

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE - CTO WE13 1132341 WR6

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

ORDER ID : Q2746
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2746

Project ID : NWIRP Bethpage - CTO WE13 1132341 WR6

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2746-01
Q2746-02
Q2746-03

Client Sample Number

RW7-SP100-20250731
RW7-SP201-20250731
RW7-SP303-20250731

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

Signature : _____

Date: 8/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage - CTO WE13 1132341 WR6

Project Manager : Ernie Wu

Order ID # Q2746

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

B. Parameters

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

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The 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 were met for all analysis.

The Internal Standards Areas were met for all analysis except for PB169094BSD, Failed internal standard is not associated with DOD , therefor no further corrective action was taken.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration File ID BN037559.D met the requirements except for 2,4,6-Tribromophenol , Failed surrogate in Continuous Calibration is not associated with DOD, Therefor no further corrective action was taken.

The Tuning criteria met requirements.



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Phone: 908 789 8900 Fax: 908 789 8922

E. Additional Comments:

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

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

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q2746

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements.			
	The Continuous Calibration File ID BN037559.D met the requirements except for 2,4,6-Tribromophenol , Failed surrogate in Continuous Calibration is not associated with DOD, Therefor no further corrective action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries were met for all analysis.			
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 compounds.			
	The Blank Spike Duplicate met requirements for all compounds.			

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

(CONTINUED)

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas were met for all analysis except for PB169094BSD, Failed internal standard is not associated with DOD , therefor no further corrective action was taken.			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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

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

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2746

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 08/07/2025

LAB CHRONICLE

OrderID:	Q2746	OrderDate:	8/1/2025 10:28:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage - CTO WE13 1132341 WR6
Contact:	Ernie Wu	Location:	A43

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2746-01	RW7-SP100-2025073 1	Water			07/31/25			08/01/25
			SVOC-SIMGroup1	8270-Modified		08/04/25	08/05/25	
Q2746-02	RW7-SP201-2025073 1	Water			07/31/25			08/01/25
			SVOC-SIMGroup1	8270-Modified		08/04/25	08/05/25	
Q2746-03	RW7-SP303-2025073 1	Water			07/31/25			08/01/25
			SVOC-SIMGroup1	8270-Modified		08/04/25	08/05/25	



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Hit Summary Sheet SW-846

SDG No.: Q2746

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW7-SP100-20250731							
Q2746-01	RW7-SP100-20250731	WATER	1,4-Dioxane	3.400	0.07	0.2	0.2	ug/L
			Total Svoc :	3.40				
			Total Concentration:	3.40				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2746

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169094BL	PB169094BL	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
PB169094BS	PB169094BS	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.31	77		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
PB169094BSD	PB169094BSD	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.30	75		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.37	92		58	132
Q2746-01	RW7-SP100-20250731	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.44	109		58	132
Q2746-02	RW7-SP201-20250731	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.47	116		58	132
Q2746-03	RW7-SP303-20250731	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.44	109		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2746

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037566.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	
								Qual		High	RPD
PB169094BS	1,4-Dioxane	0.4	0.31	ug/L	78				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2746

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037567.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169094BSD	1,4-Dioxane	0.4	0.29	ug/L	73	7			70	130		20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169094BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2746

Lab File ID: BN037560.D

Lab Sample ID: PB169094BL

Instrument ID: BNA_N

Date Extracted: 08/04/2025

Matrix: (soil/water) Water

Date Analyzed: 08/05/2025

Level: (low/med) LOW

Time Analyzed: 10:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169094BS	PB169094BS	BN037566.D	08/05/2025
RW7-SP100-20250731	Q2746-01	BN037563.D	08/05/2025
RW7-SP201-20250731	Q2746-02	BN037564.D	08/05/2025
RW7-SP303-20250731	Q2746-03	BN037565.D	08/05/2025
PB169094BSD	PB169094BSD	BN037567.D	08/05/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037497.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2746
DFTPP Injection Date: 07/15/2025
DFTPP Injection Time: 10:57

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
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	6.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	83.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.4 (19.4) 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	BN037499.D	07/15/2025	12:36
SSTDICC0.2	SSTDICC0.2	BN037500.D	07/15/2025	13:12
SSTDICCC0.4	SSTDICCC0.4	BN037501.D	07/15/2025	13:49
SSTDICC0.8	SSTDICC0.8	BN037502.D	07/15/2025	14:25
SSTDICC1.6	SSTDICC1.6	BN037503.D	07/15/2025	15:01
SSTDICC3.2	SSTDICC3.2	BN037504.D	07/15/2025	15:38
SSTDICC5.0	SSTDICC5.0	BN037505.D	07/15/2025	16:14



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037558.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2746
DFTPP Injection Date: 08/05/2025
DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (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
441	Present, but less than mass 443	90.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.5 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037559.D	08/05/2025	09:35
PB169094BL	PB169094BL	BN037560.D	08/05/2025	10:11
RW7-SP100-20250731	Q2746-01	BN037563.D	08/05/2025	11:59
RW7-SP201-20250731	Q2746-02	BN037564.D	08/05/2025	12:35
RW7-SP303-20250731	Q2746-03	BN037565.D	08/05/2025	13:11
PB169094BS	PB169094BS	BN037566.D	08/05/2025	13:47
PB169094BSD	PB169094BSD	BN037567.D	08/05/2025	14:23
SSTDCCC0.4EC	SSTDCCC0.4	BN037568.D	08/05/2025	15:03

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2746

Client ID : SSTDCCC0.4

Date Analyzed: 08/05/2025

Lab File ID: BN037559.D

Time Analyzed: 09:35

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	2357	7.717	6191	10.50	3180	14.35
UPPER LIMIT	4714	8.217	12382	10.998	6360	14.845
LOWER LIMIT	1178.5	7.217	3095.5	9.998	1590	13.845
EPA SAMPLE NO.						
01 PB169094BL	2263	7.72	5525	10.50	2603	14.35
02 RW7-SP100-20250731	1609	7.72	3989	10.50	1937	14.35
03 PB169094BS	1587	7.72	3862	10.50	1765	14.35
04 PB169094BSD	1690	7.72	4042	10.50	1850	14.35
05 RW7-SP201-20250731	1663	7.72	4045	10.50	2018	14.35
06 RW7-SP303-20250731	1563	7.72	3777	10.50	1847	14.35

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: Alliance

Lab Code: ACE

SDG NO.: Q2746

Client ID: SSTDCCC0.4

Date Analyzed: 08/05/2025

Lab File ID: BN037559.D

Time Analyzed: 09:35

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	5684	17.086	4703	21.268	3993	23.505
UPPER LIMIT	11368	17.586	9406	21.768	7986	24.005
LOWER LIMIT	2842	16.586	2351.5	20.768	1996.5	23.005
EPA SAMPLE NO.						
01 PB169094BL	4745	17.09	3478	21.28	3099	23.51
02 RW7-SP100-20250731	3786	17.09	3070	21.27	2628	23.51
03 PB169094BS	3214	17.09	2404	21.27	2051	23.51
04 PB169094BSD	3303	17.09	2343 *	21.27	2004	23.51
05 RW7-SP201-20250731	3888	17.09	3048	21.27	2566	23.51
06 RW7-SP303-20250731	3668	17.09	3062	21.28	2537	23.51

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:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW7-SP100-20250731	SDG No.:	Q2746
Lab Sample ID:	Q2746-01	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
BN037563.D	1	08/04/25 08:40	08/05/25 11:59	PB169094

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		109%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1610	7.717				
1146-65-2	Naphthalene-d8	3990	10.498				
15067-26-2	Acenaphthene-d10	1940	14.345				
1517-22-2	Phenanthrene-d10	3790	17.086				
1719-03-5	Chrysene-d12	3070	21.268				
1520-96-3	Perylene-d12	2630	23.507				

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\BN080525\
Data File : BN037563.D
Acq On : 05 Aug 2025 11:59
Operator : RC/JU
Sample : Q2746-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

Quant Time: Aug 06 01:38:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

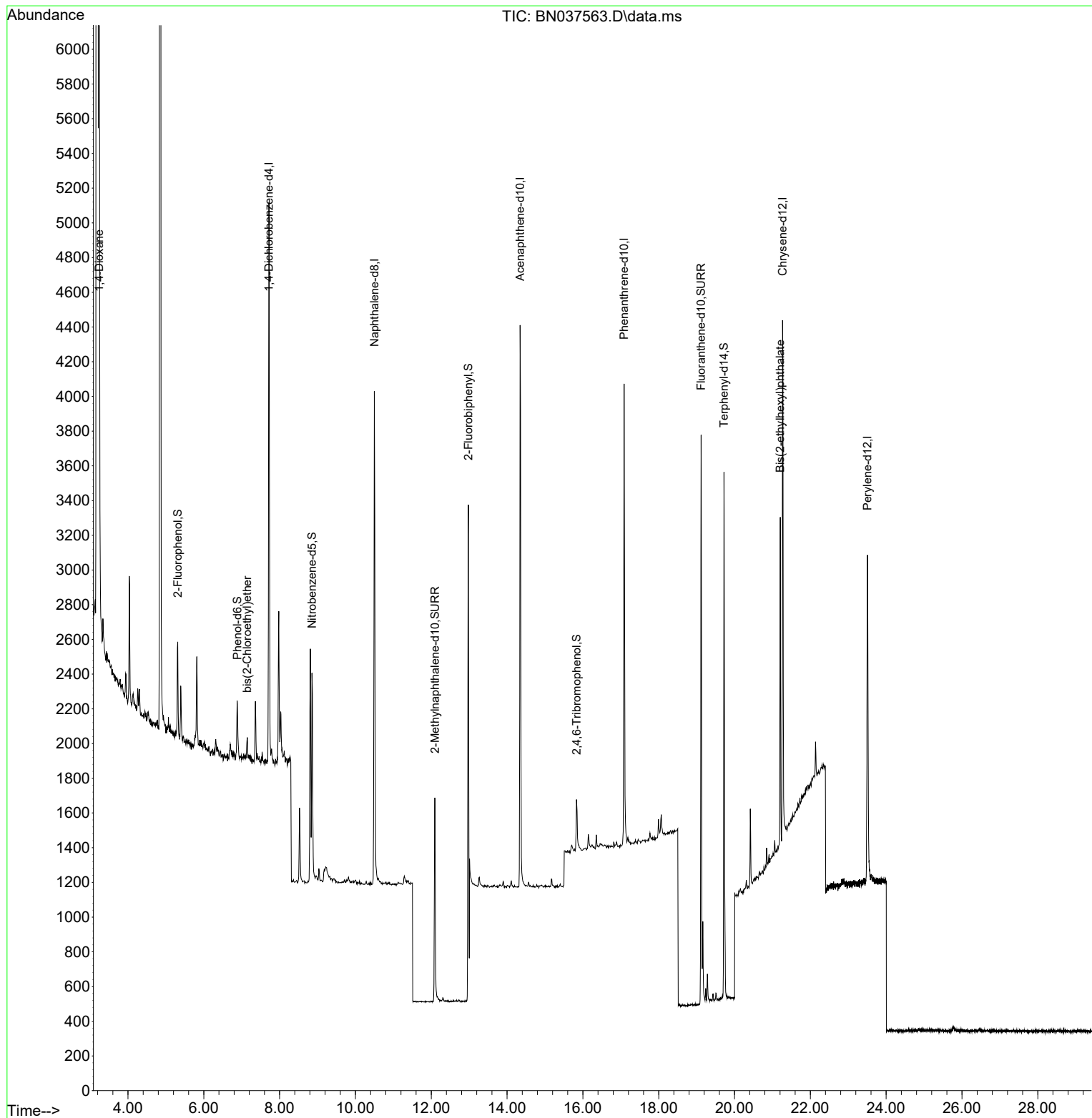
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1609	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3989	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	1937	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	3786	0.400	ng	#-0.01
29) Chrysene-d12	21.268	240	3070	0.400	ng	# 0.00
35) Perylene-d12	23.507	264	2628	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	446	0.112	ng	0.00
5) Phenol-d6	6.887	99	313	0.063	ng	0.00
8) Nitrobenzene-d5	8.854	82	1008	0.338	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1750	0.306	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	194	0.204	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3806	0.378	ng	0.00
27) Fluoranthene-d10	19.118	212	3683	0.367	ng	0.00
31) Terphenyl-d14	19.722	244	2892	0.438	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	5201	3.362	ng	98
6) bis(2-Chloroethyl)ether	7.147	93	91	0.022	ng	92
34) Bis(2-ethylhexyl)phtha...	21.205	149	1702	0.352	ng	96

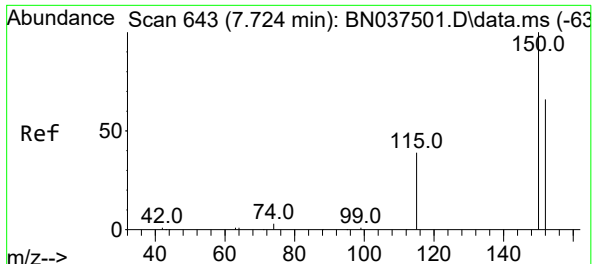
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037563.D
Acq On : 05 Aug 2025 11:59
Operator : RC/JU
Sample : Q2746-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

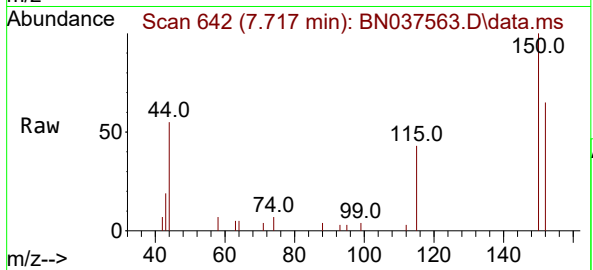
Quant Time: Aug 06 01:38:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration



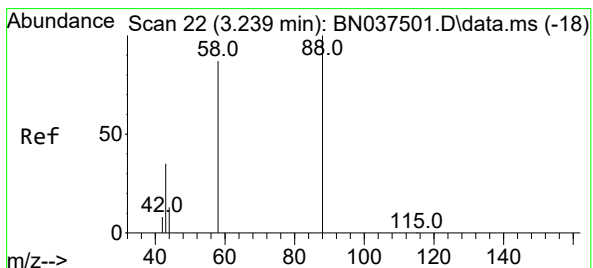
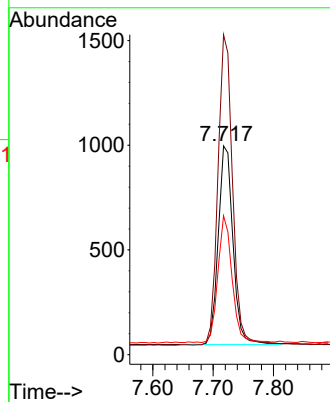
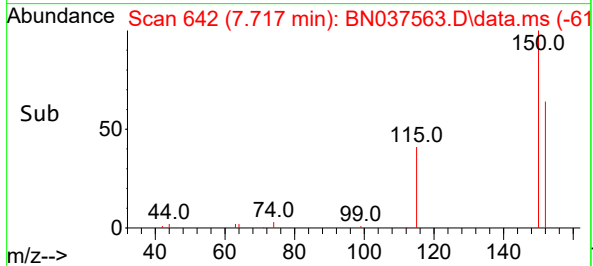


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

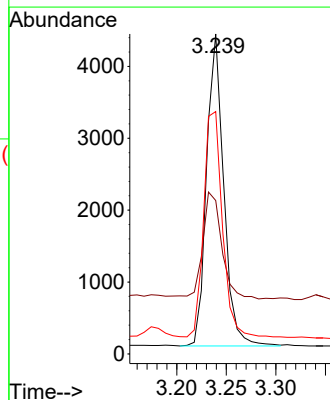
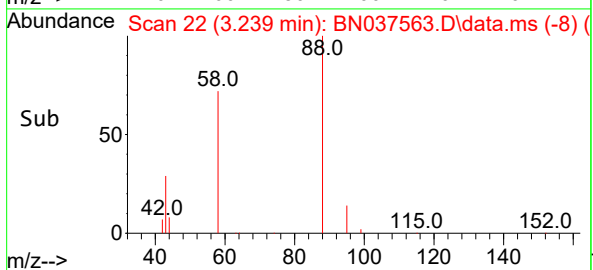
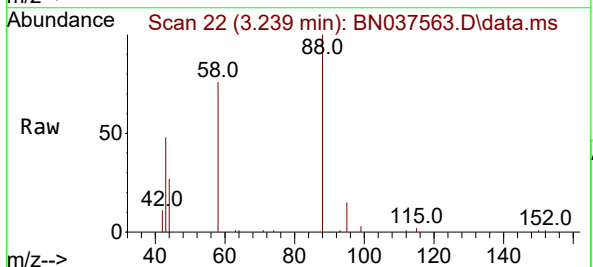


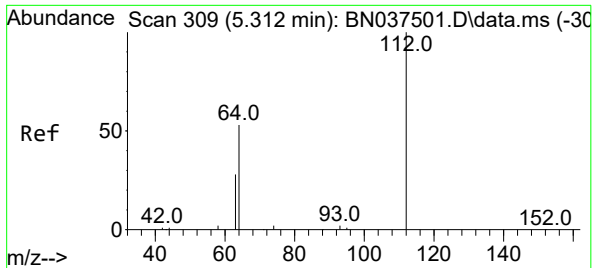
Tgt Ion:152 Resp: 1609
Ion Ratio Lower Upper
152 100
150 153.3 119.8 179.8
115 66.5 49.1 73.7



#2
1,4-Dioxane
Concen: 3.362 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

Tgt Ion: 88 Resp: 5201
Ion Ratio Lower Upper
88 100
43 37.8 27.5 41.3
58 78.5 62.7 94.1

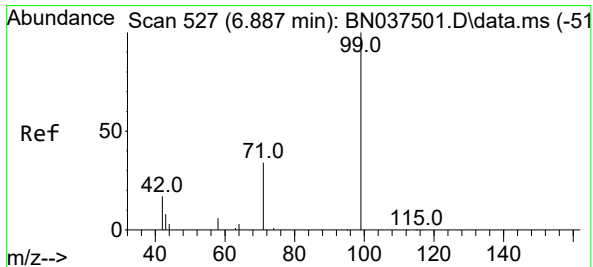
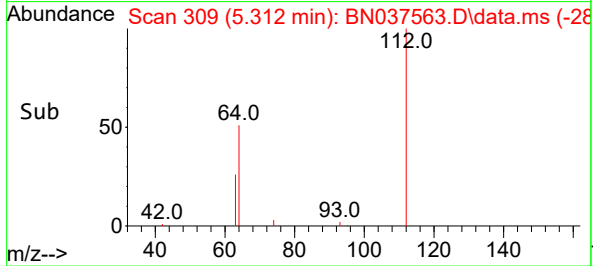
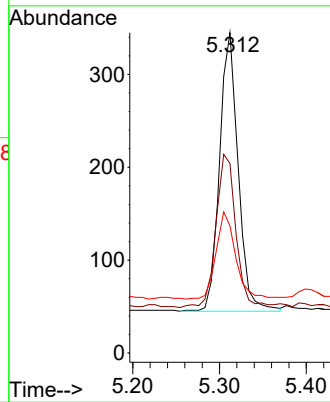
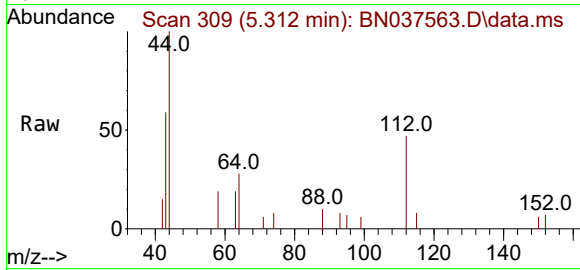




#4
2-Fluorophenol
Concen: 0.112 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

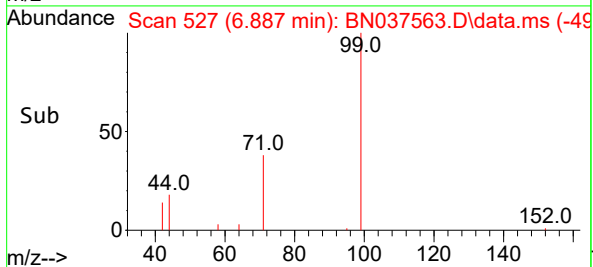
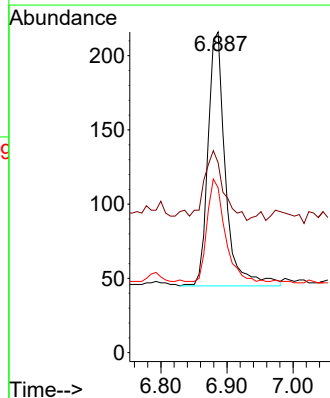
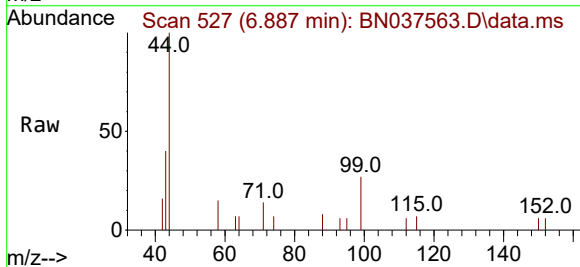
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

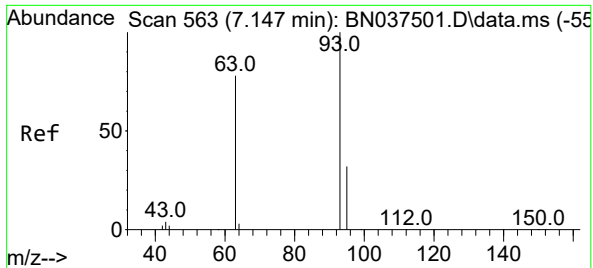
Tgt Ion:112 Resp: 446
Ion Ratio Lower Upper
112 100
64 59.6 45.1 67.7
63 33.2 23.8 35.8



#5
Phenol-d6
Concen: 0.063 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.000 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

Tgt Ion: 99 Resp: 313
Ion Ratio Lower Upper
99 100
42 30.0 17.1 25.7#
71 42.8 27.8 41.8#

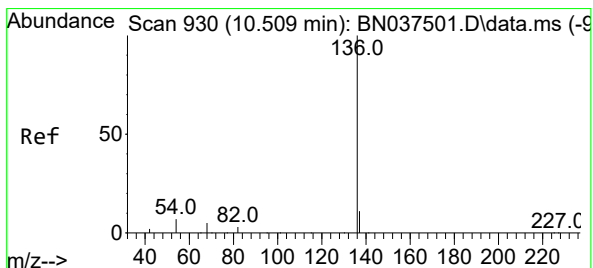
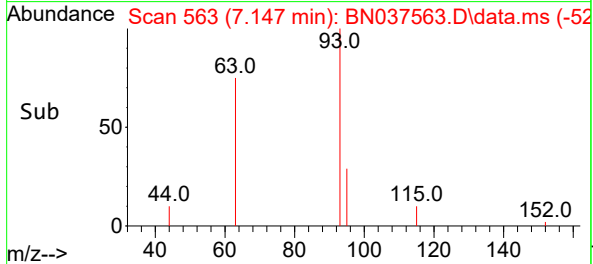
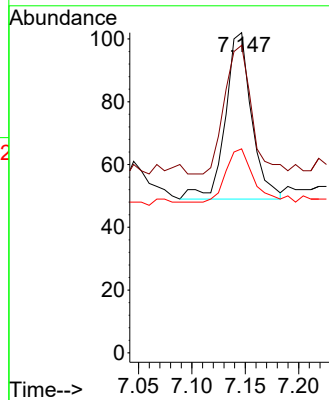
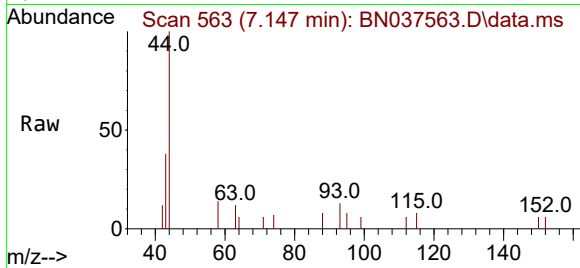




#6
bis(2-Chloroethyl)ether
Concen: 0.022 ng
RT: 7.147 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

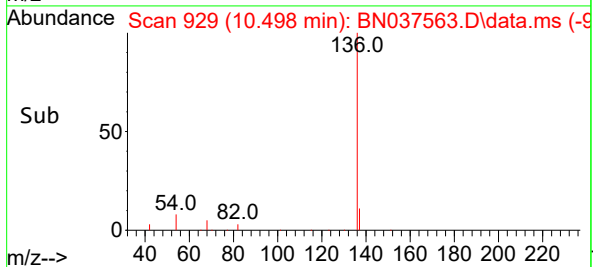
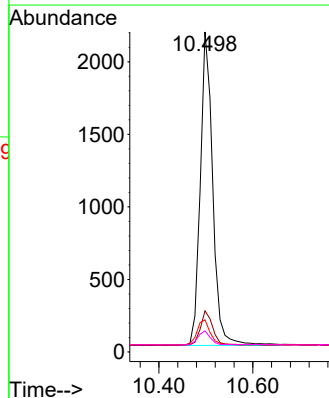
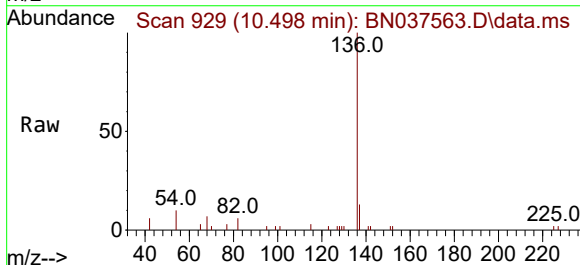
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

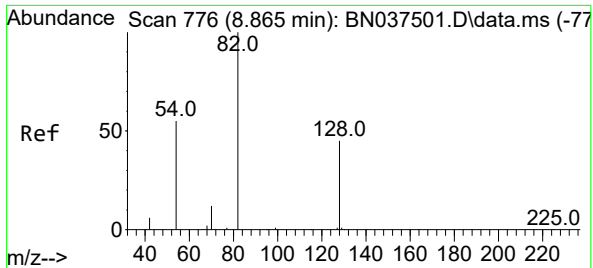
Tgt Ion:	93	Resp:	91
Ion	Ratio	Lower	Upper
93	100		
63	81.3	58.2	87.4
95	34.1	25.3	37.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

Tgt Ion:	136	Resp:	3989
Ion	Ratio	Lower	Upper
136	100		
137	12.9	9.8	14.8
54	10.1	6.6	9.8#
68	6.6	5.0	7.6

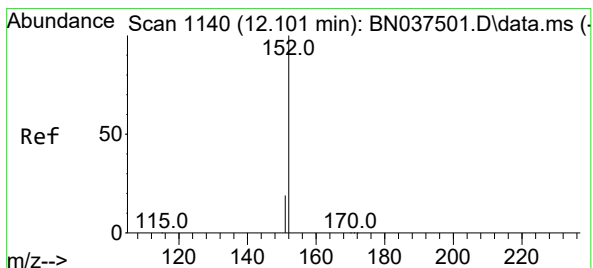
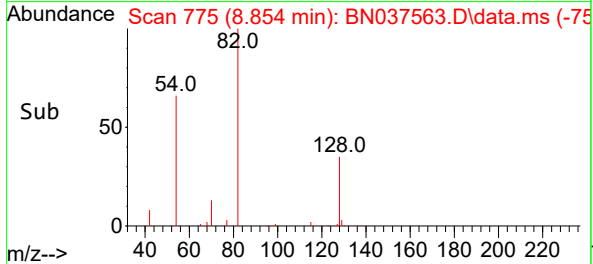
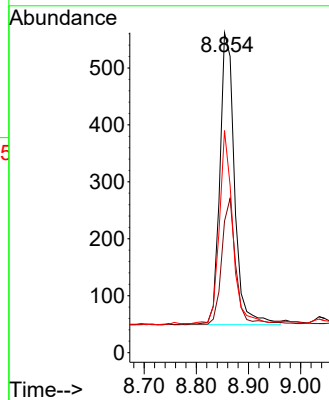
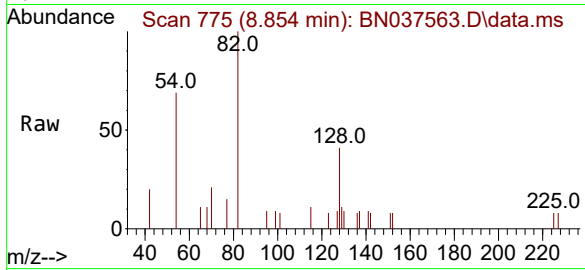




#8
Nitrobenzene-d5
Concen: 0.338 ng
RT: 8.854 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

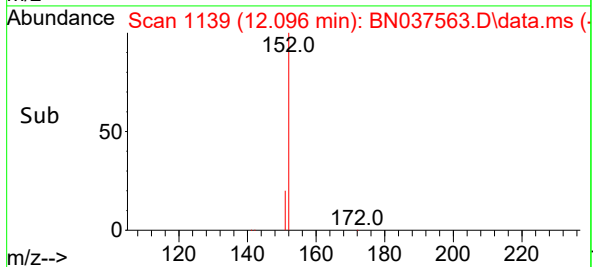
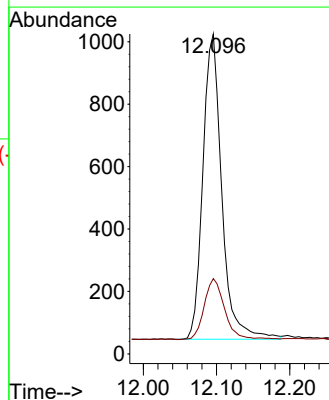
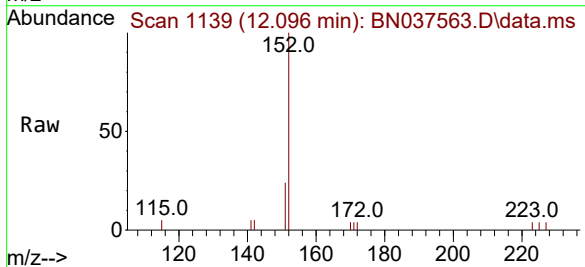
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

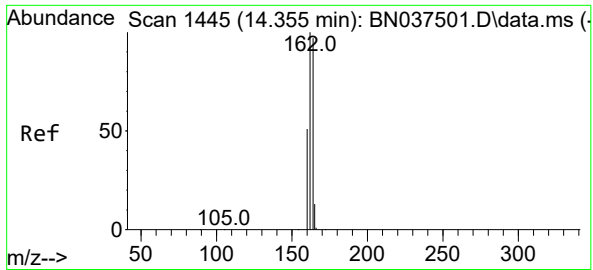
Tgt Ion: 82 Resp: 1008
Ion Ratio Lower Upper
82 100
128 41.1 37.5 56.3
54 69.4 45.3 67.9#



#11
2-Methylnaphthalene-d10
Concen: 0.306 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

Tgt Ion: 152 Resp: 1750
Ion Ratio Lower Upper
152 100
151 21.7 16.8 25.2

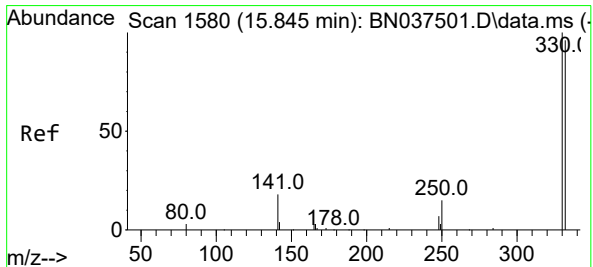
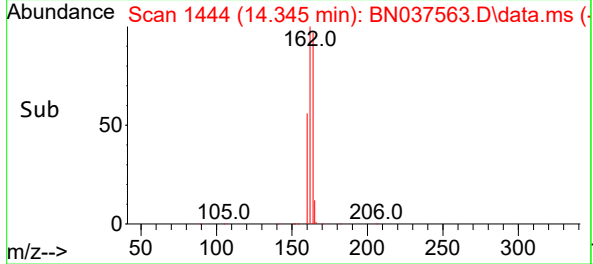
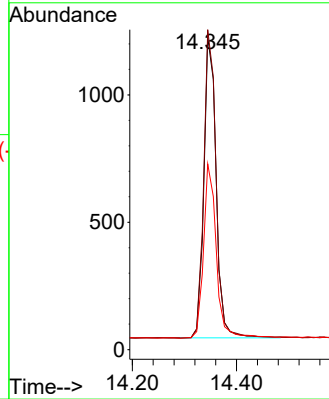
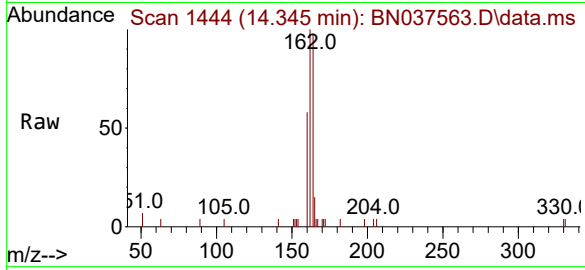




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

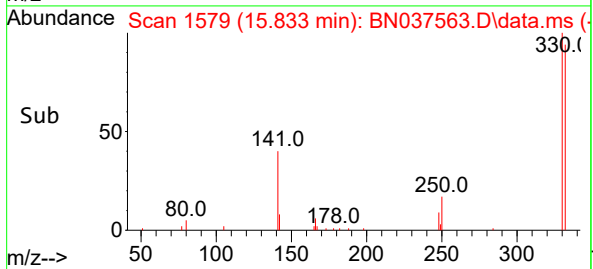
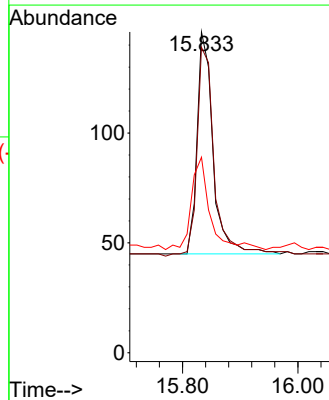
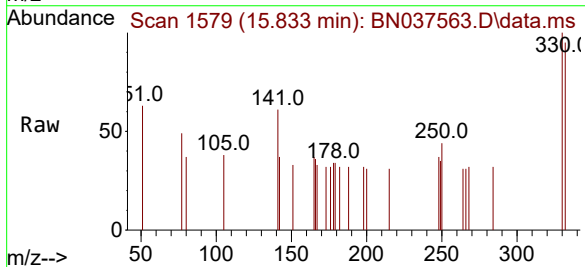
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

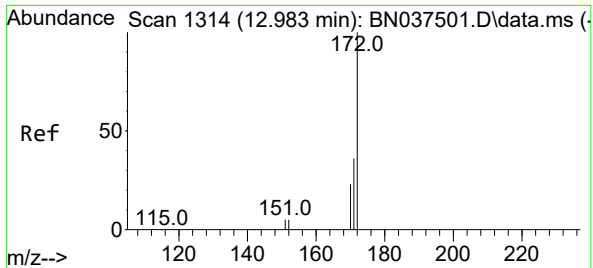
Tgt Ion:164 Resp: 1937
Ion Ratio Lower Upper
164 100
162 102.4 82.0 123.0
160 59.5 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.204 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

Tgt Ion:330 Resp: 194
Ion Ratio Lower Upper
330 100
332 104.6 76.1 114.1
141 48.5 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.378 ng

RT: 12.978 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037563.D

Acq: 05 Aug 2025 11:59

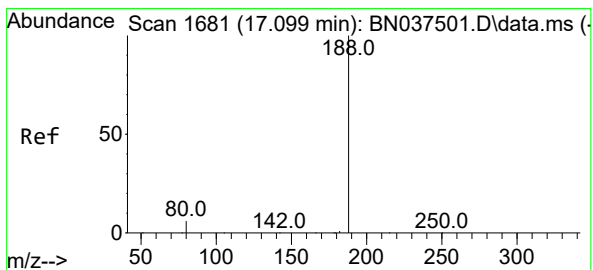
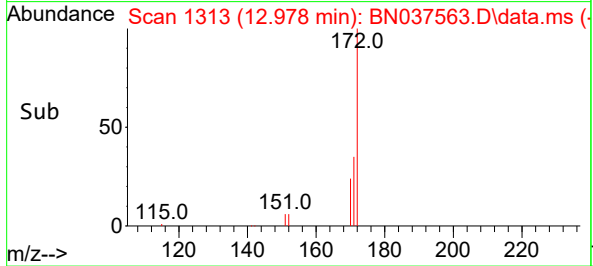
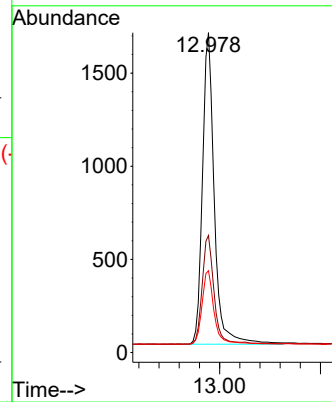
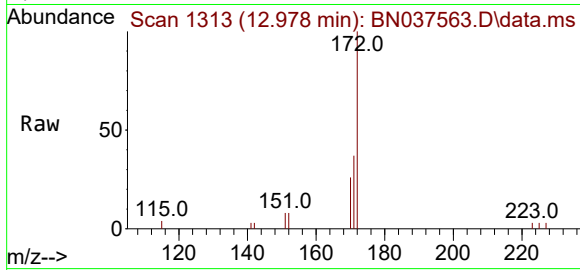
Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250731

Tgt Ion:	172	Resp:	3806
Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.4	44.2
170	25.6	19.4	29.0



#19

Phenanthrene-d10

Concen: 0.400 ng

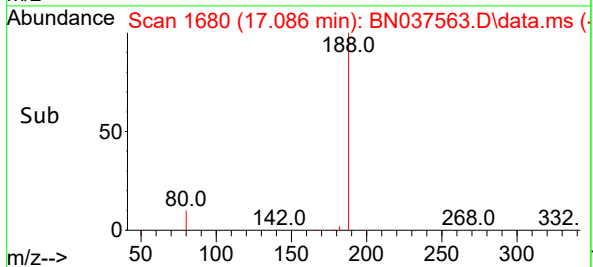
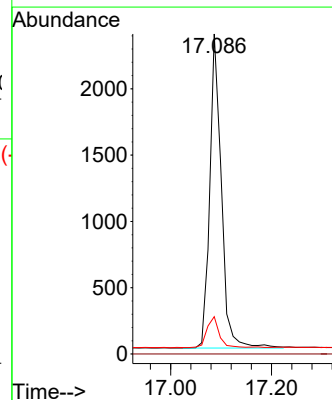
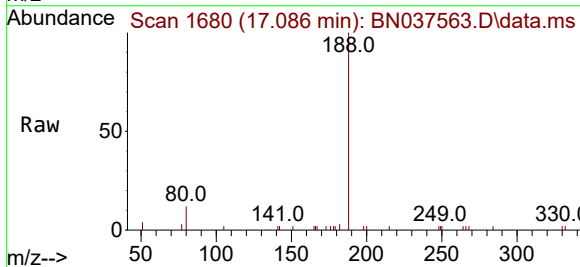
RT: 17.086 min Scan# 1680

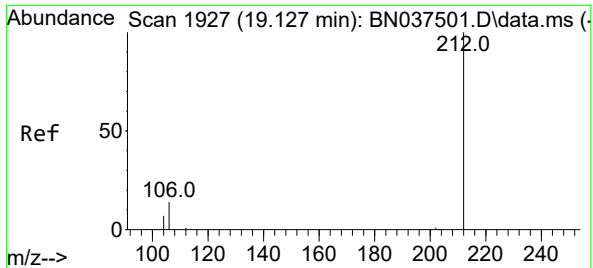
Delta R.T. -0.012 min

Lab File: BN037563.D

Acq: 05 Aug 2025 11:59

Tgt Ion:	188	Resp:	3786
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.7	6.0	9.0#

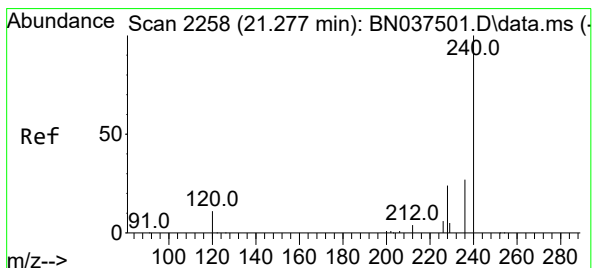
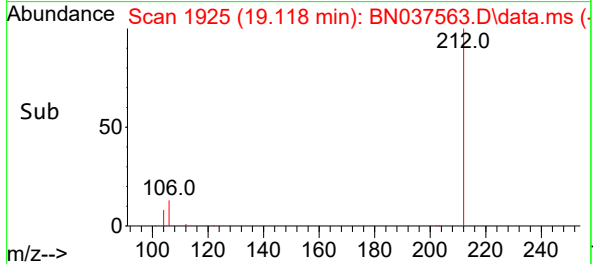
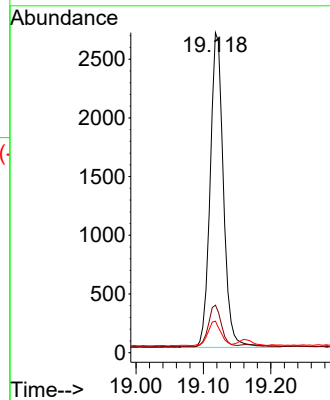
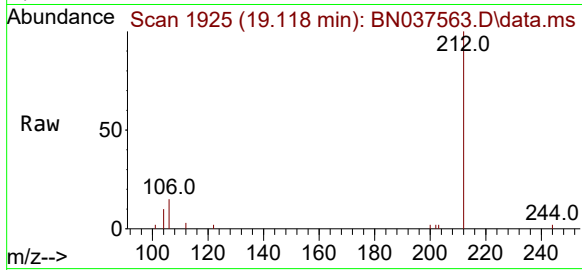




#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.009 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

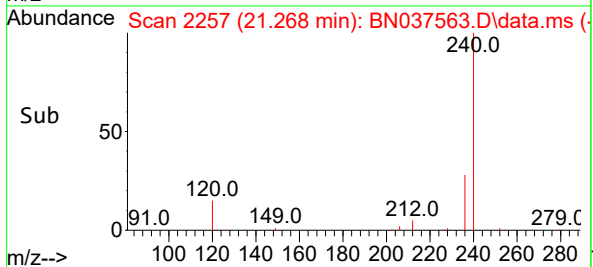
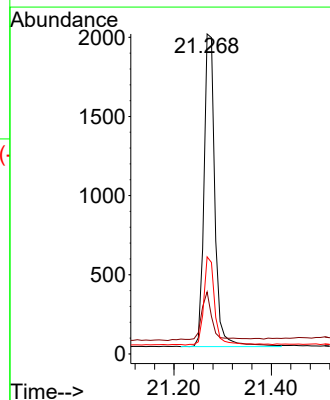
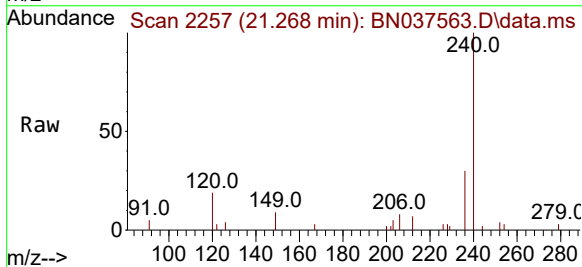
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

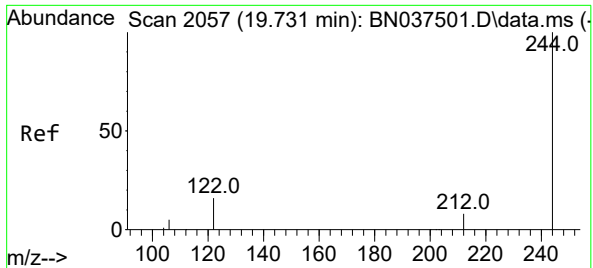
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.1	12.2	18.4
104	7.6	6.7	10.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.009 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

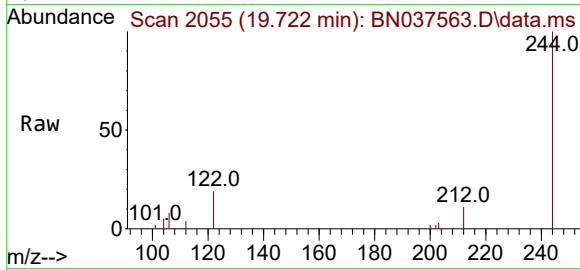
Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.4	10.7	16.1
236	30.3	22.6	33.8



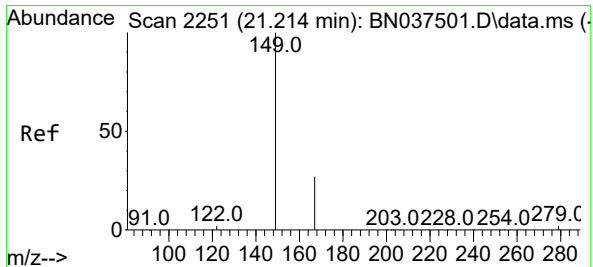
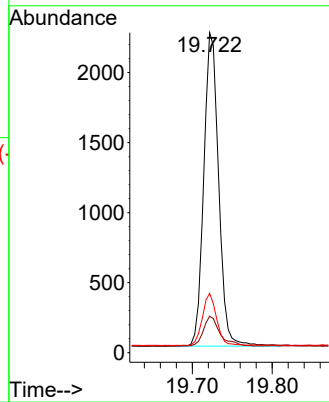
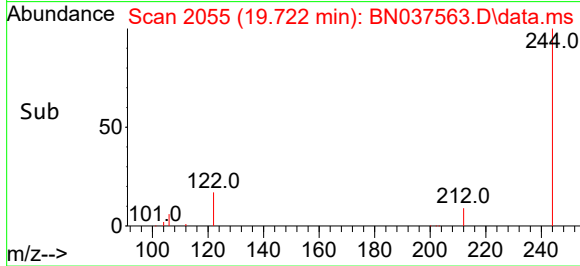


#31
Terphenyl-d14
Concen: 0.438 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.009 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250731

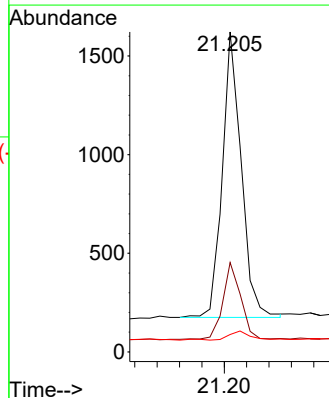
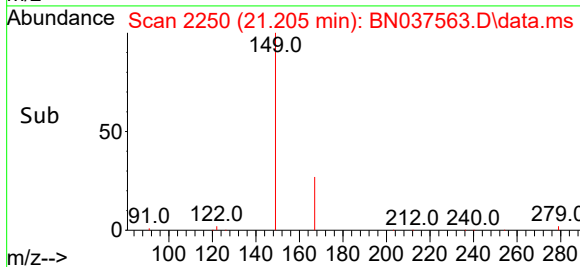
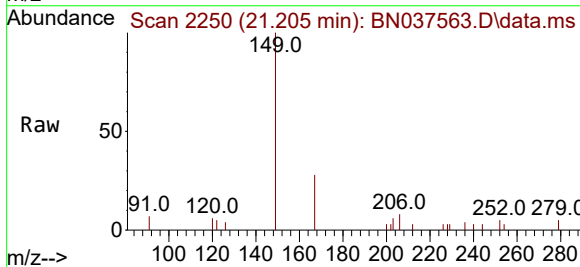


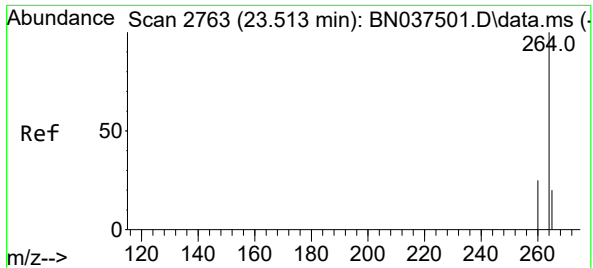
Tgt Ion:244 Resp: 2892
Ion Ratio Lower Upper
244 100
212 11.4 7.4 11.2#
122 18.5 13.6 20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN037563.D
Acq: 05 Aug 2025 11:59

Tgt Ion:149 Resp: 1702
Ion Ratio Lower Upper
149 100
167 25.1 21.8 32.8
279 3.6 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.507 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037563.D

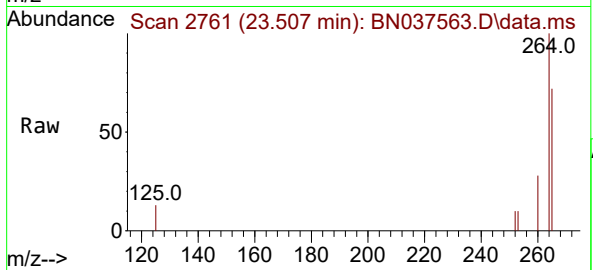
Acq: 05 Aug 2025 11:59

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250731



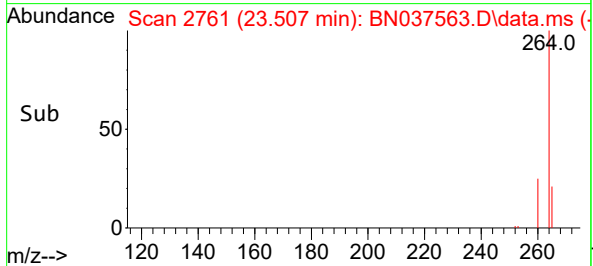
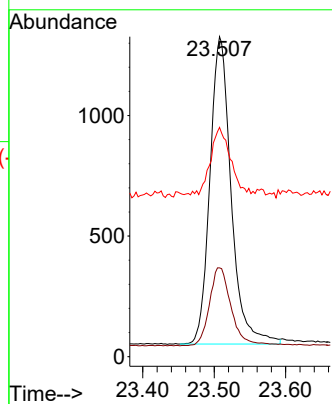
Tgt Ion:264 Resp: 2628

Ion Ratio Lower Upper

264 100

260 27.7 21.2 31.8

265 71.7 40.4 60.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW7-SP201-20250731	SDG No.:	Q2746
Lab Sample ID:	Q2746-02	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
BN037564.D	1	08/04/25 08:40	08/05/25 12:35	PB169094

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	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1660	7.717				
1146-65-2	Naphthalene-d8	4050	10.498				
15067-26-2	Acenaphthene-d10	2020	14.345				
1517-22-2	Phenanthrene-d10	3890	17.086				
1719-03-5	Chrysene-d12	3050	21.268				
1520-96-3	Perylene-d12	2570	23.508				

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\BN080525\
Data File : BN037564.D
Acq On : 05 Aug 2025 12:35
Operator : RC/JU
Sample : Q2746-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250731

Quant Time: Aug 06 01:39:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

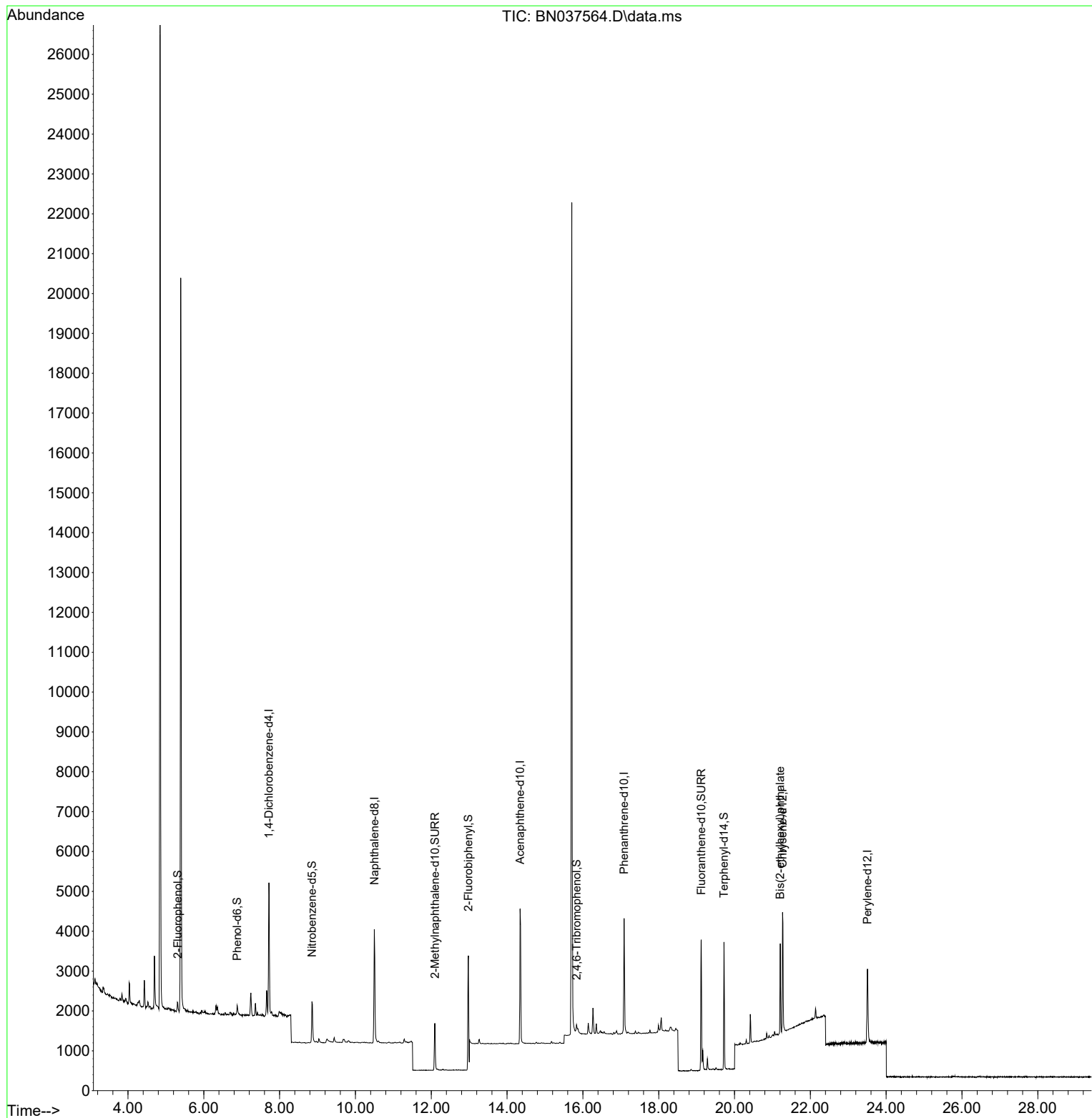
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1663	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4045	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	2018	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	3888	0.400	ng	#-0.01
29) Chrysene-d12	21.268	240	3048	0.400	ng	# 0.00
35) Perylene-d12	23.508	264	2566	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	182	0.044	ng	0.00
5) Phenol-d6	6.879	99	204	0.040	ng	0.00
8) Nitrobenzene-d5	8.854	82	937	0.310	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1719	0.296	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	111	0.112	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3776	0.360	ng	0.00
27) Fluoranthene-d10	19.122	212	3769	0.366	ng	0.00
31) Terphenyl-d14	19.722	244	3054	0.466	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.205	149	2022	0.421	ng	# 96

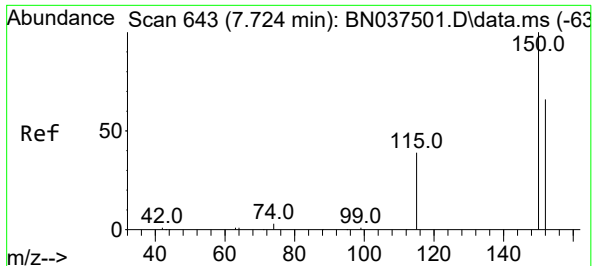
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037564.D
Acq On : 05 Aug 2025 12:35
Operator : RC/JU
Sample : Q2746-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250731

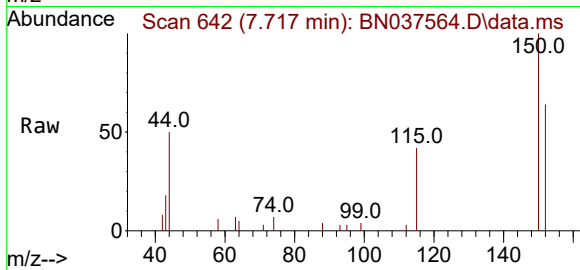
Quant Time: Aug 06 01:39:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration



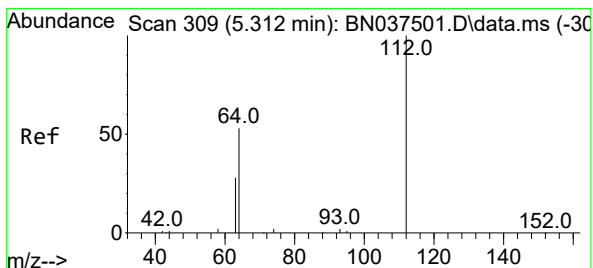
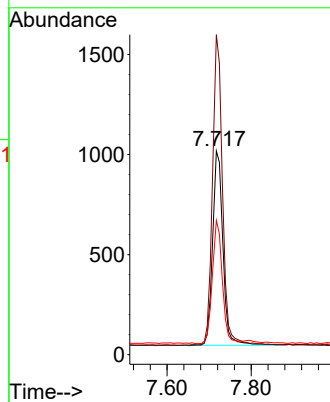
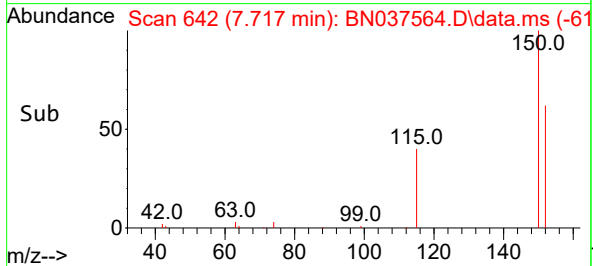


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250731

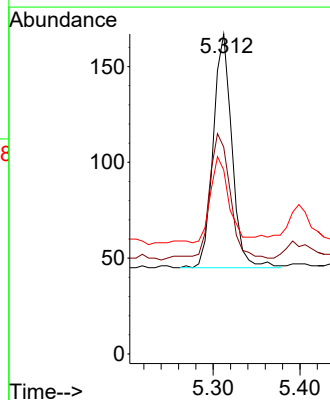
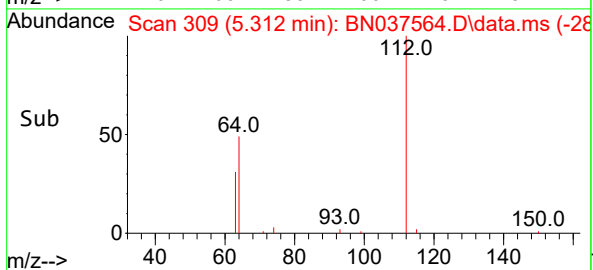
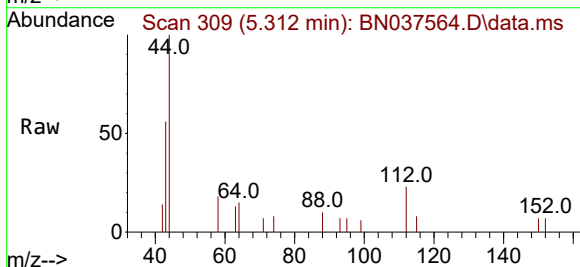


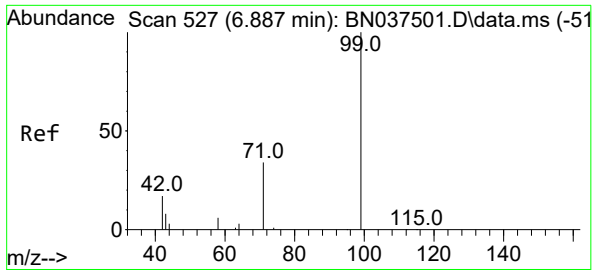
Tgt Ion:152 Resp: 1663
Ion Ratio Lower Upper
152 100
150 157.1 119.8 179.8
115 65.9 49.1 73.7



#4
2-Fluorophenol
Concen: 0.044 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

Tgt Ion:112 Resp: 182
Ion Ratio Lower Upper
112 100
64 62.1 45.1 67.7
63 36.3 23.8 35.8#

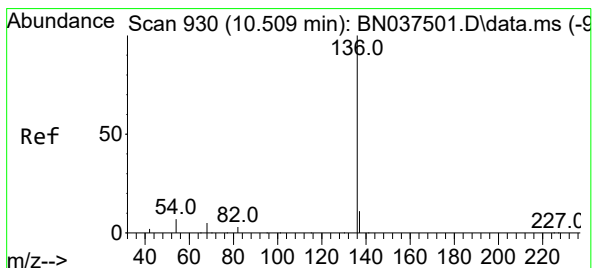
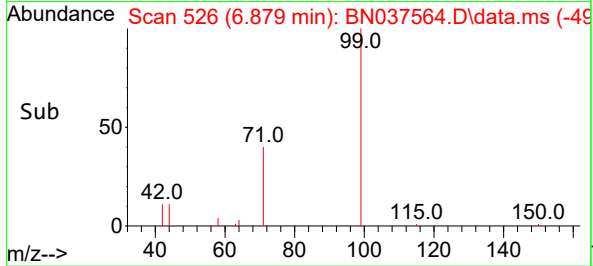
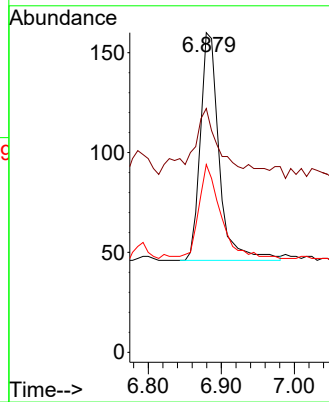
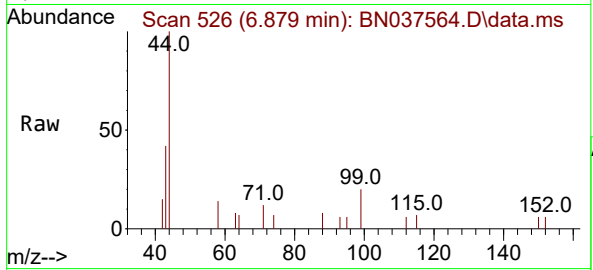




#5
Phenol-d6
Concen: 0.040 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

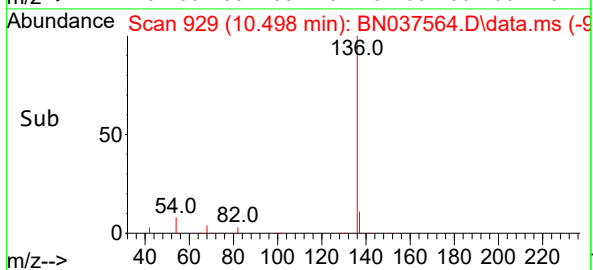
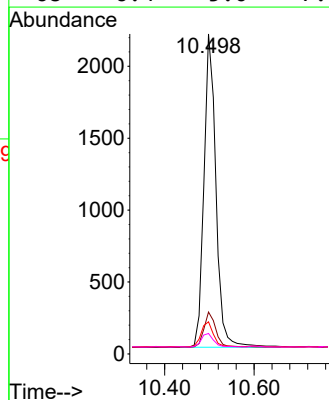
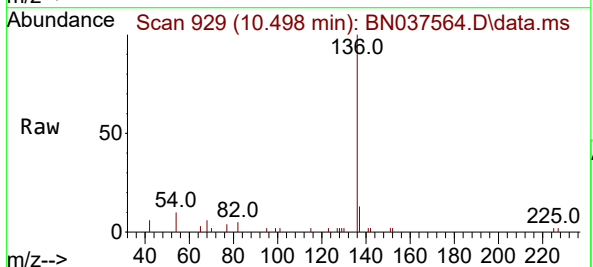
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250731

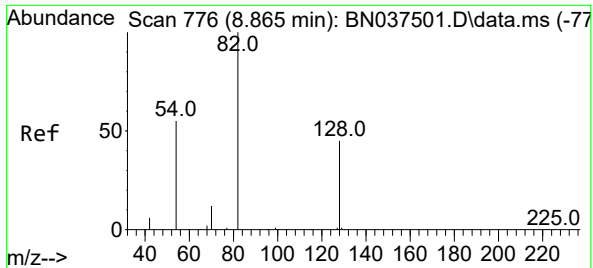
Tgt Ion: 99 Resp: 204
Ion Ratio Lower Upper
99 100
42 39.7 17.1 25.7#
71 47.5 27.8 41.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

Tgt Ion: 136 Resp: 4045
Ion Ratio Lower Upper
136 100
137 13.1 9.8 14.8
54 10.0 6.6 9.8#
68 6.4 5.0 7.6

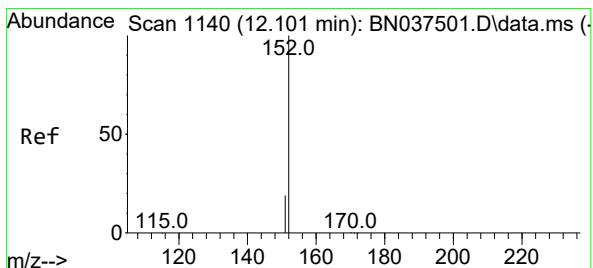
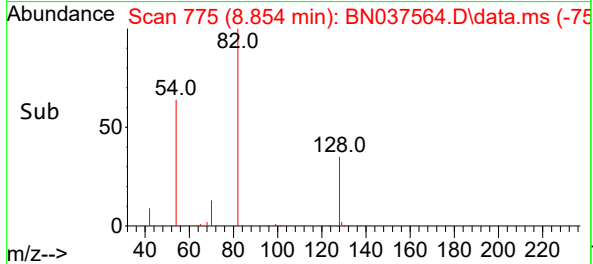
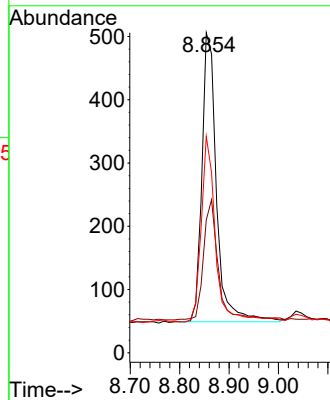
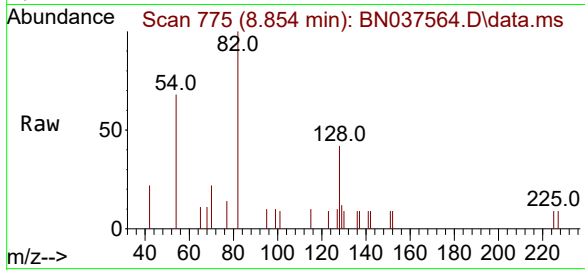




#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.854 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

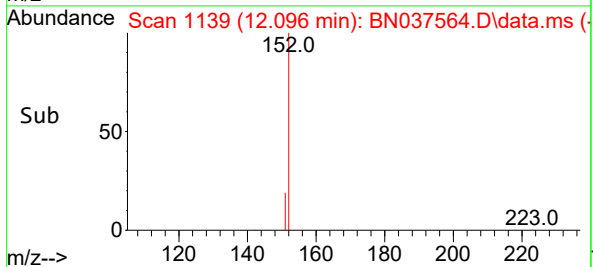
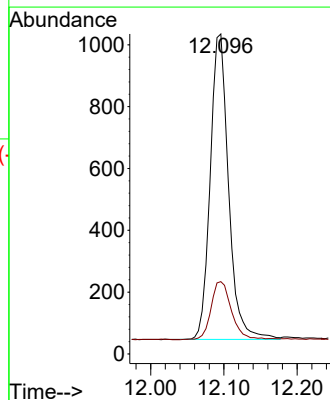
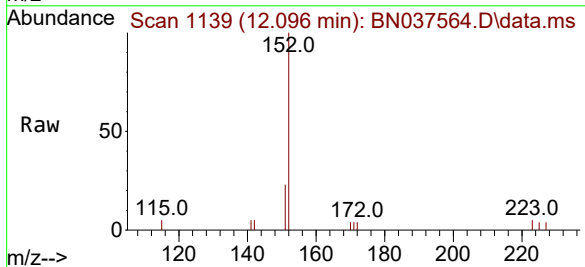
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250731

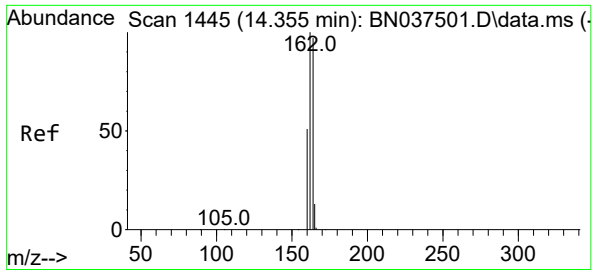
Tgt Ion:	82	Resp:	937
Ion	Ratio	Lower	Upper
82	100		
128	41.5	37.5	56.3
54	67.6	45.3	67.9



#11
2-Methylnaphthalene-d10
Concen: 0.296 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

Tgt Ion:	152	Resp:	1719
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.8	25.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.345 min Scan# 1445

Delta R.T. -0.011 min

Lab File: BN037564.D

Acq: 05 Aug 2025 12:35

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20250731

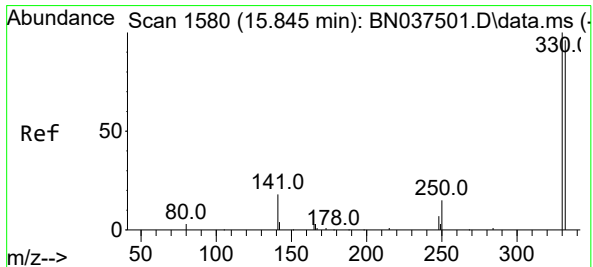
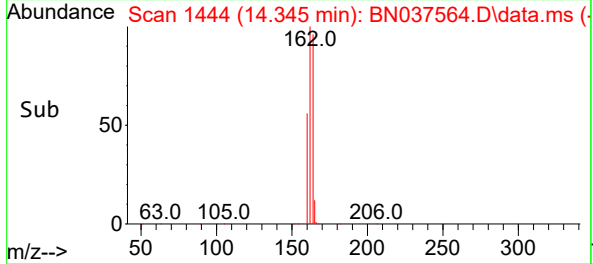
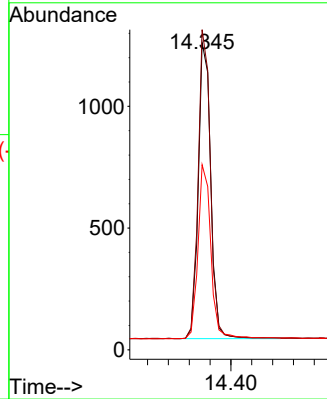
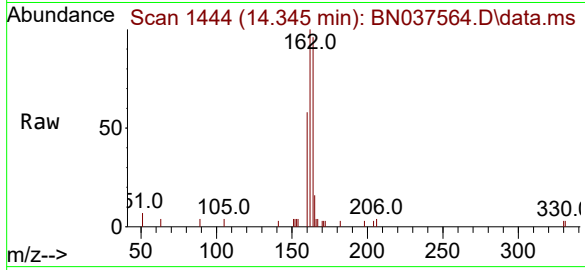
Tgt Ion:164 Resp: 2018

Ion Ratio Lower Upper

164 100

162 104.2 82.0 123.0

160 60.2 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 0.112 ng

RT: 15.833 min Scan# 1579

Delta R.T. -0.012 min

Lab File: BN037564.D

Acq: 05 Aug 2025 12:35

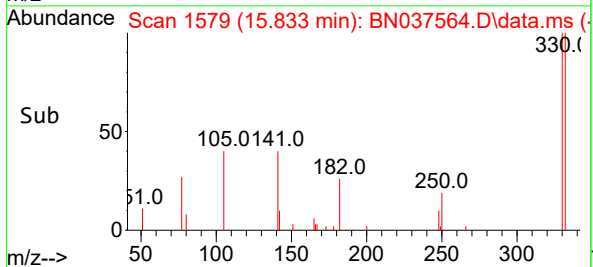
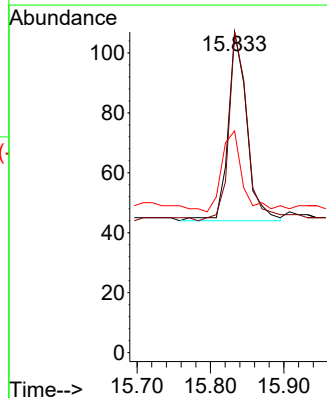
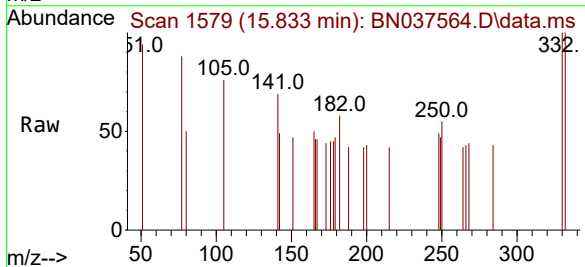
Tgt Ion:330 Resp: 111

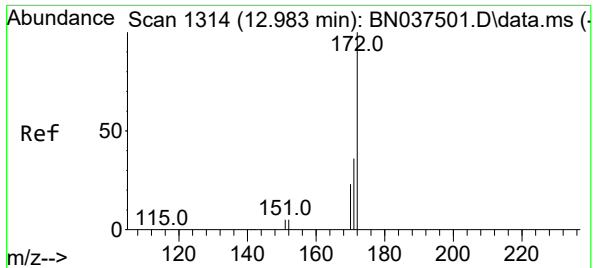
Ion Ratio Lower Upper

330 100

332 101.8 76.1 114.1

141 48.6 33.4 50.0

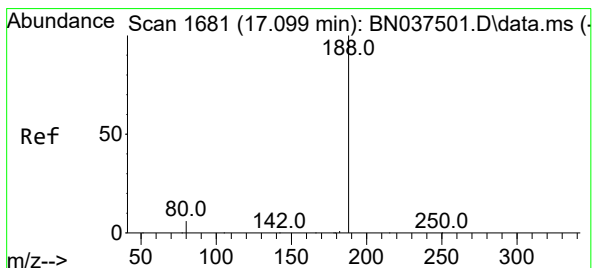
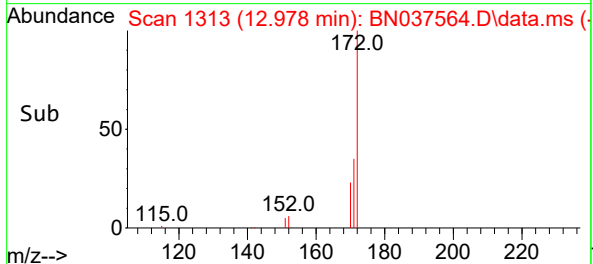
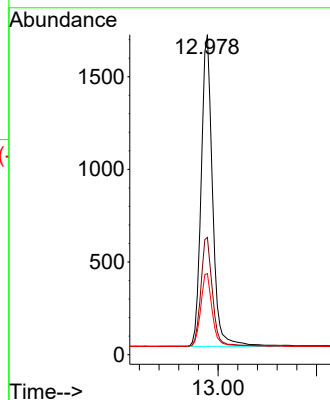
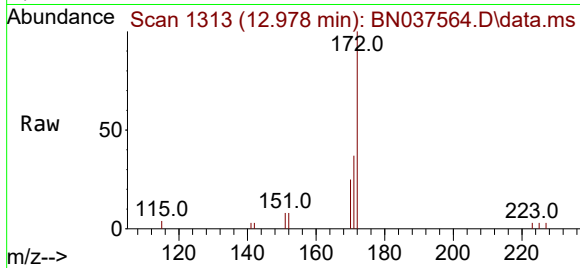




#15
2-Fluorobiphenyl
Concen: 0.360 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

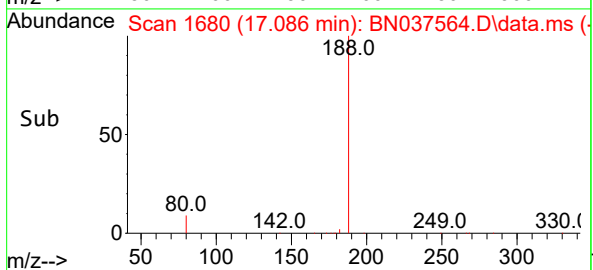
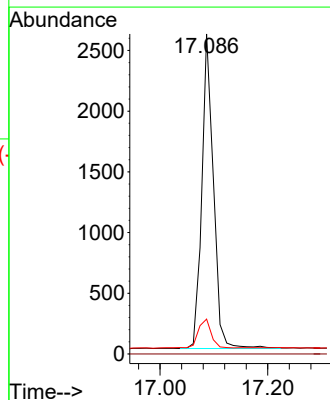
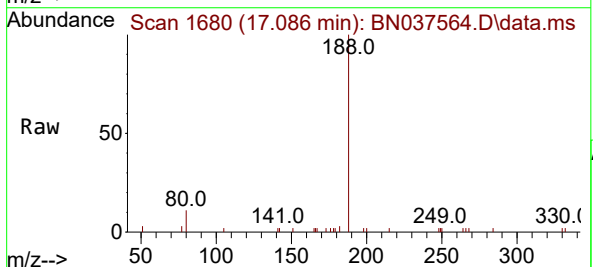
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250731

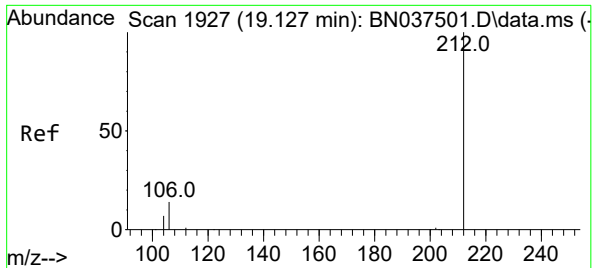
Tgt Ion:	172	Resp:	3776
Ion Ratio	Lower	Upper	
172	100		
171	36.7	29.4	44.2
170	25.4	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

Tgt Ion:	188	Resp:	3888
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.9	6.0	9.0#





#27

Fluoranthene-d10

Concen: 0.366 ng

RT: 19.122 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037564.D

Acq: 05 Aug 2025 12:35

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20250731

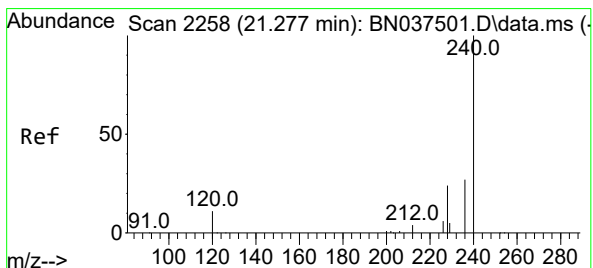
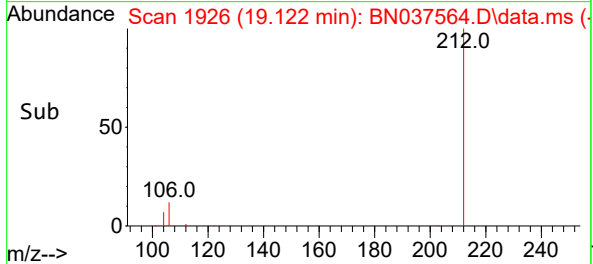
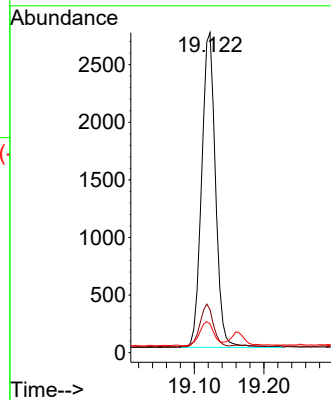
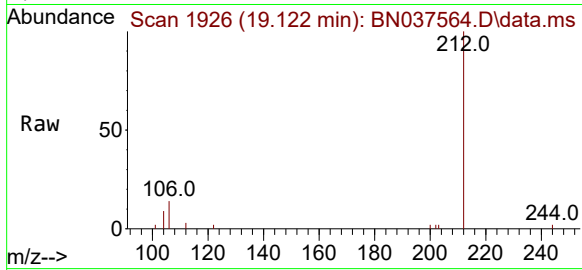
Tgt Ion:212 Resp: 3769

Ion Ratio Lower Upper

212 100

106 13.2 12.2 18.4

104 7.9 6.7 10.1



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 2257

Delta R.T. -0.009 min

Lab File: BN037564.D

Acq: 05 Aug 2025 12:35

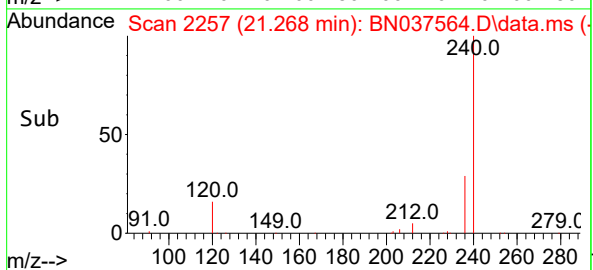
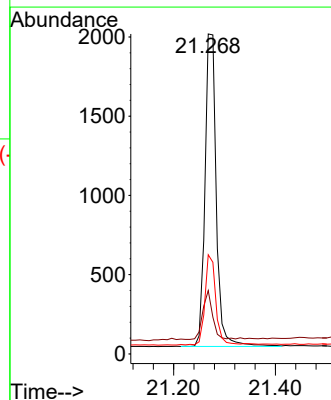
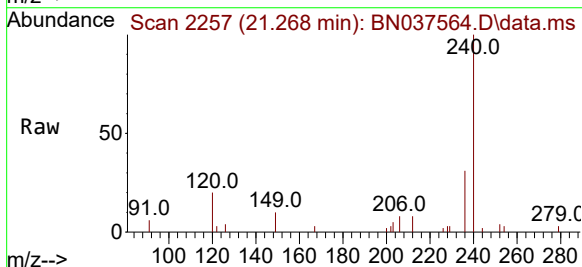
Tgt Ion:240 Resp: 3048

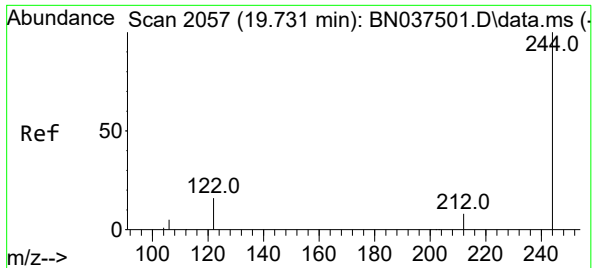
Ion Ratio Lower Upper

240 100

120 19.8 10.7 16.1#

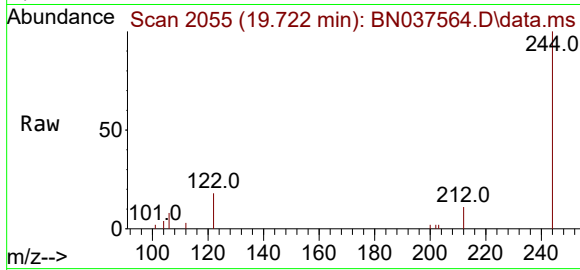
236 31.0 22.6 33.8



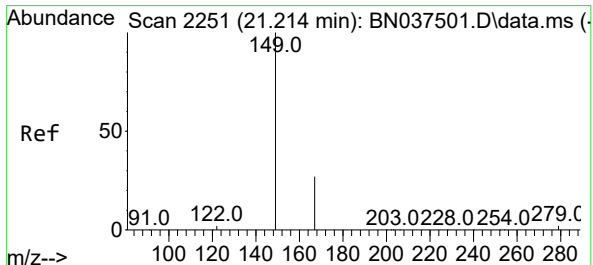
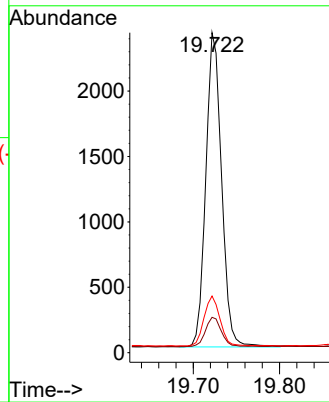
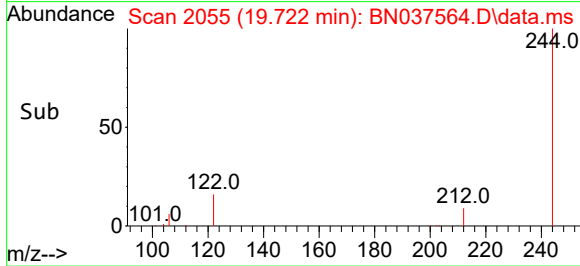


#31
Terphenyl-d14
Concen: 0.466 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.009 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250731

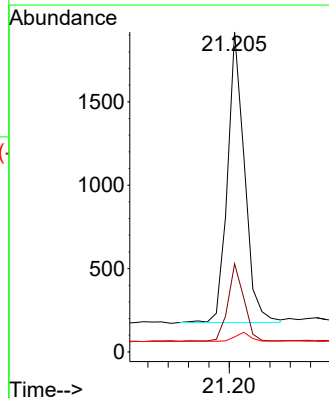
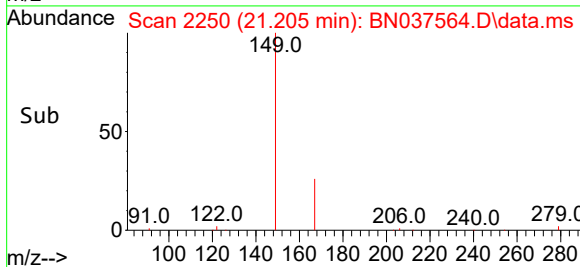
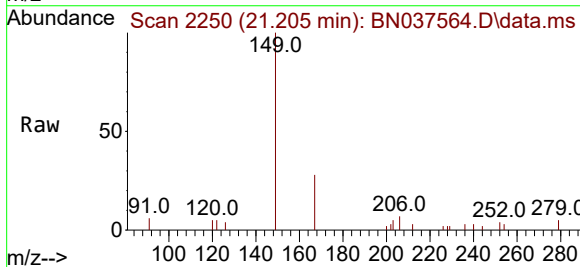


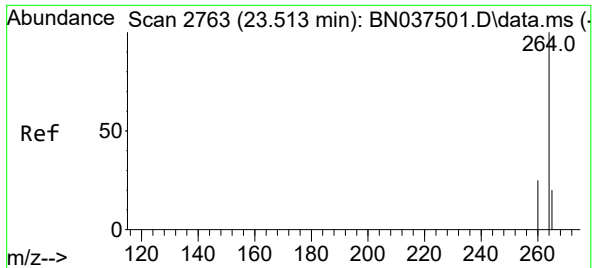
Tgt Ion:244 Resp: 3054
Ion Ratio Lower Upper
244 100
212 11.1 7.4 11.2
122 17.7 13.6 20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.421 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN037564.D
Acq: 05 Aug 2025 12:35

Tgt Ion:149 Resp: 2022
Ion Ratio Lower Upper
149 100
167 25.1 21.8 32.8
279 2.9 3.0 4.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037564.D

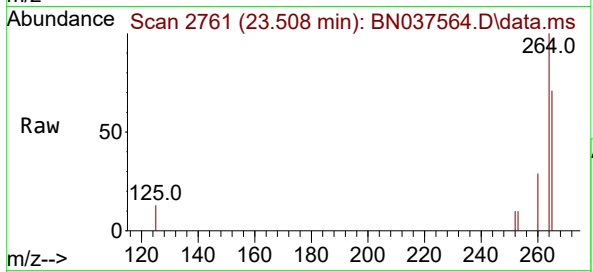
Acq: 05 Aug 2025 12:35

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20250731



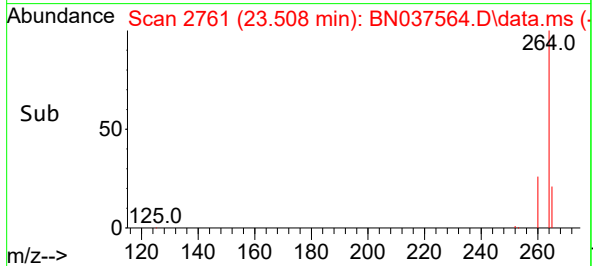
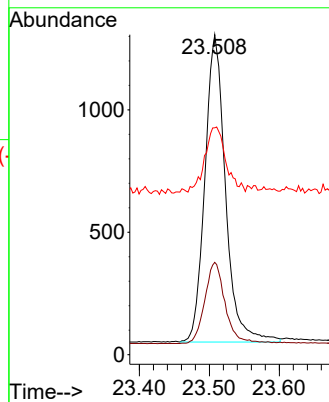
Tgt Ion:264 Resp: 2566

Ion Ratio Lower Upper

264 100

260 28.8 21.2 31.8

265 70.9 40.4 60.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW7-SP303-20250731	SDG No.:	Q2746
Lab Sample ID:	Q2746-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 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
BN037565.D	1	08/04/25 08:40	08/05/25 13:11	PB169094

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		109%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1560	7.717				
1146-65-2	Naphthalene-d8	3780	10.498				
15067-26-2	Acenaphthene-d10	1850	14.345				
1517-22-2	Phenanthrene-d10	3670	17.087				
1719-03-5	Chrysene-d12	3060	21.277				
1520-96-3	Perylene-d12	2540	23.508				

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\BN080525\
Data File : BN037565.D
Acq On : 05 Aug 2025 13:11
Operator : RC/JU
Sample : Q2746-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250731

Quant Time: Aug 06 01:39:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

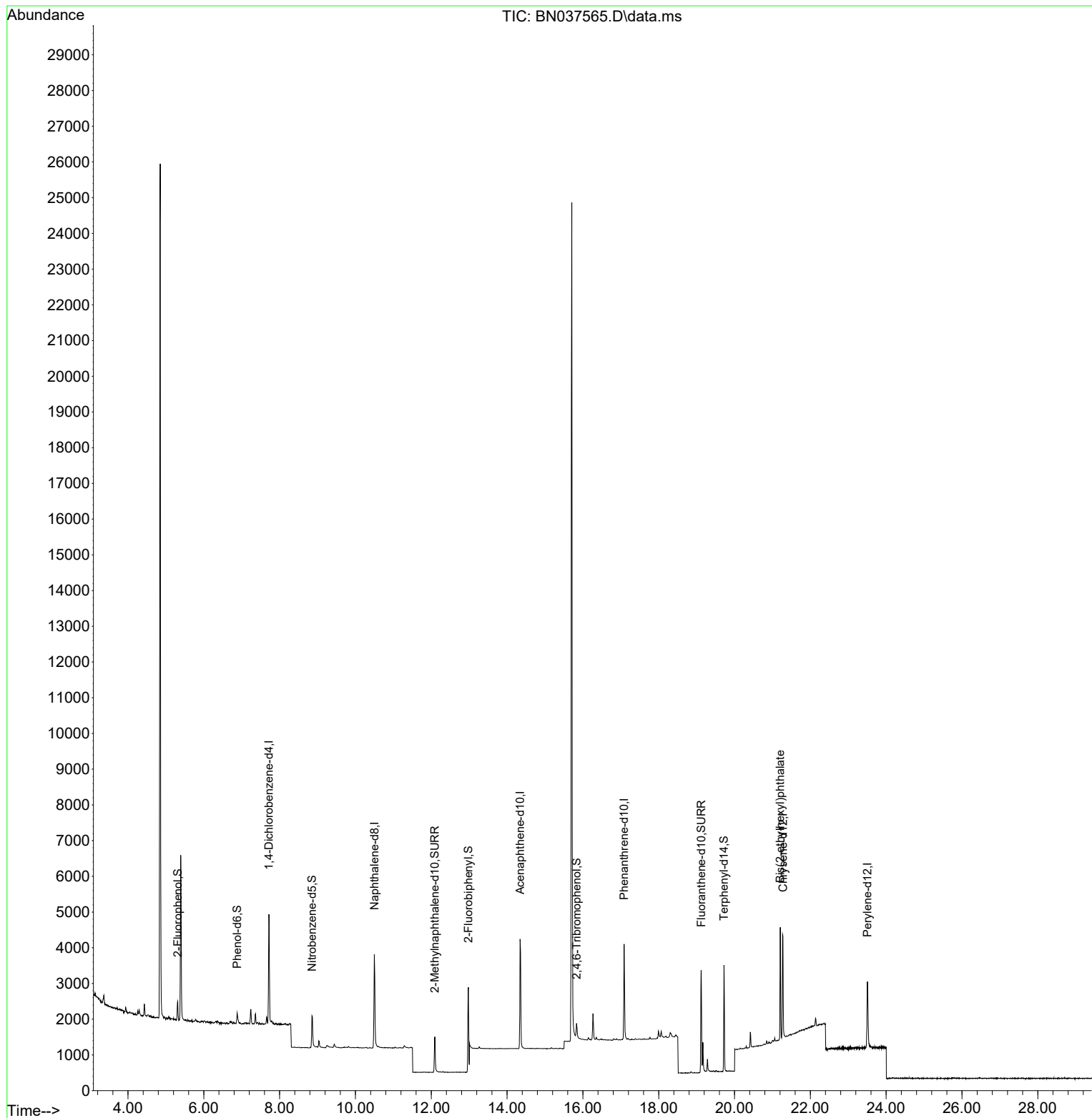
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1563	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3777	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	1847	0.400	ng	-0.01
19) Phenanthrene-d10	17.087	188	3668	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3062	0.400	ng	0.00
35) Perylene-d12	23.508	264	2537	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	407	0.105	ng	0.00
5) Phenol-d6	6.880	99	250	0.052	ng	0.00
8) Nitrobenzene-d5	8.854	82	864	0.306	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1516	0.280	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	244	0.269	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3267	0.340	ng	0.00
27) Fluoranthene-d10	19.123	212	3436	0.354	ng	0.00
31) Terphenyl-d14	19.722	244	2870	0.436	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.205	149	2840	0.589	ng	97

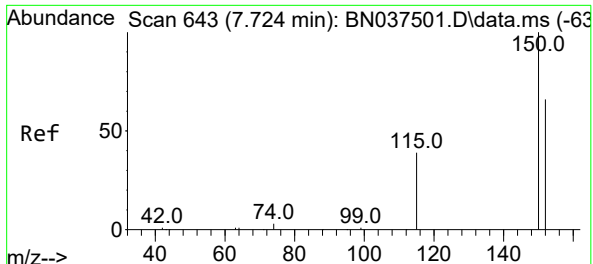
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037565.D
Acq On : 05 Aug 2025 13:11
Operator : RC/JU
Sample : Q2746-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250731

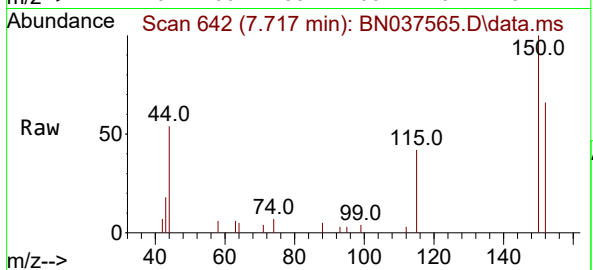
Quant Time: Aug 06 01:39:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration



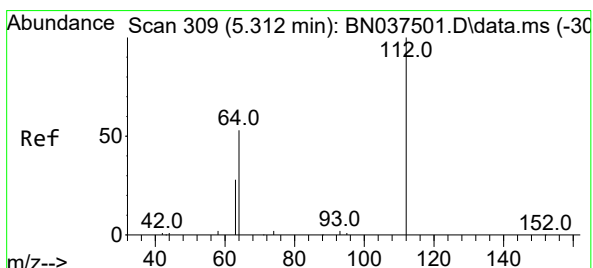
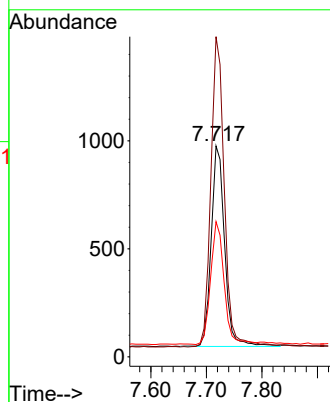
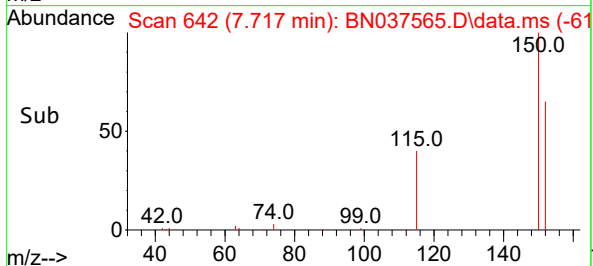


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 643
Delta R.T. -0.007 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250731

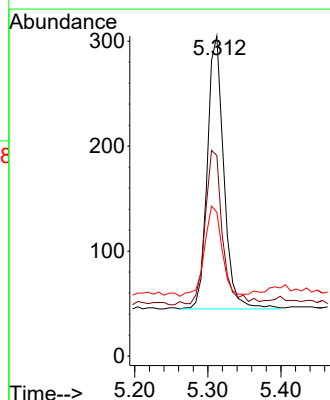
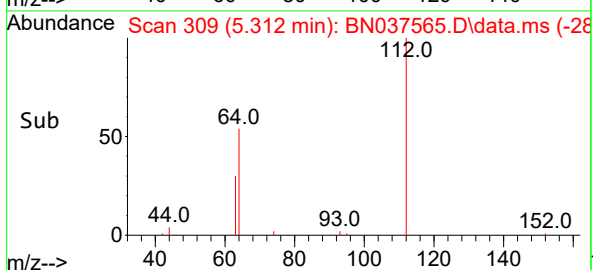
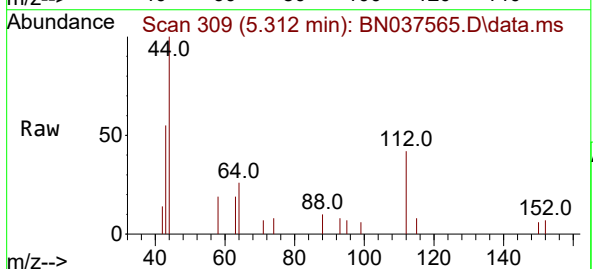


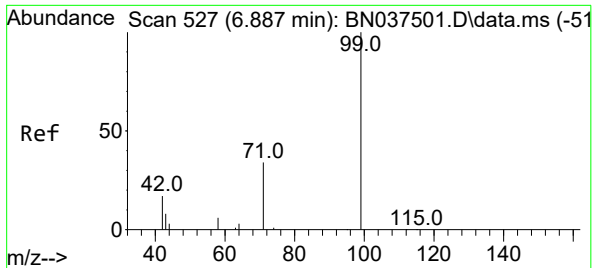
Tgt Ion:152 Resp: 1563
Ion Ratio Lower Upper
152 100
150 151.8 119.8 179.8
115 64.1 49.1 73.7



#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

Tgt Ion:112 Resp: 407
Ion Ratio Lower Upper
112 100
64 60.4 45.1 67.7
63 34.9 23.8 35.8

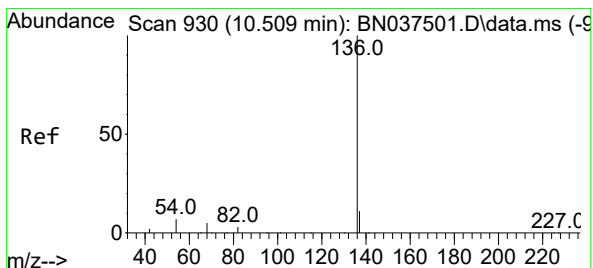
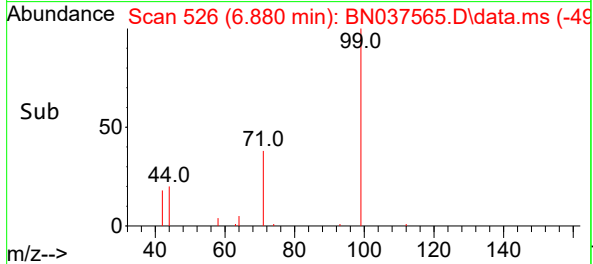
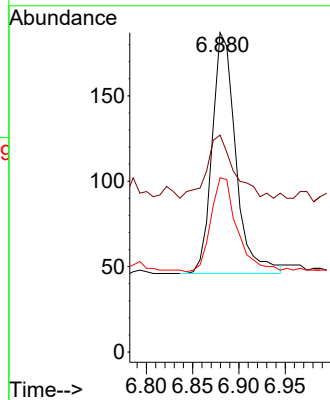
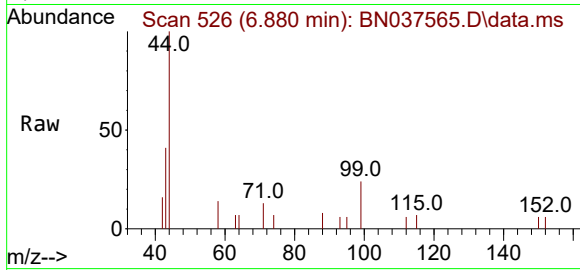




#5
Phenol-d6
Concen: 0.052 ng
RT: 6.880 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

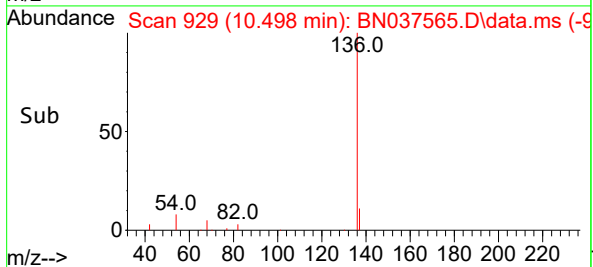
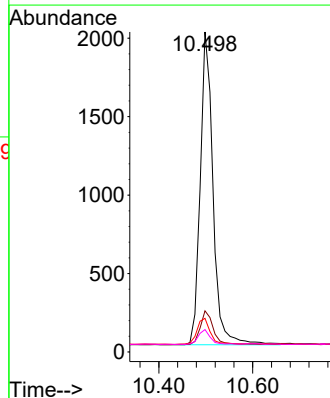
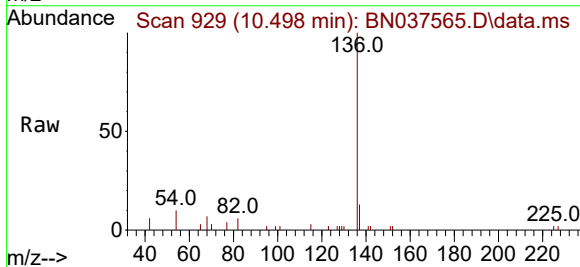
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250731

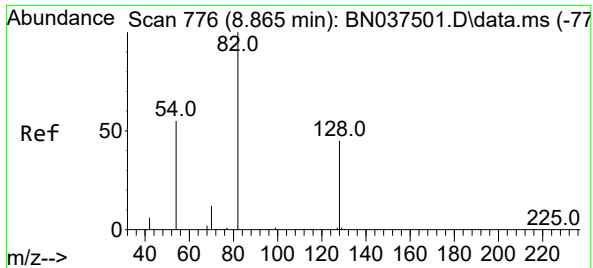
Tgt Ion: 99 Resp: 250
Ion Ratio Lower Upper
99 100
42 35.2 17.1 25.7#
71 44.4 27.8 41.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

Tgt Ion: 136 Resp: 3777
Ion Ratio Lower Upper
136 100
137 12.8 9.8 14.8
54 10.5 6.6 9.8#
68 7.0 5.0 7.6

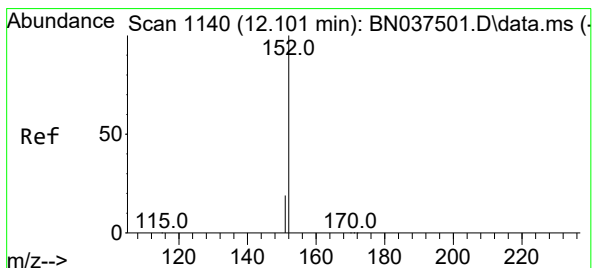
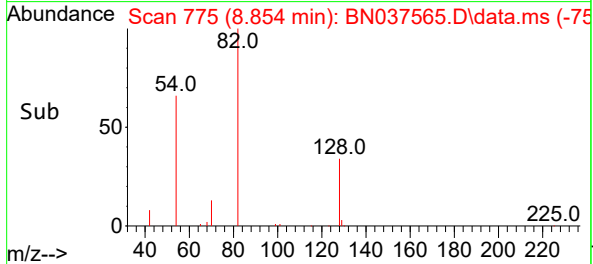
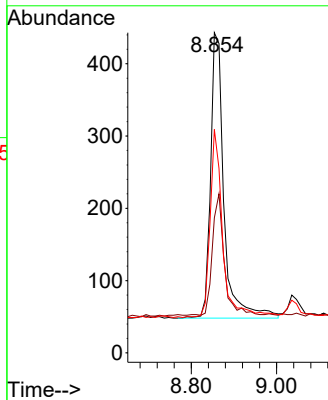
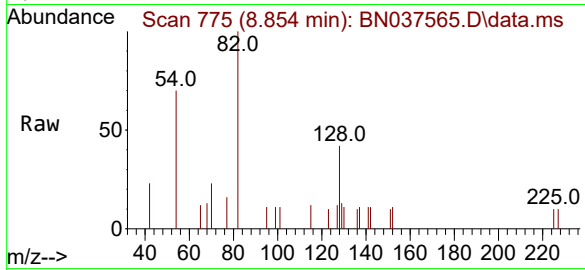




#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.854 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

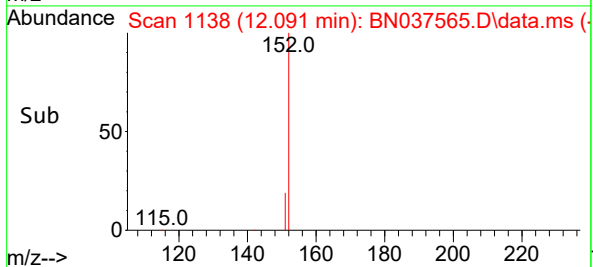
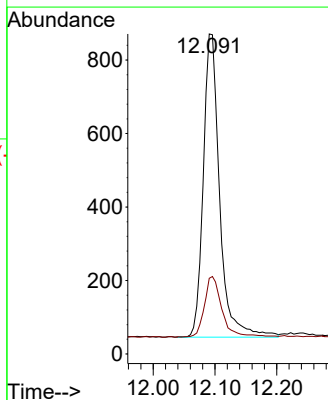
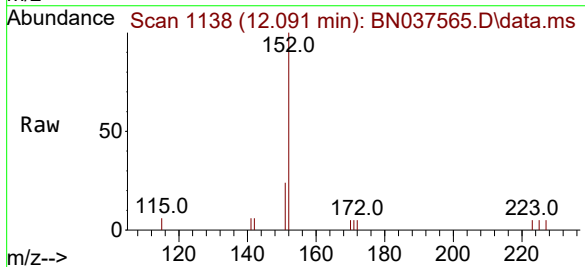
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250731

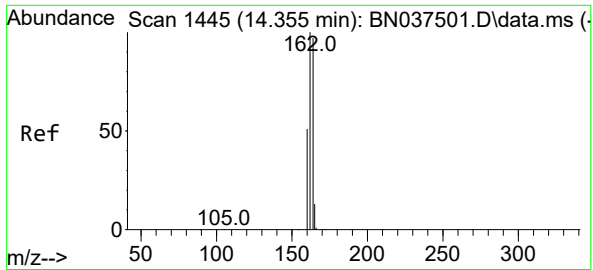
Tgt Ion: 82 Resp: 864
Ion Ratio Lower Upper
82 100
128 42.2 37.5 56.3
54 69.8 45.3 67.9#



#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.010 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

Tgt Ion: 152 Resp: 1516
Ion Ratio Lower Upper
152 100
151 21.6 16.8 25.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.345 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN037565.D

Acq: 05 Aug 2025 13:11

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20250731

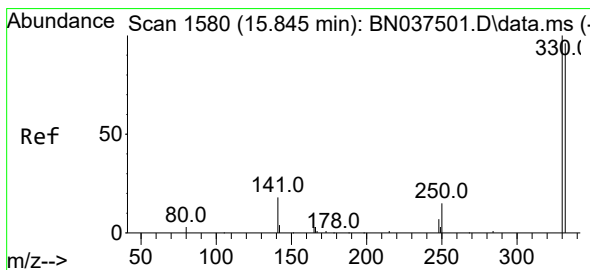
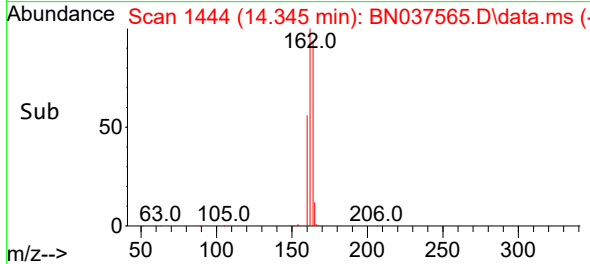
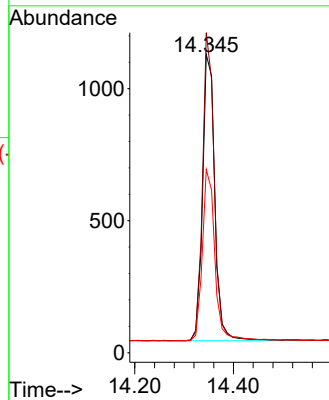
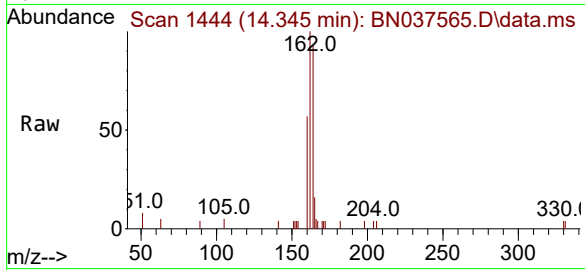
Tgt Ion:164 Resp: 1847

Ion Ratio Lower Upper

164 100

162 107.4 82.0 123.0

160 61.5 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 0.269 ng

RT: 15.833 min Scan# 1579

Delta R.T. -0.012 min

Lab File: BN037565.D

Acq: 05 Aug 2025 13:11

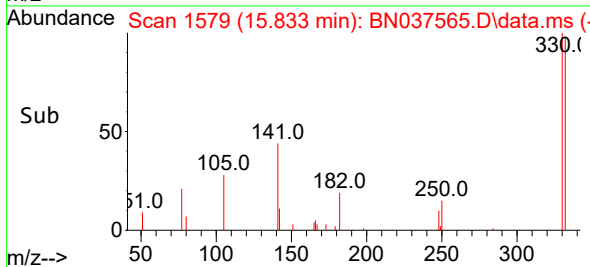
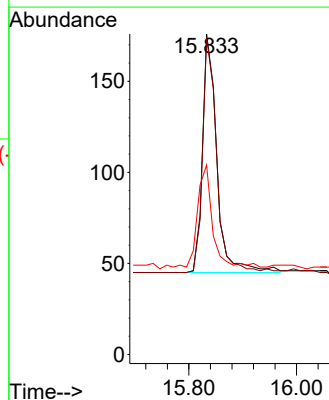
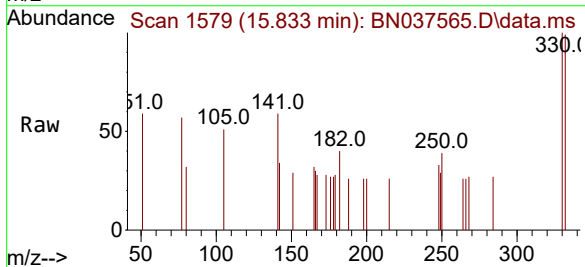
Tgt Ion:330 Resp: 244

