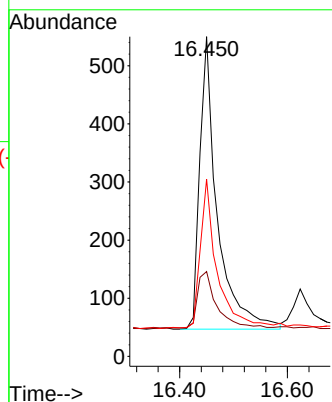
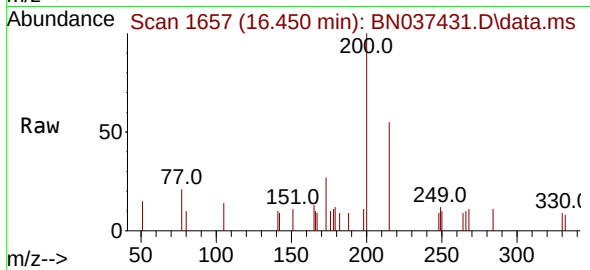
Tgt Ion:200 Resp: 1136

Ion Ratio Lower Upper

200 100

173 26.5 19.0 28.6

215 55.5 41.3 61.9



#24

Pentachlorophenol

Concen: 0.361 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.000 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

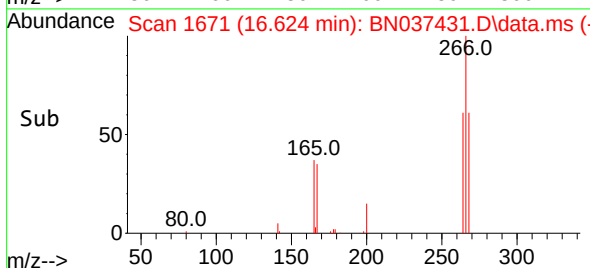
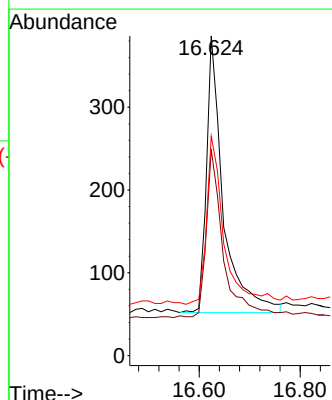
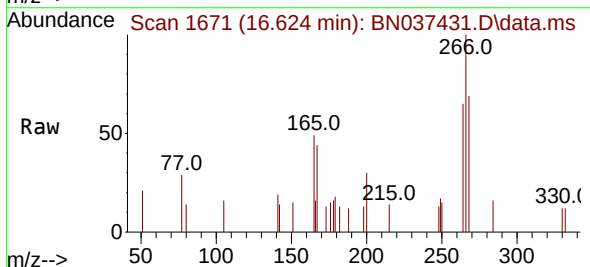
Tgt Ion:266 Resp: 774

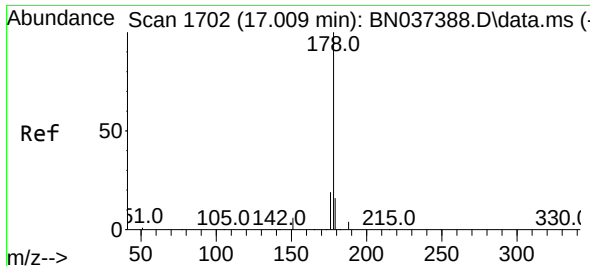
Ion Ratio Lower Upper

266 100

264 63.4 49.2 73.8

268 63.4 54.2 81.4

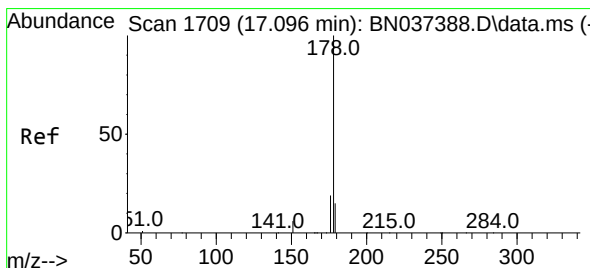
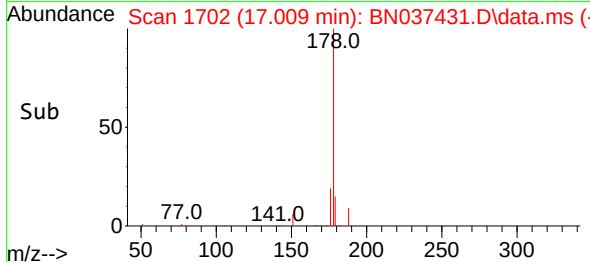
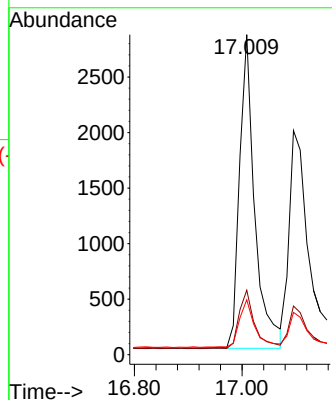
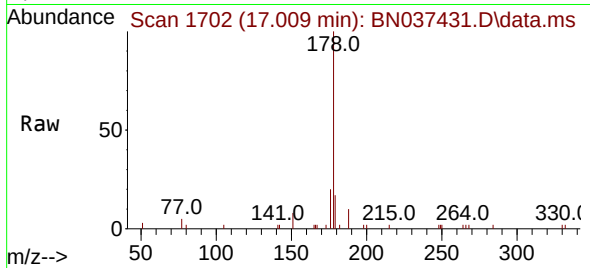




#25
Phenanthrene
Concen: 0.375 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

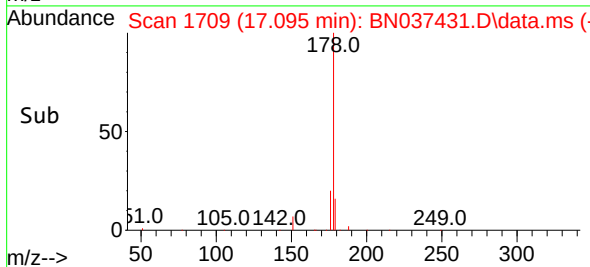
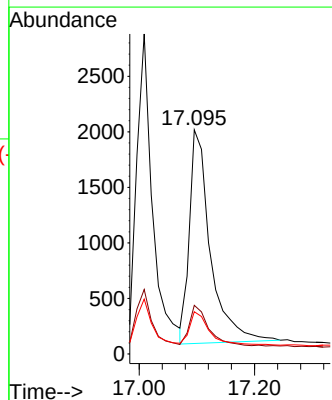
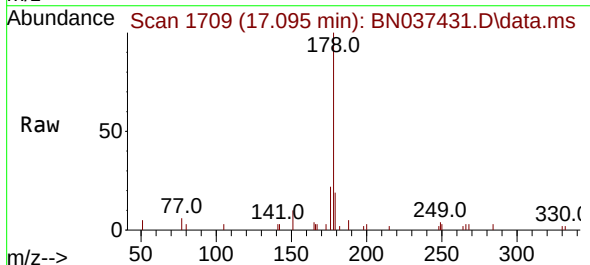
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

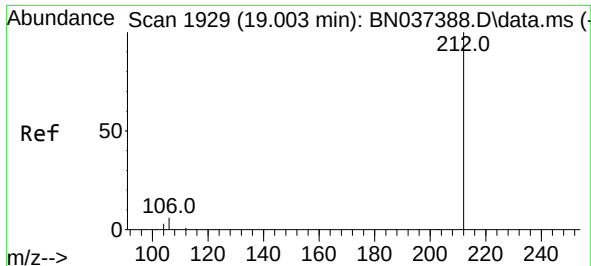
Tgt Ion:	178	Resp:	5527
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.6	23.4
179	15.7	12.8	19.2



#26
Anthracene
Concen: 0.358 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:	178	Resp:	4852
Ion Ratio	Lower	Upper	
178	100		
176	18.4	14.9	22.3
179	15.4	12.4	18.6

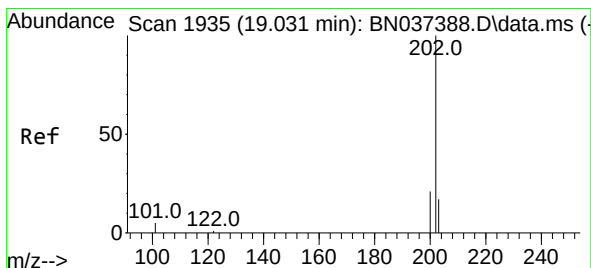
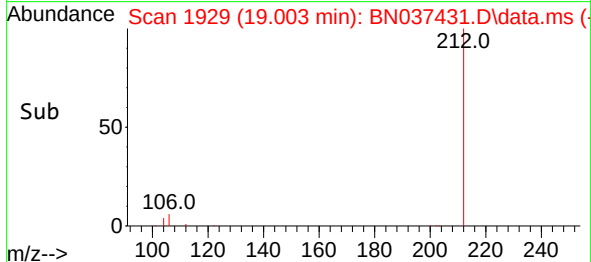
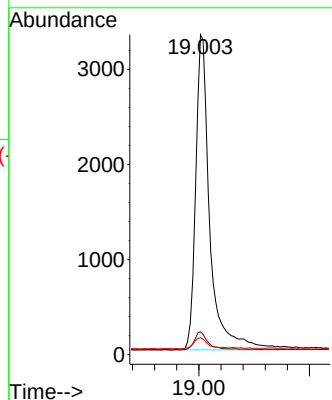
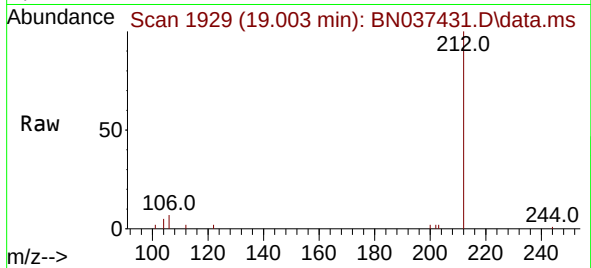




#27
Fluoranthene-d10
Concen: 0.394 ng
RT: 19.003 min Scan# 1929
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