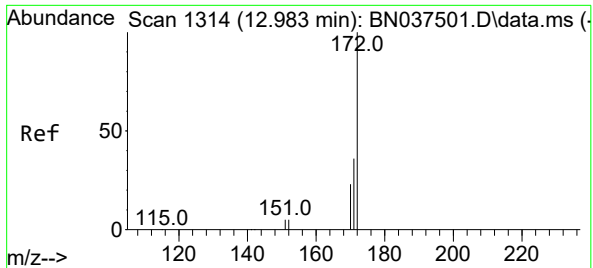
Ion Ratio Lower Upper

330 100

332 96.3 76.1 114.1

141 45.9 33.4 50.0

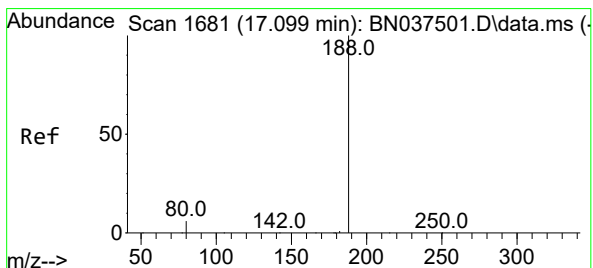
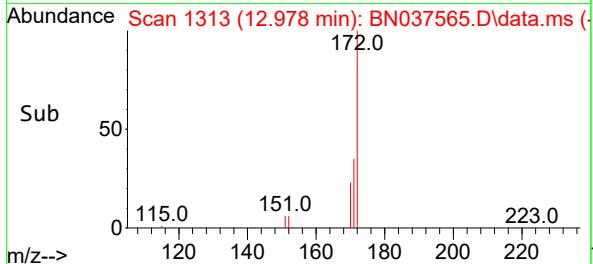
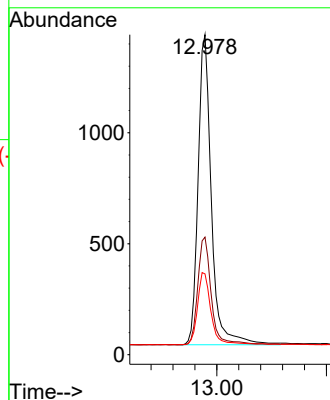
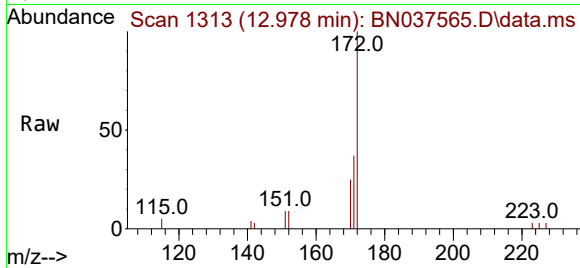




#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

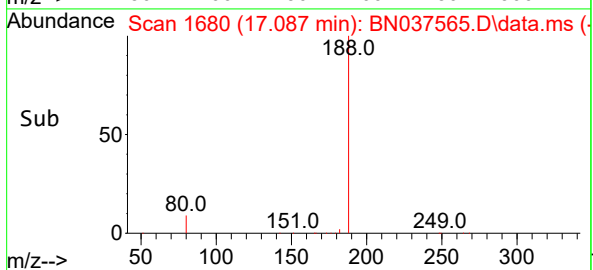
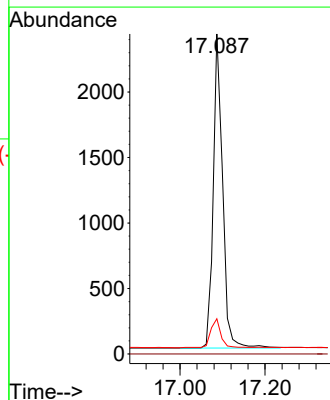
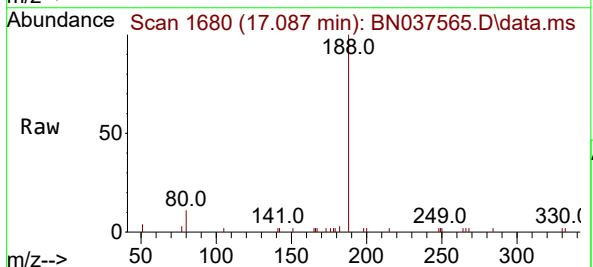
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250731

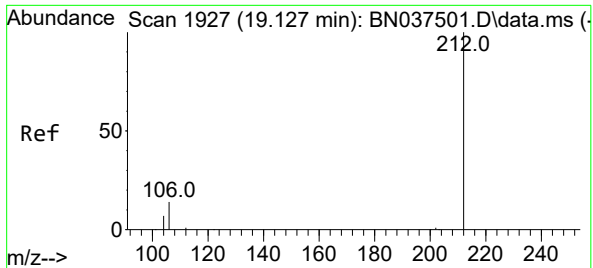
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.4	44.2
170	25.2	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	6.0	9.0#





#27

Fluoranthene-d10

Concen: 0.354 ng

RT: 19.123 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037565.D

Acq: 05 Aug 2025 13:11

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20250731

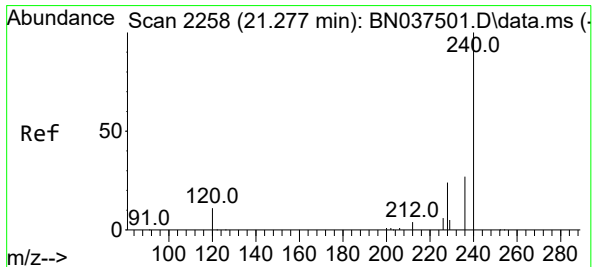
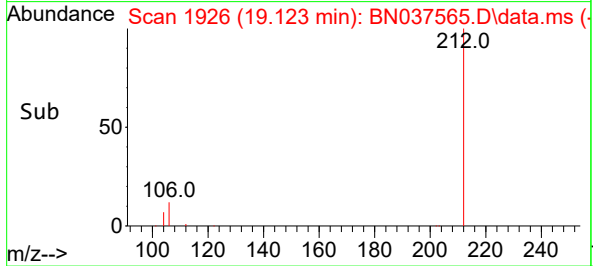
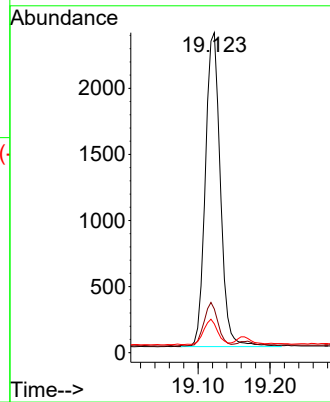
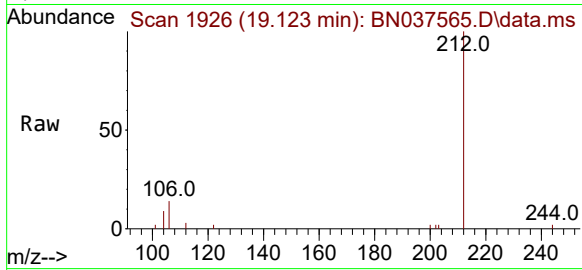
Tgt Ion:212 Resp: 3436

Ion Ratio Lower Upper

212 100

106 12.8 12.2 18.4

104 7.3 6.7 10.1



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 2258

Delta R.T. 0.000 min

Lab File: BN037565.D

Acq: 05 Aug 2025 13:11

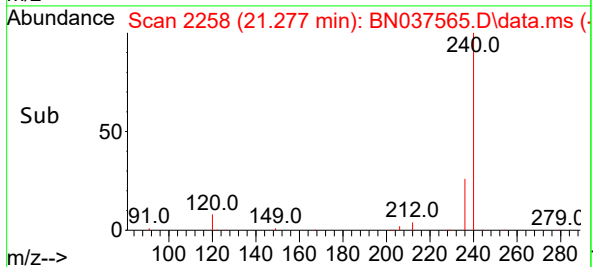
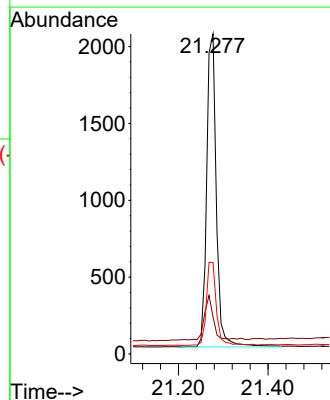
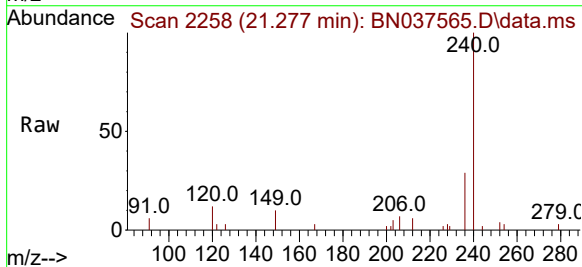
Tgt Ion:240 Resp: 3062

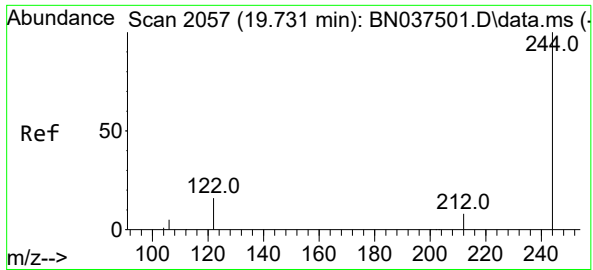
Ion Ratio Lower Upper

240 100

120 11.6 10.7 16.1

236 28.6 22.6 33.8

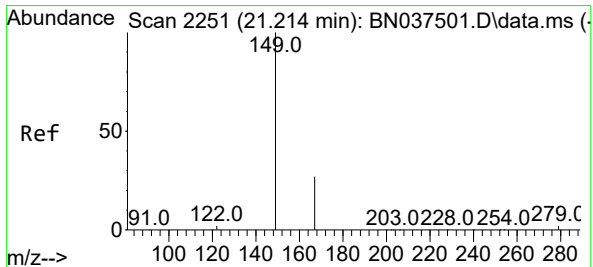
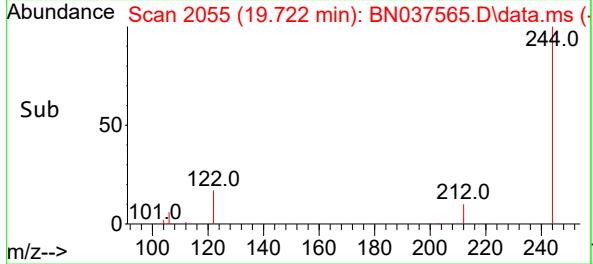
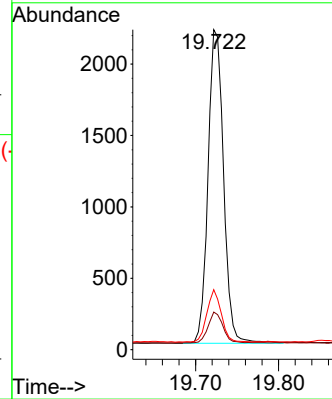
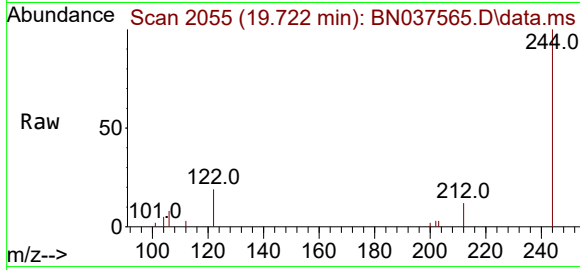




#31
Terphenyl-d14
Concen: 0.436 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.009 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

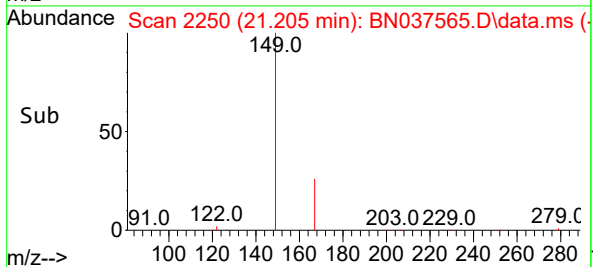
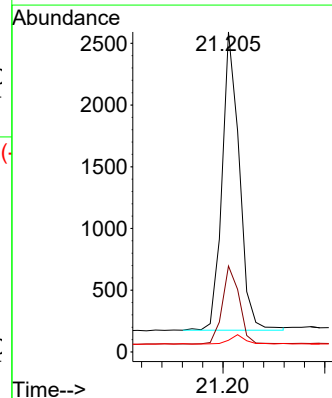
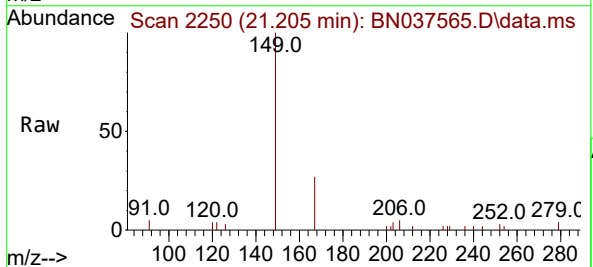
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250731

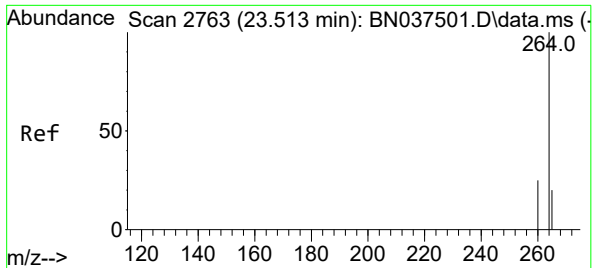
Tgt Ion:244 Resp: 2870
Ion Ratio Lower Upper
244 100
212 11.7 7.4 11.2#
122 18.7 13.6 20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.589 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN037565.D
Acq: 05 Aug 2025 13:11

Tgt Ion:149 Resp: 2840
Ion Ratio Lower Upper
149 100
167 25.8 21.8 32.8
279 3.0 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037565.D

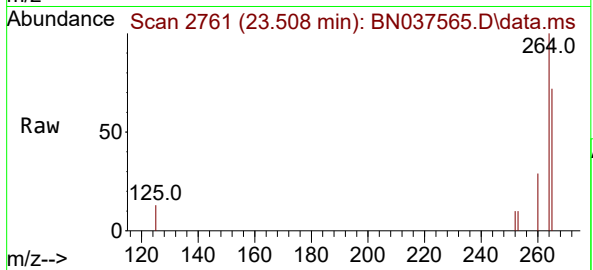
Acq: 05 Aug 2025 13:11

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20250731



Tgt Ion:264 Resp: 2537

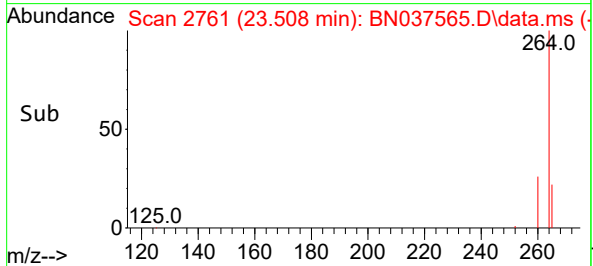
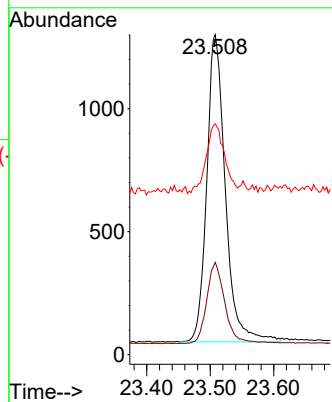
Ion	Ratio	Lower	Upper

264	100		

260	28.8	21.2	31.8

265	72.2	40.4	60.6

#





CALIBRATION SUMMARY

- 1
- 2
- 3
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- 15
- 16
- 17

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN071525.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jul 16 02:38:11 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037499.D 0.2 =BN037500.D 0.4 =BN037501.D 0.8 =BN037502.D 1.6 =BN037503.D 3.2 =BN037504.D 5 =BN037505.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	0.409	0.395	0.371	0.398	0.380	0.354	0.385	5.29	
3)	n-Nitrosodimet...	0.466	0.464	0.465	0.508	0.499	0.501	0.484	4.31	
4) S	2-Fluorophenol	1.038	1.011	0.985	0.908	0.982	0.971	1.030	0.989	4.42
5) S	Phenol-d6	1.448	1.238	1.190	1.105	1.201	1.229	1.275	1.241	8.52
6)	bis(2-Chloroet...	1.082	1.052	1.024	0.983	1.037	1.033	1.016	1.033	2.99
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.311	0.288	0.283	0.270	0.300	0.305	0.336	0.299	7.20
9)	Naphthalene	1.069	1.054	1.046	1.009	1.091	1.073	1.126	1.067	3.45
10)	Hexachlorobuta...	0.229	0.237	0.235	0.223	0.245	0.236	0.246	0.236	3.44
11) SURR2	Methylnaphth...	0.556	0.534	0.541	0.522	0.562	0.590	0.711	0.574	11.24
12)	2-Methylnaphth...	0.704	0.655	0.678	0.665	0.716	0.736	0.756	0.701	5.34
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.197	0.173	0.173	0.176	0.194	0.215	0.248	0.197	13.98
15) S	2-Fluorobiphenyl	1.818	1.794	2.045	2.024	2.277	2.205	2.397	2.080	10.91
16)	Acenaphthylene	1.723	1.708	1.719	1.684	1.830	1.895	1.981	1.792	6.30
17)	Acenaphthene	1.239	1.160	1.172	1.150	1.238	1.251	1.320	1.218	5.03
18)	Fluorene	1.592	1.488	1.485	1.486	1.605	1.606	1.717	1.569	5.56
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.044	0.041	0.047	0.057	0.070	0.080	0.057	27.89	
21)	4-Bromophenyl-...	0.248	0.247	0.243	0.242	0.268	0.272	0.274	0.256	5.58
22)	Hexachlorobenzene	0.315	0.330	0.328	0.321	0.345	0.340	0.338	0.331	3.26
23)	Atrazine	0.173	0.161	0.159	0.158	0.181	0.200	0.220	0.179	13.24
24)	Pentachlorophenol	0.131	0.125	0.126	0.151	0.170	0.189	0.149	17.64	
25)	Phenanthrene	1.167	1.163	1.160	1.129	1.248	1.248	1.273	1.198	4.70
26)	Anthracene	1.025	1.025	1.013	1.023	1.160	1.176	1.232	1.093	8.45
27) SURR	Fluoranthene-d10	1.023	0.998	0.962	0.928	1.041	1.078	1.385	1.060	14.34
28)	Fluoranthene	1.358	1.310	1.290	1.270	1.429	1.431	1.585	1.382	7.96
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.754	1.559	1.607	1.549	1.607	1.665	1.539	1.612	4.74
31) S	Terphenyl-d14	0.926	0.815	0.844	0.811	0.854	0.902	0.865	0.859	4.94
32)	Benzo(a)anthra...	1.414	1.357	1.341	1.285	1.429	1.464	1.517	1.401	5.63
33)	Chrysene	1.452	1.461	1.434	1.358	1.488	1.490	1.528	1.459	3.70
34)	Bis(2-ethylhex...	0.603	0.564	0.538	0.603	0.693	0.779	0.630	14.26	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN071525.M

36)	Indeno(1,2,3-c...	1.493	1.528	1.514	1.559	1.771	1.805	1.991	1.666	11.48
37)	Benzo(b)fluora...	1.464	1.378	1.454	1.436	1.589	1.617	1.692	1.518	7.53
38)	Benzo(k)fluora...	1.516	1.420	1.486	1.470	1.661	1.689	1.724	1.567	7.75
39) C	Benzo(a)pyrene	1.189	1.152	1.192	1.176	1.320	1.369	1.469	1.267	9.51
40)	Dibenzo(a,h)an...	1.201	1.218	1.216	1.256	1.444	1.483	1.627	1.349	12.46
41)	Benzo(g,h,i)pe...	1.247	1.283	1.309	1.297	1.482	1.497	1.663	1.397	10.98

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037499.D
 Acq On : 15 Jul 2025 12:36
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jul 15 17:25:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 16:45:15 2025
 Response via : Initial Calibration

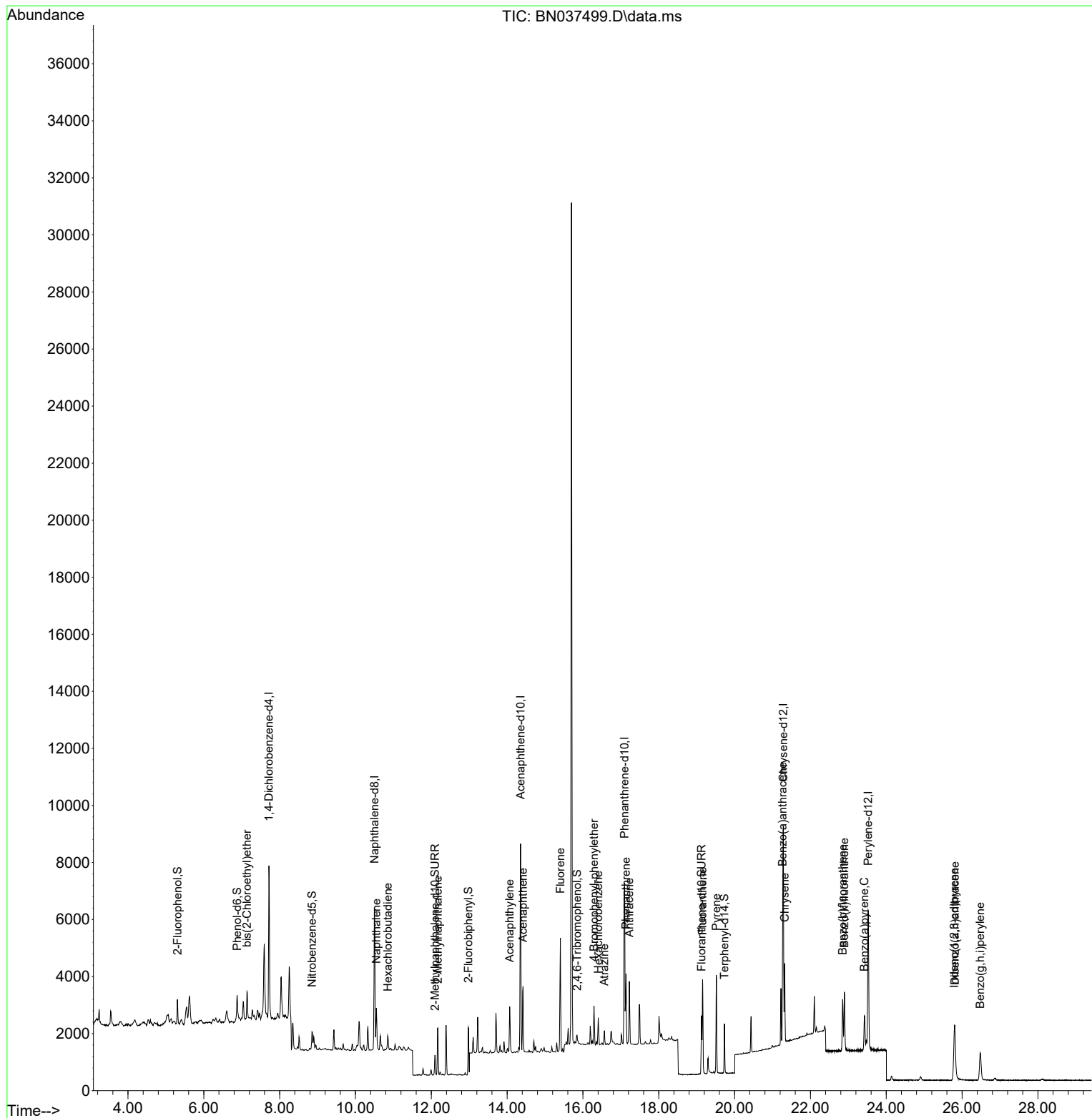
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2613	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	6917	0.400	ng	#-0.01
13) Acenaphthene-d10	14.355	164	4050	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	8501	0.400	ng	0.00
29) Chrysene-d12	21.286	240	6753	0.400	ng	0.00
35) Perylene-d12	23.522	264	6399	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	678	0.105	ng	0.00
5) Phenol-d6	6.879	99	946	0.117	ng	0.00
8) Nitrobenzene-d5	8.854	82	538	0.104	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	962	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	199	0.100	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	1841	0.087	ng	0.00
27) Fluoranthene-d10	19.127	212	2175	0.097	ng	0.00
31) Terphenyl-d14	19.731	244	1563	0.108	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.139	93	707	0.105	ng	Qvalue 97
9) Naphthalene	10.551	128	1848	0.100	ng	# 93
10) Hexachlorobutadiene	10.850	225	396	0.097	ng	# 100
12) 2-Methylnaphthalene	12.172	142	1218	0.100	ng	98
16) Acenaphthylene	14.067	152	1745	0.096	ng	97
17) Acenaphthene	14.420	154	1254	0.102	ng	98
18) Fluorene	15.403	166	1612	0.101	ng	97
21) 4-Bromophenyl-phenylether	16.292	248	527	0.097	ng	98
22) Hexachlorobenzene	16.404	284	670	0.095	ng	100
23) Atrazine	16.565	200	368	0.097	ng	# 81
25) Phenanthrene	17.136	178	2480	0.097	ng	99
26) Anthracene	17.223	178	2179	0.094	ng	100
28) Fluoranthene	19.155	202	2886	0.098	ng	98
30) Pyrene	19.517	202	2961	0.109	ng	100
32) Benzo(a)anthracene	21.268	228	2388	0.101	ng	97
33) Chrysene	21.322	228	2451	0.100	ng	98
36) Indeno(1,2,3-cd)pyrene	25.791	276	2389	0.090	ng	96
37) Benzo(b)fluoranthene	22.850	252	2342	0.096	ng	# 85
38) Benzo(k)fluoranthene	22.896	252	2426	0.097	ng	# 73
39) Benzo(a)pyrene	23.426	252	1902	0.094	ng	# 77
40) Dibenzo(a,h)anthracene	25.811	278	1921	0.089	ng	# 78
41) Benzo(g,h,i)perylene	26.478	276	1995	0.089	ng	90

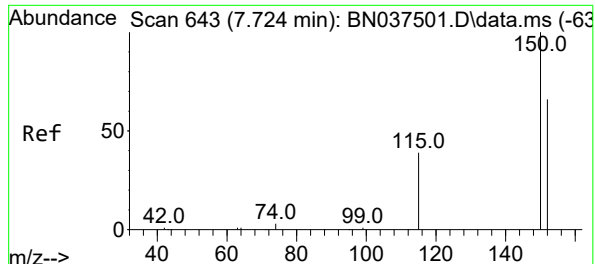
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037499.D
Acq On : 15 Jul 2025 12:36
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jul 15 17:25:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration

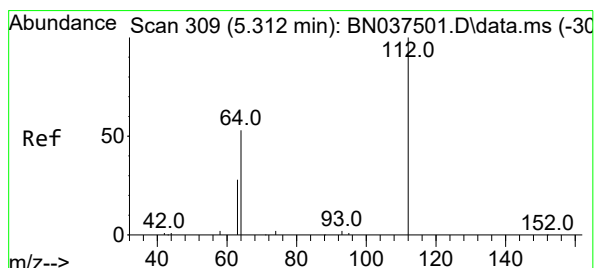
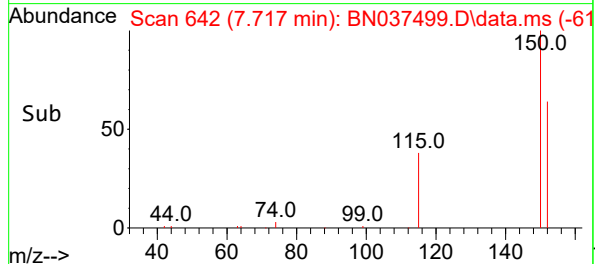
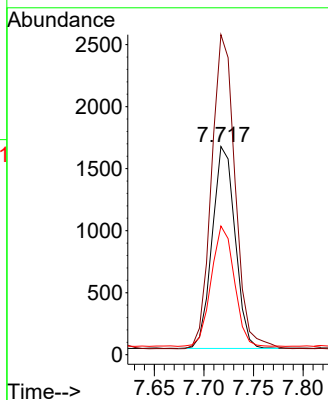
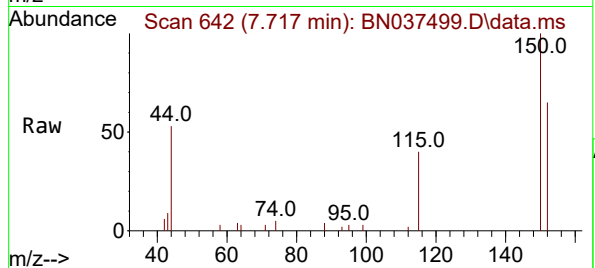




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 643
Delta R.T. -0.007 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

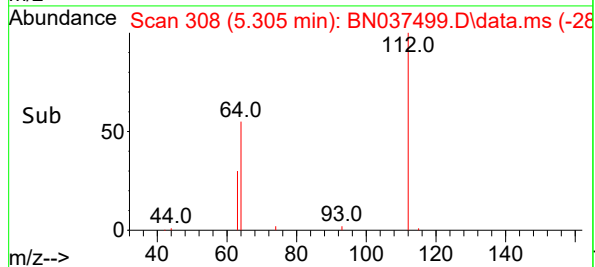
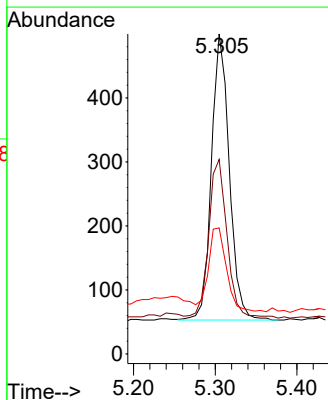
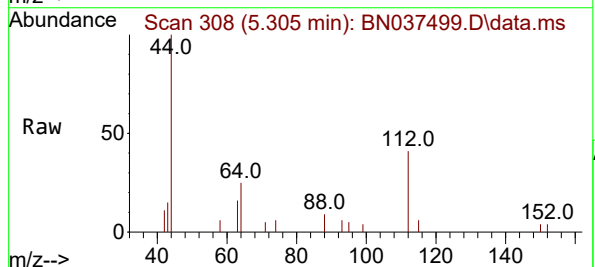
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

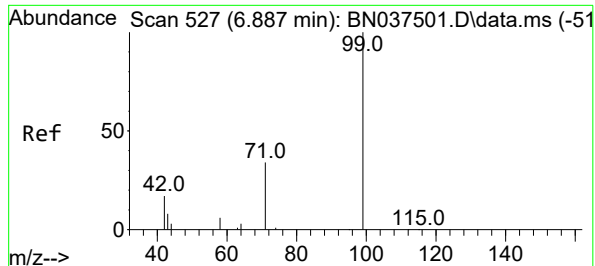
Tgt Ion:152 Resp: 2613
Ion Ratio Lower Upper
152 100
150 153.7 119.8 179.8
115 61.8 49.1 73.7



#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

Tgt Ion:112 Resp: 678
Ion Ratio Lower Upper
112 100
64 57.5 45.1 67.7
63 29.1 23.8 35.8

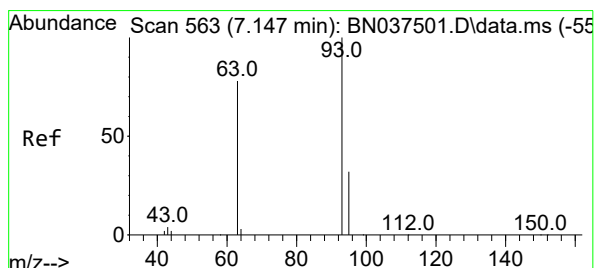
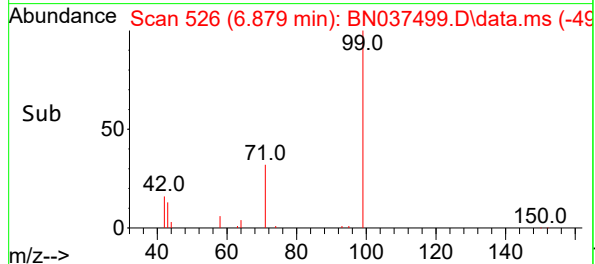
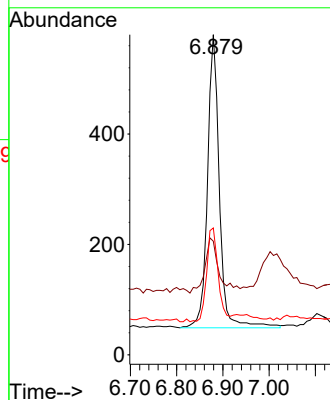
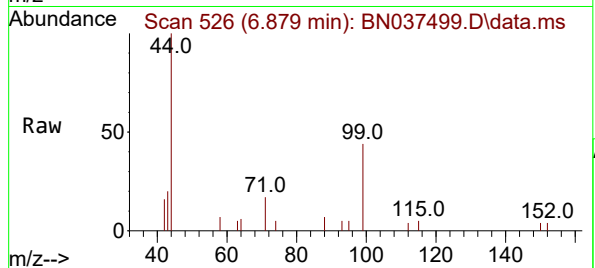




#5
Phenol-d6
Concen: 0.117 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

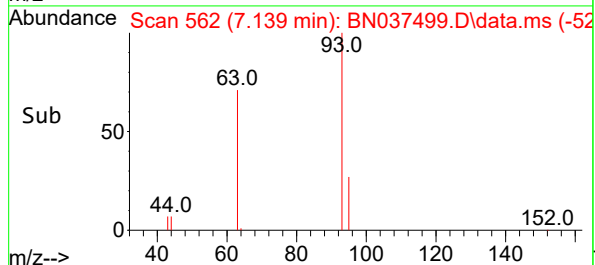
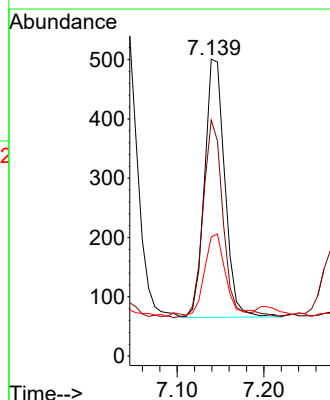
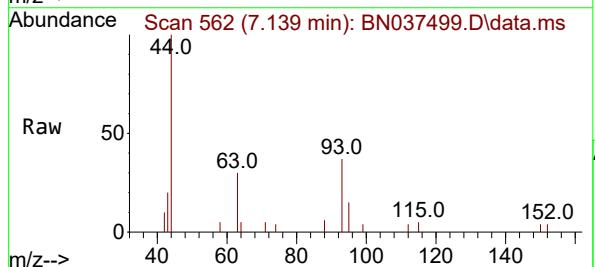
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

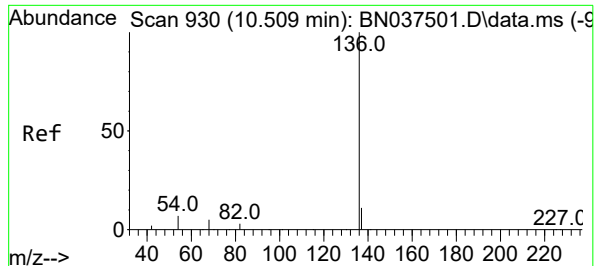
Tgt Ion: 99 Resp: 946
Ion Ratio Lower Upper
99 100
42 22.3 17.1 25.7
71 31.1 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.105 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.007 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

Tgt Ion: 93 Resp: 707
Ion Ratio Lower Upper
93 100
63 75.8 58.2 87.4
95 33.2 25.3 37.9

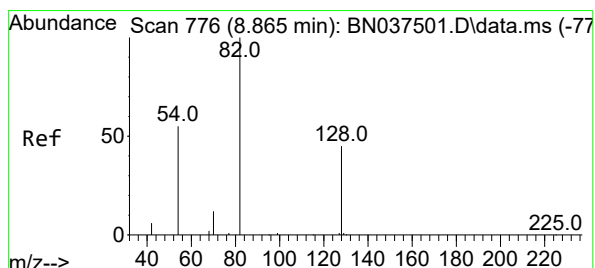
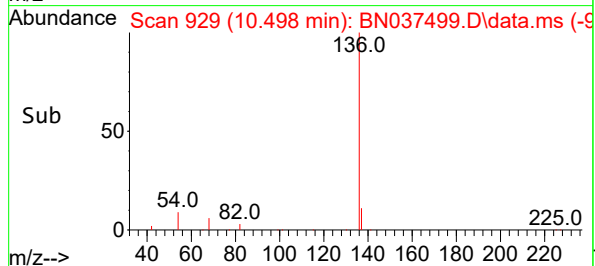
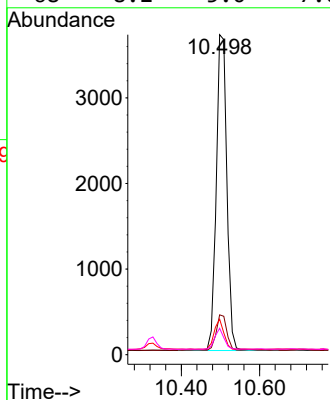
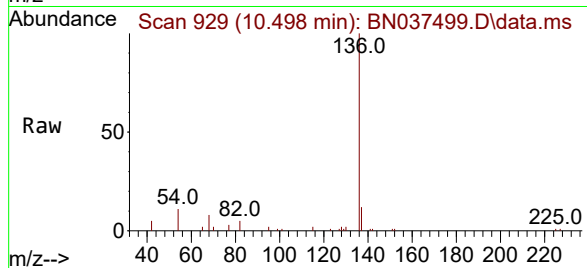




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

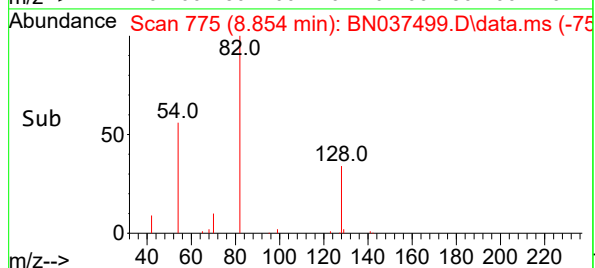
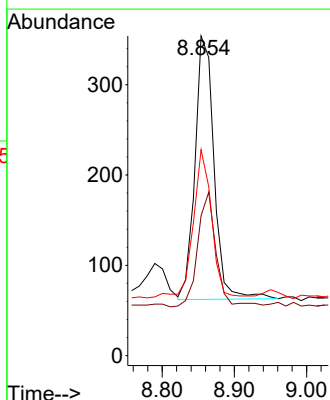
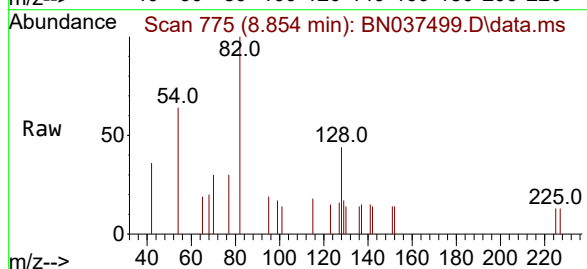
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

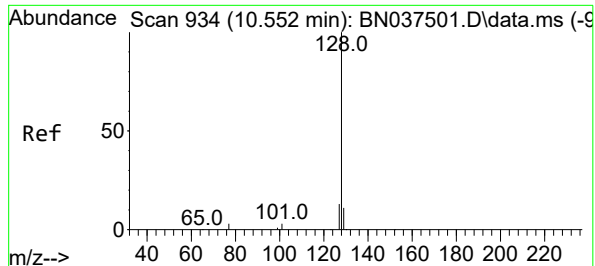
Tgt Ion:136 Resp: 6917
Ion Ratio Lower Upper
136 100
137 12.5 9.8 14.8
54 11.1 6.6 9.8#
68 8.2 5.0 7.6#



#8
Nitrobenzene-d5
Concen: 0.104 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.011 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

Tgt Ion: 82 Resp: 538
Ion Ratio Lower Upper
82 100
128 43.8 37.5 56.3
54 64.4 45.3 67.9





#9

Naphthalene

Concen: 0.100 ng

RT: 10.551 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

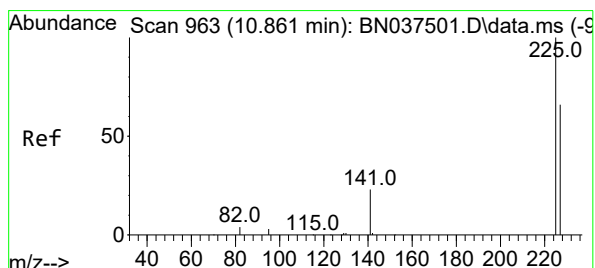
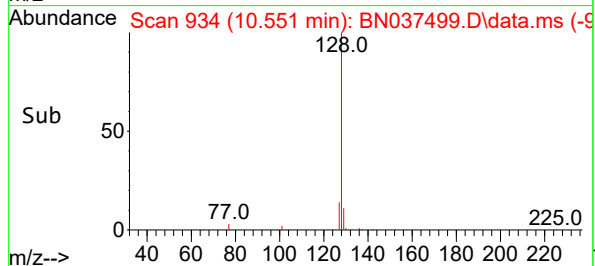
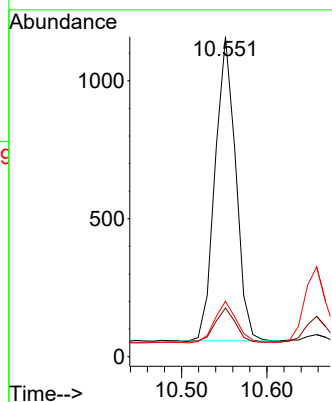
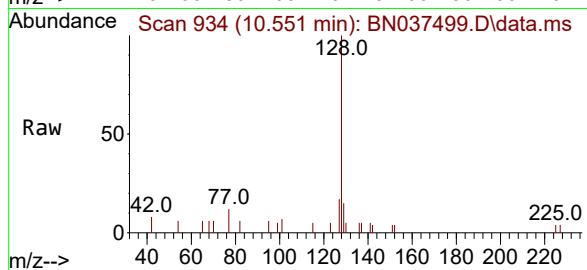
Tgt Ion:128 Resp: 1848

Ion Ratio Lower Upper

128 100

129 15.2 9.7 14.5#

127 17.3 11.5 17.3#



#10

Hexachlorobutadiene

Concen: 0.097 ng

RT: 10.850 min Scan# 962

Delta R.T. -0.011 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

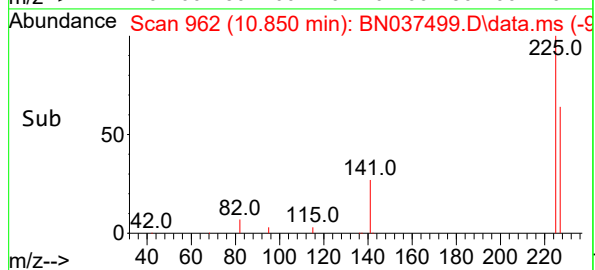
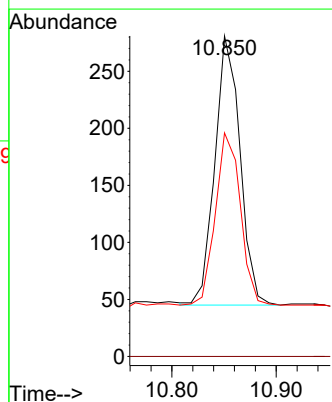
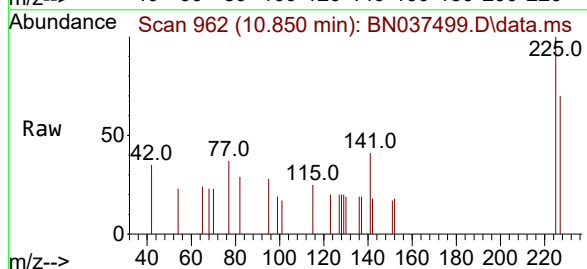
Tgt Ion:225 Resp: 396

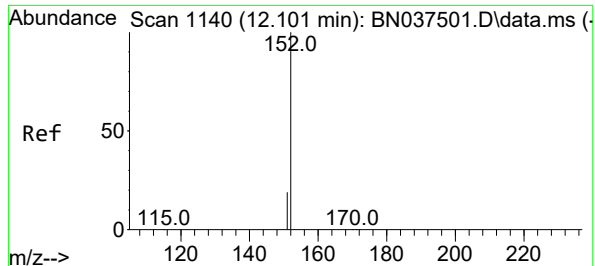
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.4 51.0 76.4

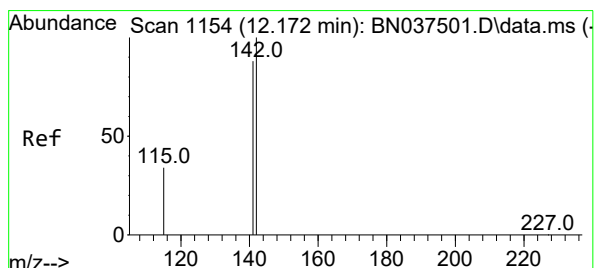
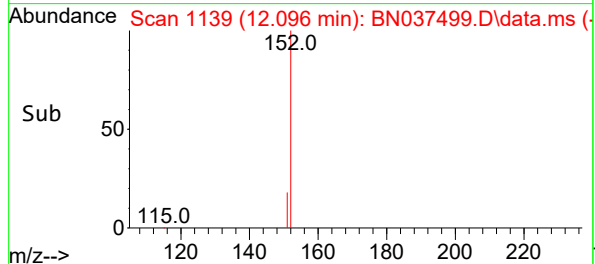
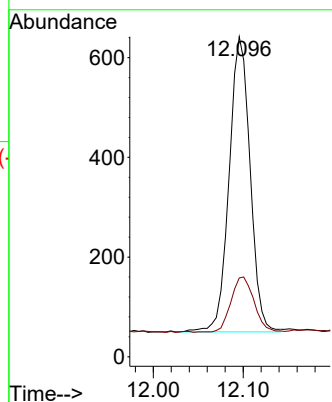
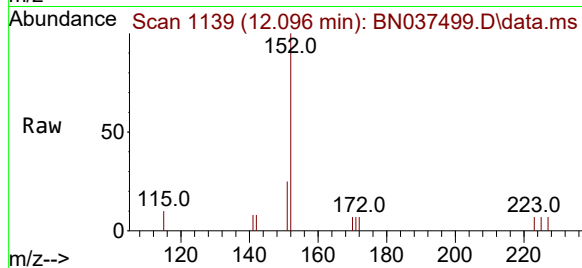




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

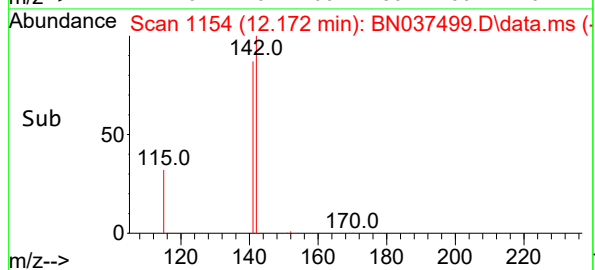
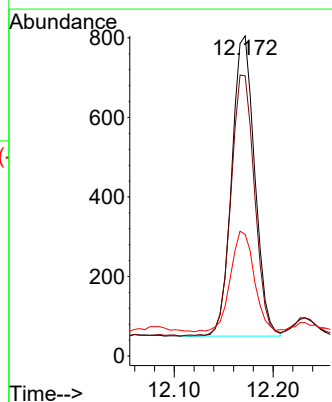
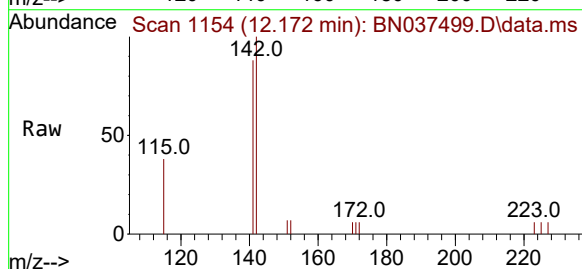
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

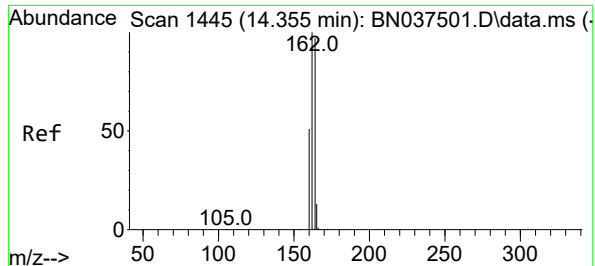
Tgt Ion:152 Resp: 962
Ion Ratio Lower Upper
152 100
151 20.3 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.100 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

Tgt Ion:142 Resp: 1218
Ion Ratio Lower Upper
142 100
141 87.6 71.0 106.4
115 38.0 29.0 43.4

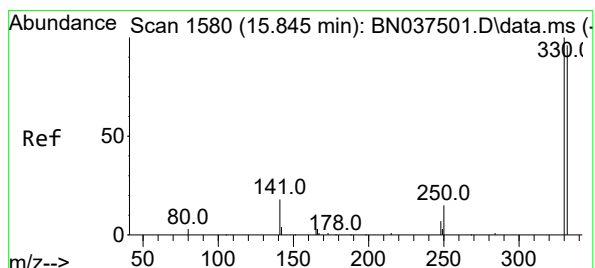
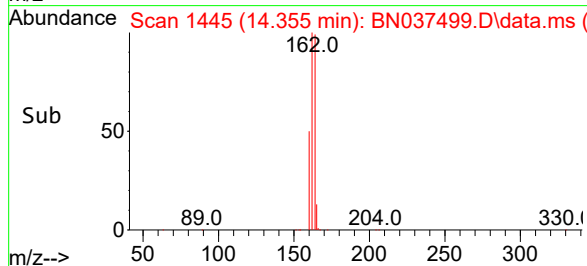
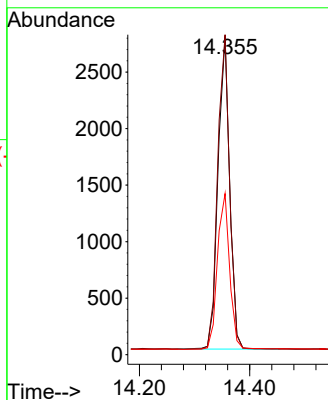
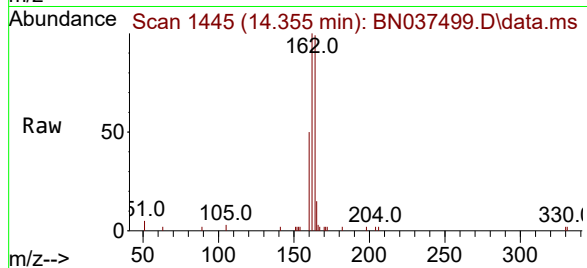




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

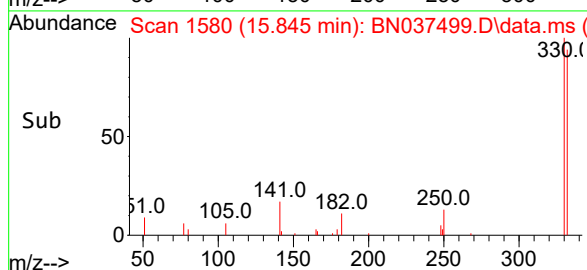
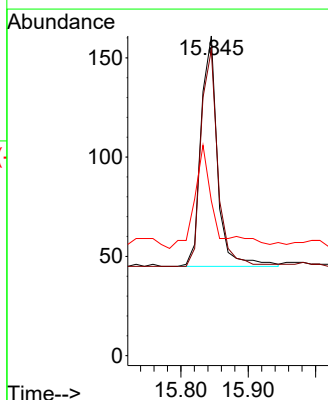
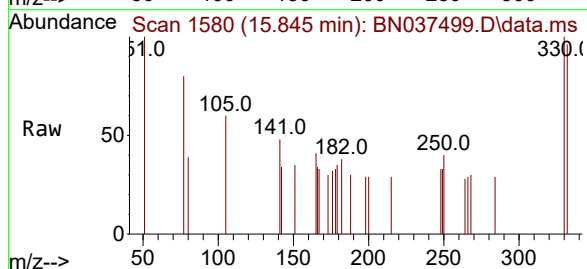
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

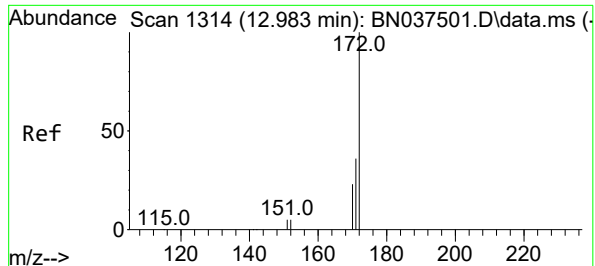
Tgt Ion:164 Resp: 4050
Ion Ratio Lower Upper
164 100
162 100.5 82.0 123.0
160 50.6 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

Tgt Ion:330 Resp: 199
Ion Ratio Lower Upper
330 100
332 96.0 76.1 114.1
141 44.7 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.087 ng

RT: 12.978 min Scan# 1313

Delta R.T. -0.005 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

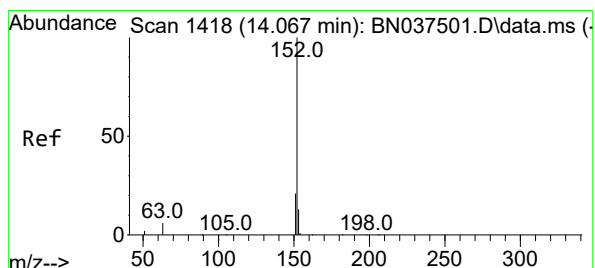
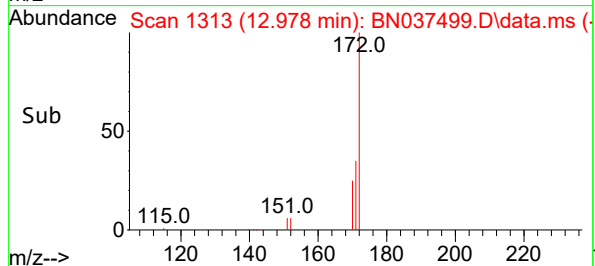
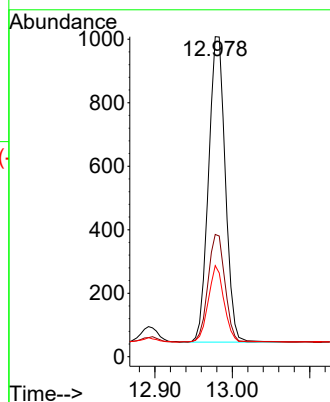
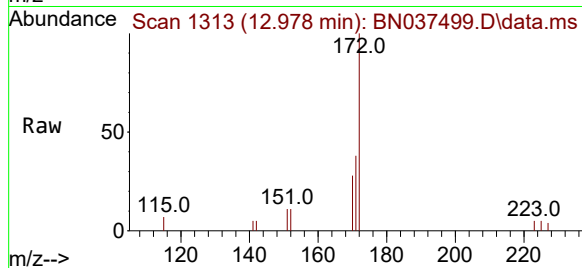
Tgt Ion:172 Resp: 1841

Ion Ratio Lower Upper

172 100

171 38.2 29.4 44.2

170 28.5 19.4 29.0



#16

Acenaphthylene

Concen: 0.096 ng

RT: 14.067 min Scan# 1418

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

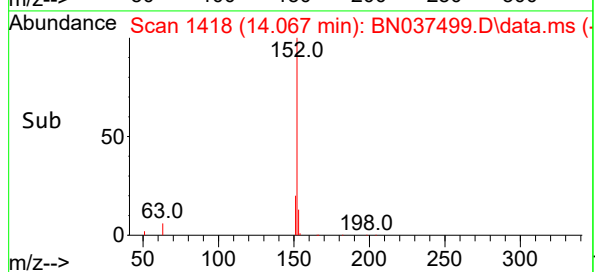
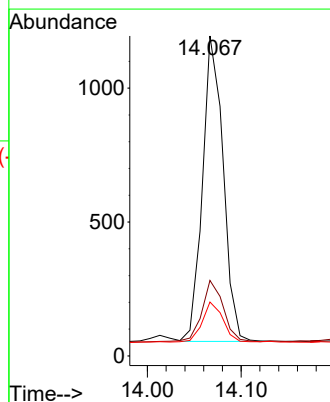
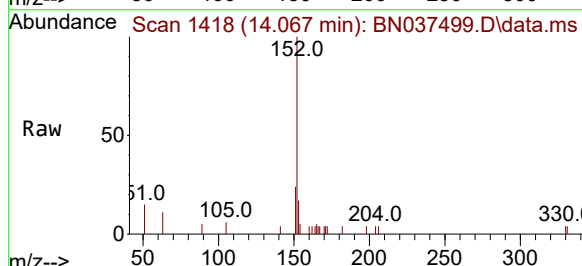
Tgt Ion:152 Resp: 1745

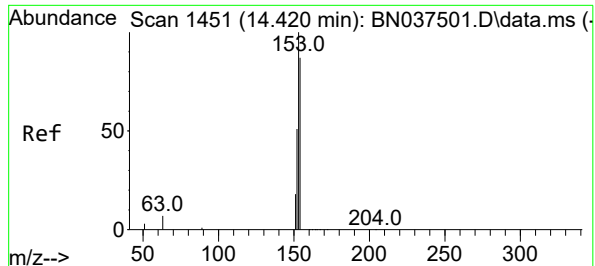
Ion Ratio Lower Upper

152 100

151 21.7 15.9 23.9

153 14.3 10.7 16.1





#17

Acenaphthene

Concen: 0.102 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

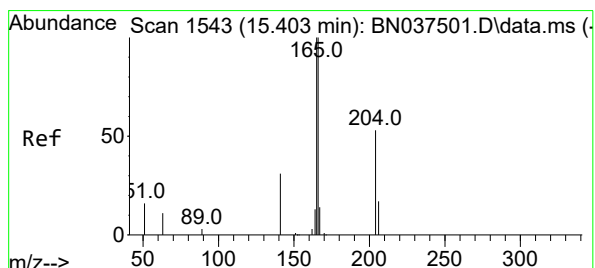
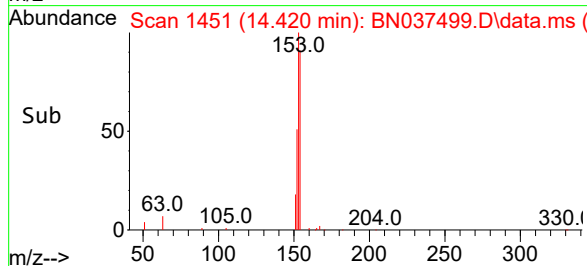
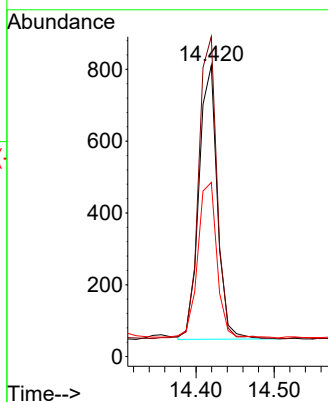
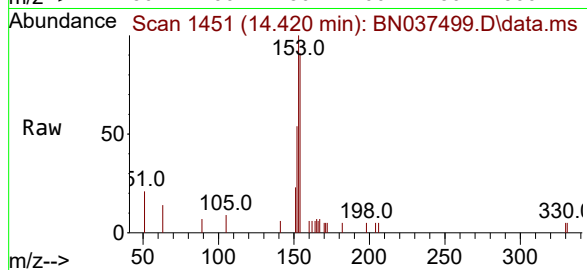
Tgt Ion:154 Resp: 1254

Ion Ratio Lower Upper

154 100

153 108.9 89.2 133.8

152 59.4 48.0 72.0



#18

Fluorene

Concen: 0.101 ng

RT: 15.403 min Scan# 1543

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

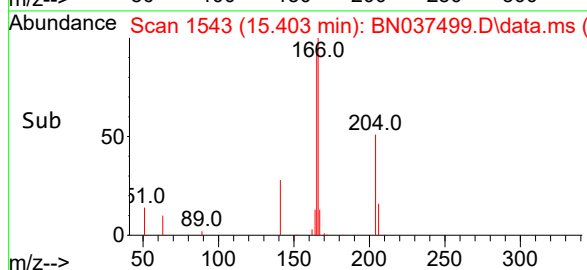
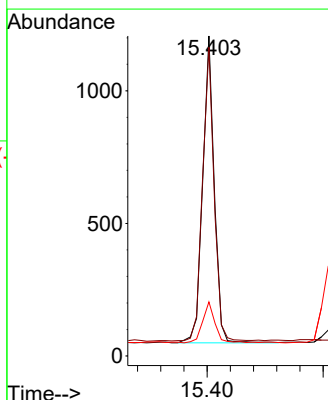
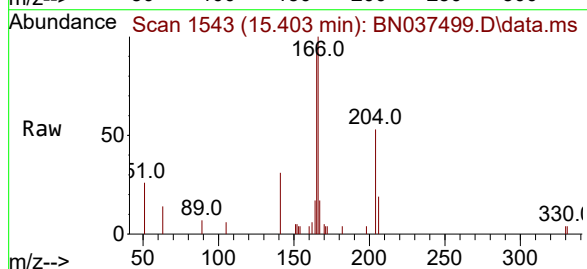
Tgt Ion:166 Resp: 1612

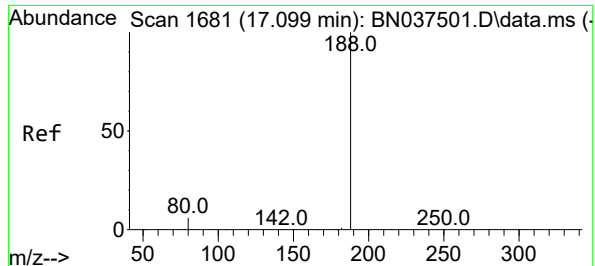
Ion Ratio Lower Upper

166 100

165 94.6 78.1 117.1

167 14.0 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

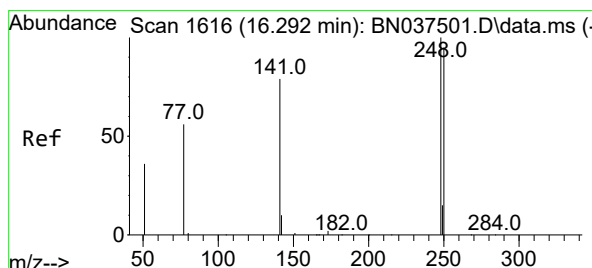
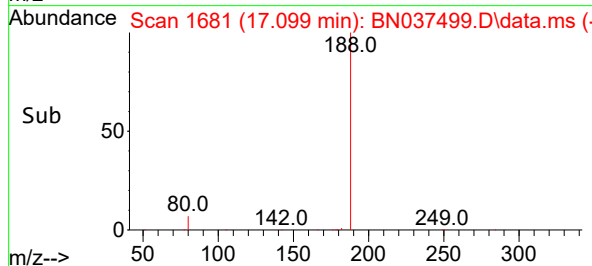
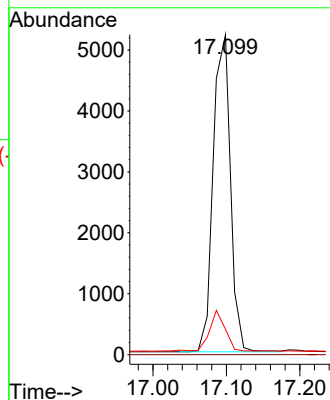
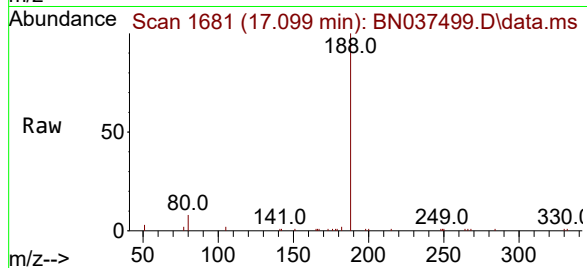
Tgt Ion:188 Resp: 8501

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.9 6.0 9.0



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.292 min Scan# 1616

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

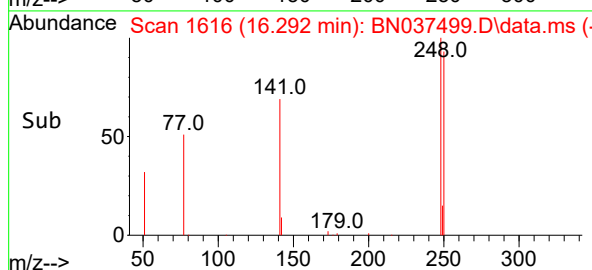
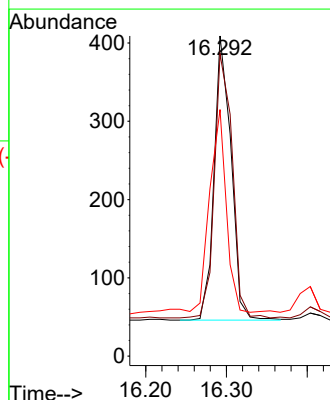
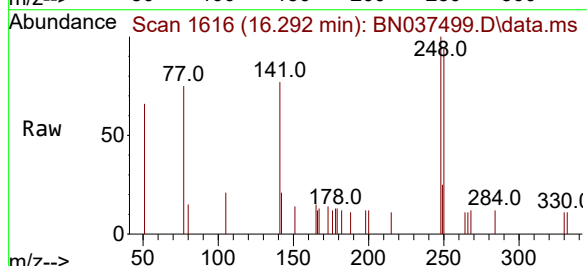
Tgt Ion:248 Resp: 527

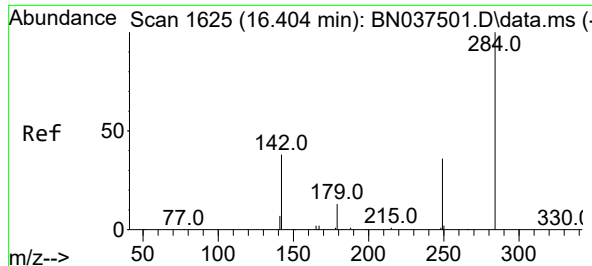
Ion Ratio Lower Upper

248 100

250 94.4 76.2 114.2

141 77.0 63.9 95.9





#22

Hexachlorobenzene

Concen: 0.095 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

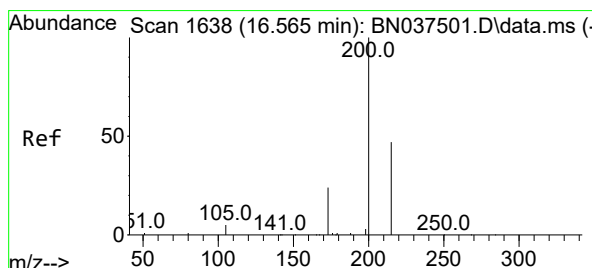
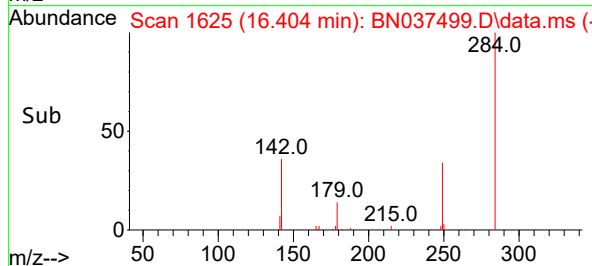
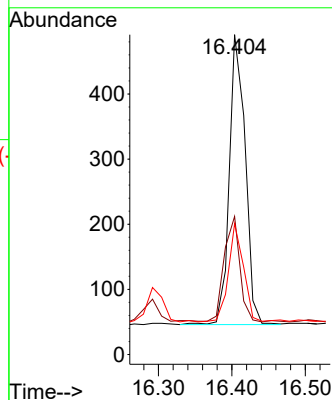
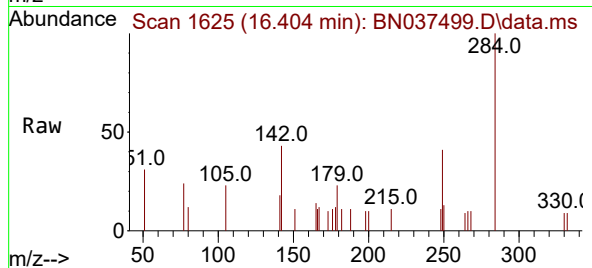
Tgt Ion:284 Resp: 670

Ion Ratio Lower Upper

284 100

142 36.1 28.9 43.3

249 32.4 25.8 38.6



#23

Atrazine

Concen: 0.097 ng

RT: 16.565 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

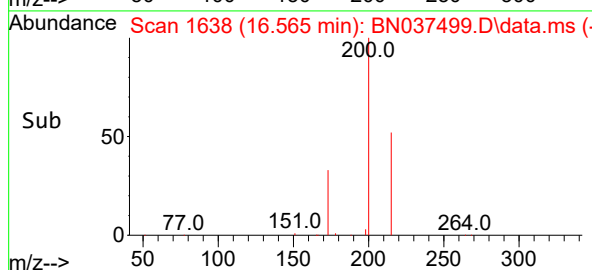
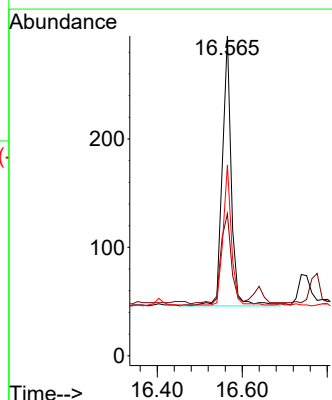
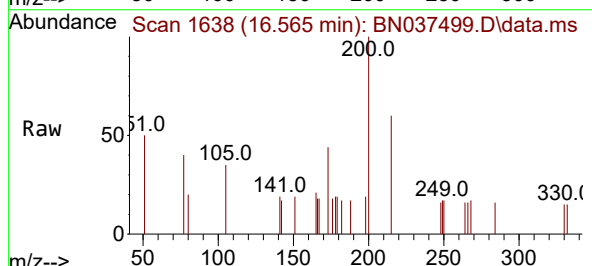
Tgt Ion:200 Resp: 368

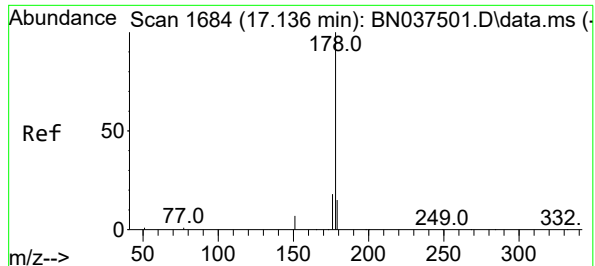
Ion Ratio Lower Upper

200 100

173 44.4 23.2 34.8#

215 59.7 40.2 60.4





#25

Phenanthrene

Concen: 0.097 ng

RT: 17.136 min Scan# 1684

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

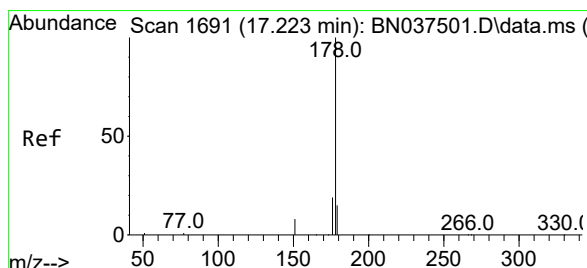
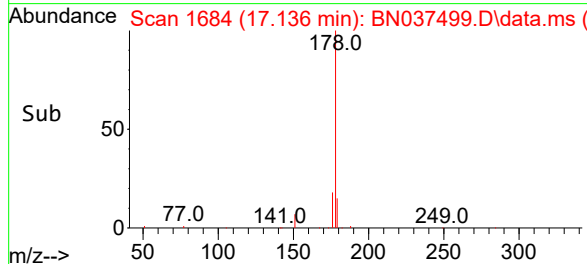
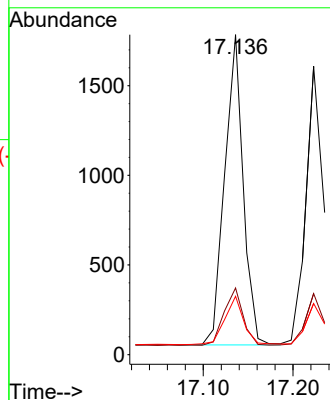
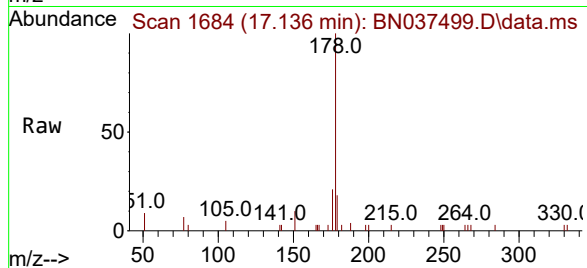
Tgt Ion:178 Resp: 2480

Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.6

179 15.8 12.2 18.2



#26

Anthracene

Concen: 0.094 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

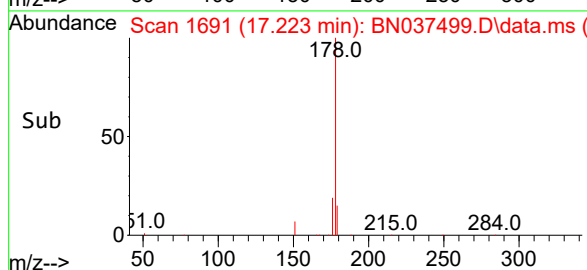
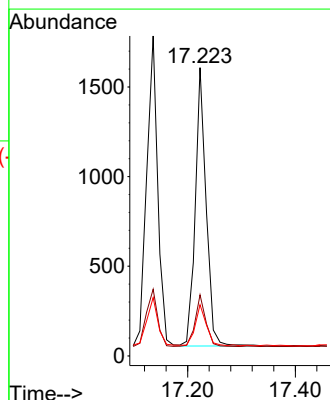
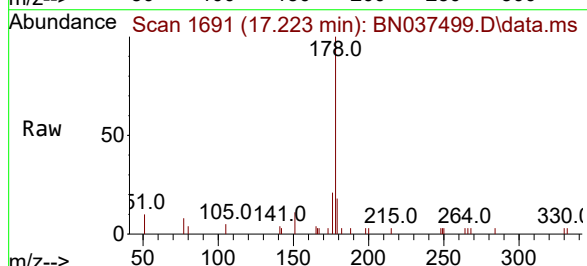
Tgt Ion:178 Resp: 2179

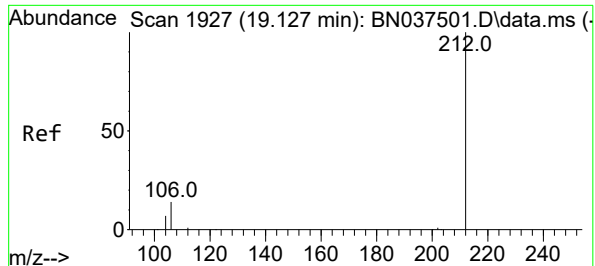
Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.097 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

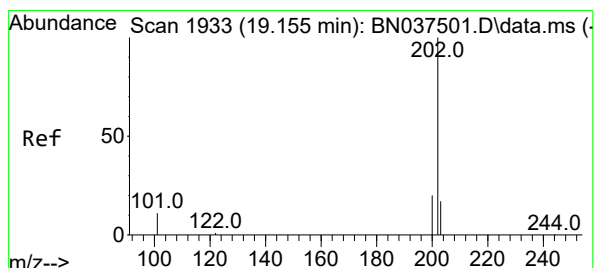
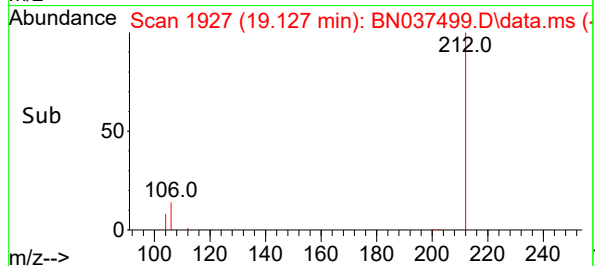
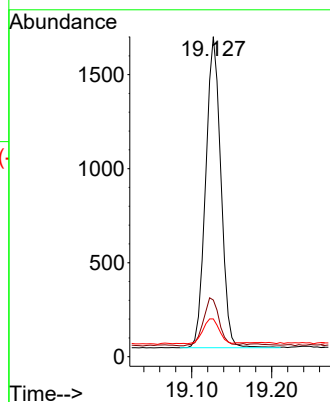
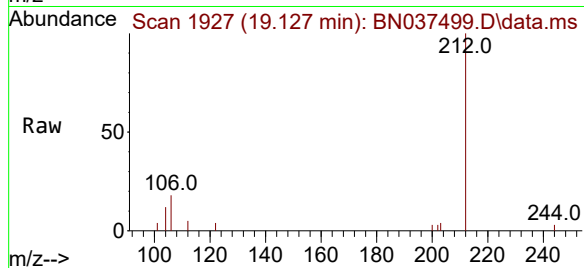
Tgt Ion:212 Resp: 2175

Ion Ratio Lower Upper

212 100

106 15.9 12.2 18.4

104 8.7 6.7 10.1



#28

Fluoranthene

Concen: 0.098 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

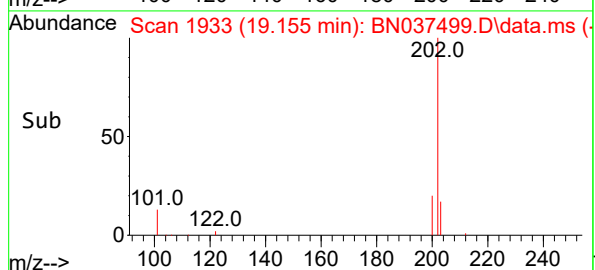
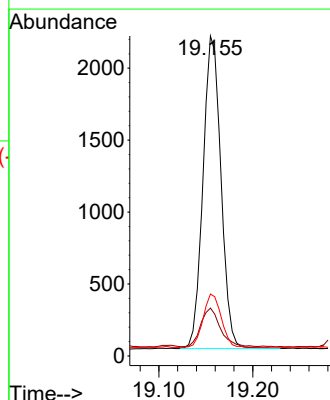
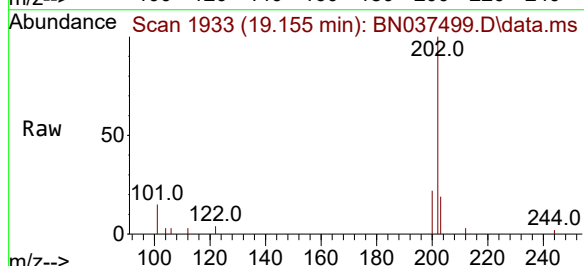
Tgt Ion:202 Resp: 2886

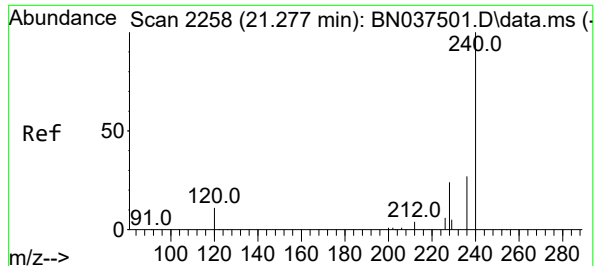
Ion Ratio Lower Upper

202 100

101 13.5 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.286 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

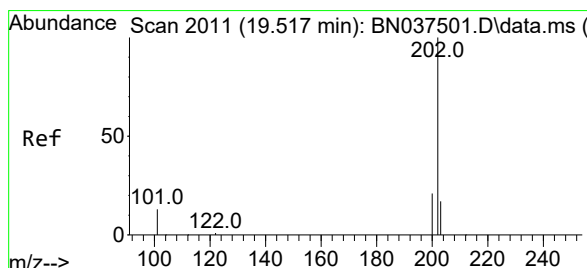
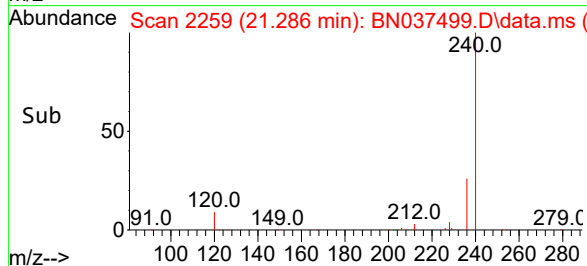
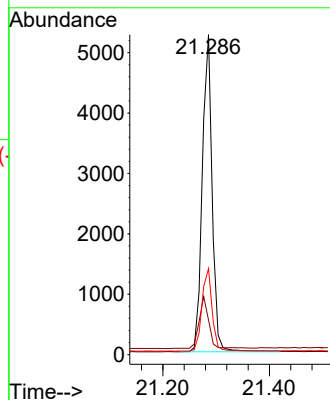
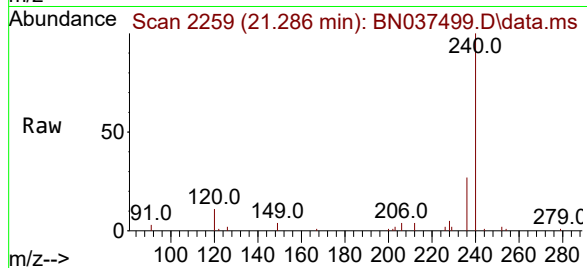
Tgt Ion:240 Resp: 6753

Ion Ratio Lower Upper

240 100

120 10.8 10.7 16.1

236 26.9 22.6 33.8



#30

Pyrene

Concen: 0.109 ng

RT: 19.517 min Scan# 2011

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

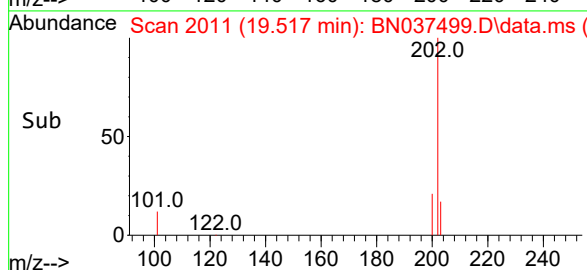
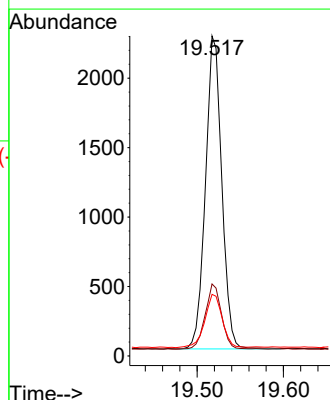
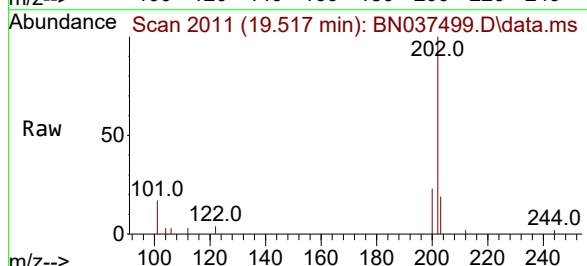
Tgt Ion:202 Resp: 2961

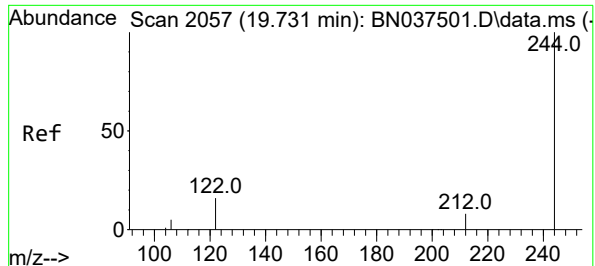
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 18.2 14.3 21.5

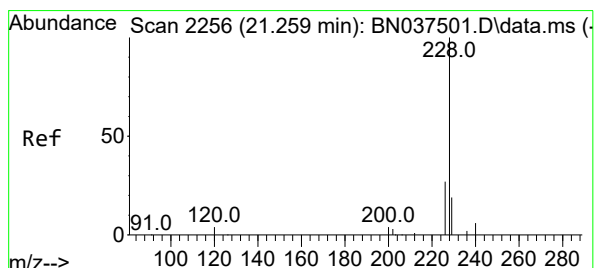
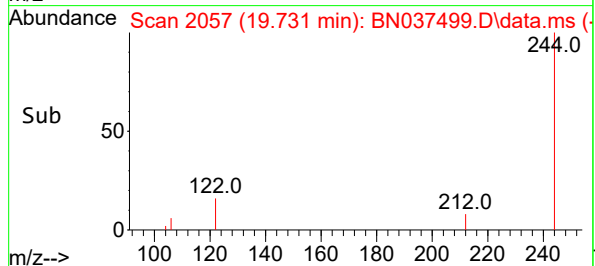
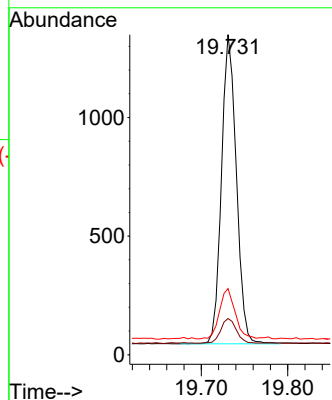
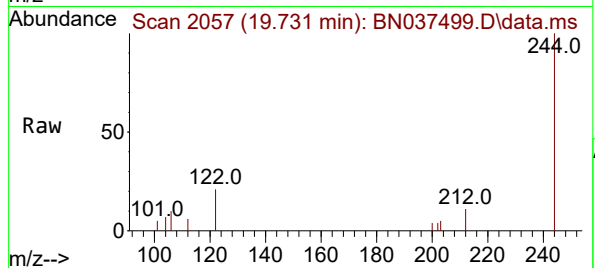




#31
Terphenyl-d14
Concen: 0.108 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

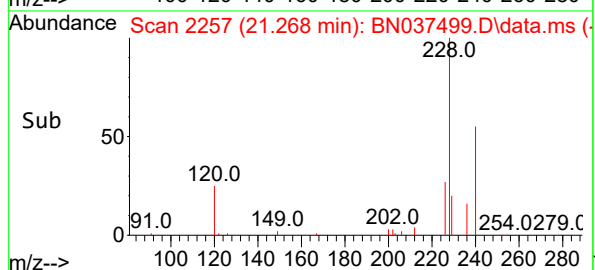
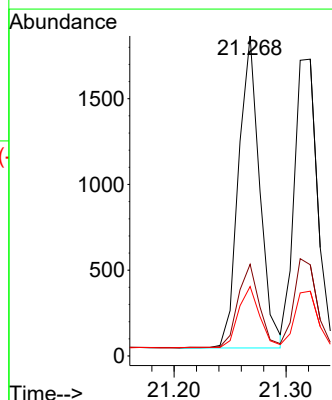
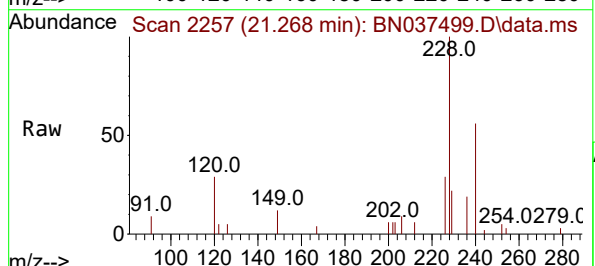
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

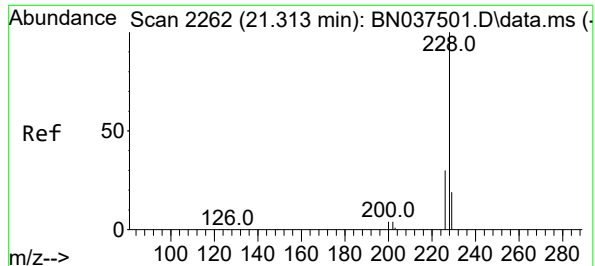
Tgt Ion:244 Resp: 1563
Ion Ratio Lower Upper
244 100
212 11.3 7.4 11.2#
122 20.7 13.6 20.4#



#32
Benzo(a)anthracene
Concen: 0.101 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.009 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

Tgt Ion:228 Resp: 2388
Ion Ratio Lower Upper
228 100
226 28.7 21.9 32.9
229 21.7 15.8 23.8





#33

Chrysene

Concen: 0.100 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

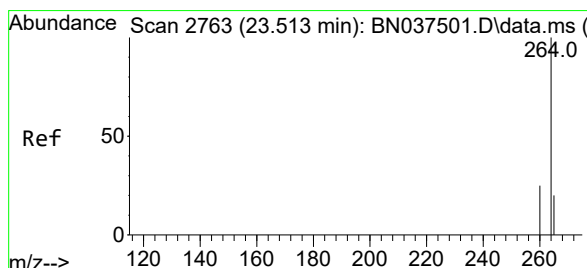
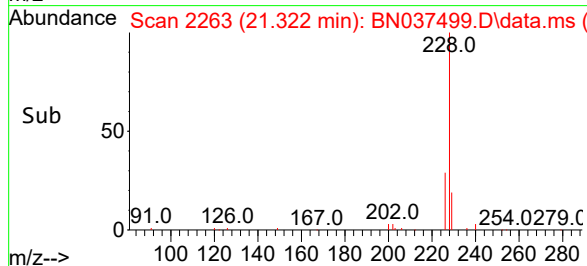
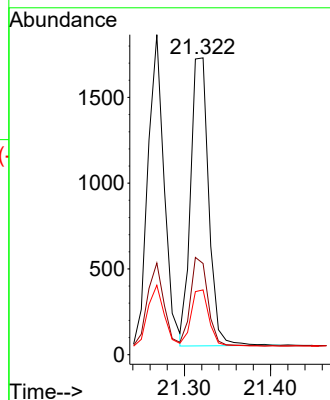
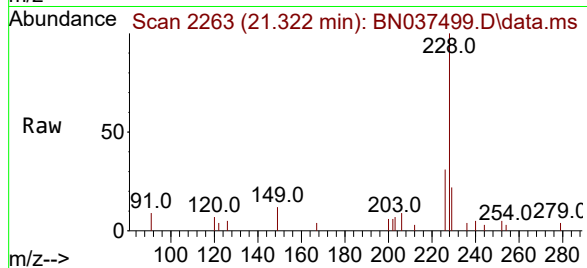
Tgt Ion:228 Resp: 2451

Ion Ratio Lower Upper

228 100

226 30.7 24.2 36.4

229 21.8 16.1 24.1



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.522 min Scan# 2766

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

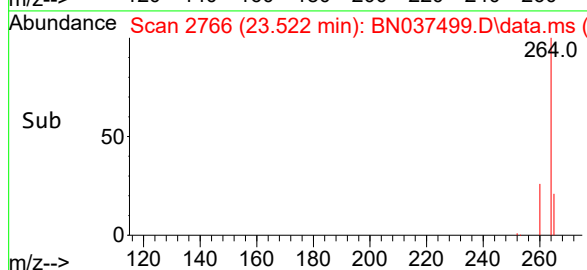
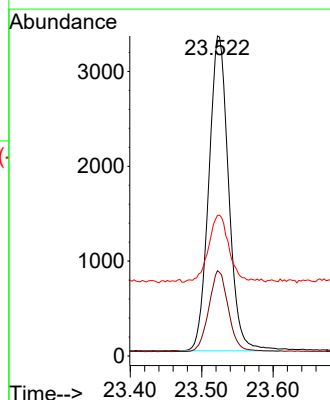
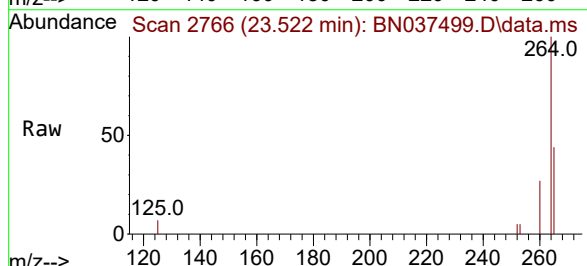
Tgt Ion:264 Resp: 6399

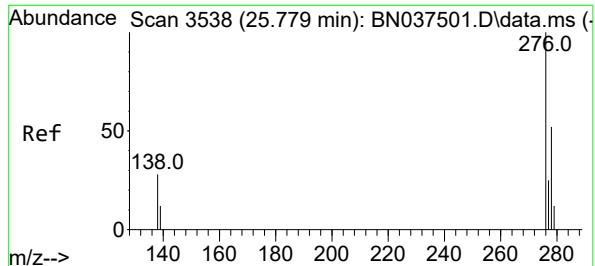
Ion Ratio Lower Upper

264 100

260 26.6 21.2 31.8

265 43.9 40.4 60.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.090 ng

RT: 25.791 min Scan# 3

Delta R.T. 0.012 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

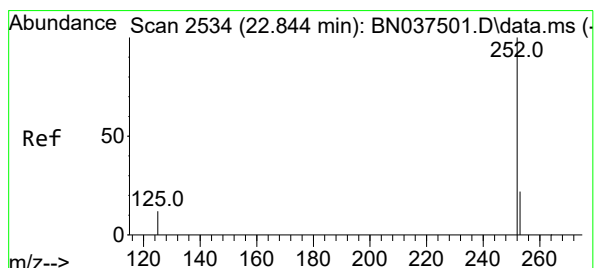
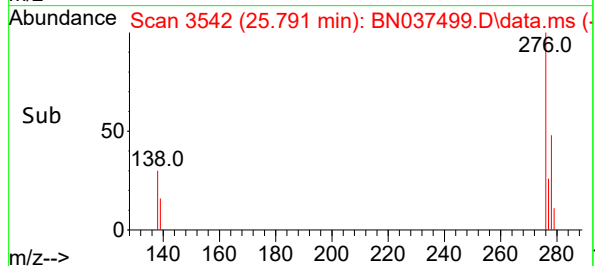
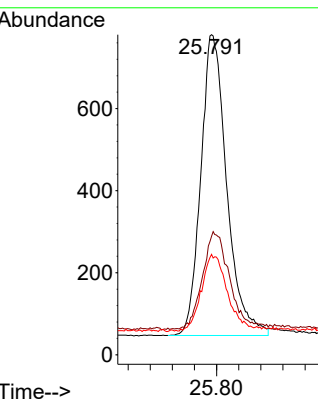
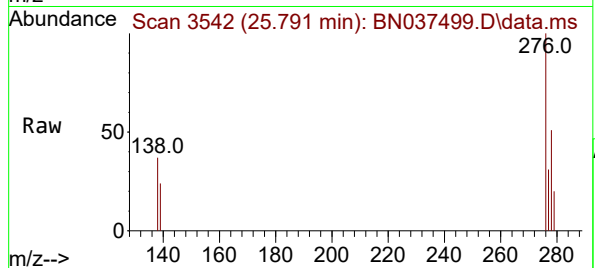
Tgt Ion:276 Resp: 2389

Ion Ratio Lower Upper

276 100

138 33.7 24.0 36.0

277 25.3 20.5 30.7



#37

Benzo(b)fluoranthene

Concen: 0.096 ng

RT: 22.850 min Scan# 2536

Delta R.T. 0.006 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

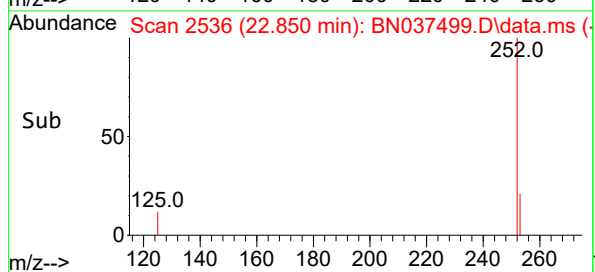
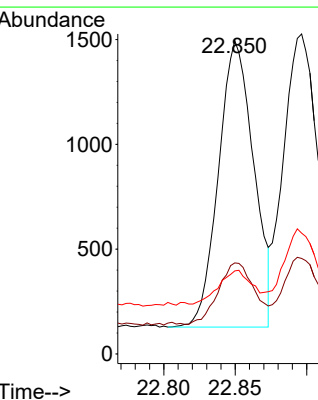
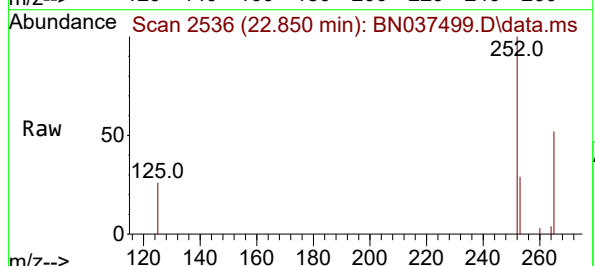
Tgt Ion:252 Resp: 2342

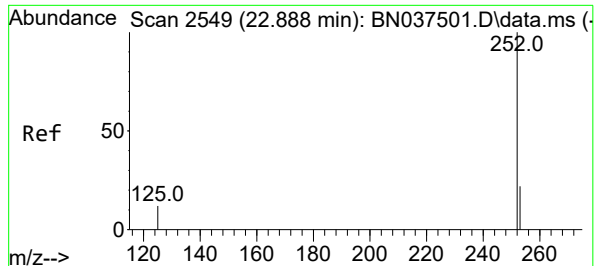
Ion Ratio Lower Upper

252 100

253 29.0 19.5 29.3

125 26.5 13.0 19.6#





#38

Benzo(k)fluoranthene

Concen: 0.097 ng

RT: 22.896 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

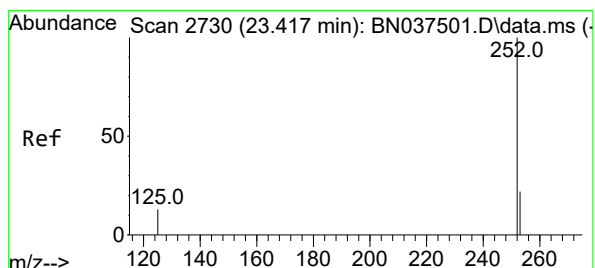
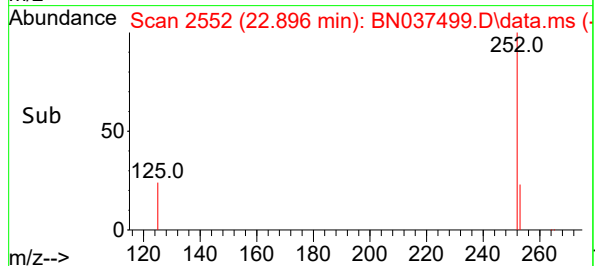
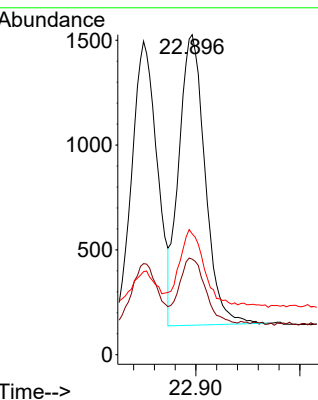
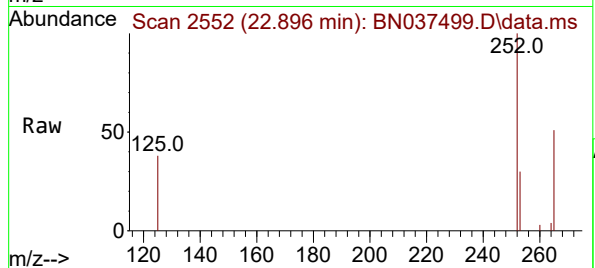
Tgt Ion:252 Resp: 2426

Ion Ratio Lower Upper

252 100

253 29.9 19.5 29.3#

125 37.7 13.1 19.7#



#39

Benzo(a)pyrene

Concen: 0.094 ng

RT: 23.426 min Scan# 2733

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

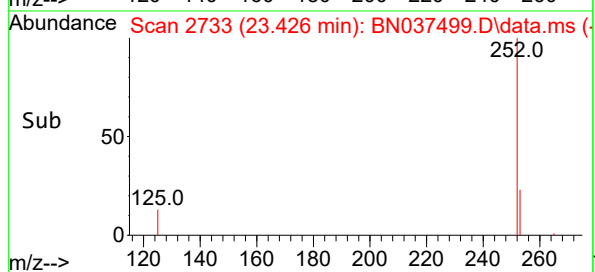
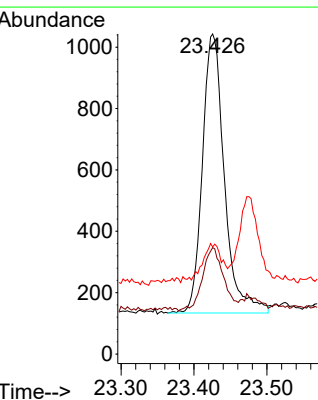
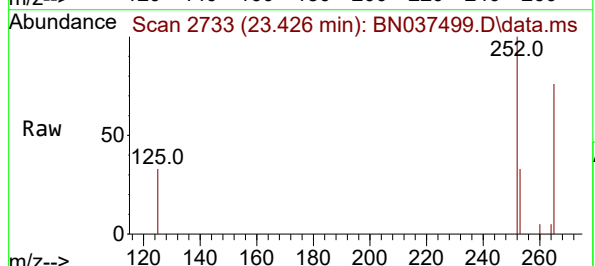
Tgt Ion:252 Resp: 1902

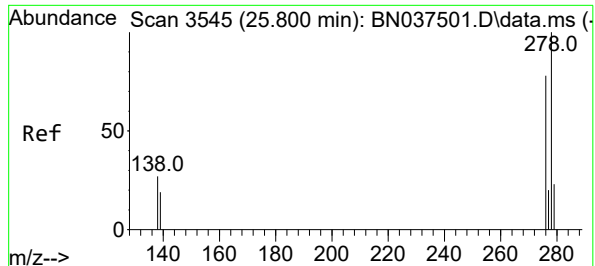
Ion Ratio Lower Upper

252 100

253 33.3 19.9 29.9#

125 33.5 15.2 22.8#





#40

Dibenzo(a,h)anthracene

Concen: 0.089 ng

RT: 25.811 min Scan# 3

Delta R.T. 0.012 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

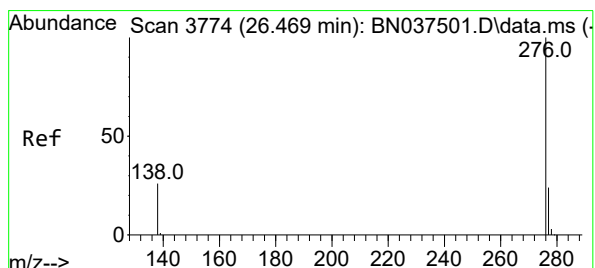
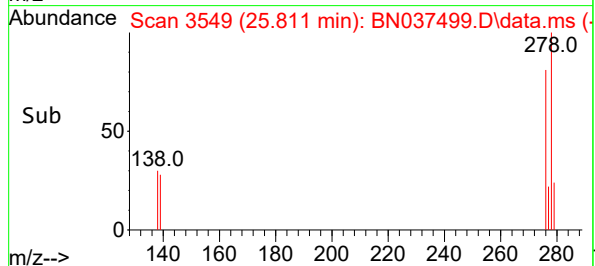
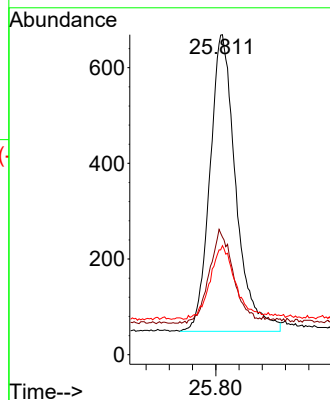
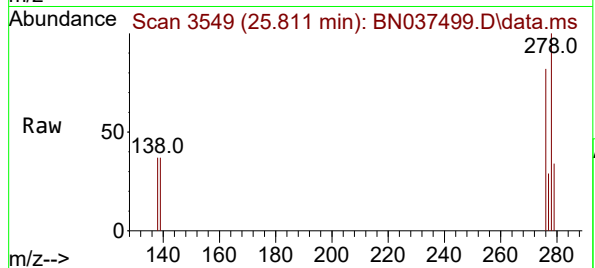
Tgt Ion:278 Resp: 1921

Ion Ratio Lower Upper

278 100

139 36.8 17.5 26.3#

279 34.1 21.3 31.9#



#41

Benzo(g,h,i)perylene

Concen: 0.089 ng

RT: 26.478 min Scan# 3777

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

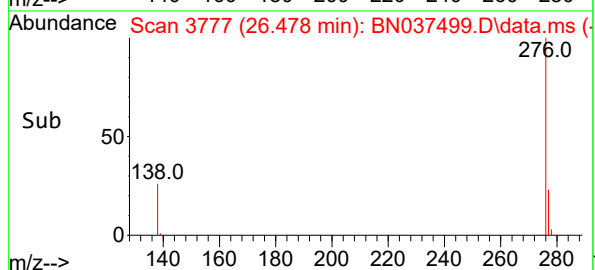
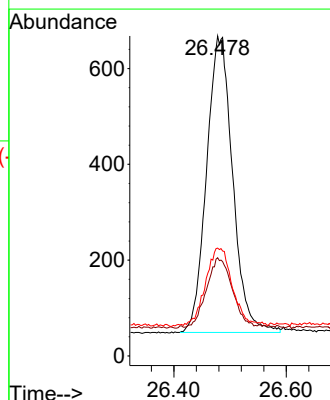
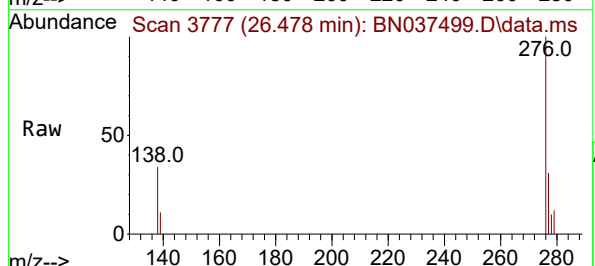
Tgt Ion:276 Resp: 1995

Ion Ratio Lower Upper

276 100

277 30.7 20.9 31.3

138 33.7 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037500.D
 Acq On : 15 Jul 2025 13:12
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jul 15 17:26:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 16:45:15 2025
 Response via : Initial Calibration

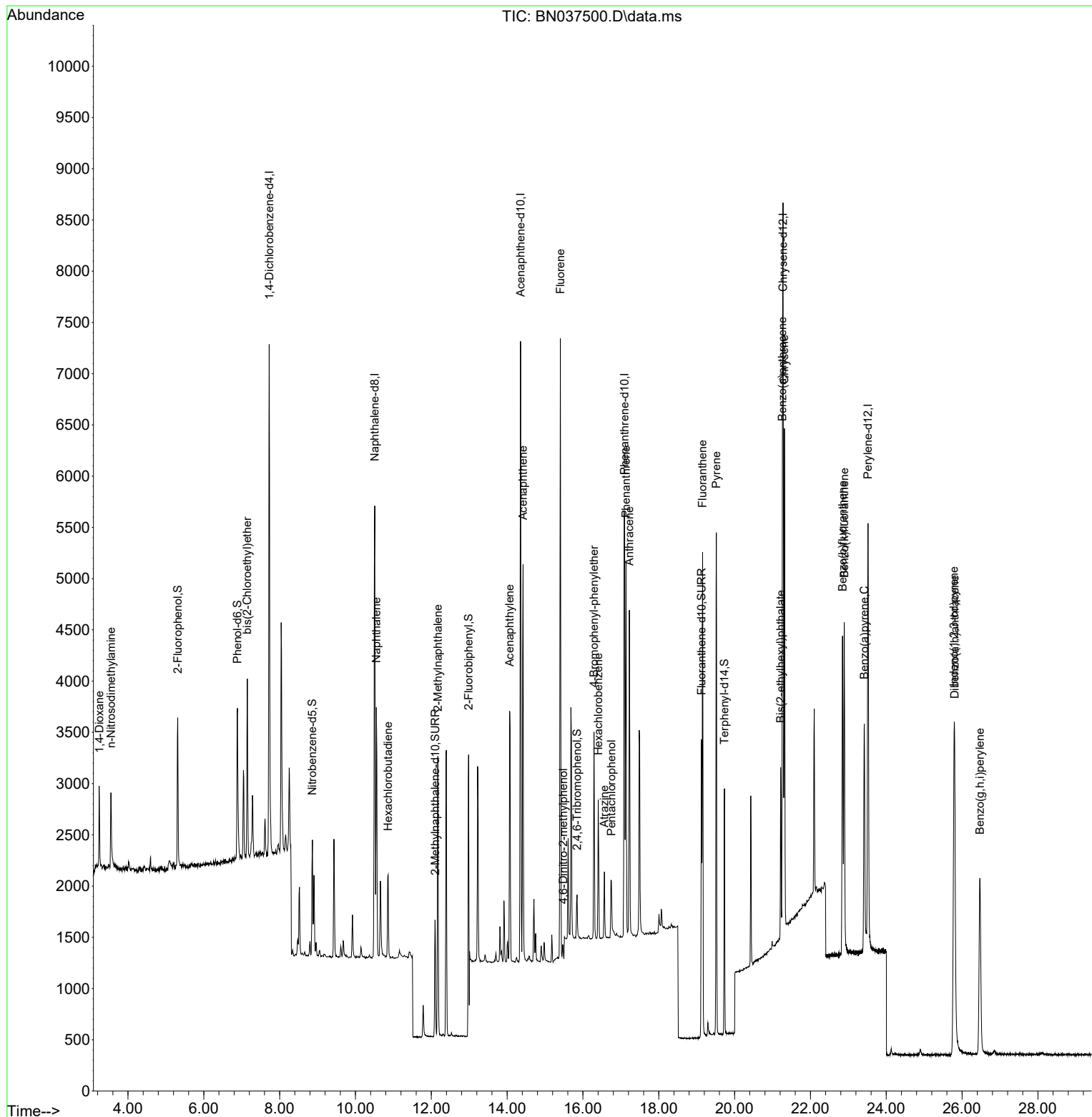
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2351	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6017	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3325	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6414	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5490	0.400	ng	# 0.00
35) Perylene-d12	23.519	264	5600	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1188	0.204	ng	0.00
5) Phenol-d6	6.887	99	1455	0.200	ng	0.00
8) Nitrobenzene-d5	8.864	82	867	0.193	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	1606	0.186	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	288	0.176	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	2983	0.173	ng	0.00
27) Fluoranthene-d10	19.127	212	3202	0.188	ng	0.00
31) Terphenyl-d14	19.731	244	2238	0.190	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	481	0.213	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.550	42	548	0.193	ng	# 94
6) bis(2-Chloroethyl)ether	7.147	93	1237	0.204	ng	99
9) Naphthalene	10.551	128	3170	0.198	ng	97
10) Hexachlorobutadiene	10.861	225	712	0.201	ng	# 99
12) 2-Methylnaphthalene	12.172	142	1971	0.187	ng	99
16) Acenaphthylene	14.067	152	2840	0.191	ng	98
17) Acenaphthene	14.420	154	1928	0.190	ng	99
18) Fluorene	15.403	166	2474	0.190	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	140	0.255	ng	# 78
21) 4-Bromophenyl-phenylether	16.292	248	793	0.193	ng	97
22) Hexachlorobenzene	16.404	284	1057	0.199	ng	100
23) Atrazine	16.565	200	515	0.180	ng	# 94
24) Pentachlorophenol	16.751	266	419	0.176	ng	99
25) Phenanthrene	17.136	178	3730	0.194	ng	99
26) Anthracene	17.223	178	3288	0.188	ng	100
28) Fluoranthene	19.155	202	4200	0.190	ng	100
30) Pyrene	19.517	202	4280	0.194	ng	100
32) Benzo(a)anthracene	21.259	228	3724	0.194	ng	98
33) Chrysene	21.313	228	4010	0.200	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	1656	0.191	ng	97
36) Indeno(1,2,3-cd)pyrene	25.788	276	4278	0.183	ng	98
37) Benzo(b)fluoranthene	22.847	252	3857	0.181	ng	# 93
38) Benzo(k)fluoranthene	22.891	252	3977	0.181	ng	# 93
39) Benzo(a)pyrene	23.420	252	3225	0.182	ng	# 91
40) Dibenzo(a,h)anthracene	25.803	278	3411	0.181	ng	# 94
41) Benzo(g,h,i)perylene	26.472	276	3591	0.184	ng	96

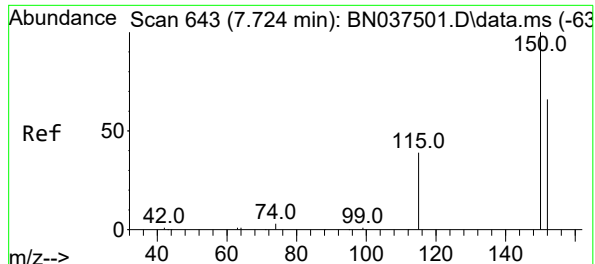
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037500.D
Acq On : 15 Jul 2025 13:12
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jul 15 17:26:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration

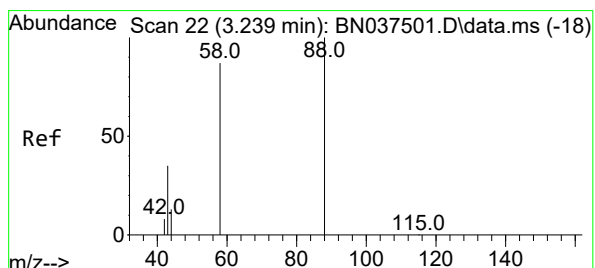
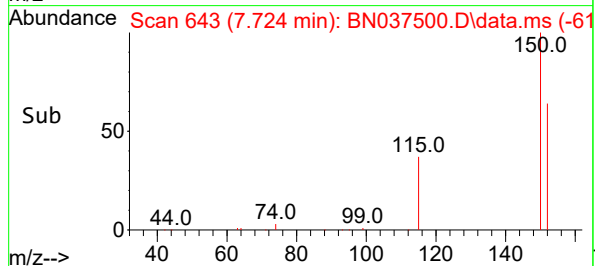
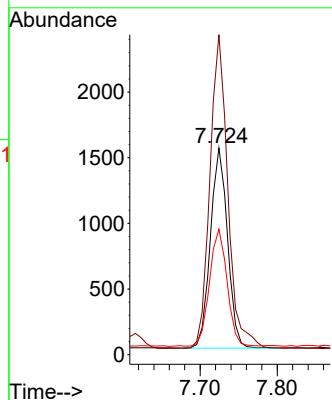
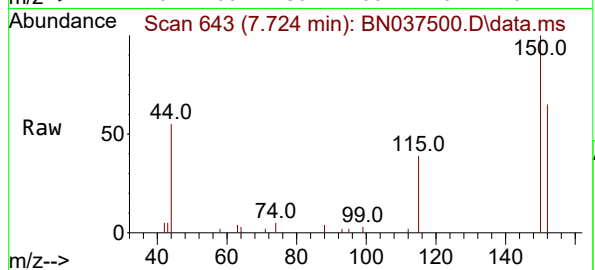




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

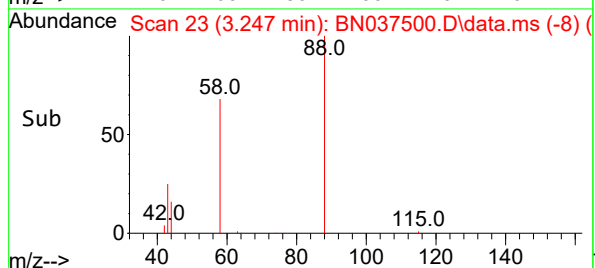
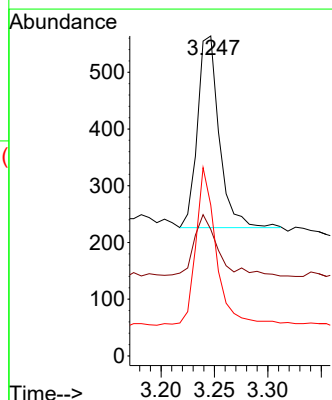
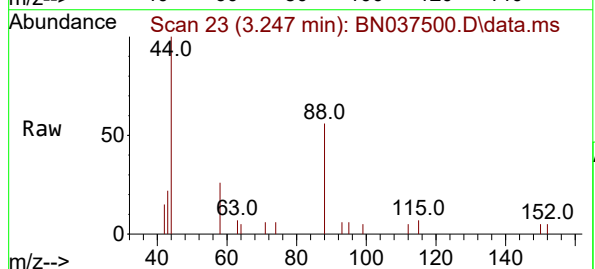
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

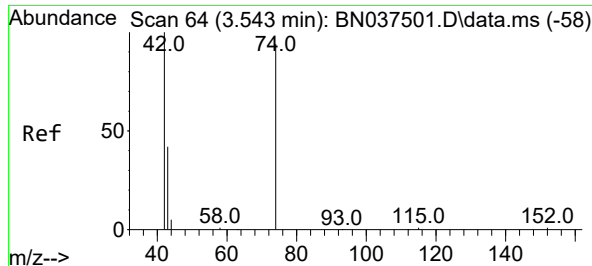
Tgt Ion:152 Resp: 2351
Ion Ratio Lower Upper
152 100
150 154.9 119.8 179.8
115 60.8 49.1 73.7



#2
1,4-Dioxane
Concen: 0.213 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

Tgt Ion: 88 Resp: 481
Ion Ratio Lower Upper
88 100
43 34.9 27.5 41.3
58 77.8 62.7 94.1

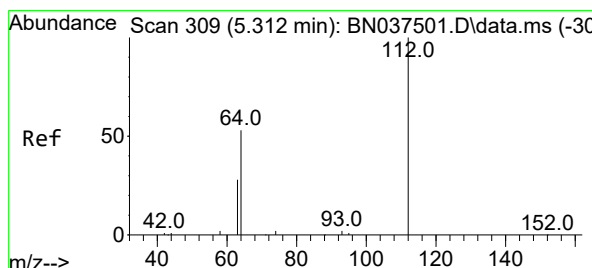
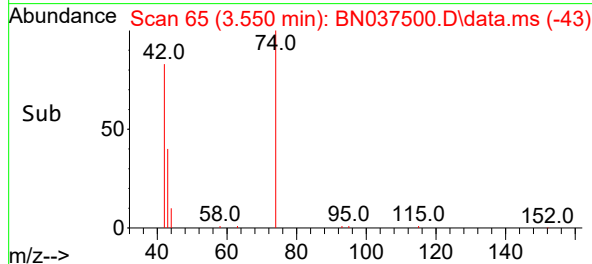
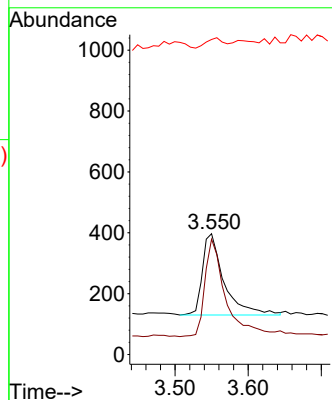
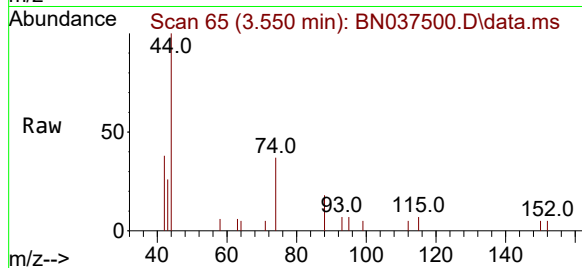




#3
n-Nitrosodimethylamine
Concen: 0.193 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

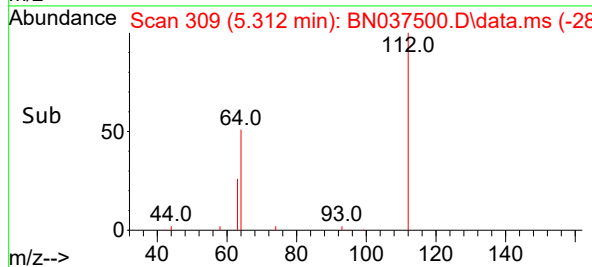
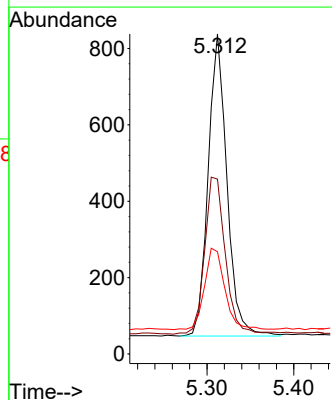
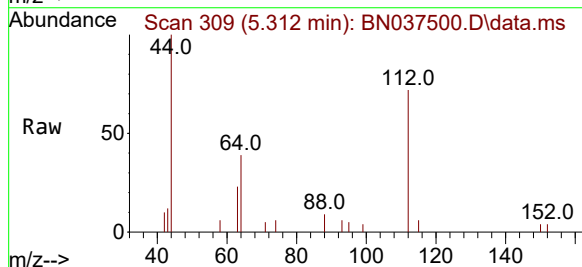
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

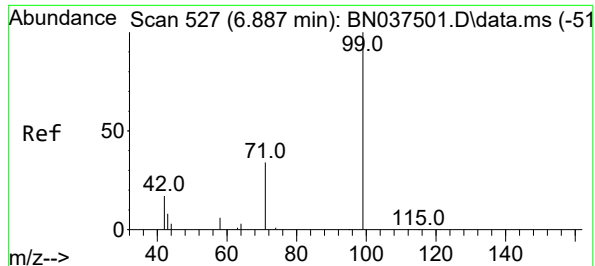
Tgt Ion: 42 Resp: 548
Ion Ratio Lower Upper
42 100
74 119.2 91.8 137.6
44 9.9 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.204 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

Tgt Ion: 112 Resp: 1188
Ion Ratio Lower Upper
112 100
64 57.9 45.1 67.7
63 29.0 23.8 35.8

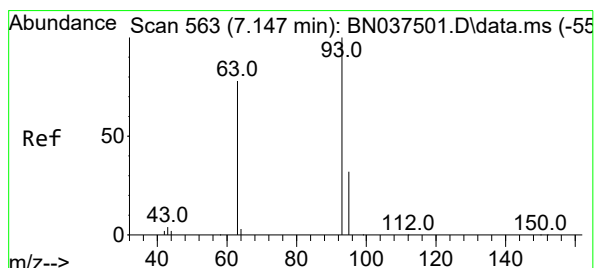
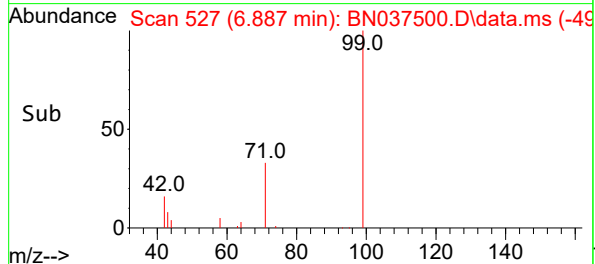
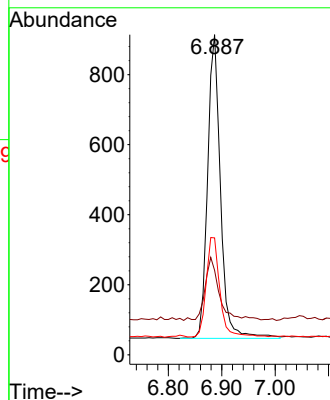
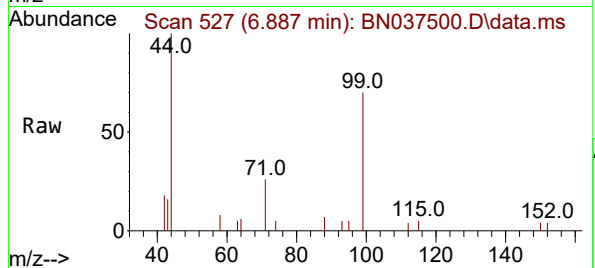




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

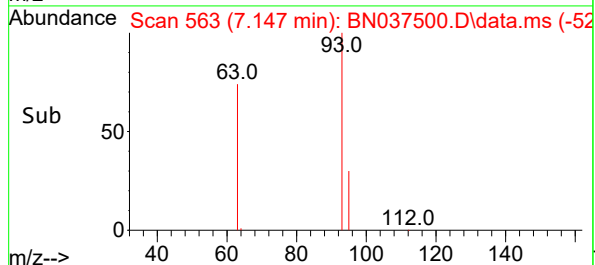
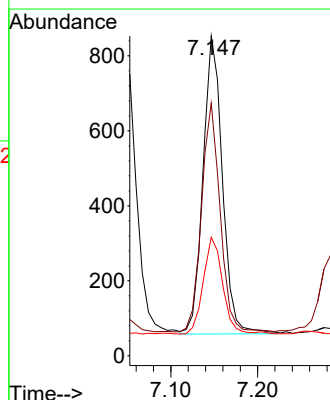
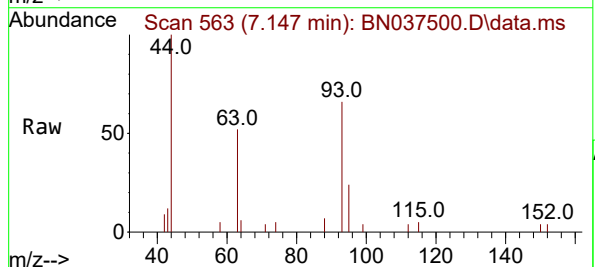
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

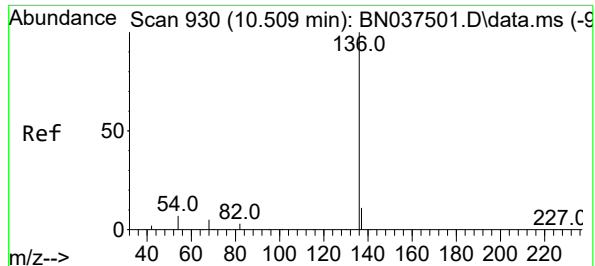
Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.1	17.1	25.7
71	34.8	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.204 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

Tgt Ion	Ratio	Lower	Upper
93	100		
63	73.6	58.2	87.4
95	32.7	25.3	37.9

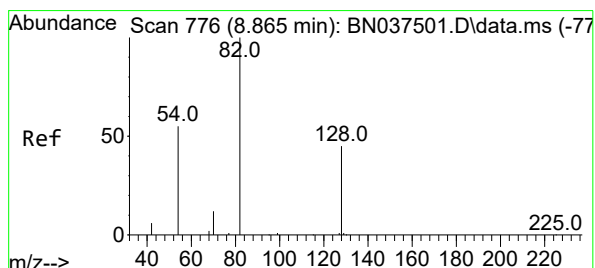
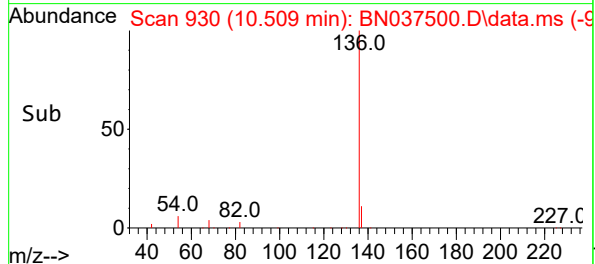
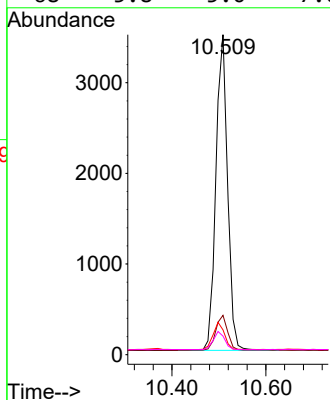
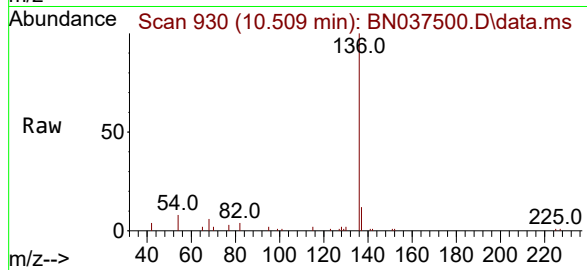




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

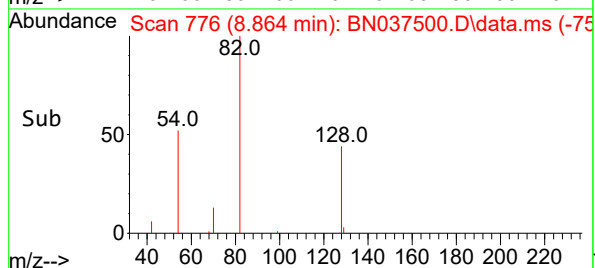
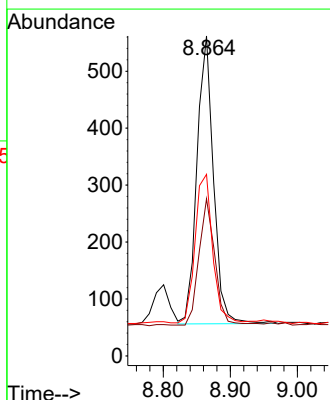
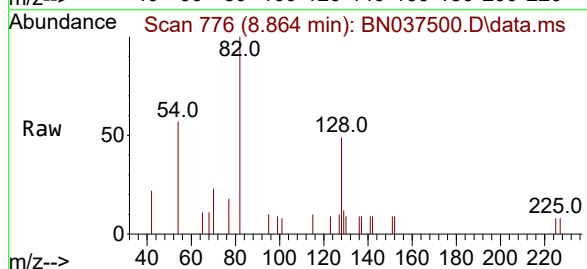
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

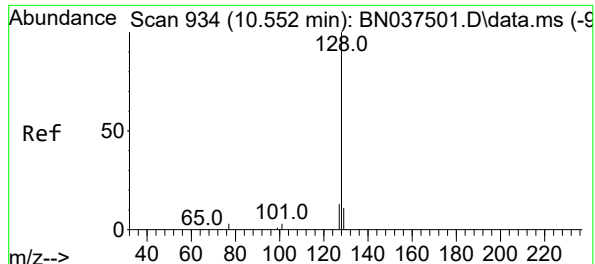
Tgt Ion:136	Resp:	6017
Ion	Ratio	Lower Upper
136	100	
137	12.3	9.8 14.8
54	7.7	6.6 9.8
68	5.8	5.0 7.6



#8
Nitrobenzene-d5
Concen: 0.193 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

Tgt Ion: 82	Resp:	867
Ion	Ratio	Lower Upper
82	100	
128	49.1	37.5 56.3
54	56.8	45.3 67.9





#9

Naphthalene

Concen: 0.198 ng

RT: 10.551 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

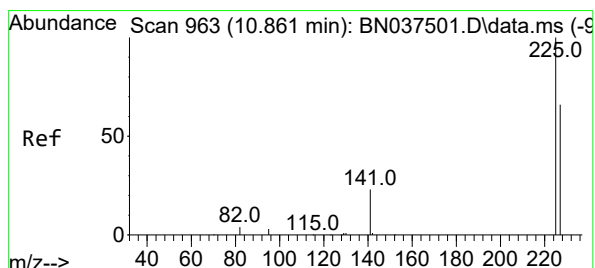
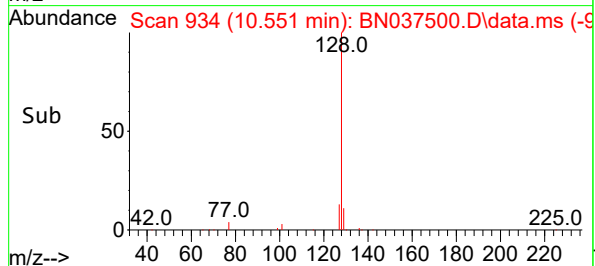
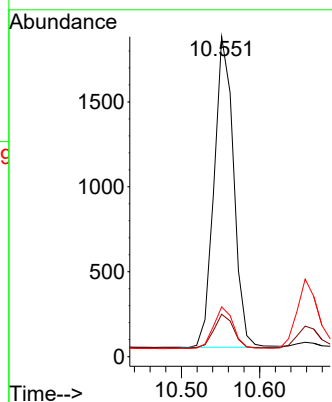
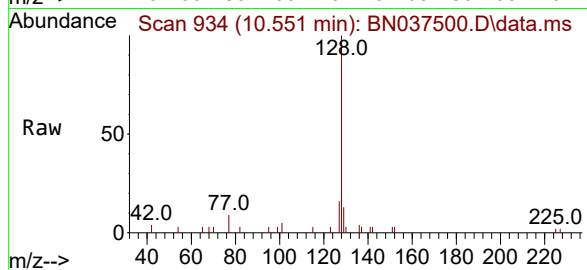
Tgt Ion:128 Resp: 3170

Ion Ratio Lower Upper

128 100

129 13.2 9.7 14.5

127 15.6 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.201 ng

RT: 10.861 min Scan# 963

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

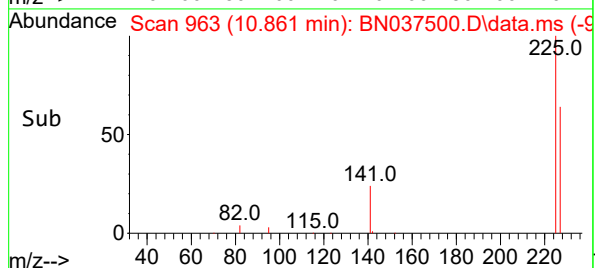
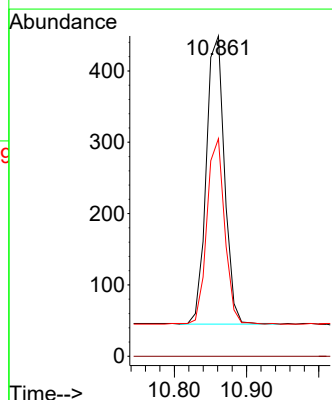
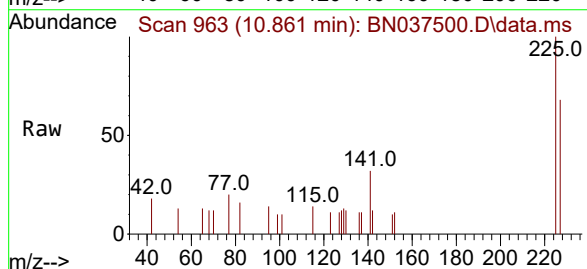
Tgt Ion:225 Resp: 712

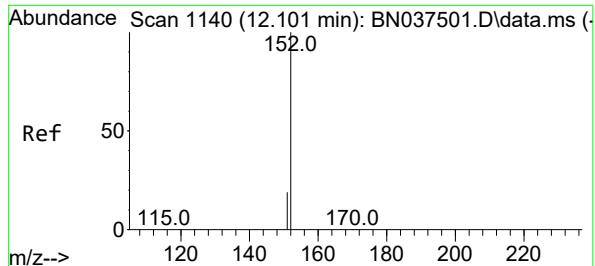
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.9 51.0 76.4

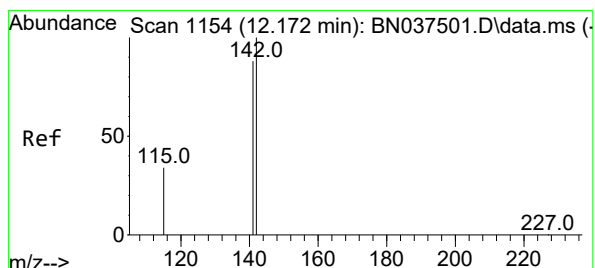
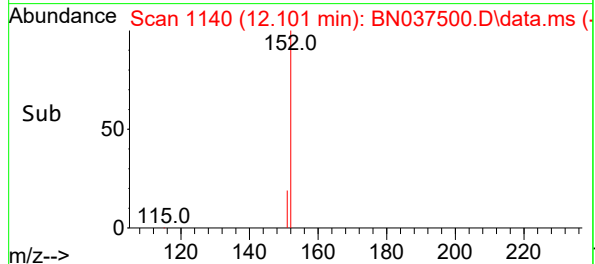
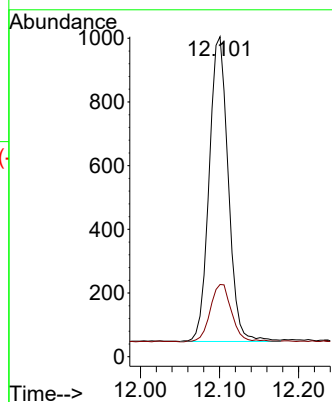
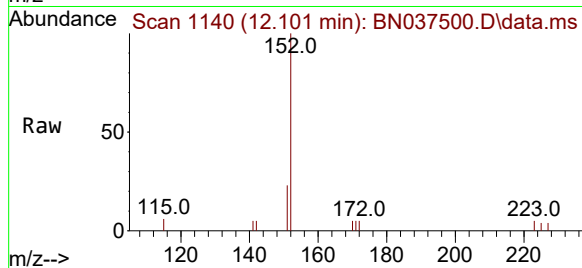




#11
2-Methylnaphthalene-d10
Concen: 0.186 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

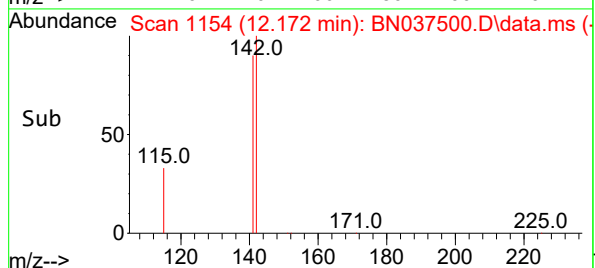
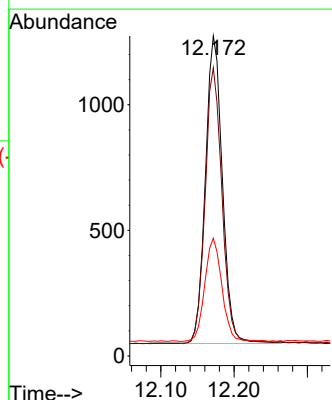
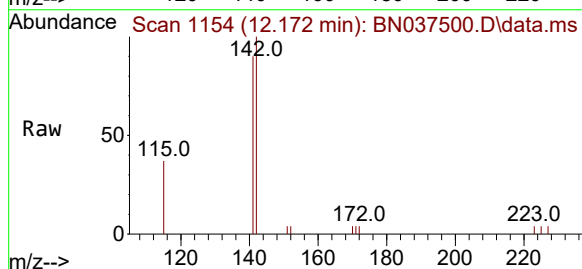
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

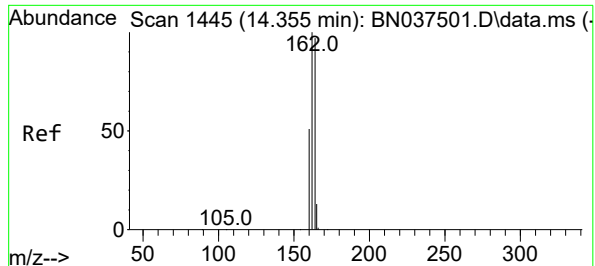
Tgt Ion:152 Resp: 1606
Ion Ratio Lower Upper
152 100
151 21.2 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.187 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

Tgt Ion:142 Resp: 1971
Ion Ratio Lower Upper
142 100
141 90.0 71.0 106.4
115 36.8 29.0 43.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.355 min Scan# 1445

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

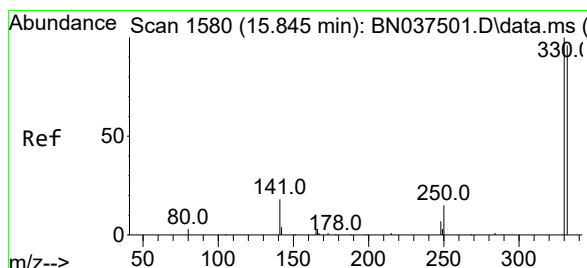
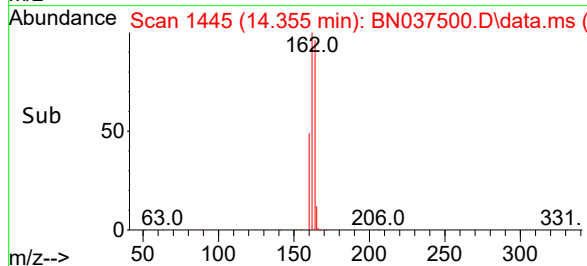
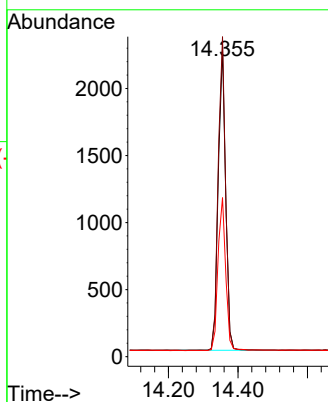
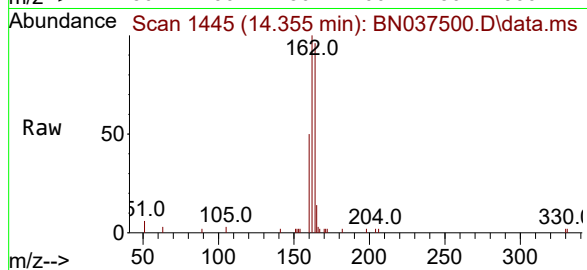
Tgt Ion:164 Resp: 3325

Ion Ratio Lower Upper

164 100

162 103.8 82.0 123.0

160 51.6 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 0.176 ng

RT: 15.845 min Scan# 1580

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

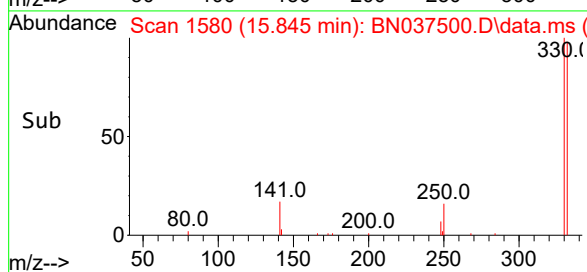
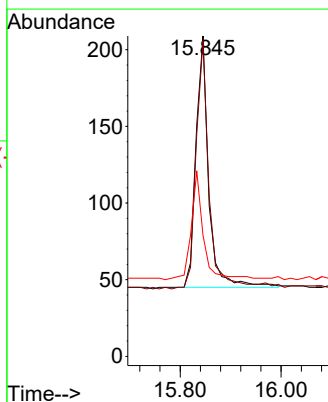
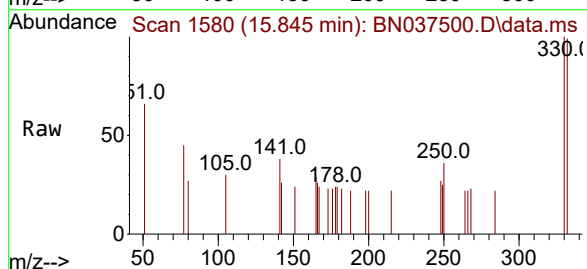
Tgt Ion:330 Resp: 288

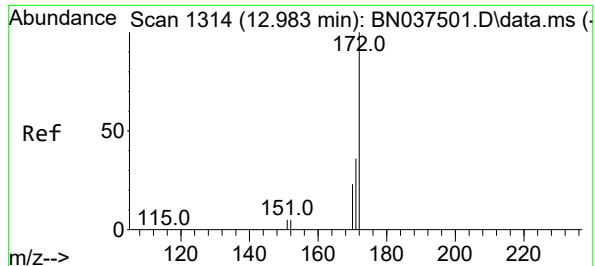
Ion Ratio Lower Upper

330 100

332 99.7 76.1 114.1

141 41.3 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.173 ng

RT: 12.983 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

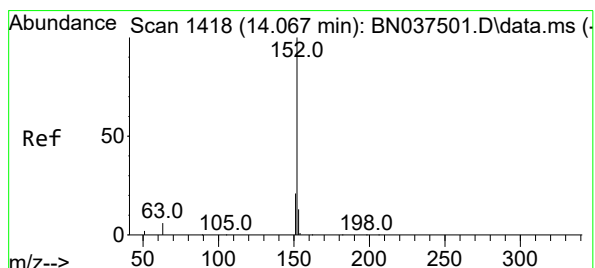
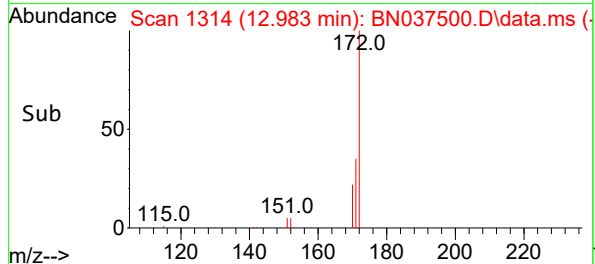
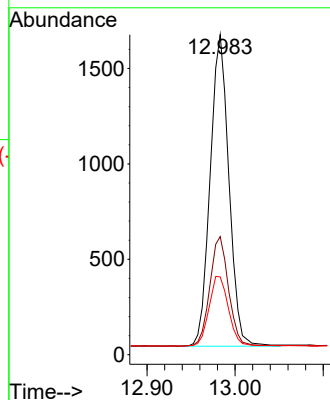
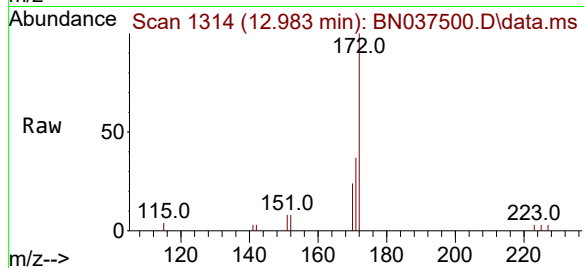
Tgt Ion:172 Resp: 2983

Ion Ratio Lower Upper

172 100

171 36.9 29.4 44.2

170 24.3 19.4 29.0



#16

Acenaphthylene

Concen: 0.191 ng

RT: 14.067 min Scan# 1418

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

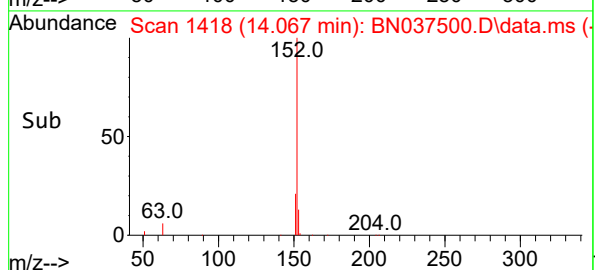
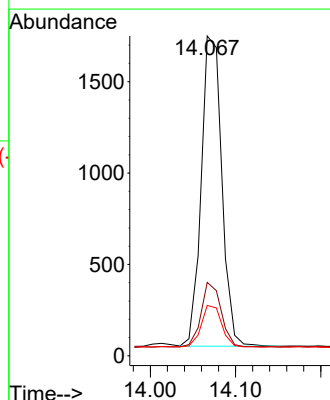
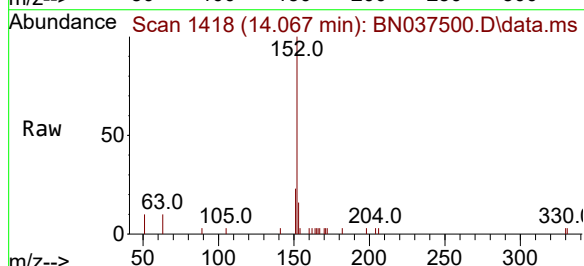
Tgt Ion:152 Resp: 2840

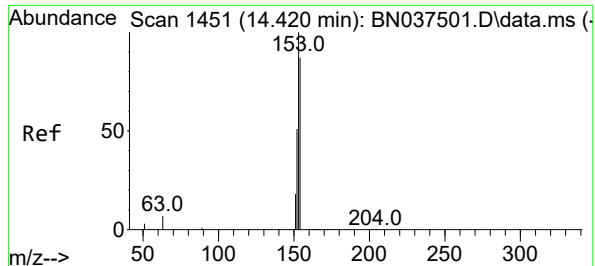
Ion Ratio Lower Upper

152 100

151 21.3 15.9 23.9

153 13.2 10.7 16.1





#17

Acenaphthene

Concen: 0.190 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

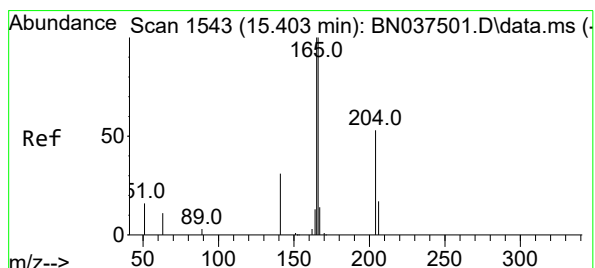
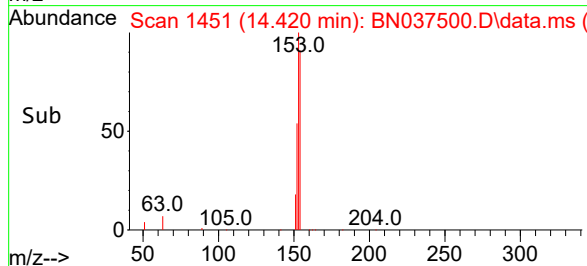
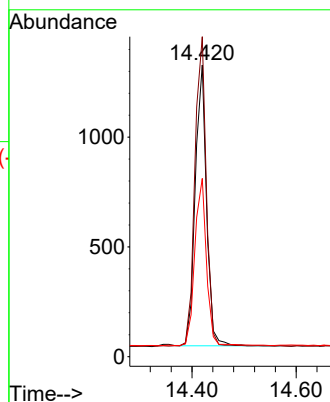
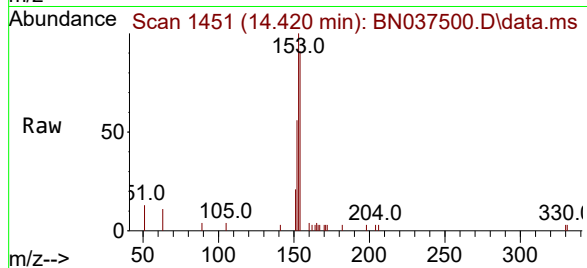
Tgt Ion:154 Resp: 1928

Ion Ratio Lower Upper

154 100

153 111.4 89.2 133.8

152 61.5 48.0 72.0



#18

Fluorene

Concen: 0.190 ng

RT: 15.403 min Scan# 1543

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

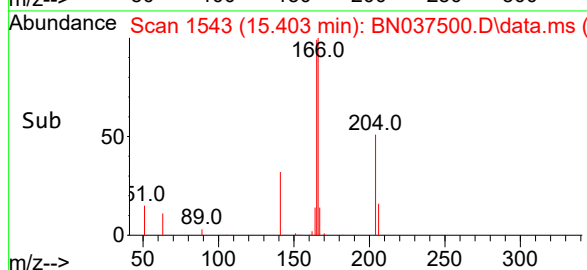
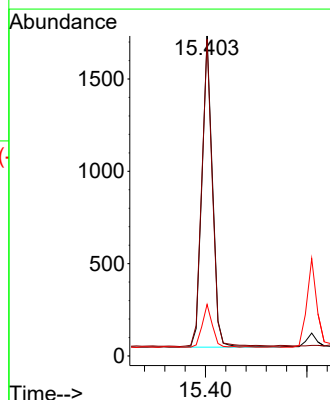
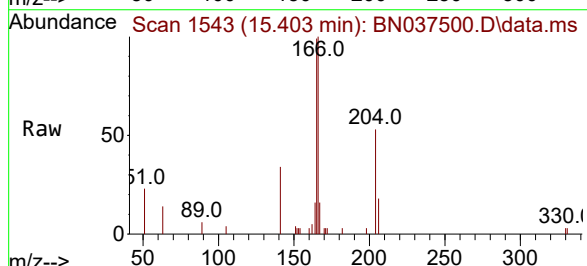
Tgt Ion:166 Resp: 2474

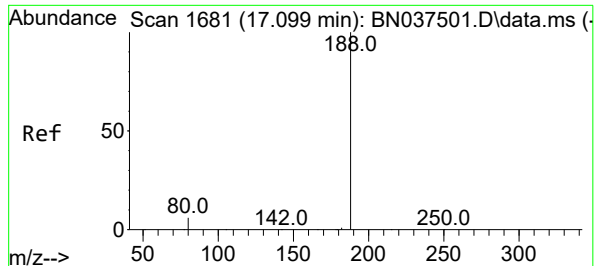
Ion Ratio Lower Upper

166 100

165 97.8 78.1 117.1

167 13.0 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

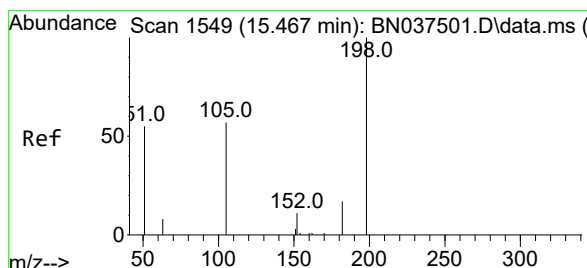
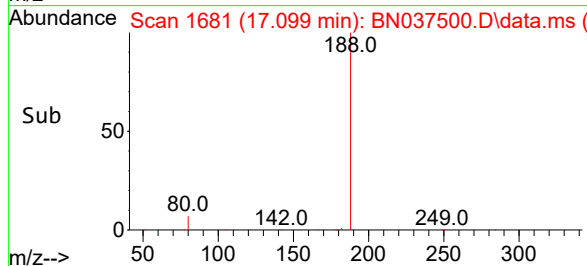
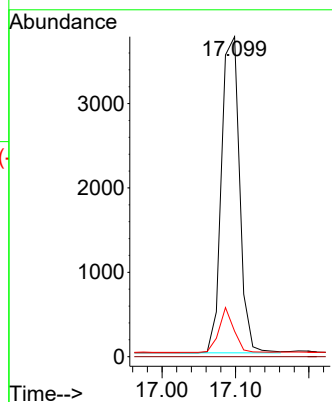
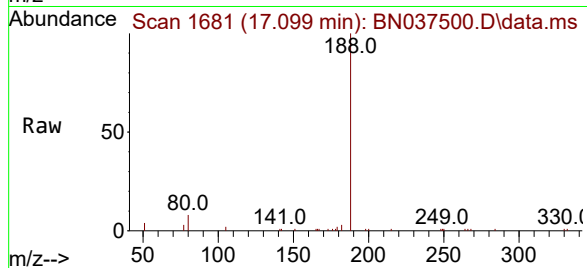
Tgt Ion:188 Resp: 6414

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.255 ng

RT: 15.478 min Scan# 1550

Delta R.T. 0.011 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

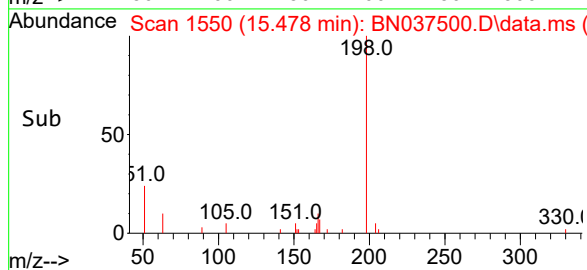
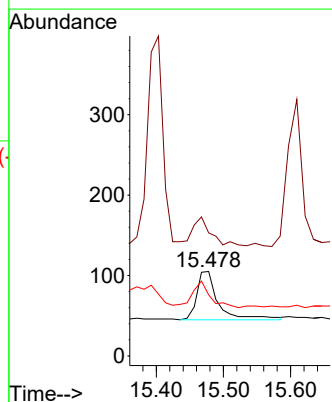
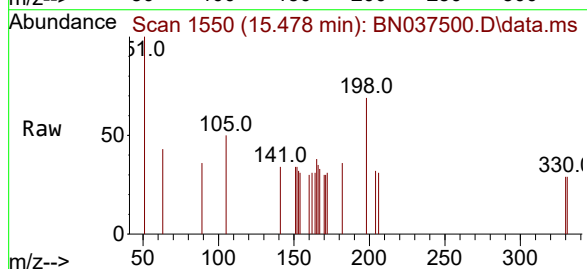
Tgt Ion:198 Resp: 140

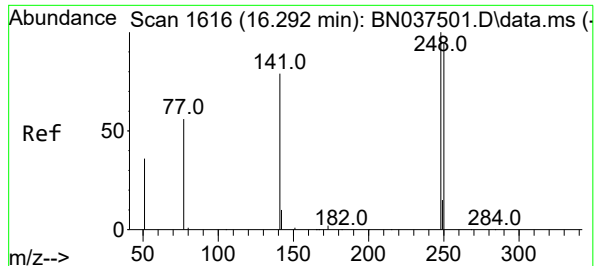
Ion Ratio Lower Upper

198 100

51 145.7 88.5 132.7#

105 72.4 61.2 91.8

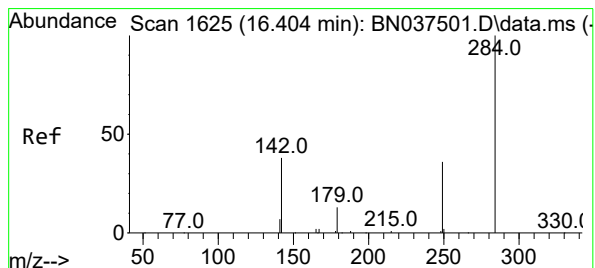
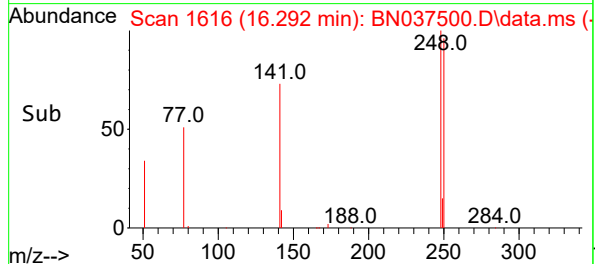
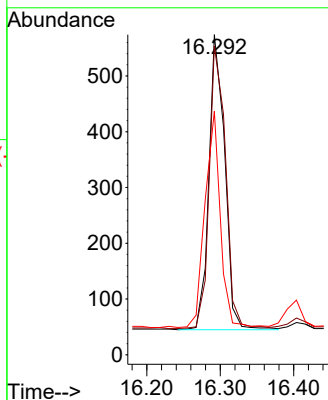
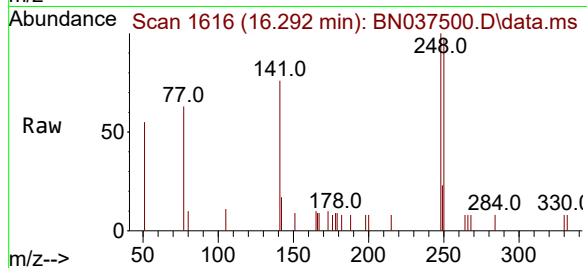




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

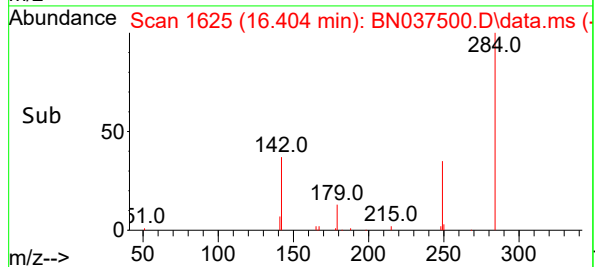
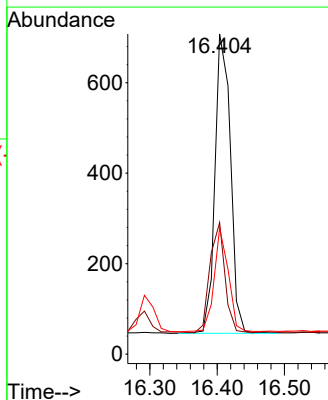
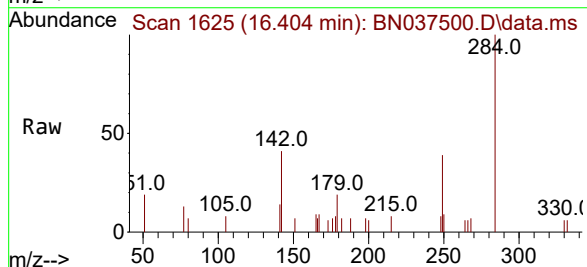
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

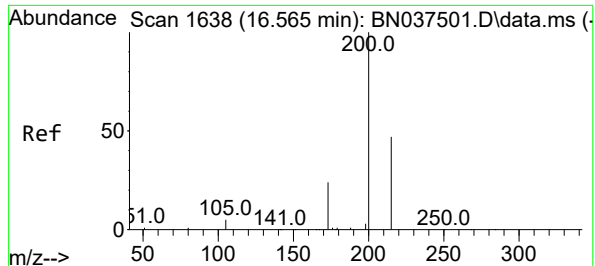
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.5	76.2	114.2
141	76.1	63.9	95.9



#22
Hexachlorobenzene
Concen: 0.199 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.8	28.9	43.3
249	32.2	25.8	38.6





#23

Atrazine

Concen: 0.180 ng

RT: 16.565 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

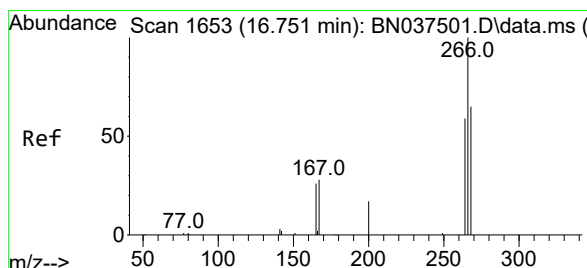
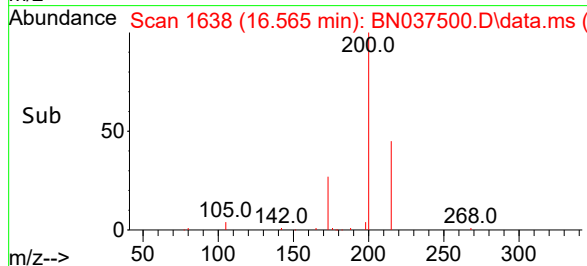
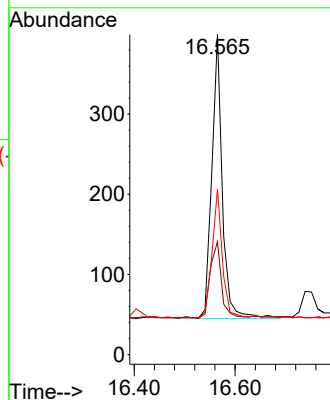
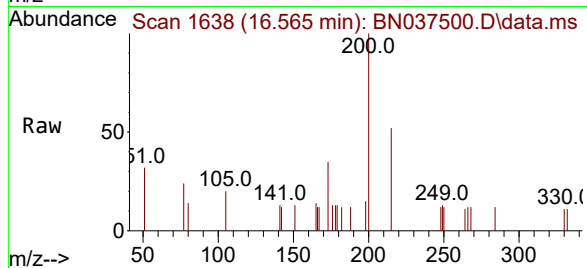
Tgt Ion:200 Resp: 515

Ion Ratio Lower Upper

200 100

173 35.3 23.2 34.8#

215 51.6 40.2 60.4



#24

Pentachlorophenol

Concen: 0.176 ng

RT: 16.751 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

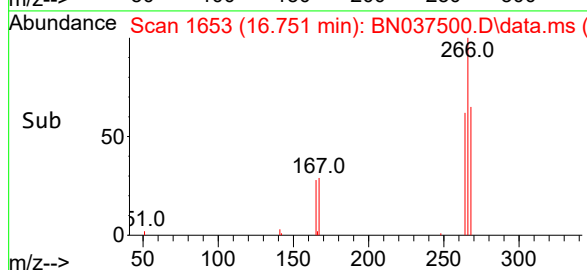
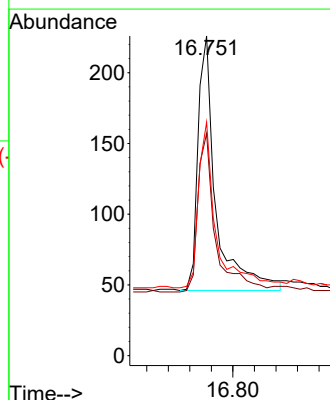
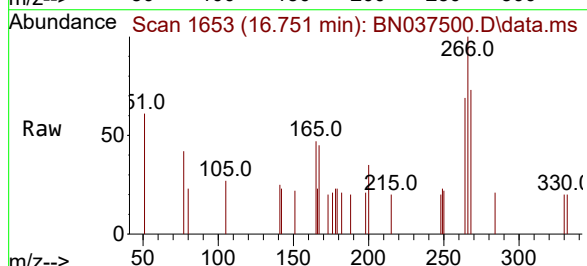
Tgt Ion:266 Resp: 419

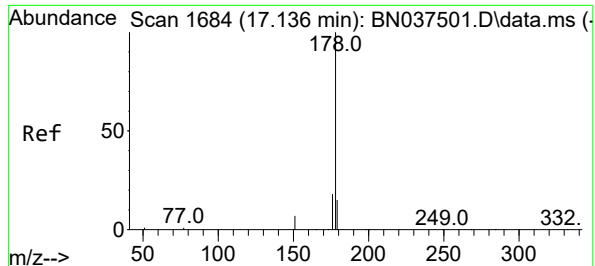
Ion Ratio Lower Upper

266 100

264 60.9 49.3 73.9

268 64.9 51.6 77.4

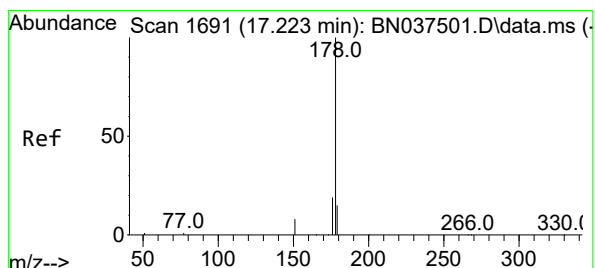
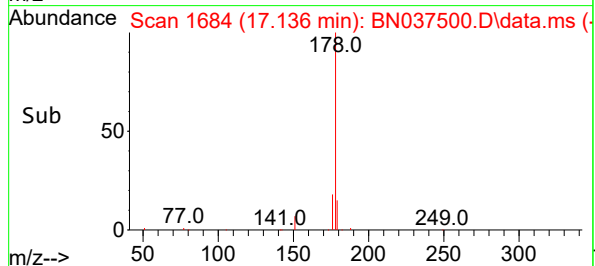
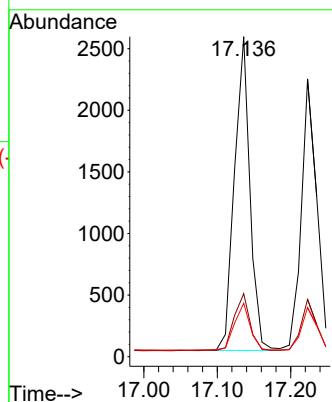
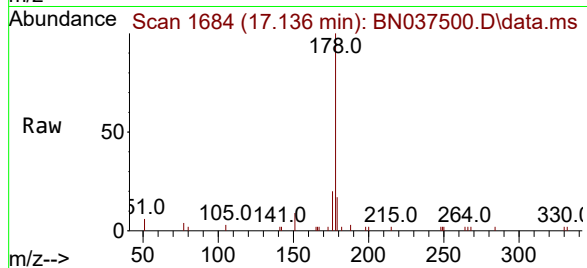




#25
Phenanthrene
Concen: 0.194 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

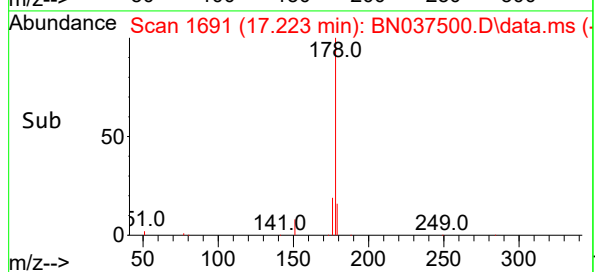
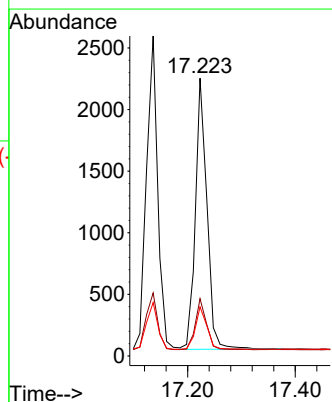
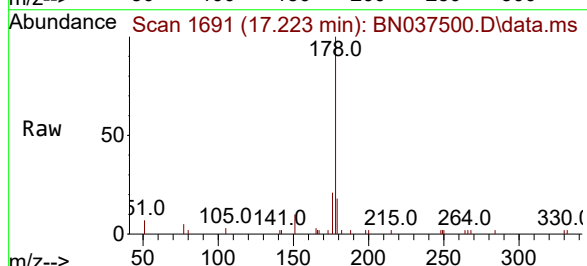
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

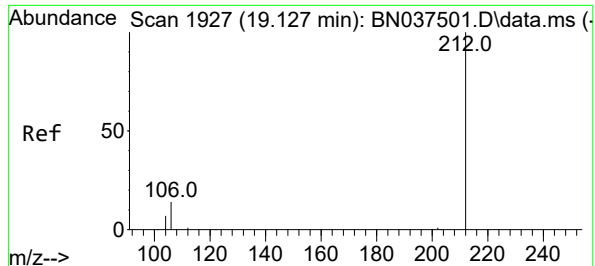
Tgt Ion:178 Resp: 3730
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 15.4 12.2 18.2



#26
Anthracene
Concen: 0.188 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

Tgt Ion:178 Resp: 3288
Ion Ratio Lower Upper
178 100
176 18.3 14.7 22.1
179 15.7 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

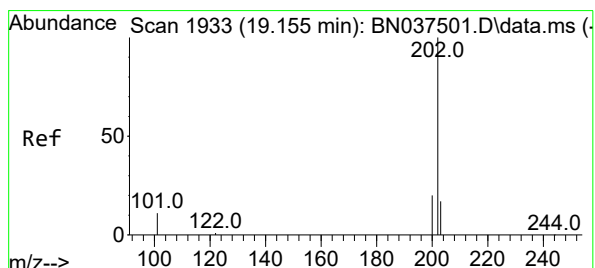
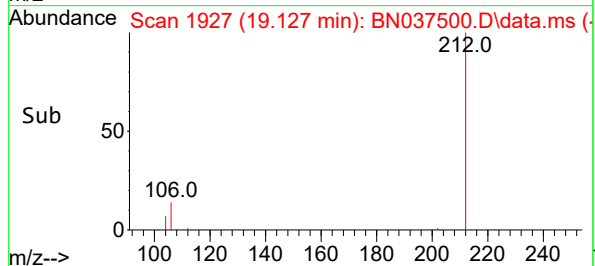
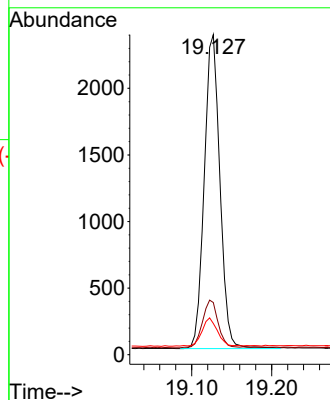
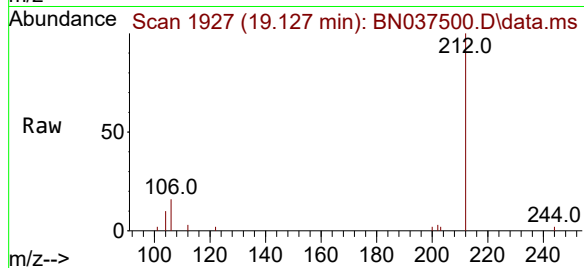
Tgt Ion:212 Resp: 3202

Ion Ratio Lower Upper

212 100

106 15.3 12.2 18.4

104 8.8 6.7 10.1



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

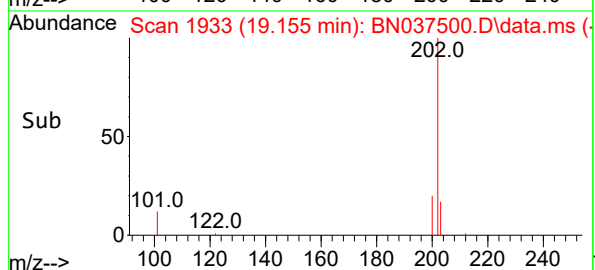
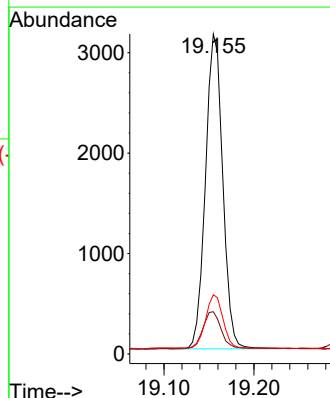
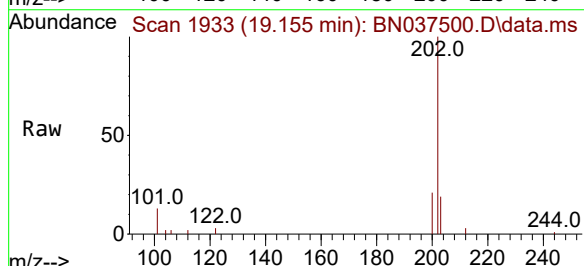
Tgt Ion:202 Resp: 4200

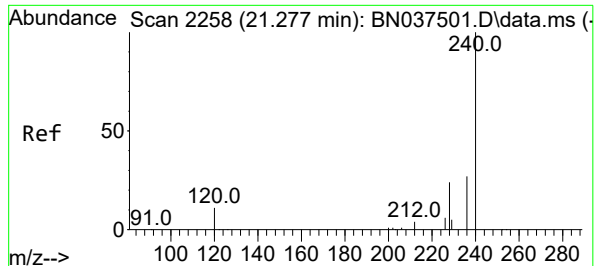
Ion Ratio Lower Upper

202 100

101 12.1 9.8 14.6

203 16.9 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

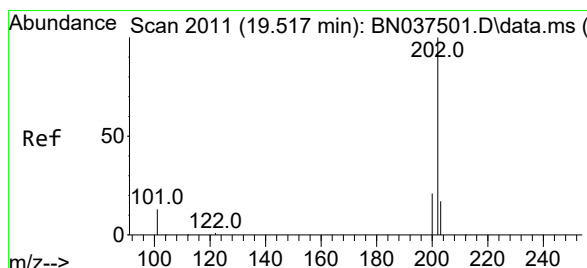
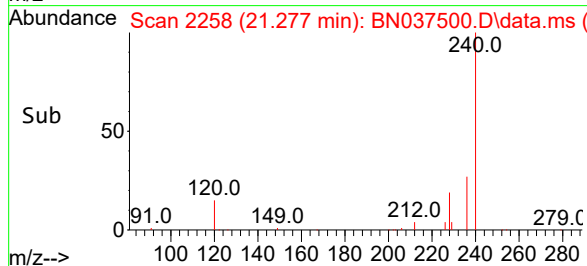
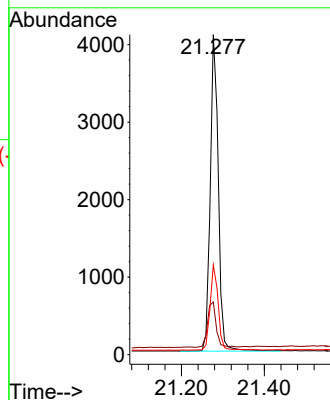
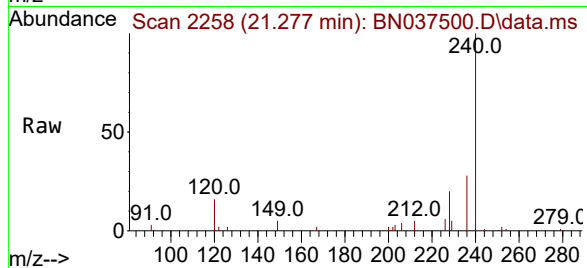
Tgt Ion:240 Resp: 5490

Ion Ratio Lower Upper

240 100

120 16.5 10.7 16.1#

236 28.0 22.6 33.8



#30

Pyrene

Concen: 0.194 ng

RT: 19.517 min Scan# 2011

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

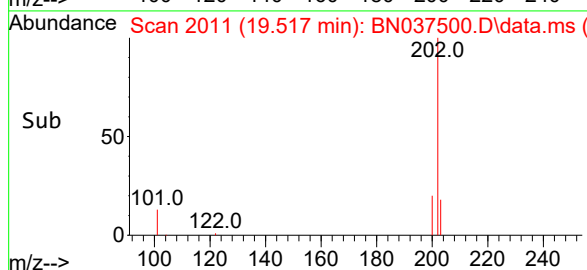
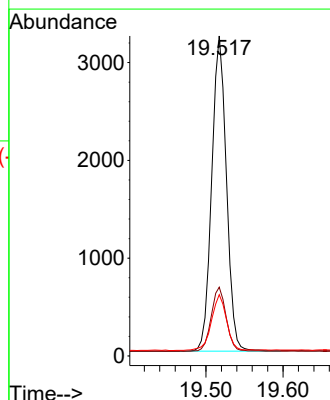
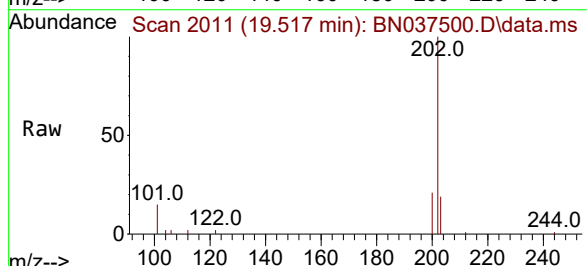
Tgt Ion:202 Resp: 4280

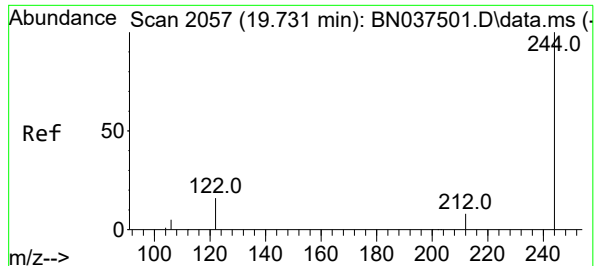
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 18.3 14.3 21.5

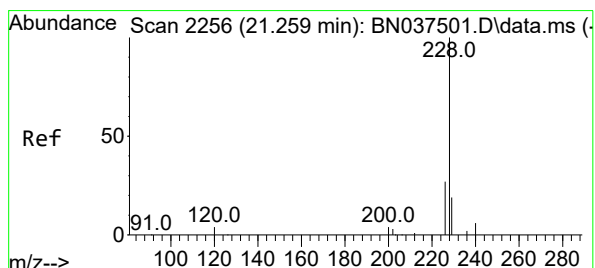
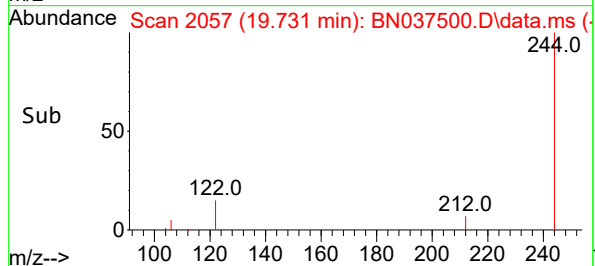
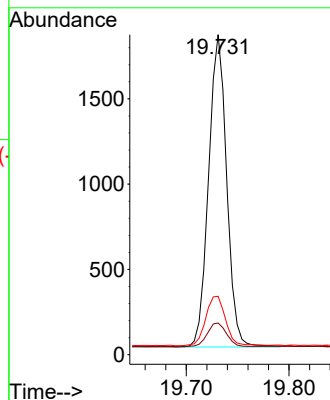
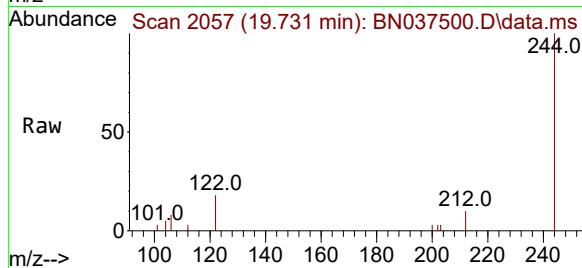




#31
Terphenyl-d14
Concen: 0.190 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

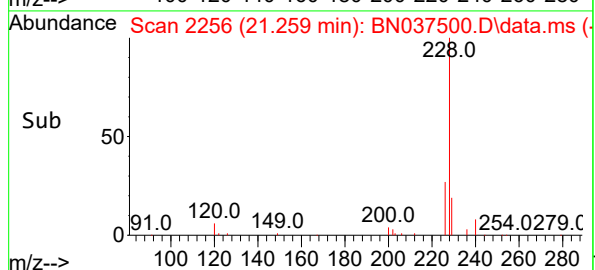
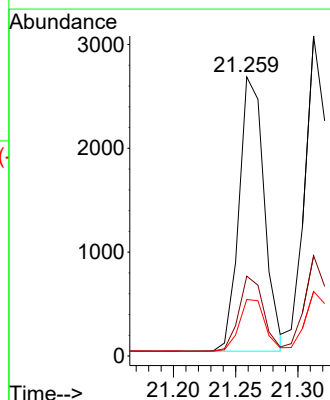
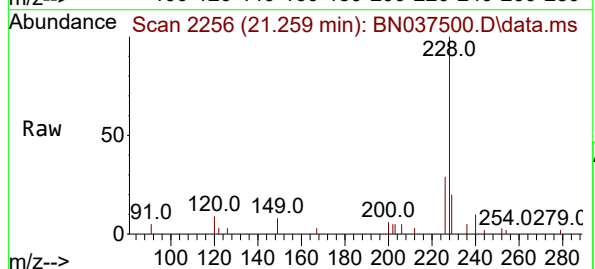
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

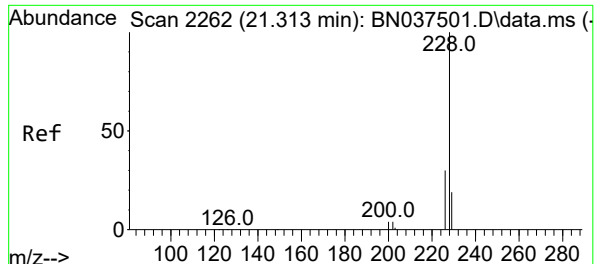
Tgt Ion:244 Resp: 2238
Ion Ratio Lower Upper
244 100
212 9.9 7.4 11.2
122 18.3 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.194 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

Tgt Ion:228 Resp: 3724
Ion Ratio Lower Upper
228 100
226 28.6 21.9 32.9
229 20.3 15.8 23.8





#33

Chrysene

Concen: 0.200 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

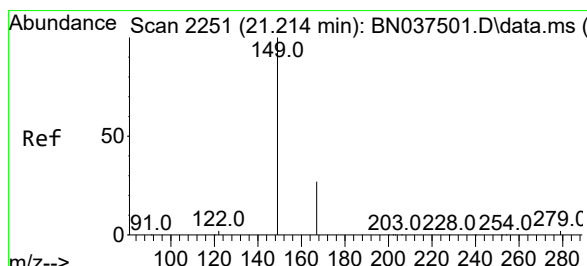
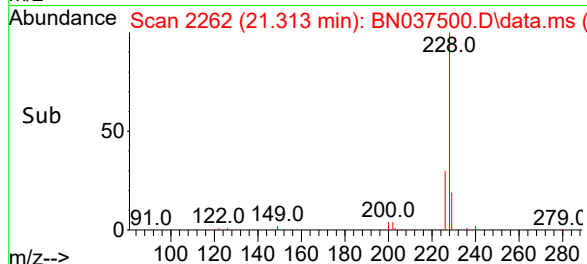
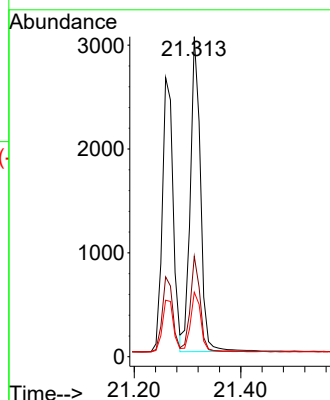
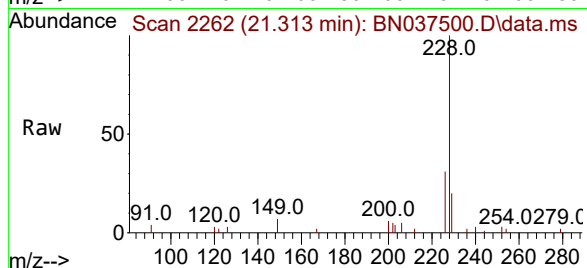
Tgt Ion:228 Resp: 4010

Ion Ratio Lower Upper

228 100

226 31.3 24.2 36.4

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.191 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

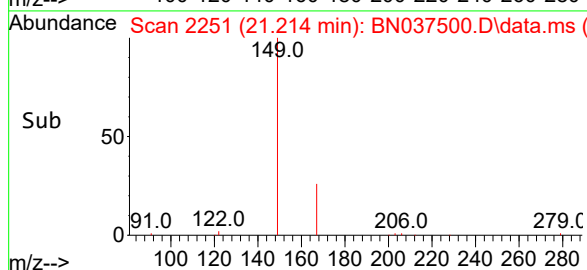
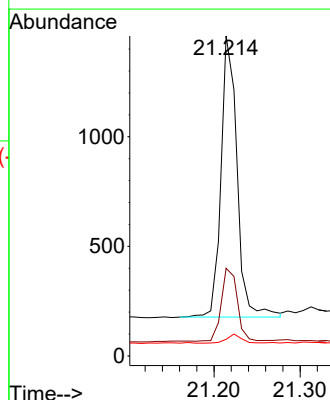
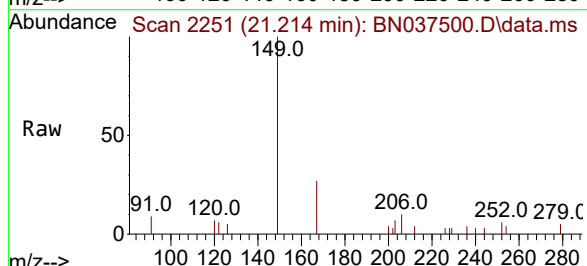
Tgt Ion:149 Resp: 1656

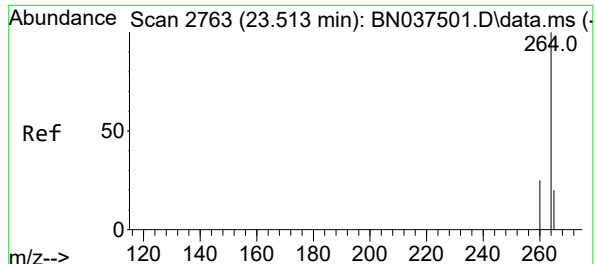
Ion Ratio Lower Upper

149 100

167 25.8 21.8 32.8

279 3.0 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.519 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037500.D

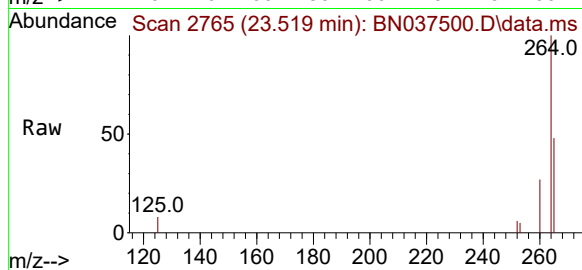
Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



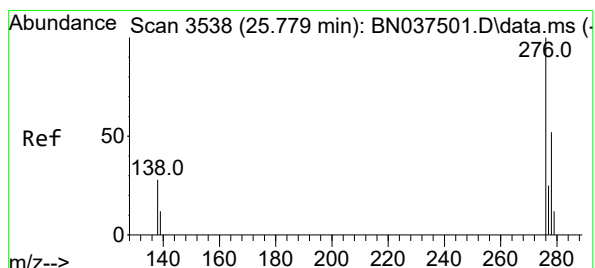
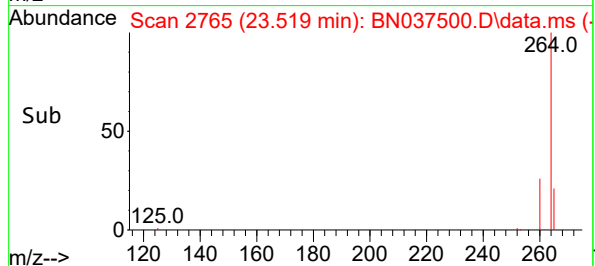
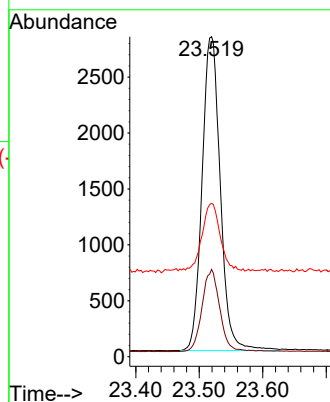
Tgt Ion:264 Resp: 5600

Ion Ratio Lower Upper

264 100

260 27.3 21.2 31.8

265 47.9 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.183 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.009 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

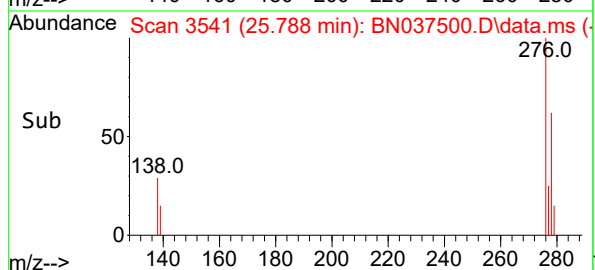
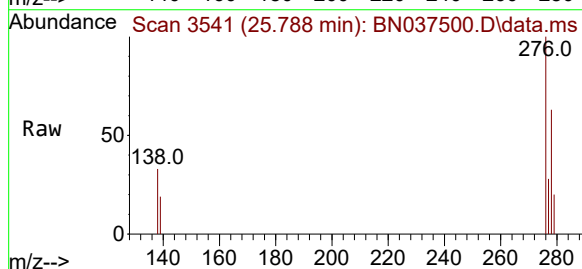
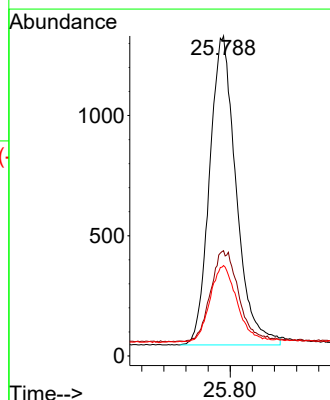
Tgt Ion:276 Resp: 4278

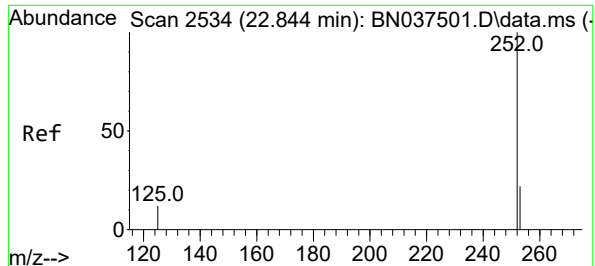
Ion Ratio Lower Upper

276 100

138 31.1 24.0 36.0

277 24.9 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.181 ng

RT: 22.847 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

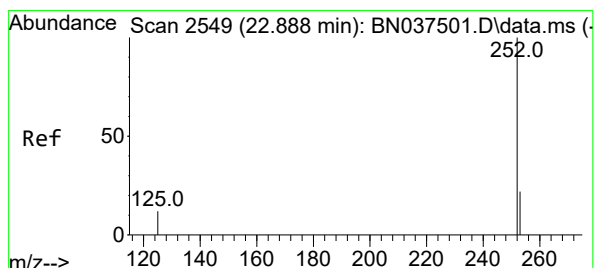
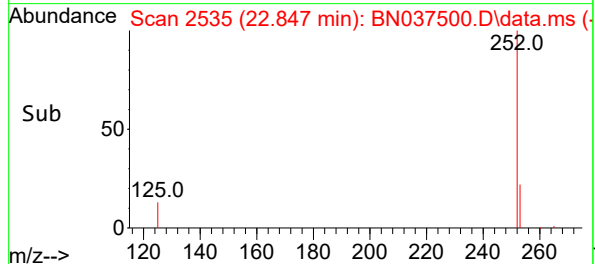
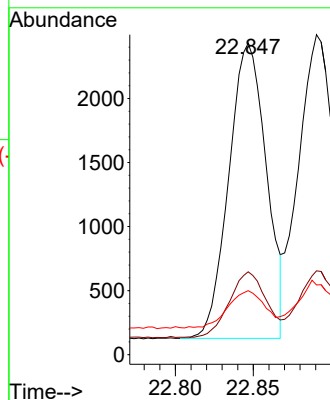
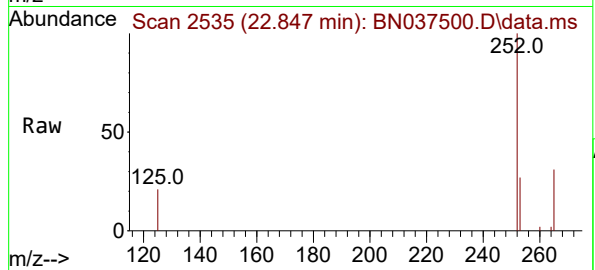
Tgt Ion:252 Resp: 3857

Ion Ratio Lower Upper

252 100

253 26.6 19.5 29.3

125 20.6 13.0 19.6#



#38

Benzo(k)fluoranthene

Concen: 0.181 ng

RT: 22.891 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

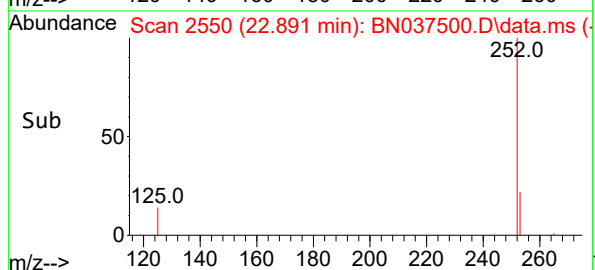
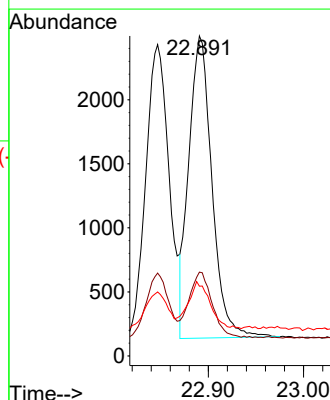
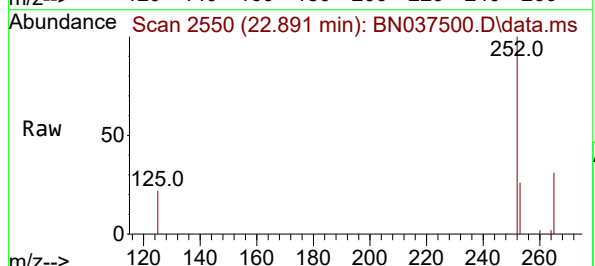
Tgt Ion:252 Resp: 3977

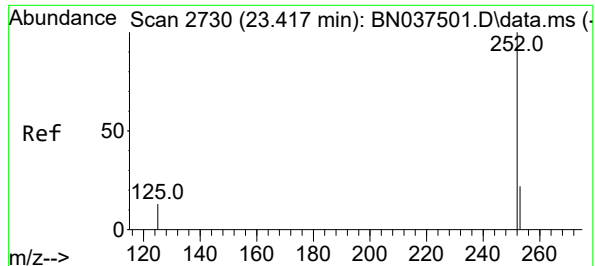
Ion Ratio Lower Upper

252 100

253 26.2 19.5 29.3

125 21.8 13.1 19.7#





#39

Benzo(a)pyrene

Concen: 0.182 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

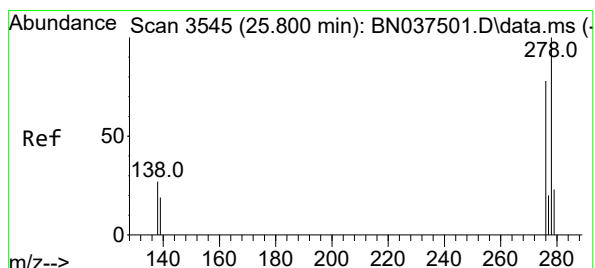
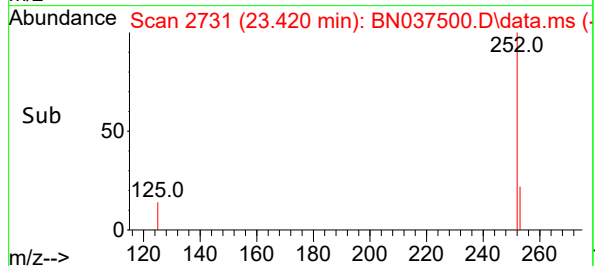
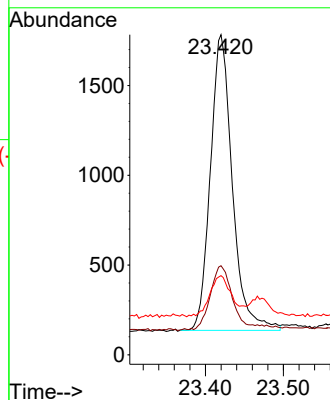
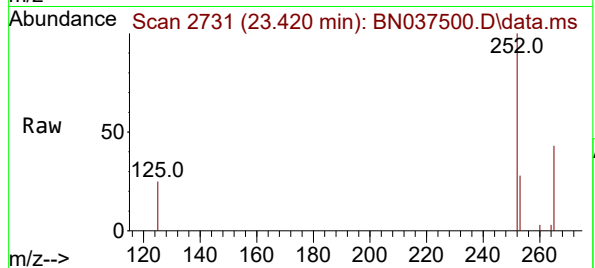
Tgt Ion:252 Resp: 3225

Ion Ratio Lower Upper

252 100

253 27.8 19.9 29.9

125 24.7 15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.181 ng

RT: 25.803 min Scan# 3546

Delta R.T. 0.003 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

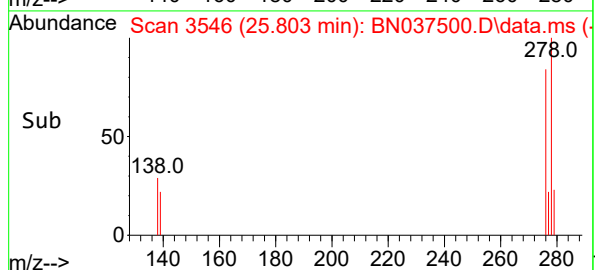
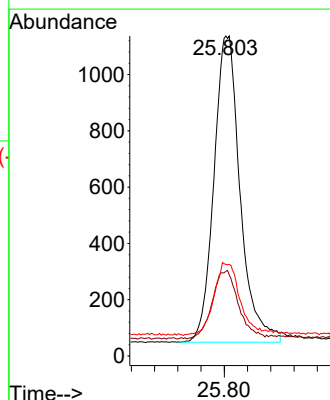
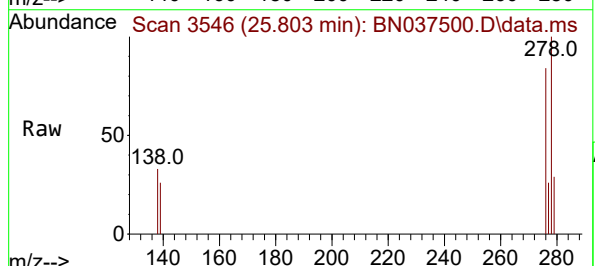
Tgt Ion:278 Resp: 3411

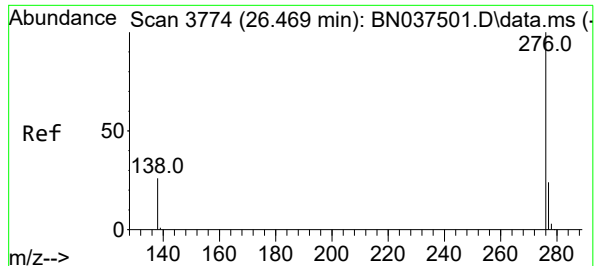
Ion Ratio Lower Upper

278 100

139 26.4 17.5 26.3#

279 28.6 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 26.472 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037500.D

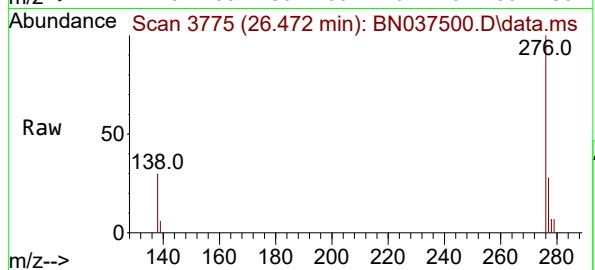
Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



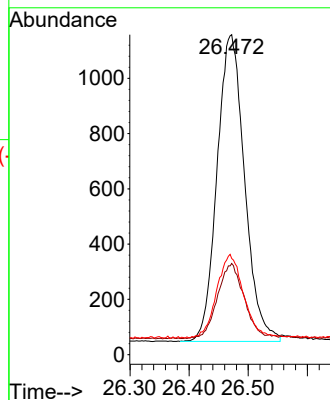
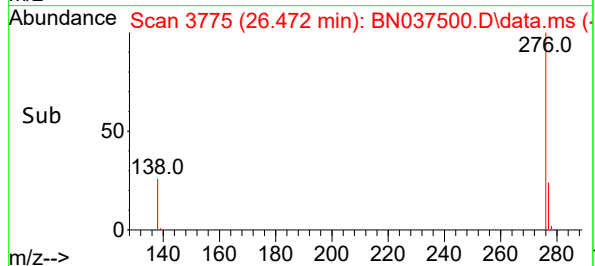
Tgt Ion:276 Resp: 3591

Ion Ratio Lower Upper

276 100

277 28.5 20.9 31.3

138 30.1 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037501.D
 Acq On : 15 Jul 2025 13:49
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jul 15 17:26:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 16:45:15 2025
 Response via : Initial Calibration

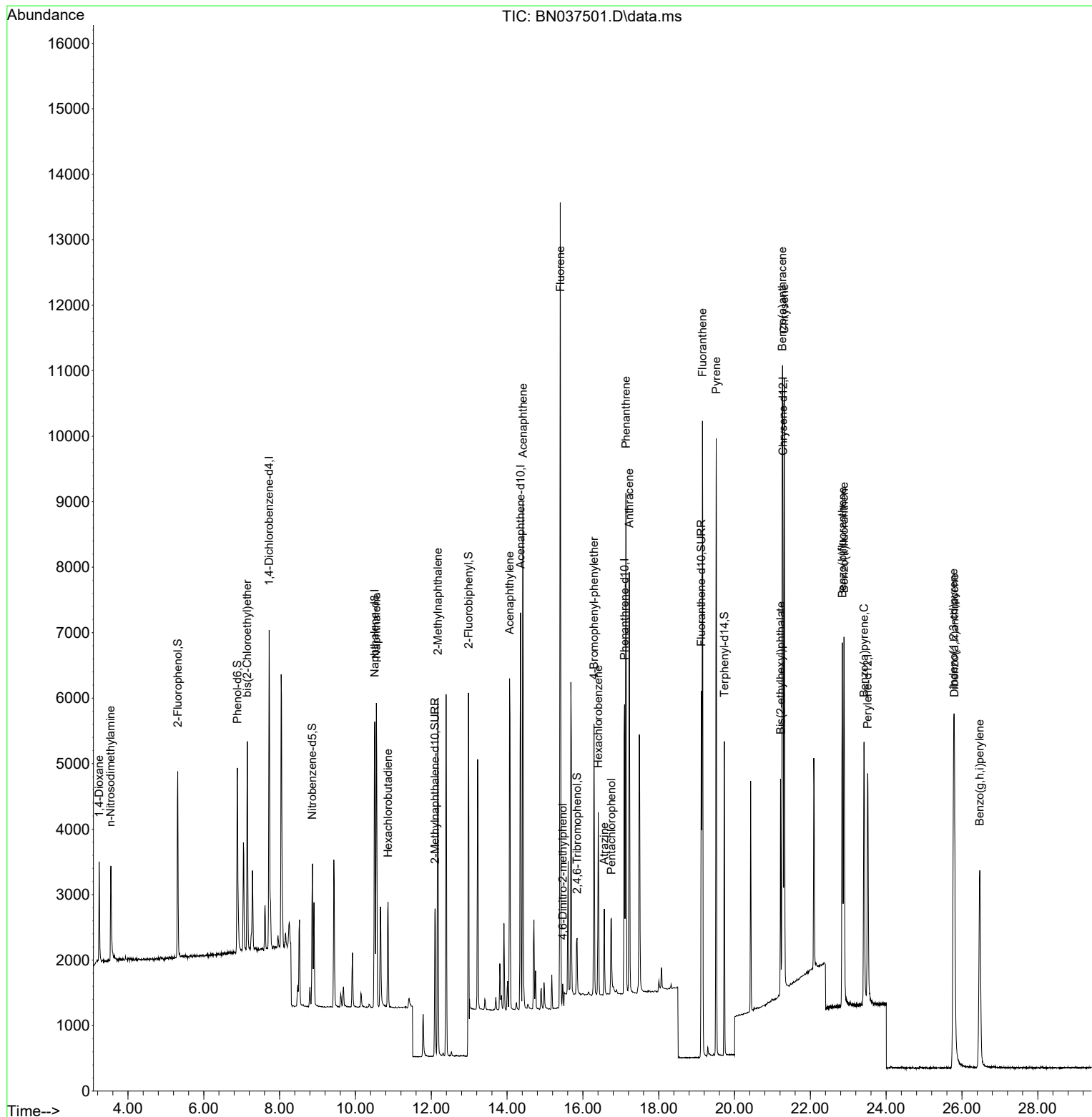
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2287	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5836	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3328	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6474	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5210	0.400	ng	0.00
35) Perylene-d12	23.513	264	4807	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2253	0.398	ng	0.00
5) Phenol-d6	6.887	99	2721	0.384	ng	0.00
8) Nitrobenzene-d5	8.865	82	1650	0.378	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	3156	0.377	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	576	0.352	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	6806	0.393	ng	0.00
27) Fluoranthene-d10	19.127	212	6230	0.363	ng	0.00
31) Terphenyl-d14	19.731	244	4396	0.393	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	904	0.411	ng	100
3) n-Nitrosodimethylamine	3.543	42	1061	0.384	ng	99
6) bis(2-Chloroethyl)ether	7.147	93	2342	0.397	ng	100
9) Naphthalene	10.552	128	6104	0.392	ng	100
10) Hexachlorobutadiene	10.861	225	1371	0.399	ng	# 100
12) 2-Methylnaphthalene	12.172	142	3956	0.387	ng	100
16) Acenaphthylene	14.067	152	5722	0.384	ng	100
17) Acenaphthene	14.420	154	3900	0.385	ng	100
18) Fluorene	15.403	166	4943	0.379	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	268	0.396	ng	100
21) 4-Bromophenyl-phenylether	16.292	248	1574	0.379	ng	100
22) Hexachlorobenzene	16.404	284	2126	0.397	ng	100
23) Atrazine	16.565	200	1027	0.355	ng	100
24) Pentachlorophenol	16.751	266	812	0.338	ng	100
25) Phenanthrene	17.136	178	7511	0.387	ng	100
26) Anthracene	17.223	178	6557	0.370	ng	100
28) Fluoranthene	19.155	202	8352	0.373	ng	100
30) Pyrene	19.517	202	8375	0.399	ng	100
32) Benzo(a)anthracene	21.259	228	6989	0.383	ng	100
33) Chrysene	21.313	228	7472	0.393	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	2941	0.358	ng	100
36) Indeno(1,2,3-cd)pyrene	25.779	276	7280	0.364	ng	100
37) Benzo(b)fluoranthene	22.844	252	6988	0.383	ng	100
38) Benzo(k)fluoranthene	22.888	252	7143	0.379	ng	100
39) Benzo(a)pyrene	23.417	252	5731	0.376	ng	100
40) Dibenzo(a,h)anthracene	25.800	278	5845	0.360	ng	100
41) Benzo(g,h,i)perylene	26.469	276	6293	0.375	ng	100

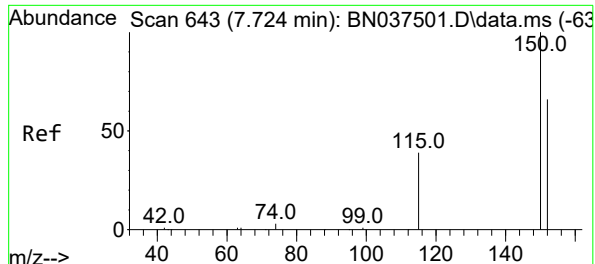
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037501.D
Acq On : 15 Jul 2025 13:49
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jul 15 17:26:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration

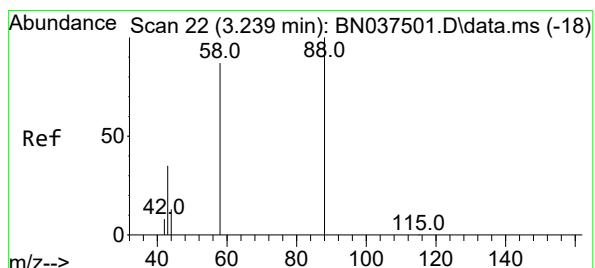
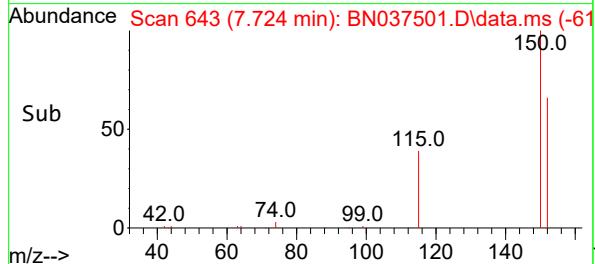
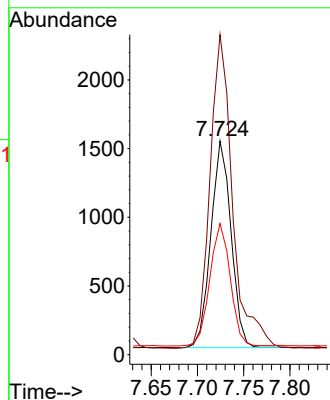
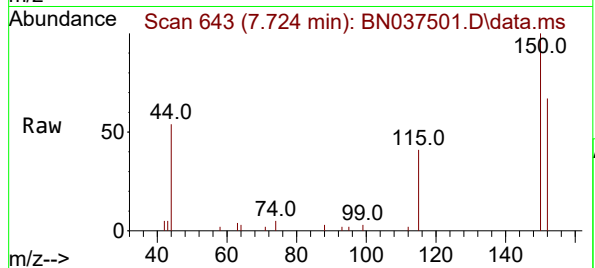




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

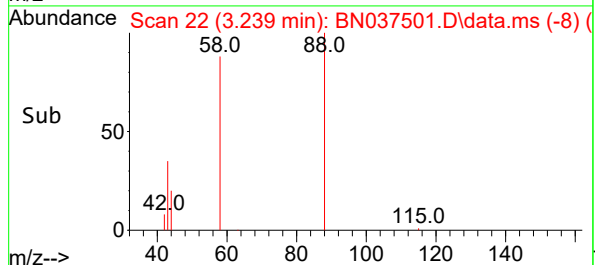
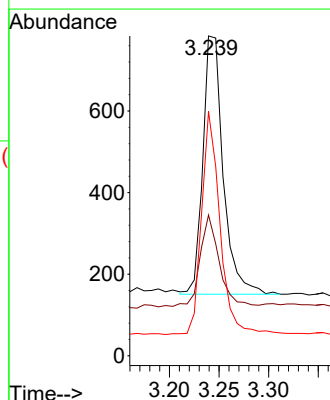
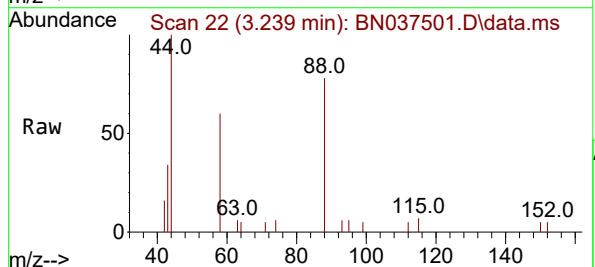
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

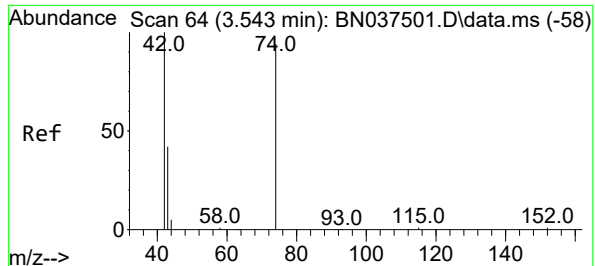
Tgt Ion:152 Resp: 2287
Ion Ratio Lower Upper
152 100
150 149.8 119.8 179.8
115 61.4 49.1 73.7



#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion: 88 Resp: 904
Ion Ratio Lower Upper
88 100
43 34.4 27.5 41.3
58 78.3 62.7 94.1

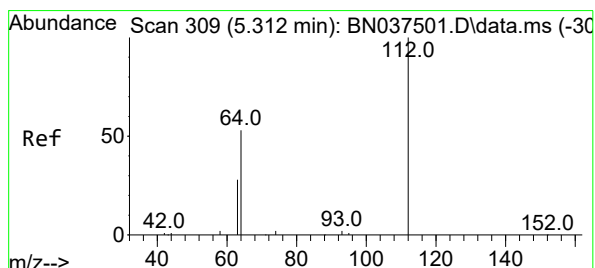
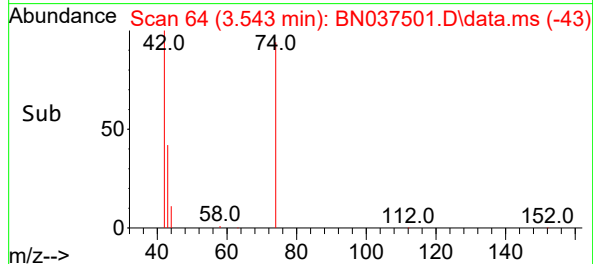
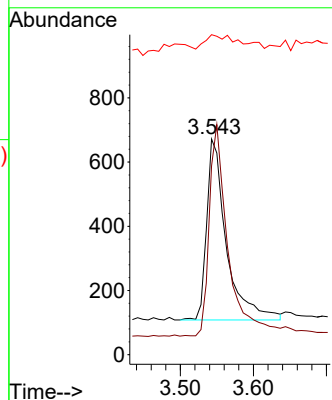
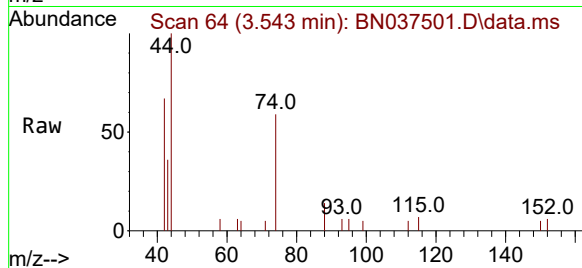




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

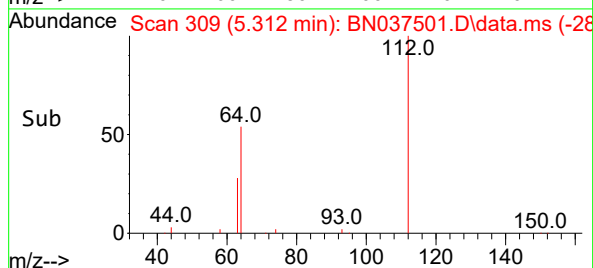
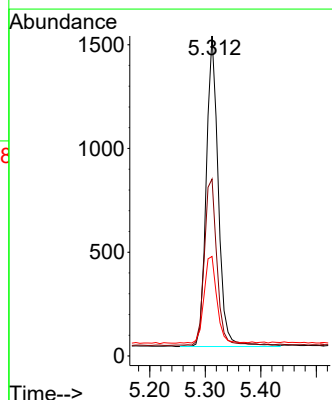
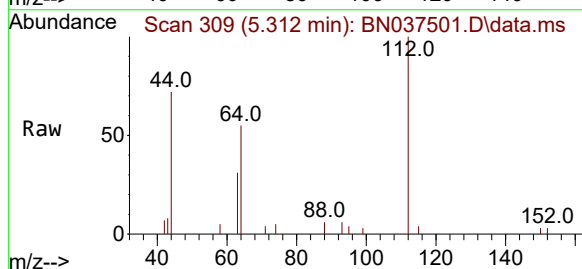
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

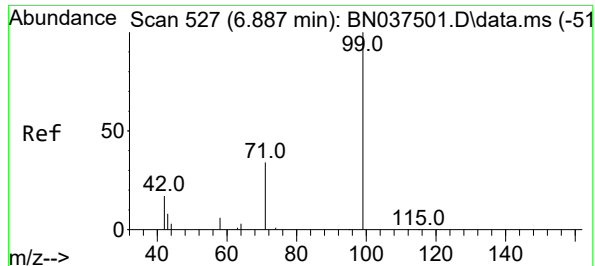
Tgt Ion: 42 Resp: 1061
Ion Ratio Lower Upper
42 100
74 113.4 91.8 137.6
44 18.8 15.0 22.6



#4
2-Fluorophenol
Concen: 0.398 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion: 112 Resp: 2253
Ion Ratio Lower Upper
112 100
64 56.4 45.1 67.7
63 29.8 23.8 35.8

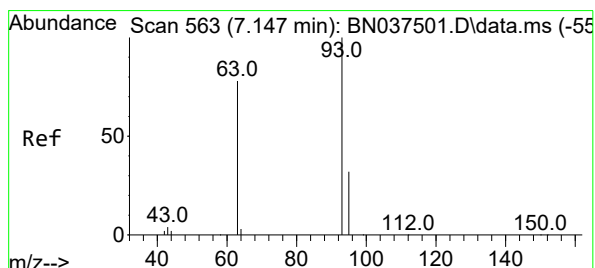
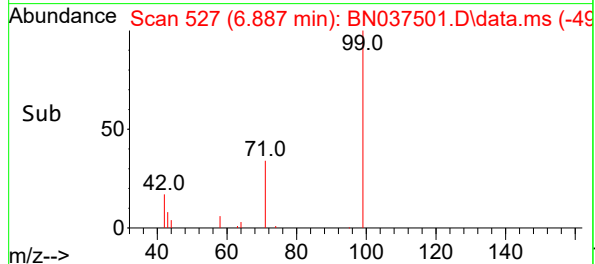
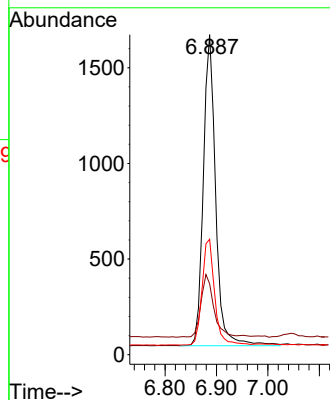
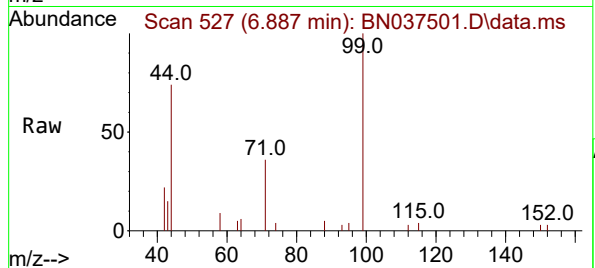




#5
Phenol-d6
Concen: 0.384 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

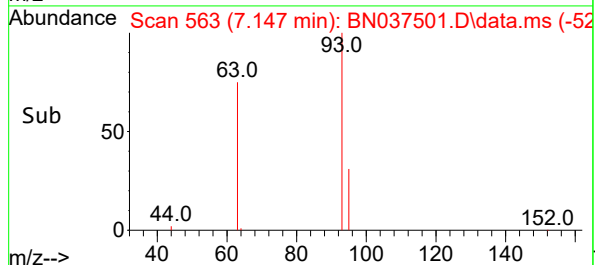
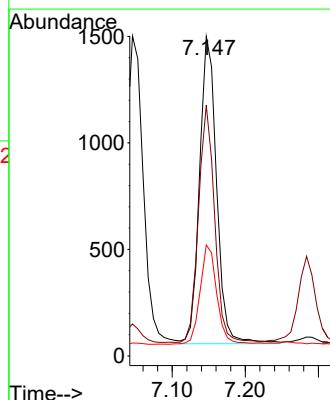
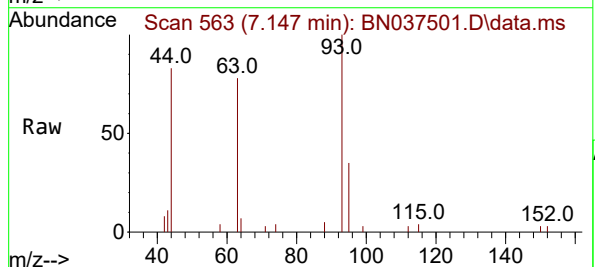
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

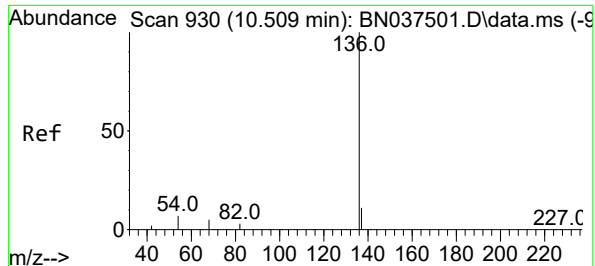
Tgt Ion: 99 Resp: 2721
Ion Ratio Lower Upper
99 100
42 21.4 17.1 25.7
71 34.8 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion: 93 Resp: 2342
Ion Ratio Lower Upper
93 100
63 72.8 58.2 87.4
95 31.6 25.3 37.9