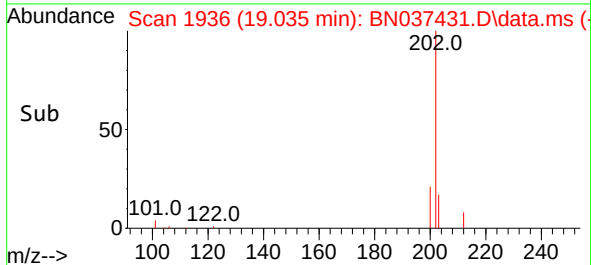
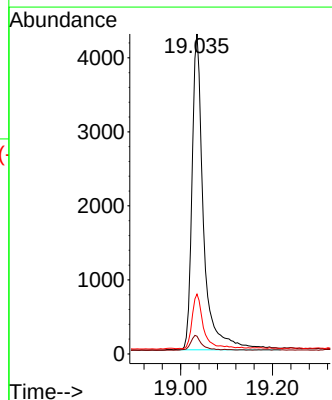
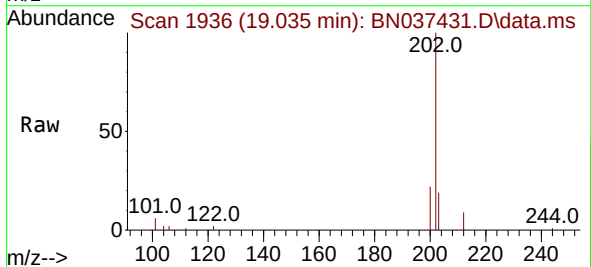
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

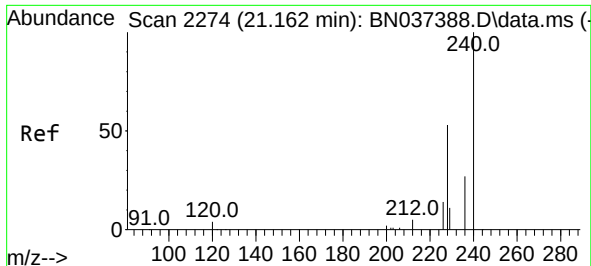
Tgt Ion:212 Resp: 5908
Ion Ratio Lower Upper
212 100
106 5.6 4.5 6.7
104 3.4 2.7 4.1



#28
Fluoranthene
Concen: 0.396 ng
RT: 19.035 min Scan# 1936
Delta R.T. 0.005 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:202 Resp: 7451
Ion Ratio Lower Upper
202 100
101 4.4 3.8 5.6
203 16.7 13.5 20.3

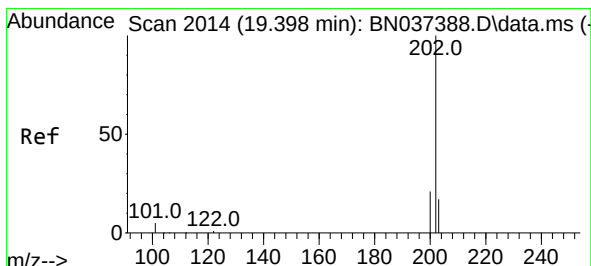
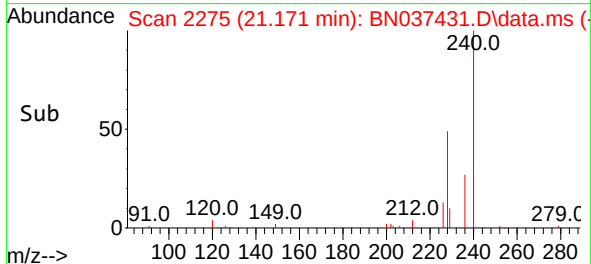
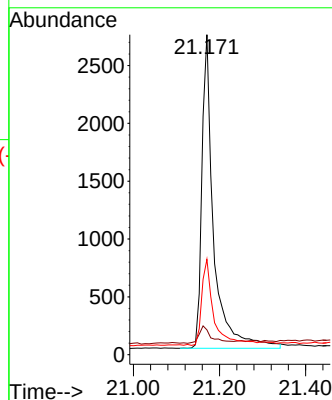
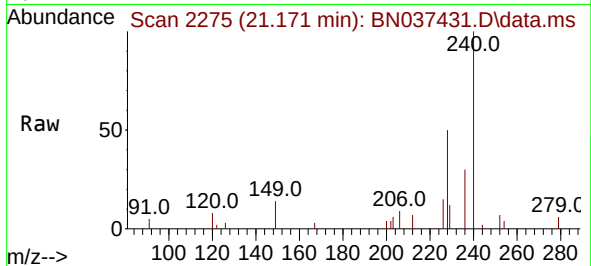