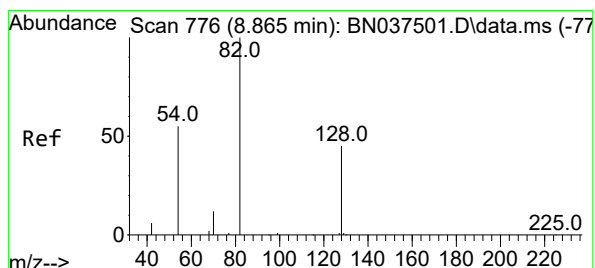
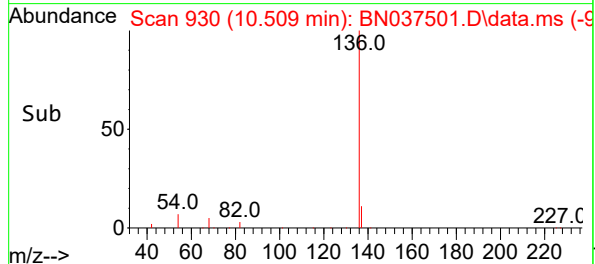
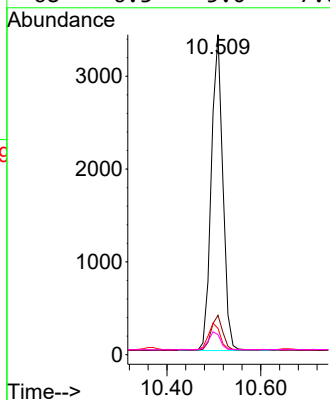
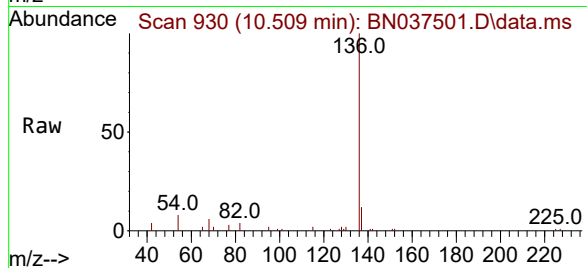




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

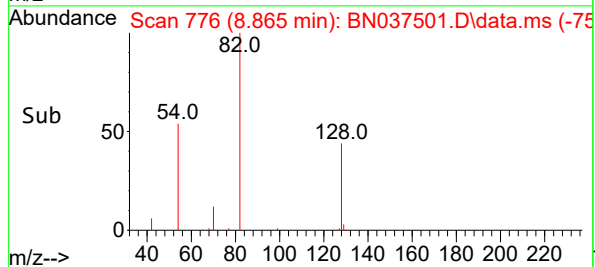
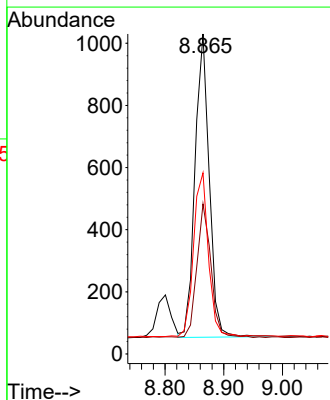
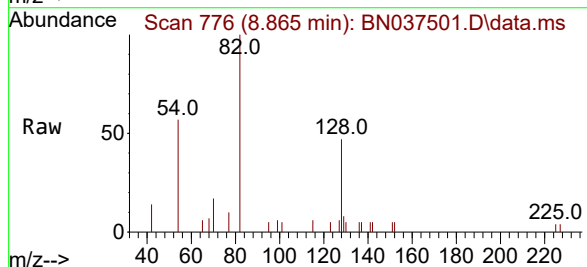
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

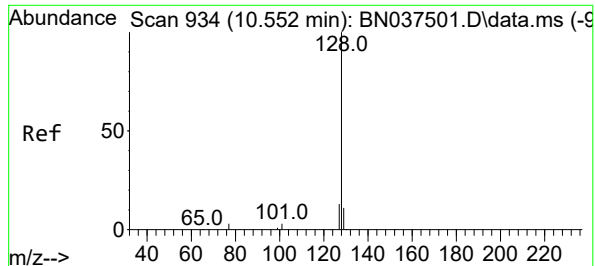
Tgt Ion:	136	Resp:	5836
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	8.2	6.6	9.8
68	6.3	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.378 ng
RT: 8.865 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion:	82	Resp:	1650
Ion	Ratio	Lower	Upper
82	100		
128	46.9	37.5	56.3
54	56.6	45.3	67.9

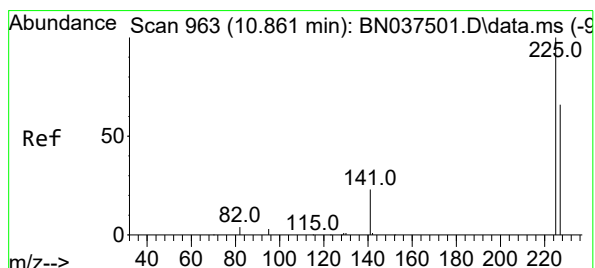
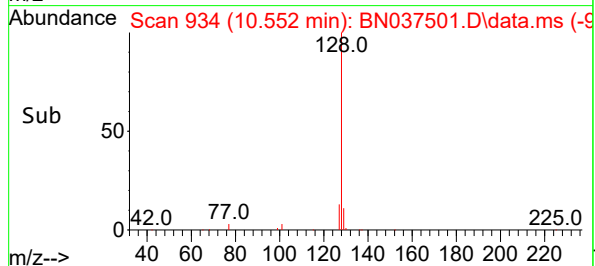
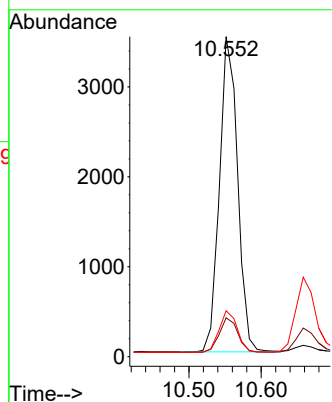
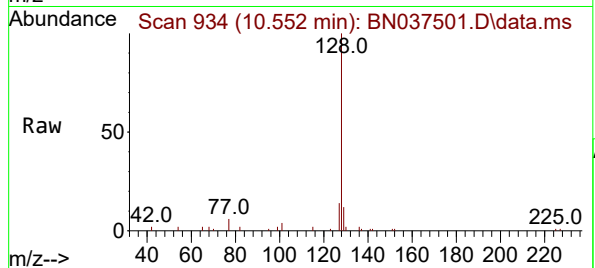




#9
Naphthalene
Concen: 0.392 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

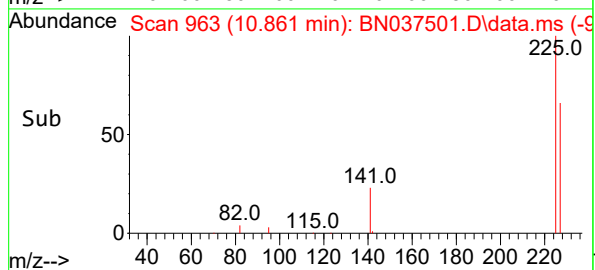
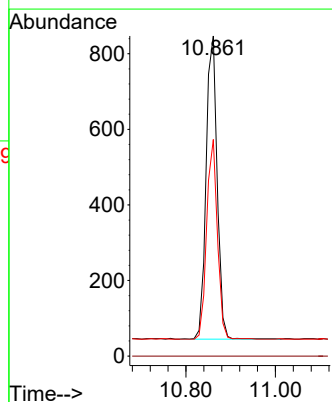
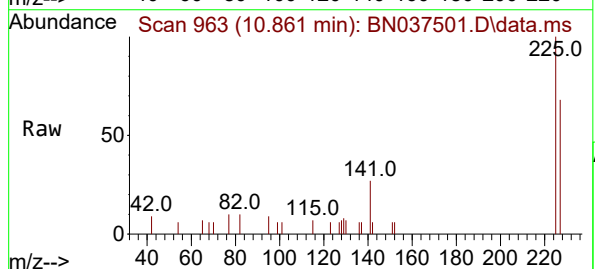
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

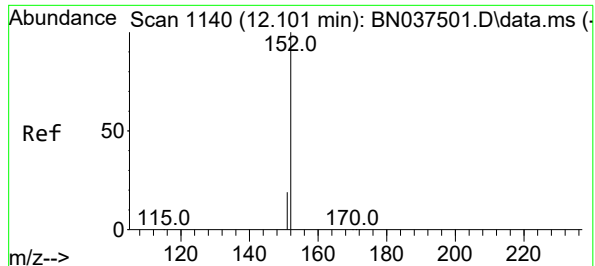
Tgt Ion:128 Resp: 6104
Ion Ratio Lower Upper
128 100
129 12.1 9.7 14.5
127 14.4 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion:225 Resp: 1371
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.0 76.4

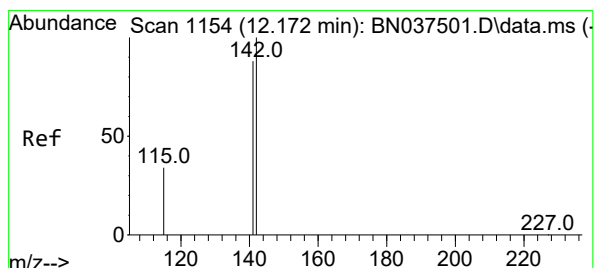
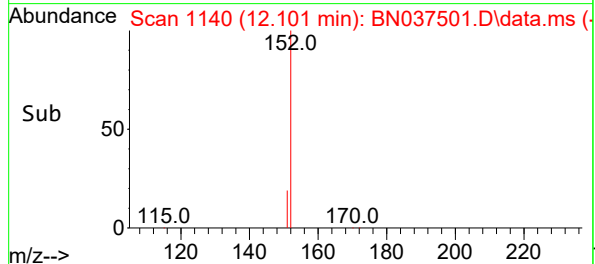
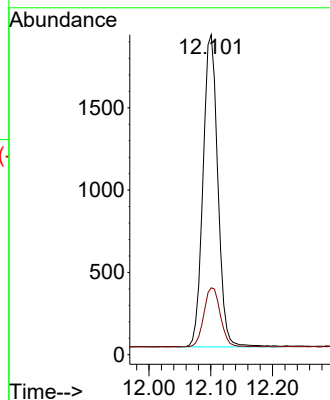
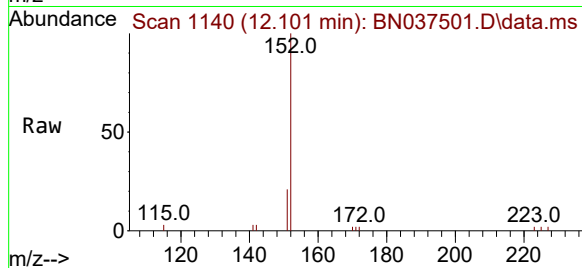




#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

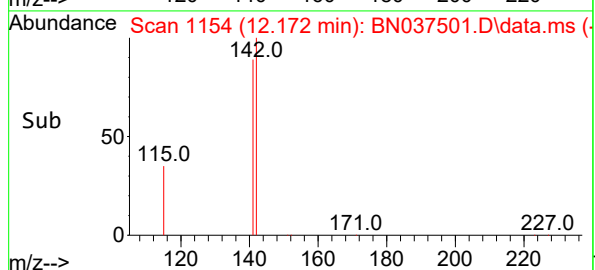
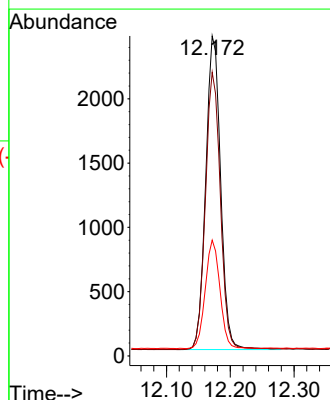
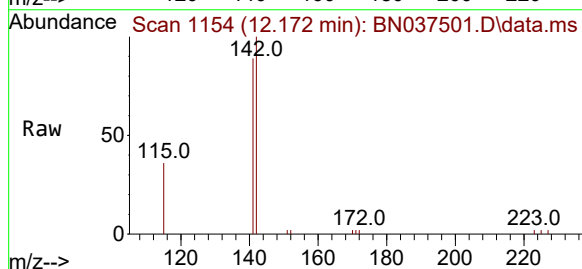
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

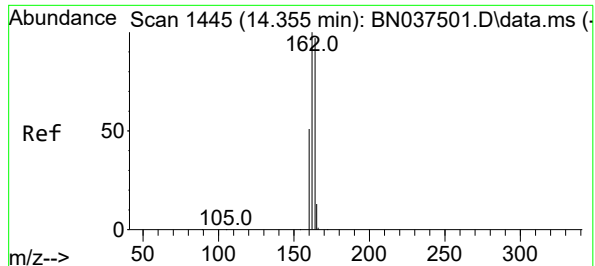
Tgt Ion:152 Resp: 3156
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion:142 Resp: 3956
Ion Ratio Lower Upper
142 100
141 88.7 71.0 106.4
115 36.2 29.0 43.4

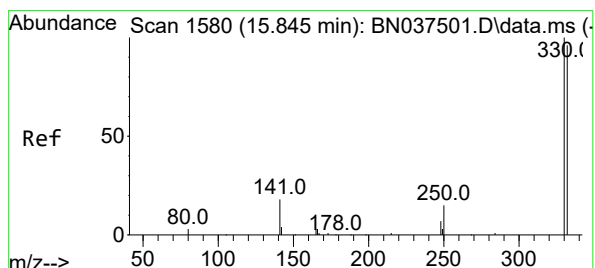
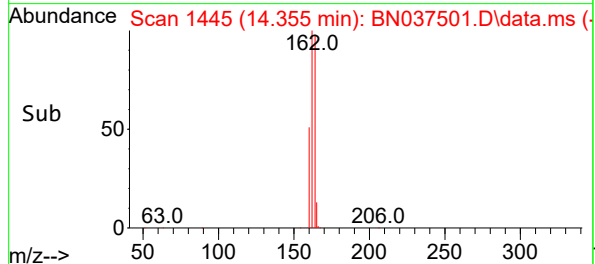
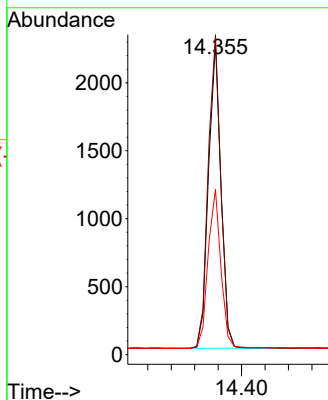
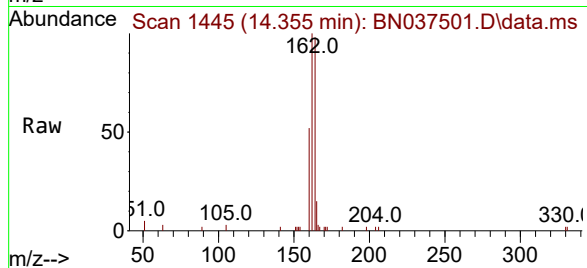




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

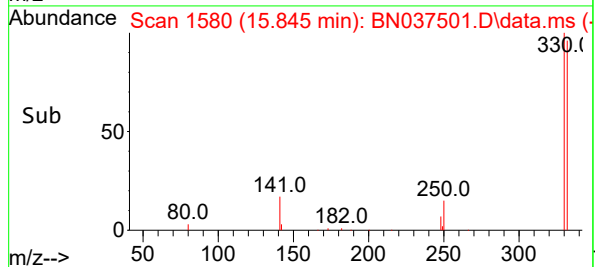
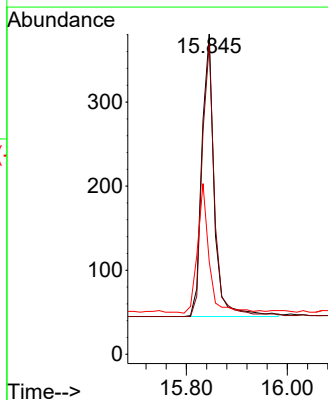
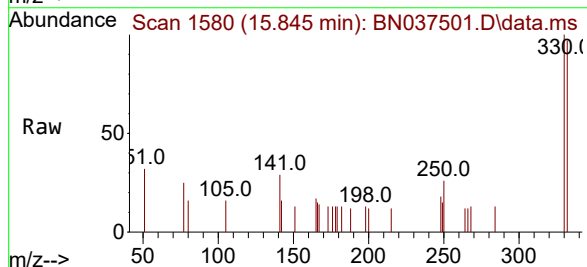
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

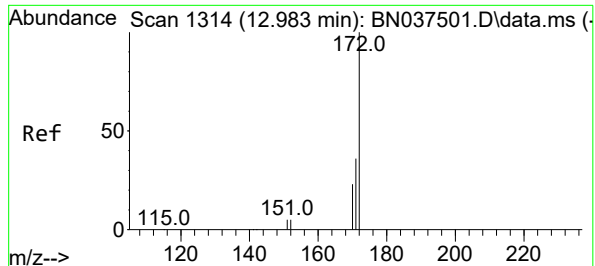
Tgt Ion:164 Resp: 3328
Ion Ratio Lower Upper
164 100
162 102.5 82.0 123.0
160 53.0 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.352 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion:330 Resp: 576
Ion Ratio Lower Upper
330 100
332 95.1 76.1 114.1
141 41.7 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.393 ng

RT: 12.983 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

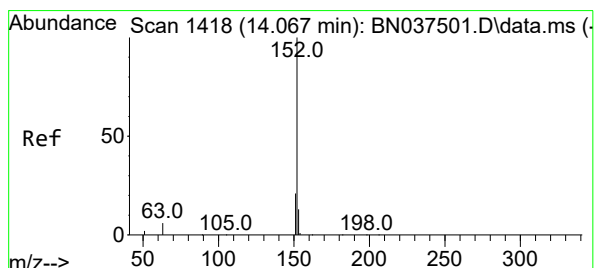
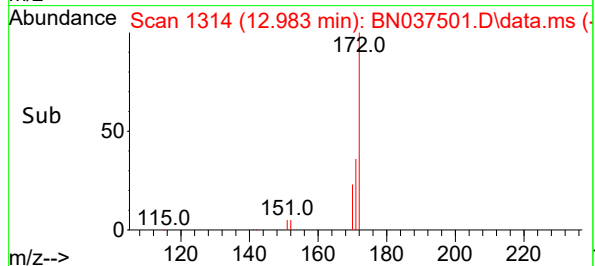
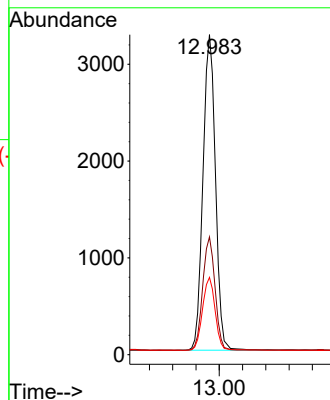
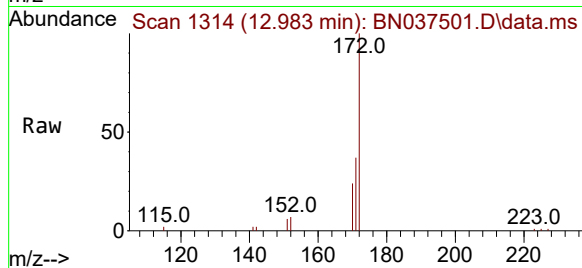
Tgt Ion:172 Resp: 6806

Ion Ratio Lower Upper

172 100

171 36.8 29.4 44.2

170 24.2 19.4 29.0



#16

Acenaphthylene

Concen: 0.384 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

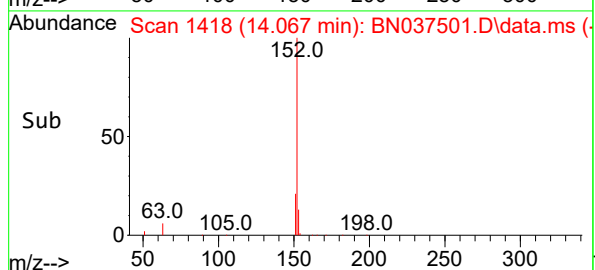
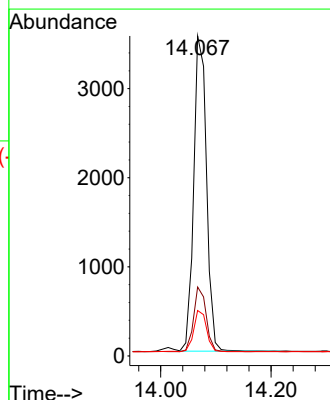
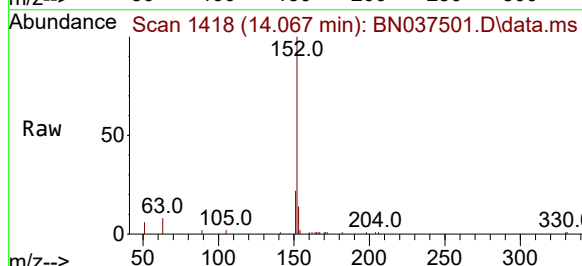
Tgt Ion:152 Resp: 5722

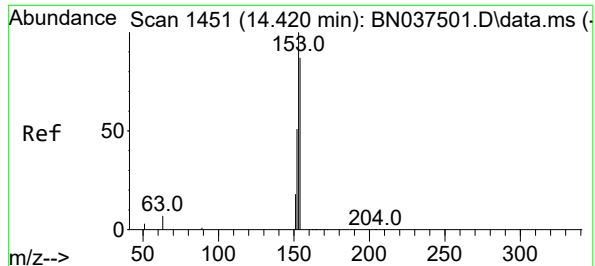
Ion Ratio Lower Upper

152 100

151 19.9 15.9 23.9

153 13.4 10.7 16.1





#17

Acenaphthene

Concen: 0.385 ng

RT: 14.420 min Scan# 1451

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

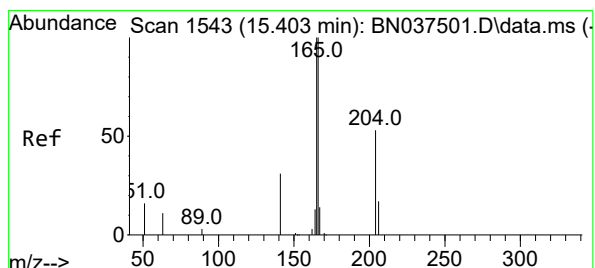
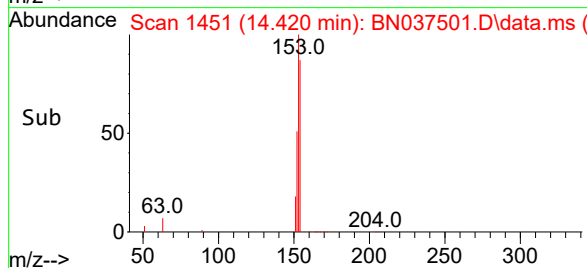
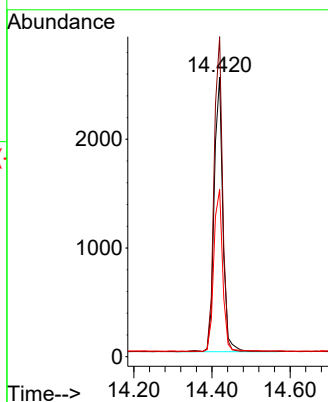
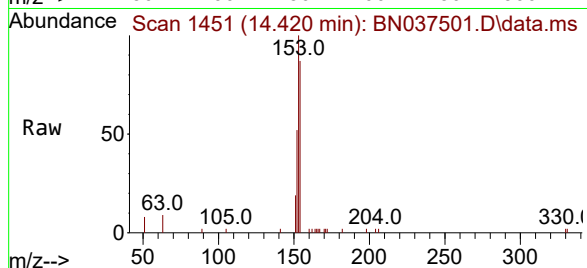
Tgt Ion:154 Resp: 3900

Ion Ratio Lower Upper

154 100

153 111.5 89.2 133.8

152 60.0 48.0 72.0



#18

Fluorene

Concen: 0.379 ng

RT: 15.403 min Scan# 1543

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

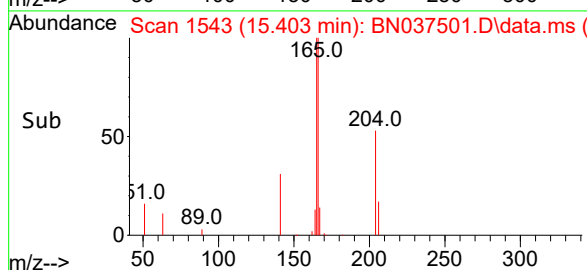
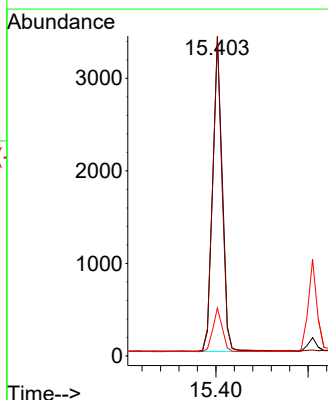
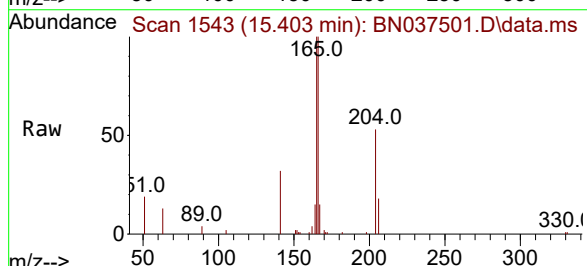
Tgt Ion:166 Resp: 4943

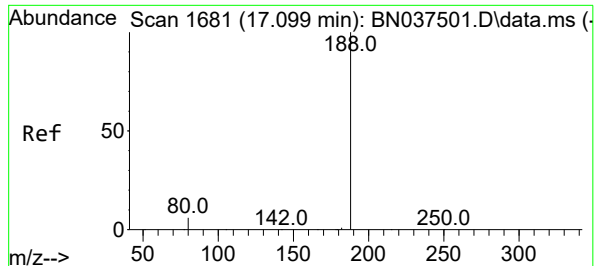
Ion Ratio Lower Upper

166 100

165 97.6 78.1 117.1

167 13.8 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

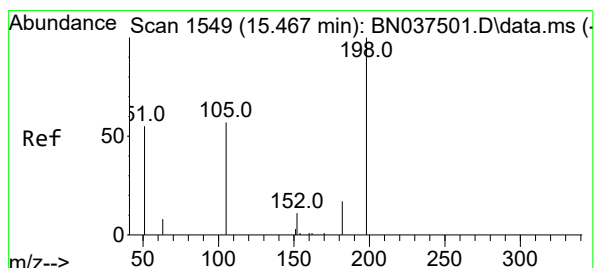
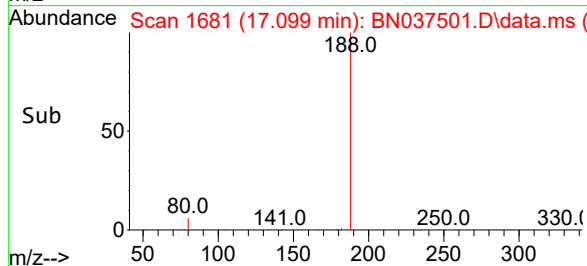
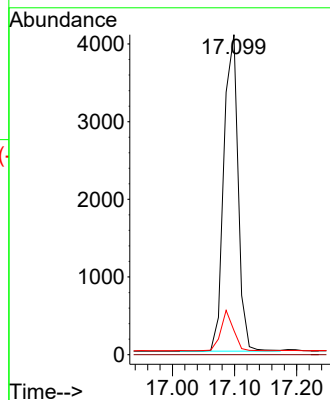
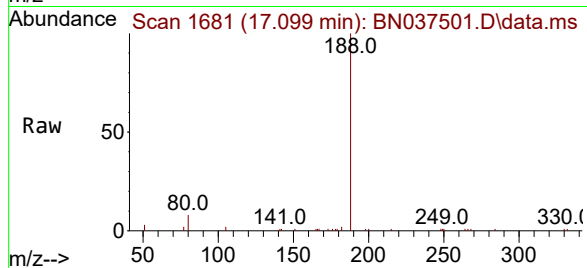
Tgt Ion:188 Resp: 6474

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.396 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

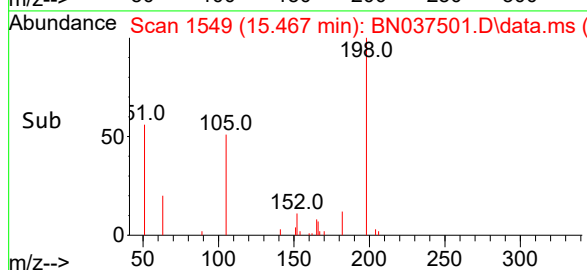
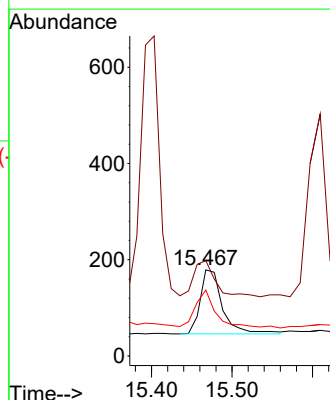
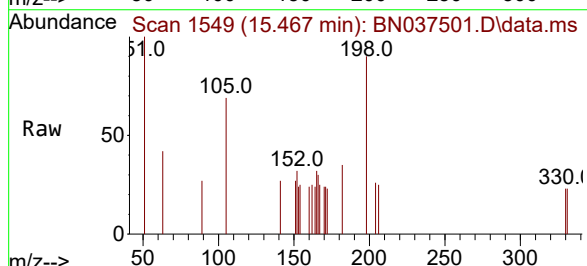
Tgt Ion:198 Resp: 268

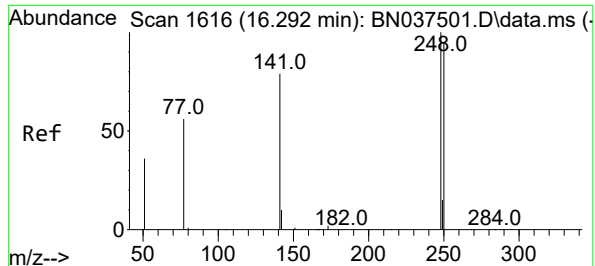
Ion Ratio Lower Upper

198 100

51 110.6 88.5 132.7

105 76.5 61.2 91.8

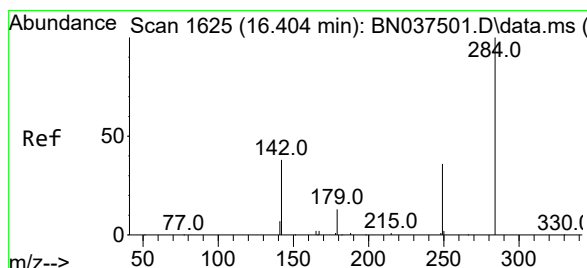
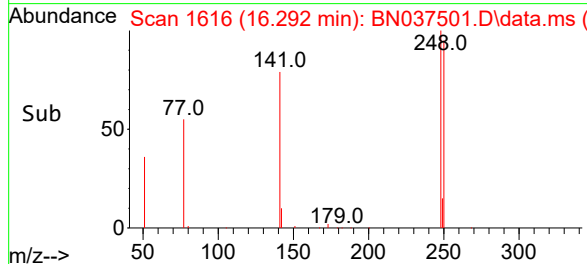
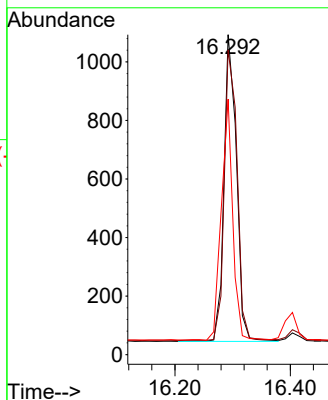
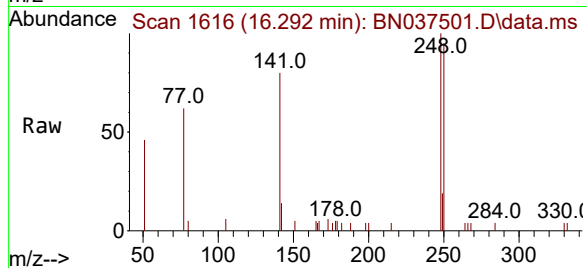




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

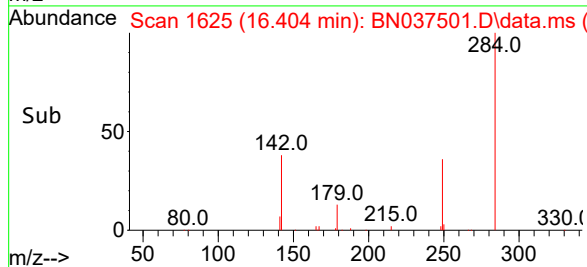
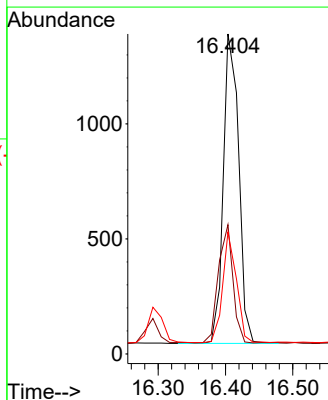
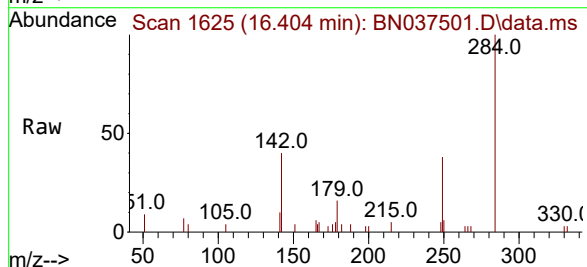
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

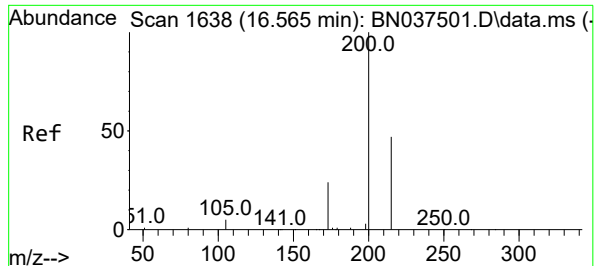
Tgt Ion:248 Resp: 1574
Ion Ratio Lower Upper
248 100
250 95.2 76.2 114.2
141 79.9 63.9 95.9



#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion:284 Resp: 2126
Ion Ratio Lower Upper
284 100
142 36.1 28.9 43.3
249 32.2 25.8 38.6





#23

Atrazine

Concen: 0.355 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

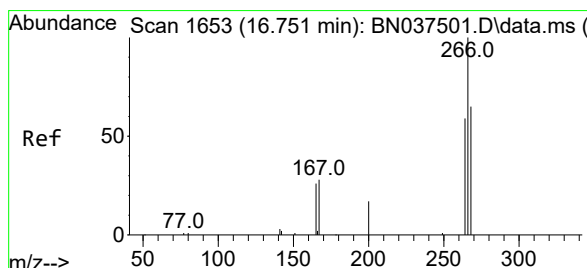
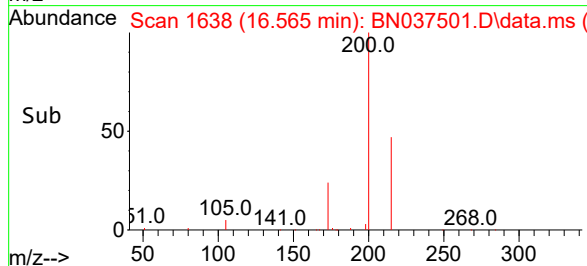
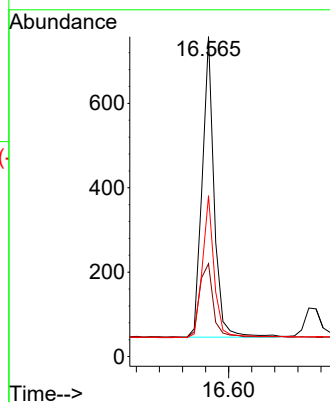
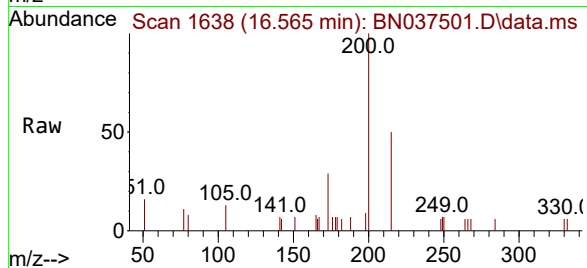
Tgt Ion:200 Resp: 1027

Ion Ratio Lower Upper

200 100

173 29.0 23.2 34.8

215 50.3 40.2 60.4



#24

Pentachlorophenol

Concen: 0.338 ng

RT: 16.751 min Scan# 1653

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

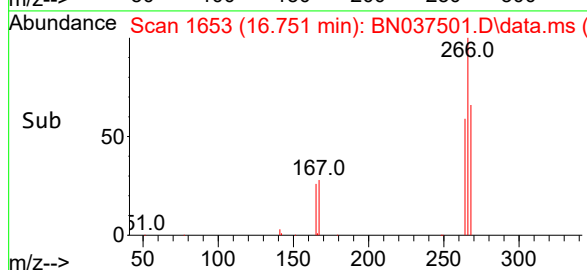
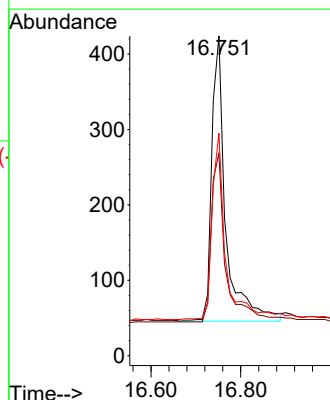
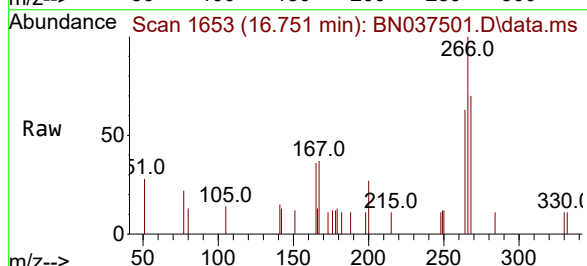
Tgt Ion:266 Resp: 812

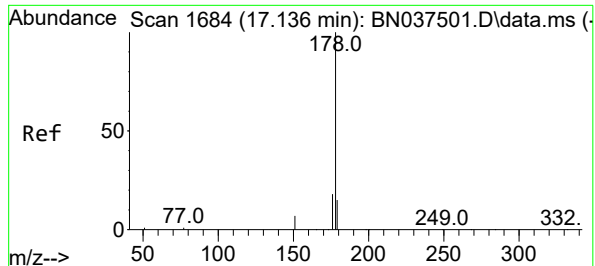
Ion Ratio Lower Upper

266 100

264 61.6 49.3 73.9

268 64.5 51.6 77.4





#25

Phenanthrene

Concen: 0.387 ng

RT: 17.136 min Scan# 1684

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

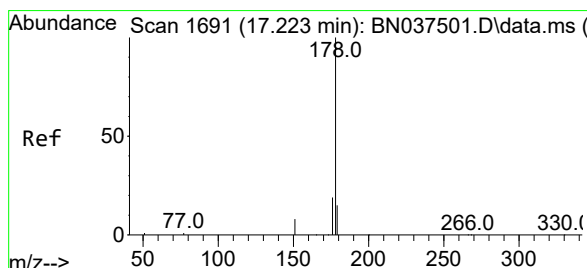
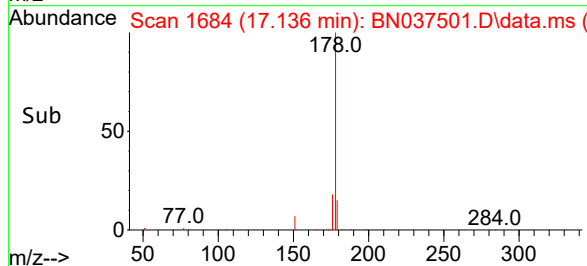
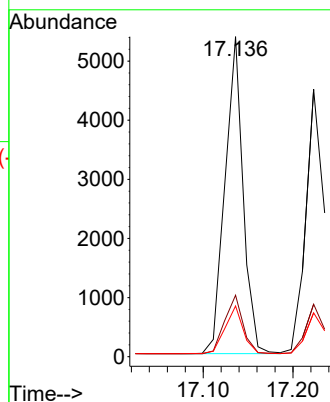
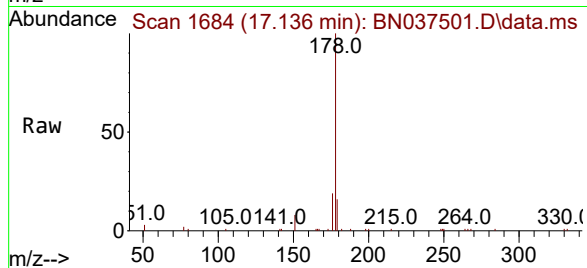
Tgt Ion:178 Resp: 7511

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.2 12.2 18.2



#26

Anthracene

Concen: 0.370 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

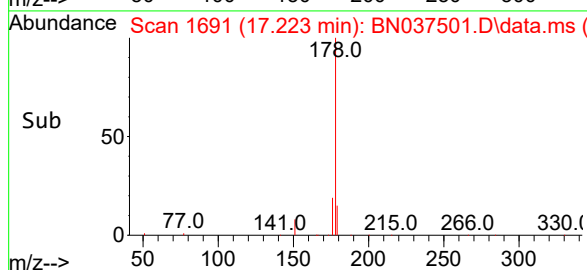
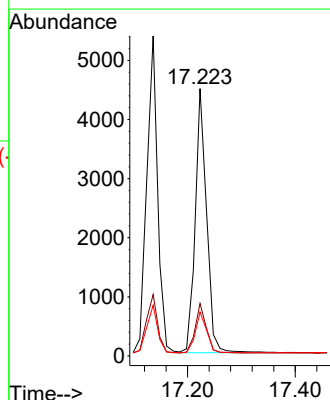
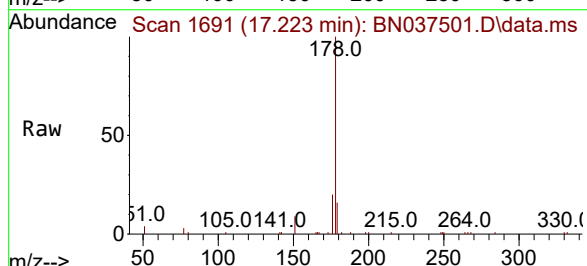
Tgt Ion:178 Resp: 6557

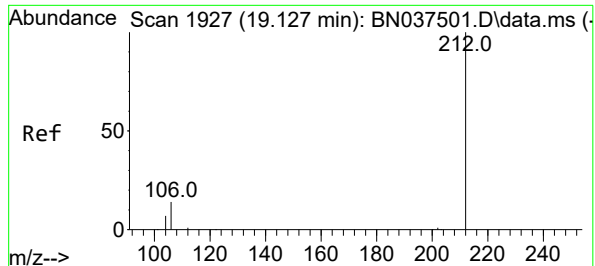
Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

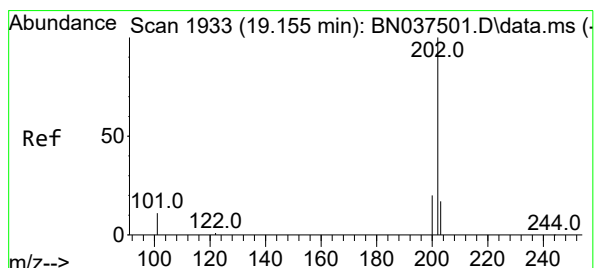
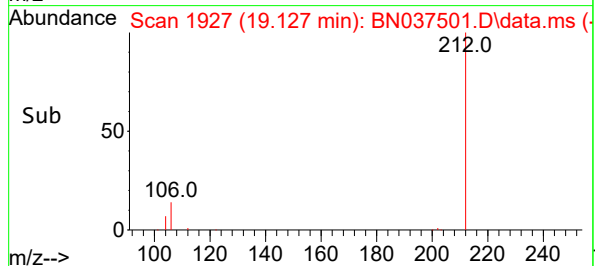
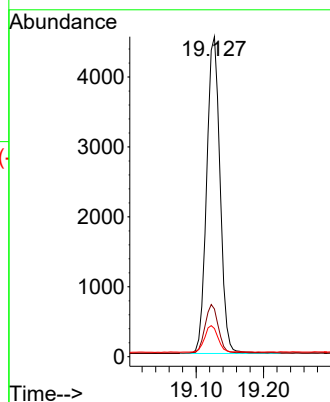
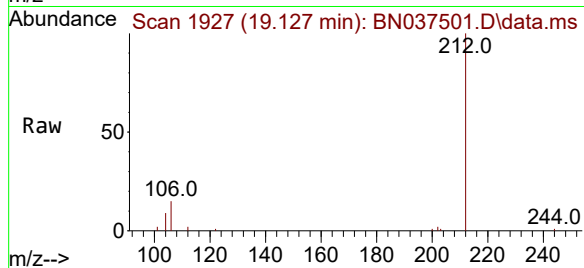
Tgt Ion:212 Resp: 6230

Ion Ratio Lower Upper

212 100

106 15.3 12.2 18.4

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 0.373 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

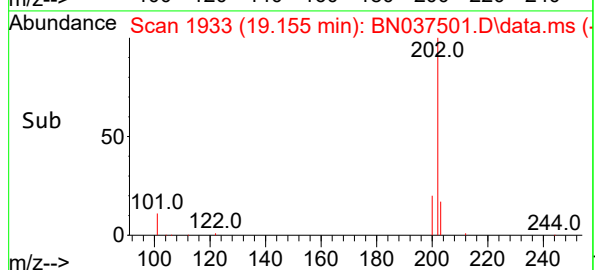
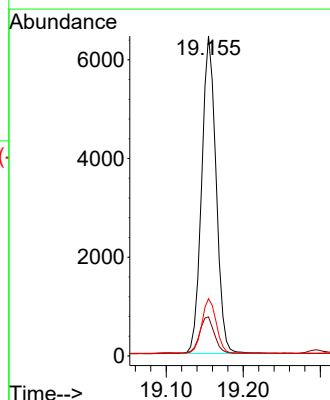
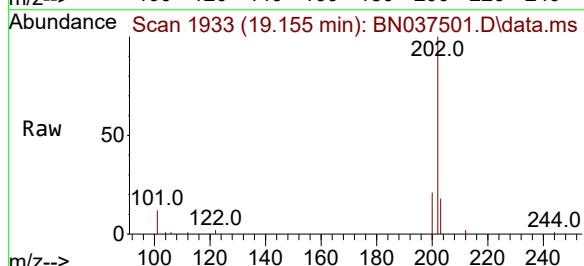
Tgt Ion:202 Resp: 8352

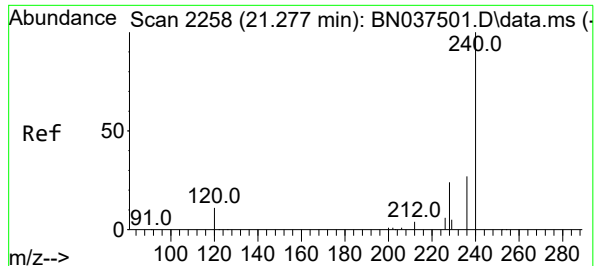
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

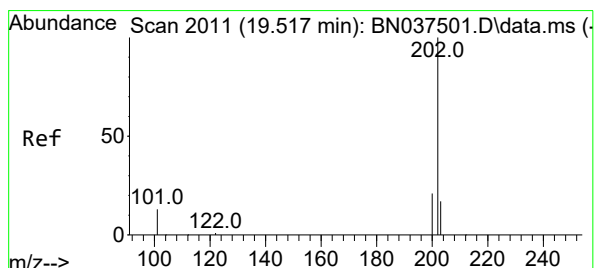
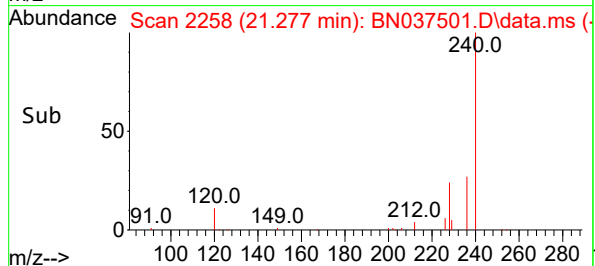
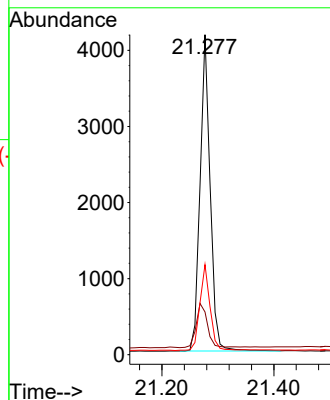
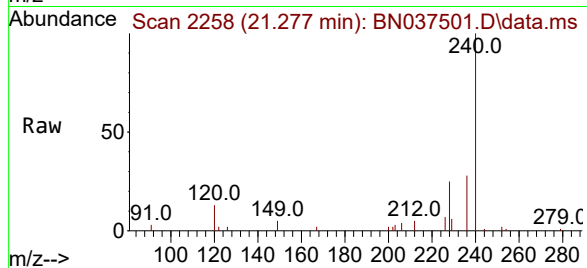
Tgt Ion:240 Resp: 5210

Ion Ratio Lower Upper

240 100

120 13.4 10.7 16.1

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.399 ng

RT: 19.517 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

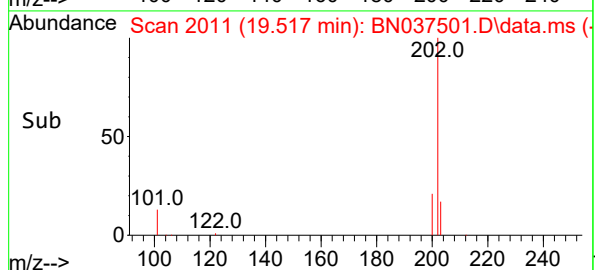
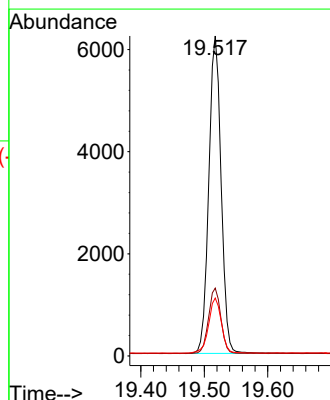
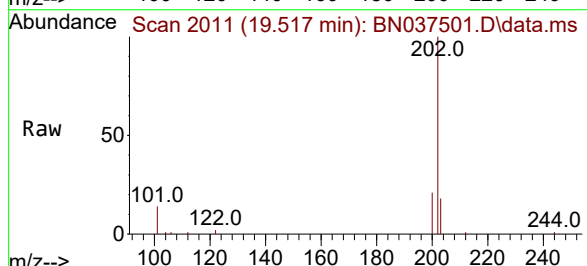
Tgt Ion:202 Resp: 8375

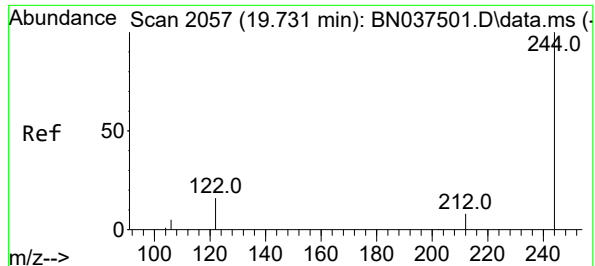
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.9 14.3 21.5

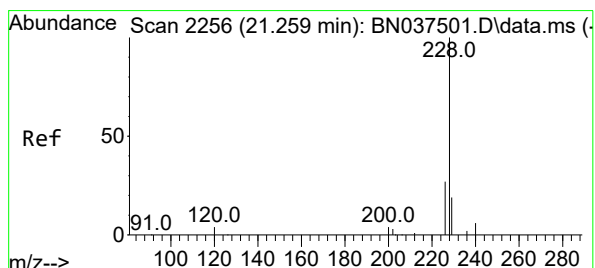
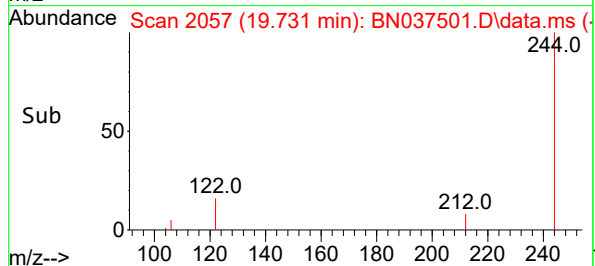
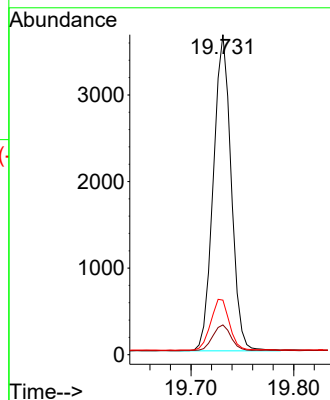
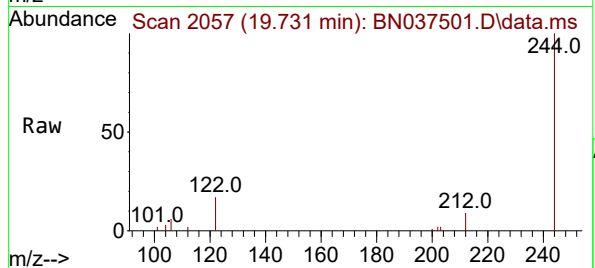




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

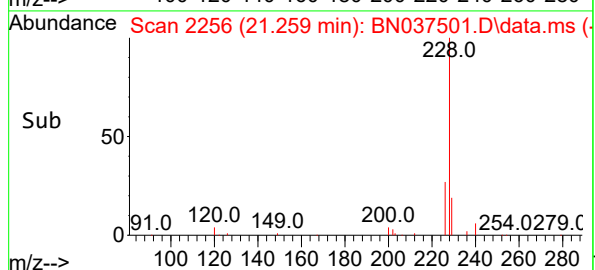
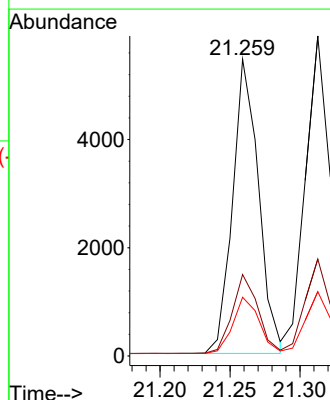
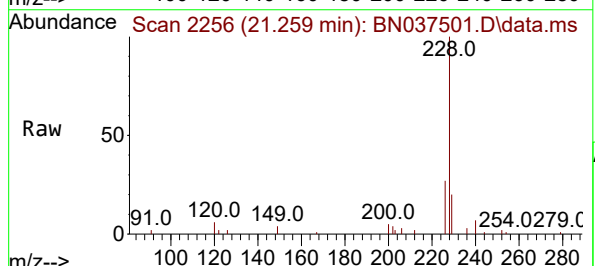
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

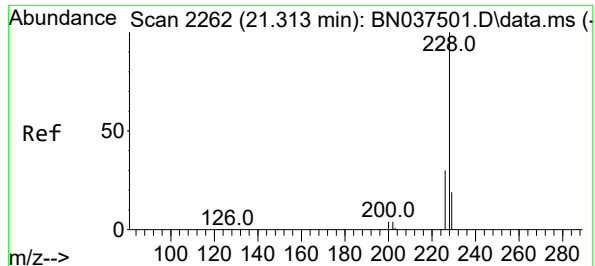
Tgt Ion:244 Resp: 4396
Ion Ratio Lower Upper
244 100
212 9.3 7.4 11.2
122 17.0 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion:228 Resp: 6989
Ion Ratio Lower Upper
228 100
226 27.4 21.9 32.9
229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.393 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

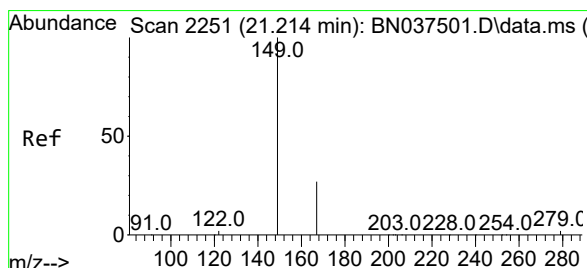
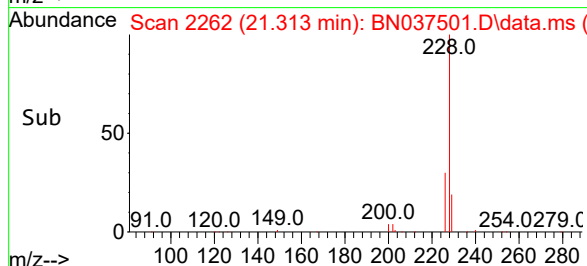
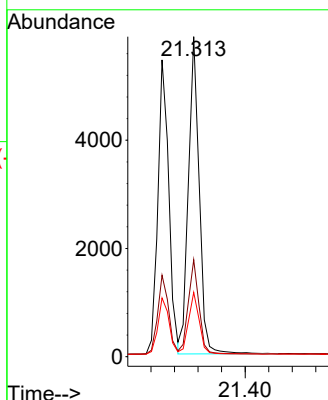
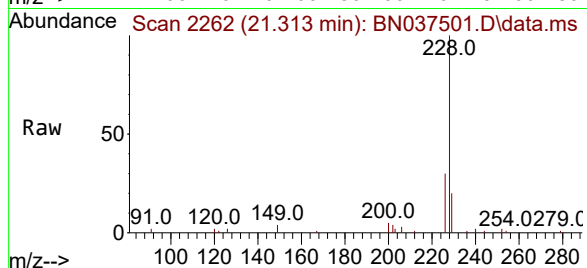
Tgt Ion:228 Resp: 7472

Ion Ratio Lower Upper

228 100

226 30.3 24.2 36.4

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

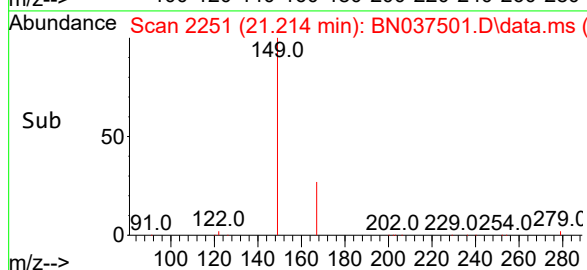
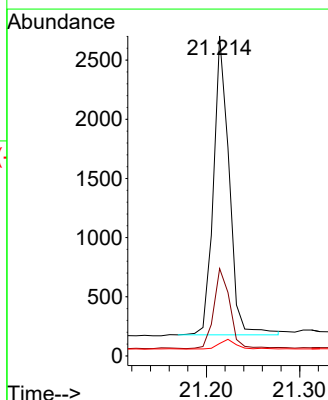
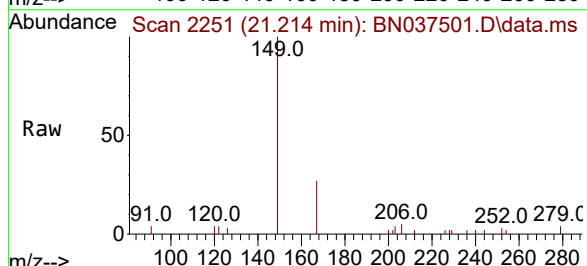
Tgt Ion:149 Resp: 2941

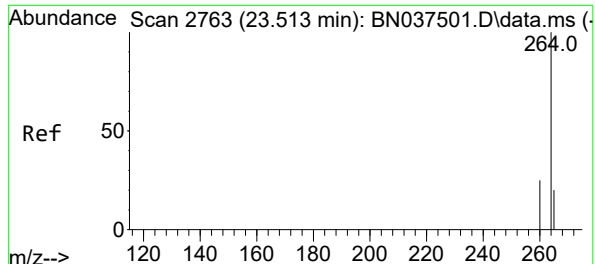
Ion Ratio Lower Upper

149 100

167 27.3 21.8 32.8

279 3.7 3.0 4.4

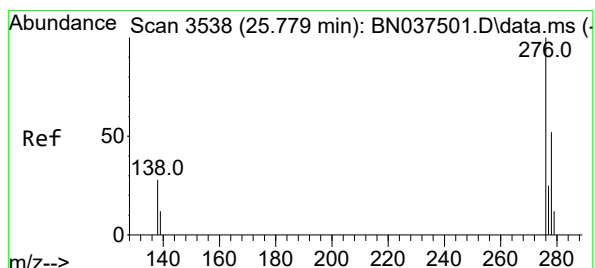
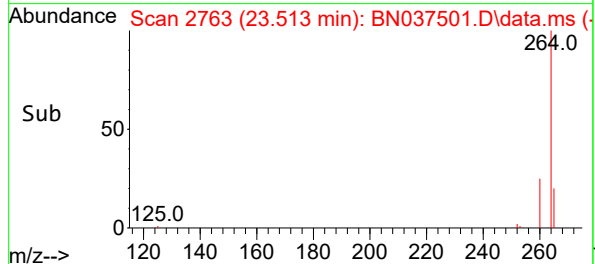
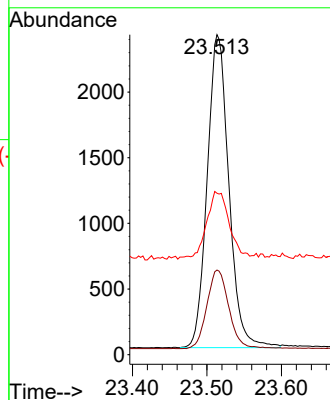
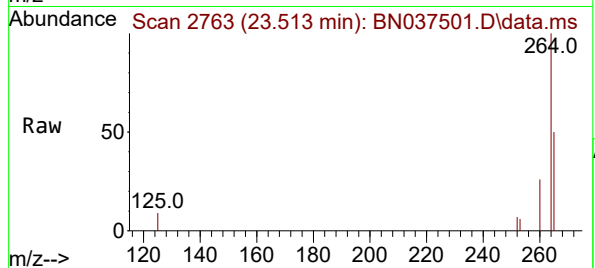




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

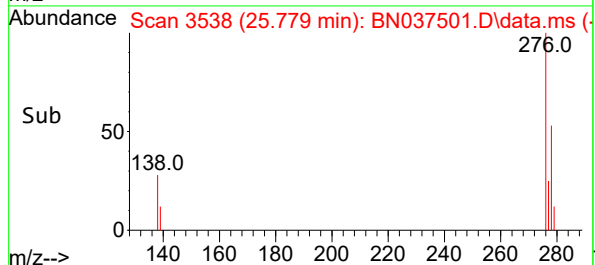
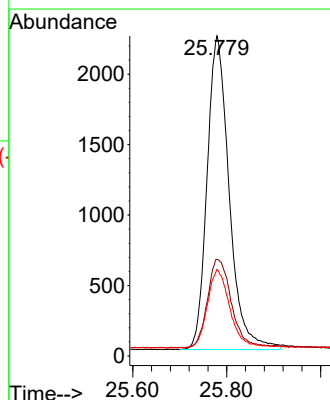
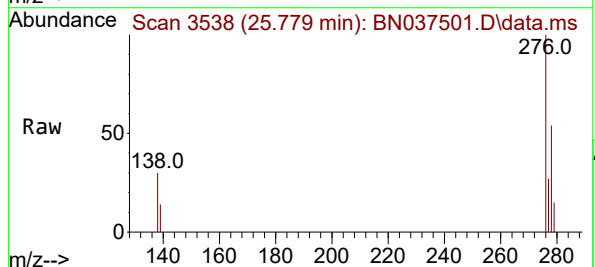
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

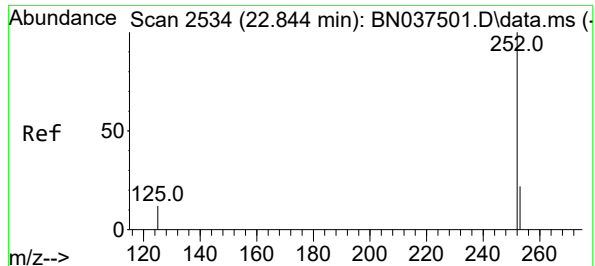
Tgt Ion:264 Resp: 4807
Ion Ratio Lower Upper
264 100
260 26.5 21.2 31.8
265 50.5 40.4 60.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.779 min Scan# 3538
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion:276 Resp: 7280
Ion Ratio Lower Upper
276 100
138 30.0 24.0 36.0
277 25.6 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.383 ng

RT: 22.844 min Scan# 2534

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

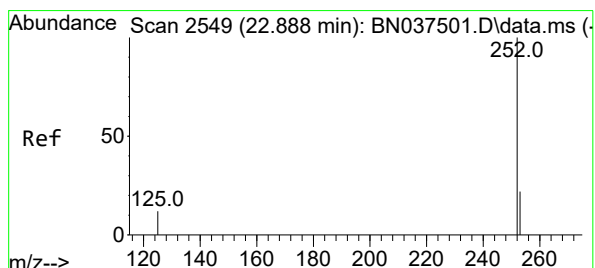
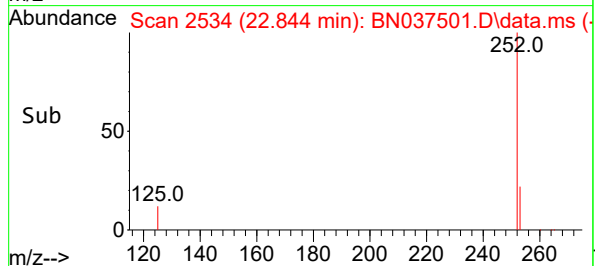
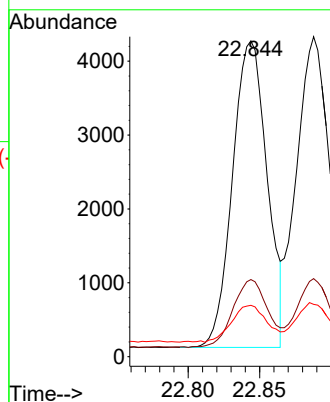
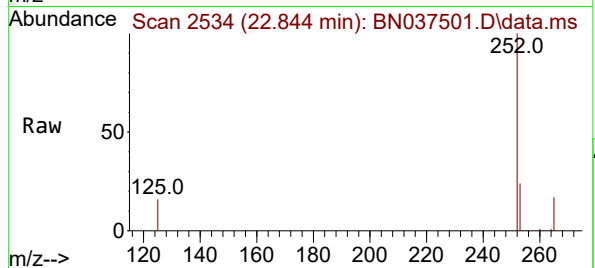
Tgt Ion:252 Resp: 6988

Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 16.3 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 22.888 min Scan# 2549

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

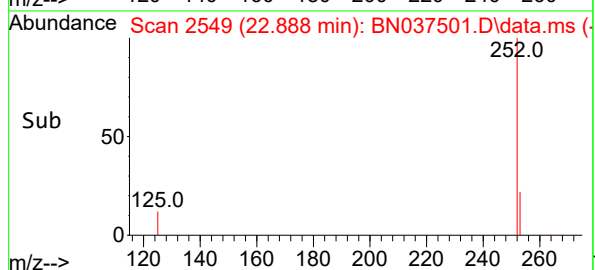
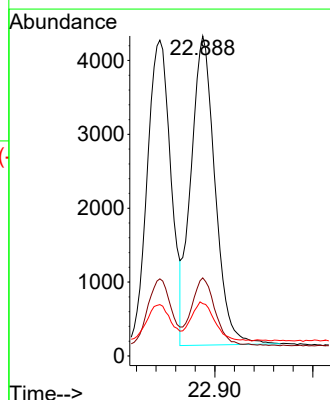
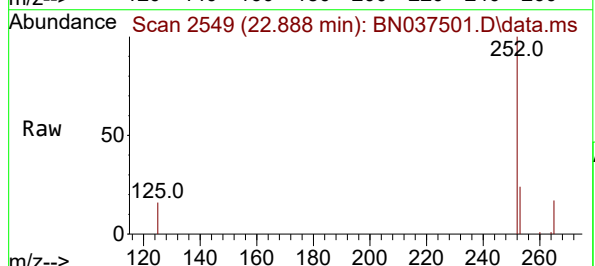
Tgt Ion:252 Resp: 7143

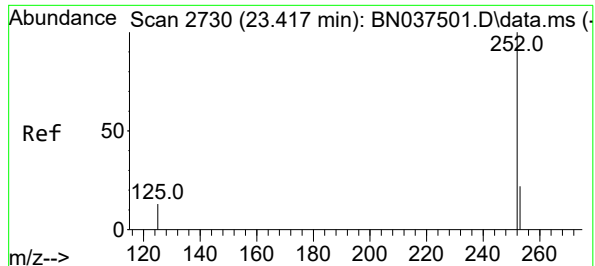
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 16.4 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.376 ng

RT: 23.417 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

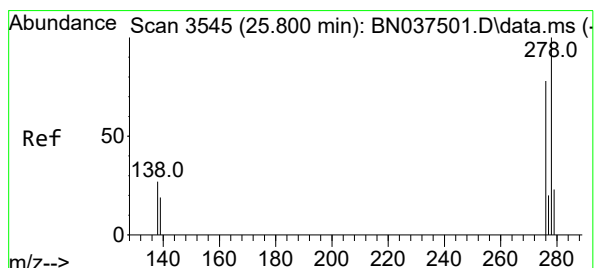
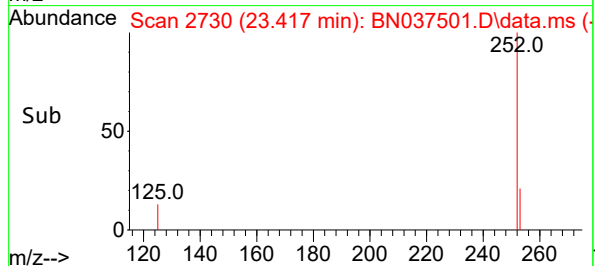
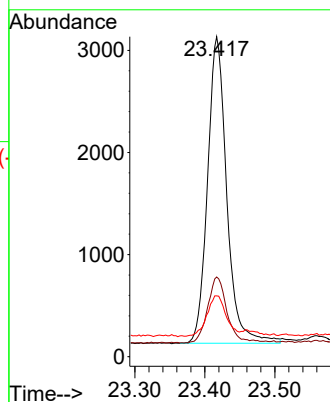
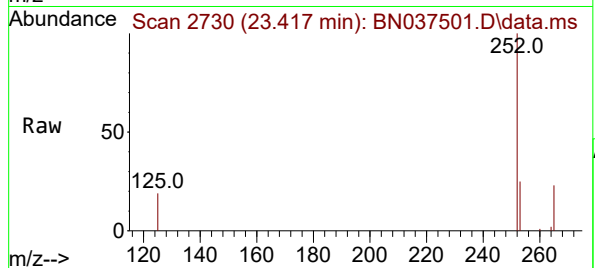
Tgt Ion:252 Resp: 5731

Ion Ratio Lower Upper

252 100

253 24.9 19.9 29.9

125 19.0 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.360 ng

RT: 25.800 min Scan# 3545

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

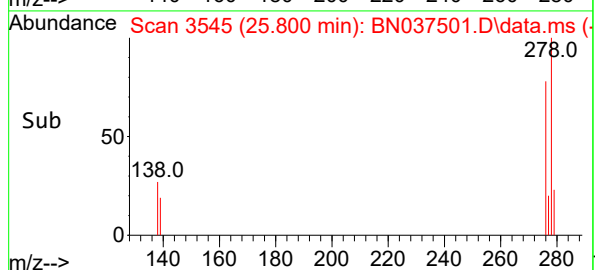
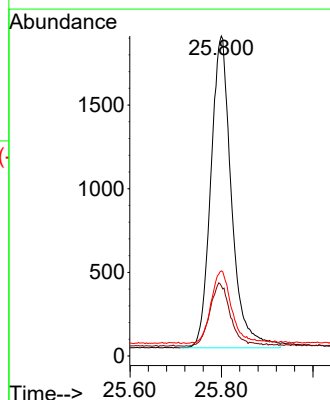
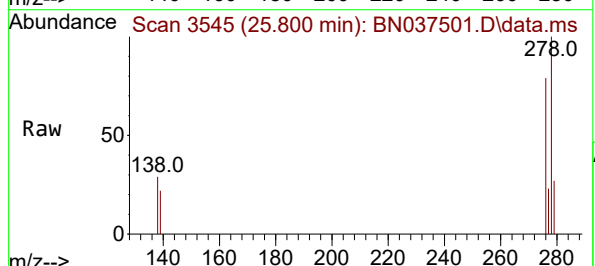
Tgt Ion:278 Resp: 5845

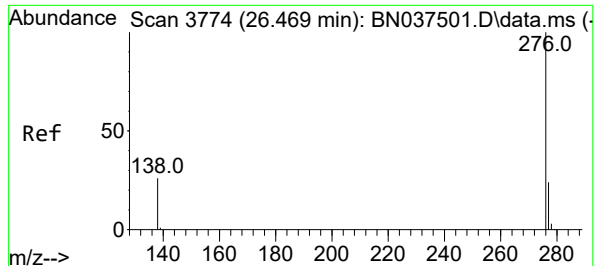
Ion Ratio Lower Upper

278 100

139 21.9 17.5 26.3

279 26.6 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.375 ng

RT: 26.469 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037501.D

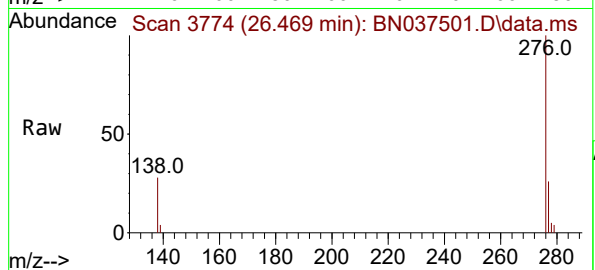
Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



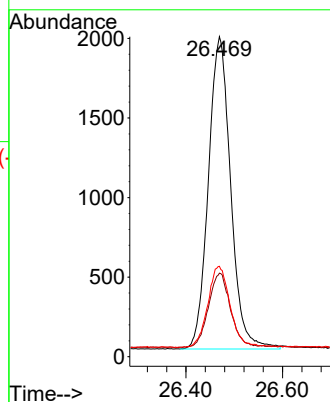
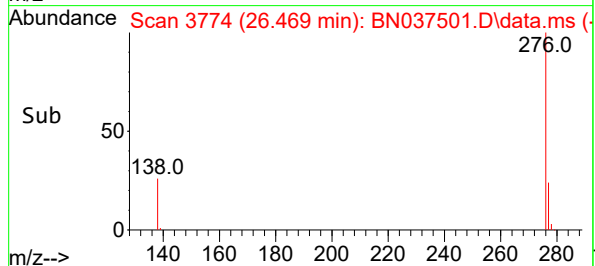
Tgt Ion:276 Resp: 6293

Ion Ratio Lower Upper

276 100

277 26.1 20.9 31.3

138 28.2 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037502.D
 Acq On : 15 Jul 2025 14:25
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jul 15 17:27:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 16:45:15 2025
 Response via : Initial Calibration

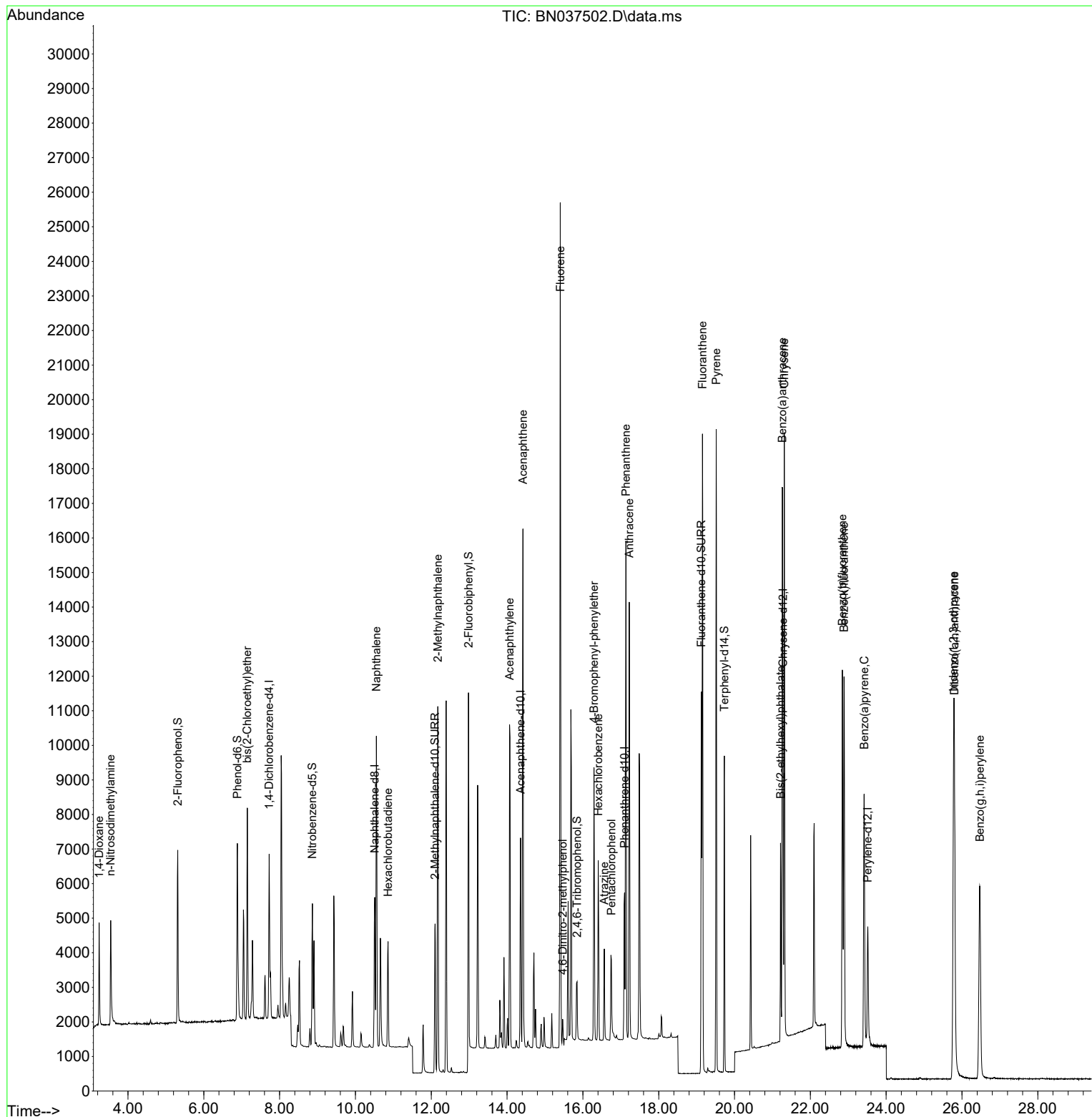
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2213	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5743	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3273	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6314	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5167	0.400	ng	0.00
35) Perylene-d12	23.516	264	4636	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	4020	0.735	ng	0.00
5) Phenol-d6	6.887	99	4891	0.713	ng	0.00
8) Nitrobenzene-d5	8.865	82	3103	0.723	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	5995	0.728	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	1155	0.718	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	13250	0.778	ng	0.00
27) Fluoranthene-d10	19.127	212	11723	0.701	ng	0.00
31) Terphenyl-d14	19.731	244	8376	0.754	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1641	0.771	ng	98
3) n-Nitrosodimethylamine	3.543	42	2056	0.768	ng	# 94
6) bis(2-Chloroethyl)ether	7.147	93	4350	0.761	ng	99
9) Naphthalene	10.552	128	11585	0.756	ng	99
10) Hexachlorobutadiene	10.861	225	2561	0.757	ng	# 100
12) 2-Methylnaphthalene	12.172	142	7636	0.758	ng	99
16) Acenaphthylene	14.067	152	11025	0.752	ng	99
17) Acenaphthene	14.420	154	7528	0.755	ng	100
18) Fluorene	15.403	166	9729	0.758	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	589	0.750	ng	# 78
21) 4-Bromophenyl-phenylether	16.292	248	3053	0.755	ng	96
22) Hexachlorobenzene	16.404	284	4049	0.775	ng	100
23) Atrazine	16.565	200	1994	0.706	ng	97
24) Pentachlorophenol	16.751	266	1588	0.677	ng	98
25) Phenanthrene	17.136	178	14261	0.754	ng	100
26) Anthracene	17.223	178	12919	0.748	ng	99
28) Fluoranthene	19.155	202	16043	0.735	ng	99
30) Pyrene	19.517	202	16008	0.769	ng	100
32) Benzo(a)anthracene	21.259	228	13280	0.734	ng	99
33) Chrysene	21.313	228	14034	0.745	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	5562	0.683	ng	98
36) Indeno(1,2,3-cd)pyrene	25.779	276	14458	0.749	ng	99
37) Benzo(b)fluoranthene	22.844	252	13315	0.757	ng	96
38) Benzo(k)fluoranthene	22.888	252	13634	0.751	ng	97
39) Benzo(a)pyrene	23.420	252	10903	0.743	ng	96
40) Dibenzo(a,h)anthracene	25.800	278	11648	0.745	ng	97
41) Benzo(g,h,i)perylene	26.472	276	12022	0.743	ng	97

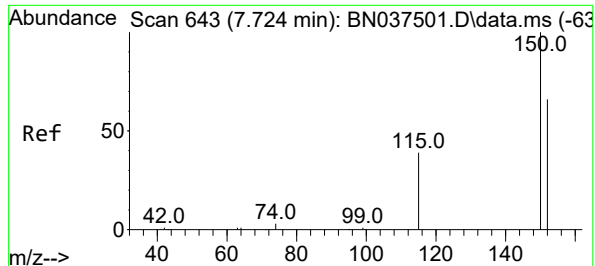
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037502.D
Acq On : 15 Jul 2025 14:25
Operator : RC/JU
Sample : SSTDIC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

Quant Time: Jul 15 17:27:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration

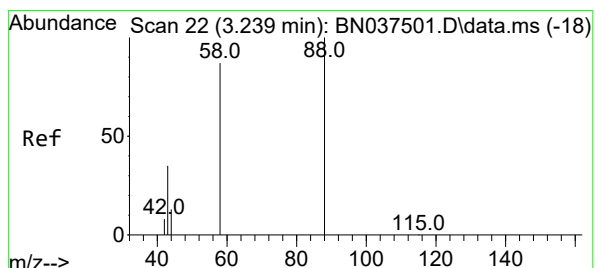
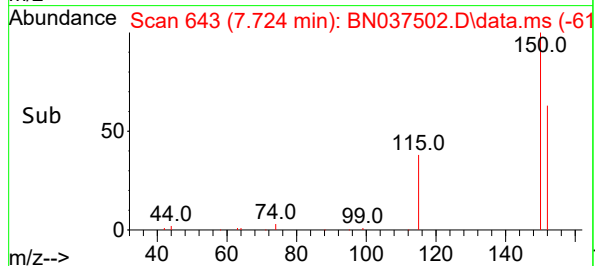
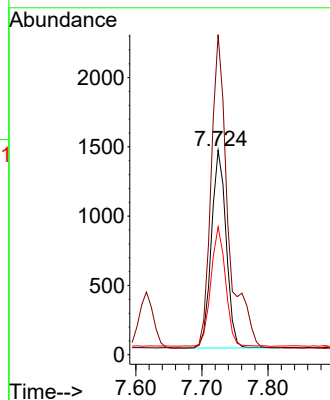
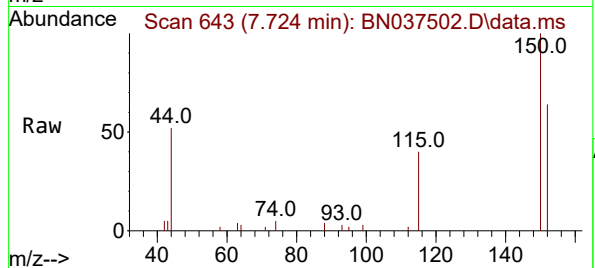




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

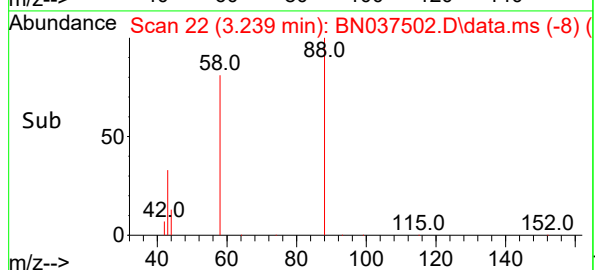
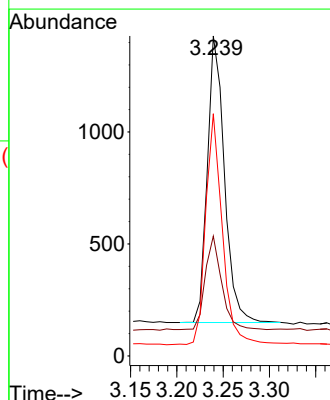
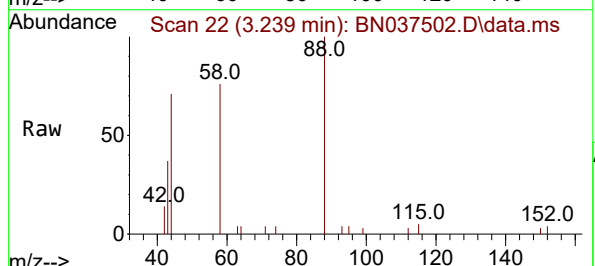
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

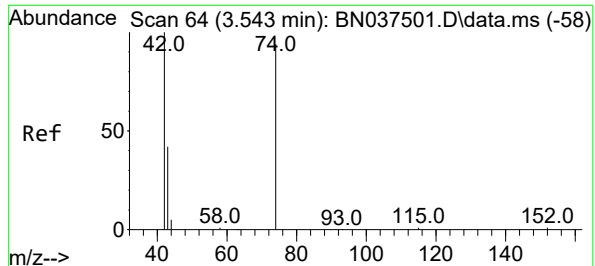
Tgt Ion:152 Resp: 2213
Ion Ratio Lower Upper
152 100
150 156.6 119.8 179.8
115 62.6 49.1 73.7



#2
1,4-Dioxane
Concen: 0.771 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion: 88 Resp: 1641
Ion Ratio Lower Upper
88 100
43 31.3 27.5 41.3
58 79.0 62.7 94.1

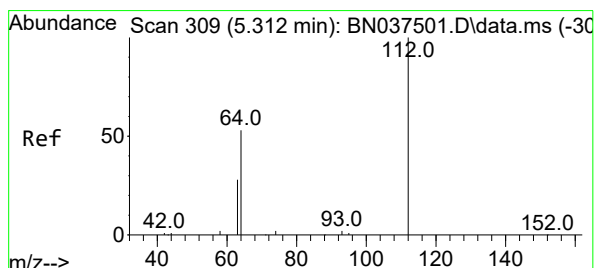
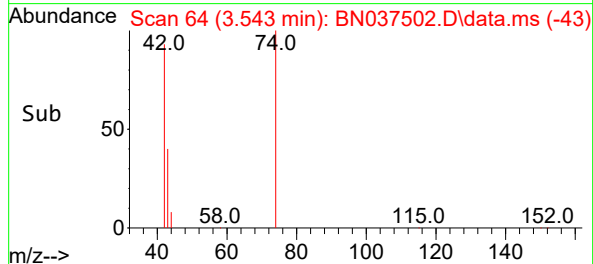
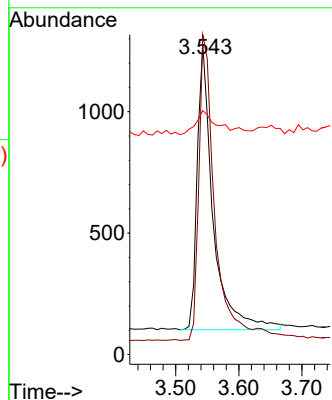
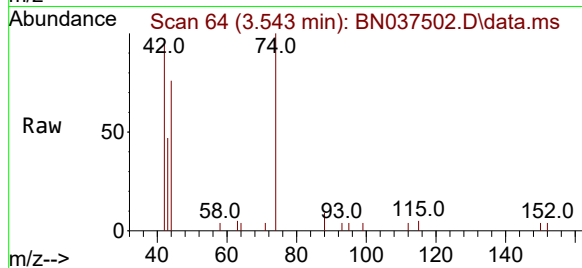




#3
n-Nitrosodimethylamine
Concen: 0.768 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

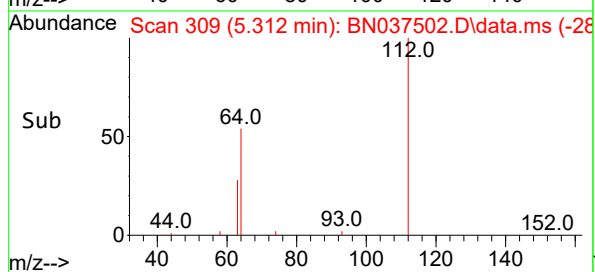
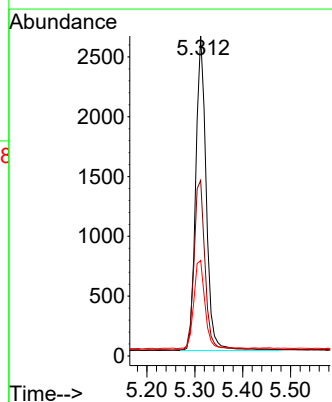
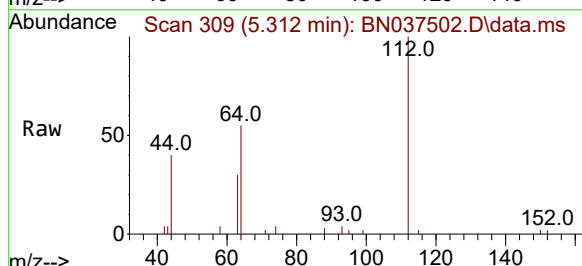
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

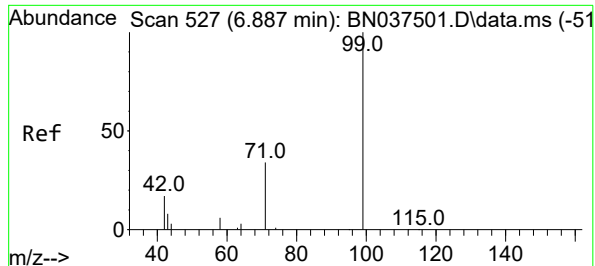
Tgt Ion: 42 Resp: 2056
Ion Ratio Lower Upper
42 100
74 110.1 91.8 137.6
44 12.3 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.735 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion: 112 Resp: 4020
Ion Ratio Lower Upper
112 100
64 57.3 45.1 67.7
63 29.7 23.8 35.8

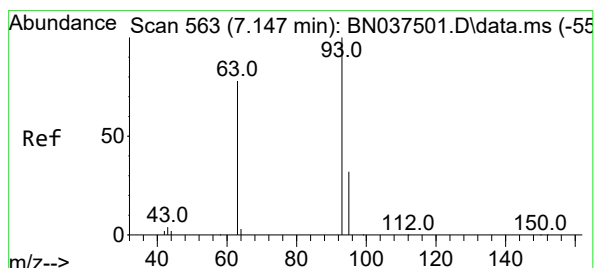
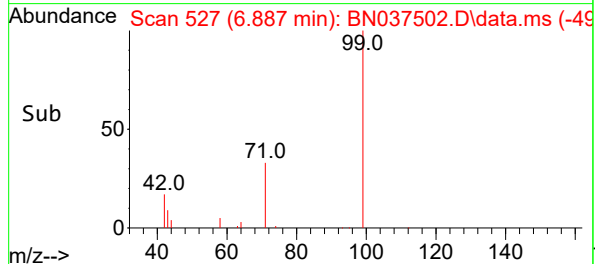
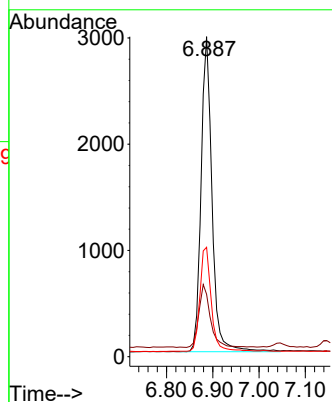
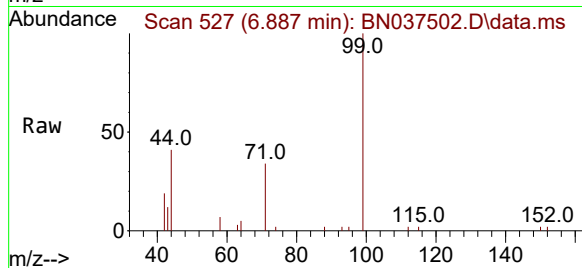




#5
Phenol-d6
Concen: 0.713 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

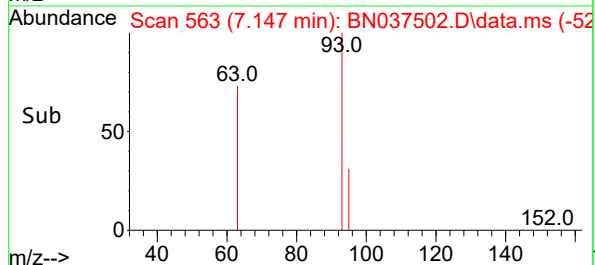
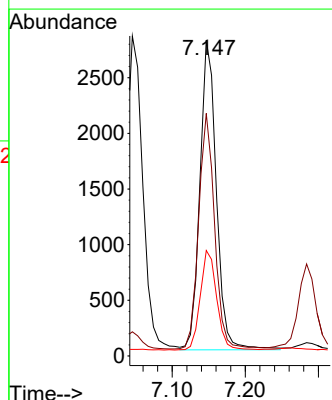
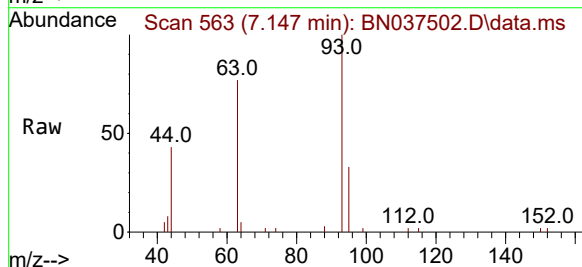
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

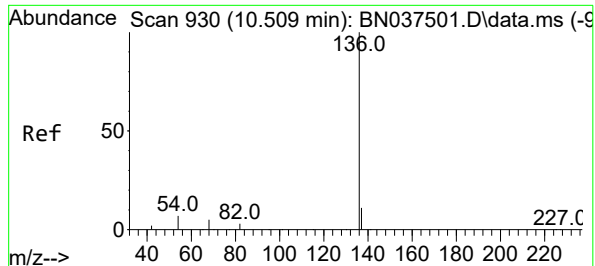
Tgt Ion:	99	Resp:	4891
Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.1	25.7
71	34.1	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.761 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion:	93	Resp:	4350
Ion	Ratio	Lower	Upper
93	100		
63	73.6	58.2	87.4
95	32.3	25.3	37.9

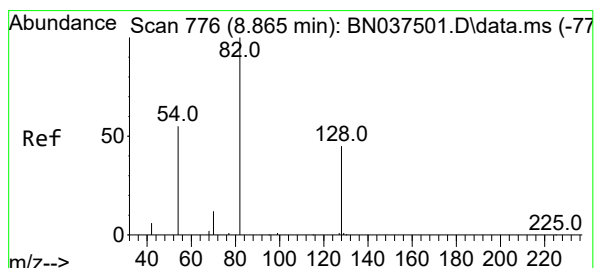
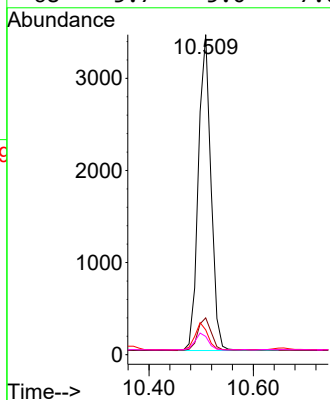
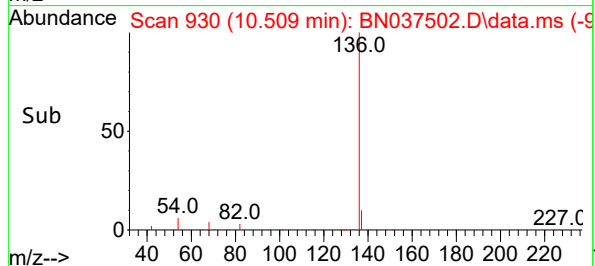
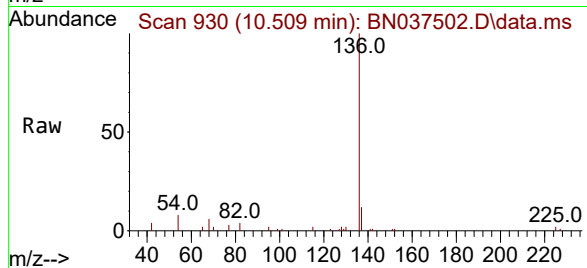




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

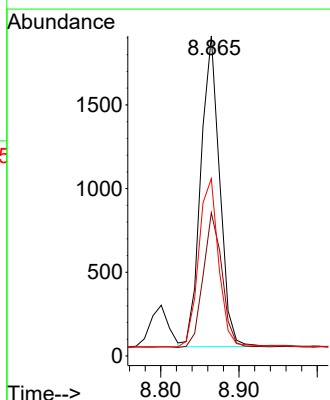
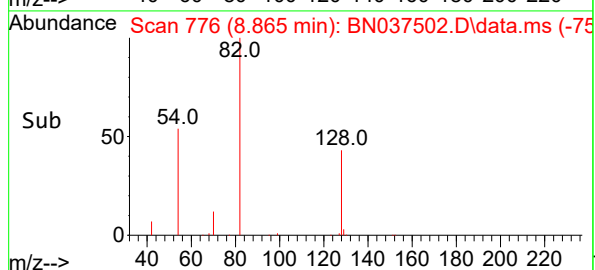
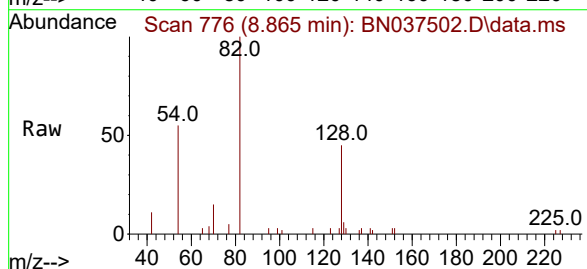
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

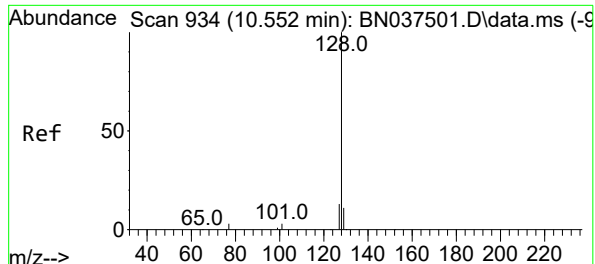
Tgt Ion:	136	Resp:	5743
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.8	14.8
54	7.7	6.6	9.8
68	5.7	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.723 ng
RT: 8.865 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion:	82	Resp:	3103
Ion	Ratio	Lower	Upper
82	100		
128	44.8	37.5	56.3
54	55.4	45.3	67.9

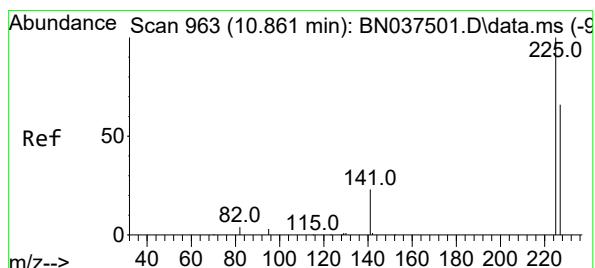
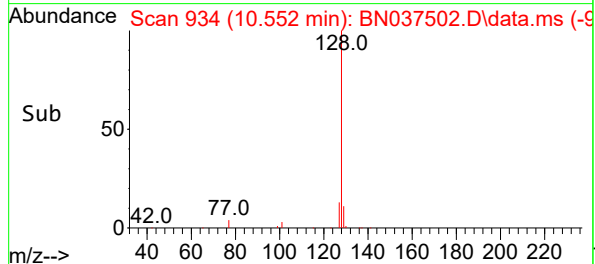
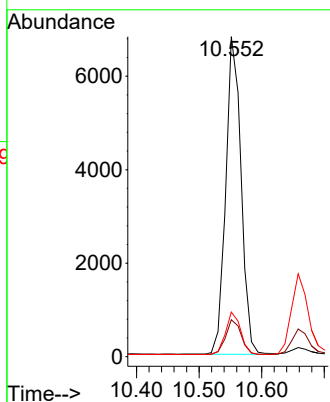
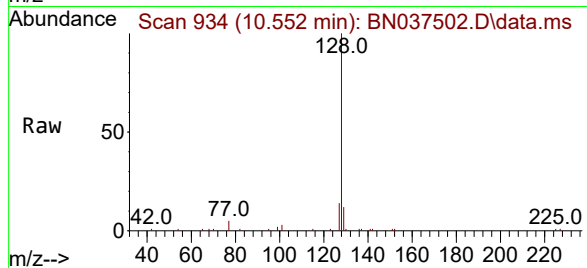




#9
Naphthalene
Concen: 0.756 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

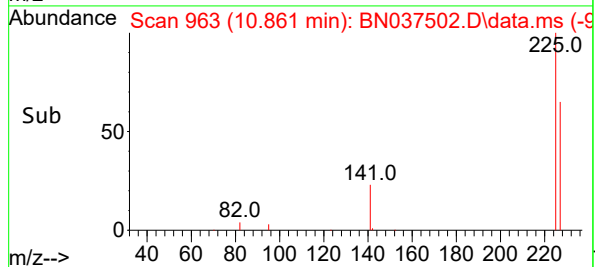
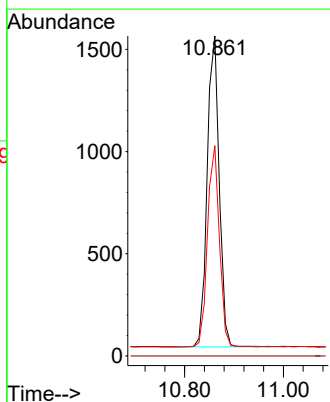
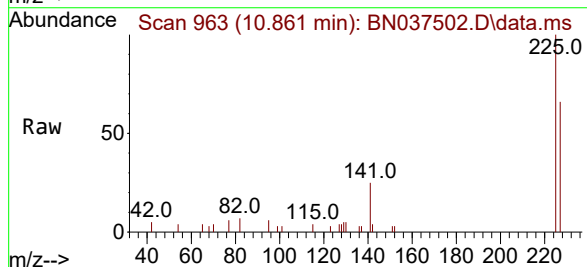
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

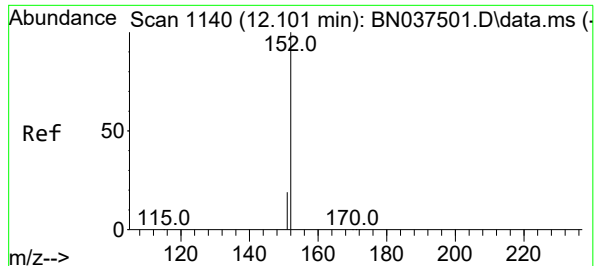
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.7	14.5
127	13.9	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.757 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.0	76.4

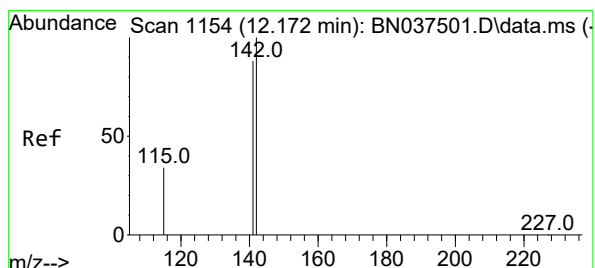
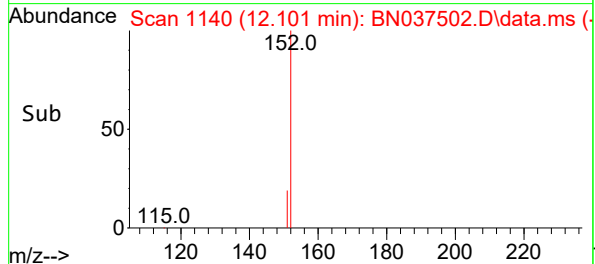
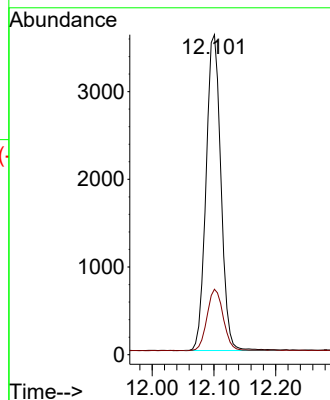
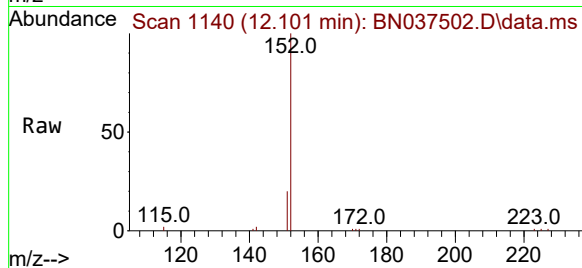




#11
2-Methylnaphthalene-d10
Concen: 0.728 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

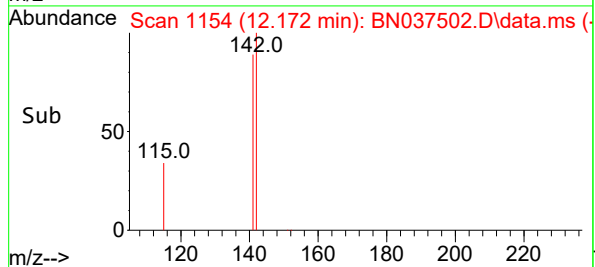
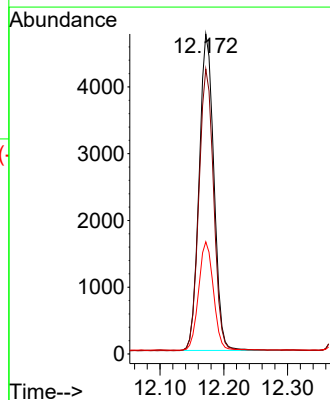
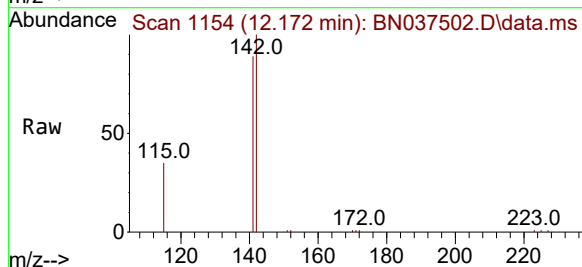
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

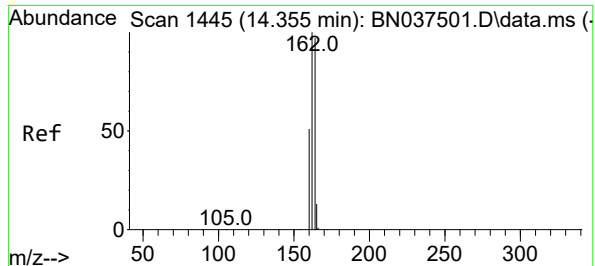
Tgt Ion:152 Resp: 5995
Ion Ratio Lower Upper
152 100
151 21.3 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.758 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion:142 Resp: 7636
Ion Ratio Lower Upper
142 100
141 89.0 71.0 106.4
115 35.1 29.0 43.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.355 min Scan# 1445

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

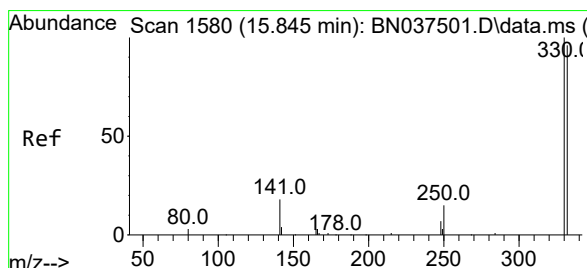
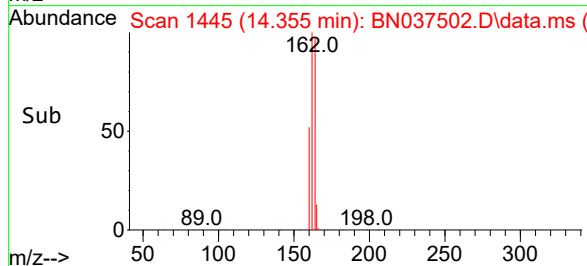
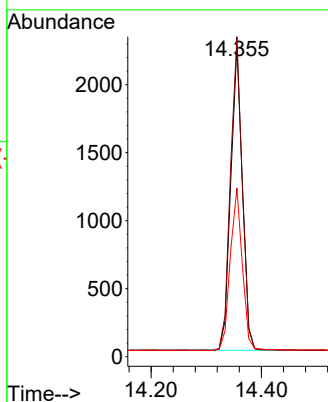
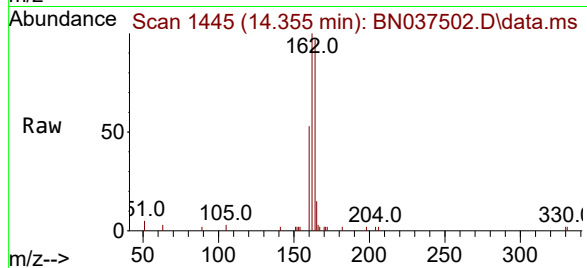
Tgt Ion:164 Resp: 3273

Ion Ratio Lower Upper

164 100

162 102.8 82.0 123.0

160 54.2 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 0.718 ng

RT: 15.845 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

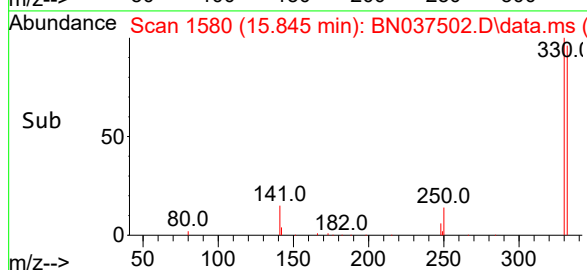
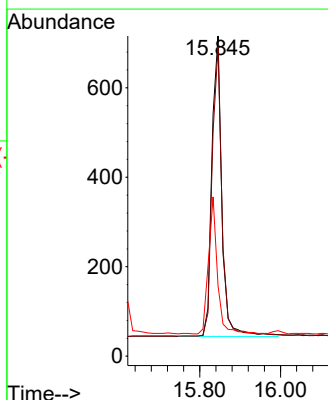
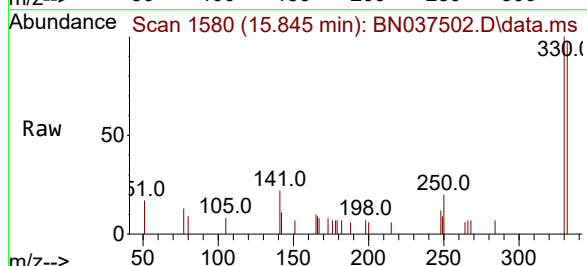
Tgt Ion:330 Resp: 1155

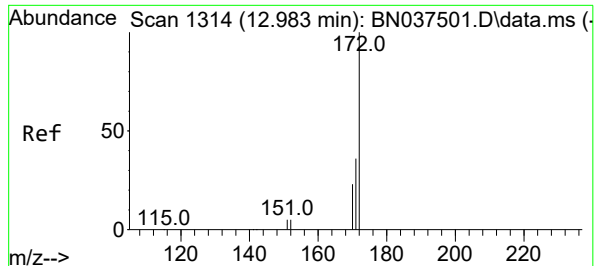
Ion Ratio Lower Upper

330 100

332 94.4 76.1 114.1

141 40.8 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.778 ng

RT: 12.983 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

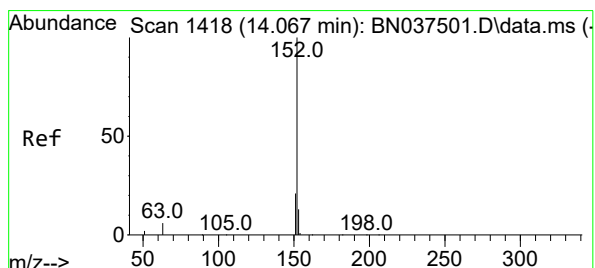
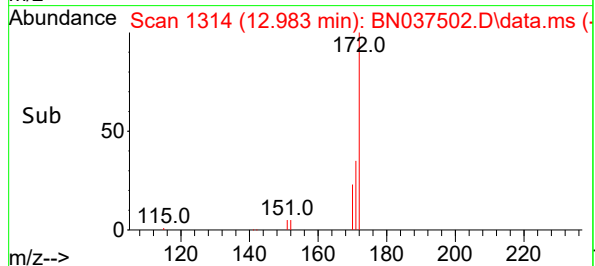
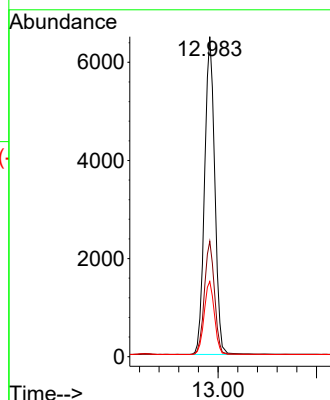
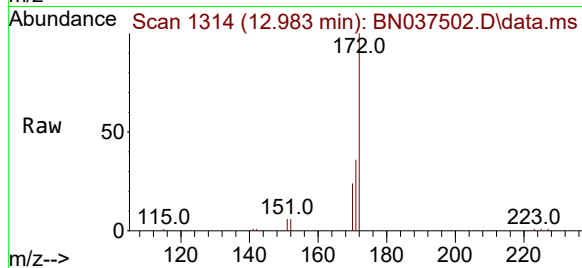
Tgt Ion:172 Resp: 13250

Ion Ratio Lower Upper

172 100

171 36.1 29.4 44.2

170 23.5 19.4 29.0



#16

Acenaphthylene

Concen: 0.752 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

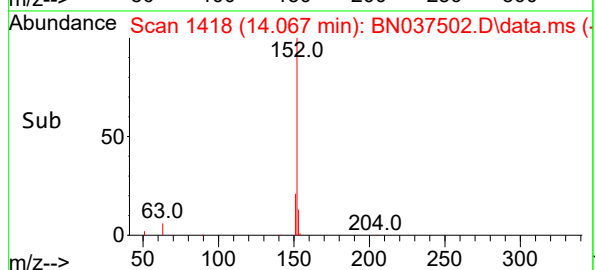
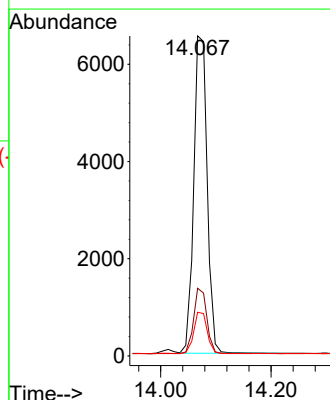
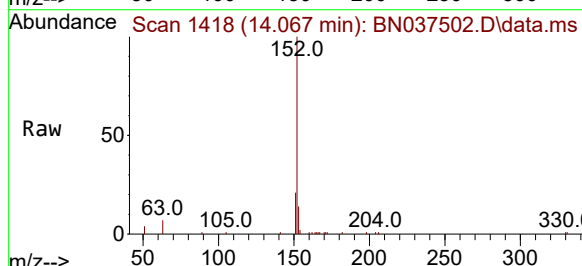
Tgt Ion:152 Resp: 11025

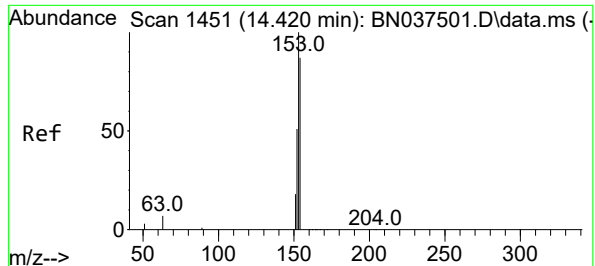
Ion Ratio Lower Upper

152 100

151 20.3 15.9 23.9

153 12.9 10.7 16.1

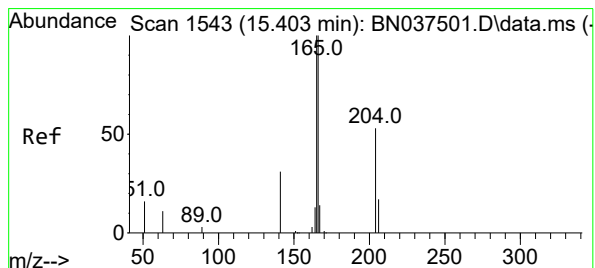
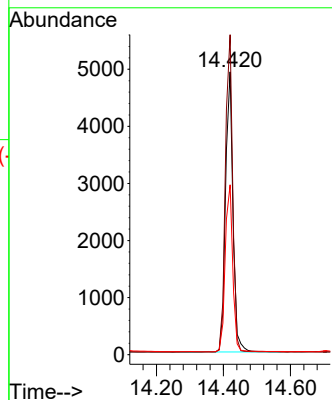
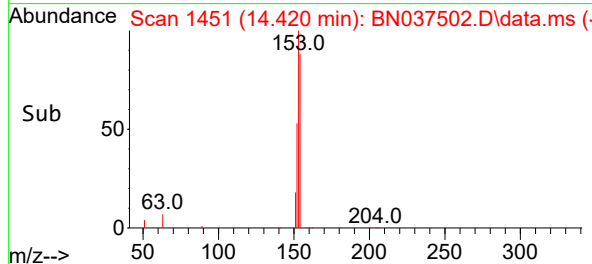
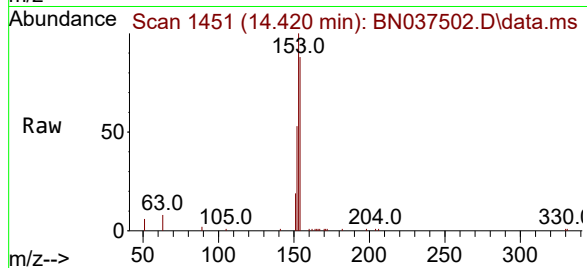




#17
Acenaphthene
Concen: 0.755 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

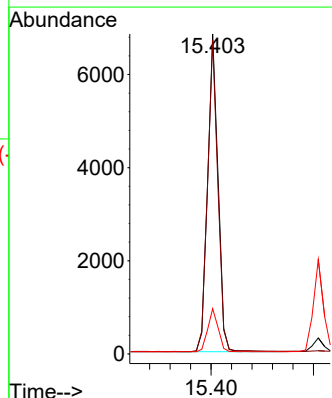
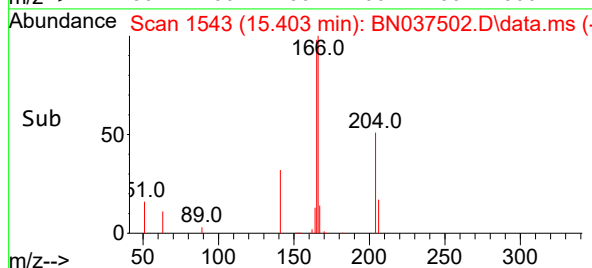
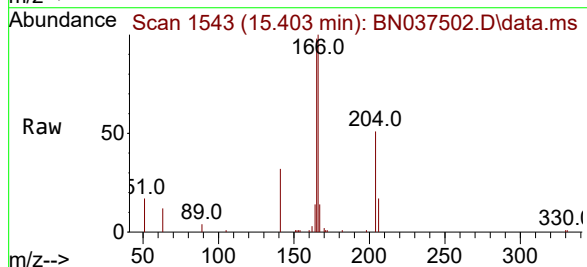
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

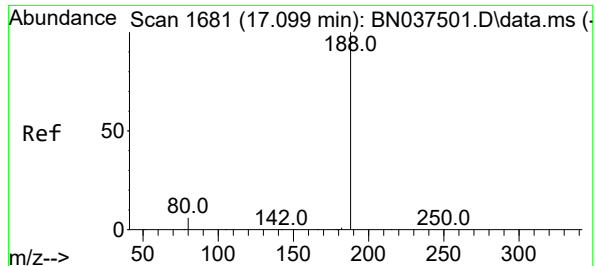
Tgt Ion:154 Resp: 7528
Ion Ratio Lower Upper
154 100
153 111.1 89.2 133.8
152 60.2 48.0 72.0



#18
Fluorene
Concen: 0.758 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion:166 Resp: 9729
Ion Ratio Lower Upper
166 100
165 98.6 78.1 117.1
167 13.3 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

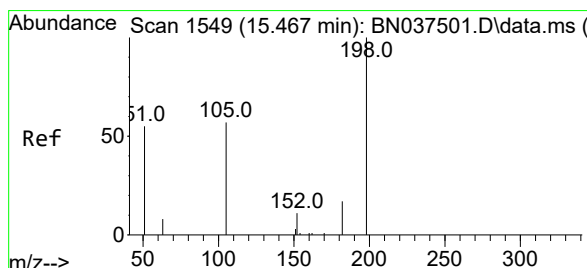
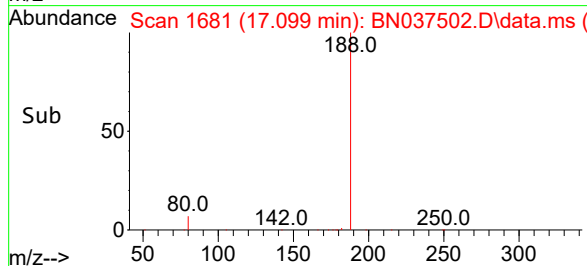
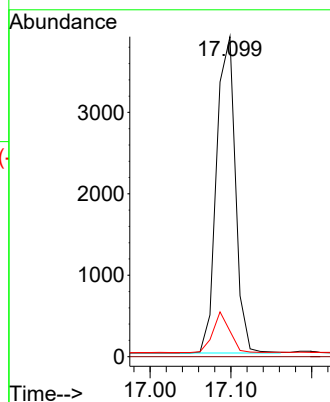
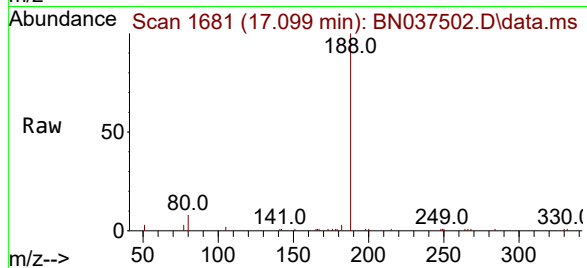
Tgt Ion:188 Resp: 6314

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.750 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

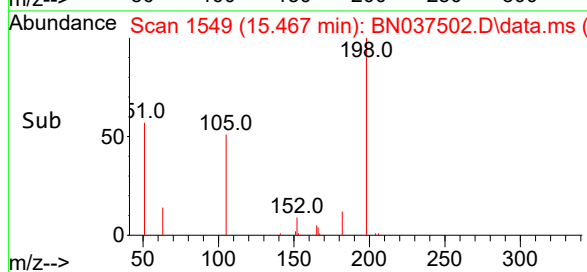
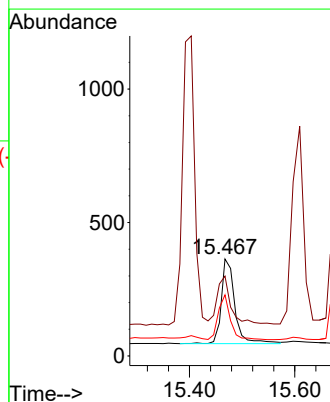
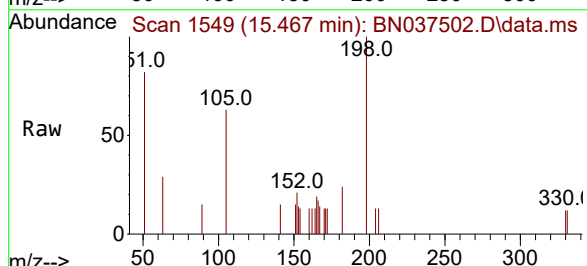
Tgt Ion:198 Resp: 589

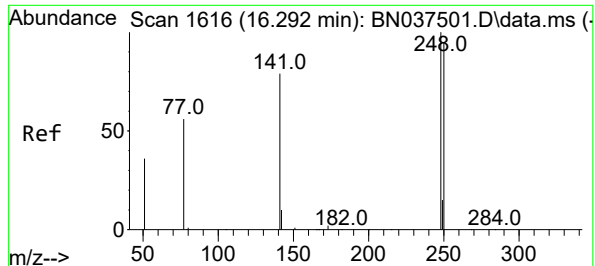
Ion Ratio Lower Upper

198 100

51 82.4 88.5 132.7#

105 63.1 61.2 91.8

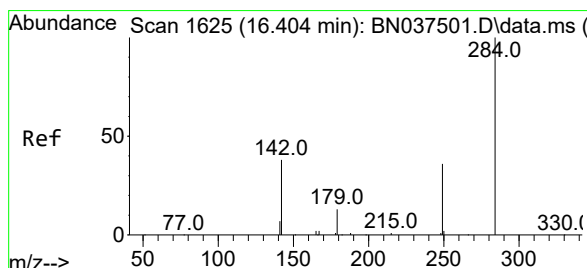
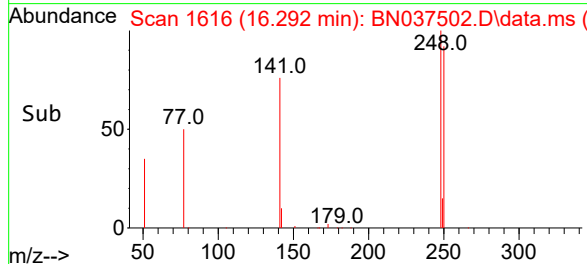
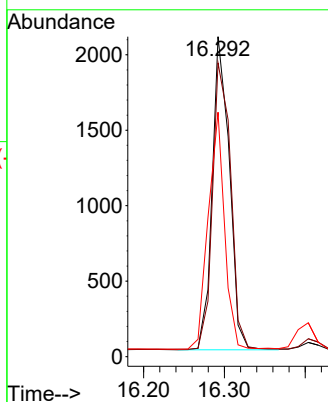
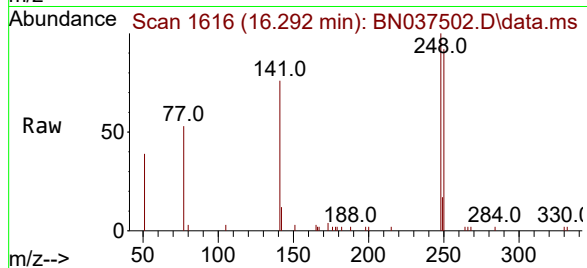




#21
4-Bromophenyl-phenylether
Concen: 0.755 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

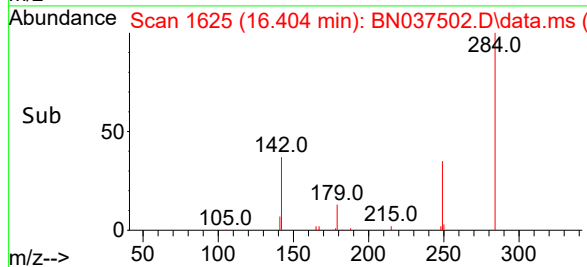
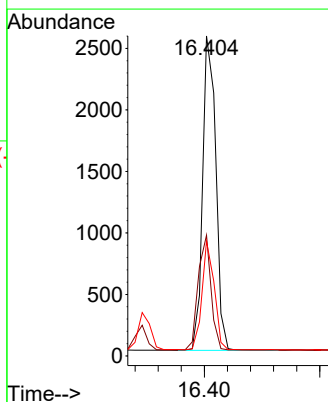
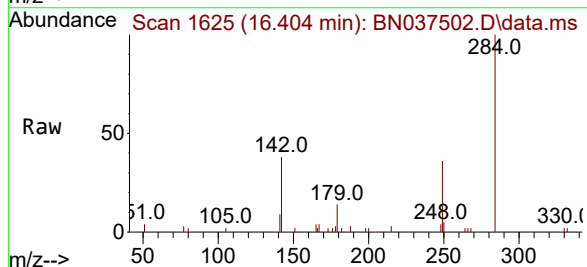
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

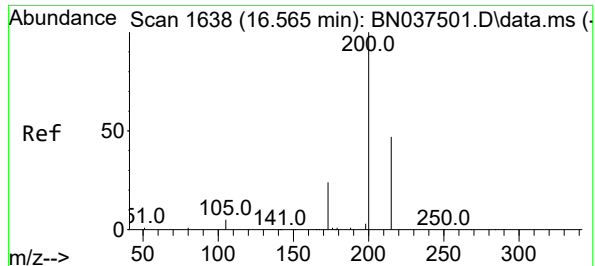
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.8	76.2	114.2
141	76.4	63.9	95.9



#22
Hexachlorobenzene
Concen: 0.775 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.7	28.9	43.3
249	32.1	25.8	38.6

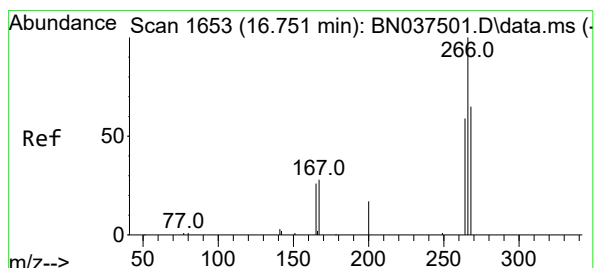
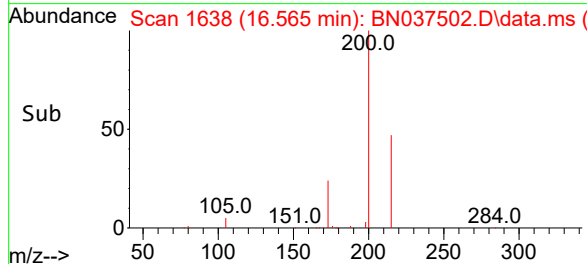
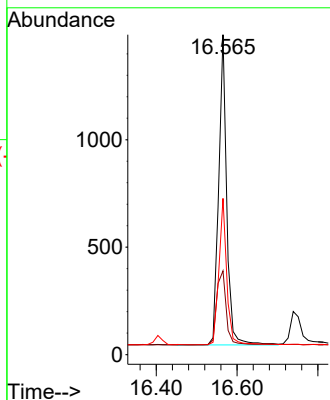
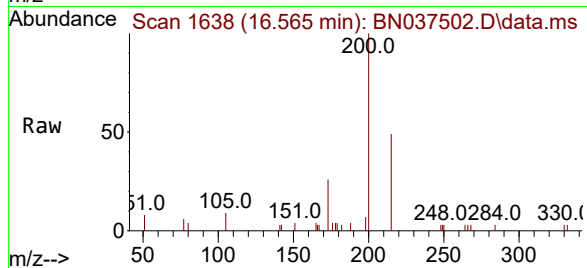




#23
Atrazine
Concen: 0.706 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

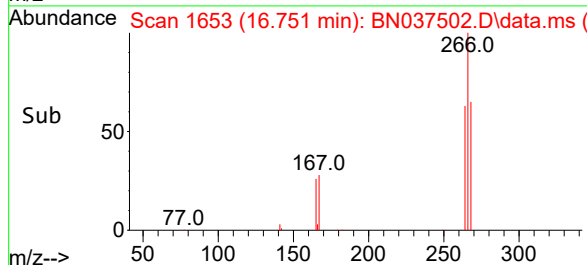
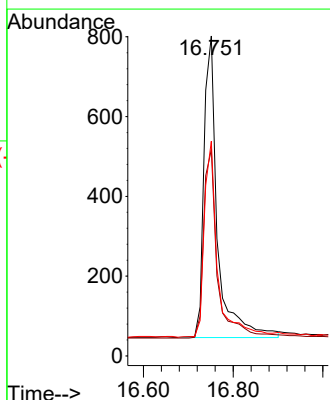
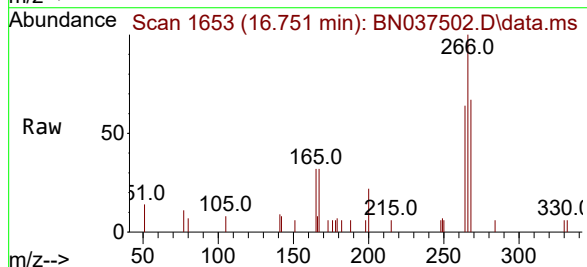
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

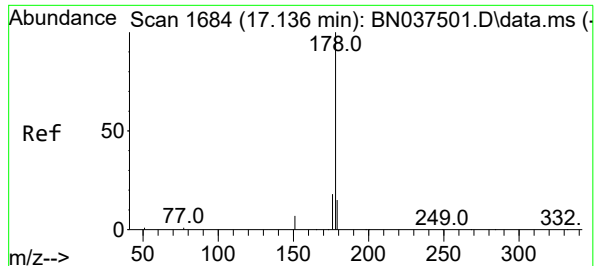
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.2	23.2	34.8
215	48.8	40.2	60.4



#24
Pentachlorophenol
Concen: 0.677 ng
RT: 16.751 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.7	49.3	73.9
268	64.0	51.6	77.4

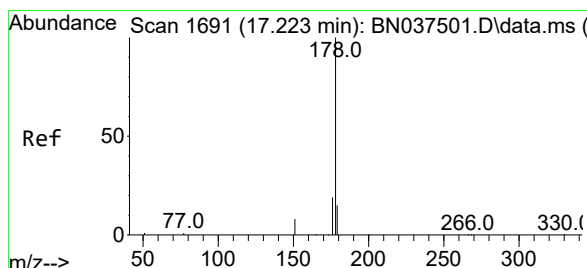
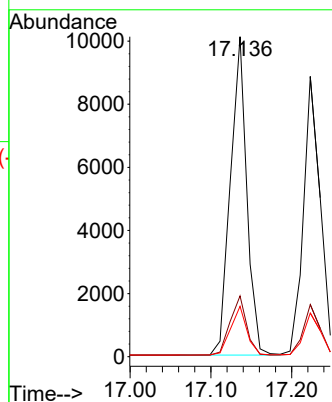
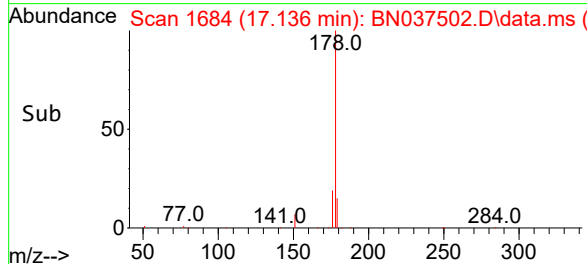
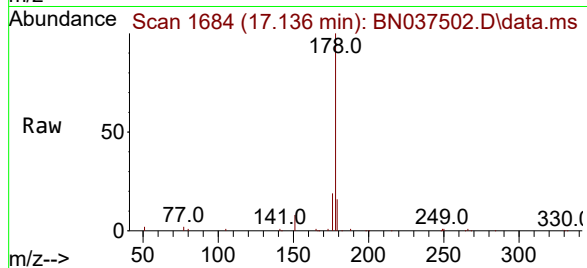




#25
Phenanthrene
Concen: 0.754 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

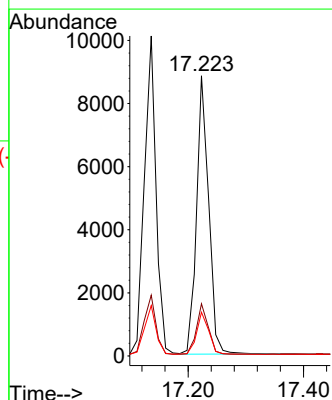
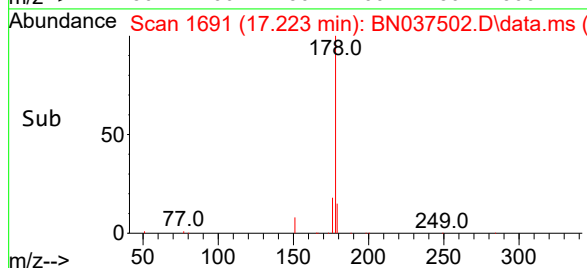
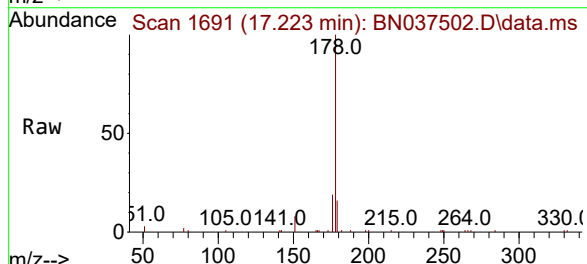
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

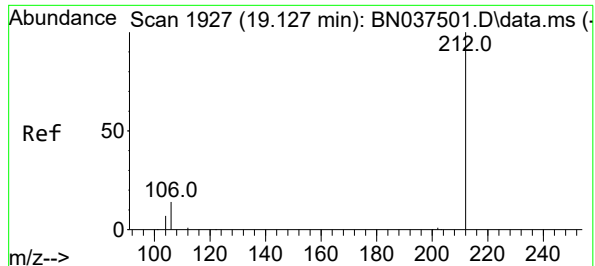
Tgt Ion:178 Resp: 14261
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.2 18.2



#26
Anthracene
Concen: 0.748 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion:178 Resp: 12919
Ion Ratio Lower Upper
178 100
176 18.0 14.7 22.1
179 15.1 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.701 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

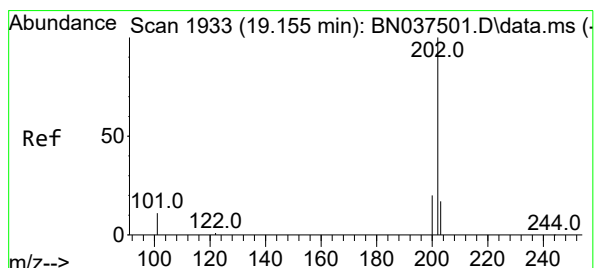
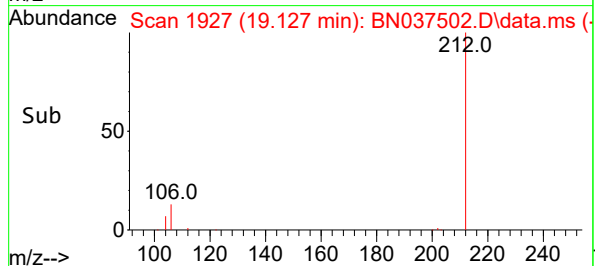
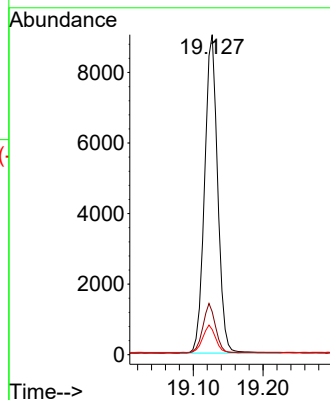
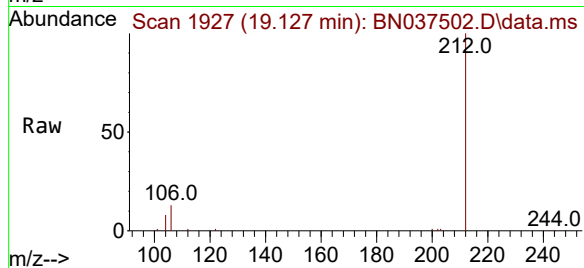
Tgt Ion:212 Resp: 11723

Ion Ratio Lower Upper

212 100

106 15.0 12.2 18.4

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 0.735 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

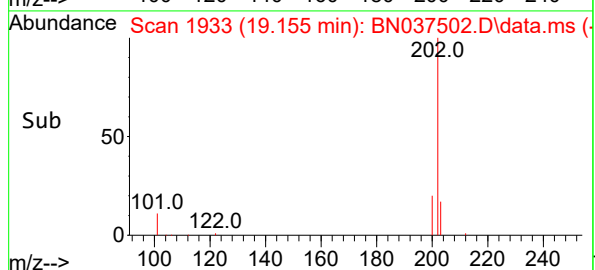
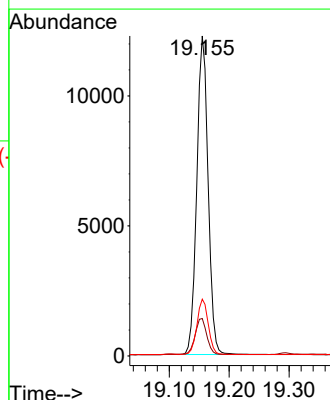
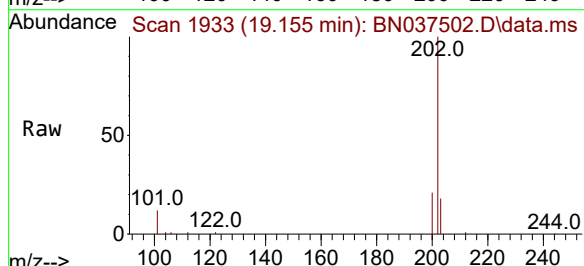
Tgt Ion:202 Resp: 16043

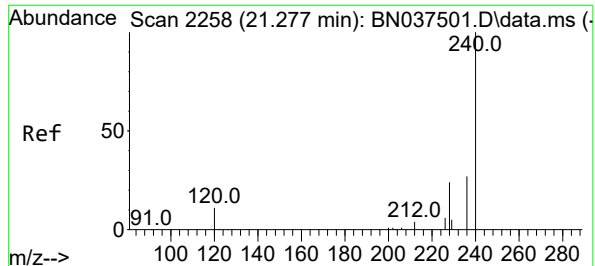
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

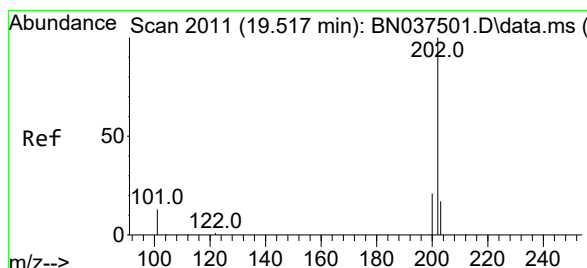
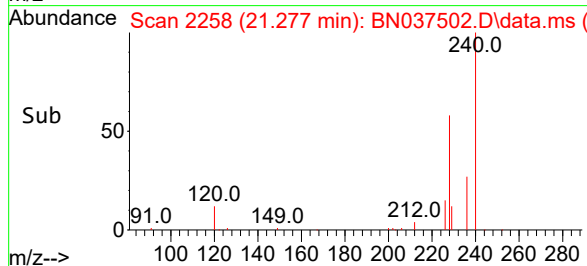
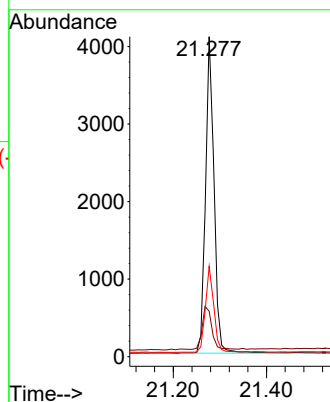
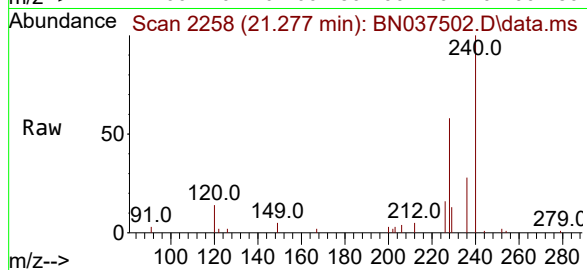
Tgt Ion:240 Resp: 5167

Ion Ratio Lower Upper

240 100

120 14.2 10.7 16.1

236 28.3 22.6 33.8



#30

Pyrene

Concen: 0.769 ng

RT: 19.517 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

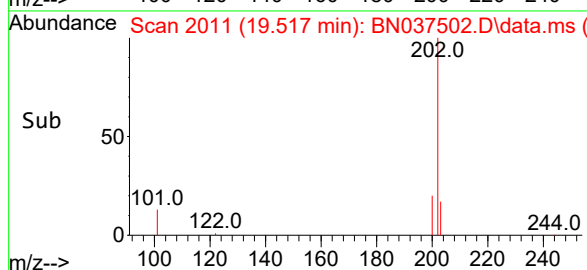
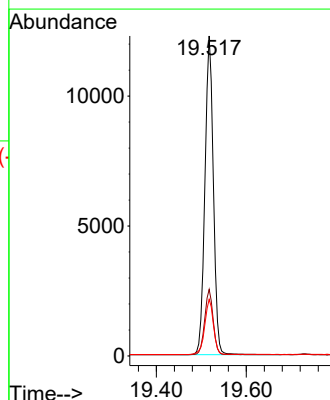
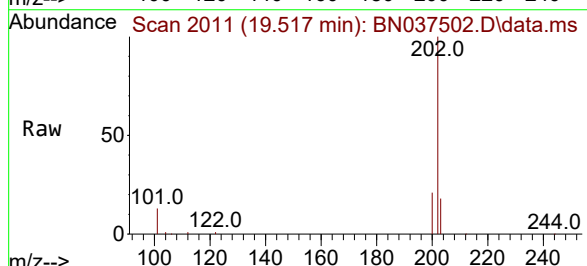
Tgt Ion:202 Resp: 16008

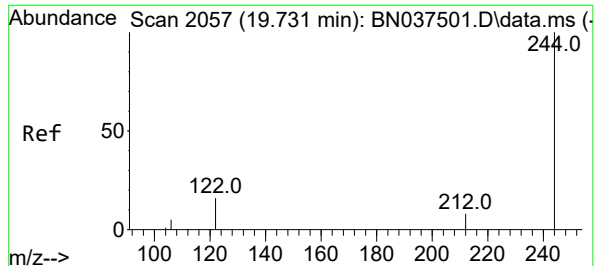
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.8 14.3 21.5

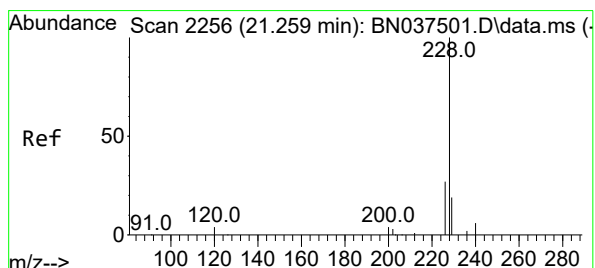
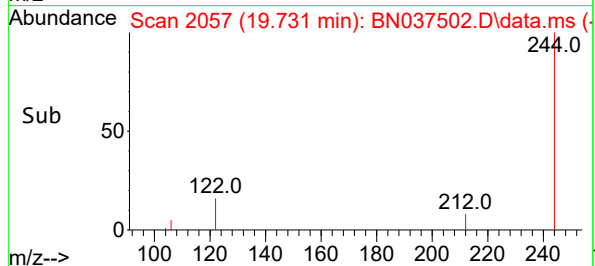
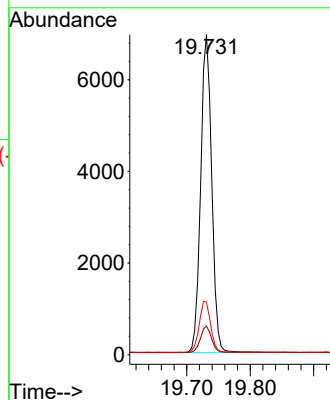
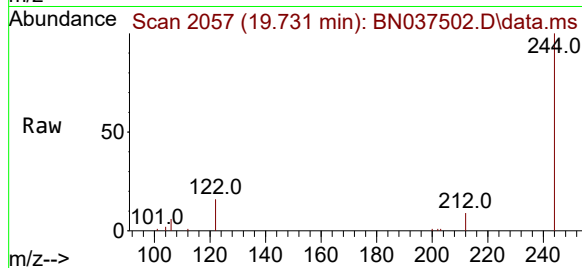




#31
Terphenyl-d14
Concen: 0.754 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

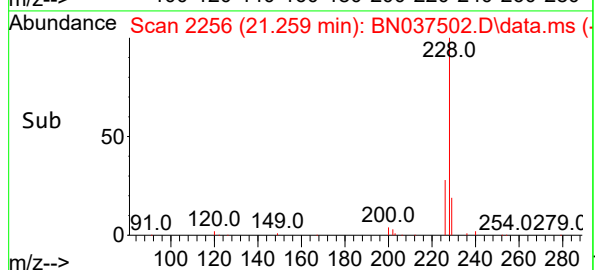
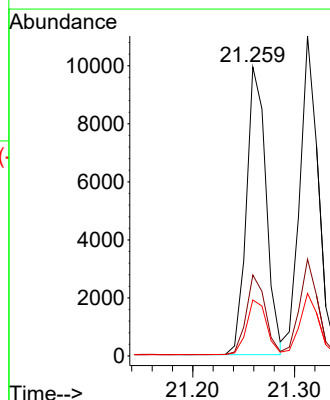
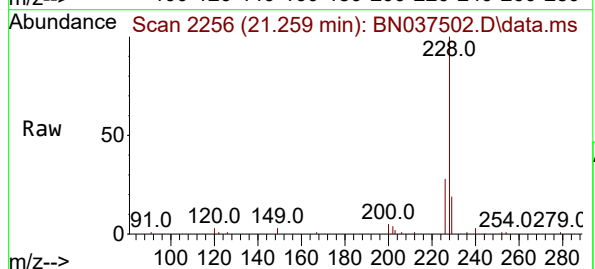
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

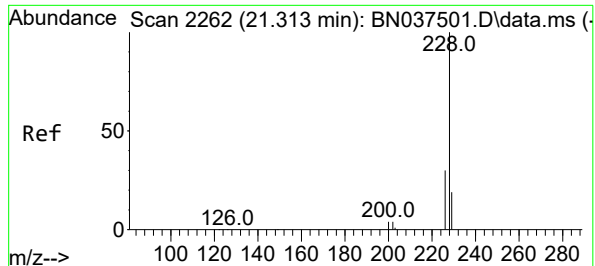
Tgt Ion:244 Resp: 8376
Ion Ratio Lower Upper
244 100
212 8.9 7.4 11.2
122 16.5 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.734 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion:228 Resp: 13280
Ion Ratio Lower Upper
228 100
226 28.0 21.9 32.9
229 19.4 15.8 23.8





#33

Chrysene

Concen: 0.745 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

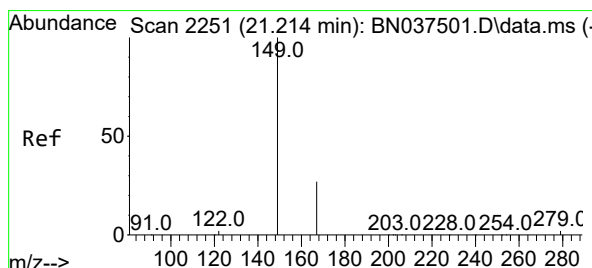
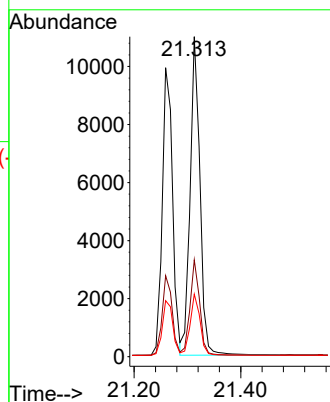
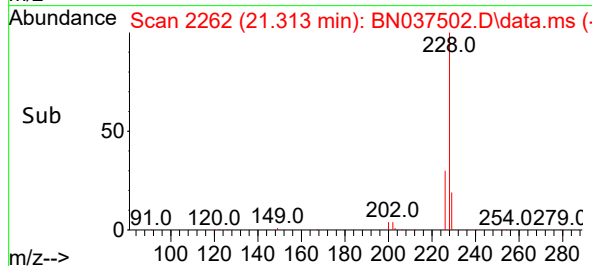
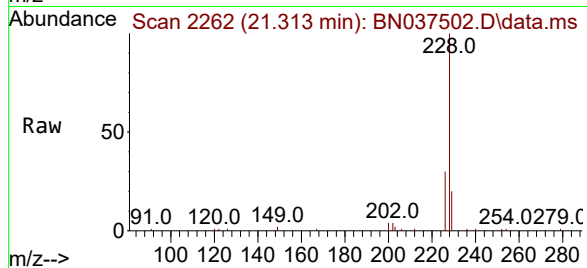
Tgt Ion:228 Resp: 14034

Ion Ratio Lower Upper

228 100

226 30.3 24.2 36.4

229 19.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.683 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

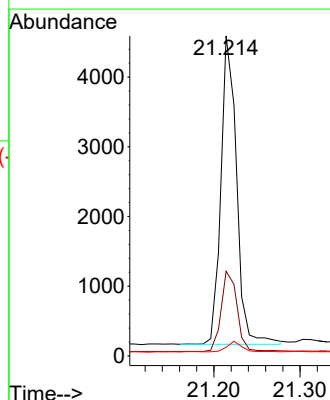
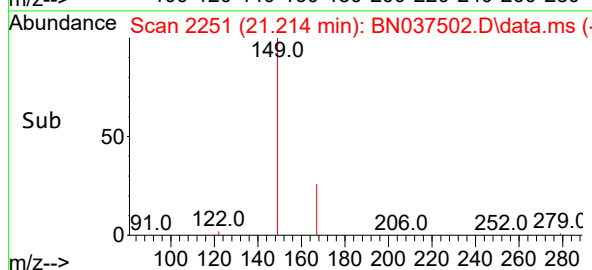
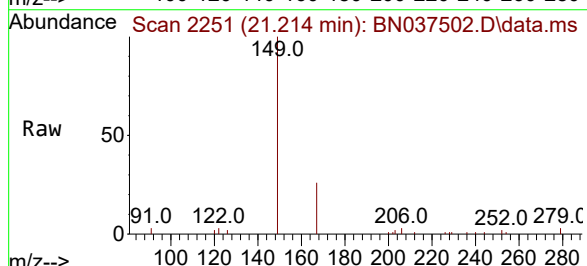
Tgt Ion:149 Resp: 5562

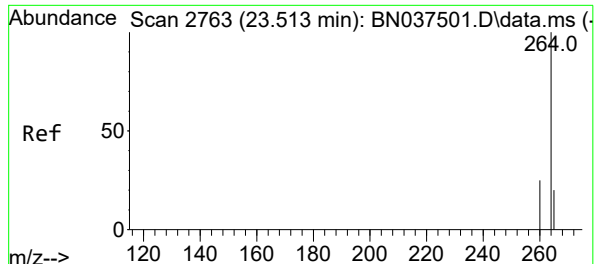
Ion Ratio Lower Upper

149 100

167 26.4 21.8 32.8

279 3.4 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037502.D

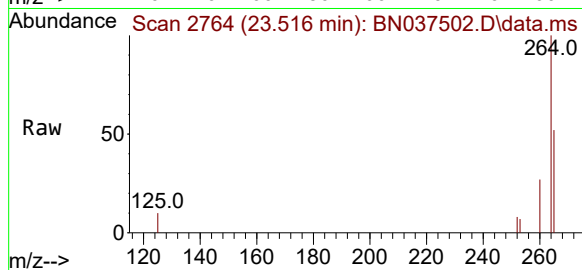
Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



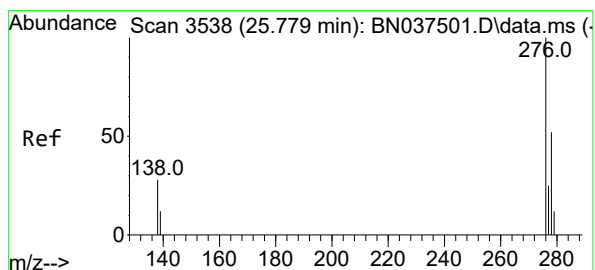
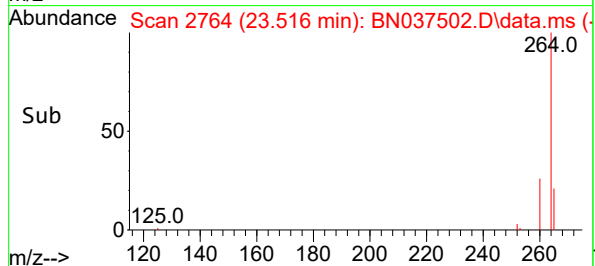
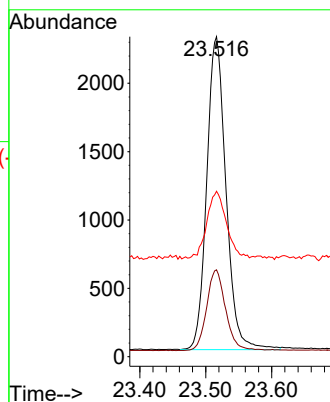
Tgt Ion:264 Resp: 4636

Ion Ratio Lower Upper

264 100

260 27.2 21.2 31.8

265 51.7 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.749 ng

RT: 25.779 min Scan# 3538

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

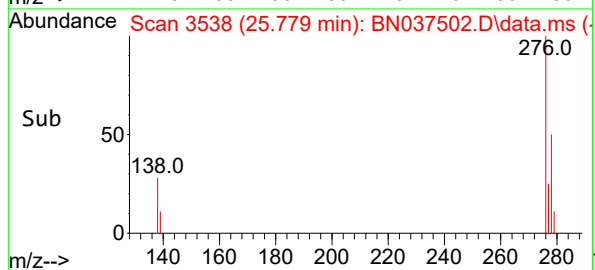
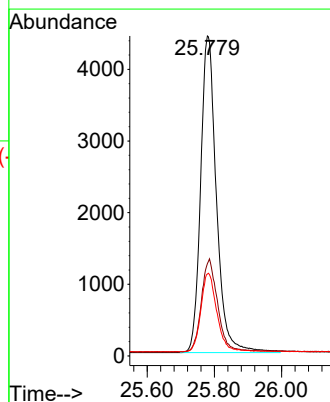
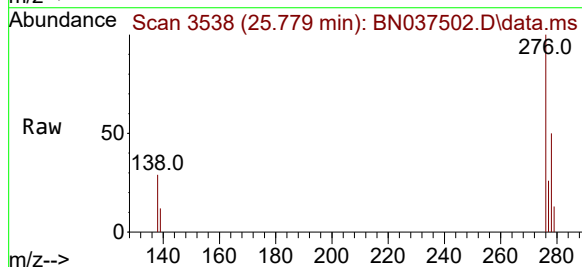
Tgt Ion:276 Resp: 14458

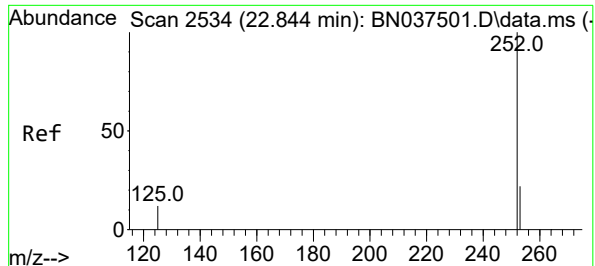
Ion Ratio Lower Upper

276 100

138 30.0 24.0 36.0

277 25.0 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.757 ng

RT: 22.844 min Scan# 2534

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

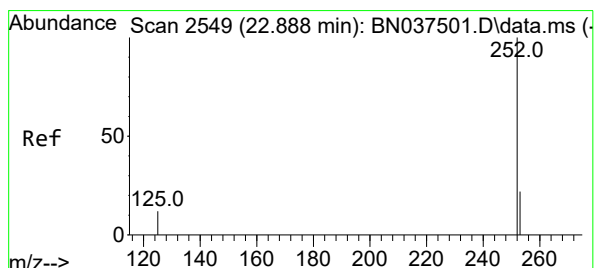
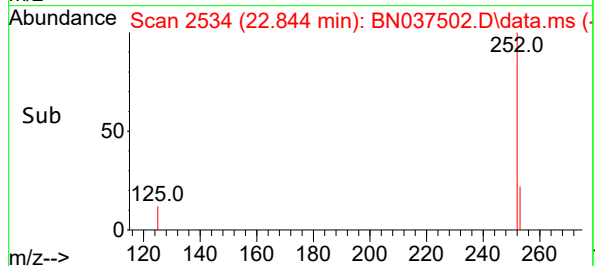
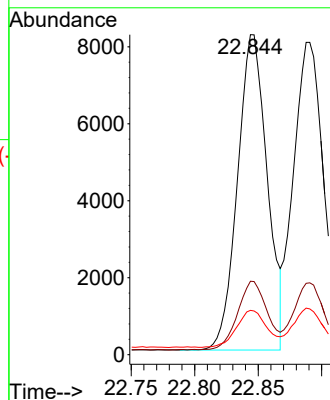
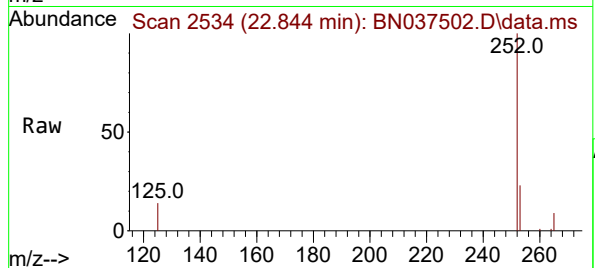
Tgt Ion:252 Resp: 13315

Ion Ratio Lower Upper

252 100

253 23.0 19.5 29.3

125 13.9 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.751 ng

RT: 22.888 min Scan# 2549

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

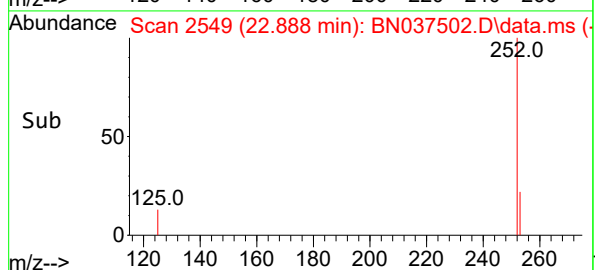
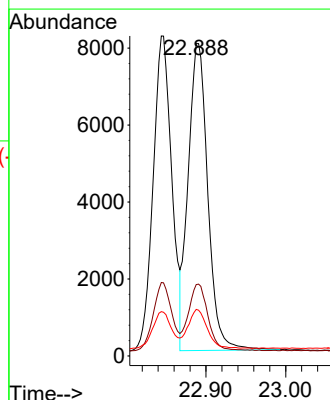
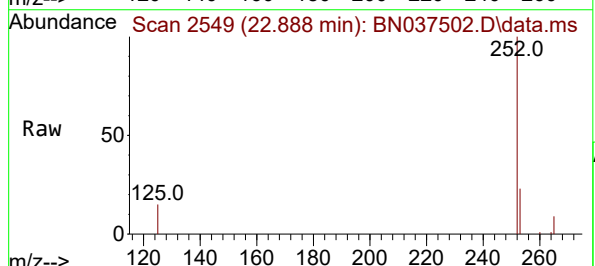
Tgt Ion:252 Resp: 13634

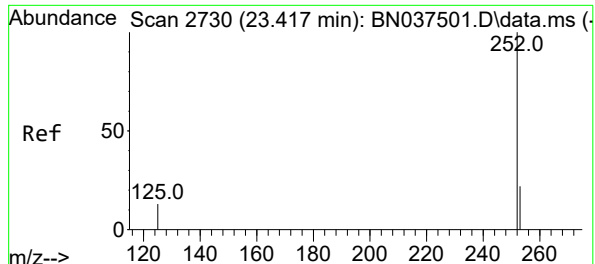
Ion Ratio Lower Upper

252 100

253 22.9 19.5 29.3

125 14.9 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.743 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

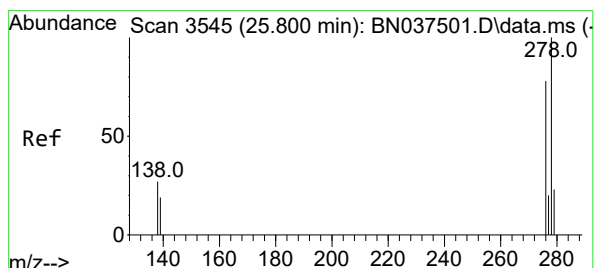
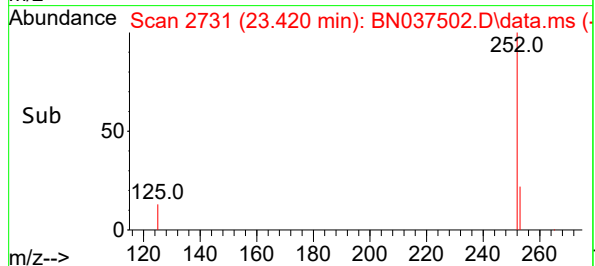
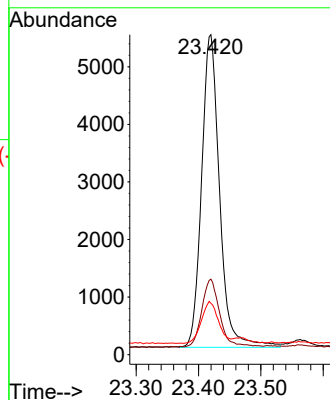
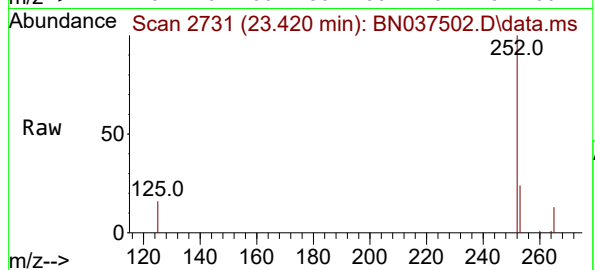
Tgt Ion:252 Resp: 10903

Ion Ratio Lower Upper

252 100

253 23.6 19.9 29.9

125 16.0 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.745 ng

RT: 25.800 min Scan# 3545

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

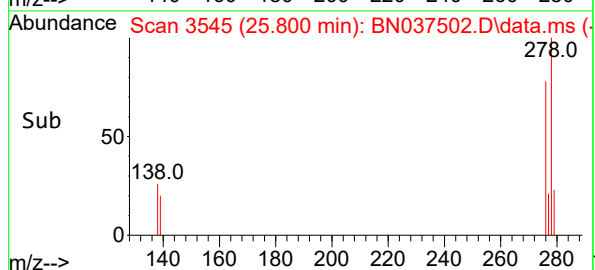
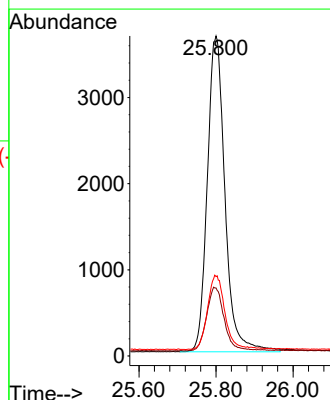
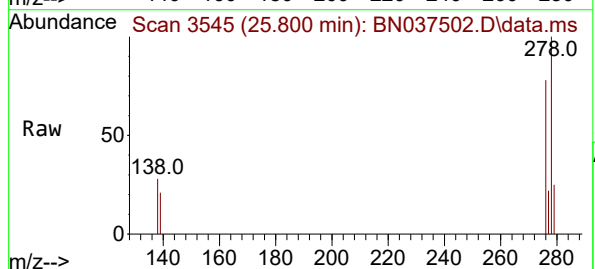
Tgt Ion:278 Resp: 11648

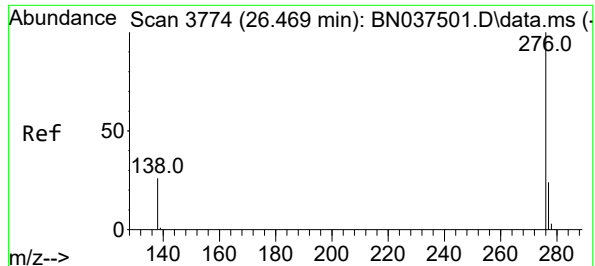
Ion Ratio Lower Upper

278 100

139 21.3 17.5 26.3

279 24.8 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.743 ng

RT: 26.472 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037502.D

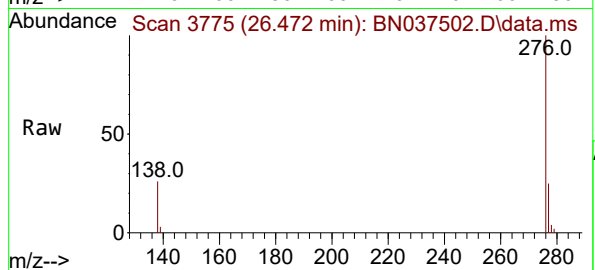
Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



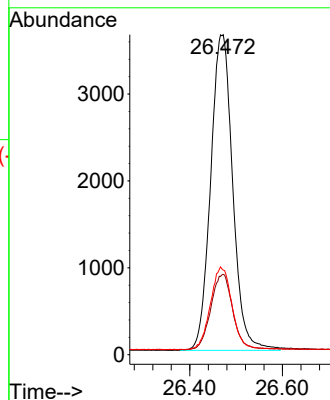
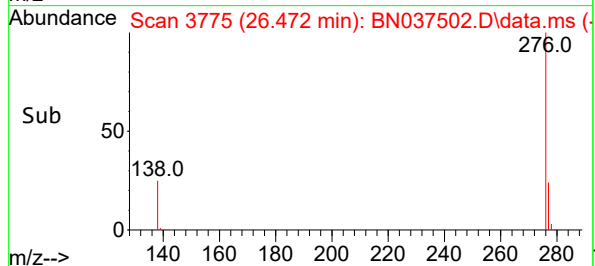
Tgt Ion:276 Resp: 12022

Ion Ratio Lower Upper

276 100

277 25.1 20.9 31.3

138 26.5 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037503.D
 Acq On : 15 Jul 2025 15:01
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jul 15 17:27:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 16:45:15 2025
 Response via : Initial Calibration

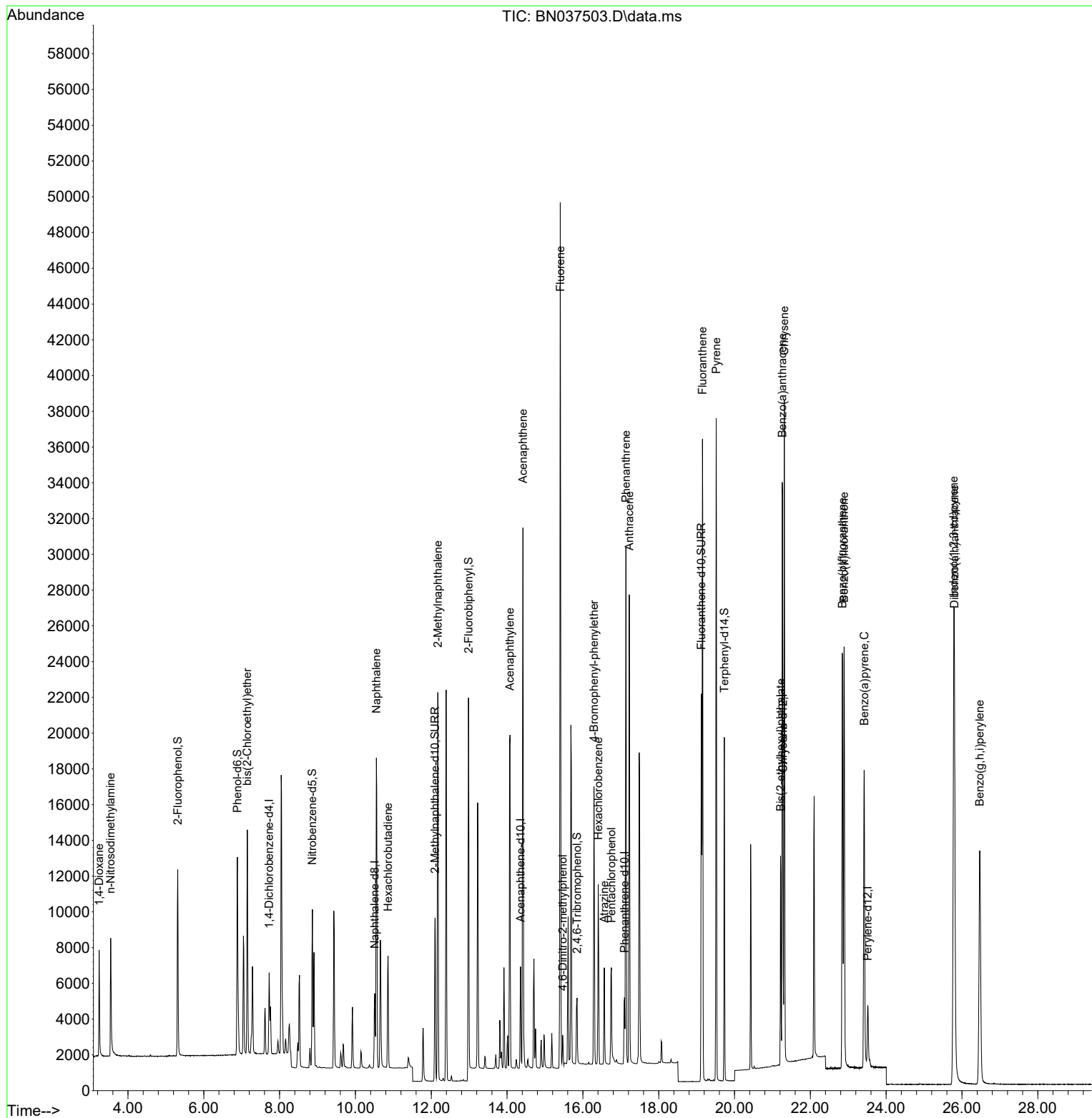
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2129	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5384	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3005	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	5542	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4955	0.400	ng	0.00
35) Perylene-d12	23.516	264	4551	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	8362	1.588	ng	0.00
5) Phenol-d6	6.886	99	10225	1.548	ng	0.00
8) Nitrobenzene-d5	8.864	82	6457	1.604	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	12096	1.566	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	2331	1.578	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	27369	1.751	ng	0.00
27) Fluoranthene-d10	19.127	212	23071	1.572	ng	0.00
31) Terphenyl-d14	19.731	244	16936	1.591	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	3392	1.657	ng	98
3) n-Nitrosodimethylamine	3.543	42	4327	1.681	ng	# 90
6) bis(2-Chloroethyl)ether	7.146	93	8832	1.607	ng	99
9) Naphthalene	10.551	128	23495	1.636	ng	98
10) Hexachlorobutadiene	10.861	225	5277	1.663	ng	# 98
12) 2-Methylnaphthalene	12.172	142	15410	1.632	ng	99
16) Acenaphthylene	14.077	152	22002	1.635	ng	100
17) Acenaphthene	14.419	154	14877	1.625	ng	99
18) Fluorene	15.403	166	19298	1.638	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	1268	1.576	ng	# 75
21) 4-Bromophenyl-phenylether	16.292	248	5943	1.674	ng	98
22) Hexachlorobenzene	16.404	284	7650	1.668	ng	100
23) Atrazine	16.565	200	4016	1.621	ng	95
24) Pentachlorophenol	16.751	266	3347	1.627	ng	99
25) Phenanthrene	17.136	178	27669	1.666	ng	100
26) Anthracene	17.223	178	25717	1.697	ng	100
28) Fluoranthene	19.155	202	31674	1.654	ng	99
30) Pyrene	19.517	202	31858	1.596	ng	100
32) Benzo(a)anthracene	21.259	228	28317	1.632	ng	99
33) Chrysene	21.313	228	29489	1.632	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	11959	1.532	ng	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	32244	1.701	ng	99
37) Benzo(b)fluoranthene	22.844	252	28933	1.675	ng	# 94
38) Benzo(k)fluoranthene	22.890	252	30228	1.696	ng	# 94
39) Benzo(a)pyrene	23.420	252	24034	1.668	ng	# 93
40) Dibenzo(a,h)anthracene	25.800	278	26285	1.712	ng	95
41) Benzo(g,h,i)perylene	26.466	276	26971	1.697	ng	96

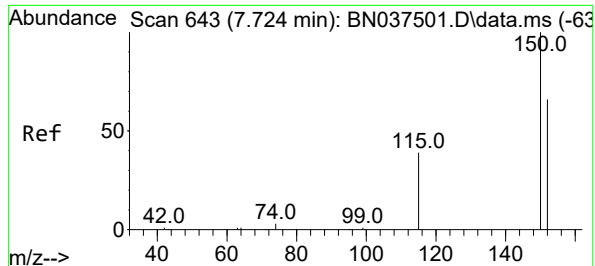
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037503.D
Acq On : 15 Jul 2025 15:01
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jul 15 17:27:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration

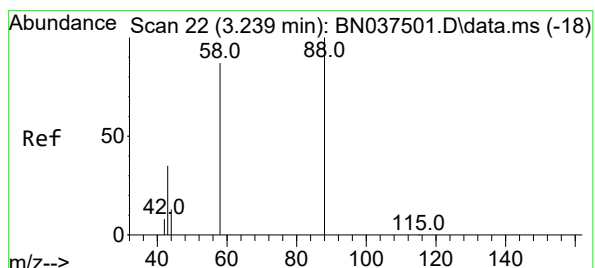
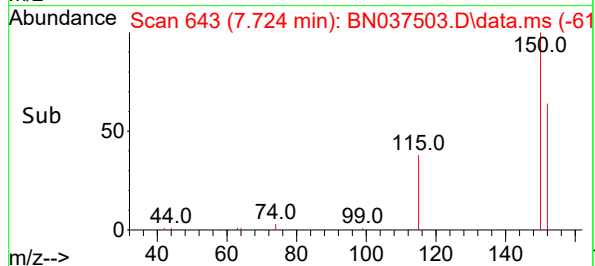
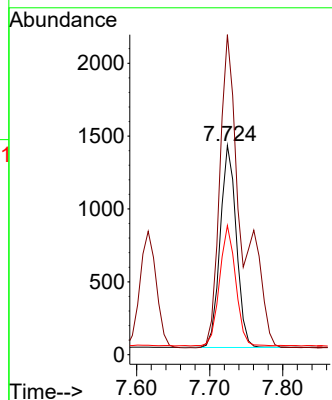
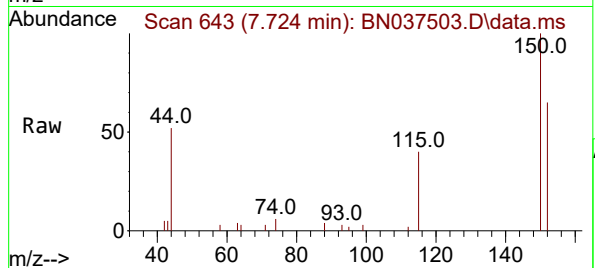




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

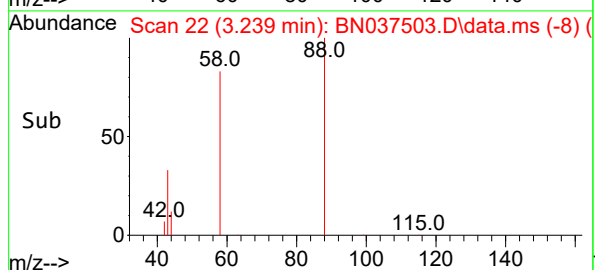
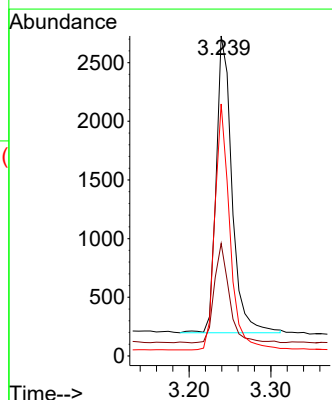
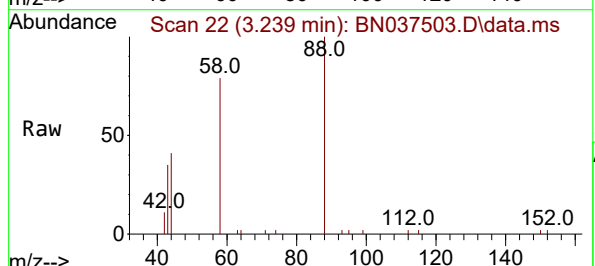
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

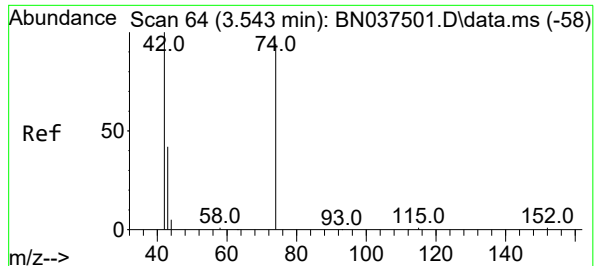
Tgt Ion:152 Resp: 2129
Ion Ratio Lower Upper
152 100
150 152.9 119.8 179.8
115 61.7 49.1 73.7



#2
1,4-Dioxane
Concen: 1.657 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion: 88 Resp: 3392
Ion Ratio Lower Upper
88 100
43 31.9 27.5 41.3
58 78.8 62.7 94.1

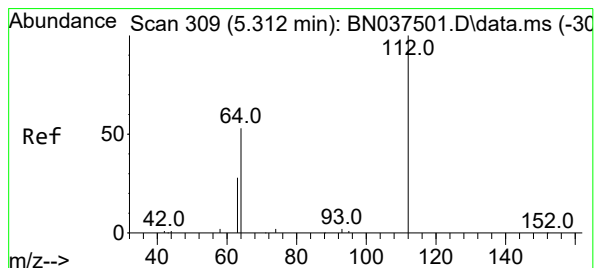
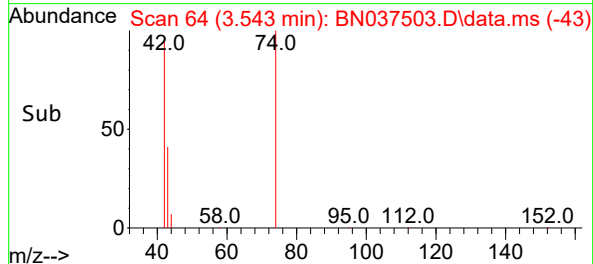
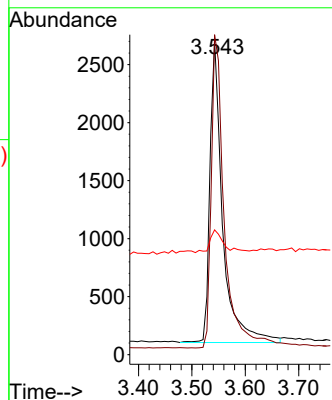
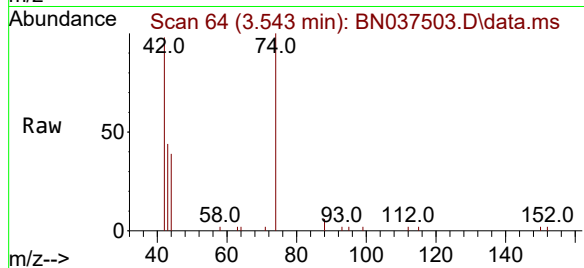




#3
n-Nitrosodimethylamine
Concen: 1.681 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

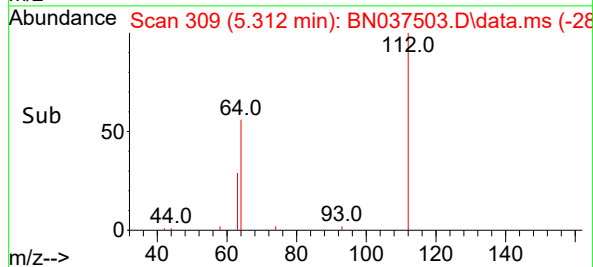
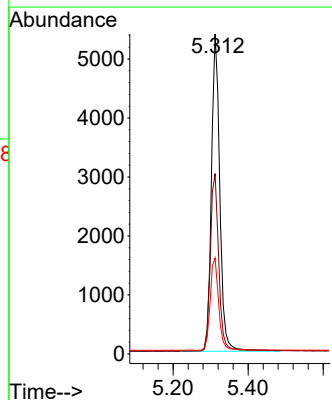
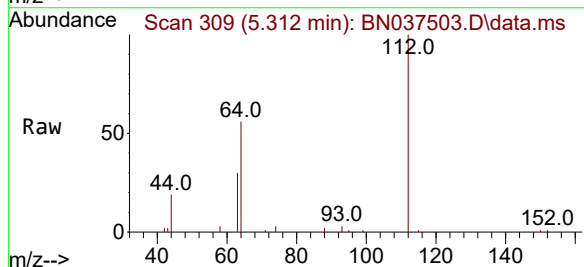
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

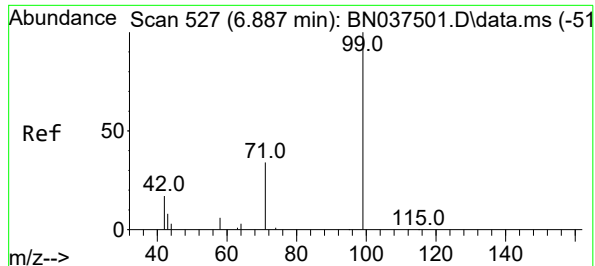
Tgt Ion: 42 Resp: 4327
Ion Ratio Lower Upper
42 100
74 106.7 91.8 137.6
44 8.3 15.0 22.6#



#4
2-Fluorophenol
Concen: 1.588 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion: 112 Resp: 8362
Ion Ratio Lower Upper
112 100
64 56.3 45.1 67.7
63 29.9 23.8 35.8

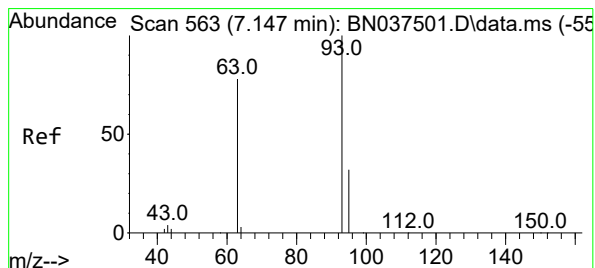
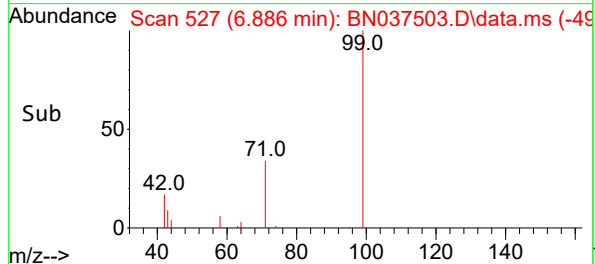
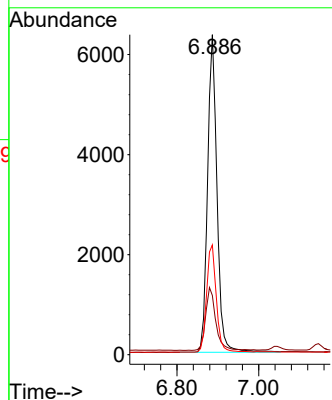
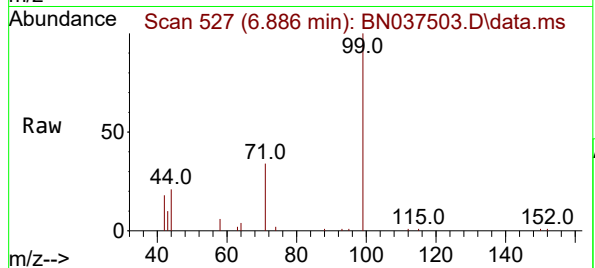




#5
Phenol-d6
Concen: 1.548 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

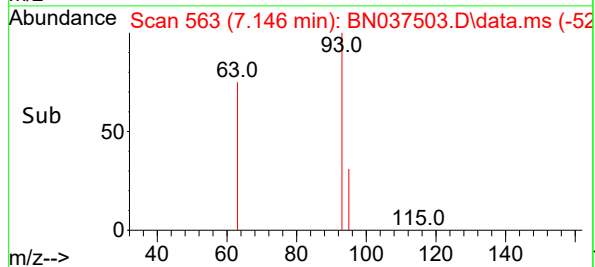
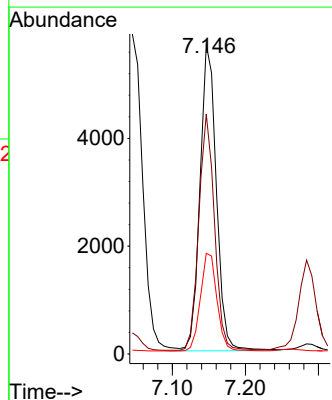
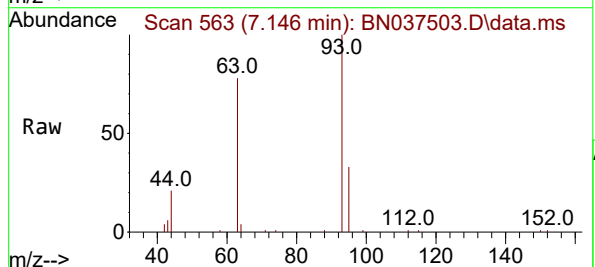
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

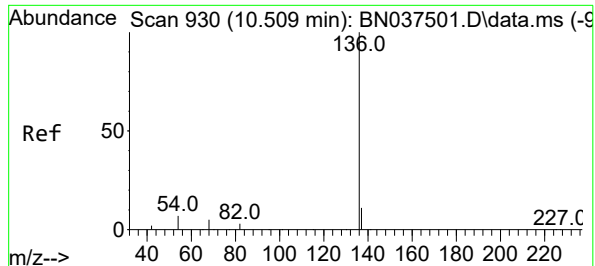
Tgt Ion: 99 Resp: 10225
Ion Ratio Lower Upper
99 100
42 21.6 17.1 25.7
71 34.7 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 1.607 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion: 93 Resp: 8832
Ion Ratio Lower Upper
93 100
63 73.9 58.2 87.4
95 32.4 25.3 37.9

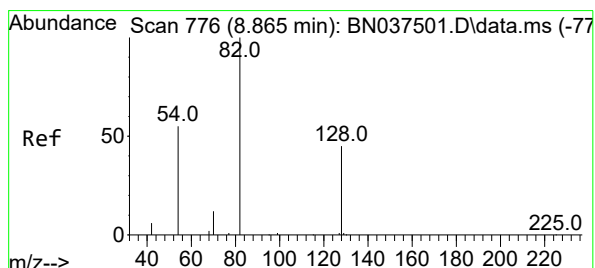
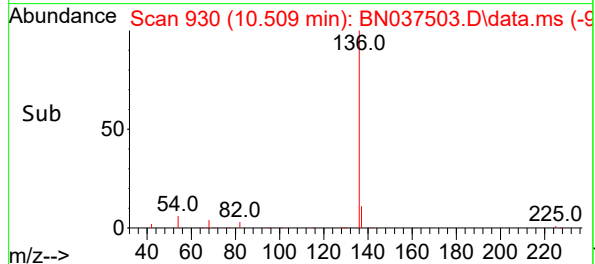
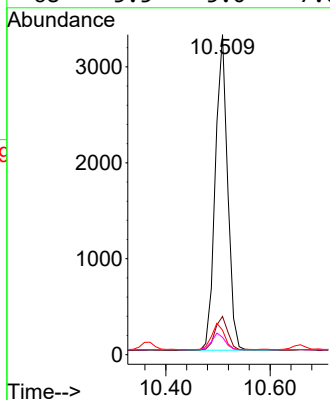
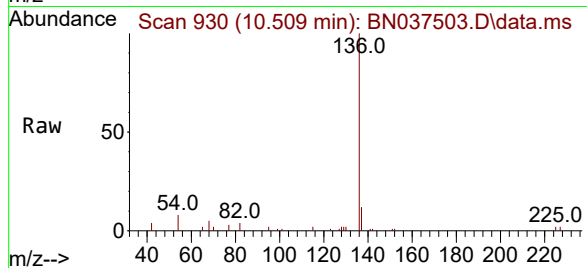




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

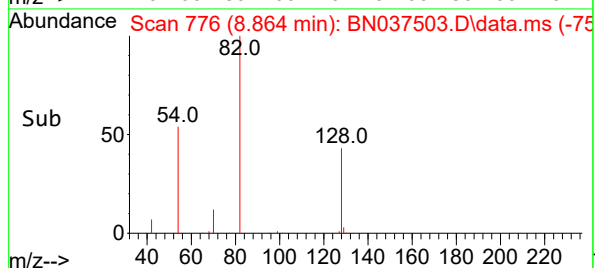
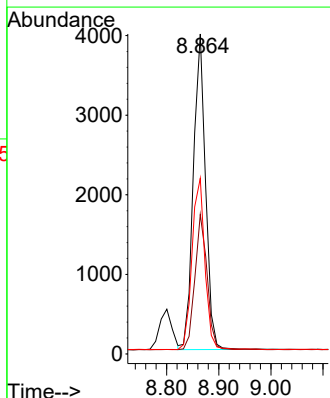
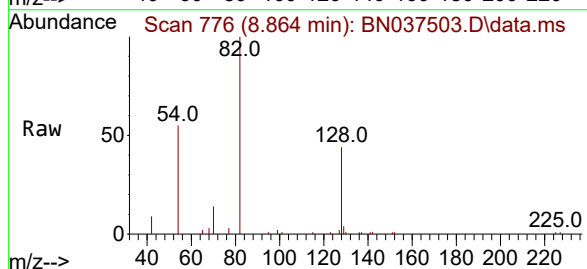
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

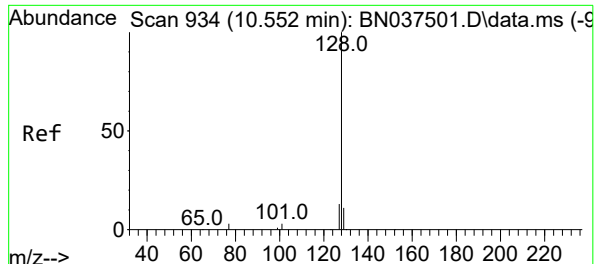
Tgt Ion:	136	Resp:	5384
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	7.7	6.6	9.8
68	5.5	5.0	7.6



#8
Nitrobenzene-d5
Concen: 1.604 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:	82	Resp:	6457
Ion	Ratio	Lower	Upper
82	100		
128	43.6	37.5	56.3
54	54.9	45.3	67.9

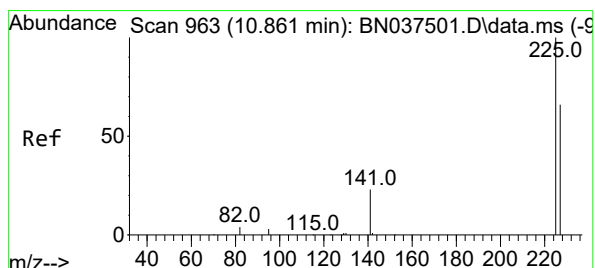
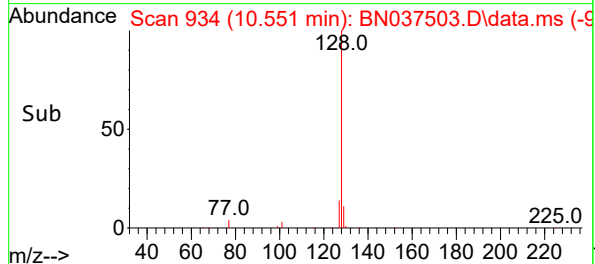
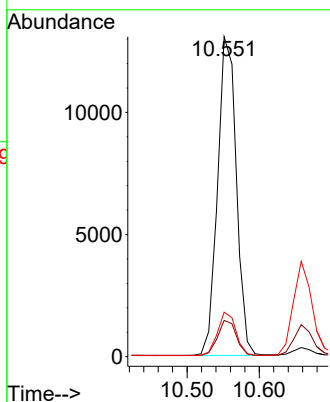
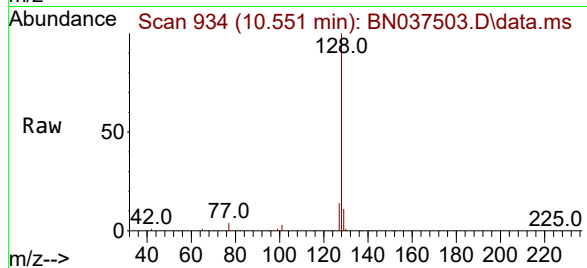




#9
Naphthalene
Concen: 1.636 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

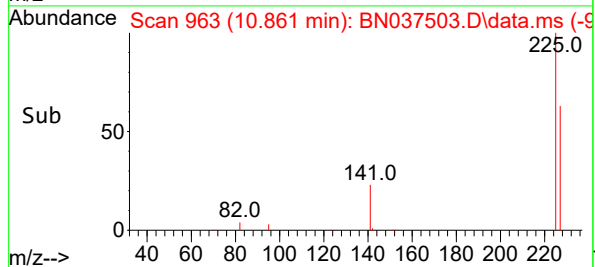
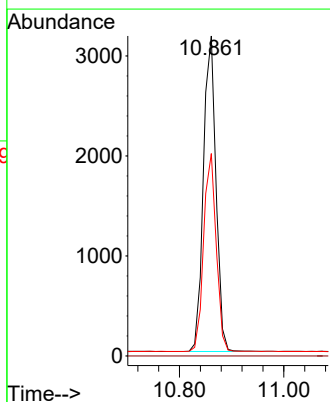
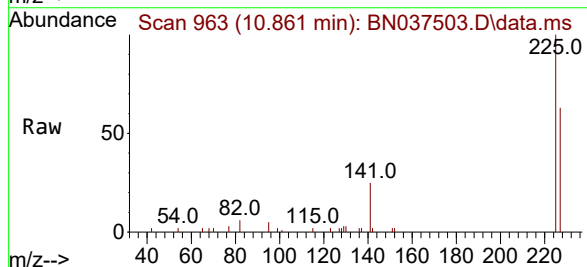
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

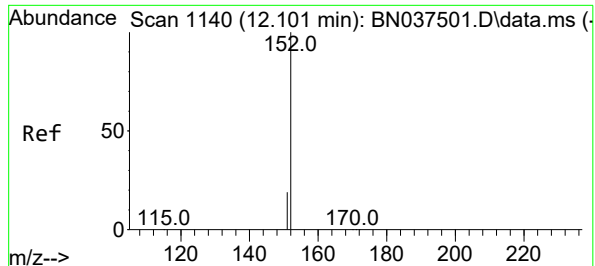
Tgt Ion:128 Resp: 23495
Ion Ratio Lower Upper
128 100
129 11.3 9.7 14.5
127 13.9 11.5 17.3



#10
Hexachlorobutadiene
Concen: 1.663 ng
RT: 10.861 min Scan# 963
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:225 Resp: 5277
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.4 51.0 76.4

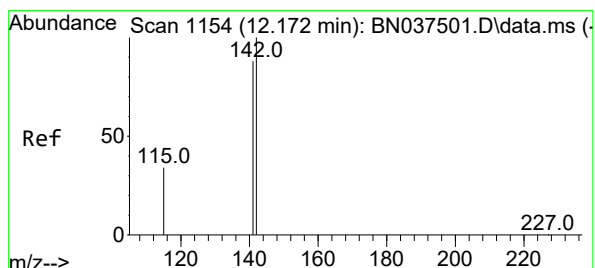
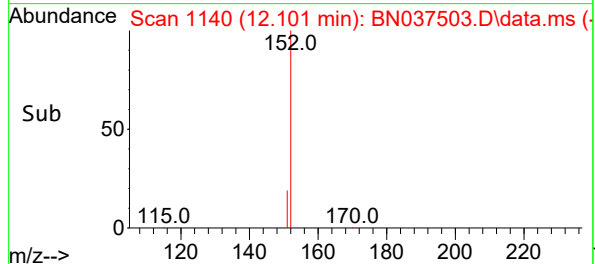
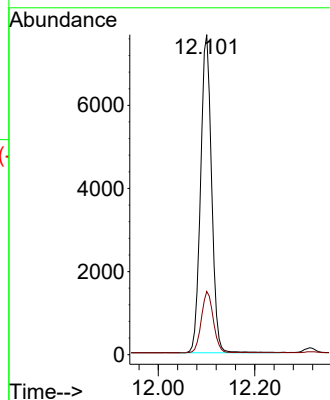
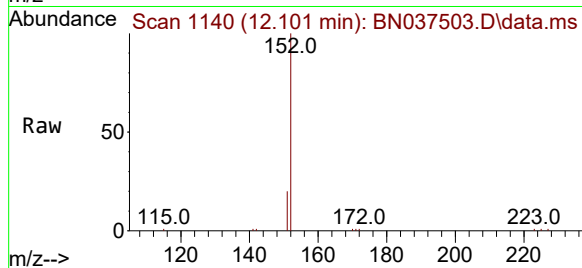




#11
2-Methylnaphthalene-d10
Concen: 1.566 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

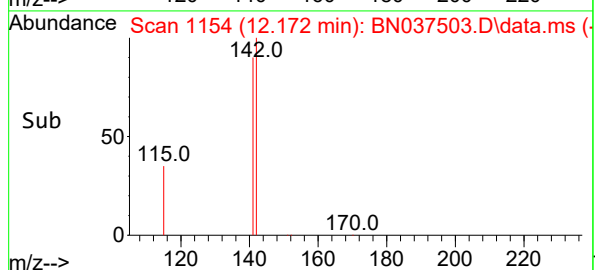
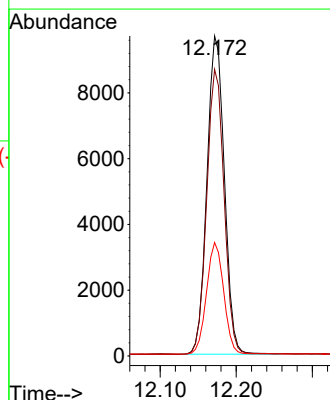
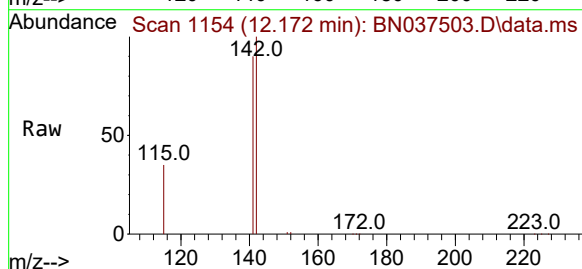
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

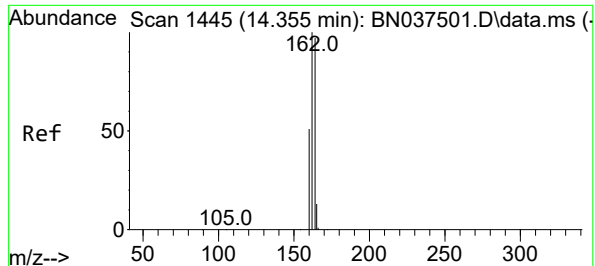
Tgt Ion:152 Resp: 12096
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#12
2-Methylnaphthalene
Concen: 1.632 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:142 Resp: 15410
Ion Ratio Lower Upper
142 100
141 89.5 71.0 106.4
115 35.4 29.0 43.4

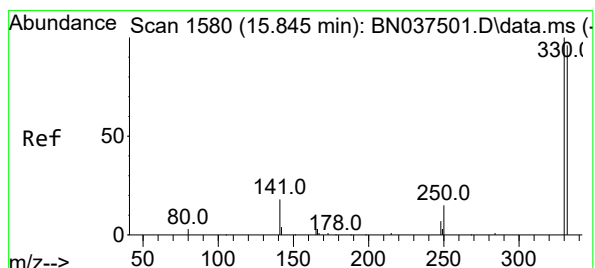
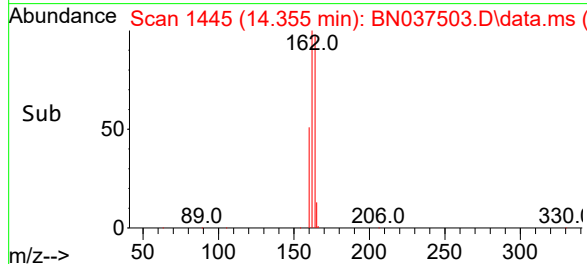
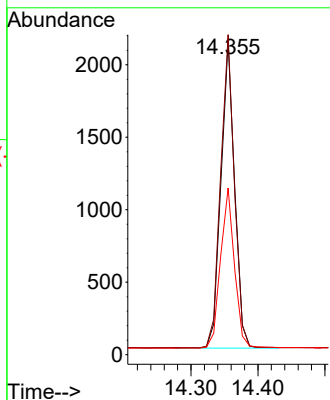
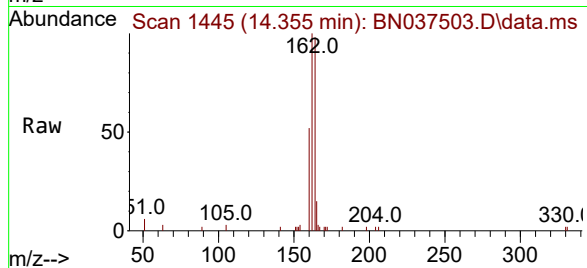




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

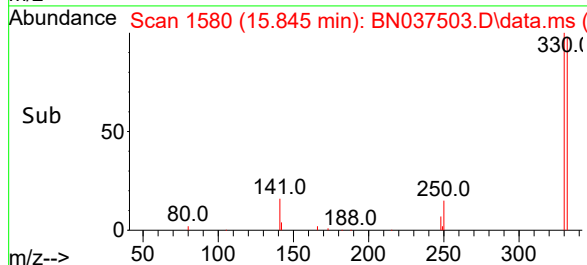
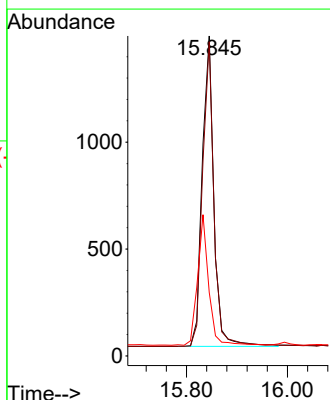
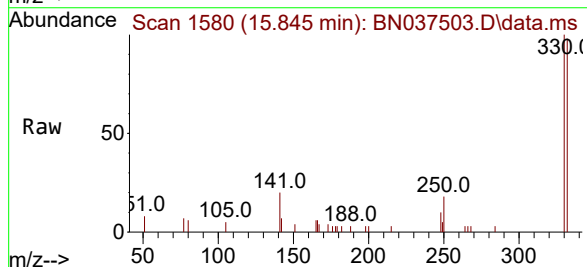
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

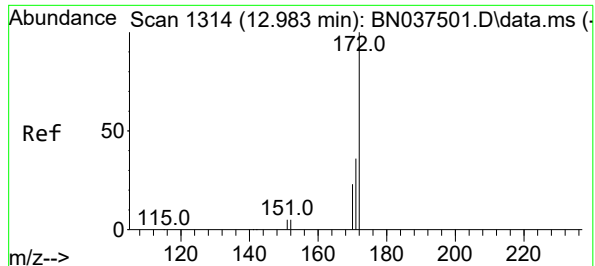
Tgt Ion:164 Resp: 3005
Ion Ratio Lower Upper
164 100
162 102.0 82.0 123.0
160 53.1 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 1.578 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:330 Resp: 2331
Ion Ratio Lower Upper
330 100
332 96.1 76.1 114.1
141 40.0 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 1.751 ng

RT: 12.983 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

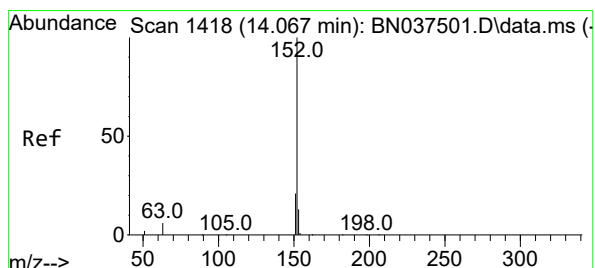
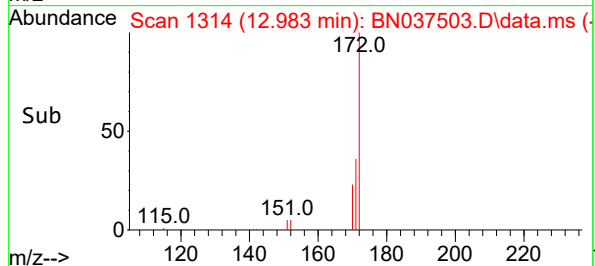
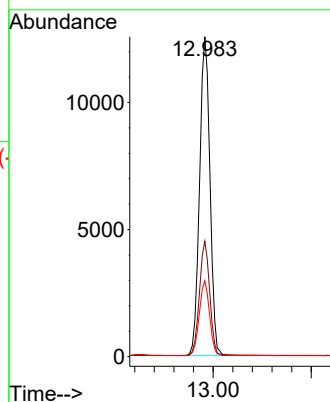
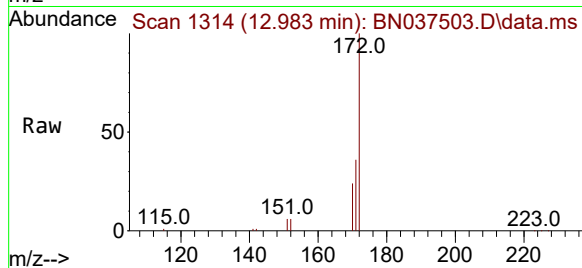
Tgt Ion:172 Resp: 27369

Ion Ratio Lower Upper

172 100

171 36.1 29.4 44.2

170 23.7 19.4 29.0



#16

Acenaphthylene

Concen: 1.635 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.011 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

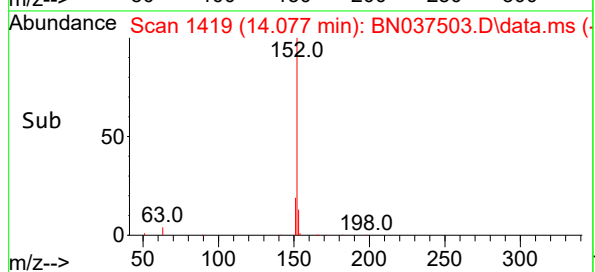
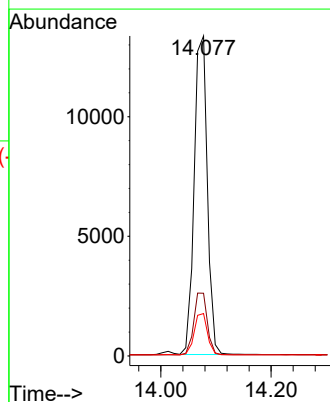
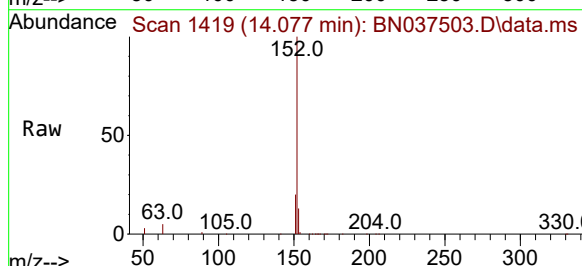
Tgt Ion:152 Resp: 22002

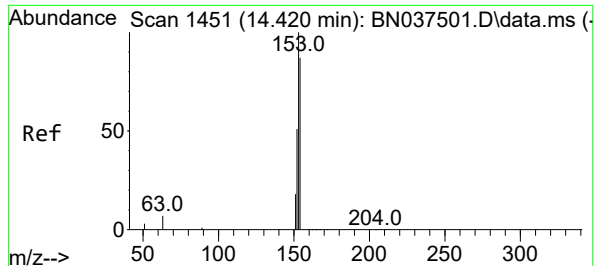
Ion Ratio Lower Upper

152 100

151 19.9 15.9 23.9

153 13.2 10.7 16.1

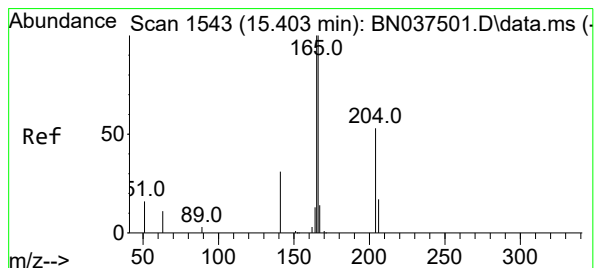
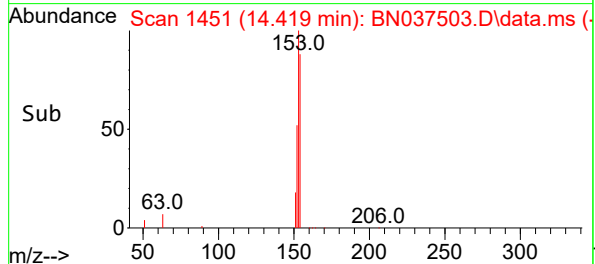
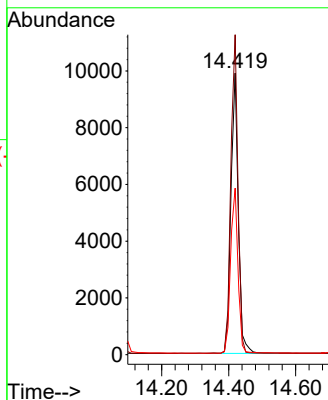
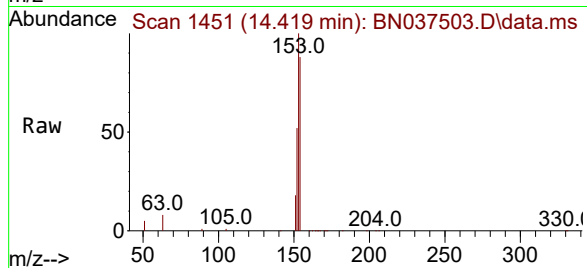




#17
Acenaphthene
Concen: 1.625 ng
RT: 14.419 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

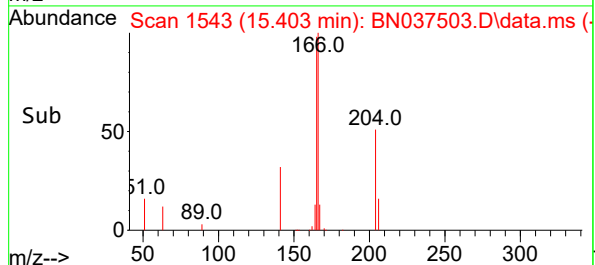
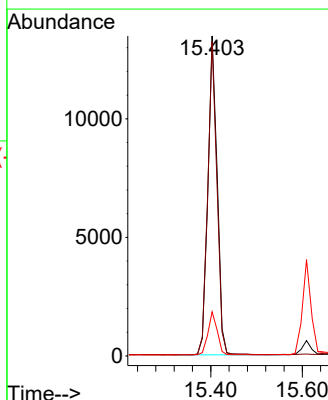
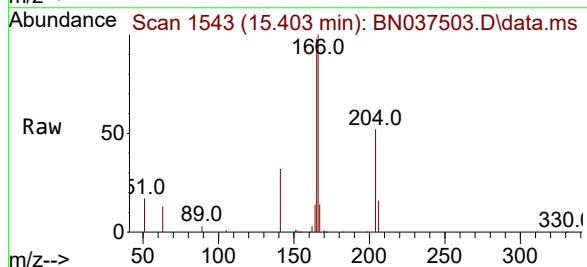
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

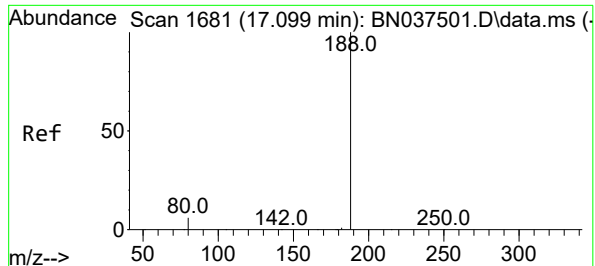
Tgt Ion:154 Resp: 14877
Ion Ratio Lower Upper
154 100
153 110.6 89.2 133.8
152 59.5 48.0 72.0



#18
Fluorene
Concen: 1.638 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:166 Resp: 19298
Ion Ratio Lower Upper
166 100
165 96.1 78.1 117.1
167 13.1 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

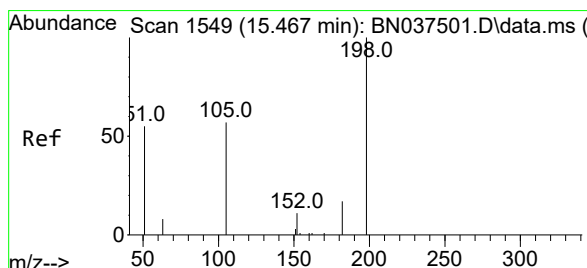
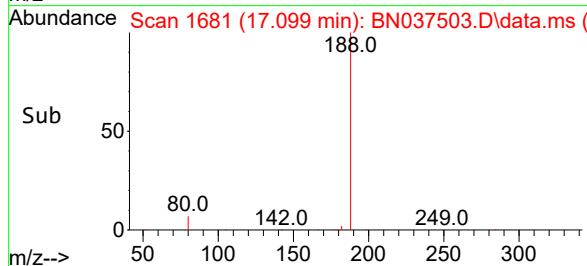
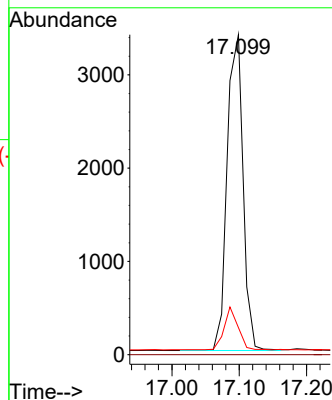
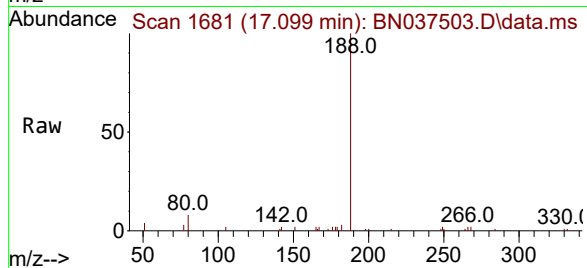
Tgt Ion:188 Resp: 5542

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 1.576 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

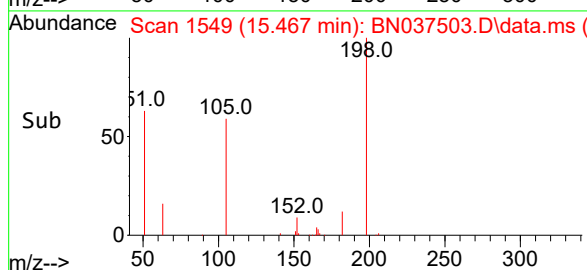
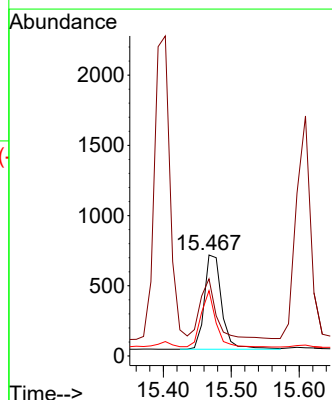
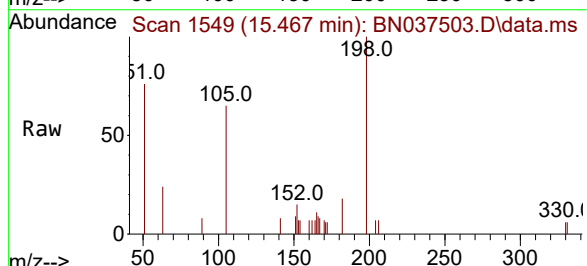
Tgt Ion:198 Resp: 1268

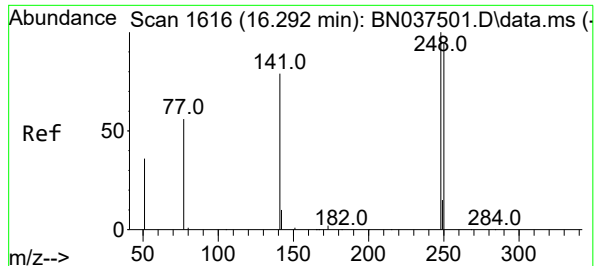
Ion Ratio Lower Upper

198 100

51 76.5 88.5 132.7#

105 64.7 61.2 91.8

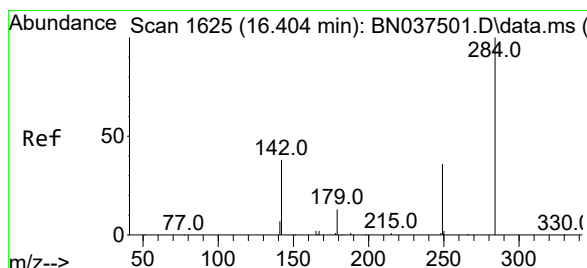
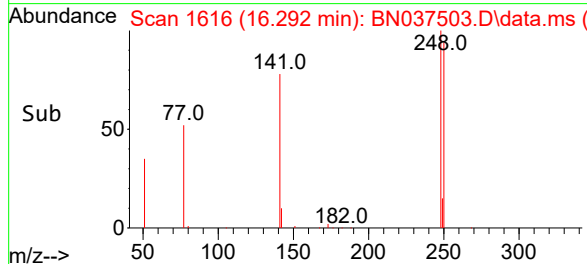
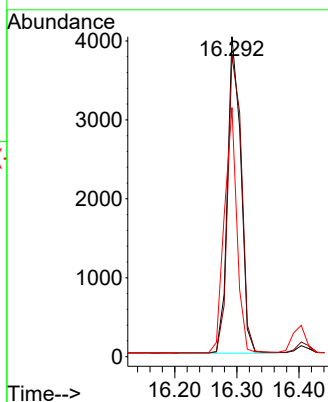
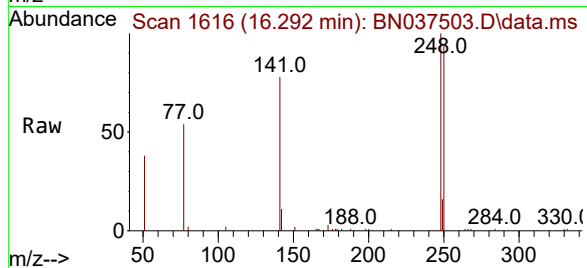




#21
4-Bromophenyl-phenylether
Concen: 1.674 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