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

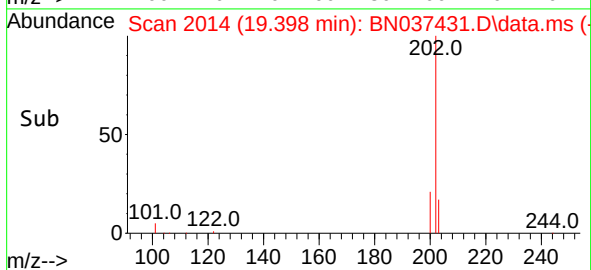
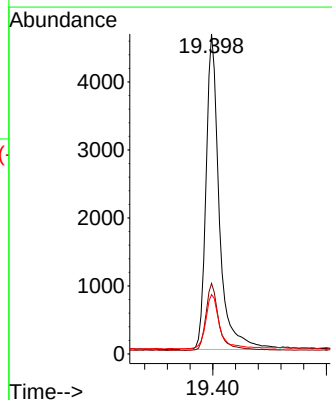
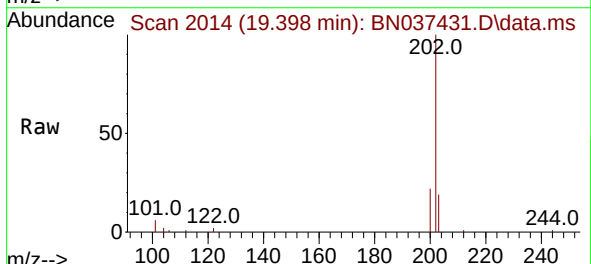
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

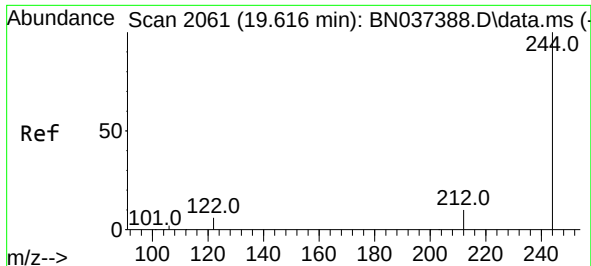
Tgt Ion:240 Resp: 5147
Ion Ratio Lower Upper
240 100
120 7.8 5.3 7.9
236 29.8 22.7 34.1



#30
Pyrene
Concen: 0.386 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:202 Resp: 7521
Ion Ratio Lower Upper
202 100
200 21.1 16.5 24.7
203 18.2 14.2 21.2

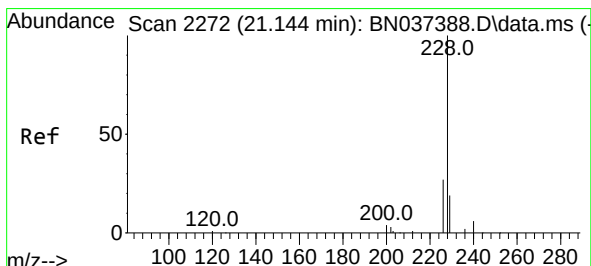
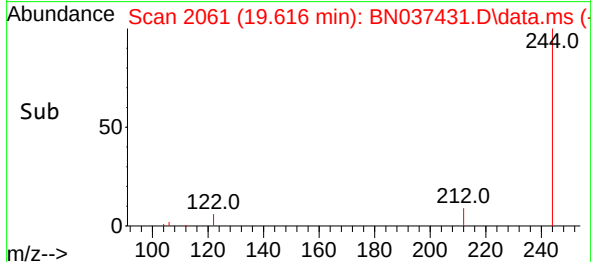
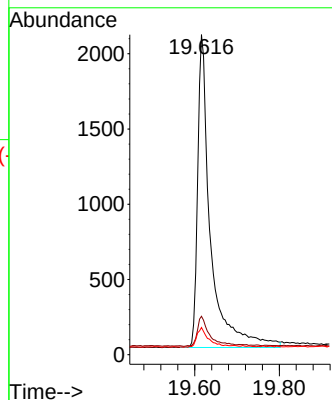
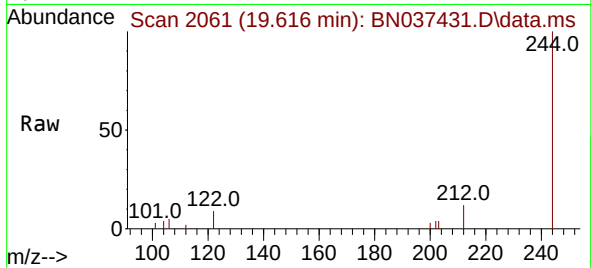




#31
 Terphenyl-d14
 Concen: 0.399 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. -0.000 min
 Lab File: BN037431.D
 Acq: 02 Jul 2025 18:03

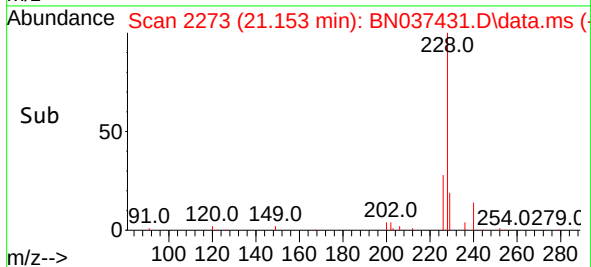
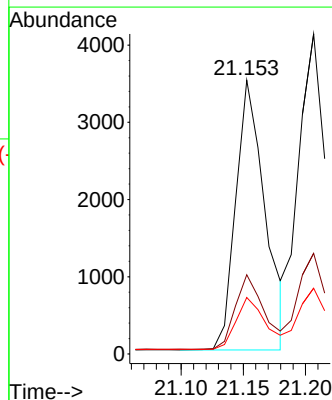
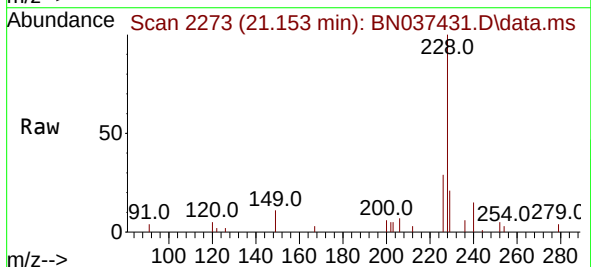
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

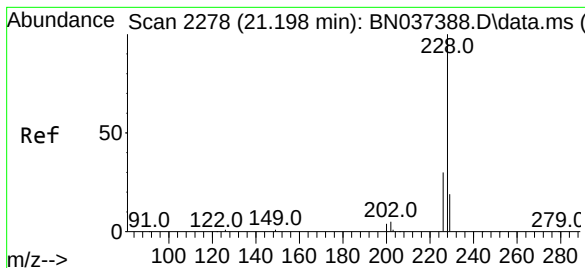
Tgt Ion:244	Resp:	4379	
Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.1	13.7
122	8.5	6.3	9.5



#32
 Benzo(a)anthracene
 Concen: 0.353 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. 0.009 min
 Lab File: BN037431.D
 Acq: 02 Jul 2025 18:03

Tgt	Ion:228	Resp:	5702
Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	34.0
229	20.6	16.2	24.2





#33

Chrysene

Concen: 0.402 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

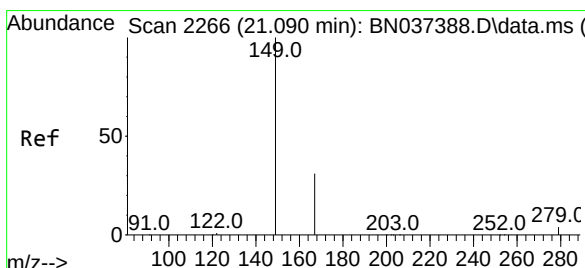
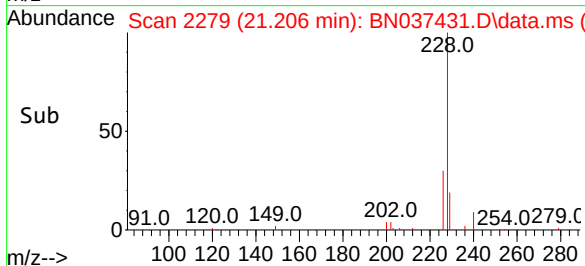
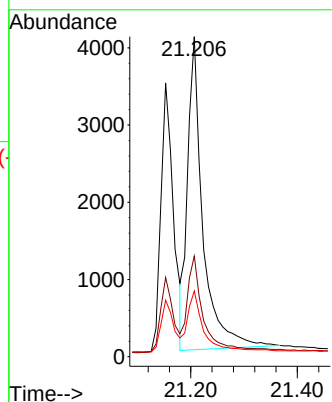
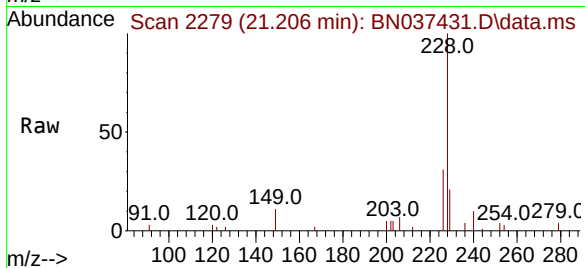
Tgt Ion:228 Resp: 8055

Ion Ratio Lower Upper

228 100

226 31.4 24.5 36.7

229 20.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.427 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.009 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

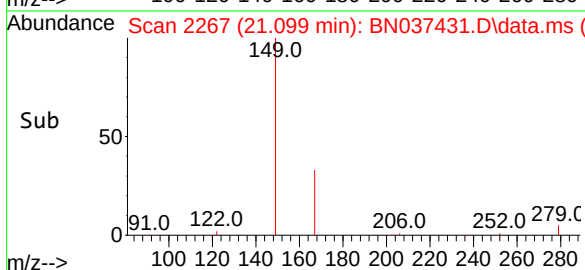
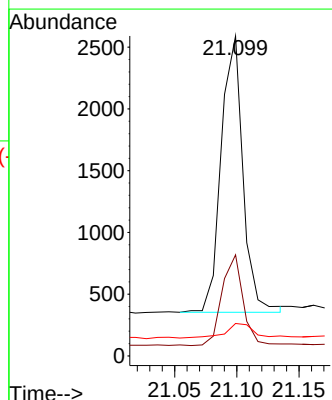
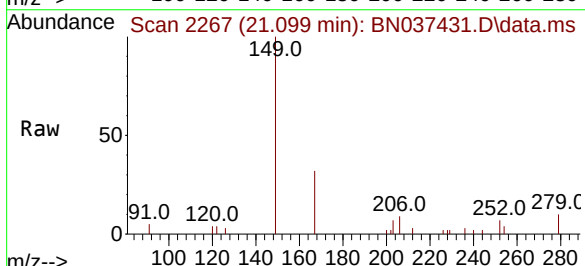
Tgt Ion:149 Resp: 2734