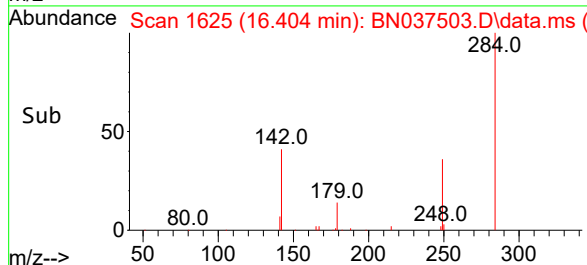
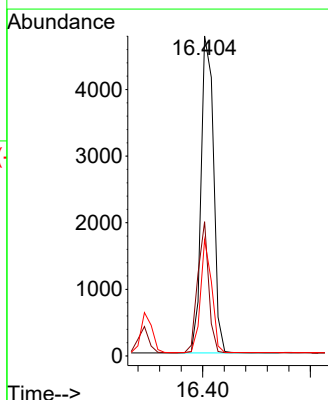
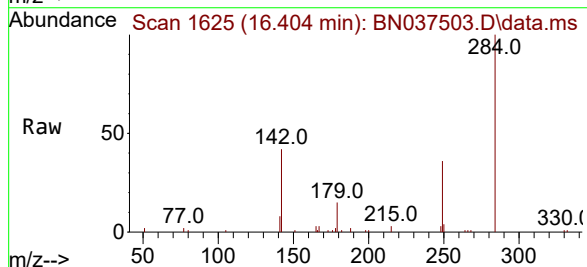
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

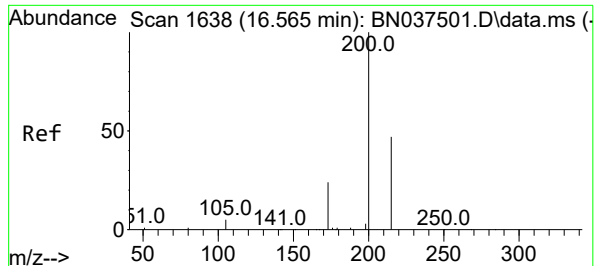
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.1	76.2	114.2
141	77.8	63.9	95.9



#22
Hexachlorobenzene
Concen: 1.668 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.4	28.9	43.3
249	32.1	25.8	38.6

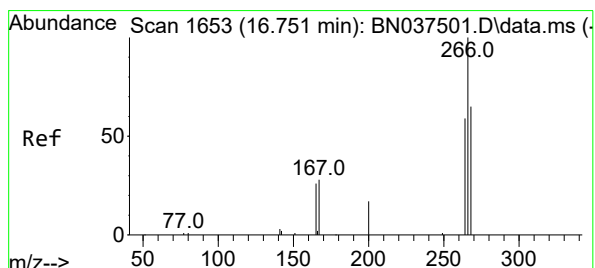
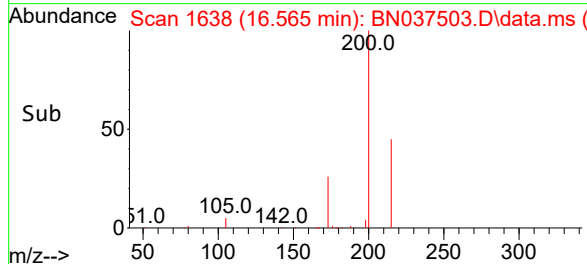
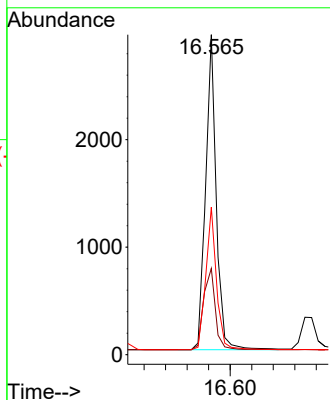
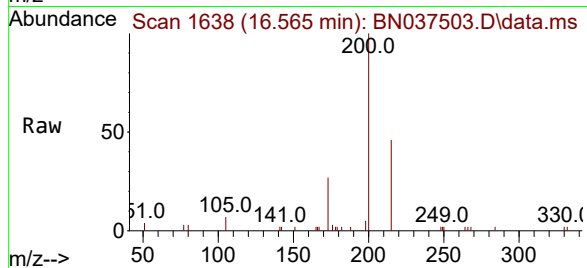




#23
Atrazine
Concen: 1.621 ng
RT: 16.565 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

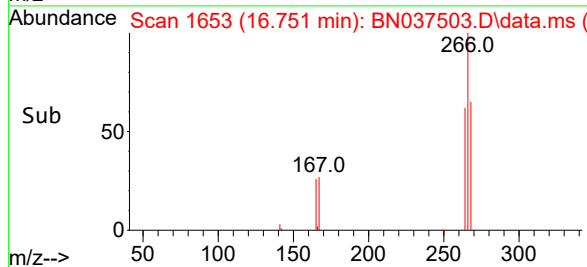
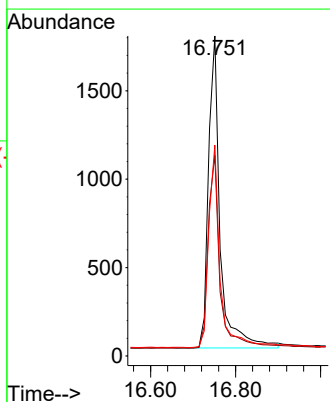
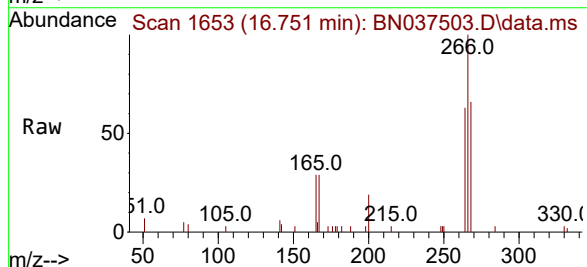
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

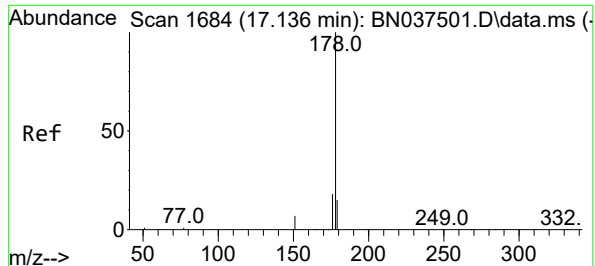
Tgt Ion:200 Resp: 4016
Ion Ratio Lower Upper
200 100
173 27.0 23.2 34.8
215 46.1 40.2 60.4



#24
Pentachlorophenol
Concen: 1.627 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:266 Resp: 3347
Ion Ratio Lower Upper
266 100
264 62.6 49.3 73.9
268 64.1 51.6 77.4

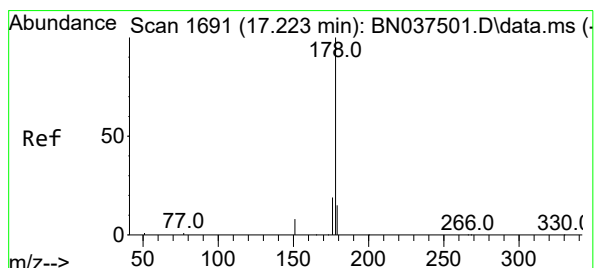
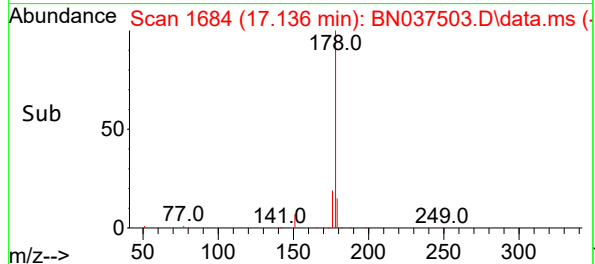
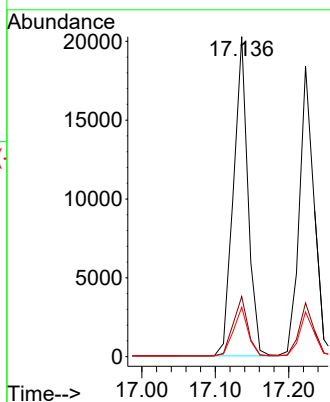
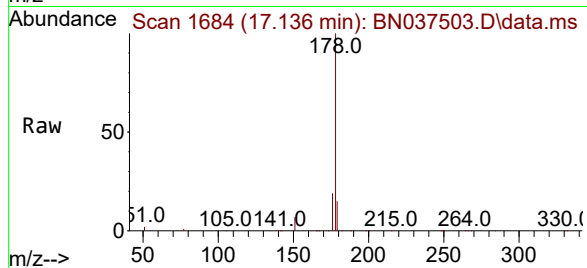




#25
Phenanthrene
Concen: 1.666 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

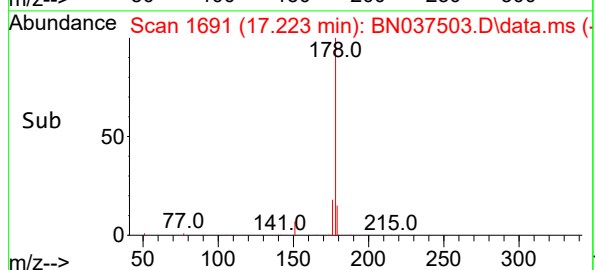
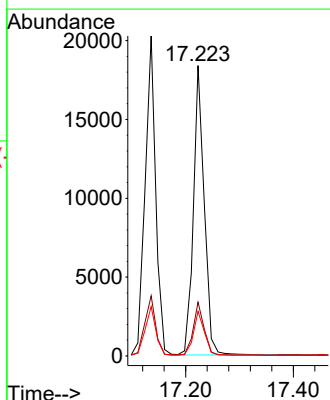
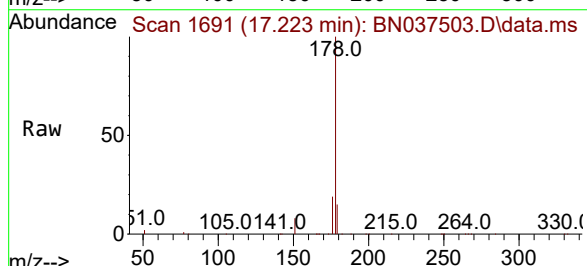
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

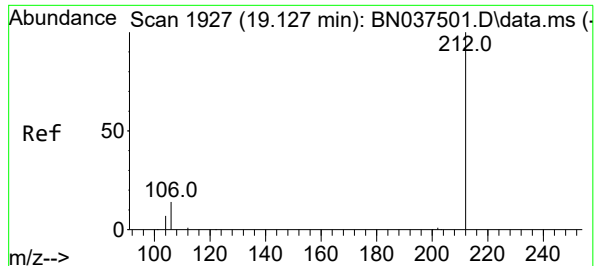
Tgt Ion:178 Resp: 27669
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.2 18.2



#26
Anthracene
Concen: 1.697 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:178 Resp: 25717
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.572 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

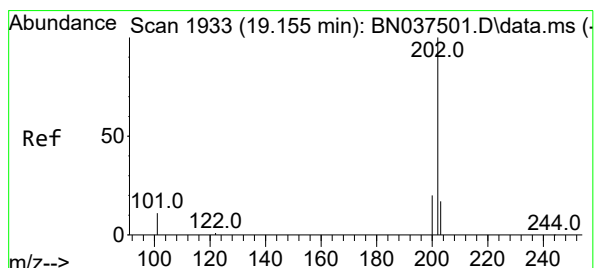
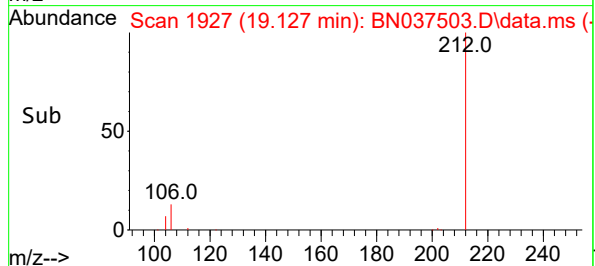
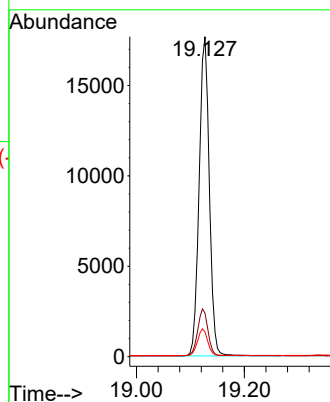
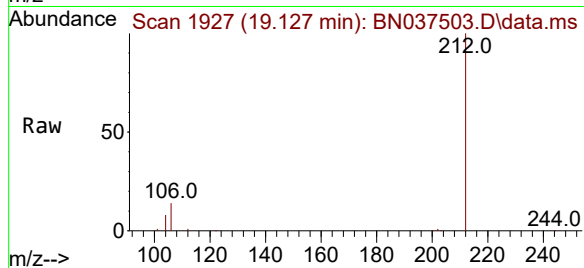
Tgt Ion:212 Resp: 23071

Ion Ratio Lower Upper

212 100

106 14.8 12.2 18.4

104 8.3 6.7 10.1



#28

Fluoranthene

Concen: 1.654 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

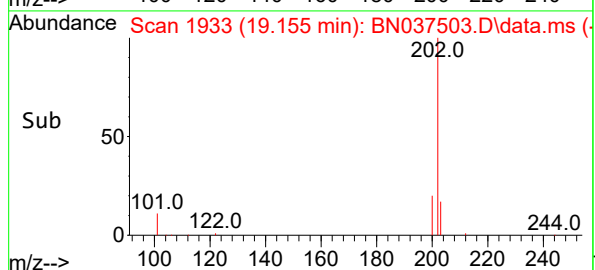
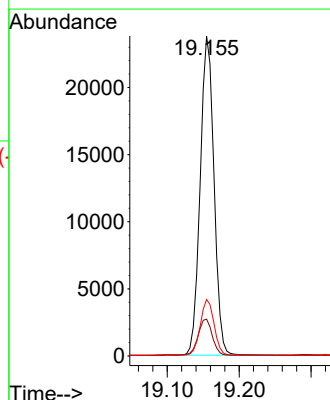
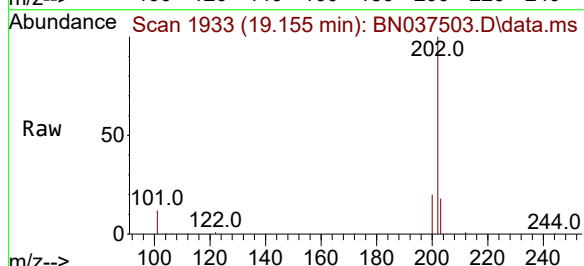
Tgt Ion:202 Resp: 31674

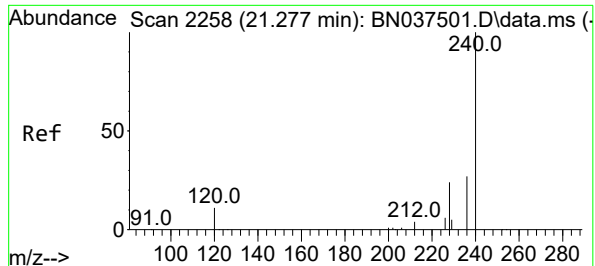
Ion Ratio Lower Upper

202 100

101 11.7 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

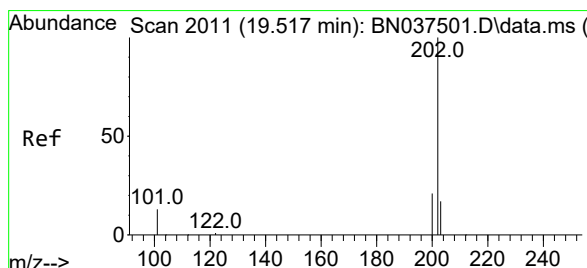
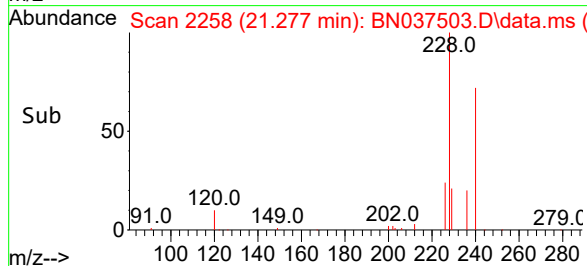
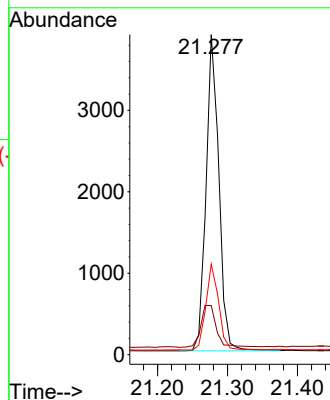
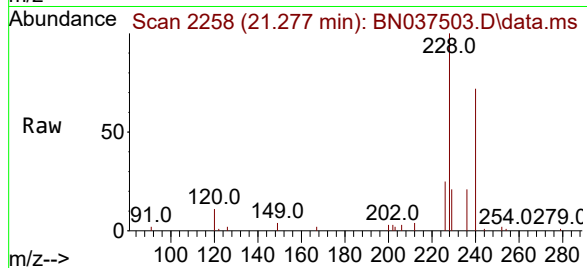
Tgt Ion:240 Resp: 4955

Ion Ratio Lower Upper

240 100

120 15.4 10.7 16.1

236 28.3 22.6 33.8



#30

Pyrene

Concen: 1.596 ng

RT: 19.517 min Scan# 2011

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

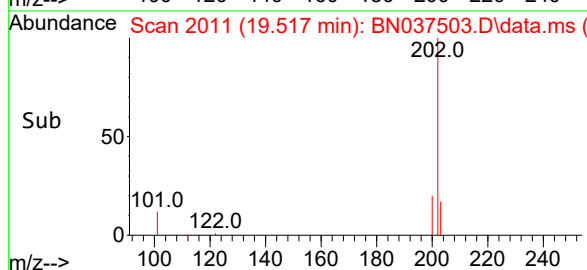
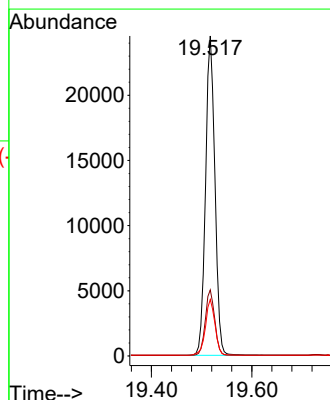
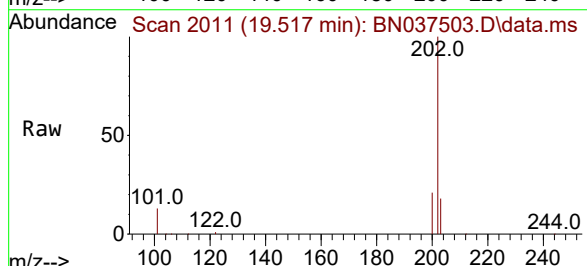
Tgt Ion:202 Resp: 31858

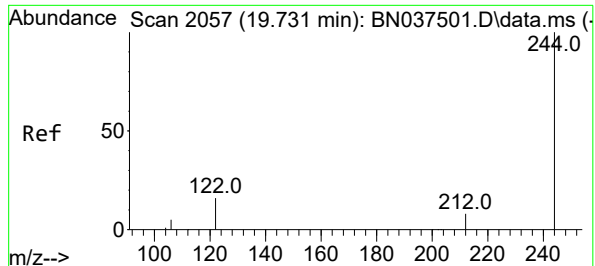
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.7 14.3 21.5

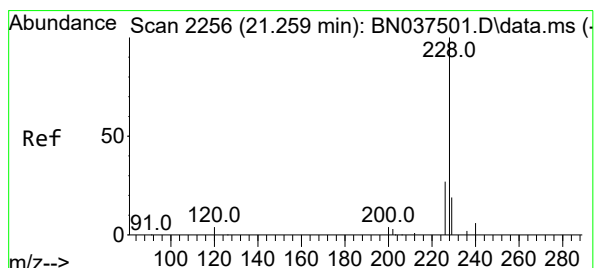
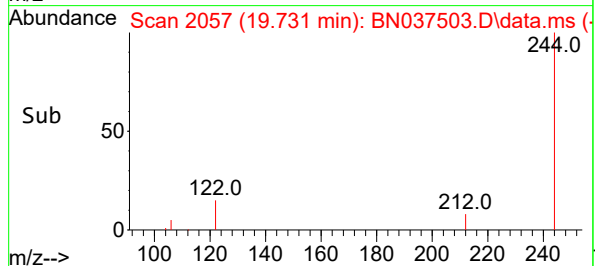
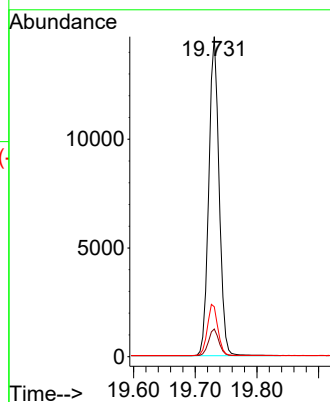
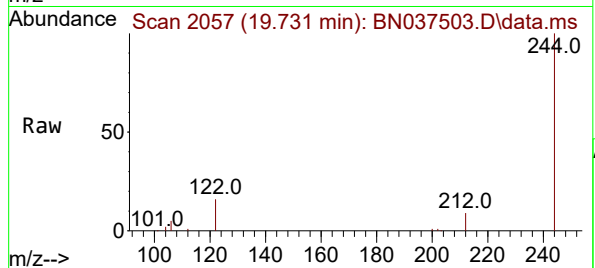




#31
Terphenyl-d14
Concen: 1.591 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

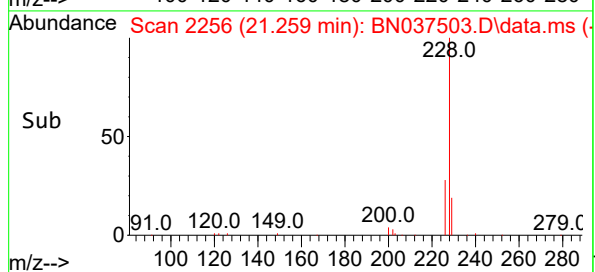
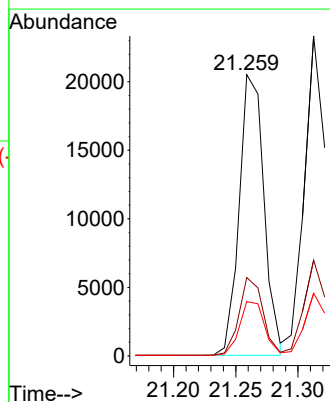
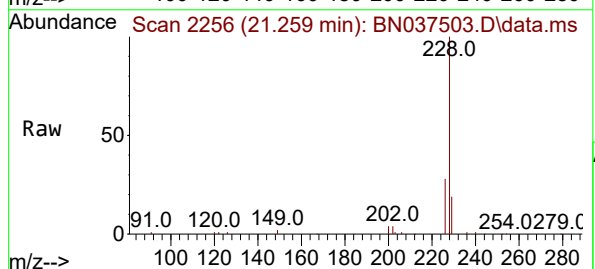
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

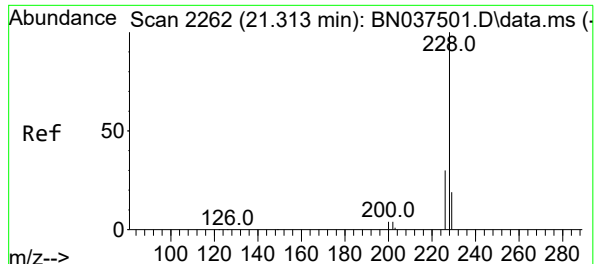
Tgt Ion:244 Resp: 16936
Ion Ratio Lower Upper
244 100
212 8.6 7.4 11.2
122 15.6 13.6 20.4



#32
Benzo(a)anthracene
Concen: 1.632 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:228 Resp: 28317
Ion Ratio Lower Upper
228 100
226 27.9 21.9 32.9
229 19.3 15.8 23.8

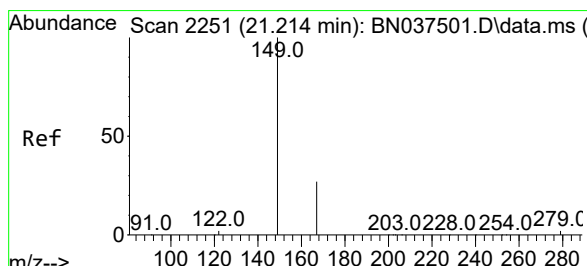
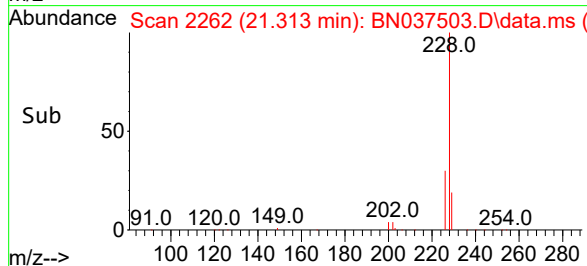
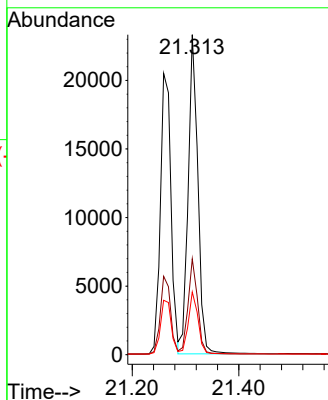
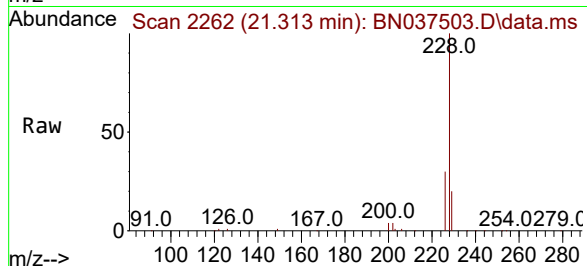




#33
Chrysene
Concen: 1.632 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

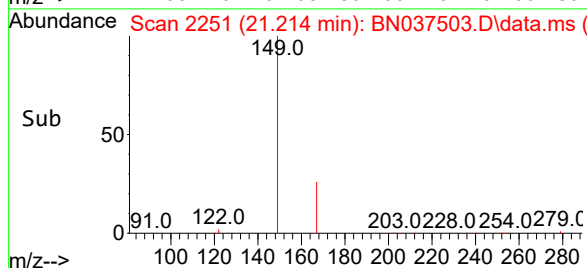
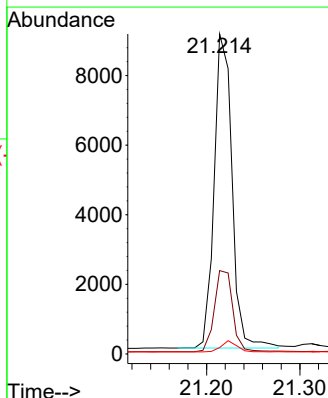
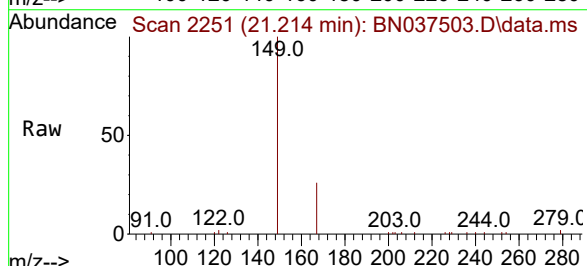
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

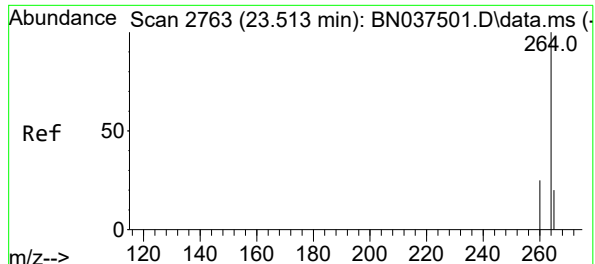
Tgt Ion:228 Resp: 29489
Ion Ratio Lower Upper
228 100
226 30.0 24.2 36.4
229 19.6 16.1 24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 1.532 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Tgt Ion:149 Resp: 11959
Ion Ratio Lower Upper
149 100
167 26.5 21.8 32.8
279 3.1 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037503.D

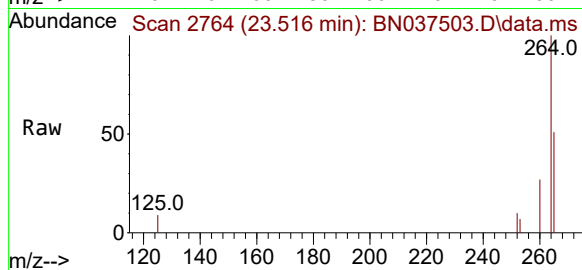
Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



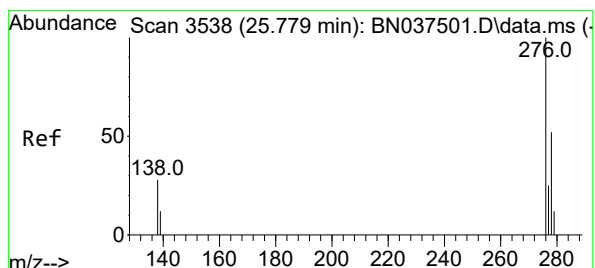
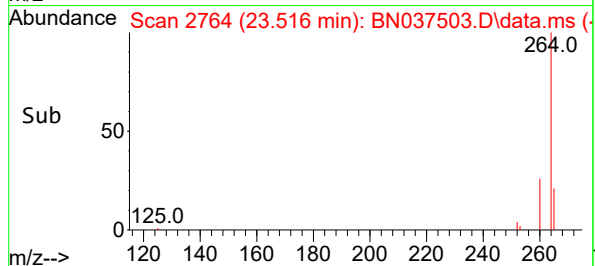
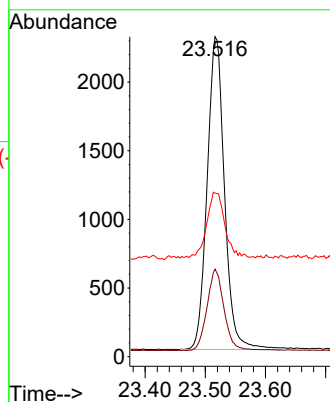
Tgt Ion:264 Resp: 4551

Ion Ratio Lower Upper

264 100

260 27.3 21.2 31.8

265 51.1 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.701 ng

RT: 25.782 min Scan# 3539

Delta R.T. 0.003 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

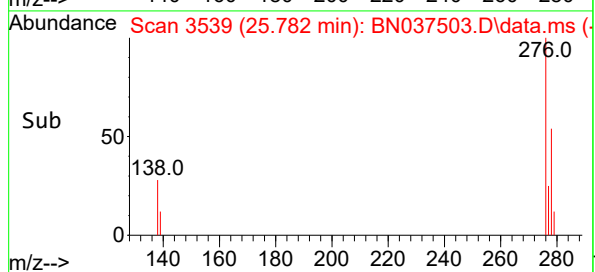
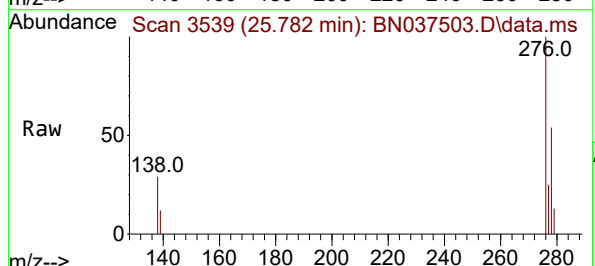
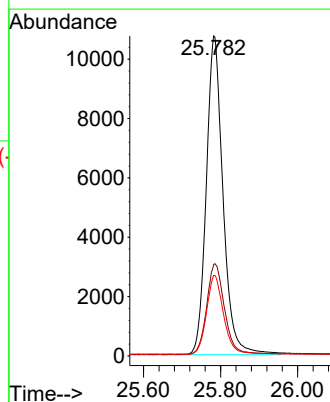
Tgt Ion:276 Resp: 32244

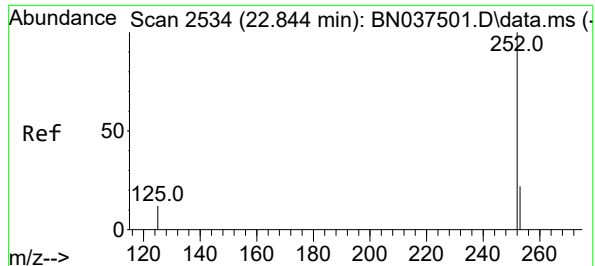
Ion Ratio Lower Upper

276 100

138 30.1 24.0 36.0

277 25.1 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 1.675 ng

RT: 22.844 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

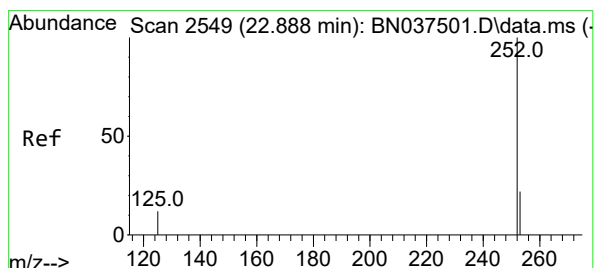
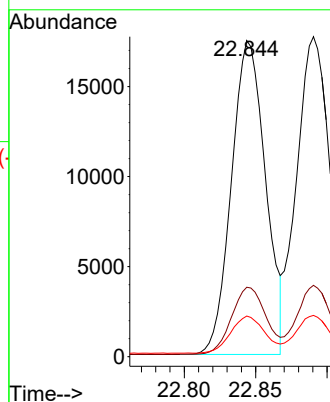
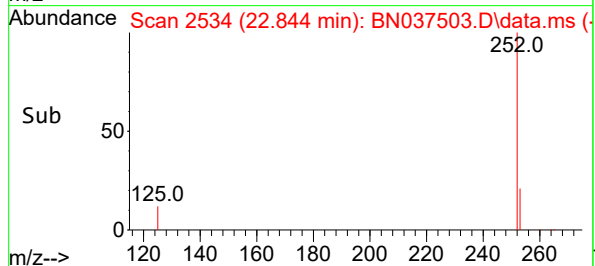
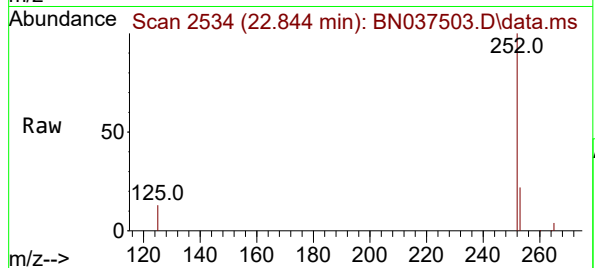
Tgt Ion:252 Resp: 28933

Ion Ratio Lower Upper

252 100

253 22.0 19.5 29.3

125 12.9 13.0 19.6#



#38

Benzo(k)fluoranthene

Concen: 1.696 ng

RT: 22.890 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

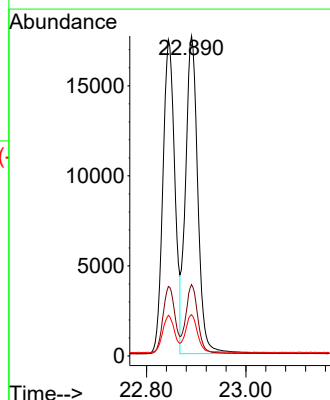
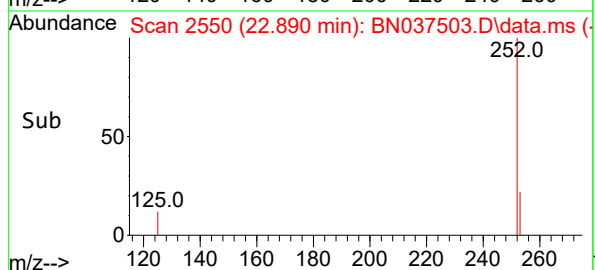
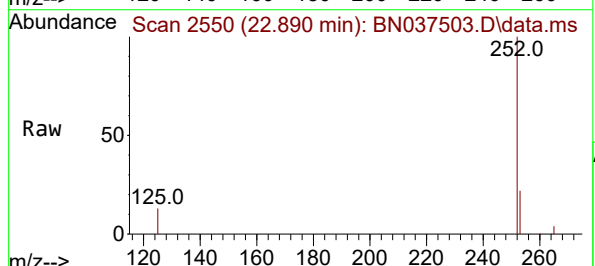
Tgt Ion:252 Resp: 30228

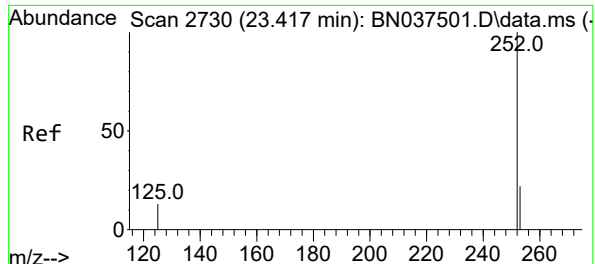
Ion Ratio Lower Upper

252 100

253 22.3 19.5 29.3

125 12.9 13.1 19.7#





#39

Benzo(a)pyrene

Concen: 1.668 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037503.D

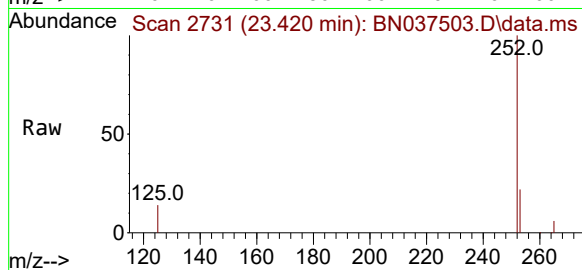
Acq: 15 Jul 2025 15:01

Instrument :

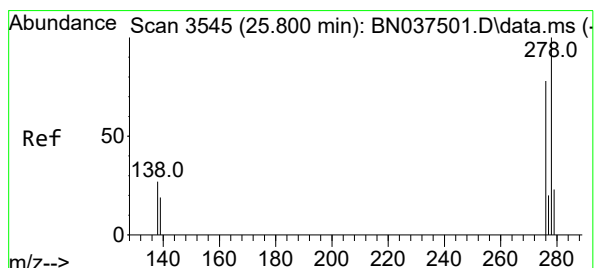
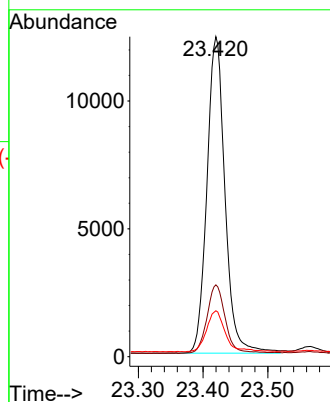
BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:	252	Resp:	24034
Ion Ratio	Lower	Upper	
252	100		
253	22.5	19.9	29.9
125	14.3	15.2	22.8



#40

Dibenzo(a,h)anthracene

Concen: 1.712 ng

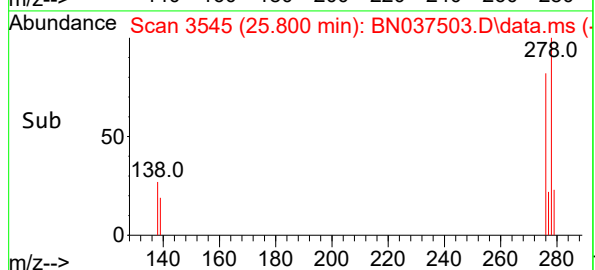
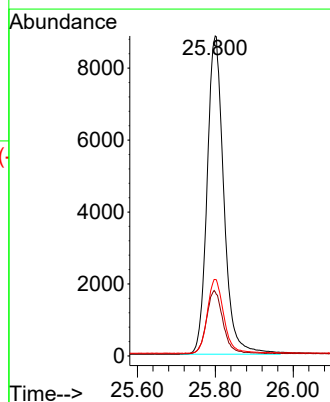
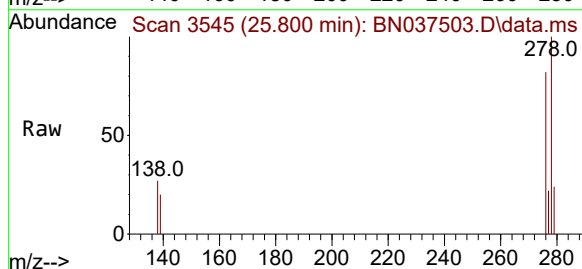
RT: 25.800 min Scan# 3545

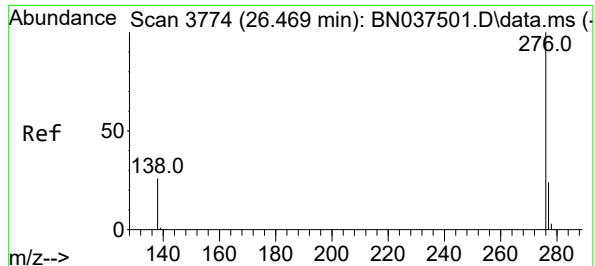
Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Tgt Ion:	278	Resp:	26285
Ion Ratio	Lower	Upper	
278	100		
139	20.0	17.5	26.3
279	23.9	21.3	31.9





#41

Benzo(g,h,i)perylene

Concen: 1.697 ng

RT: 26.466 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037503.D

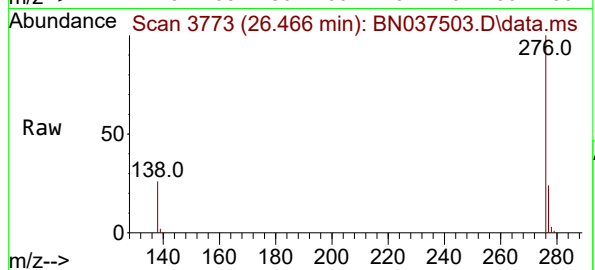
Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



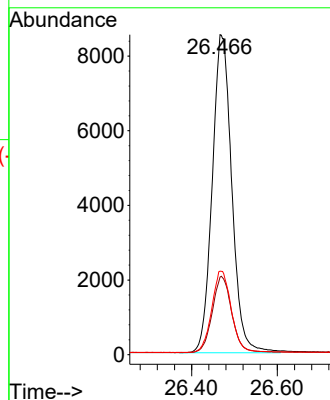
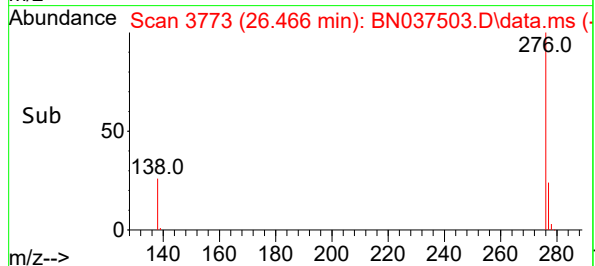
Tgt Ion:276 Resp: 26971

Ion Ratio Lower Upper

276 100

277 24.3 20.9 31.3

138 26.1 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037504.D
 Acq On : 15 Jul 2025 15:38
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jul 15 17:28:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 16:45:15 2025
 Response via : Initial Calibration

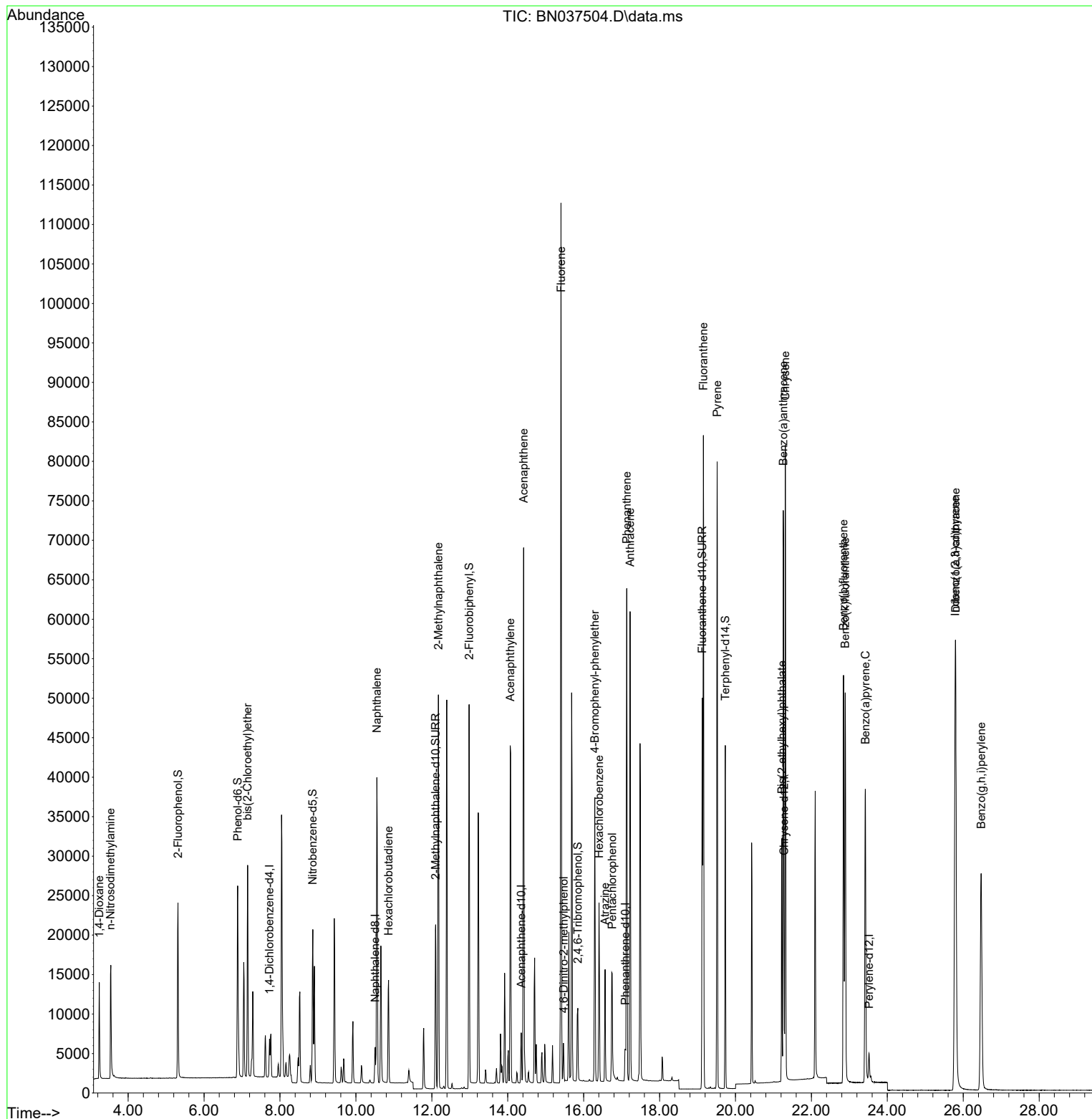
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2243	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5878	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3382	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6204	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5331	0.400	ng	0.00
35) Perylene-d12	23.519	264	4672	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	17416	3.140	ng	0.00
5) Phenol-d6	6.887	99	22047	3.169	ng	0.00
8) Nitrobenzene-d5	8.865	82	14330	3.261	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	27759	3.293	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	5808	3.494	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	59667	3.393	ng	0.00
27) Fluoranthene-d10	19.127	212	53521	3.257	ng	0.00
31) Terphenyl-d14	19.731	244	38458	3.357	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	6815	3.161	ng	98
3) n-Nitrosodimethylamine	3.535	42	8946	3.298	ng	# 93
6) bis(2-Chloroethyl)ether	7.147	93	18545	3.203	ng	98
9) Naphthalene	10.552	128	50467	3.219	ng	98
10) Hexachlorobutadiene	10.861	225	11106	3.206	ng	# 100
12) 2-Methylnaphthalene	12.172	142	34611	3.358	ng	99
16) Acenaphthylene	14.067	152	51277	3.385	ng	99
17) Acenaphthene	14.420	154	33858	3.286	ng	98
18) Fluorene	15.403	166	43450	3.276	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	3484	3.233	ng	# 28
21) 4-Bromophenyl-phenylether	16.292	248	13494	3.395	ng	96
22) Hexachlorobenzene	16.404	284	16890	3.289	ng	99
23) Atrazine	16.565	200	9939	3.584	ng	95
24) Pentachlorophenol	16.751	266	8417	3.654	ng	99
25) Phenanthrene	17.136	178	61959	3.333	ng	100
26) Anthracene	17.223	178	58358	3.441	ng	100
28) Fluoranthene	19.155	202	71018	3.313	ng	99
30) Pyrene	19.517	202	71002	3.306	ng	100
32) Benzo(a)anthracene	21.259	228	62418	3.343	ng	99
33) Chrysene	21.313	228	63542	3.268	ng	99
34) Bis(2-ethylhexyl)phtha...	21.223	149	29561	3.519	ng	99
36) Indeno(1,2,3-cd)pyrene	25.788	276	67476	3.467	ng	99
37) Benzo(b)fluoranthene	22.847	252	60420	3.407	ng	# 93
38) Benzo(k)fluoranthene	22.891	252	63137	3.450	ng	# 93
39) Benzo(a)pyrene	23.420	252	51171	3.459	ng	# 92
40) Dibenzo(a,h)anthracene	25.800	278	55412	3.516	ng	95
41) Benzo(g,h,i)perylene	26.472	276	55959	3.430	ng	96

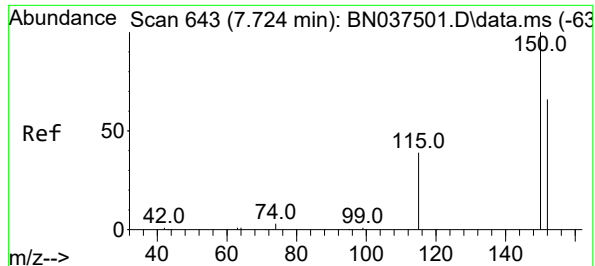
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037504.D
Acq On : 15 Jul 2025 15:38
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jul 15 17:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration

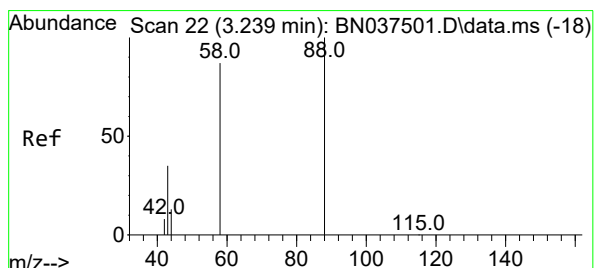
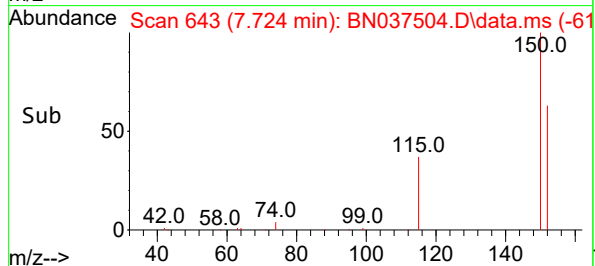
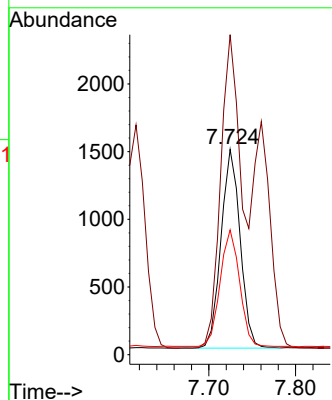
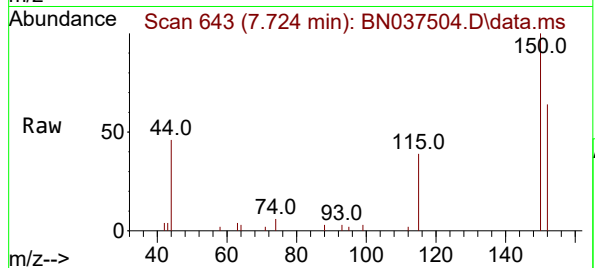




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

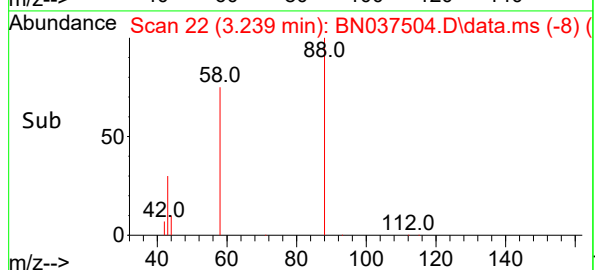
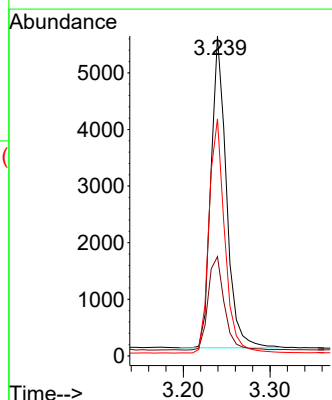
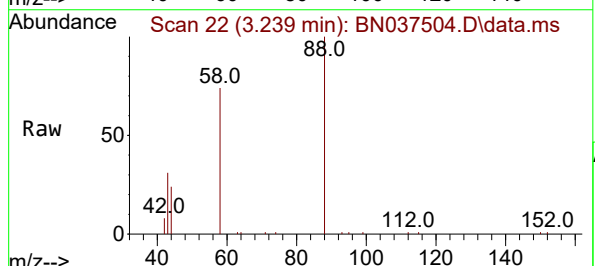
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

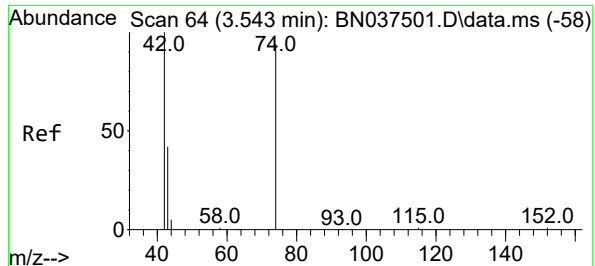
Tgt Ion:152 Resp: 2243
Ion Ratio Lower Upper
152 100
150 155.8 119.8 179.8
115 60.8 49.1 73.7



#2
1,4-Dioxane
Concen: 3.161 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion: 88 Resp: 6815
Ion Ratio Lower Upper
88 100
43 31.7 27.5 41.3
58 77.1 62.7 94.1

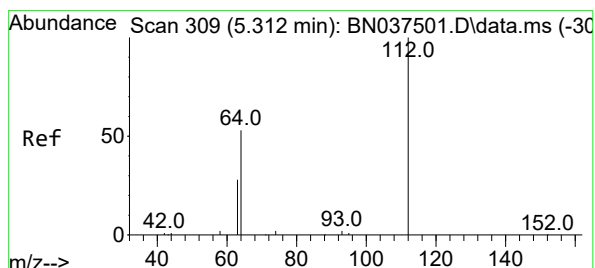
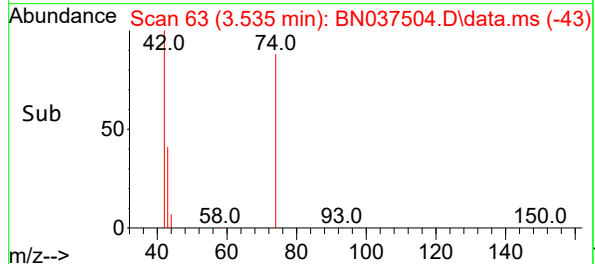
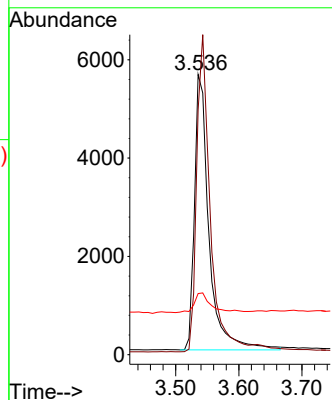
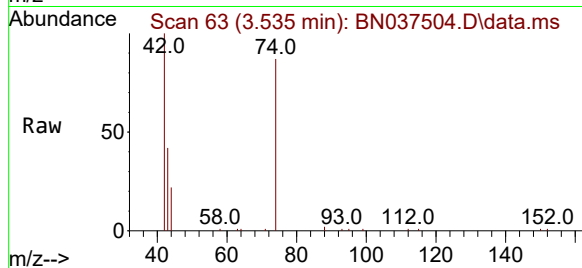




#3
n-Nitrosodimethylamine
Concen: 3.298 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

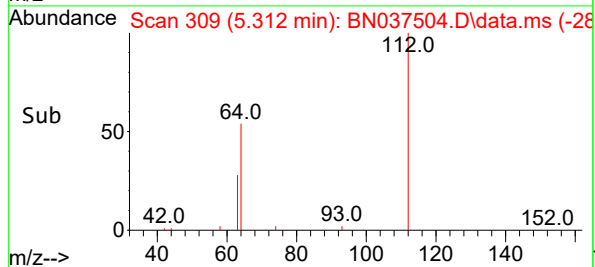
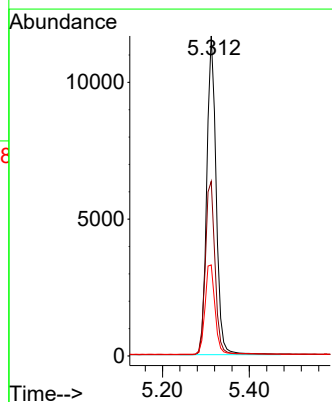
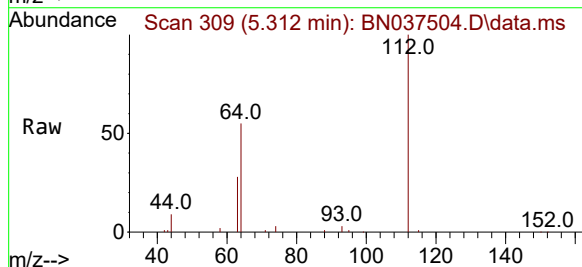
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

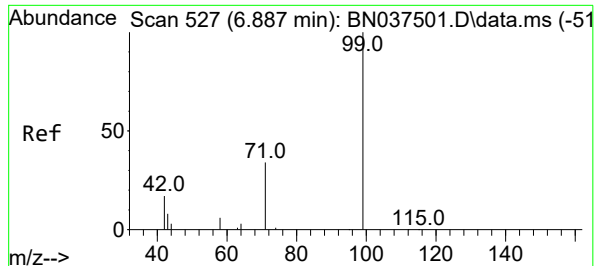
Tgt Ion: 42 Resp: 8946
Ion Ratio Lower Upper
42 100
74 110.0 91.8 137.6
44 8.4 15.0 22.6#



#4
2-Fluorophenol
Concen: 3.140 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion: 112 Resp: 17416
Ion Ratio Lower Upper
112 100
64 56.7 45.1 67.7
63 29.6 23.8 35.8

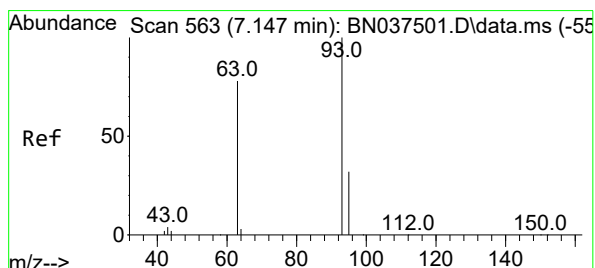
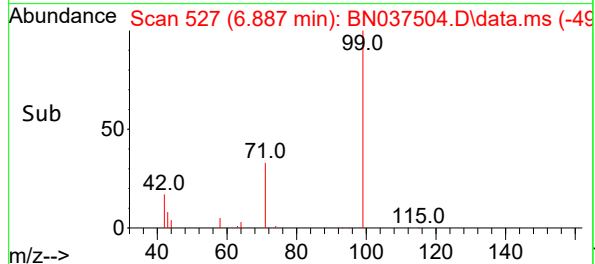
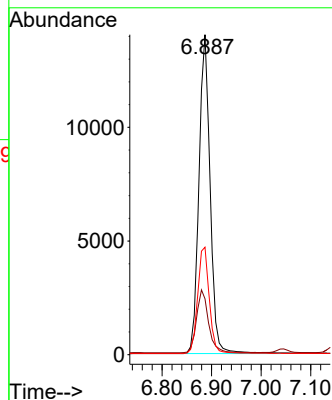
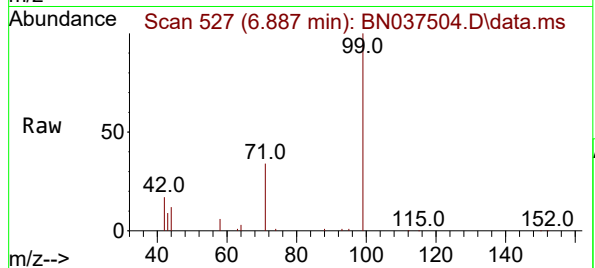




#5
Phenol-d6
Concen: 3.169 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

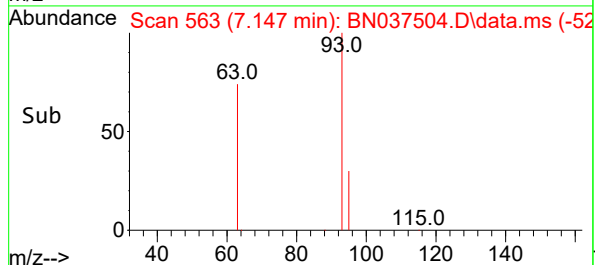
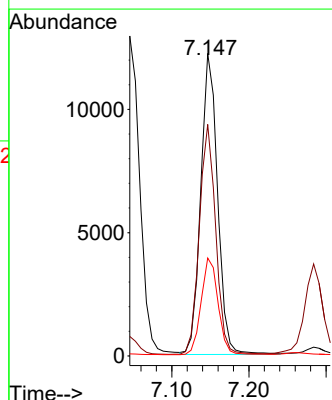
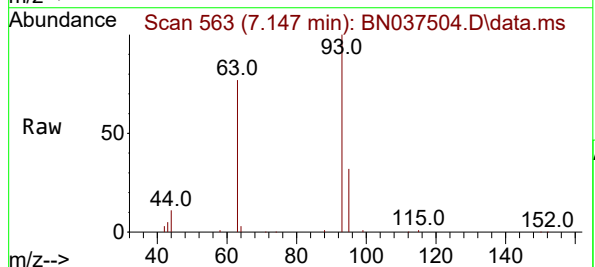
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

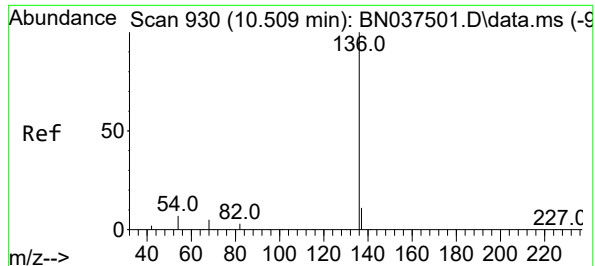
Tgt Ion: 99 Resp: 22047
Ion Ratio Lower Upper
99 100
42 21.2 17.1 25.7
71 34.8 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 3.203 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion: 93 Resp: 18545
Ion Ratio Lower Upper
93 100
63 74.3 58.2 87.4
95 32.2 25.3 37.9

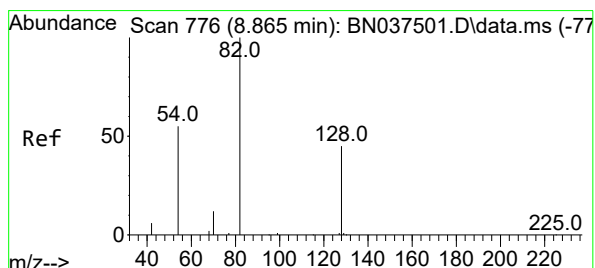
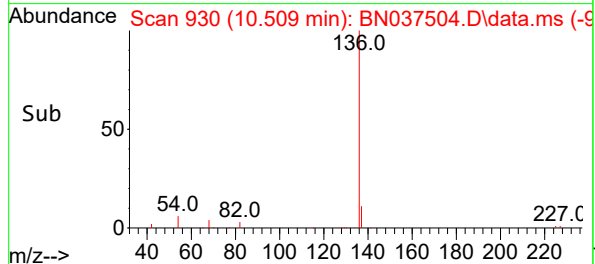
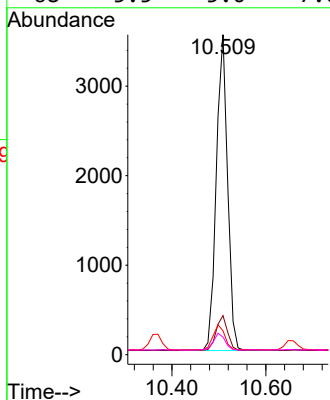
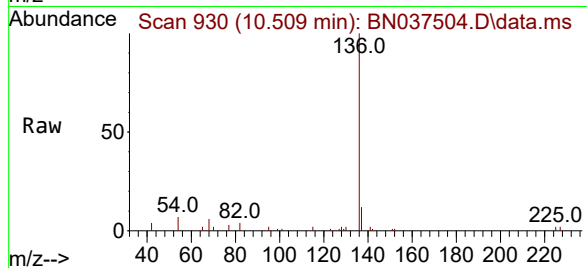




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

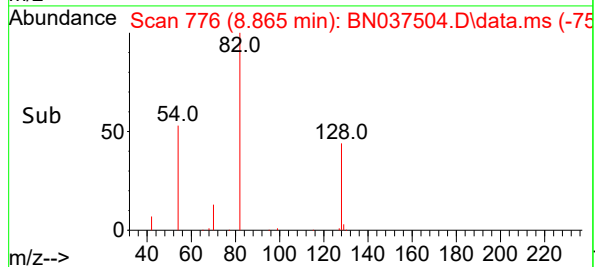
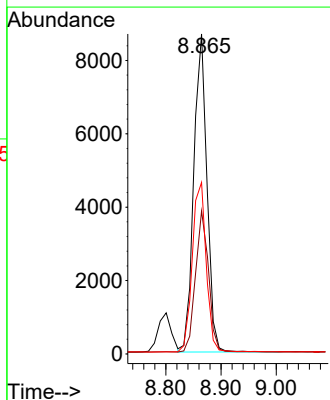
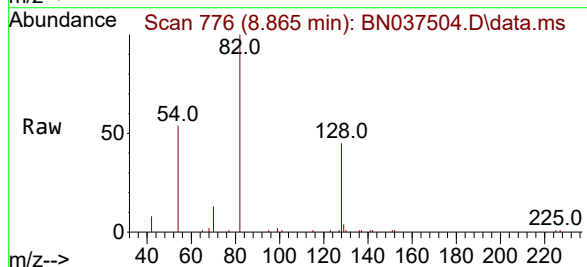
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

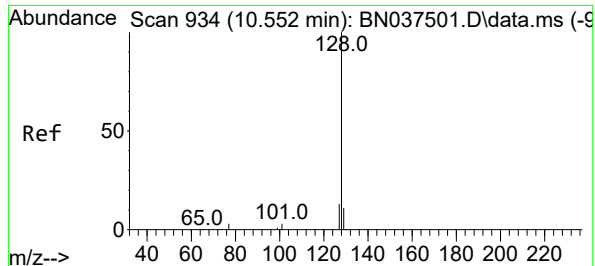
Tgt Ion:	136	Resp:	5878
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	7.5	6.6	9.8
68	5.5	5.0	7.6



#8
Nitrobenzene-d5
Concen: 3.261 ng
RT: 8.865 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion:	82	Resp:	14330
Ion	Ratio	Lower	Upper
82	100		
128	44.7	37.5	56.3
54	53.6	45.3	67.9





#9

Naphthalene

Concen: 3.219 ng

RT: 10.552 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

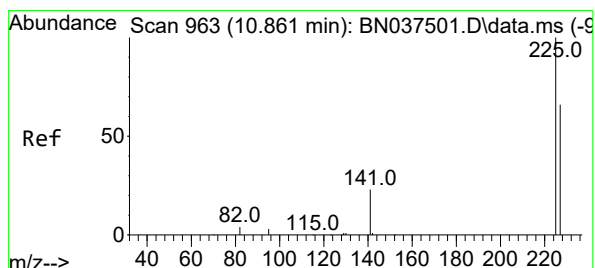
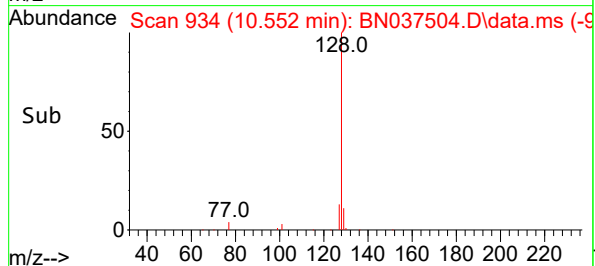
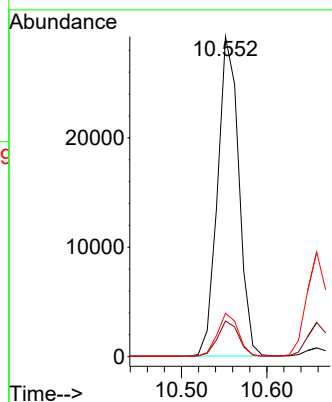
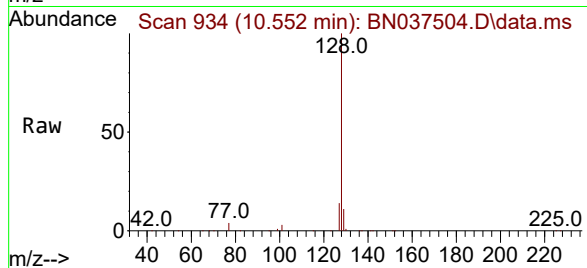
Tgt Ion:128 Resp: 50467

Ion Ratio Lower Upper

128 100

129 11.1 9.7 14.5

127 13.6 11.5 17.3



#10

Hexachlorobutadiene

Concen: 3.206 ng

RT: 10.861 min Scan# 963

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

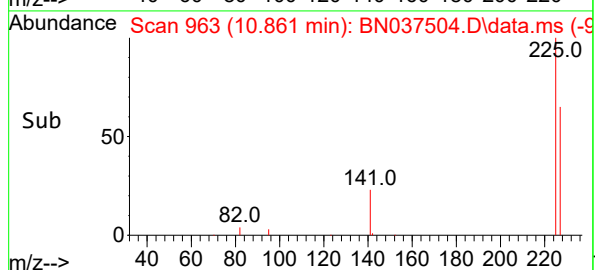
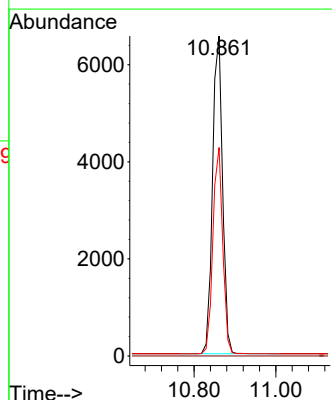
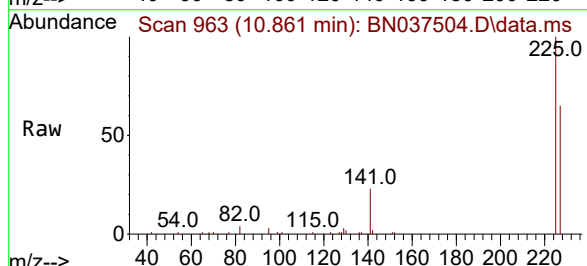
Tgt Ion:225 Resp: 11106

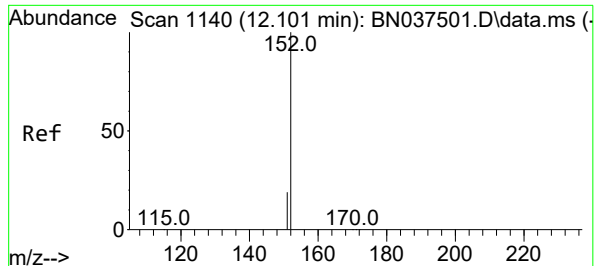
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 51.0 76.4

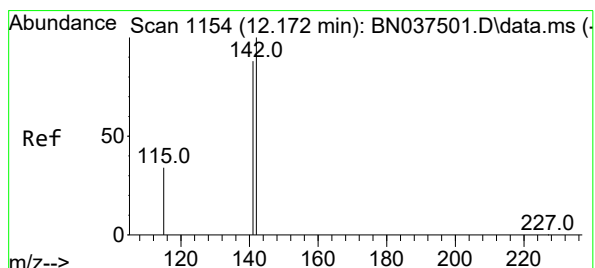
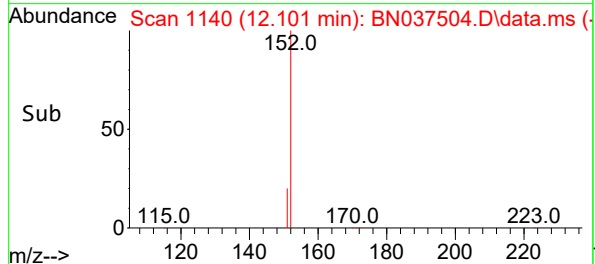
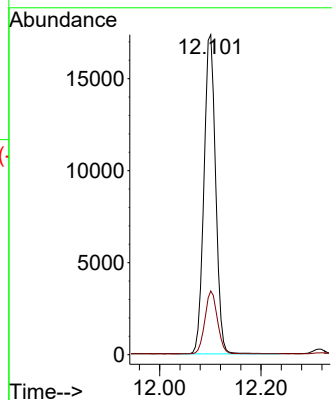
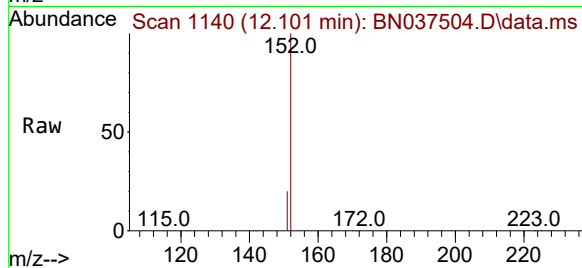




#11
2-Methylnaphthalene-d10
Concen: 3.293 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

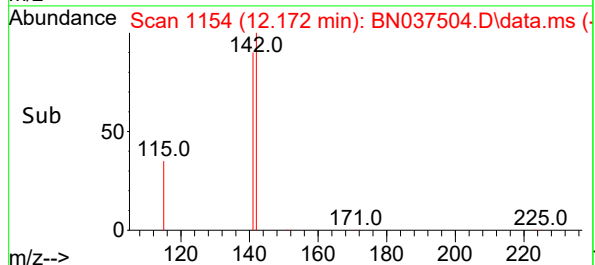
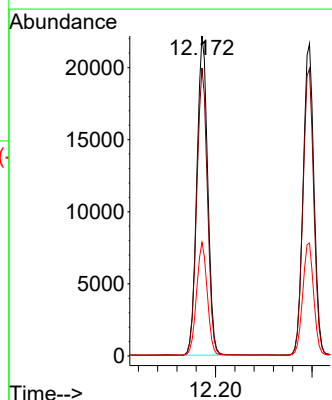
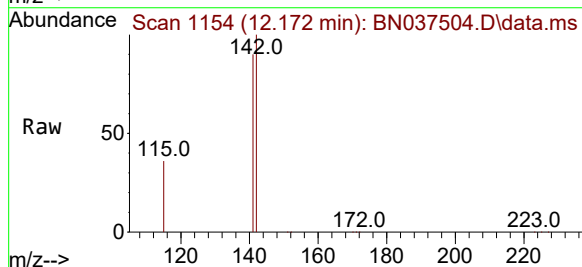
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

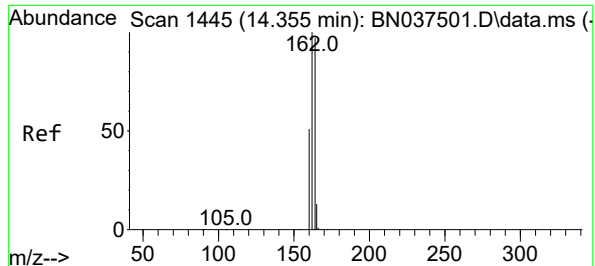
Tgt Ion:152 Resp: 27759
Ion Ratio Lower Upper
152 100
151 21.1 16.8 25.2



#12
2-Methylnaphthalene
Concen: 3.358 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion:142 Resp: 34611
Ion Ratio Lower Upper
142 100
141 90.0 71.0 106.4
115 35.5 29.0 43.4

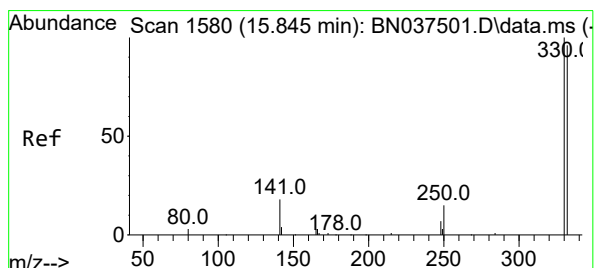
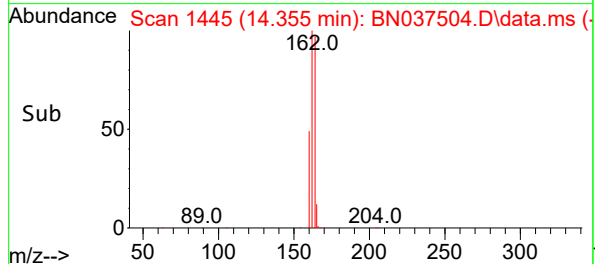
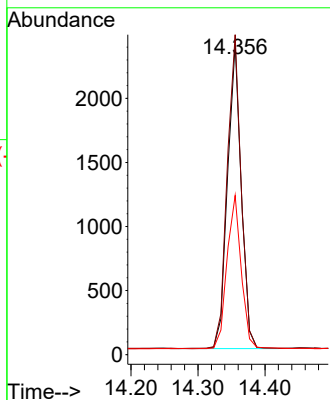
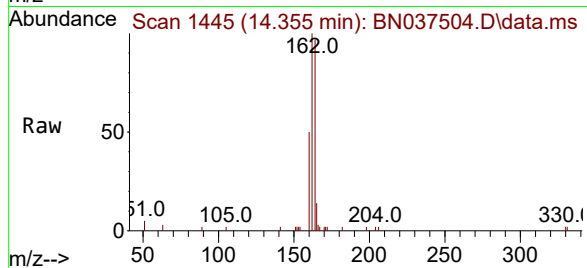




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

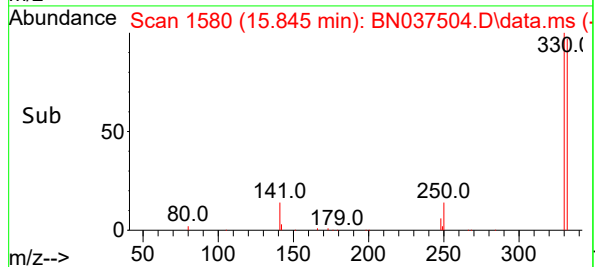
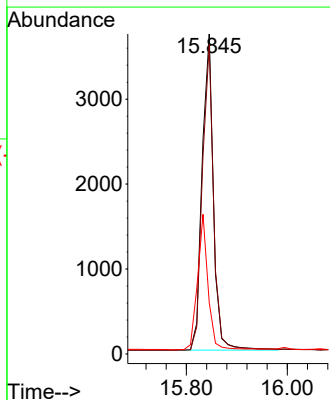
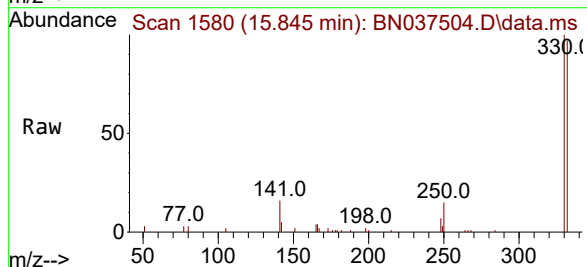
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

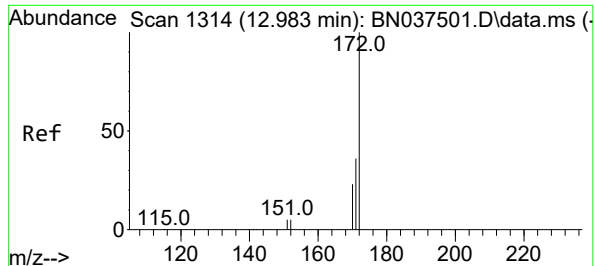
Tgt Ion:164 Resp: 3382
Ion Ratio Lower Upper
164 100
162 102.9 82.0 123.0
160 51.2 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 3.494 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion:330 Resp: 5808
Ion Ratio Lower Upper
330 100
332 95.7 76.1 114.1
141 39.8 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 3.393 ng

RT: 12.983 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

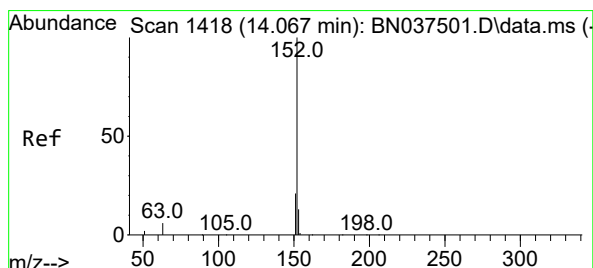
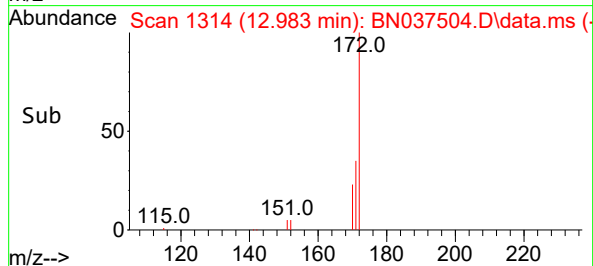
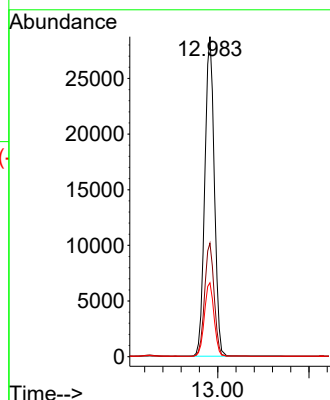
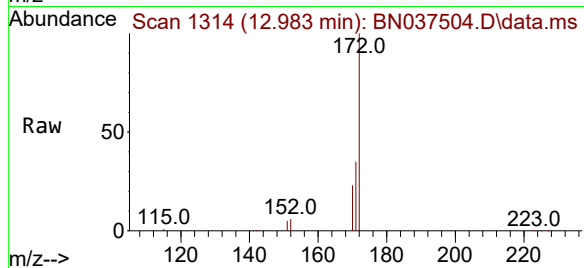
Tgt Ion:172 Resp: 59667

Ion Ratio Lower Upper

172 100

171 35.4 29.4 44.2

170 23.1 19.4 29.0



#16

Acenaphthylene

Concen: 3.385 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

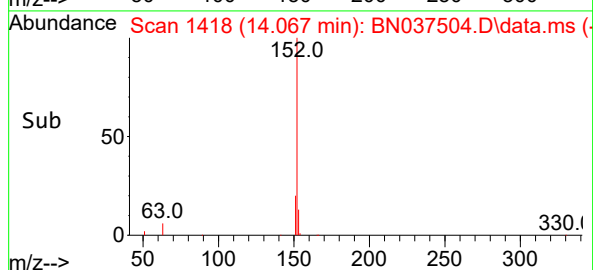
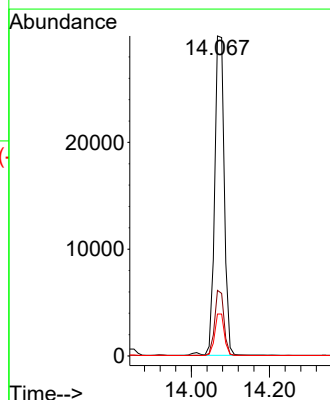
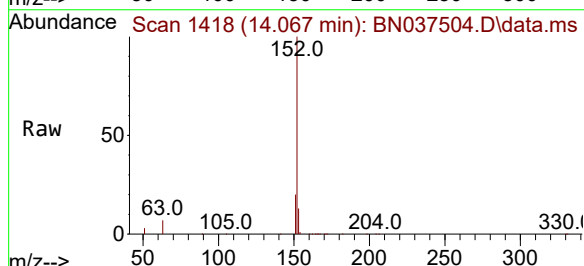
Tgt Ion:152 Resp: 51277

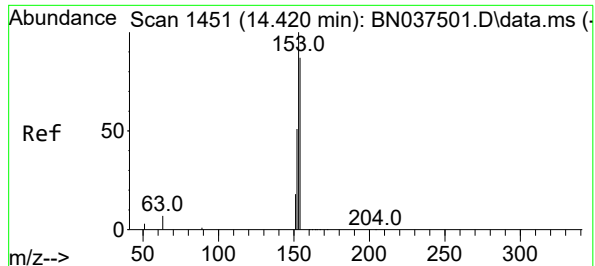
Ion Ratio Lower Upper

152 100

151 19.8 15.9 23.9

153 13.0 10.7 16.1

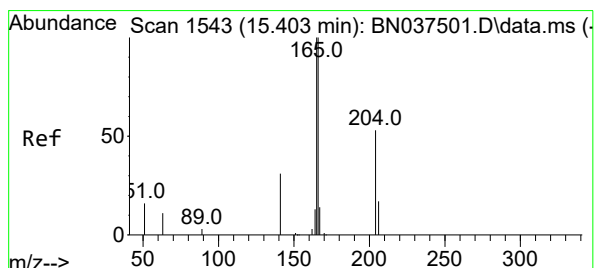
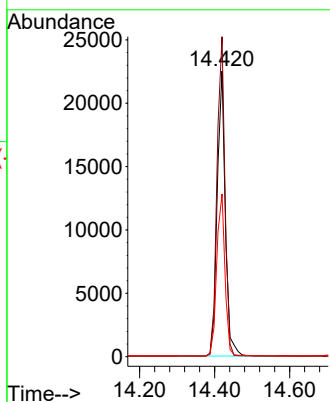
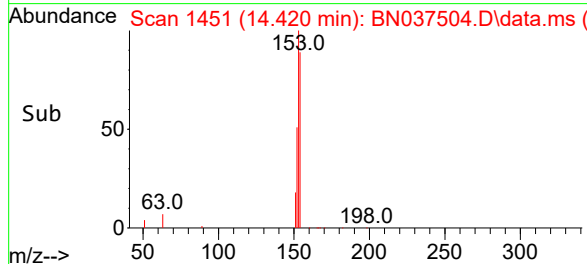
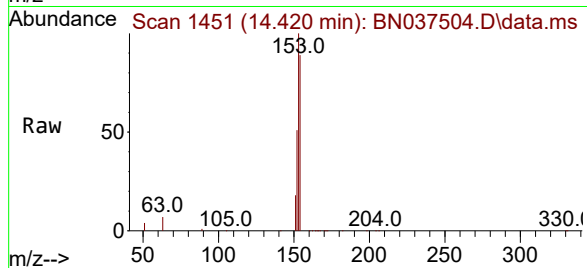




#17
Acenaphthene
Concen: 3.286 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

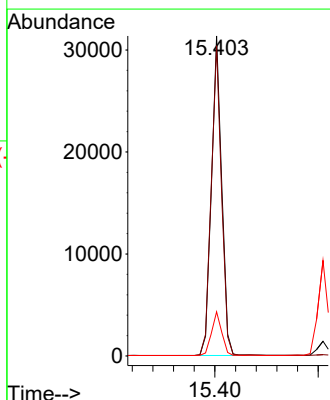
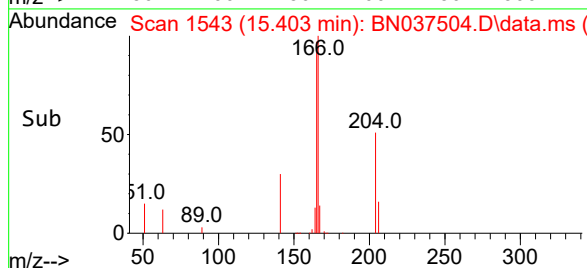
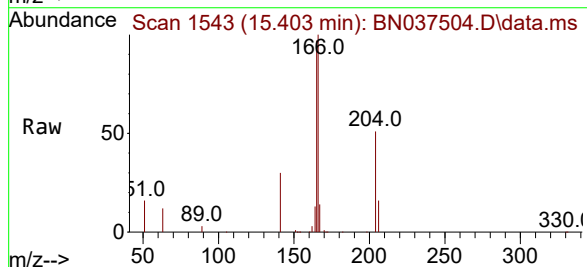
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

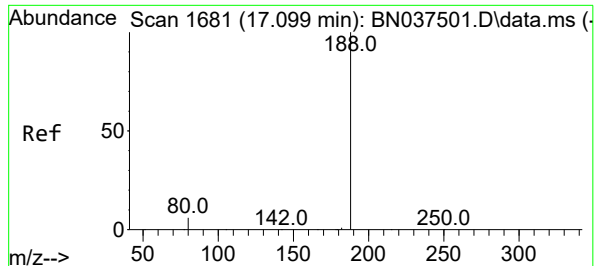
Tgt Ion:154 Resp: 33858
Ion Ratio Lower Upper
154 100
153 109.6 89.2 133.8
152 57.7 48.0 72.0



#18
Fluorene
Concen: 3.276 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion:166 Resp: 43450
Ion Ratio Lower Upper
166 100
165 97.5 78.1 117.1
167 13.4 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

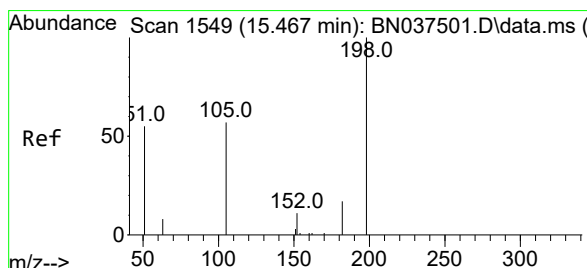
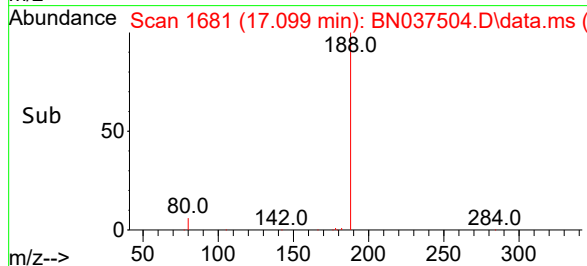
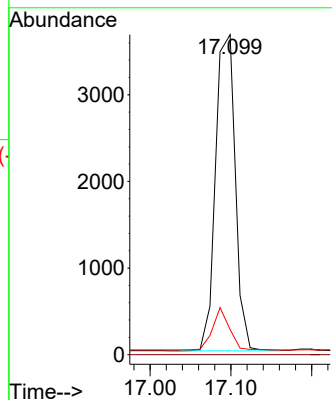
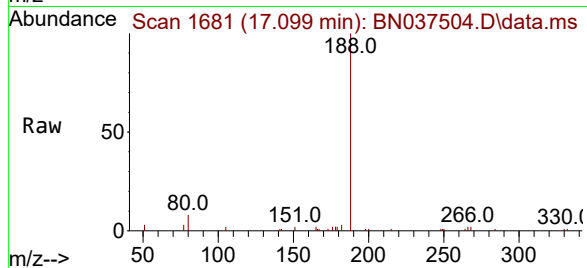
Tgt Ion:188 Resp: 6204

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.9 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.233 ng

RT: 15.478 min Scan# 1550

Delta R.T. 0.011 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

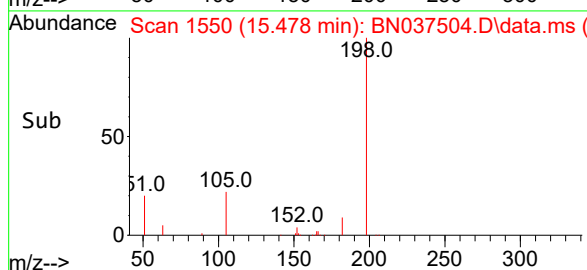
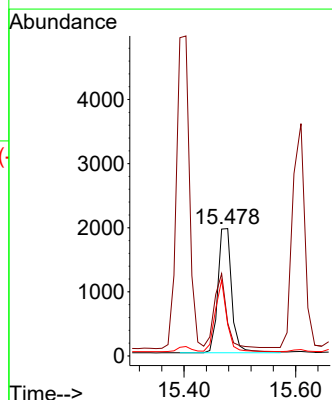
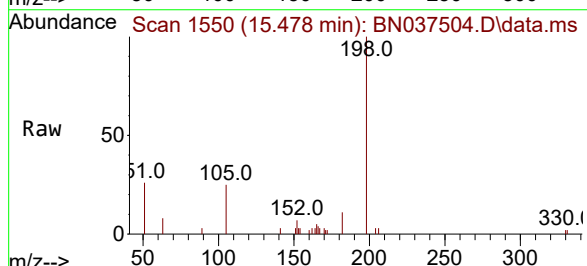
Tgt Ion:198 Resp: 3484

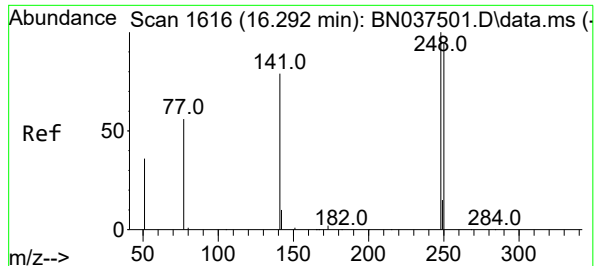
Ion Ratio Lower Upper

198 100

51 25.8 88.5 132.7#

105 24.7 61.2 91.8#

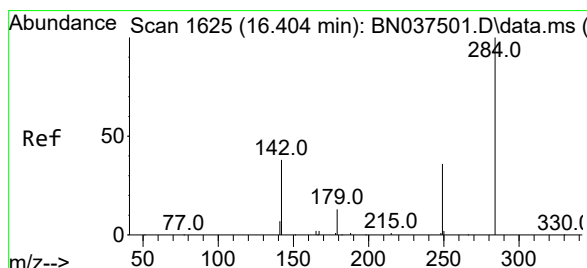
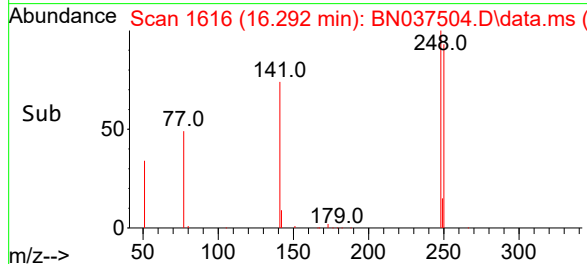
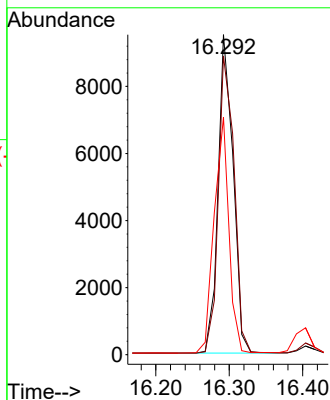
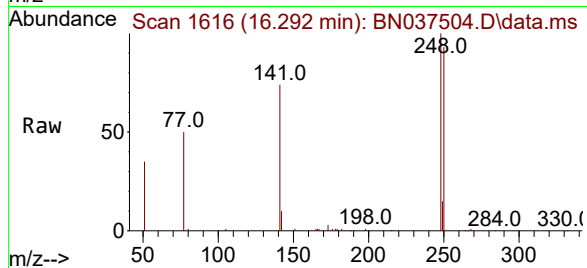




#21
4-Bromophenyl-phenylether
Concen: 3.395 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

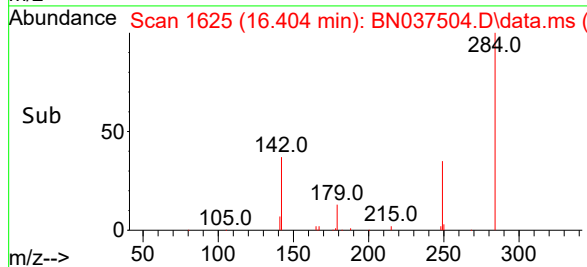
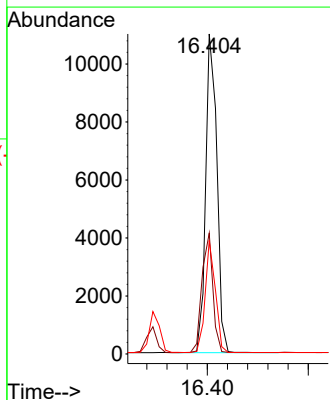
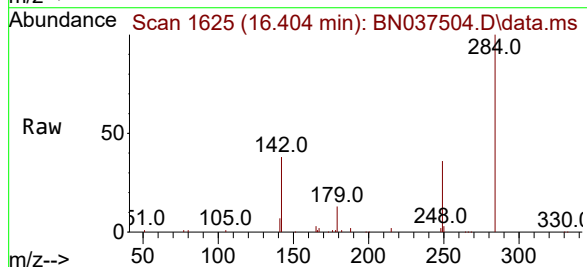
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

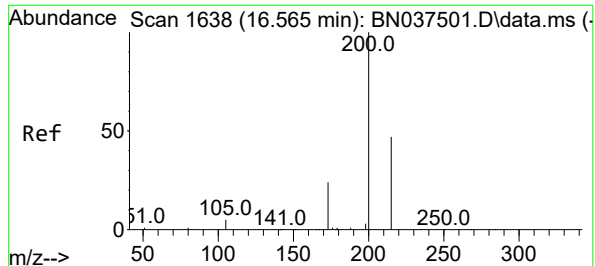
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.2	114.2
141	74.3	63.9	95.9



#22
Hexachlorobenzene
Concen: 3.289 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.7	28.9	43.3
249	32.2	25.8	38.6





#23

Atrazine

Concen: 3.584 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

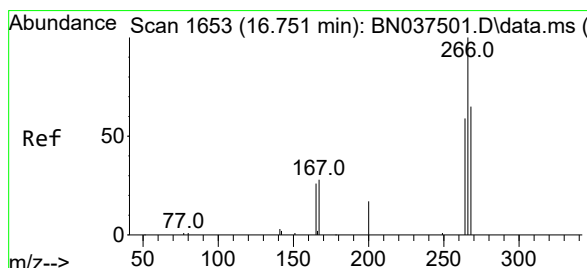
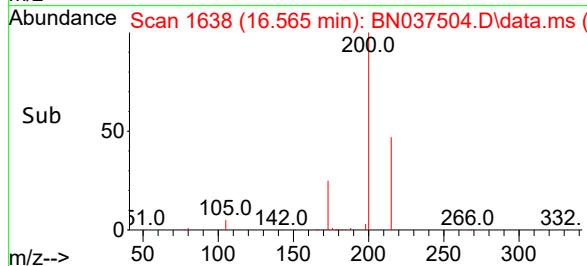
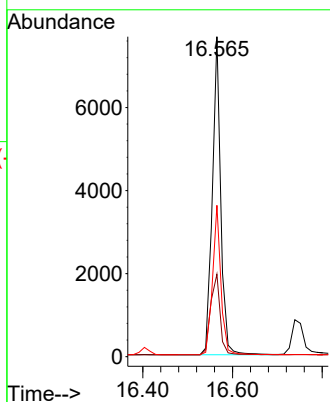
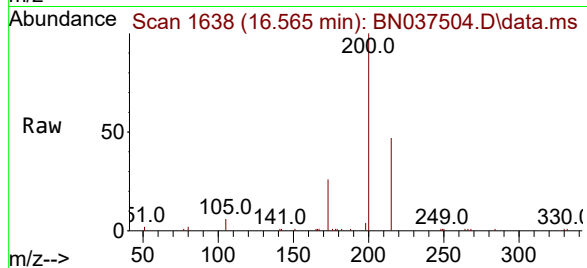
Tgt Ion:200 Resp: 9939

Ion Ratio Lower Upper

200 100

173 25.8 23.2 34.8

215 47.3 40.2 60.4



#24

Pentachlorophenol

Concen: 3.654 ng

RT: 16.751 min Scan# 1653

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

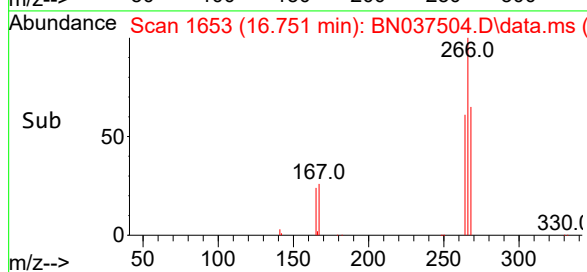
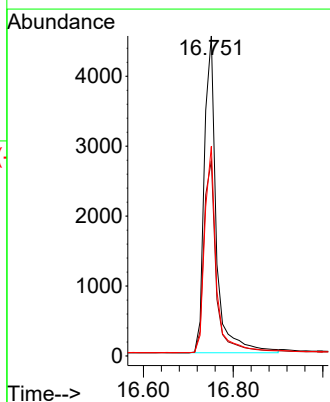
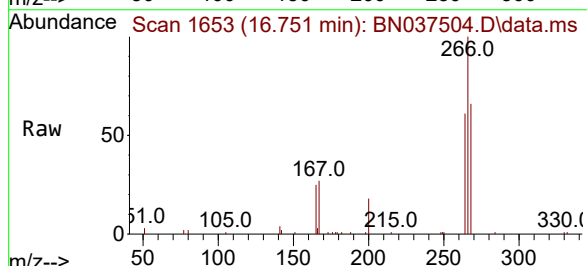
Tgt Ion:266 Resp: 8417

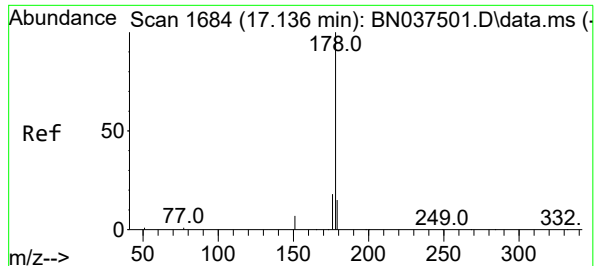
Ion Ratio Lower Upper

266 100

264 62.4 49.3 73.9

268 63.0 51.6 77.4





#25

Phenanthrene

Concen: 3.333 ng

RT: 17.136 min Scan# 1684

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

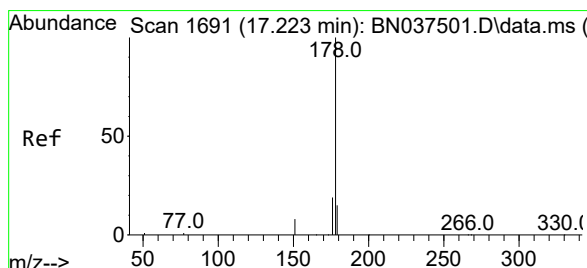
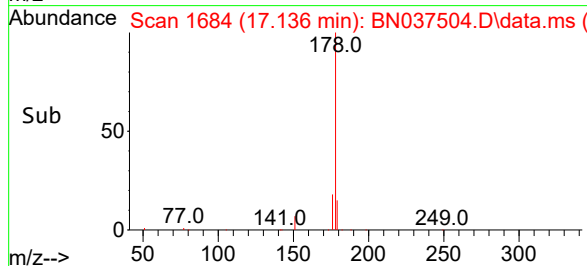
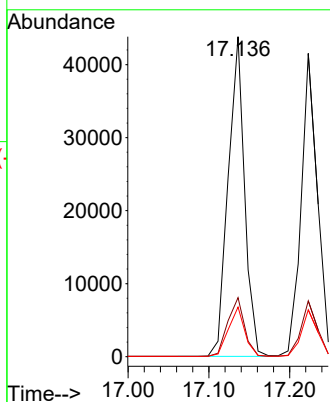
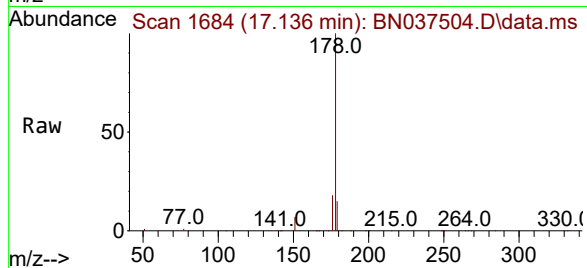
Tgt Ion:178 Resp: 61959

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.3 12.2 18.2



#26

Anthracene

Concen: 3.441 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

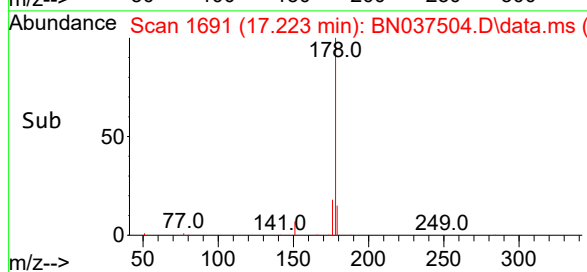
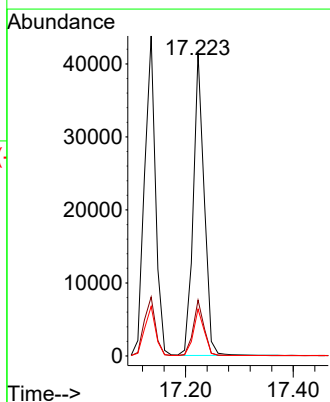
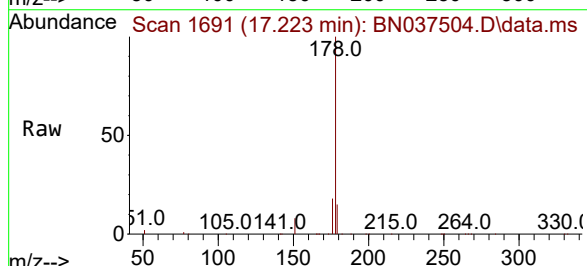
Tgt Ion:178 Resp: 58358

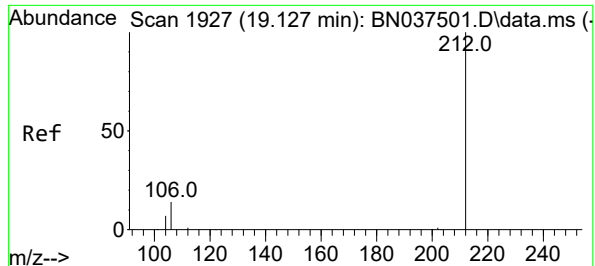
Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.257 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

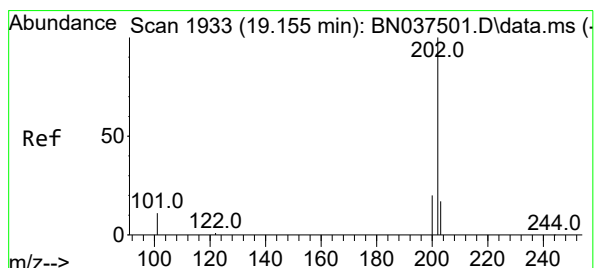
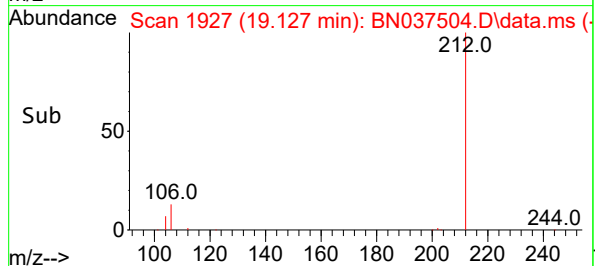
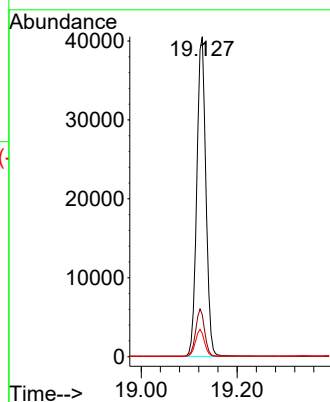
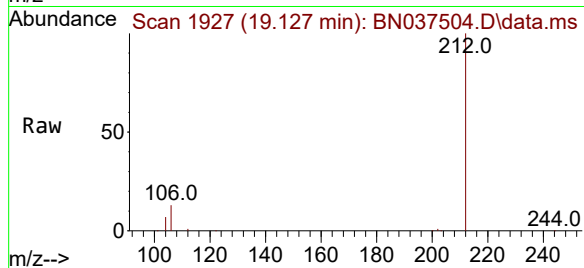
Tgt Ion:212 Resp: 53521

Ion Ratio Lower Upper

212 100

106 14.6 12.2 18.4

104 8.2 6.7 10.1



#28

Fluoranthene

Concen: 3.313 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

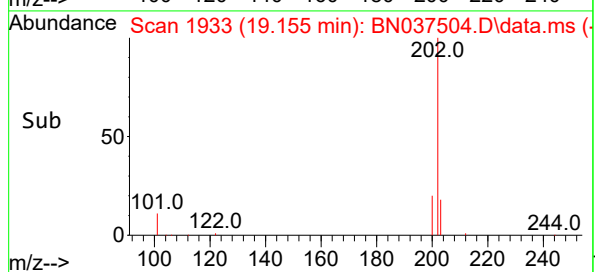
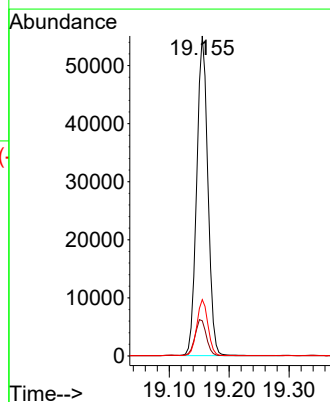
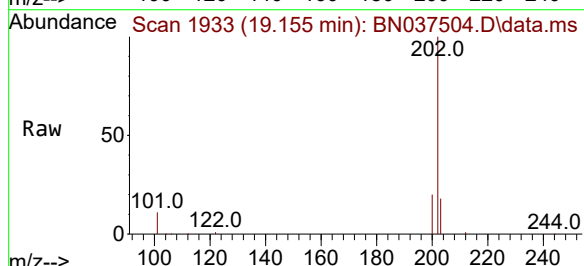
Tgt Ion:202 Resp: 71018