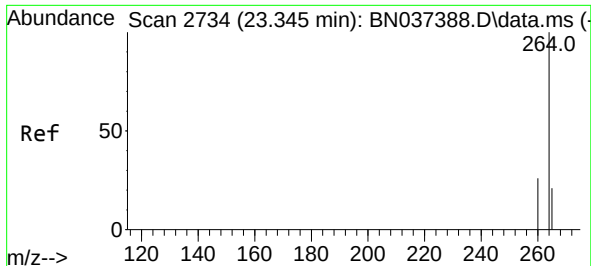
Ion Ratio Lower Upper

149 100

167 32.4 24.8 37.2

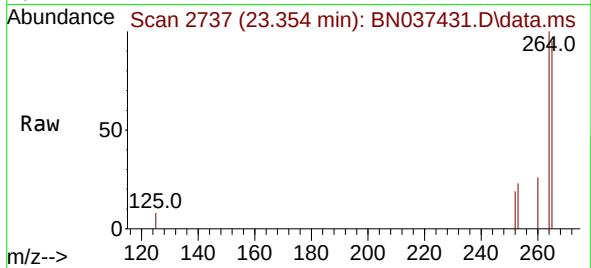
279 7.1 5.0 7.6



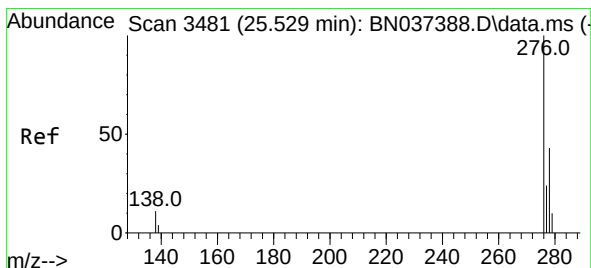
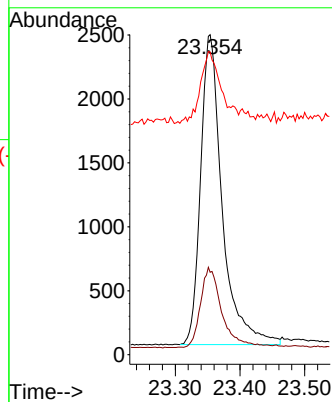
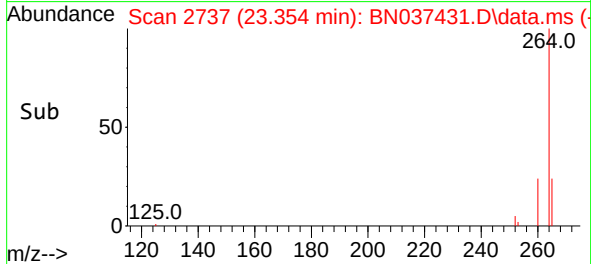


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.354 min Scan# 21
 Delta R.T. 0.009 min
 Lab File: BN037431.D
 Acq: 02 Jul 2025 18:03

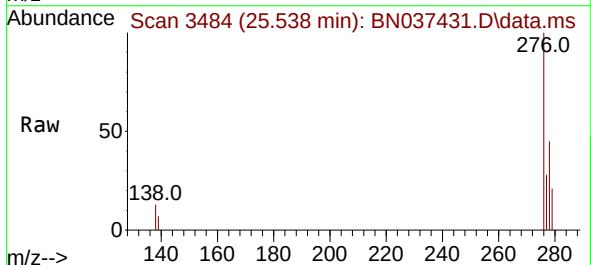
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



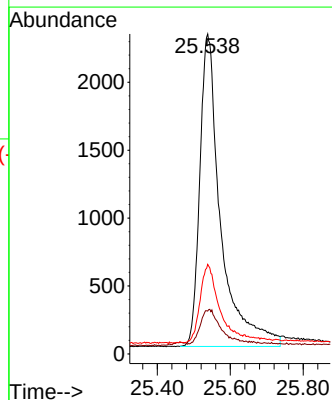
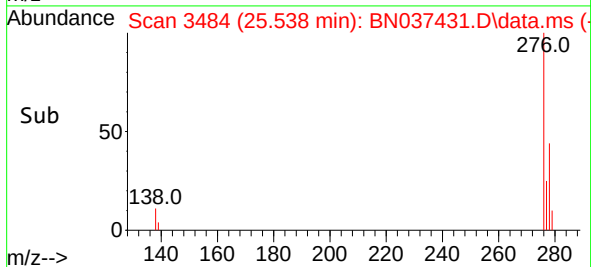
Tgt Ion:264 Resp: 5618
 Ion Ratio Lower Upper
 264 100
 260 25.8 21.4 32.0
 265 94.6 56.2 84.4#

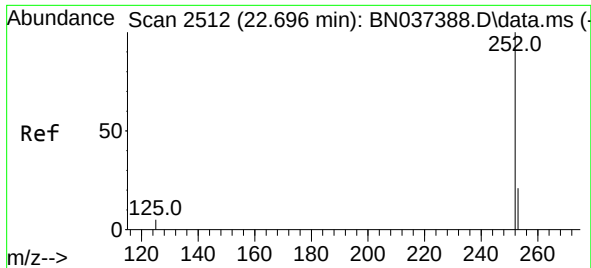


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.386 ng
 RT: 25.538 min Scan# 3484
 Delta R.T. 0.009 min
 Lab File: BN037431.D
 Acq: 02 Jul 2025 18:03



Tgt Ion:276 Resp: 9152
 Ion Ratio Lower Upper
 276 100
 138 10.0 8.5 12.7
 277 22.7 19.7 29.5

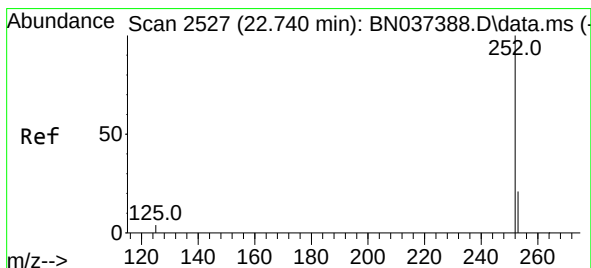
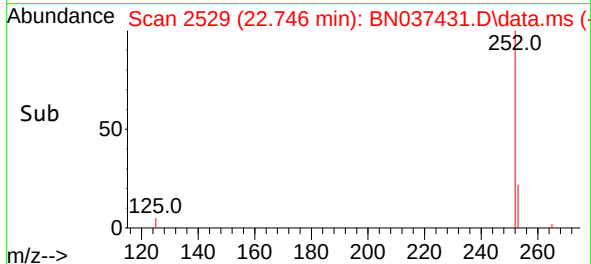
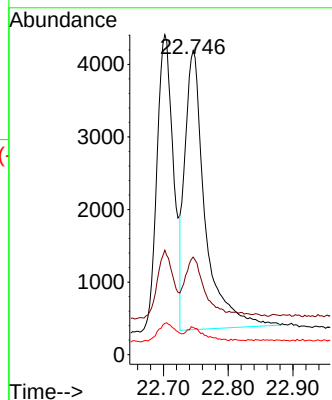
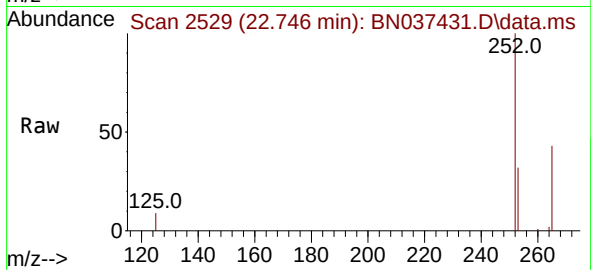




#37
Benzo(b)fluoranthene
Concen: 0.421 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.050 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

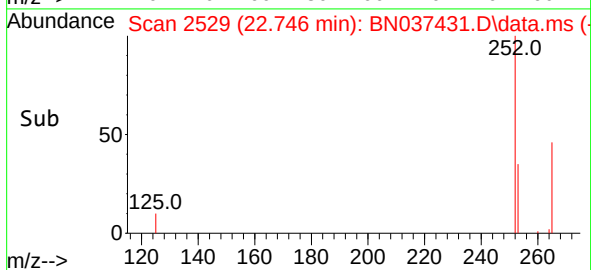
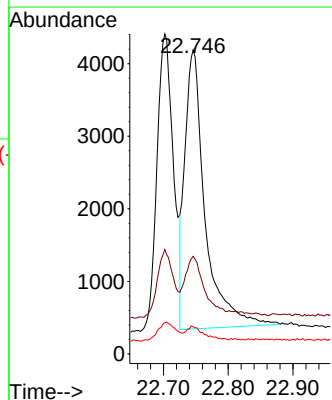
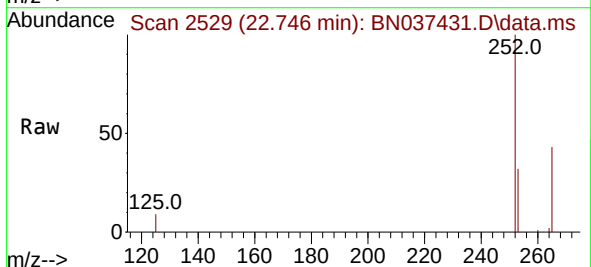
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

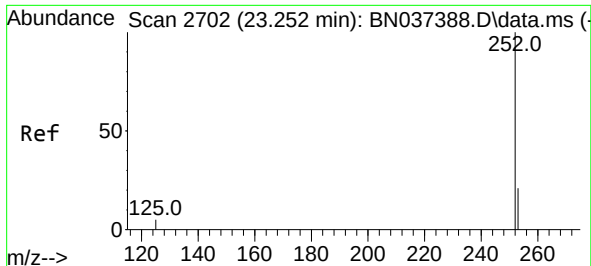
Tgt Ion:252 Resp: 8339
Ion Ratio Lower Upper
252 100
253 32.1 22.8 34.2
125 8.9 6.2 9.4



#38
Benzo(k)fluoranthene
Concen: 0.394 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.006 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Tgt Ion:252 Resp: 8339
Ion Ratio Lower Upper
252 100
253 32.1 23.2 34.8
125 8.9 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.260 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