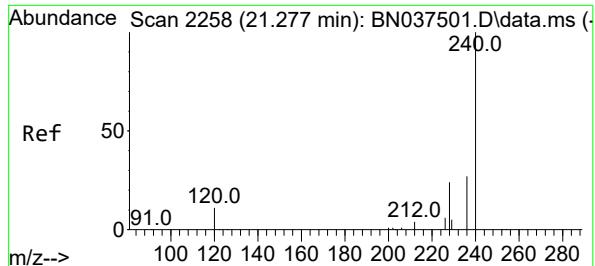
Ion Ratio Lower Upper

202 100

101 11.7 9.8 14.6

203 17.4 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

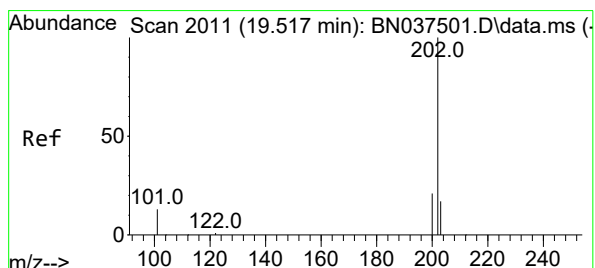
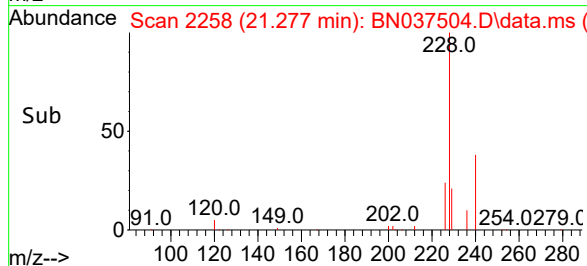
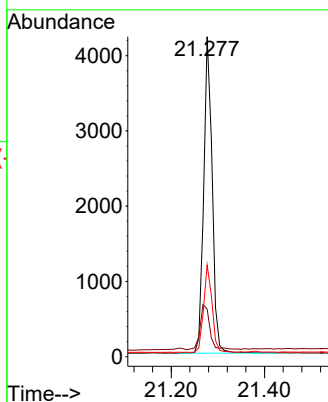
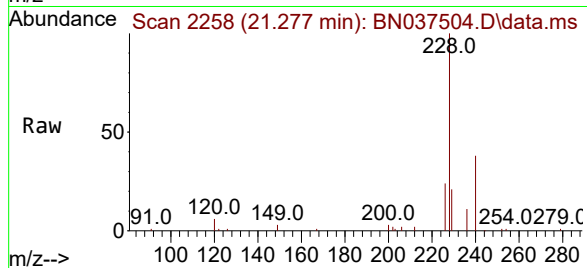
Tgt Ion:240 Resp: 5331

Ion Ratio Lower Upper

240 100

120 14.9 10.7 16.1

236 28.6 22.6 33.8



#30

Pyrene

Concen: 3.306 ng

RT: 19.517 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

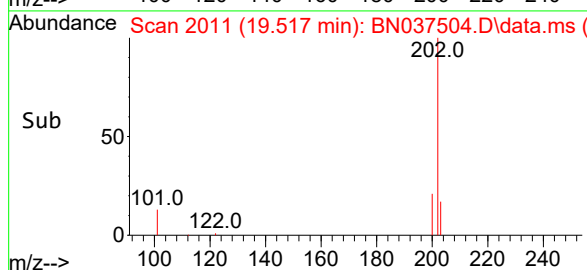
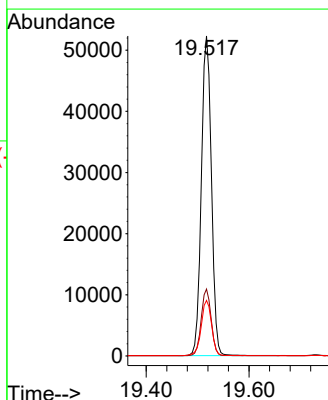
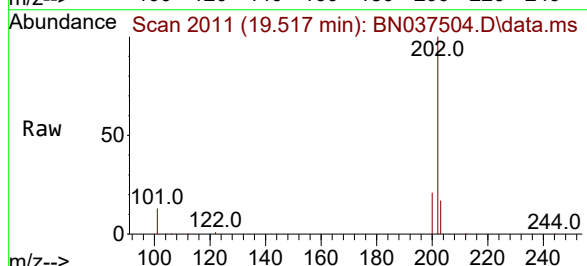
Tgt Ion:202 Resp: 71002

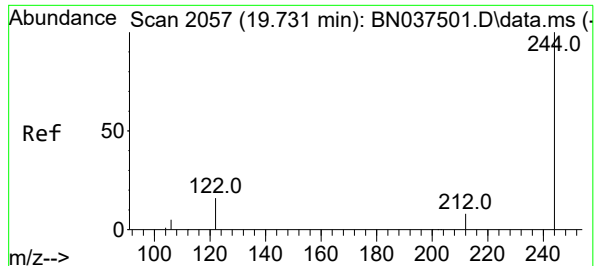
Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

203 17.8 14.3 21.5

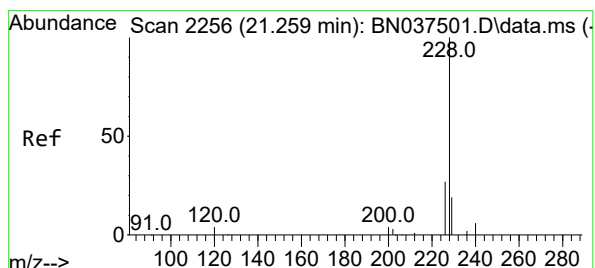
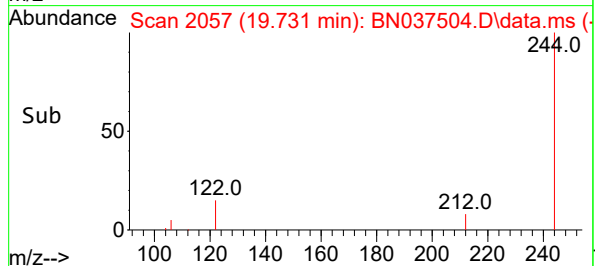
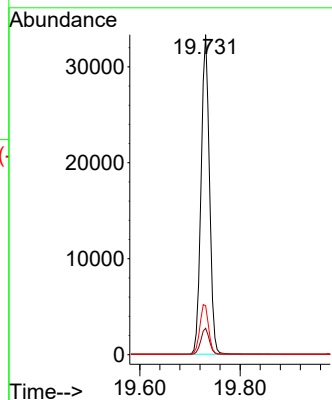
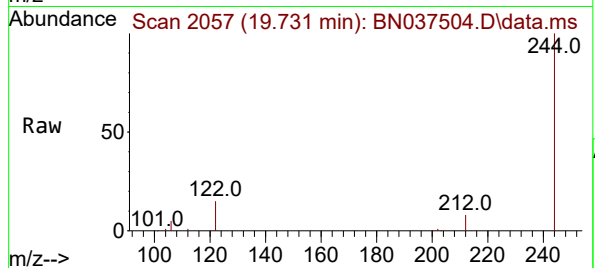




#31
Terphenyl-d14
Concen: 3.357 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

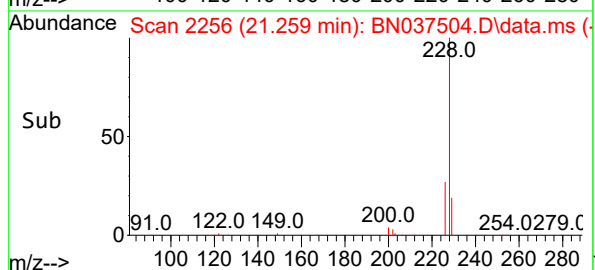
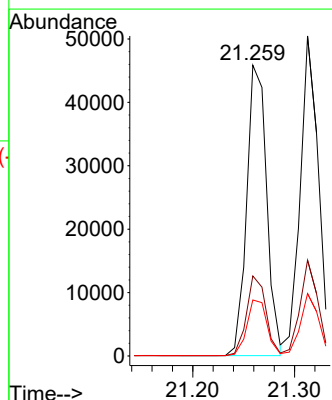
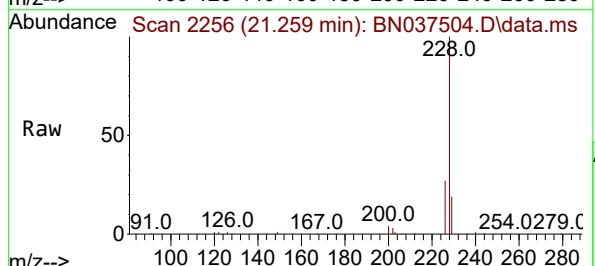
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

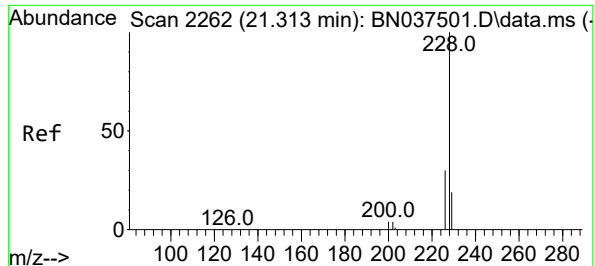
Tgt Ion:244 Resp: 38458
Ion Ratio Lower Upper
244 100
212 8.3 7.4 11.2
122 15.3 13.6 20.4



#32
Benzo(a)anthracene
Concen: 3.343 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion:228 Resp: 62418
Ion Ratio Lower Upper
228 100
226 27.5 21.9 32.9
229 19.2 15.8 23.8





#33

Chrysene

Concen: 3.268 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

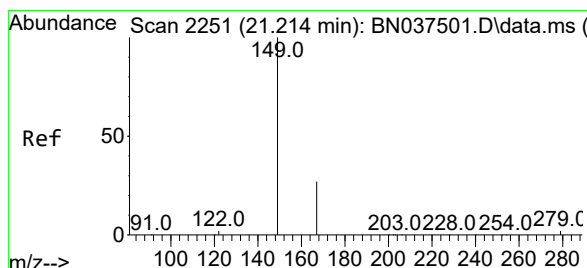
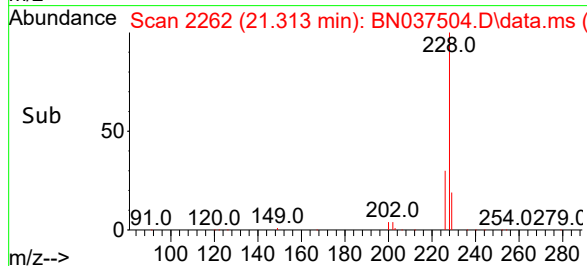
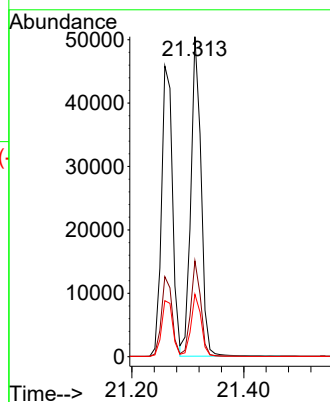
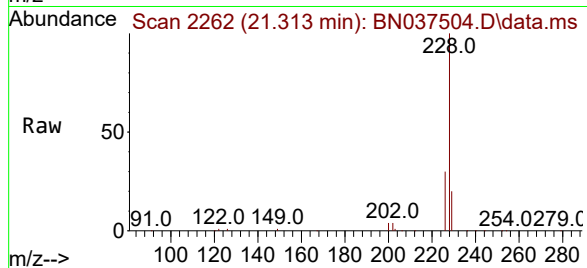
Tgt Ion:228 Resp: 63542

Ion Ratio Lower Upper

228 100

226 30.0 24.2 36.4

229 19.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.519 ng

RT: 21.223 min Scan# 2252

Delta R.T. 0.009 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

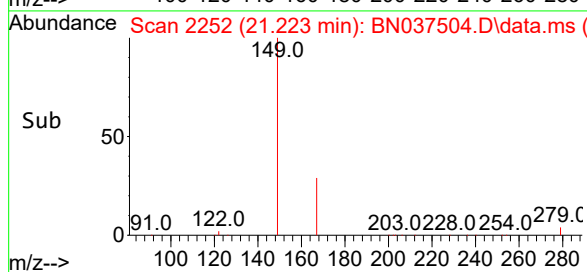
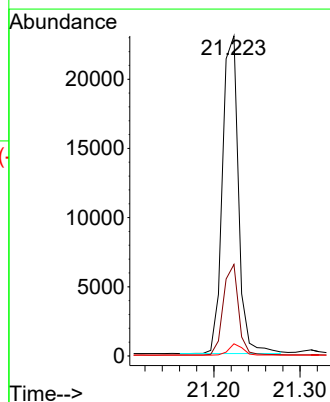
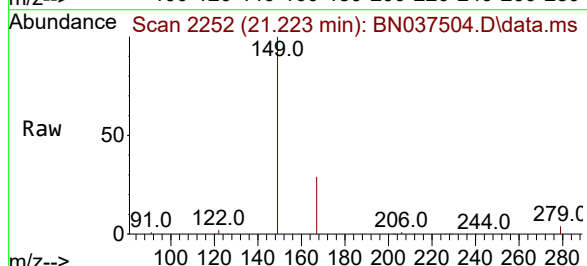
Tgt Ion:149 Resp: 29561

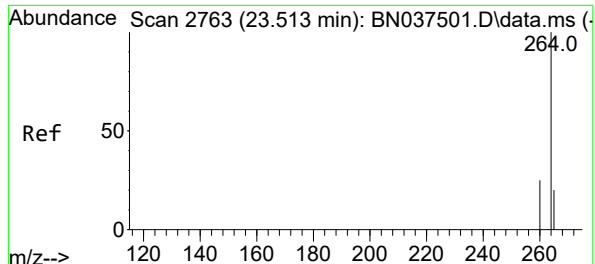
Ion Ratio Lower Upper

149 100

167 27.0 21.8 32.8

279 3.1 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.519 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

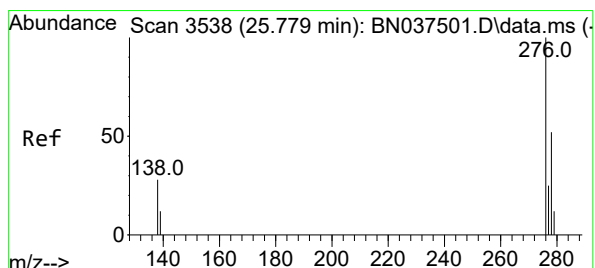
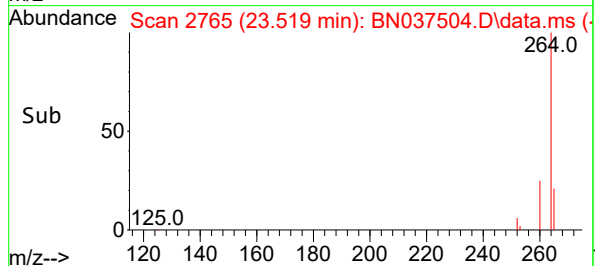
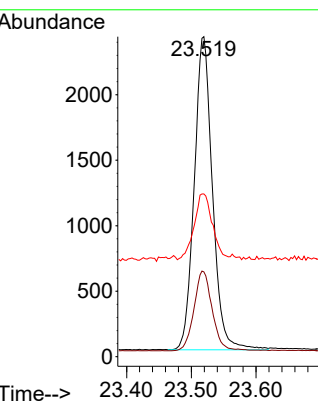
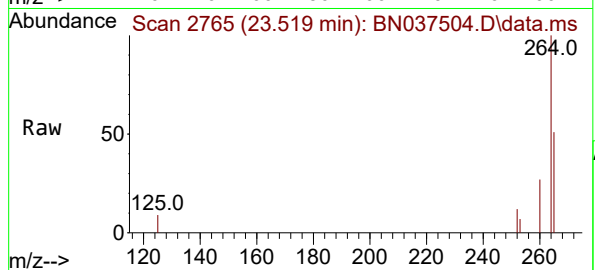
Tgt Ion:264 Resp: 4672

Ion Ratio Lower Upper

264 100

260 26.5 21.2 31.8

265 50.8 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.467 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.009 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

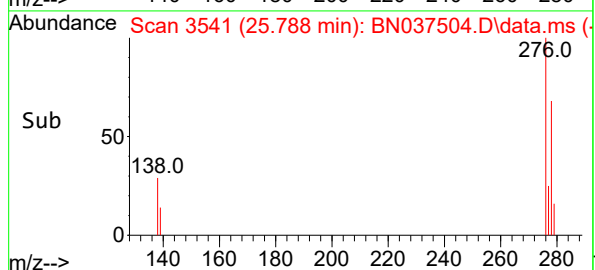
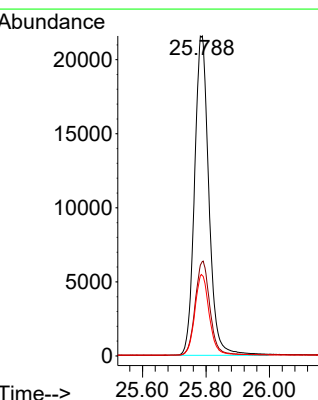
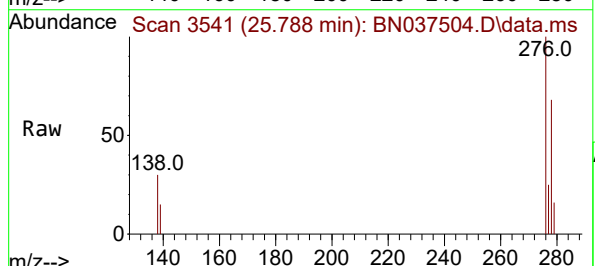
Tgt Ion:276 Resp: 67476

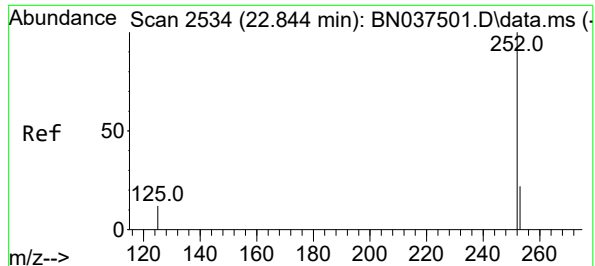
Ion Ratio Lower Upper

276 100

138 30.2 24.0 36.0

277 25.2 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 3.407 ng

RT: 22.847 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

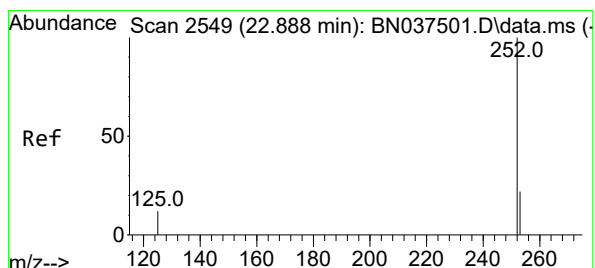
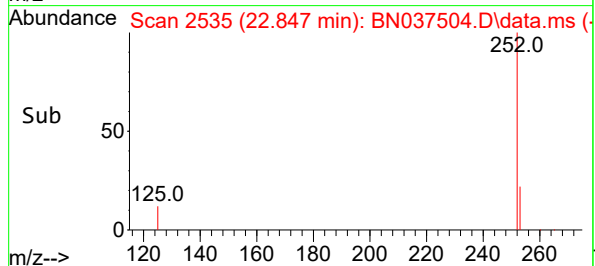
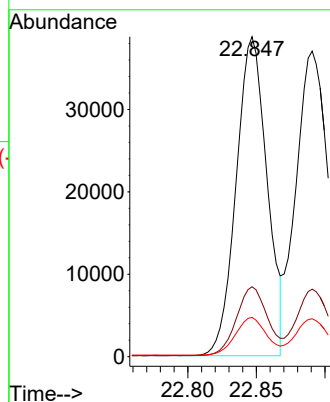
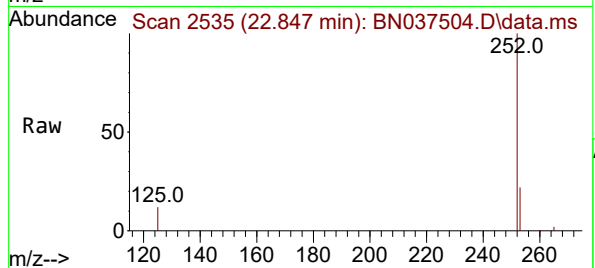
Tgt Ion:252 Resp: 60420

Ion Ratio Lower Upper

252 100

253 21.9 19.5 29.3

125 12.3 13.0 19.6#



#38

Benzo(k)fluoranthene

Concen: 3.450 ng

RT: 22.891 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

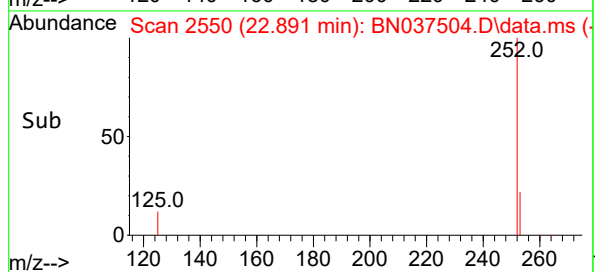
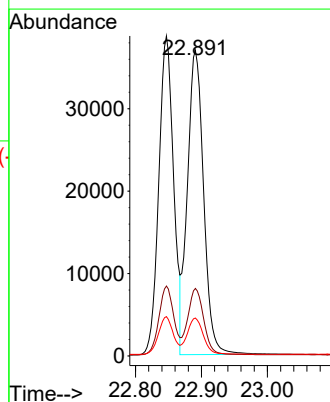
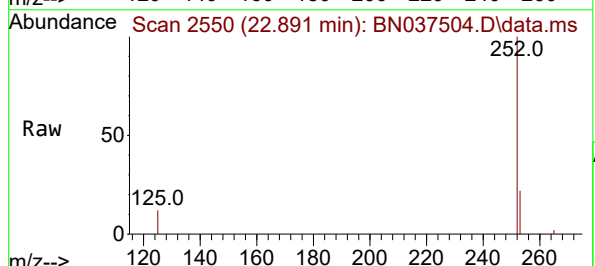
Tgt Ion:252 Resp: 63137

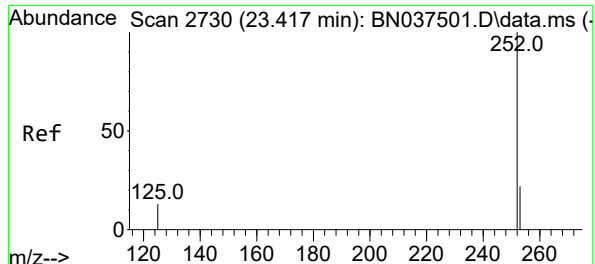
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

125 12.4 13.1 19.7#





#39

Benzo(a)pyrene

Concen: 3.459 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

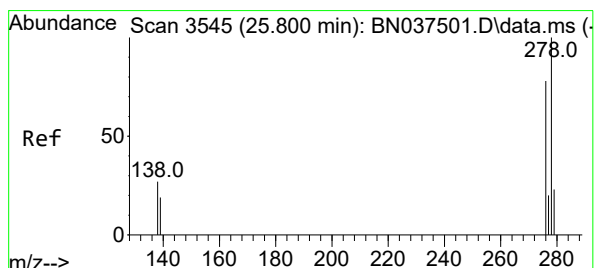
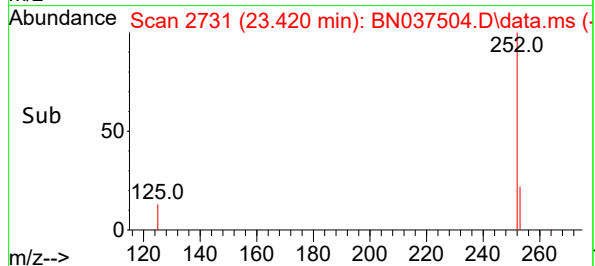
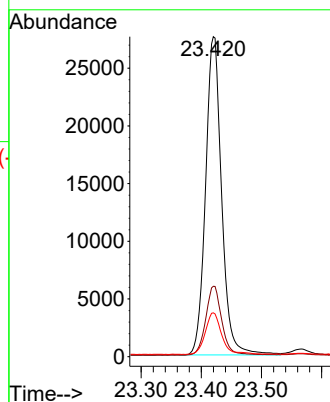
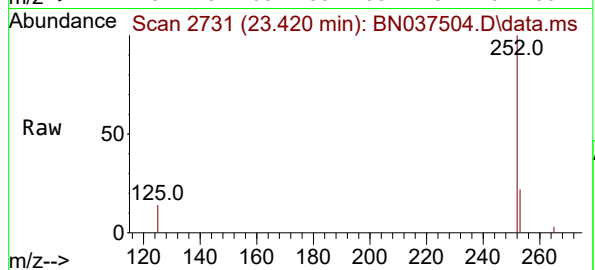
Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252	Resp:	51171
Ion Ratio	Lower	Upper
252	100	
253	22.0	19.9 29.9
125	13.7	15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 3.516 ng

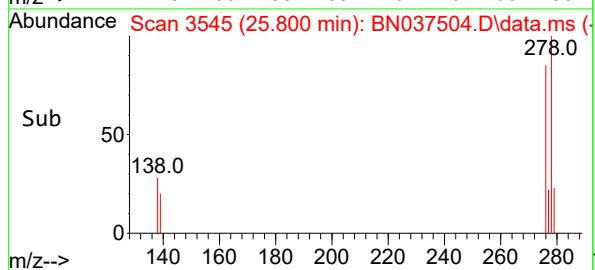
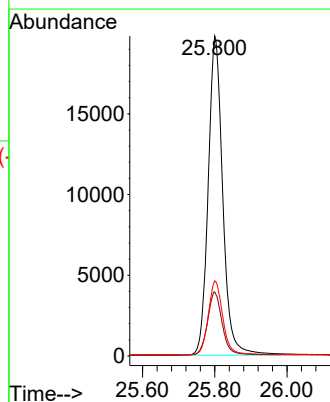
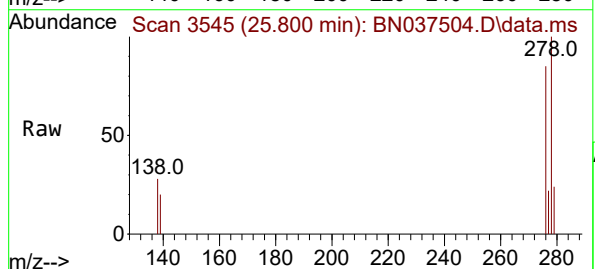
RT: 25.800 min Scan# 3545

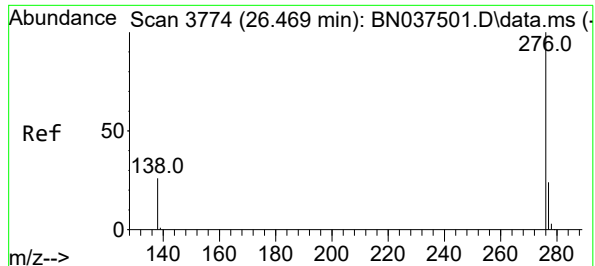
Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Tgt Ion:278	Resp:	55412
Ion Ratio	Lower	Upper
278	100	
139	20.0	17.5 26.3
279	23.5	21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 3.430 ng

RT: 26.472 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037504.D

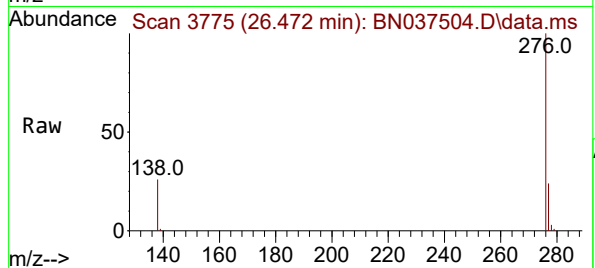
Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



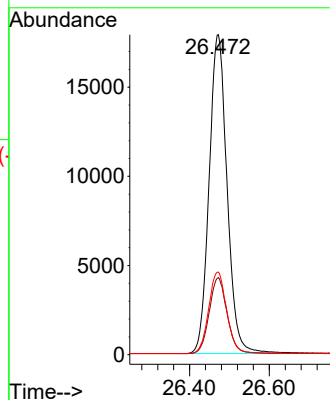
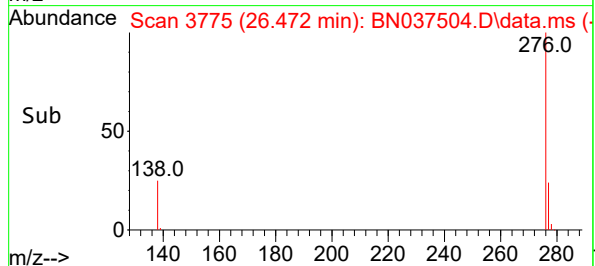
Tgt Ion:276 Resp: 55959

Ion Ratio Lower Upper

276 100

277 24.1 20.9 31.3

138 25.8 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037505.D
 Acq On : 15 Jul 2025 16:14
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jul 15 17:28:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 16:45:15 2025
 Response via : Initial Calibration

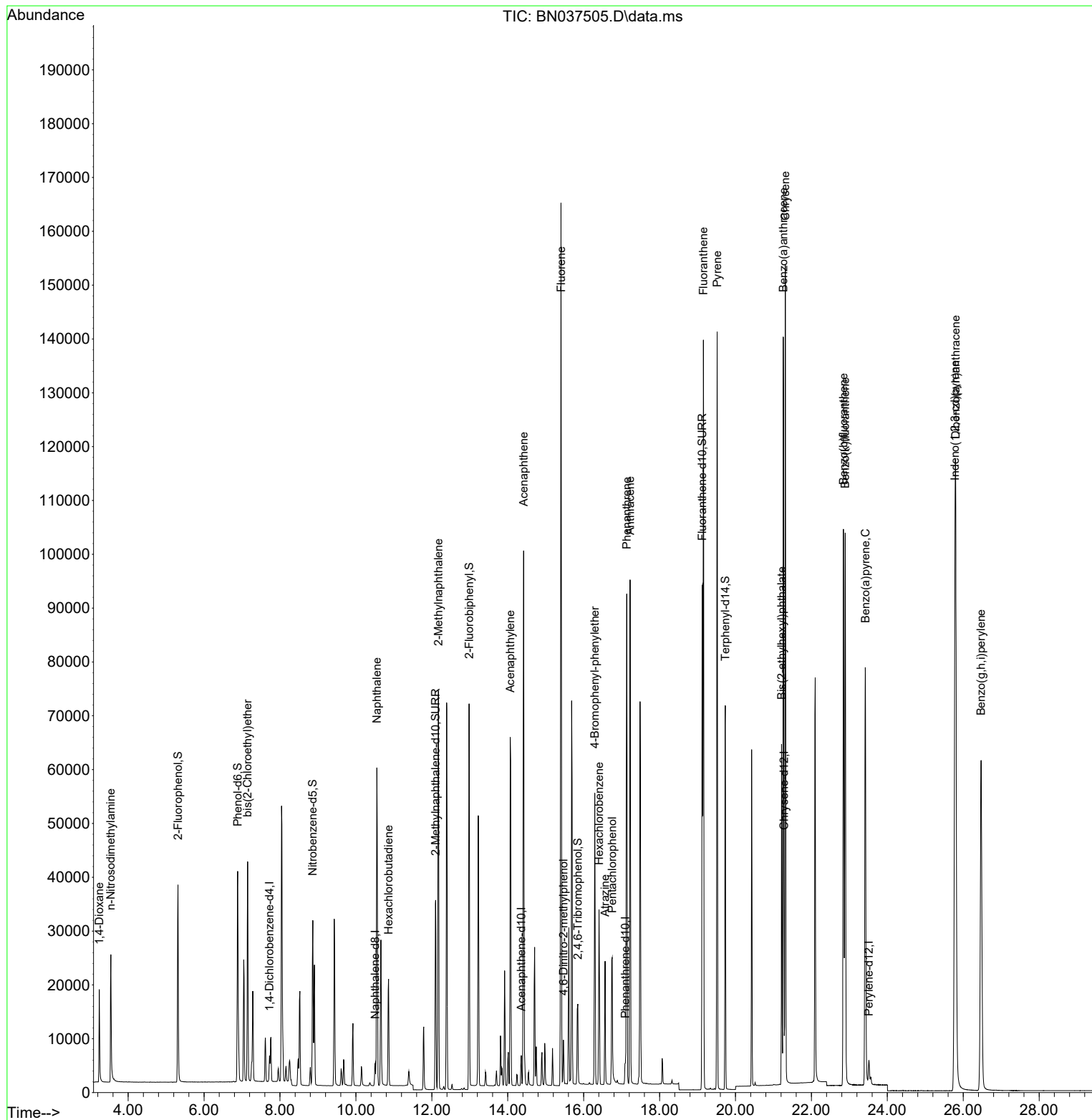
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2230	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5395	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	3026	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	5918	0.400	ng	0.00
29) Chrysene-d12	21.277	240	6176	0.400	ng	0.00
35) Perylene-d12	23.516	264	5810	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	28715	5.207	ng	0.00
5) Phenol-d6	6.887	99	35549	5.139	ng	0.00
8) Nitrobenzene-d5	8.865	82	22676	5.623	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	47958	6.198	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	9399	6.319	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	90652	5.761	ng	0.00
27) Fluoranthene-d10	19.127	212	102473	6.537	ng	0.00
31) Terphenyl-d14	19.731	244	66764	5.031	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.240	88	9864	4.601	ng	97
3) n-Nitrosodimethylamine	3.543	42	13961	5.177	ng	# 93
6) bis(2-Chloroethyl)ether	7.147	93	28323	4.920	ng	99
9) Naphthalene	10.552	128	75946	5.279	ng	97
10) Hexachlorobutadiene	10.861	225	16562	5.208	ng	# 100
12) 2-Methylnaphthalene	12.172	142	50973	5.388	ng	99
16) Acenaphthylene	14.067	152	74932	5.528	ng	99
17) Acenaphthene	14.420	154	49935	5.417	ng	96
18) Fluorene	15.403	166	64957	5.474	ng	97
20) 4,6-Dinitro-2-methylph...	15.467	198	5939	4.991	ng	# 58
21) 4-Bromophenyl-phenylether	16.292	248	20263	5.344	ng	95
22) Hexachlorobenzene	16.404	284	25010	5.106	ng	99
23) Atrazine	16.565	200	16269	6.150	ng	95
24) Pentachlorophenol	16.751	266	13954	6.351	ng	99
25) Phenanthrene	17.136	178	94181	5.312	ng	100
26) Anthracene	17.223	178	91147	5.634	ng	100
28) Fluoranthene	19.155	202	117280	5.736	ng	99
30) Pyrene	19.517	202	118804	4.775	ng	100
32) Benzo(a)anthracene	21.259	228	117117	5.414	ng	99
33) Chrysene	21.313	228	117985	5.239	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	60154	6.181	ng	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	144593	5.975	ng	99
37) Benzo(b)fluoranthene	22.844	252	122848	5.570	ng	# 93
38) Benzo(k)fluoranthene	22.891	252	125226	5.503	ng	# 93
39) Benzo(a)pyrene	23.420	252	106654	5.797	ng	# 91
40) Dibenzo(a,h)anthracene	25.800	278	118164	6.029	ng	95
41) Benzo(g,h,i)perylene	26.469	276	120757	5.952	ng	95

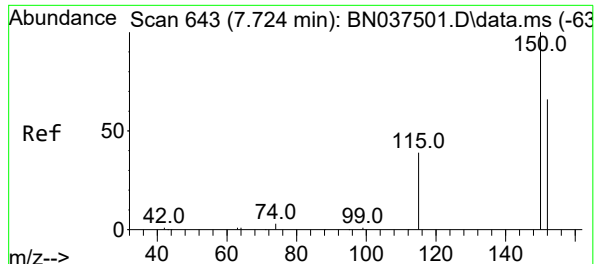
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037505.D
Acq On : 15 Jul 2025 16:14
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jul 15 17:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration

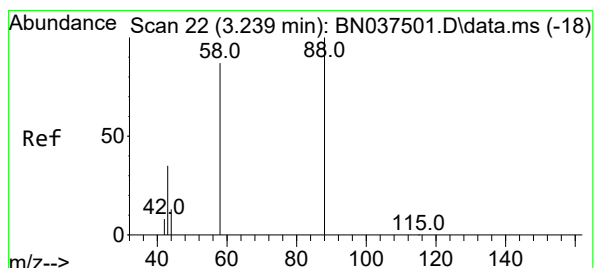
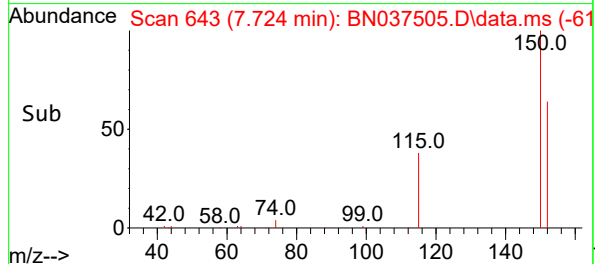
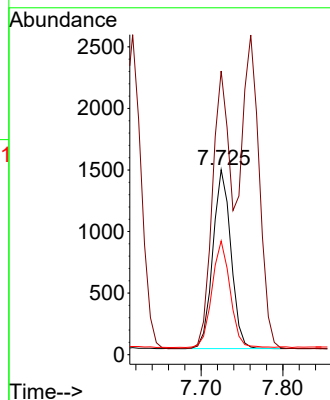
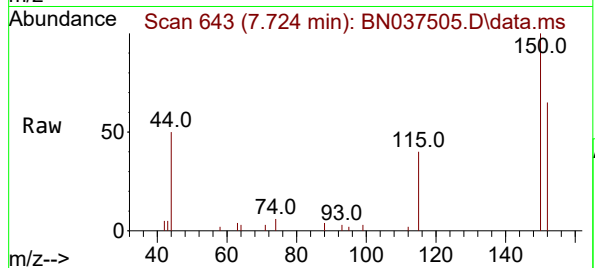




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

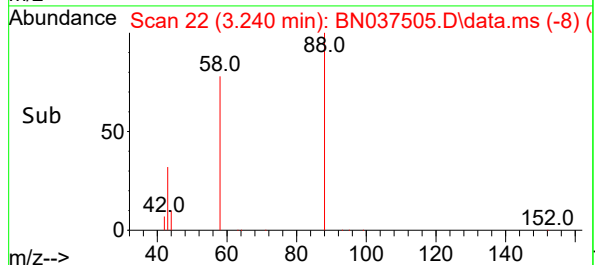
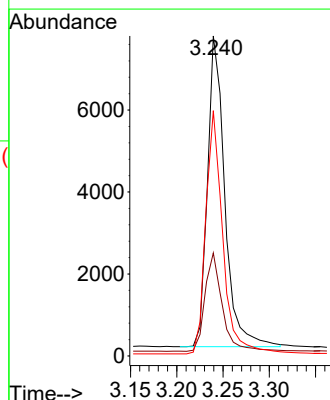
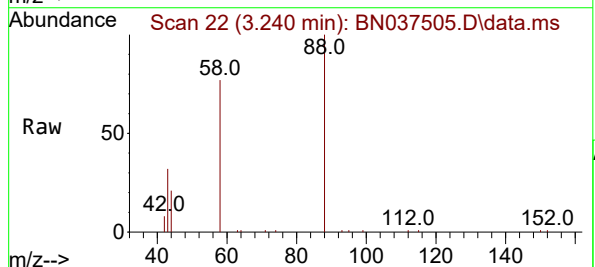
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

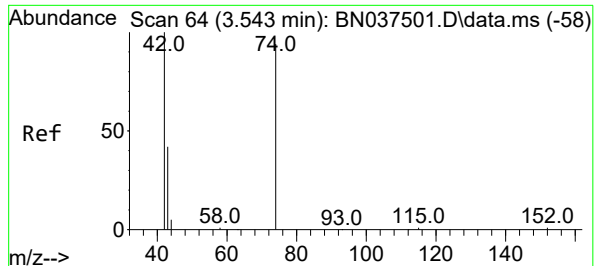
Tgt Ion:152 Resp: 2230
Ion Ratio Lower Upper
152 100
150 153.4 119.8 179.8
115 61.5 49.1 73.7



#2
1,4-Dioxane
Concen: 4.601 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion: 88 Resp: 9864
Ion Ratio Lower Upper
88 100
43 31.4 27.5 41.3
58 76.9 62.7 94.1

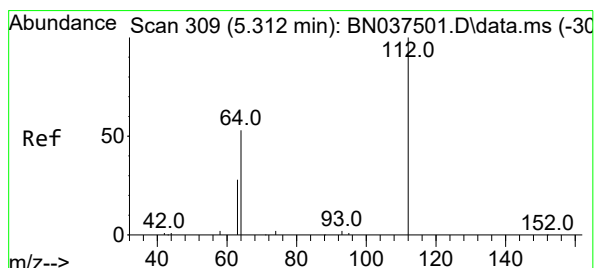
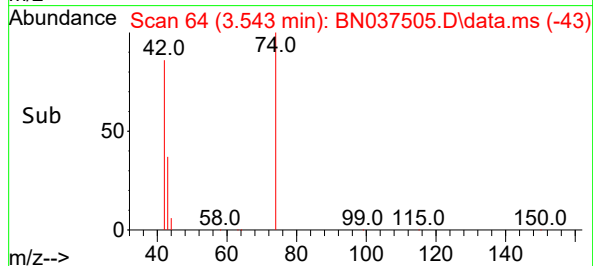
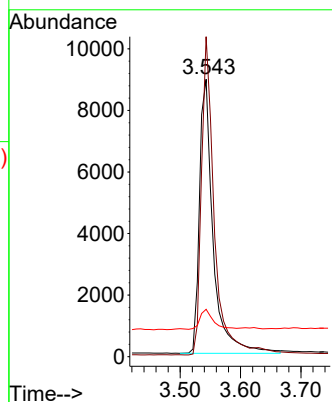
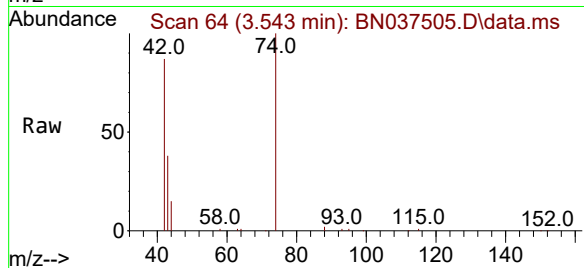




#3
n-Nitrosodimethylamine
Concen: 5.177 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

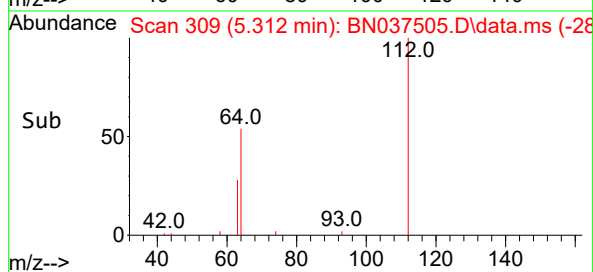
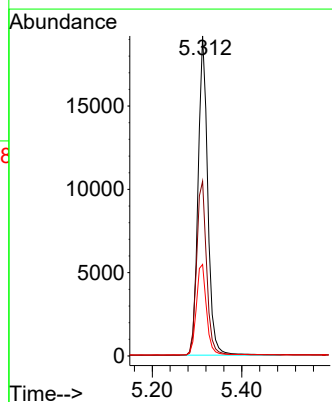
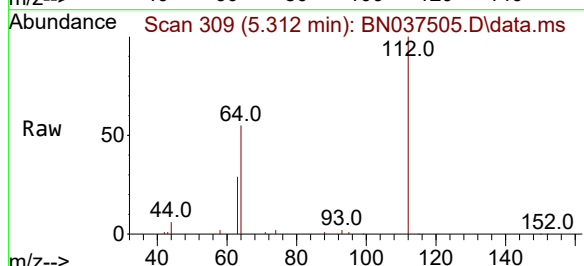
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

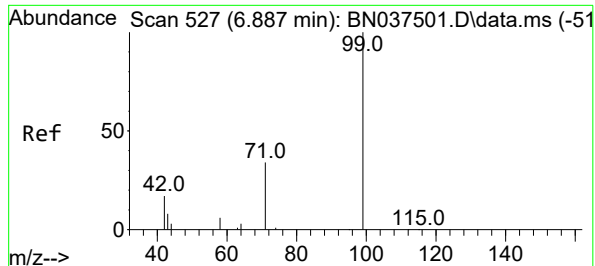
Tgt Ion: 42 Resp: 13961
Ion Ratio Lower Upper
42 100
74 110.6 91.8 137.6
44 7.0 15.0 22.6#



#4
2-Fluorophenol
Concen: 5.207 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion: 112 Resp: 28715
Ion Ratio Lower Upper
112 100
64 56.7 45.1 67.7
63 29.7 23.8 35.8

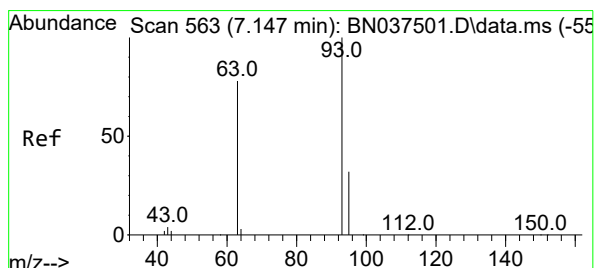
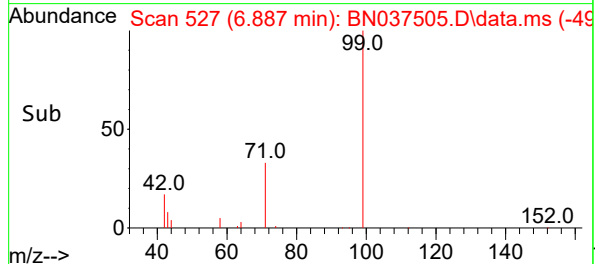
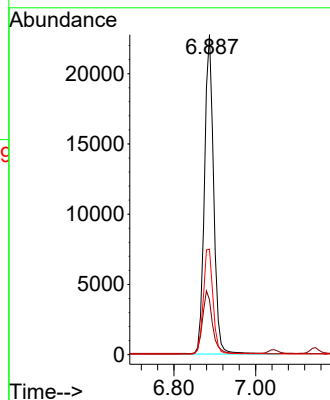
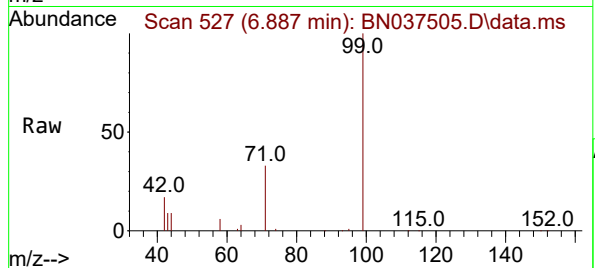




#5
Phenol-d6
Concen: 5.139 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

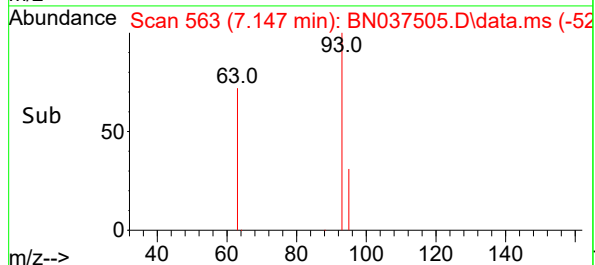
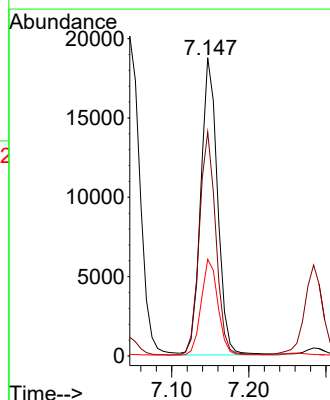
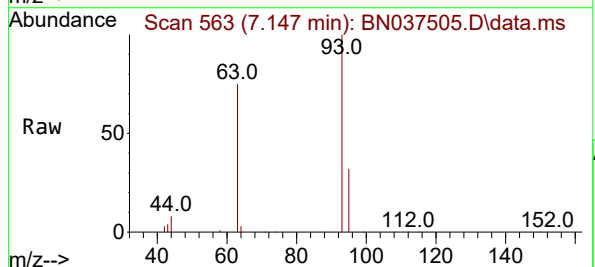
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

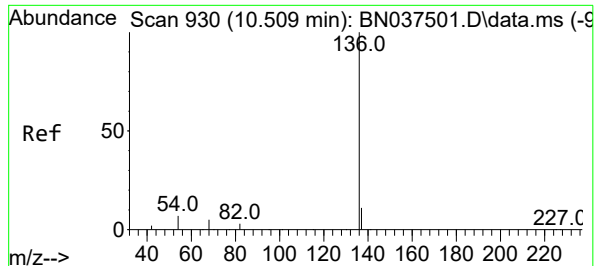
Tgt Ion: 99 Resp: 35549
Ion Ratio Lower Upper
99 100
42 21.0 17.1 25.7
71 34.9 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 4.920 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion: 93 Resp: 28323
Ion Ratio Lower Upper
93 100
63 73.7 58.2 87.4
95 32.2 25.3 37.9

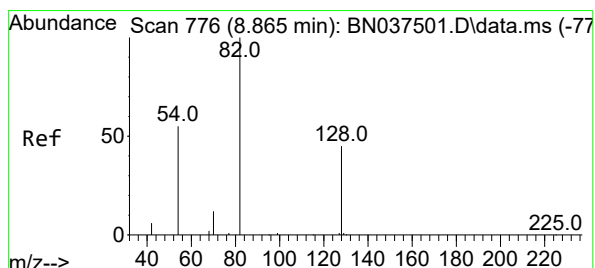
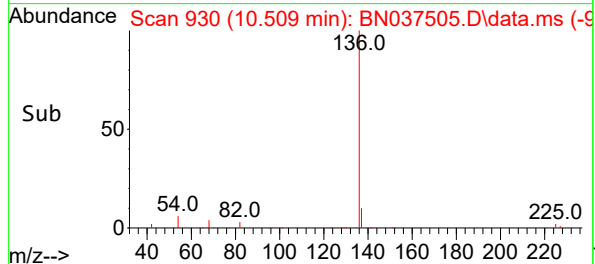
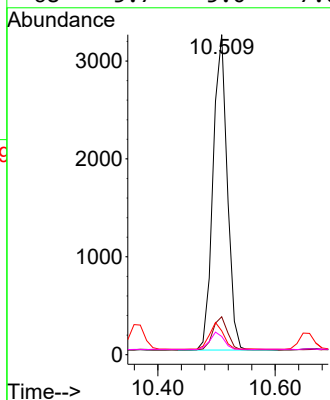
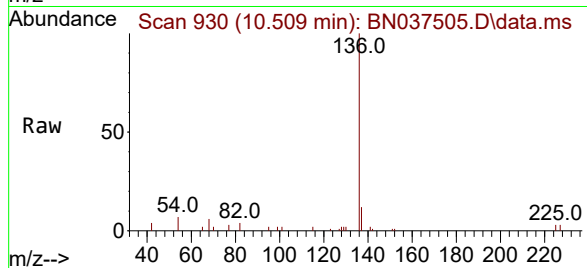




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

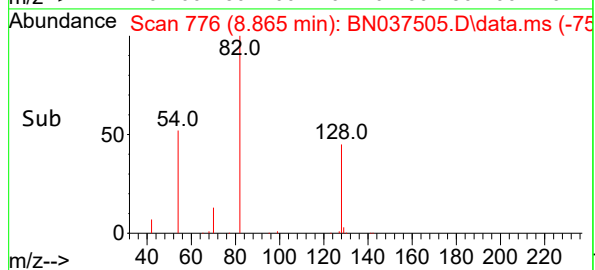
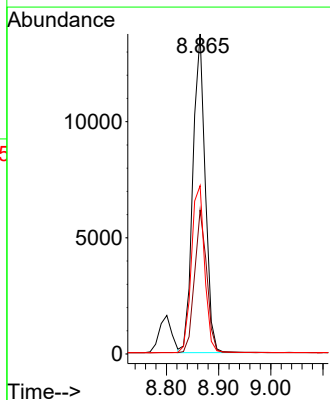
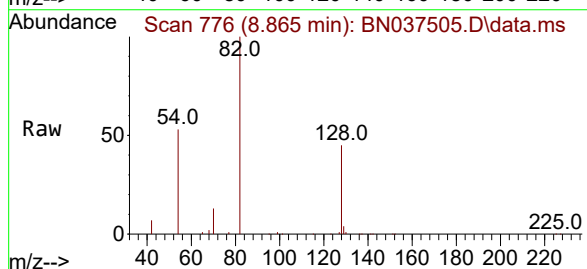
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

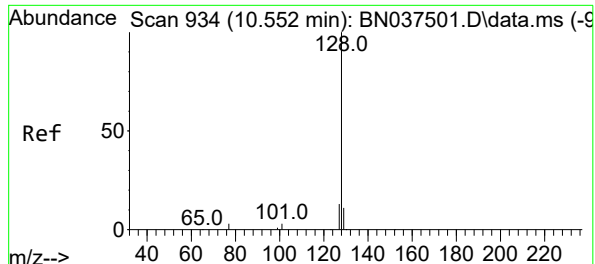
Tgt Ion:	136	Resp:	5395
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	7.5	6.6	9.8
68	5.7	5.0	7.6



#8
Nitrobenzene-d5
Concen: 5.623 ng
RT: 8.865 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:	82	Resp:	22676
Ion	Ratio	Lower	Upper
82	100		
128	45.0	37.5	56.3
54	52.6	45.3	67.9

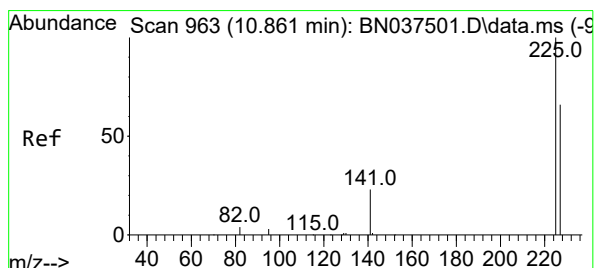
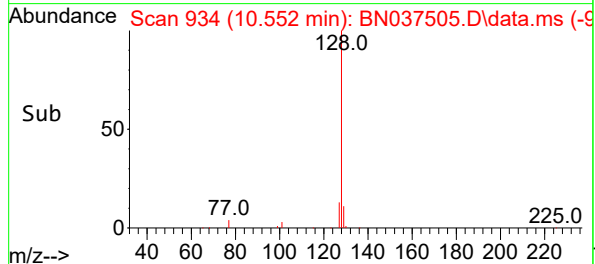
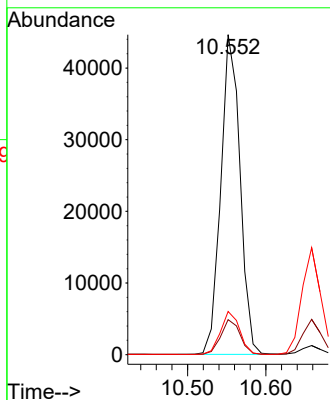
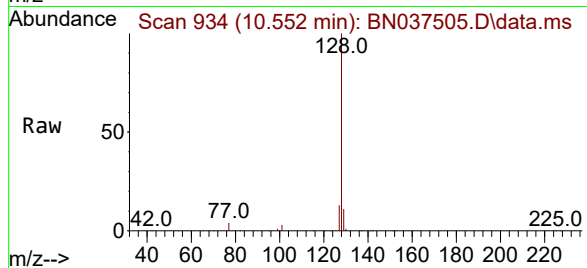




#9
Naphthalene
Concen: 5.279 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

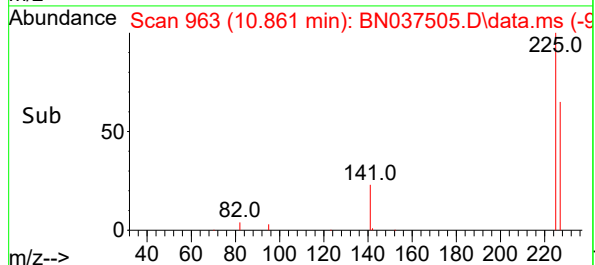
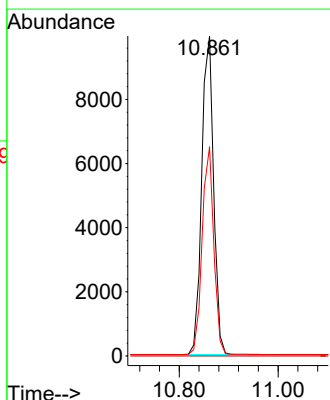
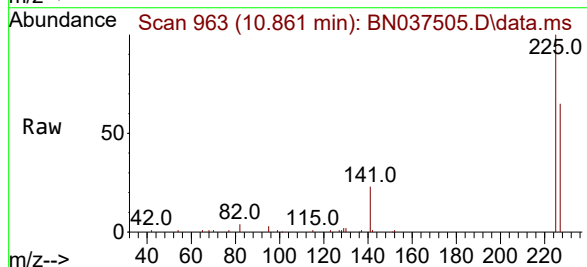
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

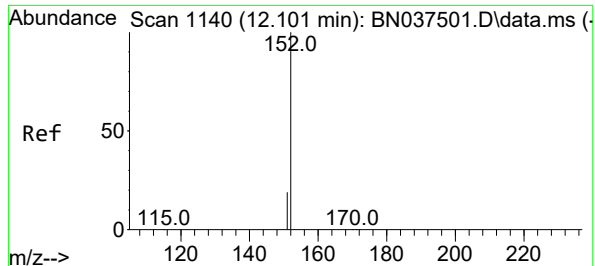
Tgt Ion:128 Resp: 75946
Ion Ratio Lower Upper
128 100
129 11.0 9.7 14.5
127 13.5 11.5 17.3



#10
Hexachlorobutadiene
Concen: 5.208 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:225 Resp: 16562
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.0 76.4

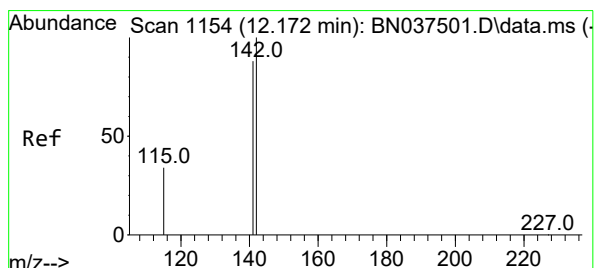
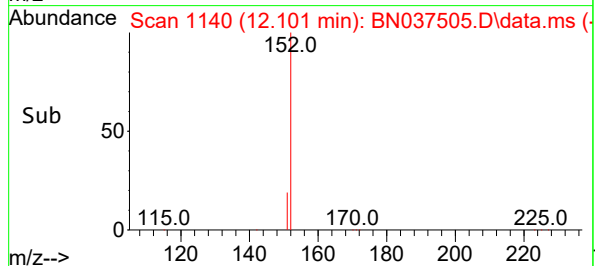
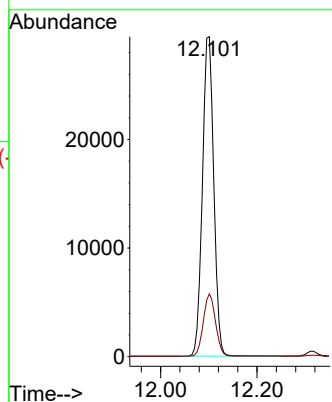
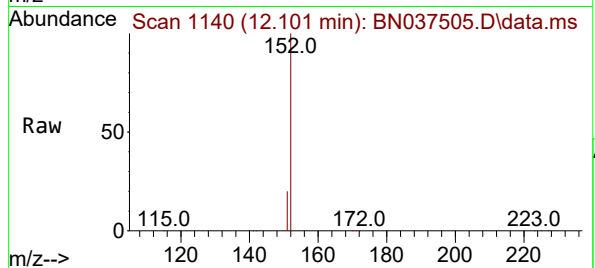




#11
2-Methylnaphthalene-d10
Concen: 6.198 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

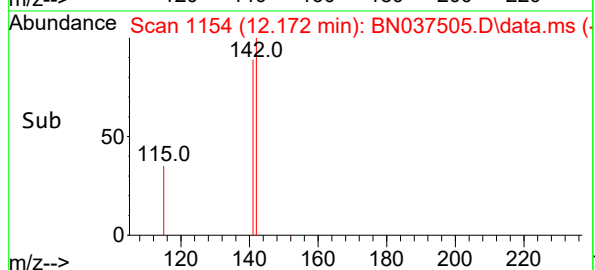
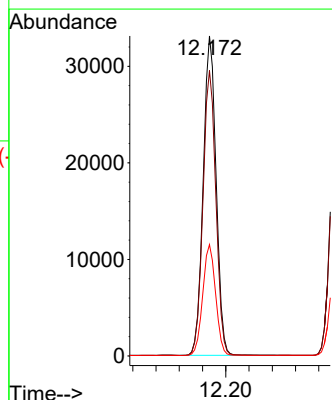
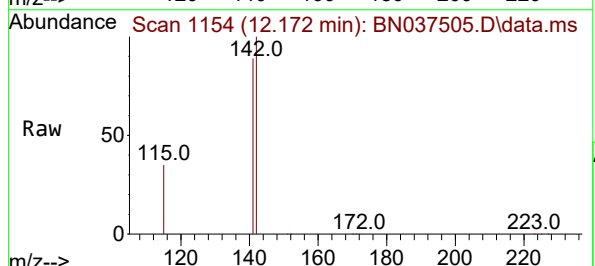
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

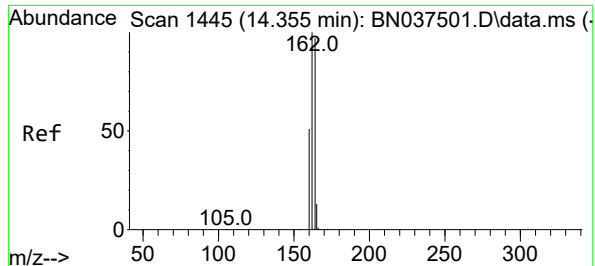
Tgt Ion:152 Resp: 47958
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#12
2-Methylnaphthalene
Concen: 5.388 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:142 Resp: 50973
Ion Ratio Lower Upper
142 100
141 89.2 71.0 106.4
115 34.8 29.0 43.4

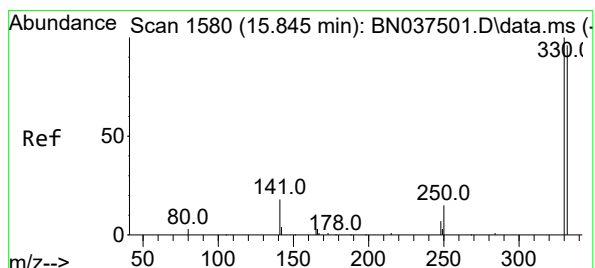
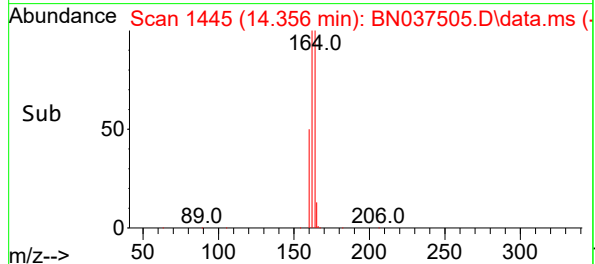
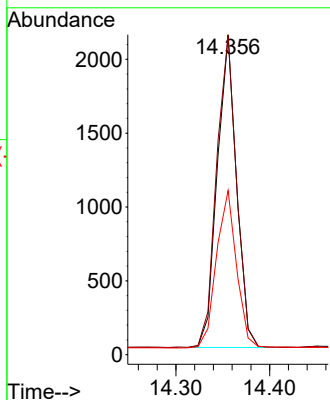
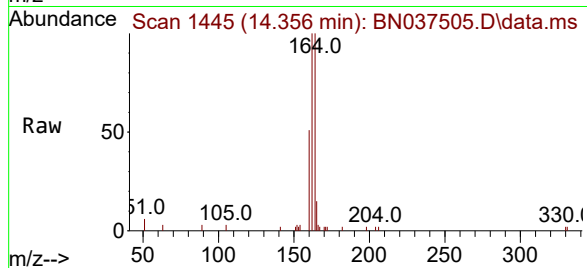




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

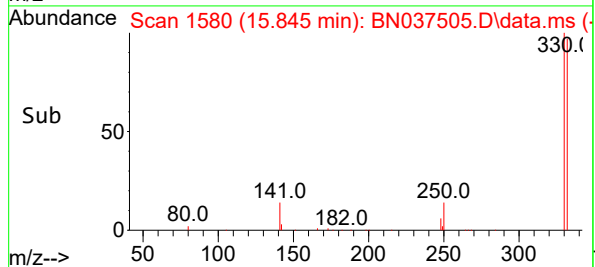
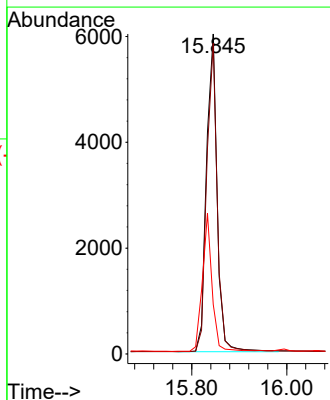
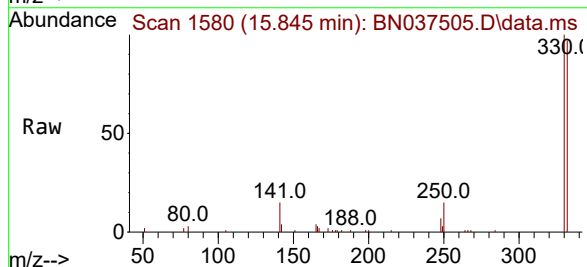
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

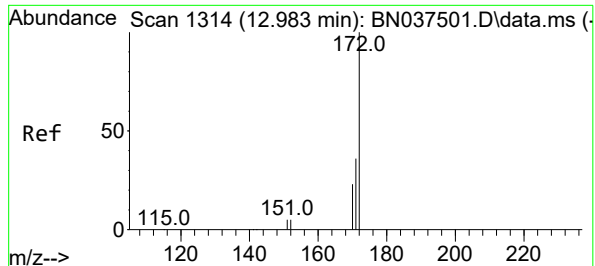
Tgt Ion:164 Resp: 3026
Ion Ratio Lower Upper
164 100
162 100.1 82.0 123.0
160 51.4 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 6.319 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:330 Resp: 9399
Ion Ratio Lower Upper
330 100
332 95.9 76.1 114.1
141 39.7 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 5.761 ng

RT: 12.983 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

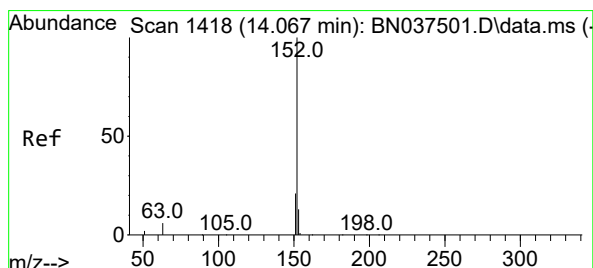
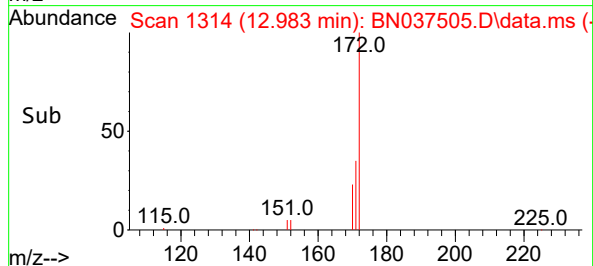
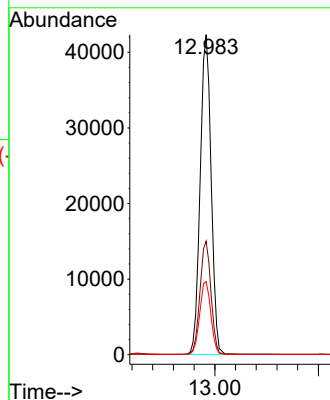
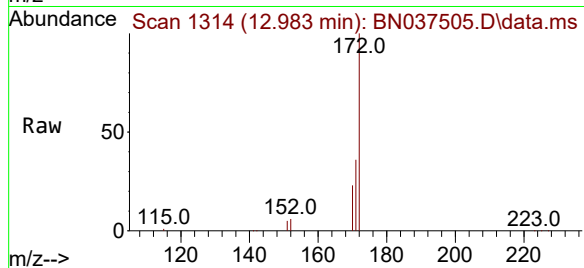
Tgt Ion:172 Resp: 90652

Ion Ratio Lower Upper

172 100

171 35.5 29.4 44.2

170 22.9 19.4 29.0



#16

Acenaphthylene

Concen: 5.528 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

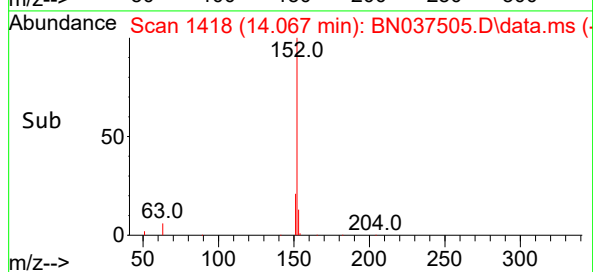
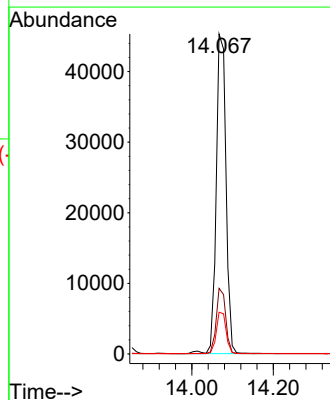
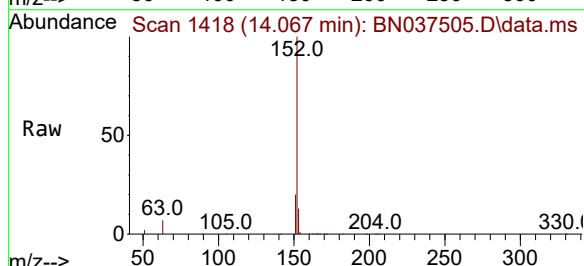
Tgt Ion:152 Resp: 74932

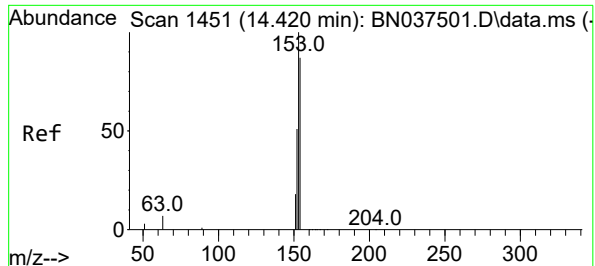
Ion Ratio Lower Upper

152 100

151 19.7 15.9 23.9

153 13.0 10.7 16.1





#17

Acenaphthene

Concen: 5.417 ng

RT: 14.420 min Scan# 1451

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

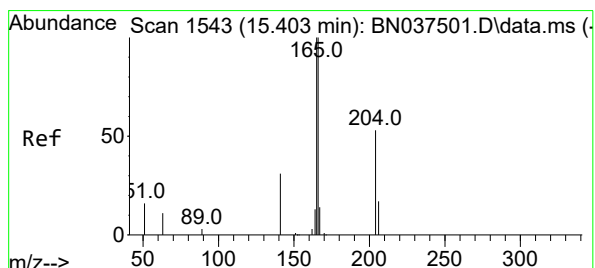
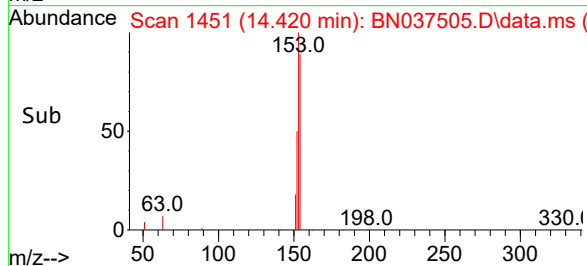
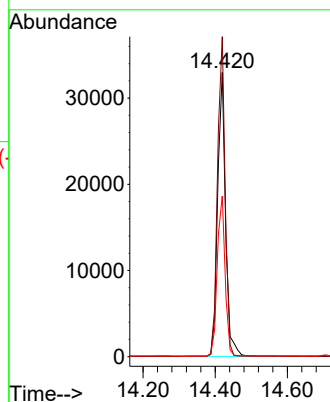
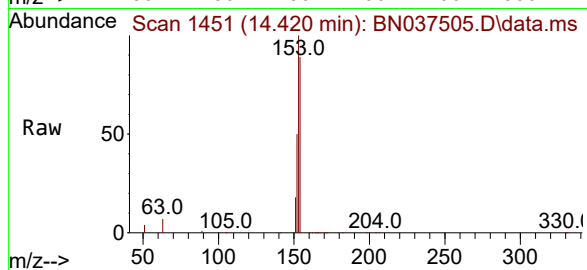
Tgt Ion:154 Resp: 49935

Ion Ratio Lower Upper

154 100

153 108.5 89.2 133.8

152 56.3 48.0 72.0



#18

Fluorene

Concen: 5.474 ng

RT: 15.403 min Scan# 1543

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

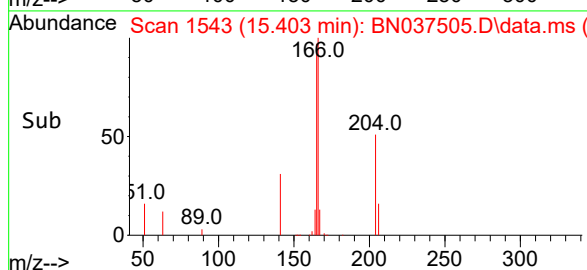
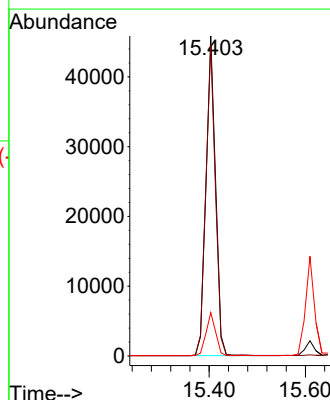
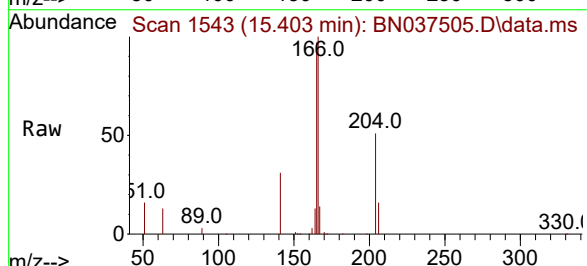
Tgt Ion:166 Resp: 64957

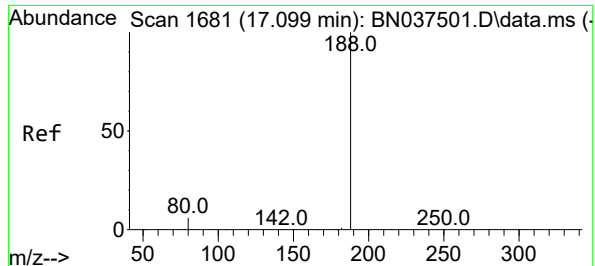
Ion Ratio Lower Upper

166 100

165 95.0 78.1 117.1

167 13.1 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

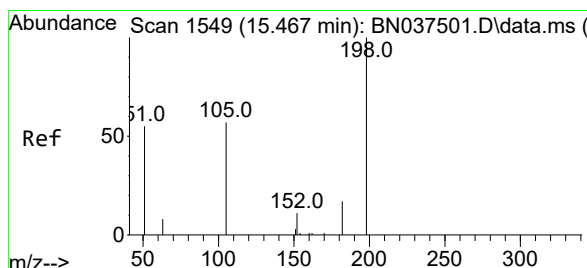
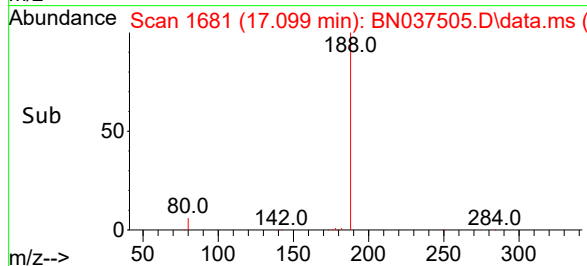
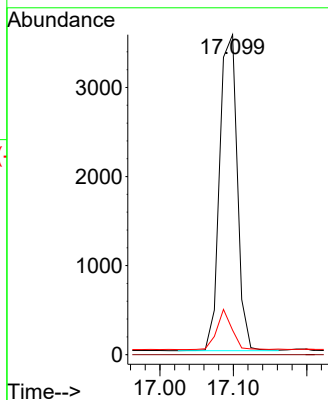
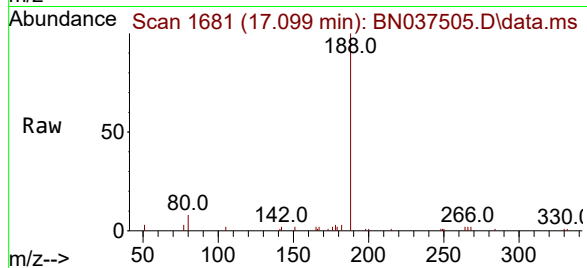
Tgt Ion:188 Resp: 5918

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.6 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 4.991 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

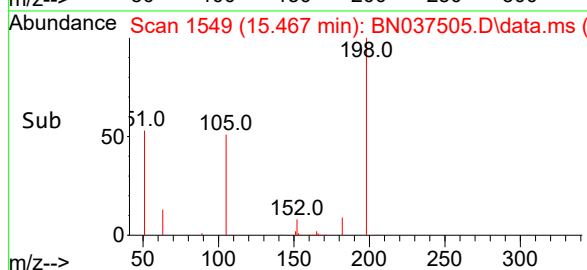
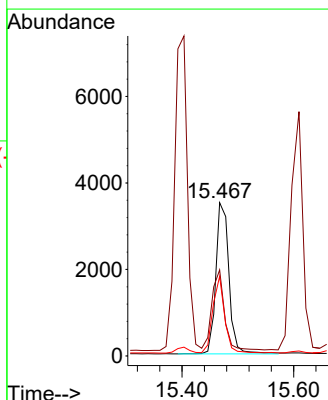
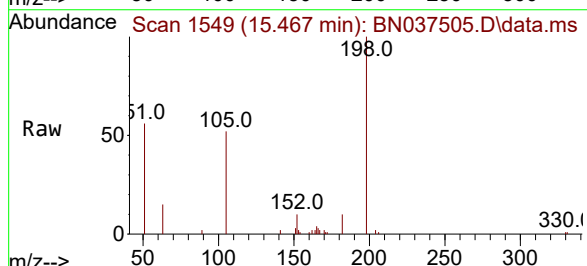
Tgt Ion:198 Resp: 5939

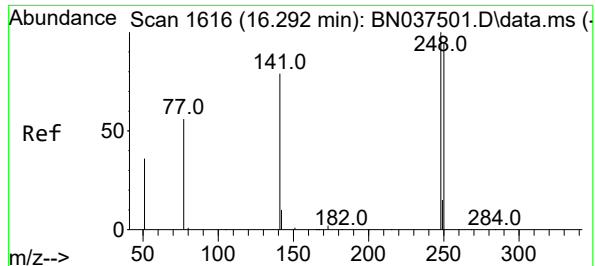
Ion Ratio Lower Upper

198 100

51 56.1 88.5 132.7#

105 52.0 61.2 91.8#

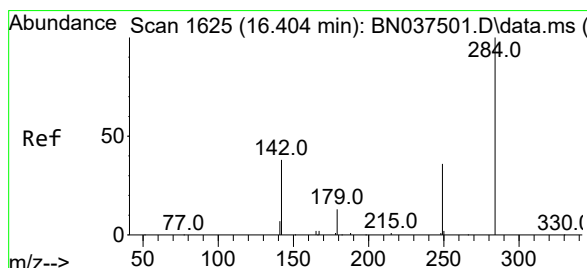
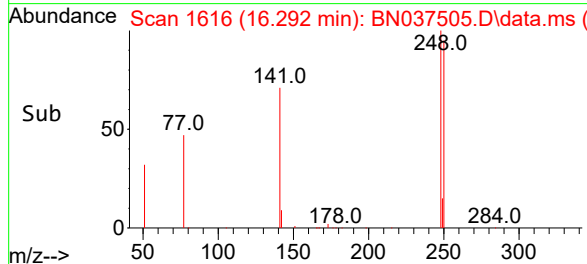
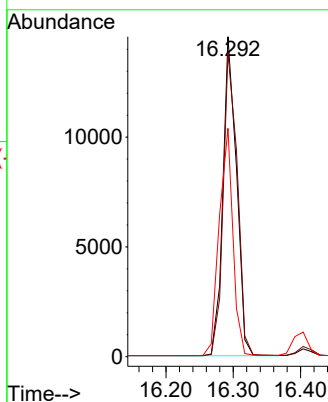
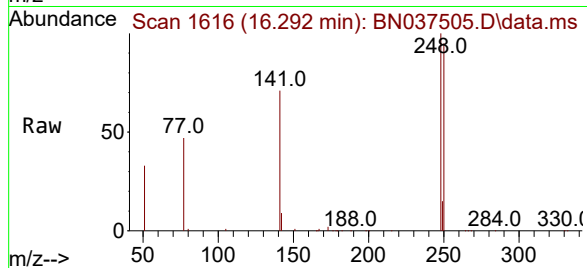




#21
4-Bromophenyl-phenylether
Concen: 5.344 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

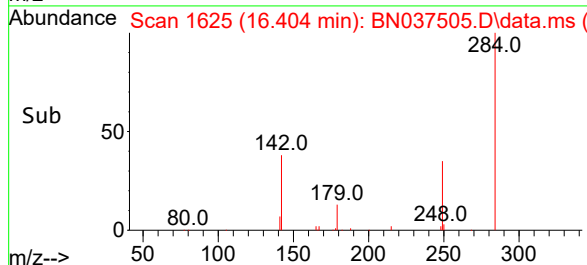
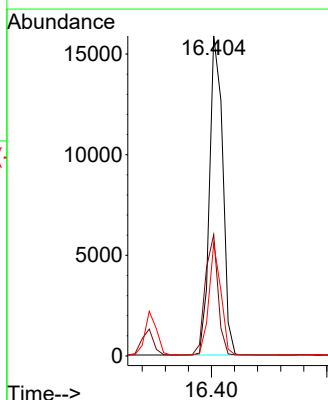
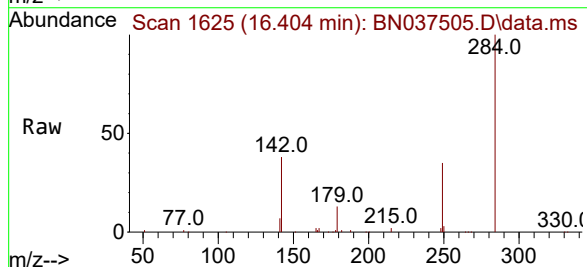
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

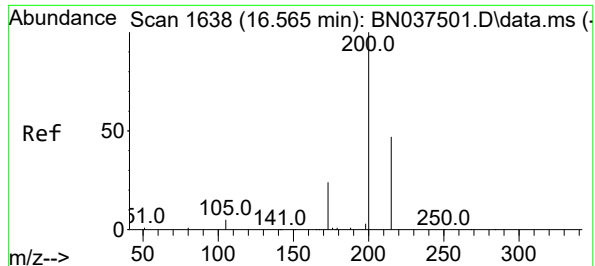
Tgt Ion:248 Resp: 20263
Ion Ratio Lower Upper
248 100
250 95.0 76.2 114.2
141 71.4 63.9 95.9



#22
Hexachlorobenzene
Concen: 5.106 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:284 Resp: 25010
Ion Ratio Lower Upper
284 100
142 36.4 28.9 43.3
249 31.8 25.8 38.6

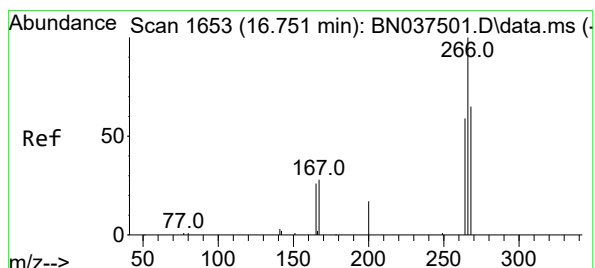
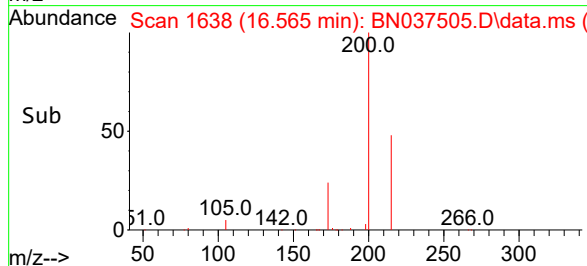
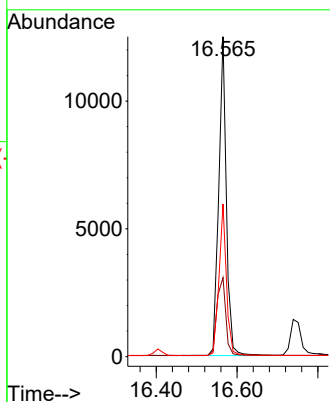
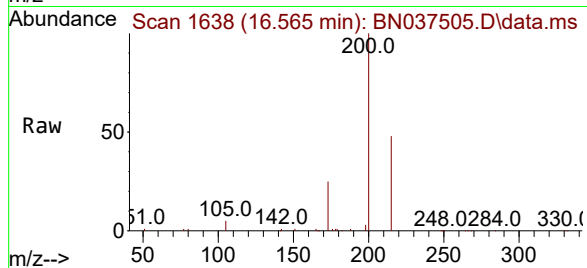




#23
Atrazine
Concen: 6.150 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

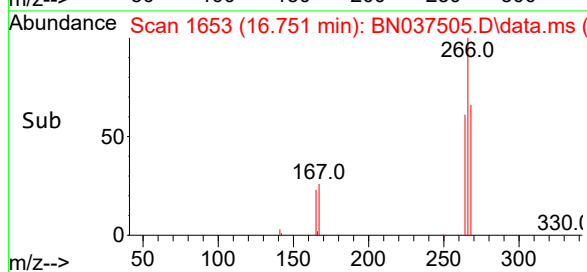
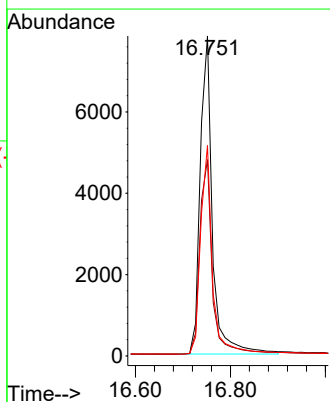
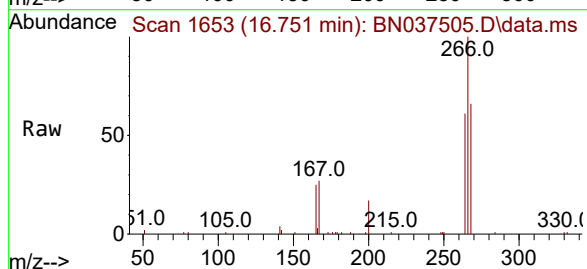
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

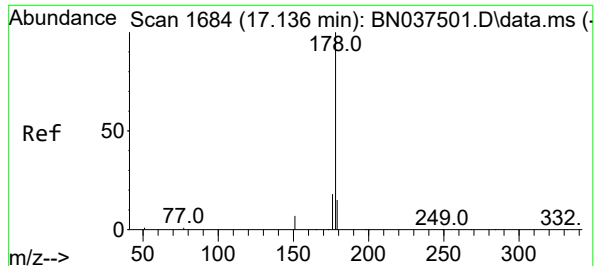
Tgt Ion:200 Resp: 16269
Ion Ratio Lower Upper
200 100
173 24.7 23.2 34.8
215 47.7 40.2 60.4



#24
Pentachlorophenol
Concen: 6.351 ng
RT: 16.751 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:266 Resp: 13954
Ion Ratio Lower Upper
266 100
264 62.8 49.3 73.9
268 64.0 51.6 77.4

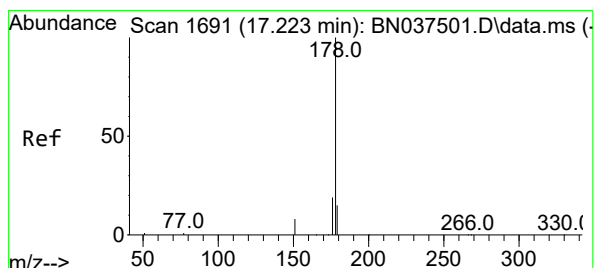
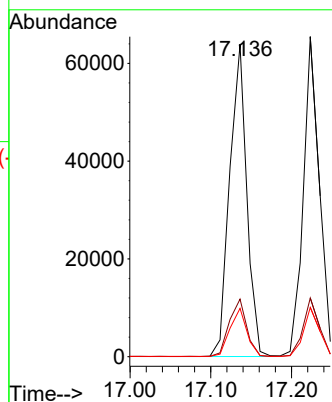
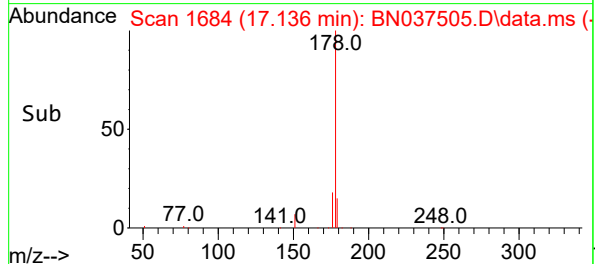
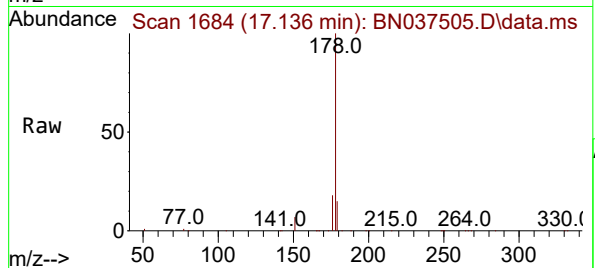




#25
Phenanthrene
Concen: 5.312 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

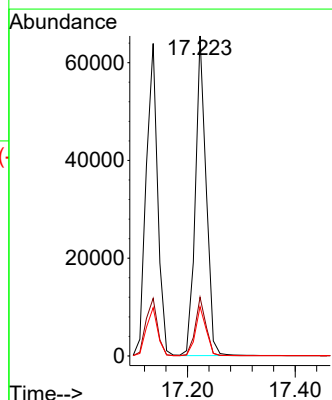
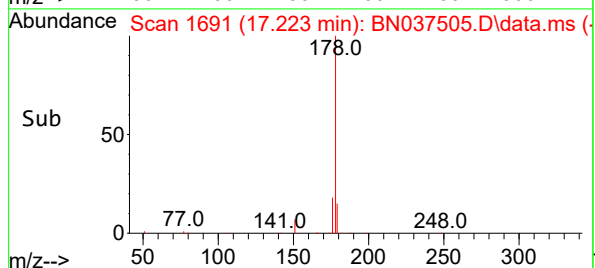
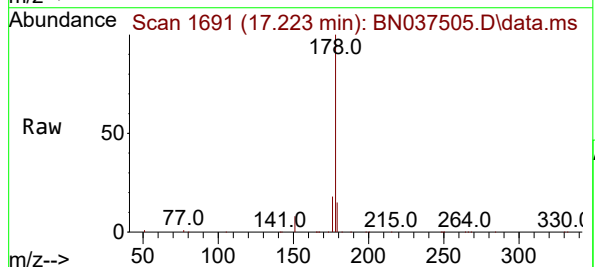
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

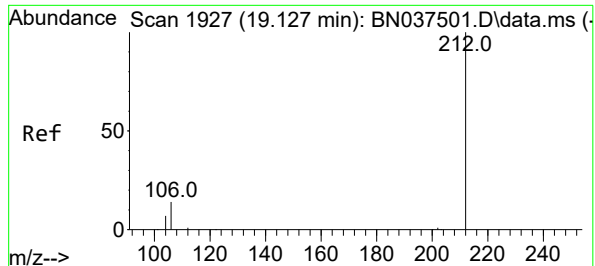
Tgt Ion:178 Resp: 94181
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.3 12.2 18.2



#26
Anthracene
Concen: 5.634 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:178 Resp: 91147
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 6.537 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

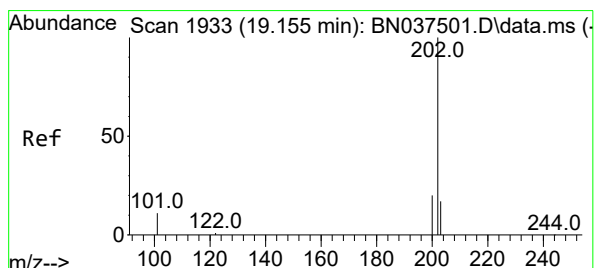
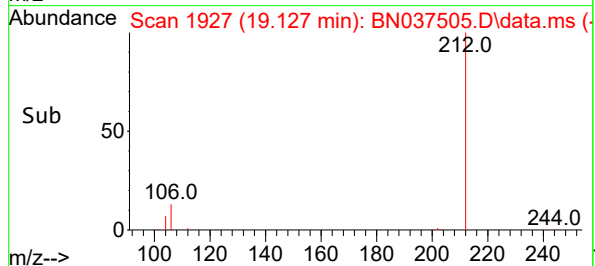
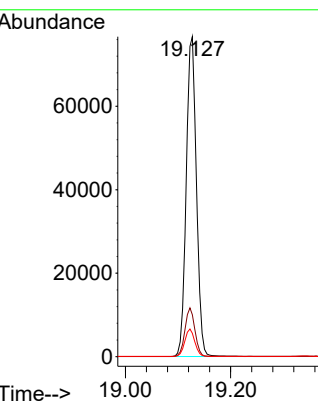
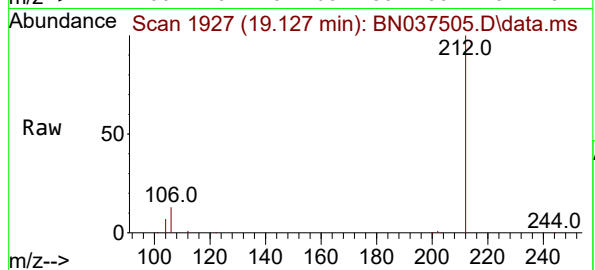
Tgt Ion:212 Resp: 102473

Ion Ratio Lower Upper

212 100

106 14.8 12.2 18.4

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 5.736 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

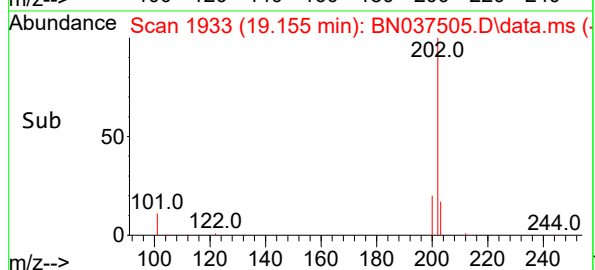
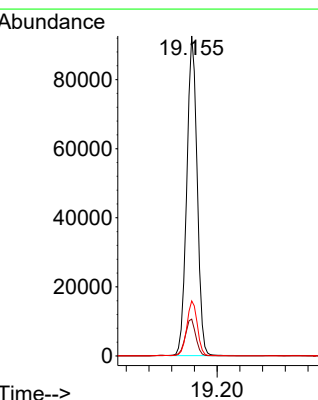
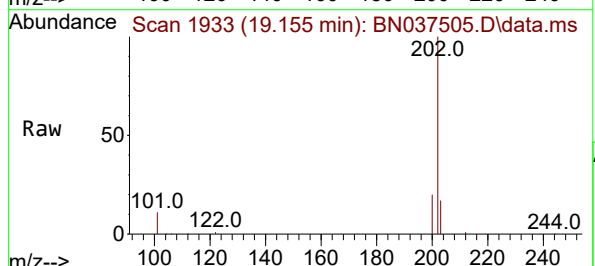
Tgt Ion:202 Resp: 117280

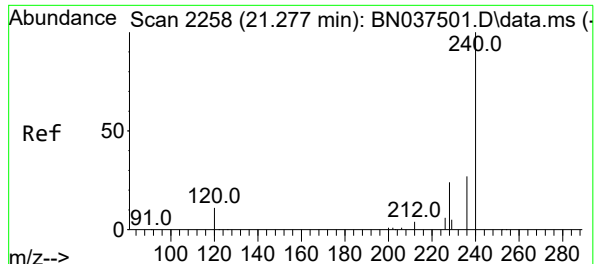
Ion Ratio Lower Upper

202 100

101 11.8 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

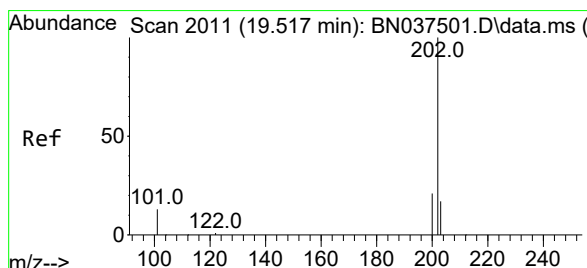
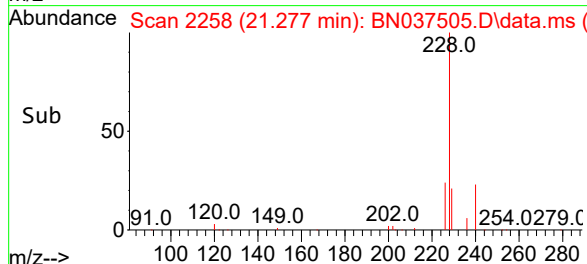
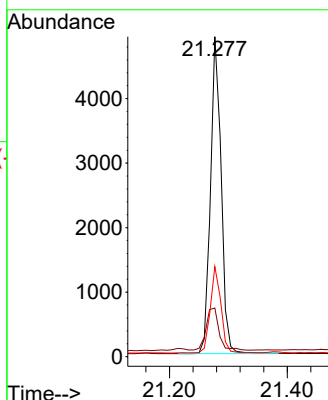
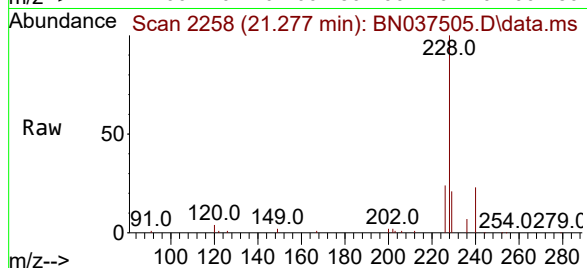
Tgt Ion:240 Resp: 6176

Ion Ratio Lower Upper

240 100

120 15.2 10.7 16.1

236 28.1 22.6 33.8



#30

Pyrene

Concen: 4.775 ng

RT: 19.517 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

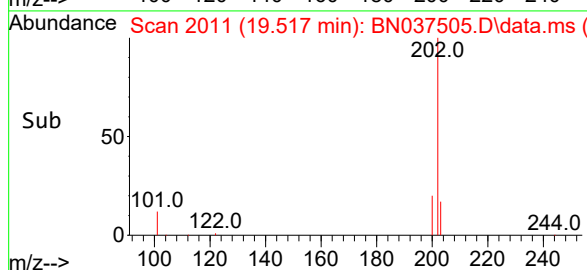
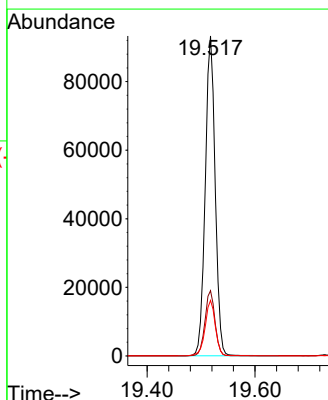
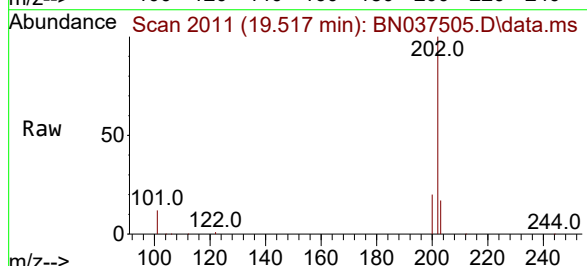
Tgt Ion:202 Resp: 118804

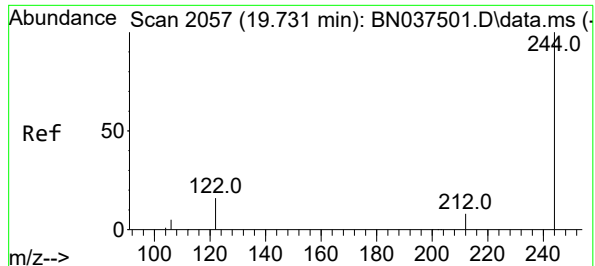
Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

203 17.8 14.3 21.5

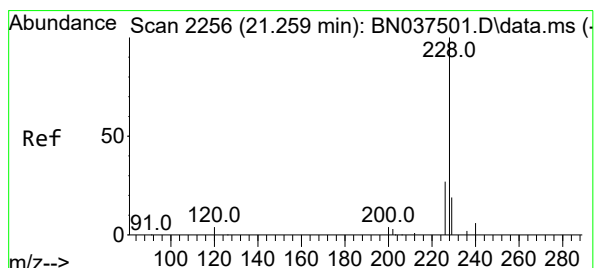
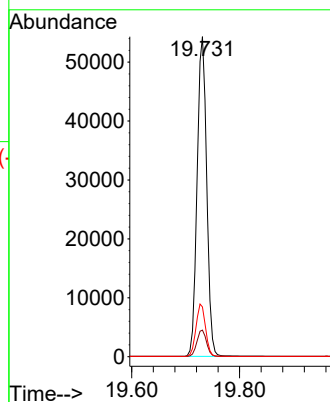
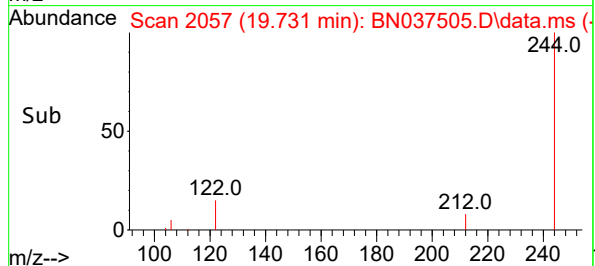
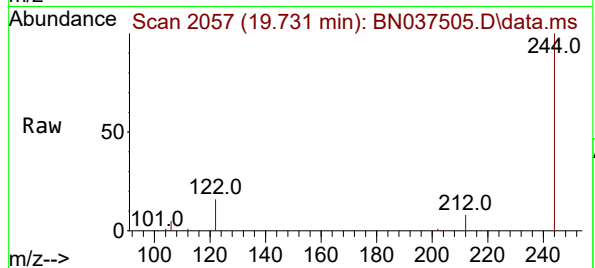




#31
Terphenyl-d14
Concen: 5.031 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

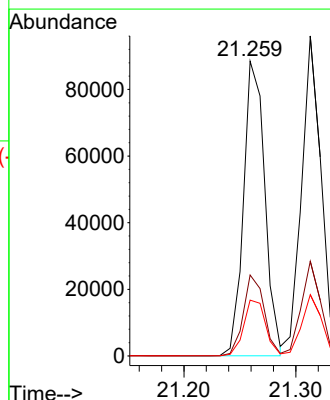
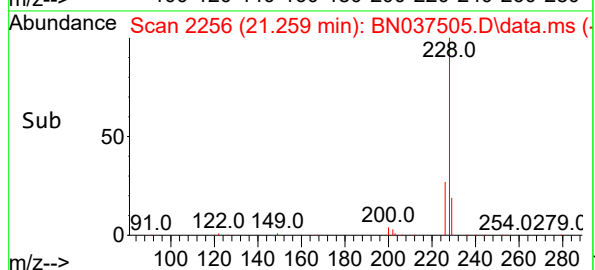
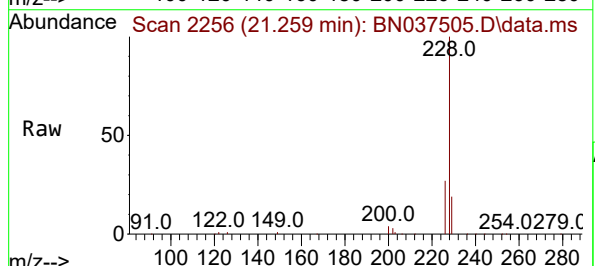
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

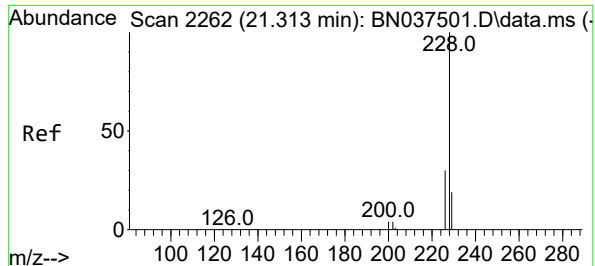
Tgt Ion:244 Resp: 66764
Ion Ratio Lower Upper
244 100
212 8.3 7.4 11.2
122 15.6 13.6 20.4



#32
Benzo(a)anthracene
Concen: 5.414 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:228 Resp: 117117
Ion Ratio Lower Upper
228 100
226 27.5 21.9 32.9
229 18.9 15.8 23.8





#33

Chrysene

Concen: 5.239 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

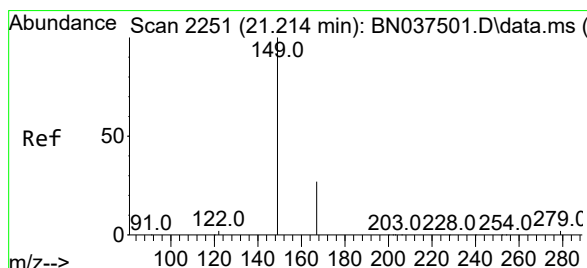
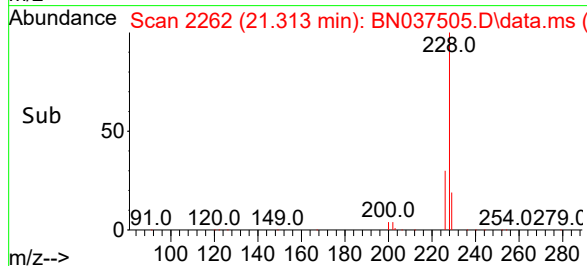
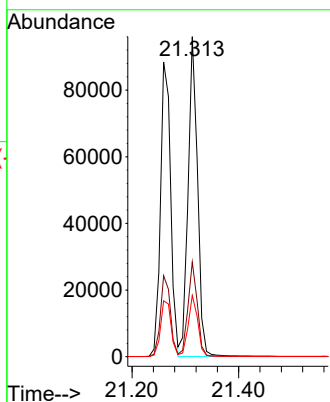
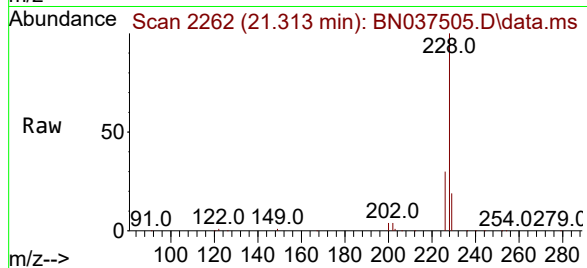
Tgt Ion:228 Resp: 117985

Ion Ratio Lower Upper

228 100

226 29.6 24.2 36.4

229 19.2 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 6.181 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

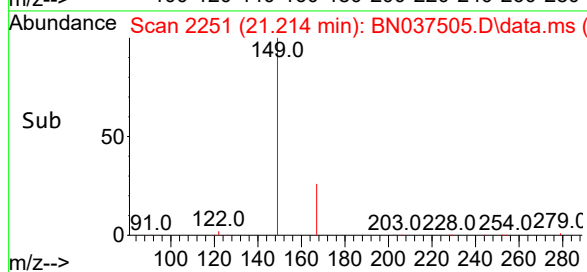
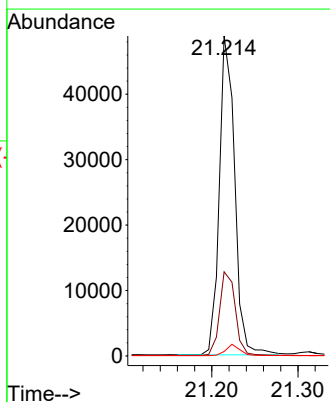
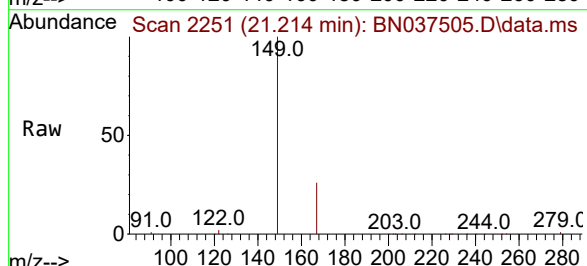
Tgt Ion:149 Resp: 60154

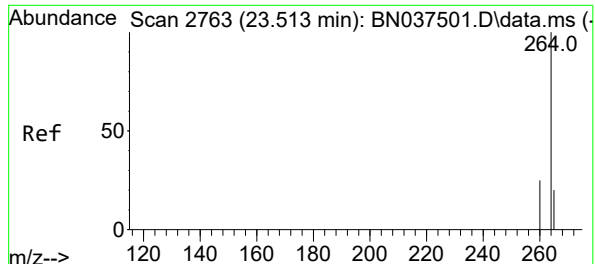
Ion Ratio Lower Upper

149 100

167 26.9 21.8 32.8

279 3.2 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037505.D

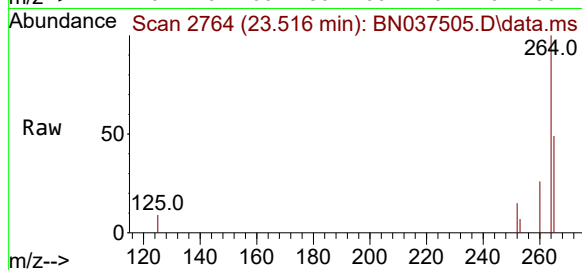
Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



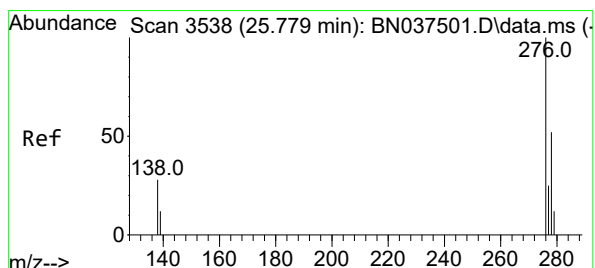
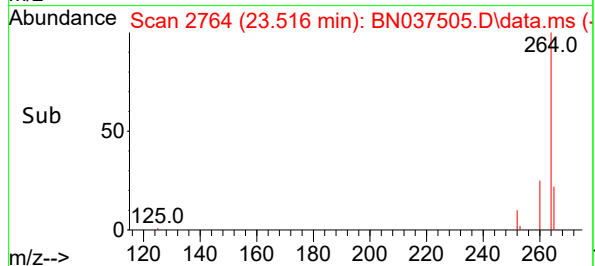
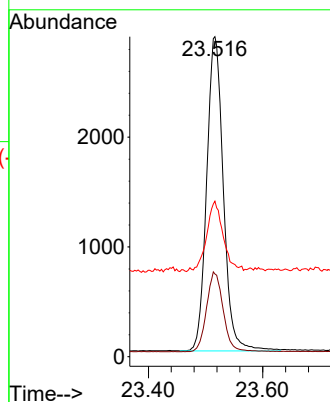
Tgt Ion:264 Resp: 5810