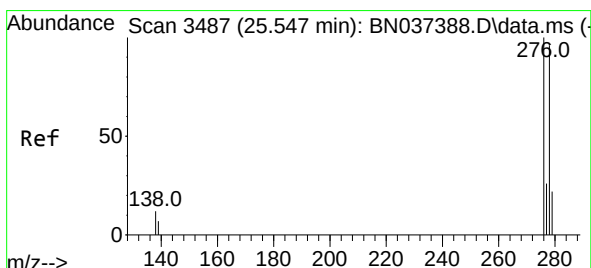
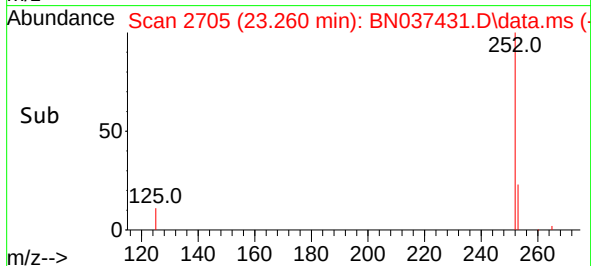
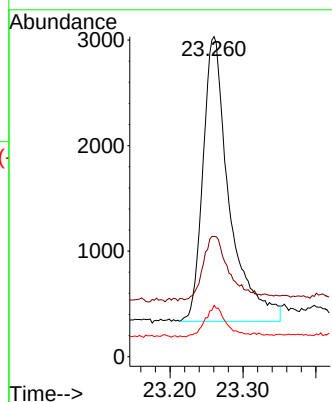
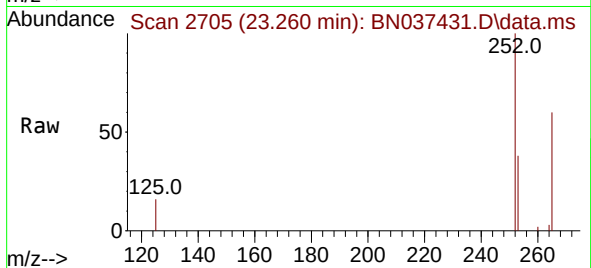
Tgt Ion:252 Resp: 6760

Ion Ratio Lower Upper

252 100

253 37.6 25.6 38.4

125 16.0 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.370 ng

RT: 25.555 min Scan# 3490

Delta R.T. 0.009 min

Lab File: BN037431.D

Acq: 02 Jul 2025 18:03

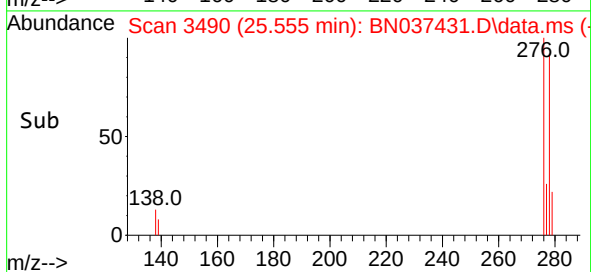
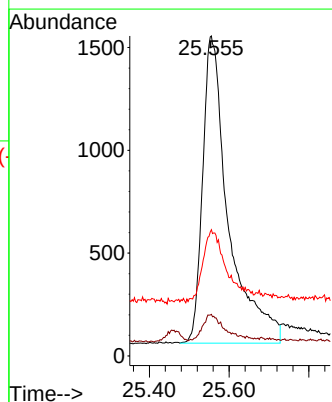
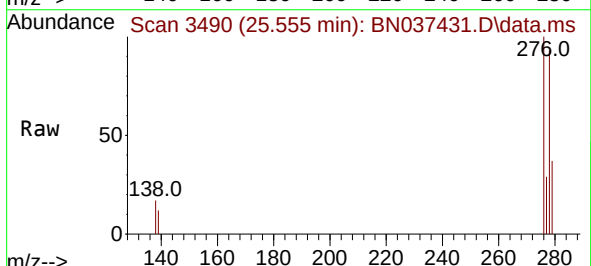
Tgt Ion:278 Resp: 6724

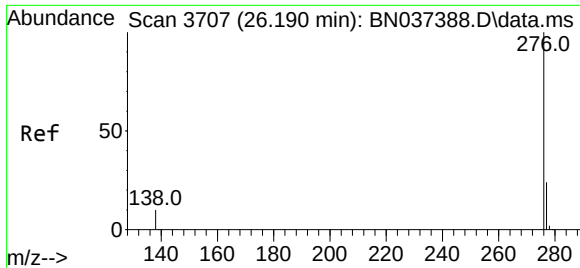
Ion Ratio Lower Upper

278 100

139 13.0 8.5 12.7#

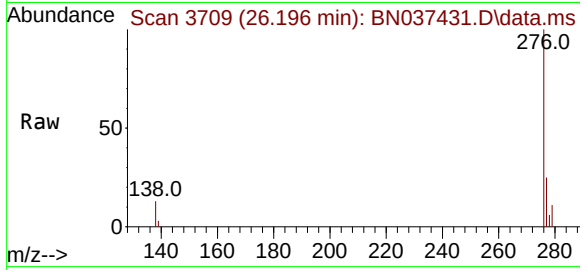
279 39.5 27.5 41.3





#41
Benzo(g,h,i)perylene
Concen: 0.396 ng
RT: 26.196 min Scan# 31
Delta R.T. 0.006 min
Lab File: BN037431.D
Acq: 02 Jul 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:	276	Resp:	8608
Ion	Ratio	Lower	Upper
276	100		
277	25.3	21.0	31.4
138	13.5	9.6	14.4