Ion Ratio Lower Upper

264 100

260 25.9 21.2 31.8

265 48.6 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.975 ng

RT: 25.782 min Scan# 3539

Delta R.T. 0.003 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

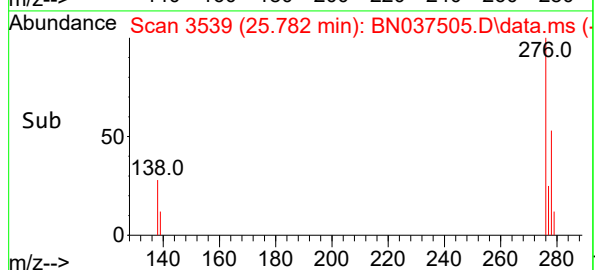
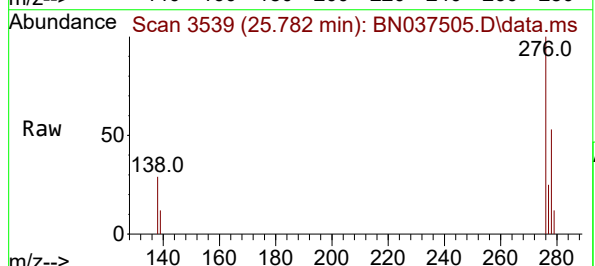
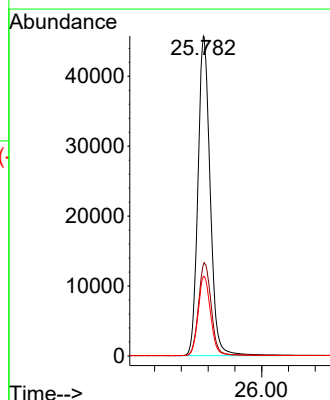
Tgt Ion:276 Resp: 144593

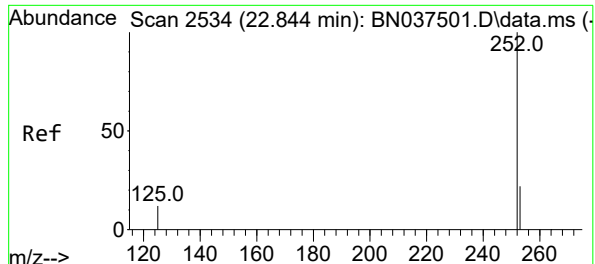
Ion Ratio Lower Upper

276 100

138 30.3 24.0 36.0

277 25.2 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 5.570 ng

RT: 22.844 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

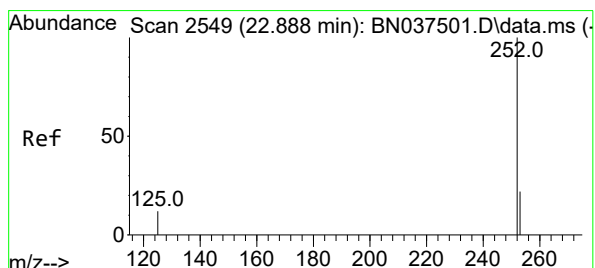
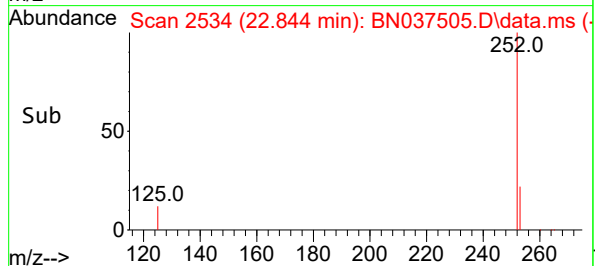
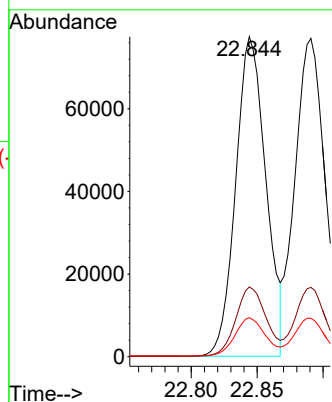
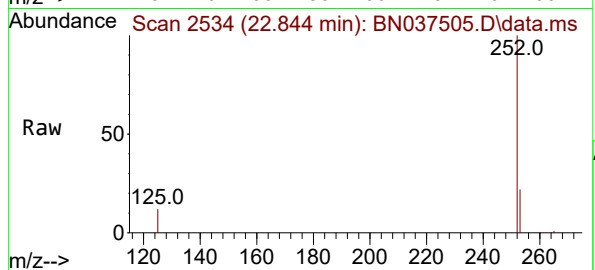
Tgt Ion:252 Resp: 122848

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 12.2 13.0 19.6#



#38

Benzo(k)fluoranthene

Concen: 5.503 ng

RT: 22.891 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

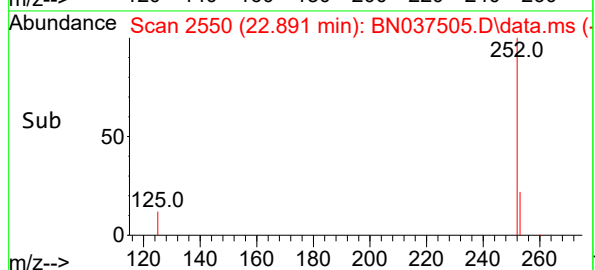
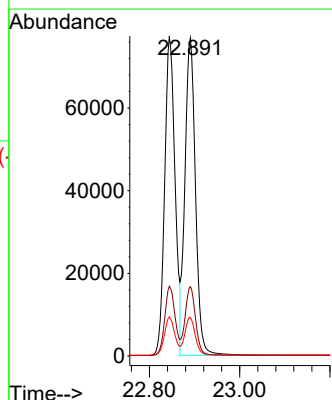
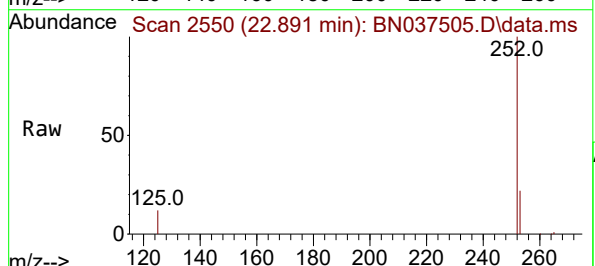
Tgt Ion:252 Resp: 125226

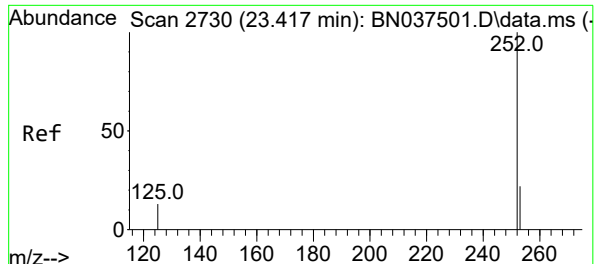
Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 12.1 13.1 19.7#





#39

Benzo(a)pyrene

Concen: 5.797 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

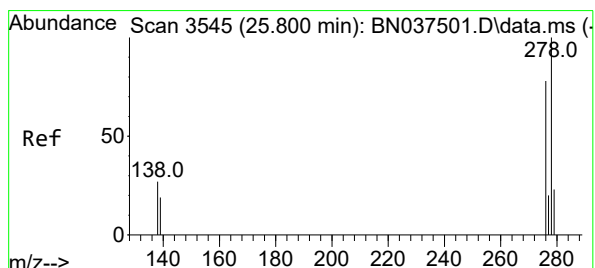
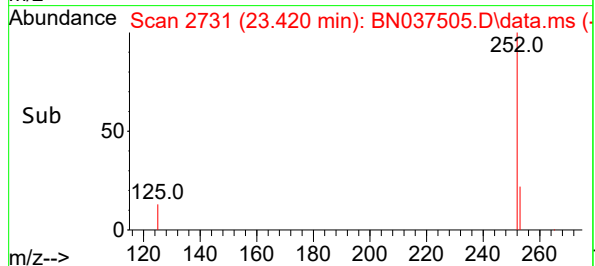
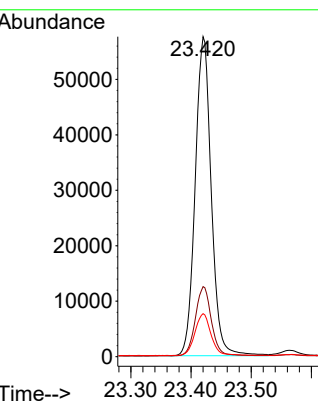
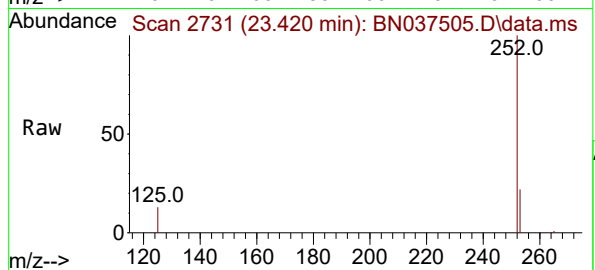
Tgt Ion:252 Resp: 106654

Ion Ratio Lower Upper

252 100

253 21.9 19.9 29.9

125 13.5 15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 6.029 ng

RT: 25.800 min Scan# 3545

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

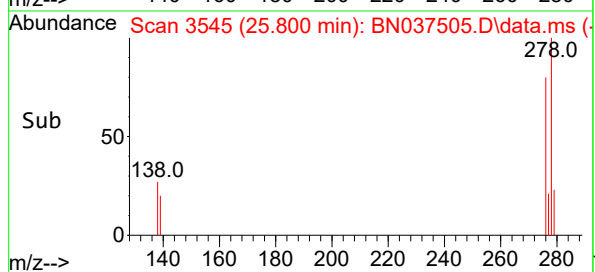
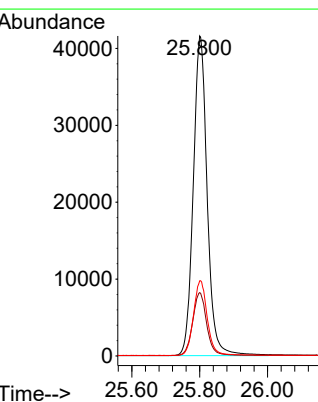
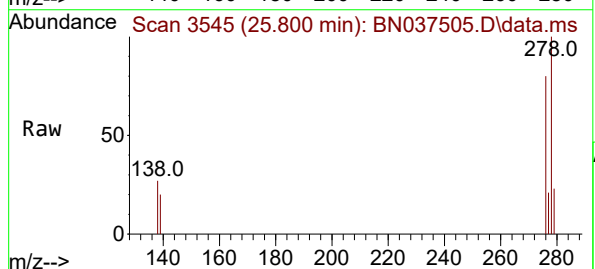
Tgt Ion:278 Resp: 118164

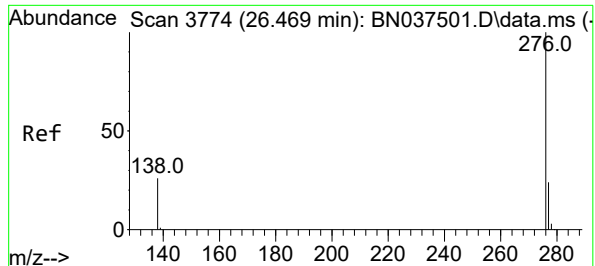
Ion Ratio Lower Upper

278 100

139 19.8 17.5 26.3

279 23.5 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 5.952 ng

RT: 26.469 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037505.D

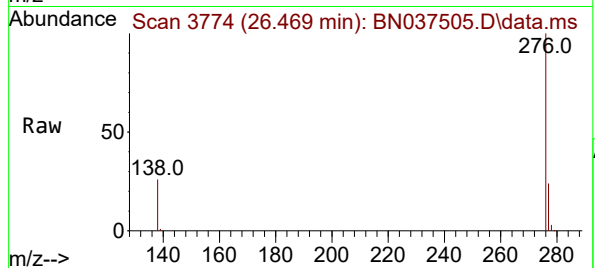
Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



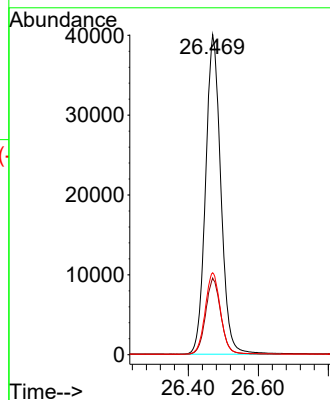
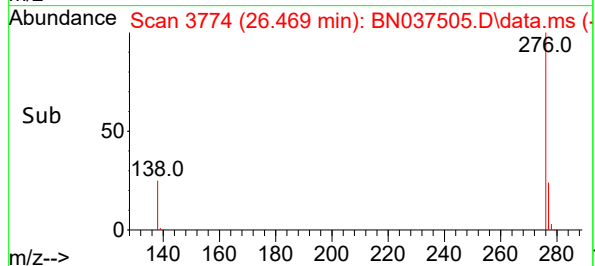
Tgt Ion:276 Resp: 120757

Ion Ratio Lower Upper

276 100

277 24.0 20.9 31.3

138 25.6 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037506.D
 Acq On : 15 Jul 2025 16:58
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN071525

Quant Time: Jul 15 17:34:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 17:33:01 2025
 Response via : Initial Calibration

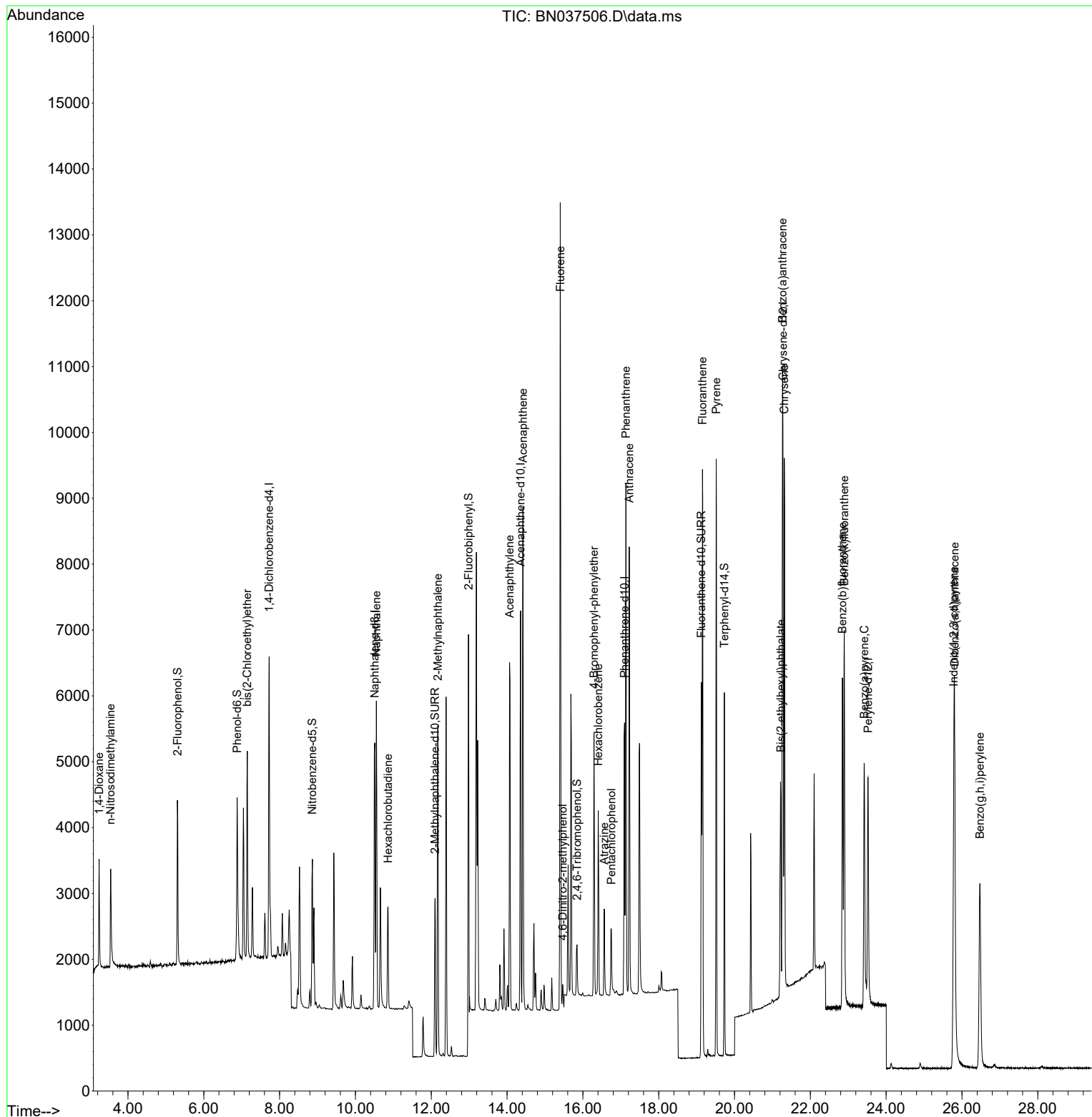
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2236	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5813	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3335	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6334	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5040	0.400	ng	# 0.00
35) Perylene-d12	23.522	264	4669	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2030	0.367	ng	0.00
5) Phenol-d6	6.879	99	2407	0.347	ng	0.00
8) Nitrobenzene-d5	8.865	82	1802	0.415	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	3375	0.405	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	531	0.324	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	8001	0.461	ng	0.00
27) Fluoranthene-d10	19.127	212	6495	0.387	ng	0.00
31) Terphenyl-d14	19.731	244	5056	0.467	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1011	0.470	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.543	42	1083	0.401	ng	# 95
6) bis(2-Chloroethyl)ether	7.147	93	2398	0.415	ng	99
9) Naphthalene	10.551	128	6033	0.389	ng	100
10) Hexachlorobutadiene	10.861	225	1386	0.405	ng	# 99
12) 2-Methylnaphthalene	12.172	142	3595	0.353	ng	100
16) Acenaphthylene	14.067	152	6226	0.417	ng	99
17) Acenaphthene	14.420	154	3826	0.377	ng	99
18) Fluorene	15.403	166	5028	0.384	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	267	0.401	ng	95
21) 4-Bromophenyl-phenylether	16.292	248	1563	0.385	ng	100
22) Hexachlorobenzene	16.404	284	2158	0.412	ng	99
23) Atrazine	16.565	200	1050	0.371	ng	98
24) Pentachlorophenol	16.751	266	679	0.289	ng	99
25) Phenanthrene	17.136	178	7640	0.403	ng	99
26) Anthracene	17.223	178	6928	0.400	ng	100
28) Fluoranthene	19.155	202	8063	0.368	ng	100
30) Pyrene	19.517	202	8002	0.394	ng	100
32) Benzo(a)anthracene	21.268	228	6891	0.390	ng	99
33) Chrysene	21.313	228	7126	0.388	ng	99
34) Bis(2-ethylhexyl)phtha...	21.223	149	2705	0.341	ng	98
36) Indeno(1,2,3-cd)pyrene	25.785	276	7666	0.394	ng	99
37) Benzo(b)fluoranthene	22.847	252	6430	0.363	ng	100
38) Benzo(k)fluoranthene	22.894	252	7254	0.397	ng	98
39) Benzo(a)pyrene	23.420	252	5792	0.392	ng	99
40) Dibenzo(a,h)anthracene	25.806	278	6203	0.394	ng	98
41) Benzo(g,h,i)perylene	26.472	276	6018	0.369	ng	98

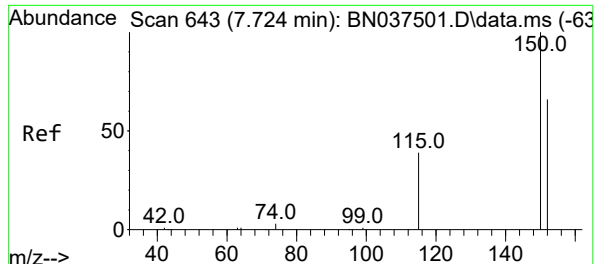
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037506.D
Acq On : 15 Jul 2025 16:58
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN071525

Quant Time: Jul 15 17:34:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:33:01 2025
Response via : Initial Calibration

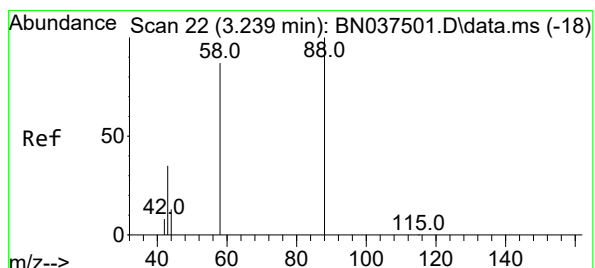
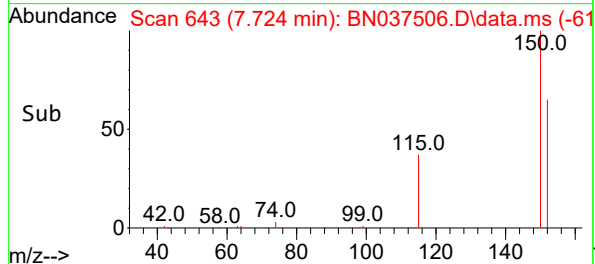
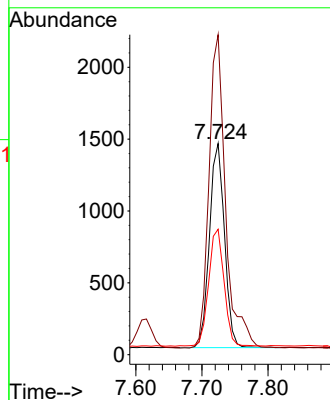
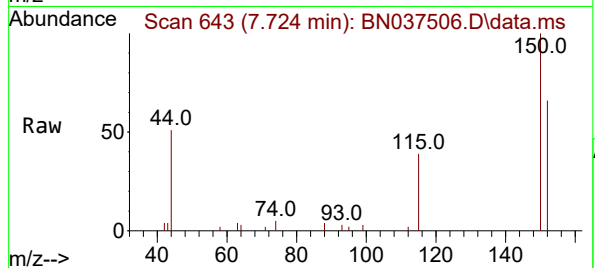




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

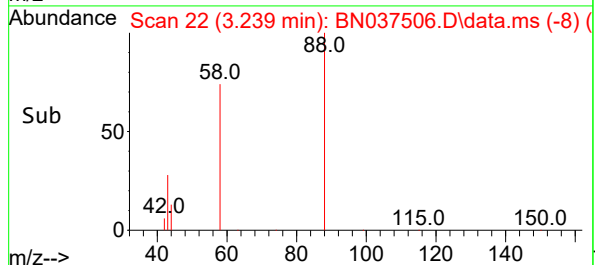
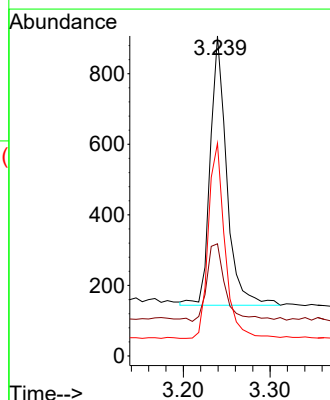
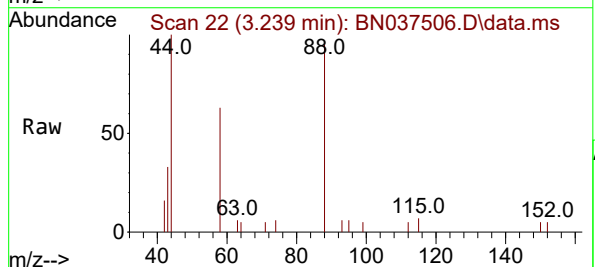
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

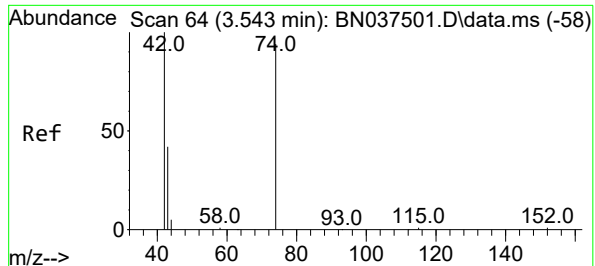
Tgt Ion:152 Resp: 2236
Ion Ratio Lower Upper
152 100
150 151.5 119.8 179.8
115 59.4 49.1 73.7



#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion: 88 Resp: 1011
Ion Ratio Lower Upper
88 100
43 33.0 27.5 41.3
58 72.9 62.7 94.1

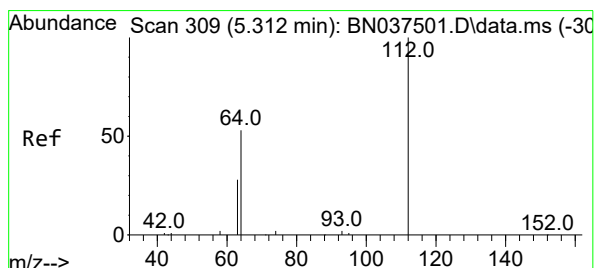
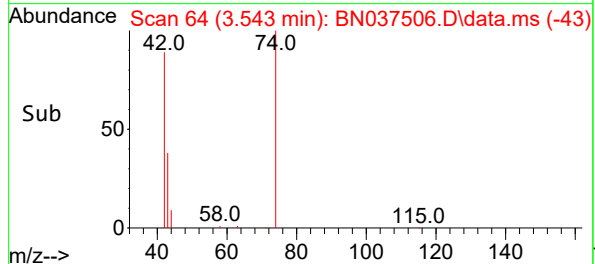
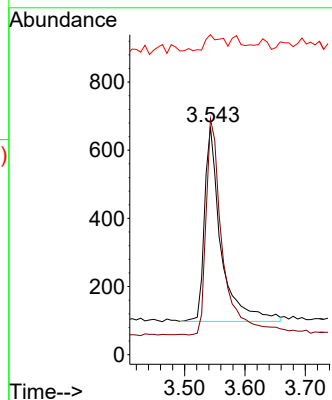
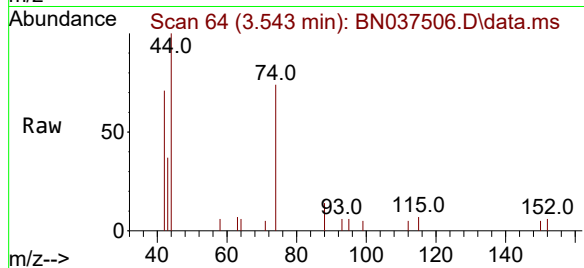




#3
n-Nitrosodimethylamine
Concen: 0.401 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

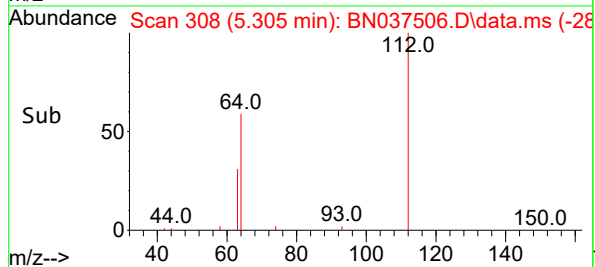
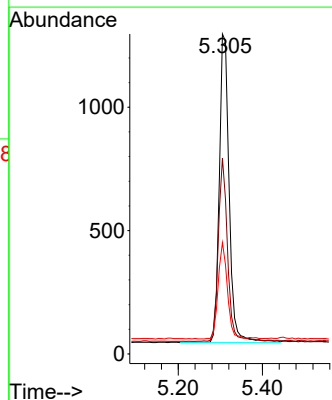
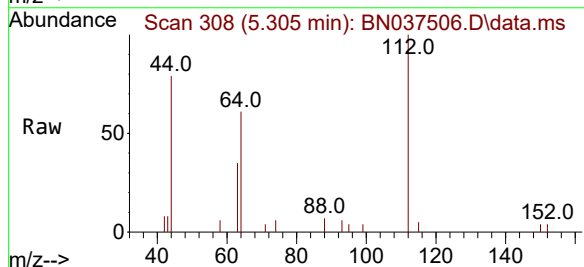
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

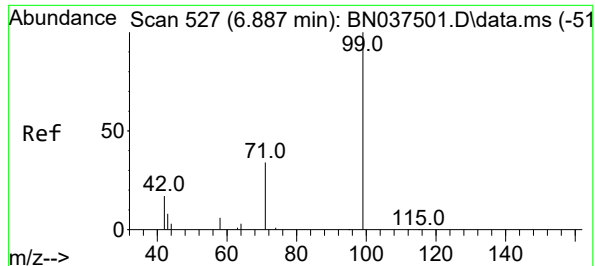
Tgt Ion: 42 Resp: 1083
Ion Ratio Lower Upper
42 100
74 112.8 91.8 137.6
44 8.5 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.367 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion: 112 Resp: 2030
Ion Ratio Lower Upper
112 100
64 55.8 45.1 67.7
63 29.2 23.8 35.8

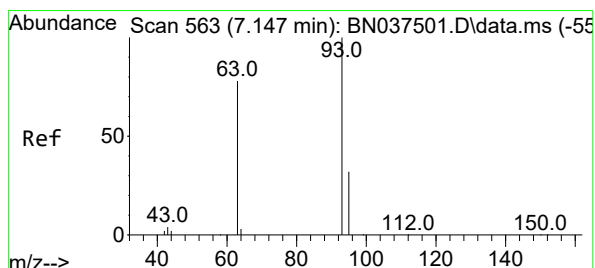
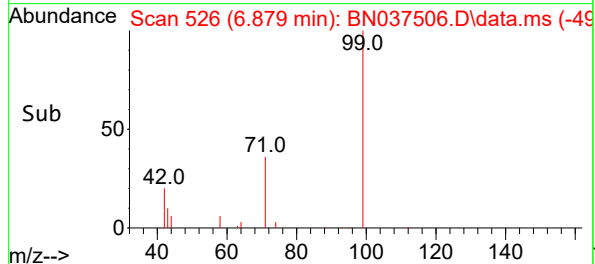
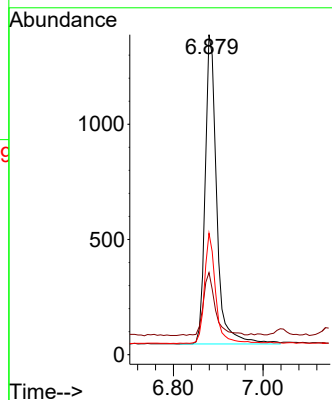
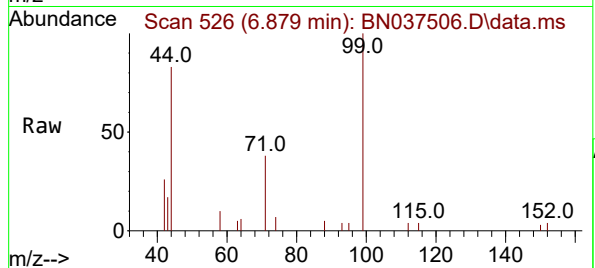




#5
Phenol-d6
Concen: 0.347 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

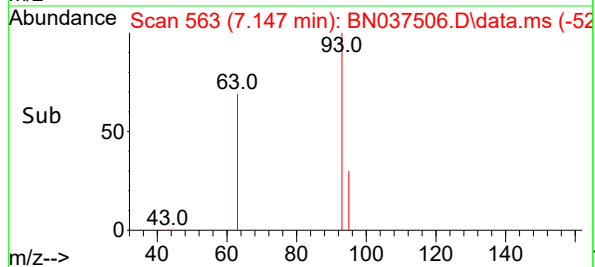
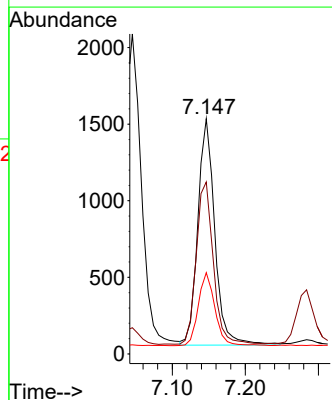
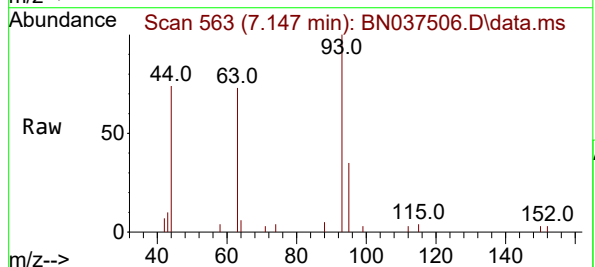
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

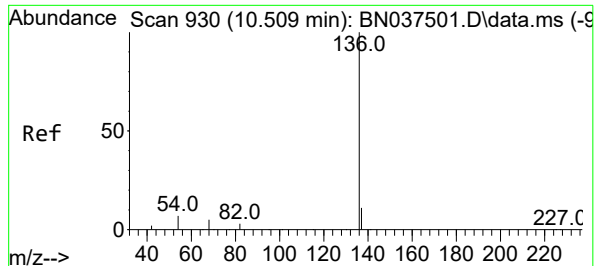
Tgt Ion: 99 Resp: 2407
Ion Ratio Lower Upper
99 100
42 20.7 17.1 25.7
71 34.6 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion: 93 Resp: 2398
Ion Ratio Lower Upper
93 100
63 71.8 58.2 87.4
95 31.4 25.3 37.9

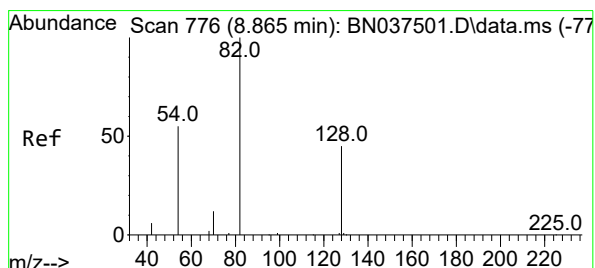
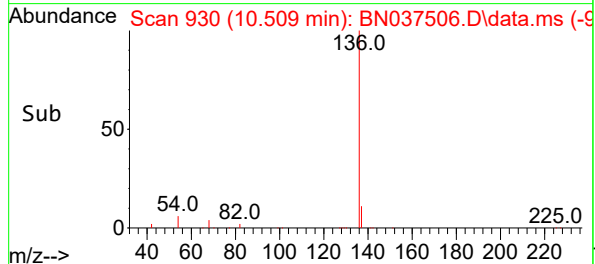
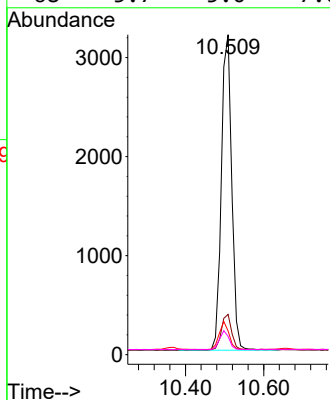
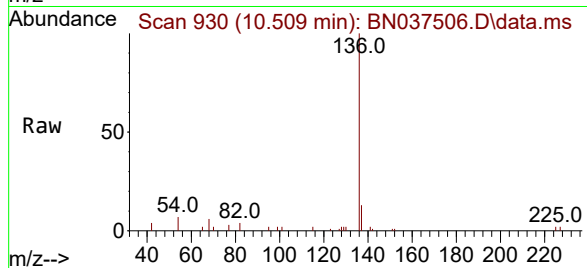




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

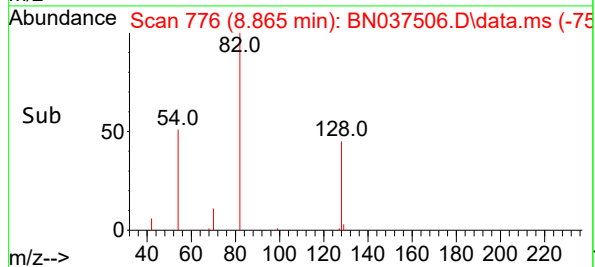
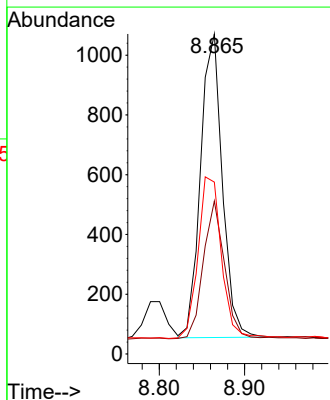
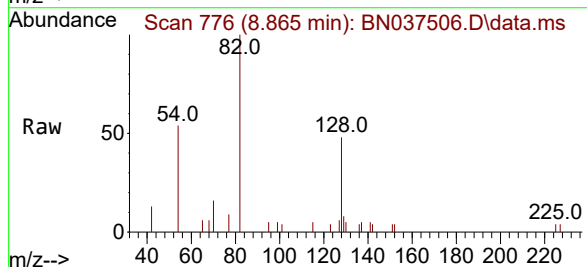
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

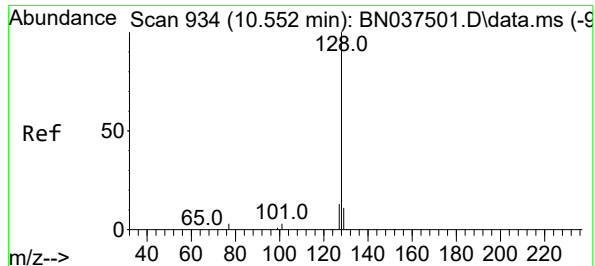
Tgt Ion:136	Resp:	5813
Ion	Ratio	Lower Upper
136	100	
137	12.6	9.8 14.8
54	7.4	6.6 9.8
68	5.7	5.0 7.6



#8
Nitrobenzene-d5
Concen: 0.415 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion: 82	Resp:	1802
Ion	Ratio	Lower Upper
82	100	
128	47.8	37.5 56.3
54	53.7	45.3 67.9





#9

Naphthalene

Concen: 0.389 ng

RT: 10.551 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

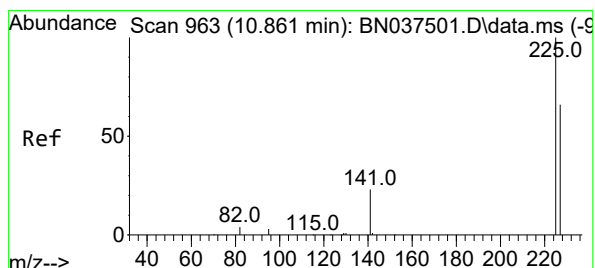
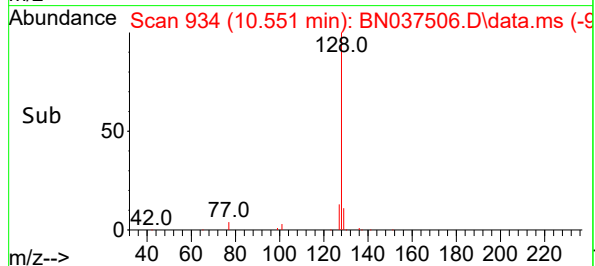
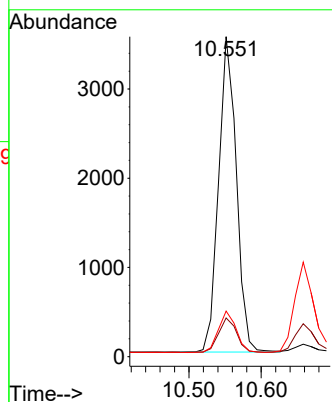
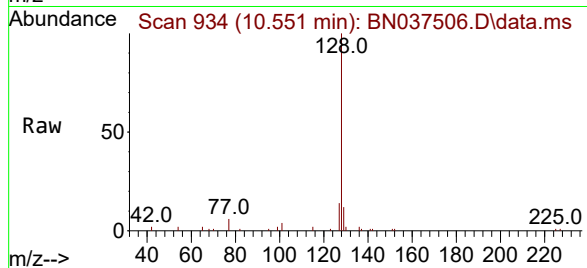
Tgt Ion:128 Resp: 6033

Ion Ratio Lower Upper

128 100

129 12.1 9.7 14.5

127 14.2 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.405 ng

RT: 10.861 min Scan# 963

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

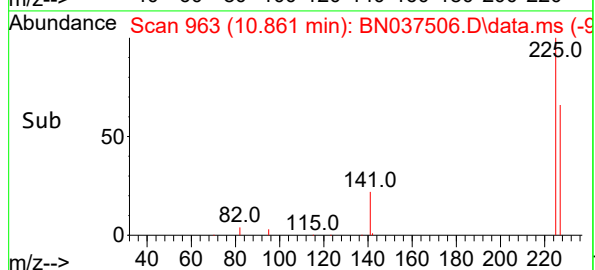
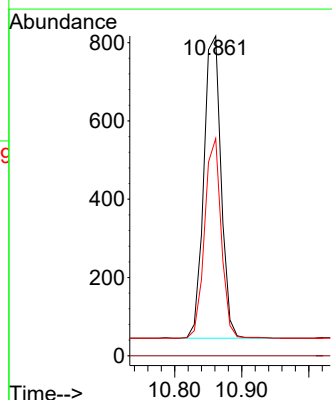
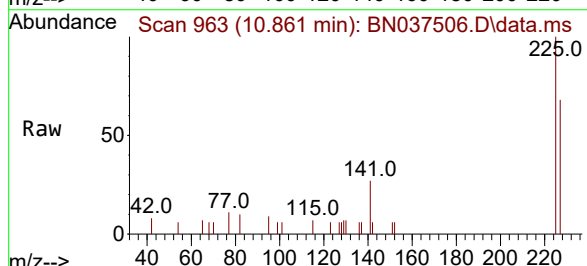
Tgt Ion:225 Resp: 1386

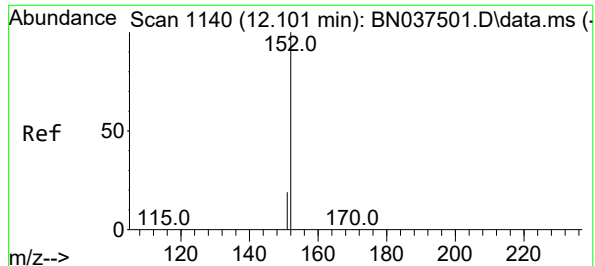
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.2 51.0 76.4

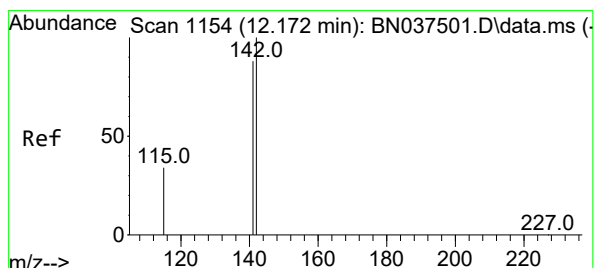
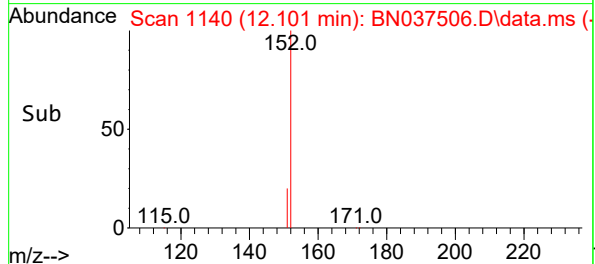
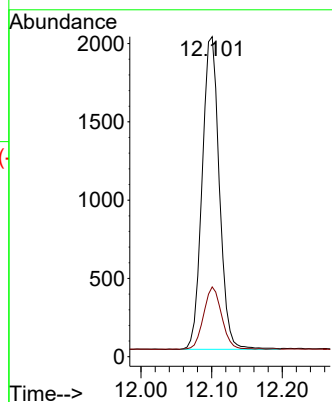
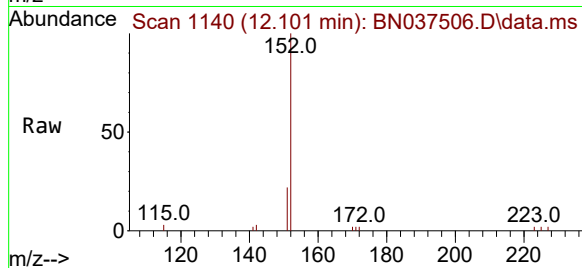




#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

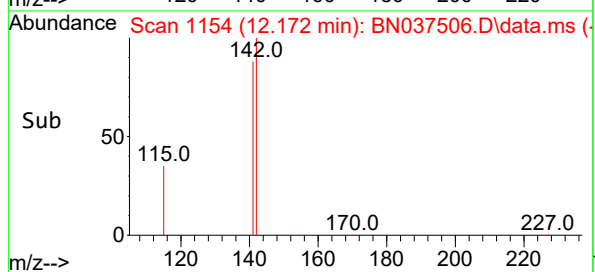
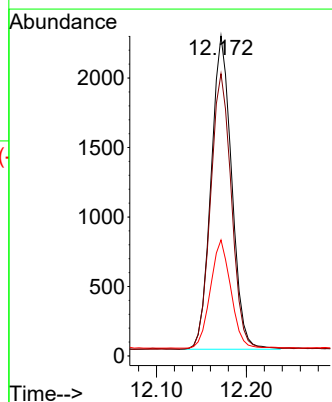
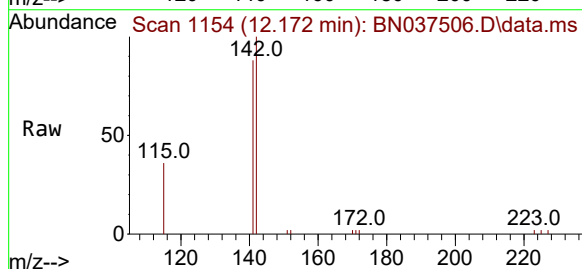
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

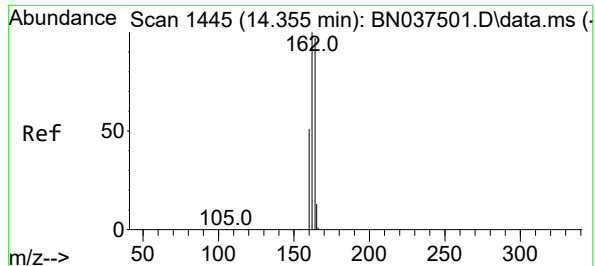
Tgt Ion:152 Resp: 3375
Ion Ratio Lower Upper
152 100
151 21.1 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion:142 Resp: 3595
Ion Ratio Lower Upper
142 100
141 88.2 71.0 106.4
115 36.3 29.0 43.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.355 min Scan# 1445

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

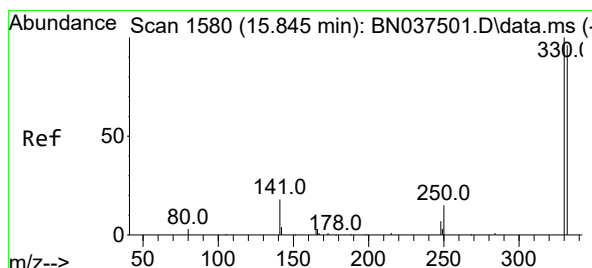
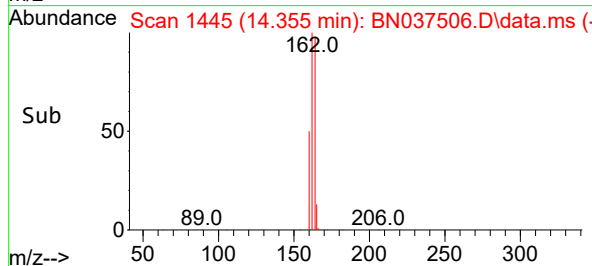
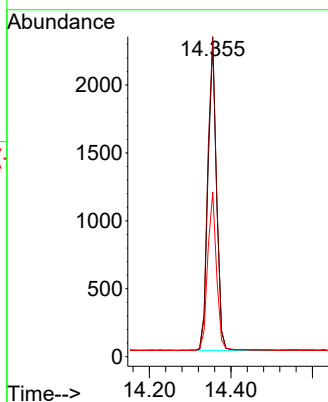
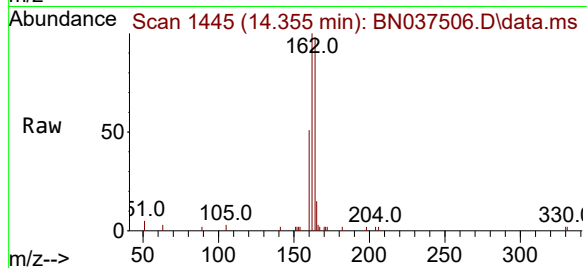
Tgt Ion:164 Resp: 3335

Ion Ratio Lower Upper

164 100

162 101.6 82.0 123.0

160 52.2 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 0.324 ng

RT: 15.845 min Scan# 1580

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

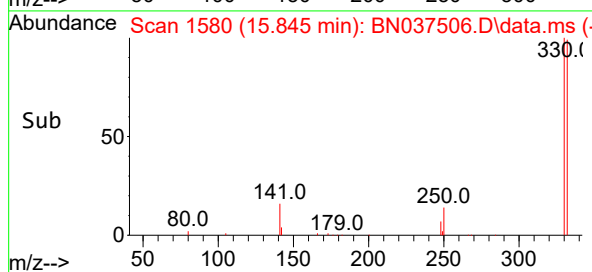
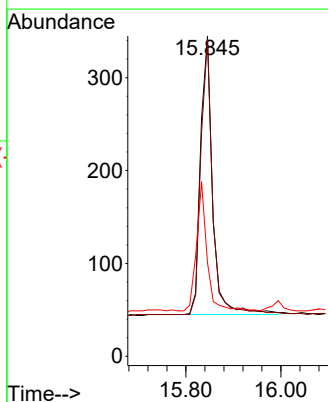
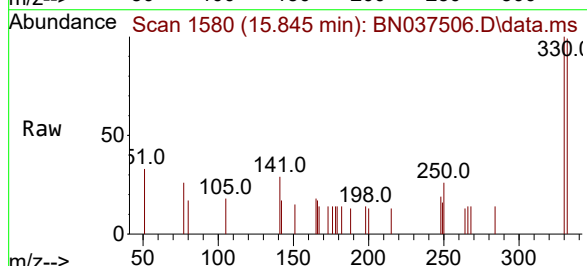
Tgt Ion:330 Resp: 531

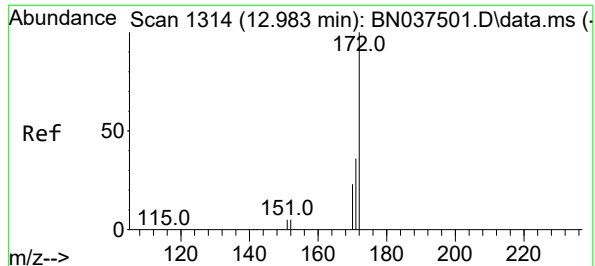
Ion Ratio Lower Upper

330 100

332 95.9 76.1 114.1

141 39.9 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.461 ng

RT: 12.983 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

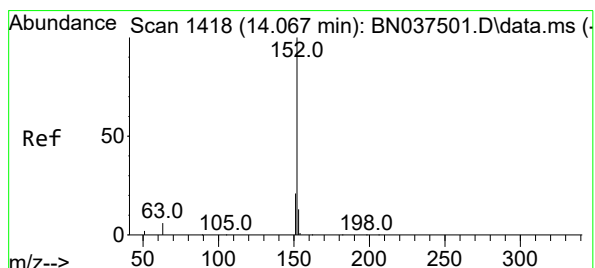
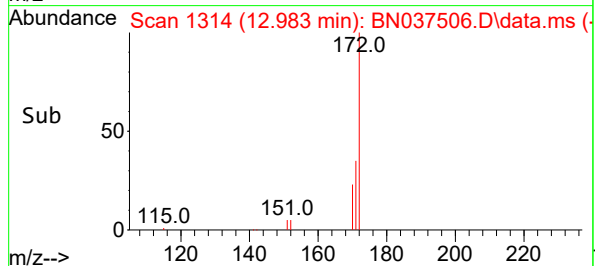
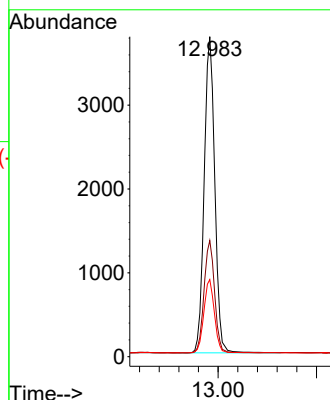
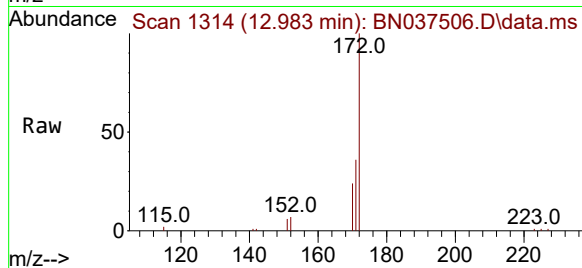
Tgt Ion:172 Resp: 8001

Ion Ratio Lower Upper

172 100

171 36.3 29.4 44.2

170 24.1 19.4 29.0



#16

Acenaphthylene

Concen: 0.417 ng

RT: 14.067 min Scan# 1418

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

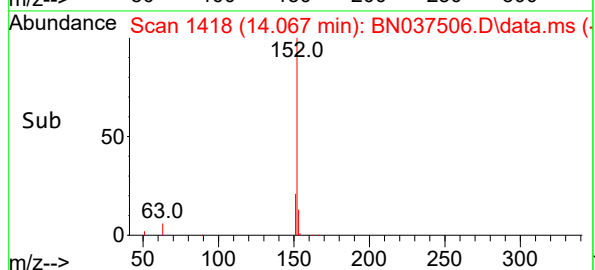
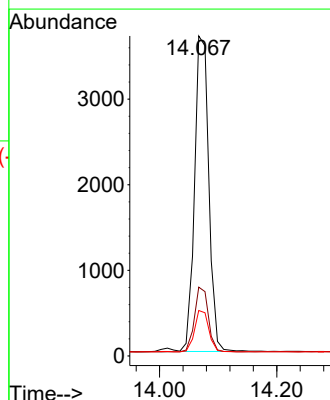
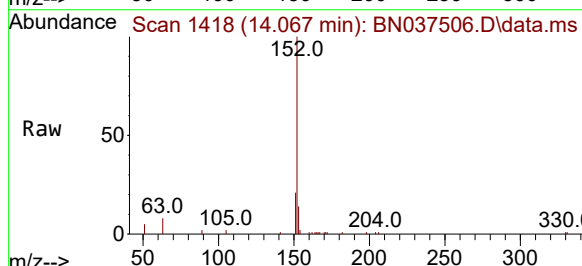
Tgt Ion:152 Resp: 6226

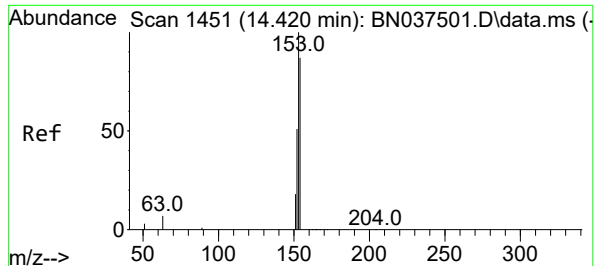
Ion Ratio Lower Upper

152 100

151 20.1 15.9 23.9

153 13.2 10.7 16.1





#17

Acenaphthene

Concen: 0.377 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

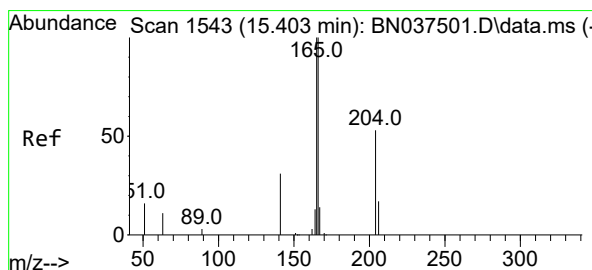
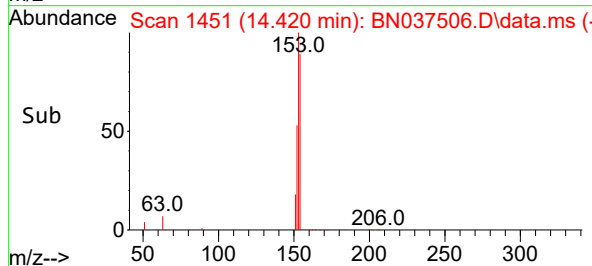
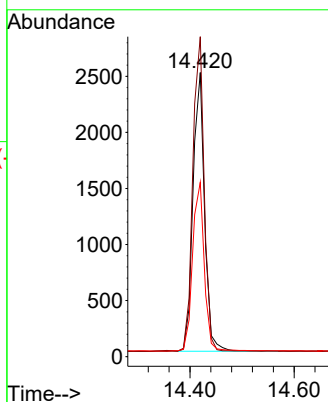
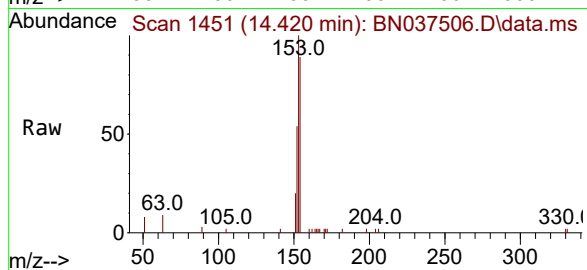
Tgt Ion:154 Resp: 3826

Ion Ratio Lower Upper

154 100

153 111.6 89.2 133.8

152 61.6 48.0 72.0



#18

Fluorene

Concen: 0.384 ng

RT: 15.403 min Scan# 1543

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

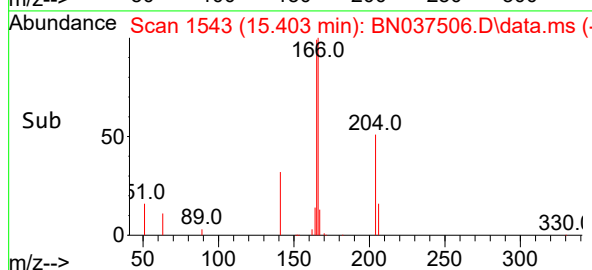
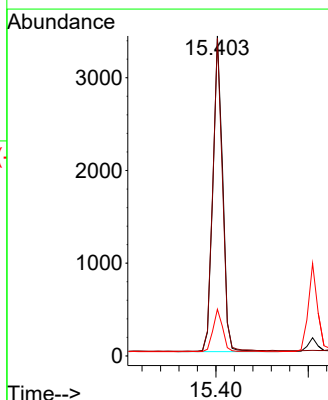
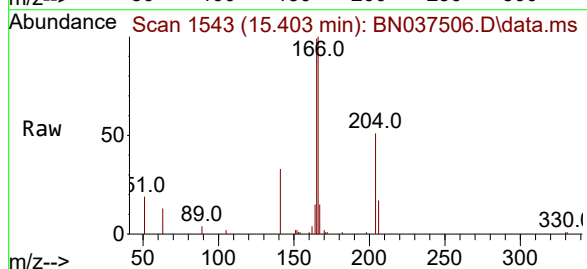
Tgt Ion:166 Resp: 5028

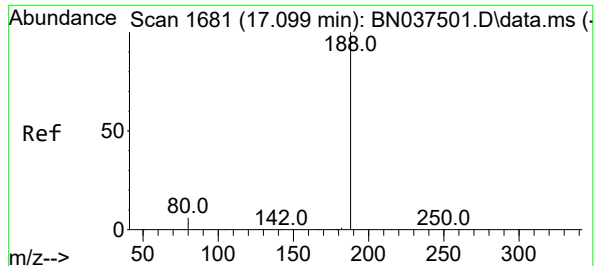
Ion Ratio Lower Upper

166 100

165 96.8 78.1 117.1

167 13.2 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

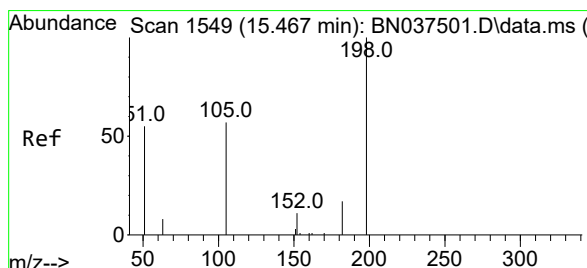
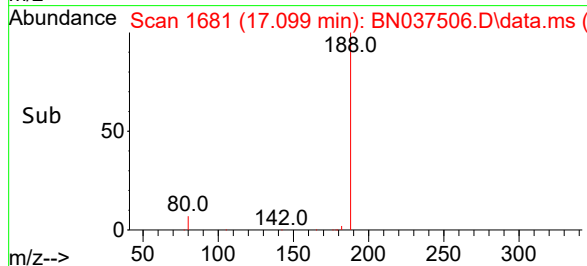
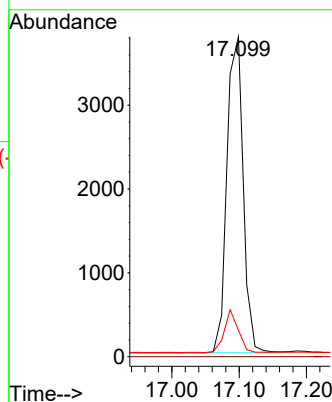
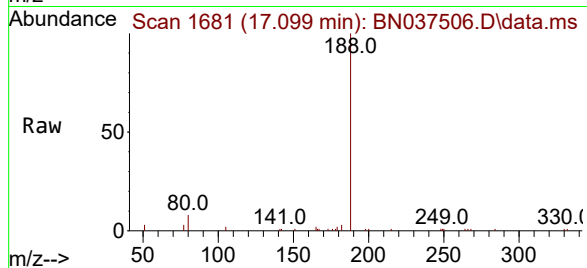
Tgt Ion:188 Resp: 6334

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.401 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

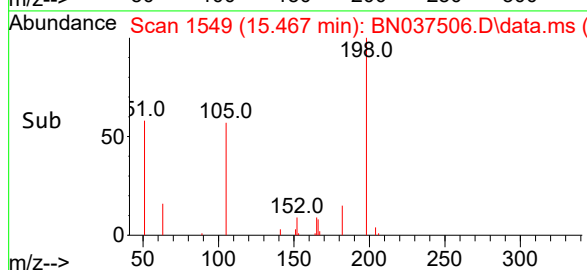
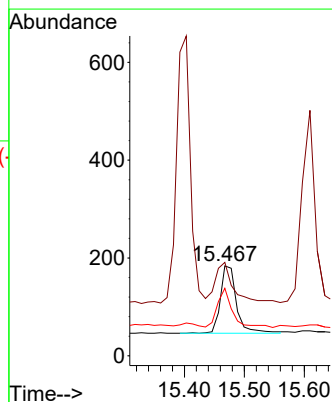
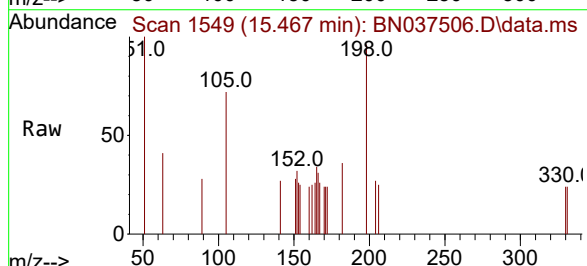
Tgt Ion:198 Resp: 267

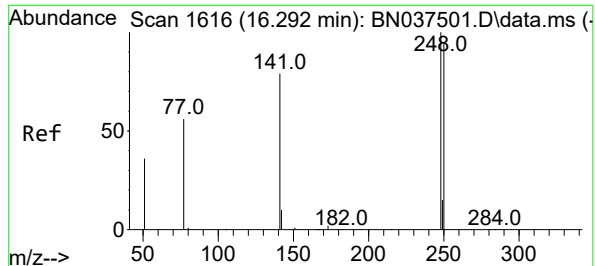
Ion Ratio Lower Upper

198 100

51 103.8 88.5 132.7

105 75.0 61.2 91.8

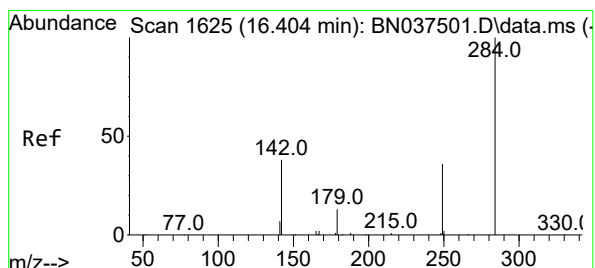
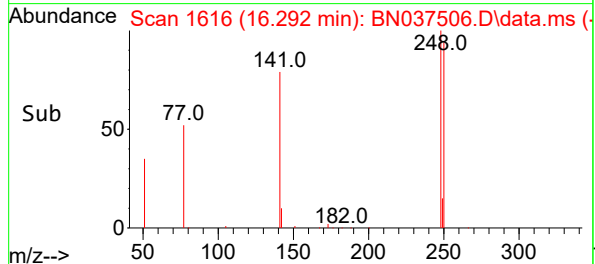
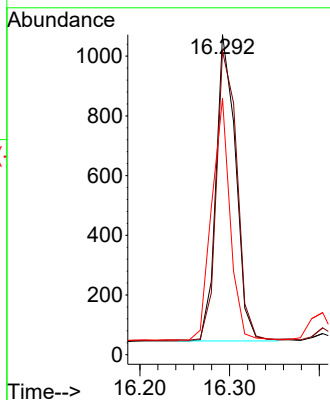
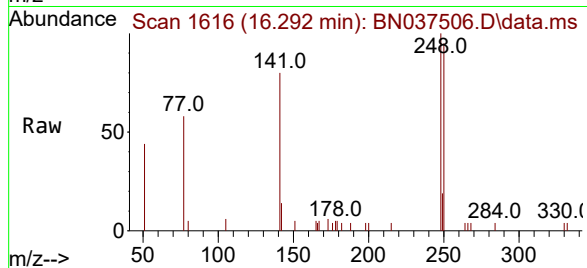




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

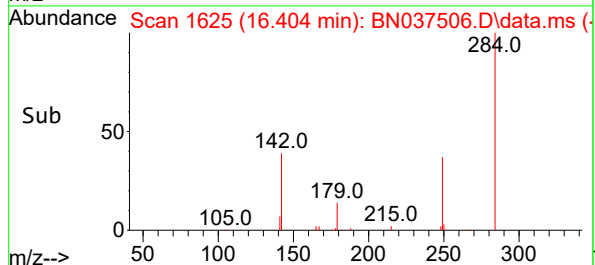
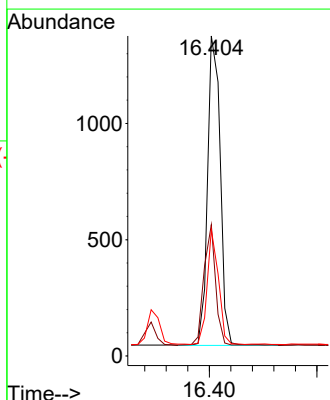
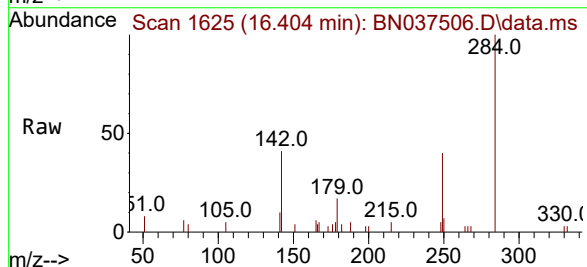
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

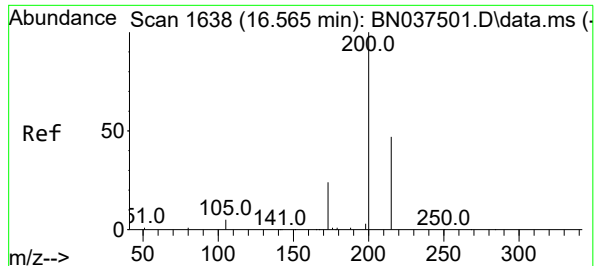
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.9	76.2	114.2
141	80.0	63.9	95.9



#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.9	28.9	43.3
249	33.0	25.8	38.6





#23

Atrazine

Concen: 0.371 ng

RT: 16.565 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

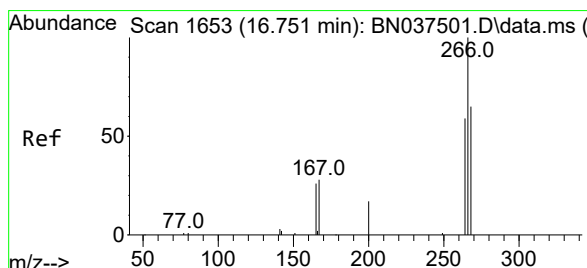
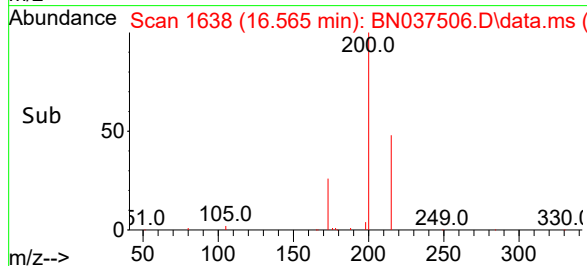
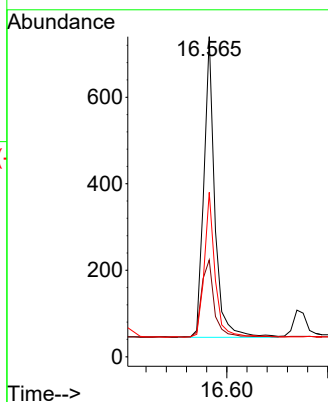
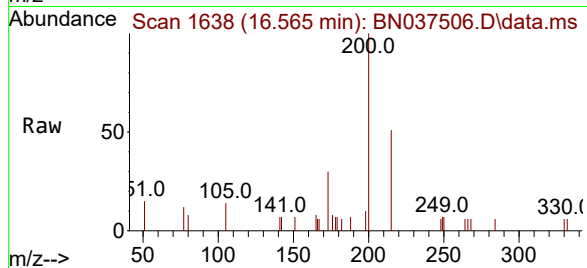
Tgt Ion:200 Resp: 1050

Ion Ratio Lower Upper

200 100

173 30.3 23.2 34.8

215 51.4 40.2 60.4



#24

Pentachlorophenol

Concen: 0.289 ng

RT: 16.751 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

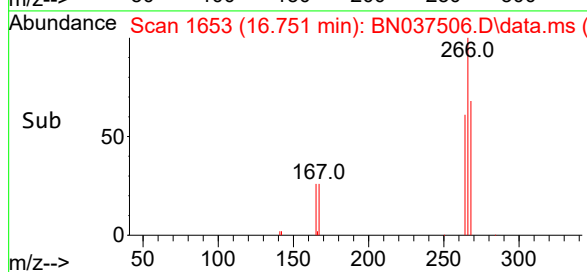
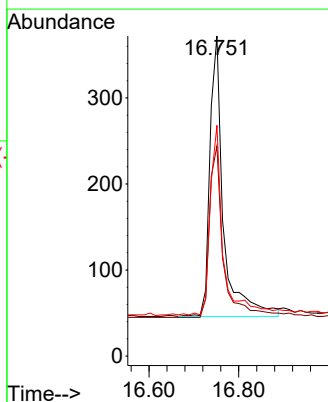
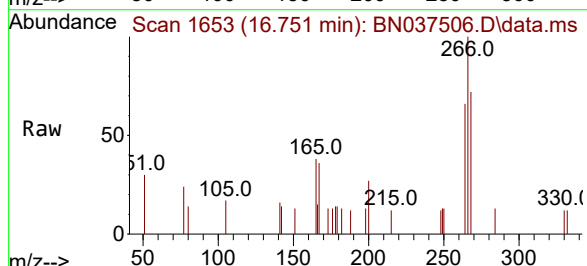
Tgt Ion:266 Resp: 679

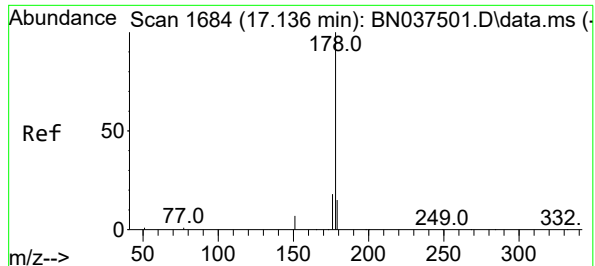
Ion Ratio Lower Upper

266 100

264 62.9 49.3 73.9

268 65.2 51.6 77.4





#25

Phenanthrene

Concen: 0.403 ng

RT: 17.136 min Scan# 1684

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

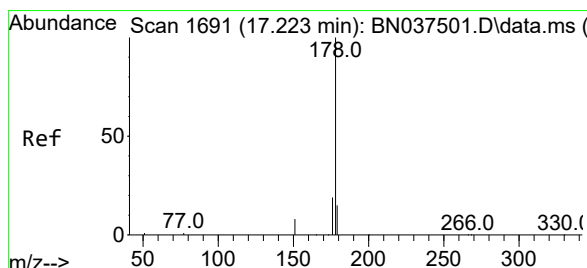
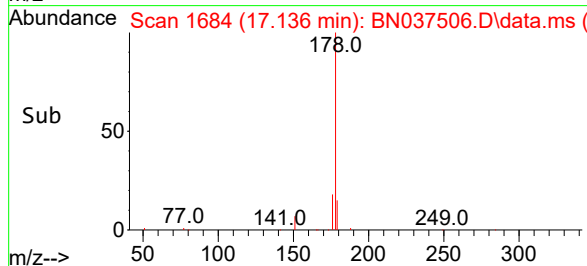
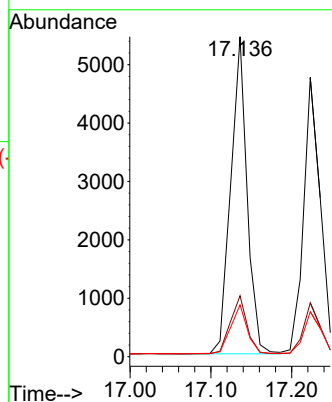
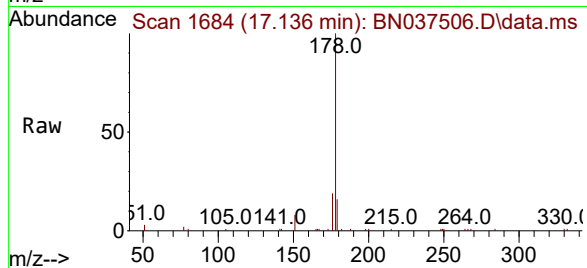
Tgt Ion:178 Resp: 7640

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

179 15.6 12.2 18.2



#26

Anthracene

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

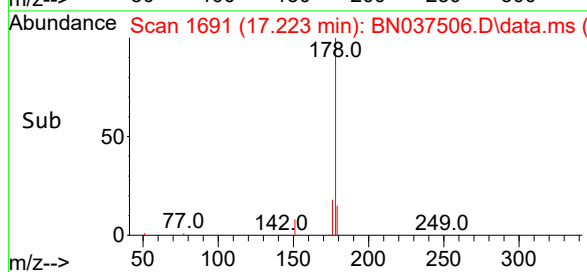
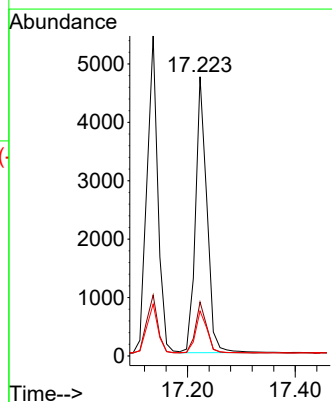
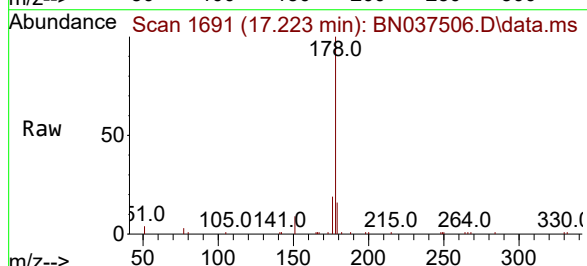
Tgt Ion:178 Resp: 6928

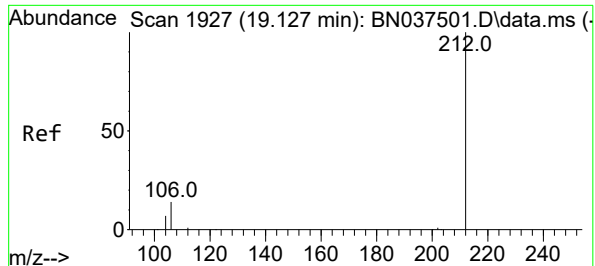
Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

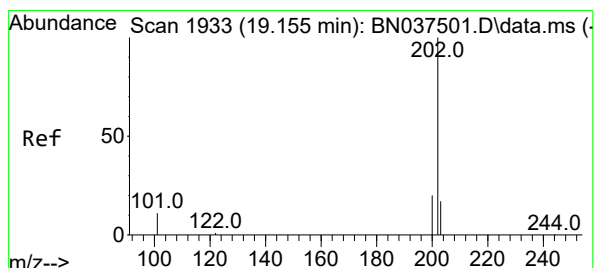
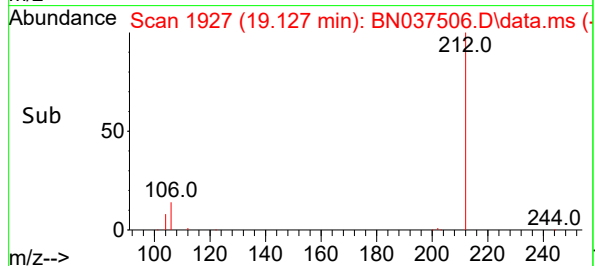
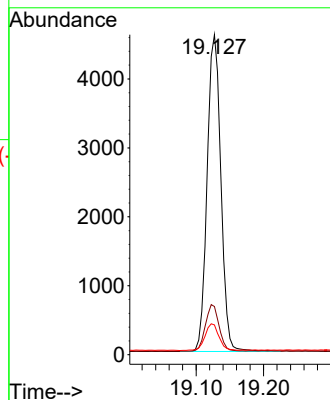
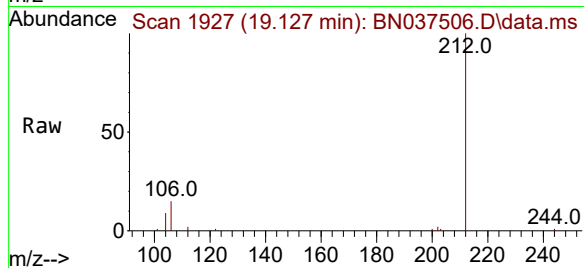
Tgt Ion:212 Resp: 6495

Ion Ratio Lower Upper

212 100

106 14.6 12.2 18.4

104 8.6 6.7 10.1



#28

Fluoranthene

Concen: 0.368 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

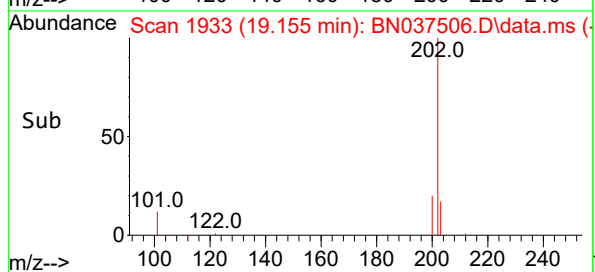
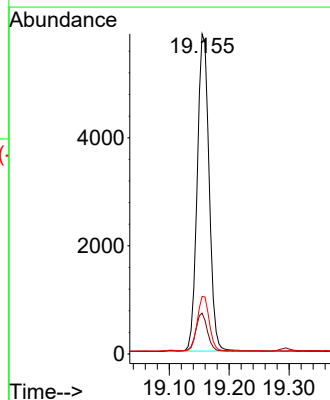
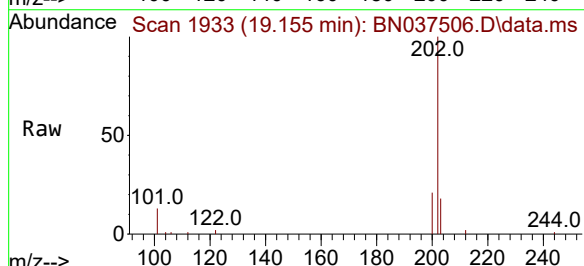
Tgt Ion:202 Resp: 8063

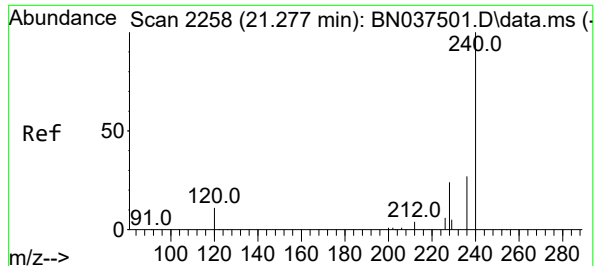
Ion Ratio Lower Upper

202 100

101 12.0 9.8 14.6

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

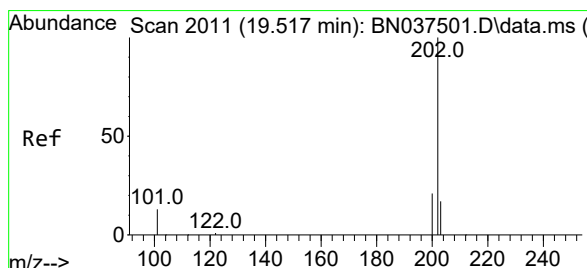
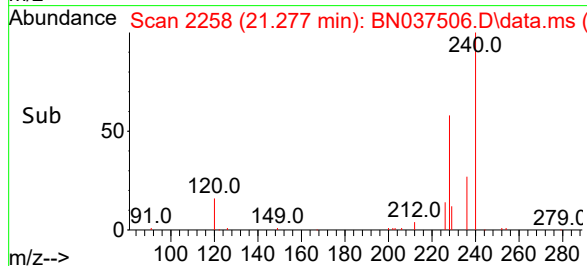
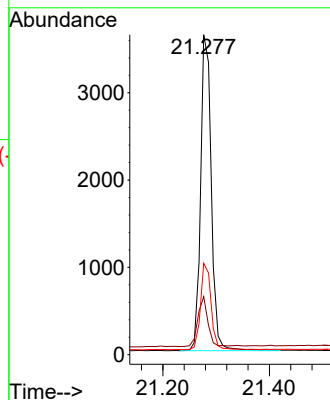
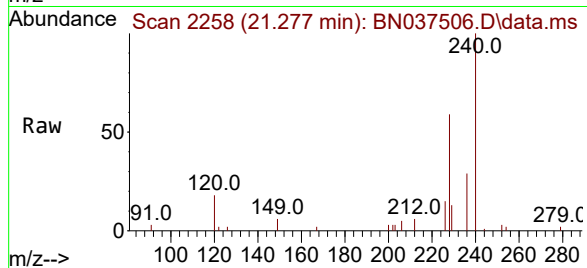
Tgt Ion:240 Resp: 5040

Ion Ratio Lower Upper

240 100

120 18.1 10.7 16.1#

236 28.5 22.6 33.8



#30

Pyrene

Concen: 0.394 ng

RT: 19.517 min Scan# 2011

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

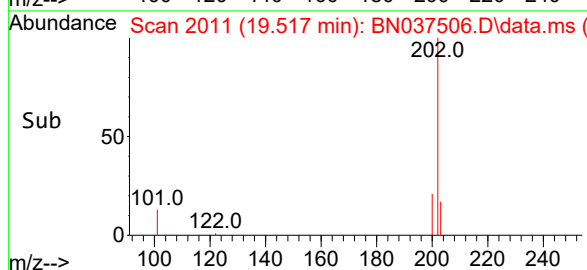
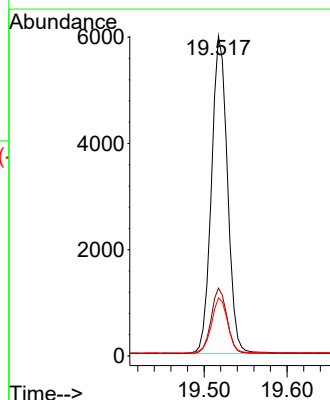
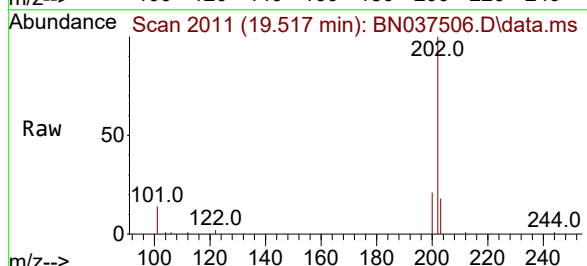
Tgt Ion:202 Resp: 8002

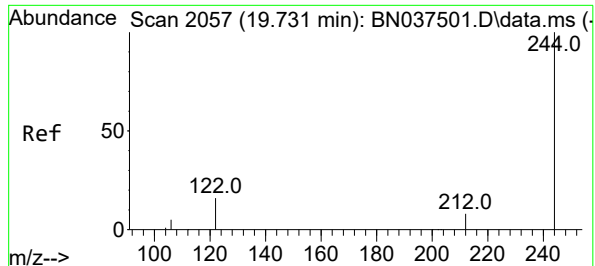
Ion Ratio Lower Upper

202 100

200 20.4 16.5 24.7

203 17.7 14.3 21.5

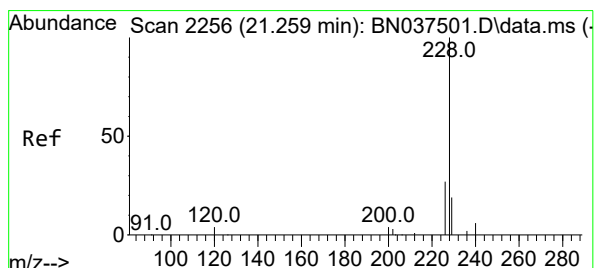
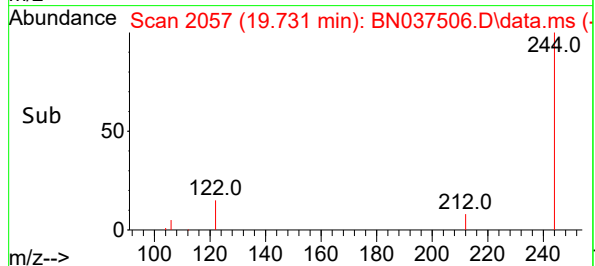
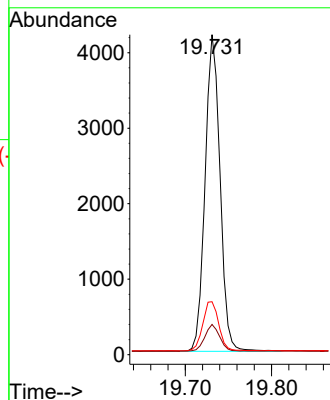
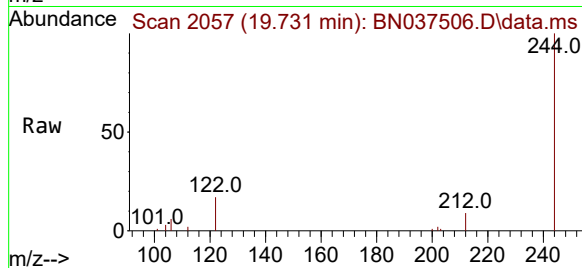




#31
Terphenyl-d14
Concen: 0.467 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

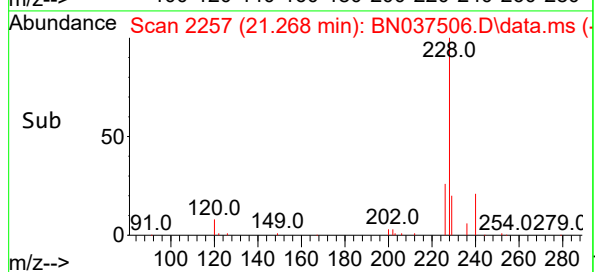
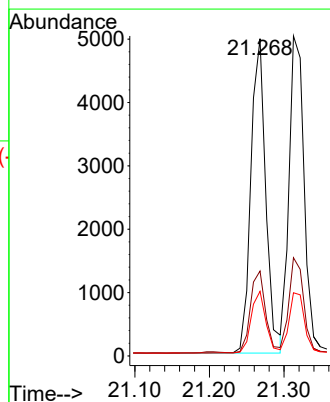
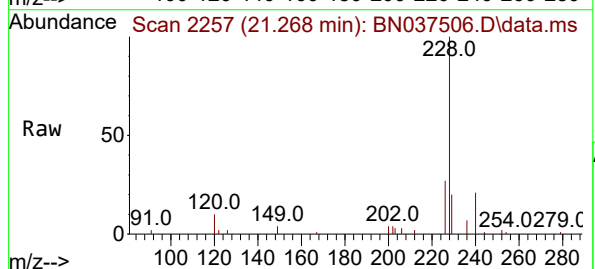
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

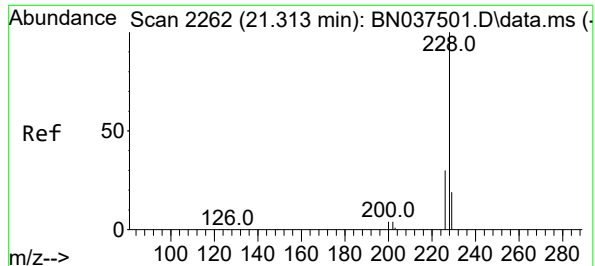
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.4	11.2
122	16.6	13.6	20.4



#32
Benzo(a)anthracene
Concen: 0.390 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.009 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.9	32.9
229	20.4	15.8	23.8





#33

Chrysene

Concen: 0.388 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037506.D

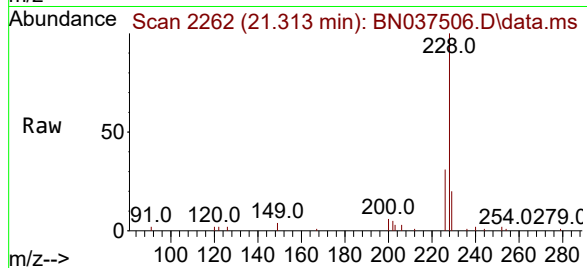
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



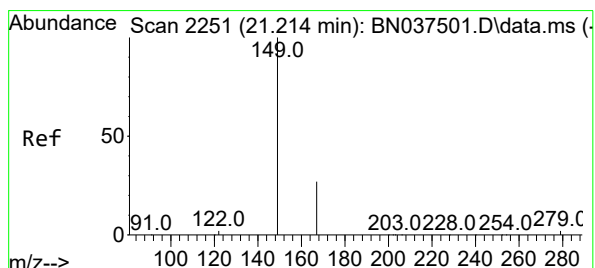
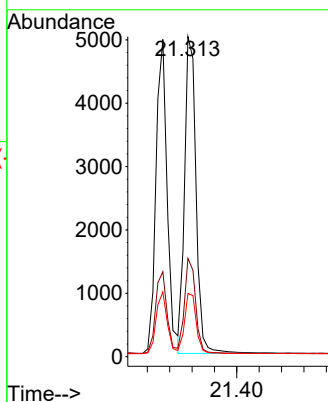
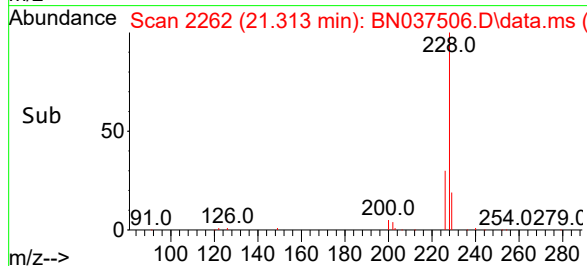
Tgt Ion:228 Resp: 7126

Ion Ratio Lower Upper

228 100

226 30.7 24.2 36.4

229 19.8 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

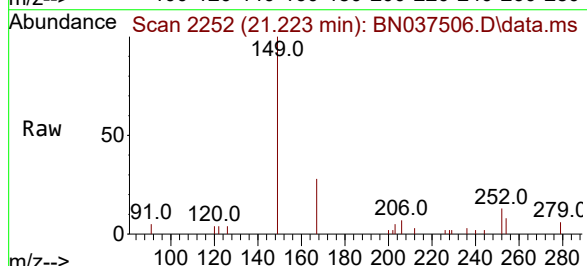
Concen: 0.341 ng

RT: 21.223 min Scan# 2252

Delta R.T. 0.009 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58



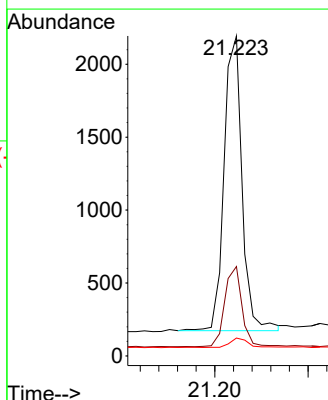
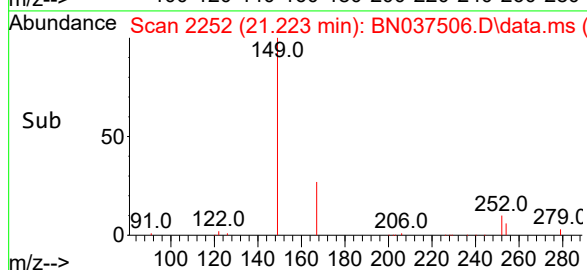
Tgt Ion:149 Resp: 2705

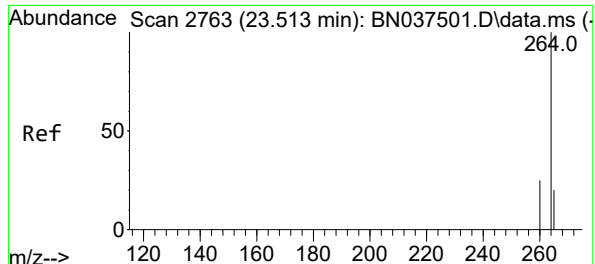
Ion Ratio Lower Upper

149 100

167 26.0 21.8 32.8

279 3.2 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.522 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037506.D

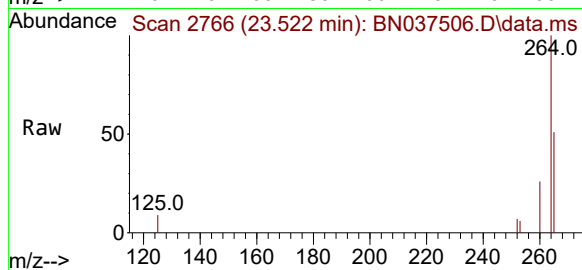
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



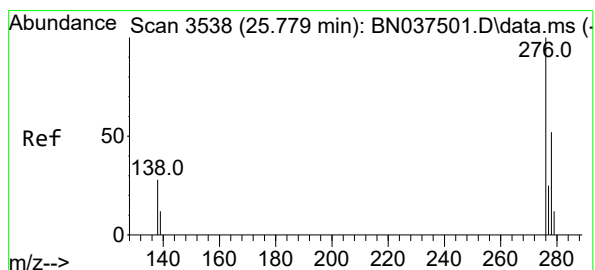
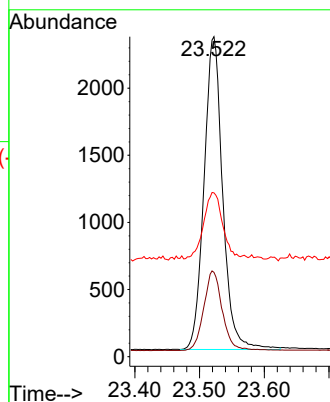
Tgt Ion:264 Resp: 4669

Ion Ratio Lower Upper

264 100

260 26.3 21.2 31.8

265 51.2 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.394 ng

RT: 25.785 min Scan# 3540

Delta R.T. 0.006 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

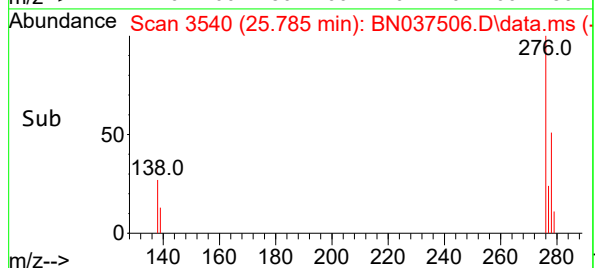
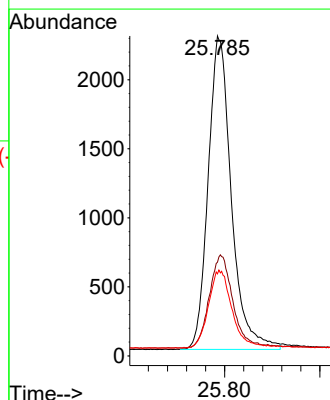
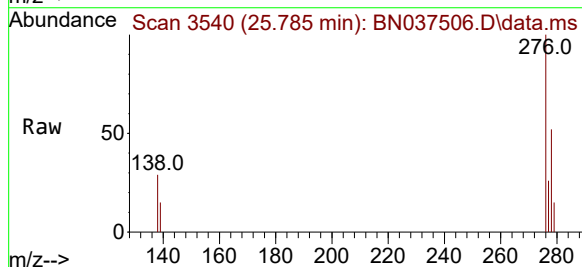
Tgt Ion:276 Resp: 7666

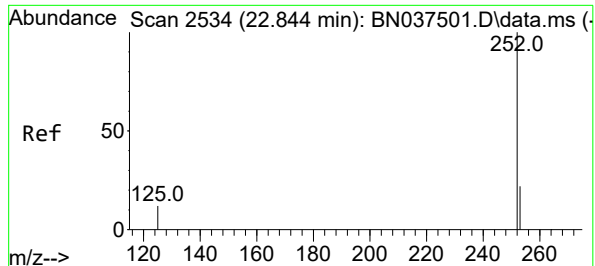
Ion Ratio Lower Upper

276 100

138 30.2 24.0 36.0

277 25.0 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.363 ng

RT: 22.847 min Scan# 2534

Delta R.T. 0.003 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

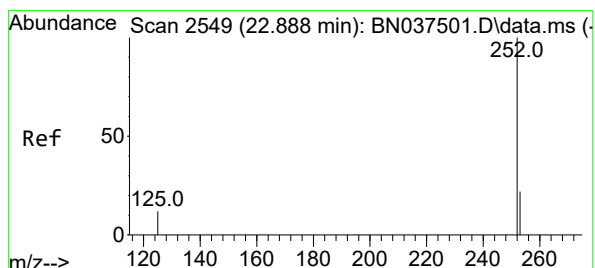
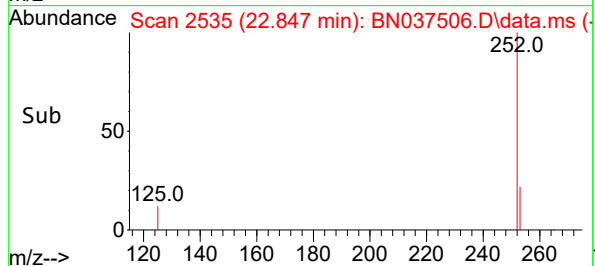
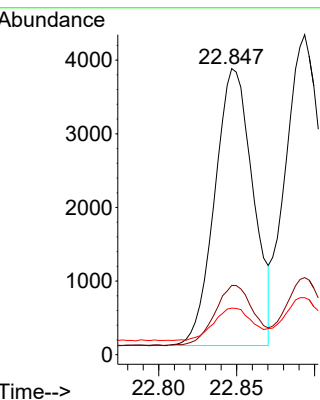
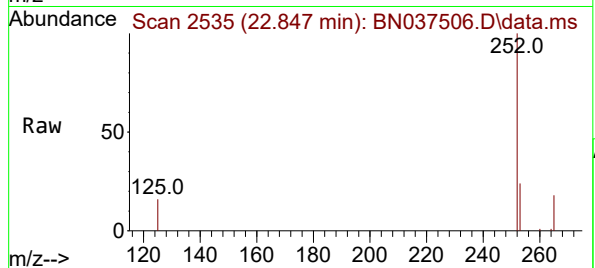
Tgt Ion:252 Resp: 6430

Ion Ratio Lower Upper

252 100

253 24.2 19.5 29.3

125 16.3 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.397 ng

RT: 22.894 min Scan# 2551

Delta R.T. 0.006 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

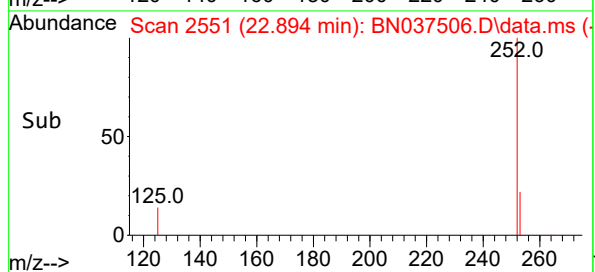
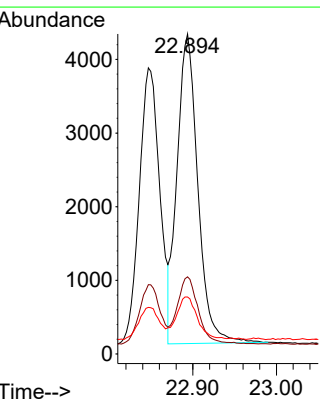
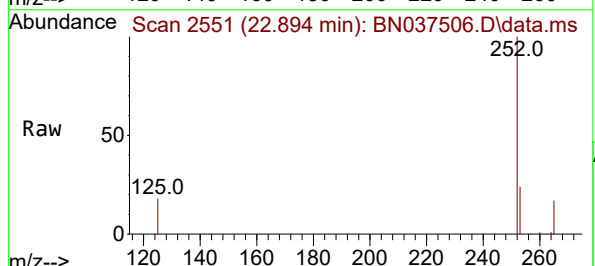
Tgt Ion:252 Resp: 7254

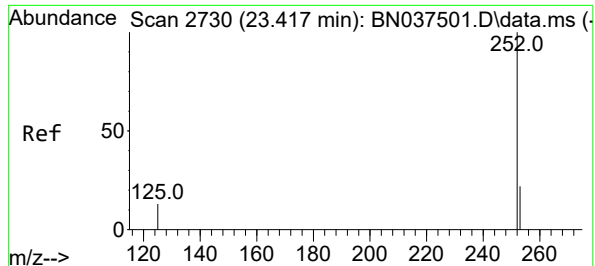
Ion Ratio Lower Upper

252 100

253 24.1 19.5 29.3

125 17.8 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.392 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037506.D

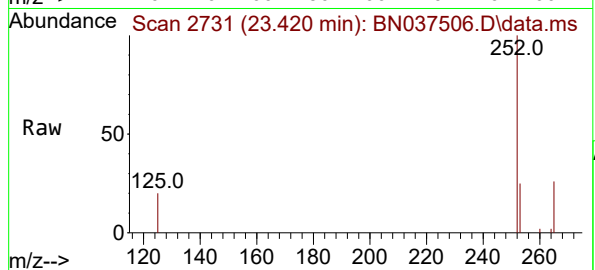
Acq: 15 Jul 2025 16:58

Instrument :

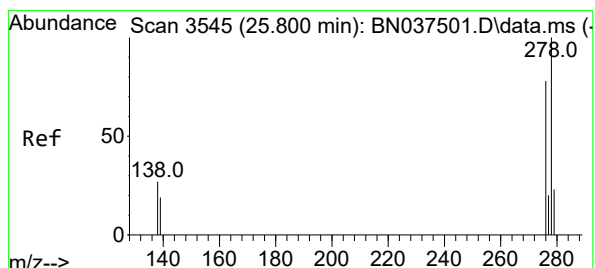
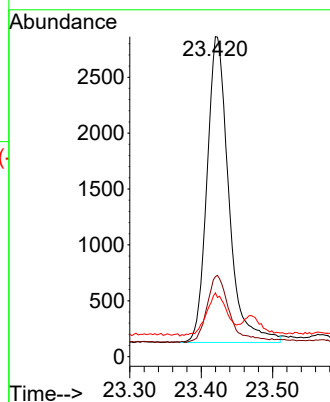
BNA_N

ClientSampleId :

ICVBN071525



Tgt Ion:	252	Resp:	5792
Ion Ratio	Lower	Upper	
252	100		
253	25.0	19.9	29.9
125	19.9	15.2	22.8



#40

Dibenzo(a,h)anthracene

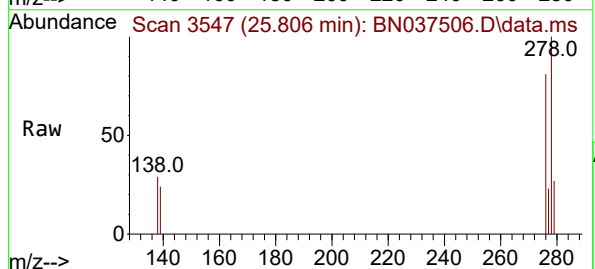
Concen: 0.394 ng

RT: 25.806 min Scan# 3547

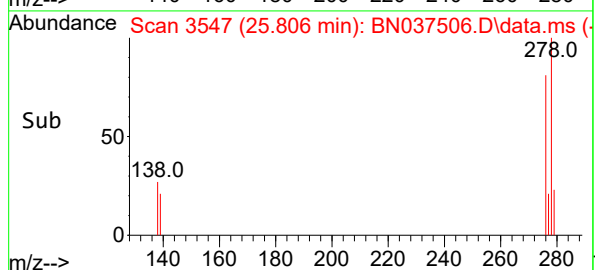
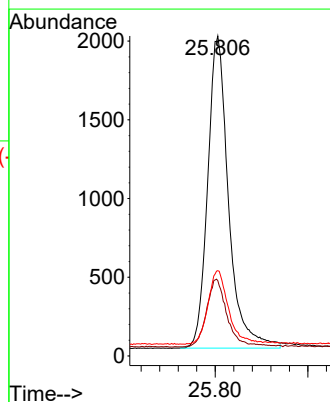
Delta R.T. 0.006 min

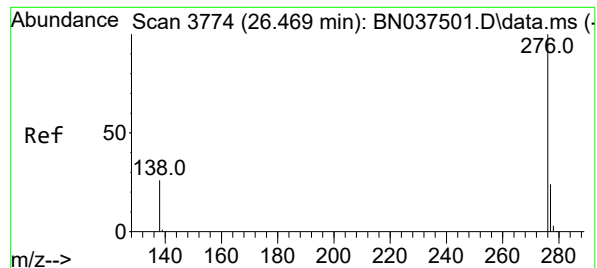
Lab File: BN037506.D

Acq: 15 Jul 2025 16:58



Tgt Ion:	278	Resp:	6203
Ion Ratio	Lower	Upper	
278	100		
139	23.6	17.5	26.3
279	26.7	21.3	31.9





#41

Benzo(g,h,i)perylene

Concen: 0.369 ng

RT: 26.472 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037506.D

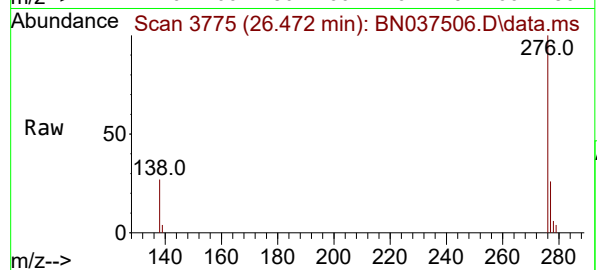
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



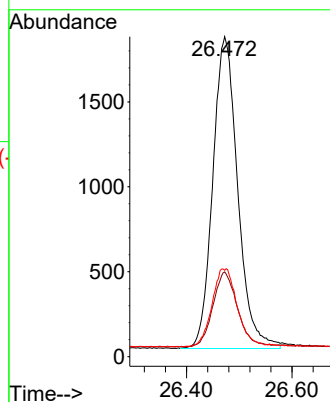
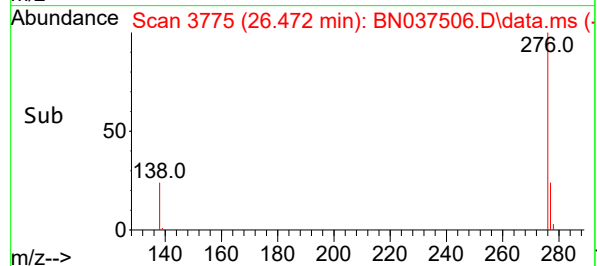
Tgt Ion:276 Resp: 6018

Ion Ratio Lower Upper

276 100

277 26.5 20.9 31.3

138 27.0 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
 Data File : BN037506.D
 Acq On : 15 Jul 2025 16:58
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN071525

Quant Time: Jul 15 17:34:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 17:33:01 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	98	0.00
2	1,4-Dioxane	0.385	0.452	-17.4	112	0.00
3	n-Nitrosodimethylamine	0.484	0.484	0.0	102	0.00
4 S	2-Fluorophenol	0.989	0.908	8.2	90	0.00
5 S	Phenol-d6	1.241	1.076	13.3	88	0.00
6	bis(2-Chloroethyl)ether	1.033	1.072	-3.8	102	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
8 S	Nitrobenzene-d5	0.299	0.310	-3.7	109	0.00
9	Naphthalene	1.067	1.038	2.7	99	0.00
10	Hexachlorobutadiene	0.236	0.238	-0.8	101	0.00
11 SURR	2-Methylnaphthalene-d10	0.574	0.581	-1.2	107	0.00
12	2-Methylnaphthalene	0.701	0.618	11.8	91	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
14 S	2,4,6-Tribromophenol	0.197	0.159	19.3	92	0.00
15 S	2-Fluorobiphenyl	2.080	2.399	-15.3	118	0.00
16	Acenaphthylene	1.792	1.867	-4.2	109	0.00
17	Acenaphthene	1.218	1.147	5.8	98	0.00
18	Fluorene	1.569	1.508	3.9	102	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.042	26.3#	100	0.00
21	4-Bromophenyl-phenylether	0.256	0.247	3.5	99	0.00
22	Hexachlorobenzene	0.331	0.341	-3.0	102	0.00
23	Atrazine	0.179	0.166	7.3	102	0.00
24	Pentachlorophenol	0.149	0.107	28.2#	84	0.00
25	Phenanthrene	1.198	1.206	-0.7	102	0.00
26	Anthracene	1.093	1.094	-0.1	106	0.00
27 SURR	Fluoranthene-d10	1.060	1.025	3.3	104	0.00
28	Fluoranthene	1.382	1.273	7.9	97	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	97	0.00
30	Pyrene	1.612	1.588	1.5	96	0.00
31 S	Terphenyl-d14	0.859	1.003	-16.8	115	0.00
32	Benzo(a)anthracene	1.401	1.367	2.4	99	0.00
33	Chrysene	1.459	1.414	3.1	95	0.00
34	Bis(2-ethylhexyl)phthalate	0.630	0.537	14.8	92	0.00
35 I	Perylene-d12	1.000	1.000	0.0	97	0.00
36	Indeno(1,2,3-cd)pyrene	1.666	1.642	1.4	105	0.00
37	Benzo(b)fluoranthene	1.518	1.377	9.3	92	0.00
38	Benzo(k)fluoranthene	1.567	1.554	0.8	102	0.00
39 C	Benzo(a)pyrene	1.267	1.241	2.1	101	0.00
40	Dibenzo(a,h)anthracene	1.349	1.329	1.5	106	0.00
41	Benzo(g,h,i)perylene	1.397	1.289	7.7	96	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037506.D
Acq On : 15 Jul 2025 16:58
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN071525

Quant Time: Jul 15 17:34:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:33:01 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	98	0.00
2	1,4-Dioxane	0.400	0.470	-17.5	112	0.00
3	n-Nitrosodimethylamine	0.400	0.401	-0.3	102	0.00
4 S	2-Fluorophenol	0.400	0.367	8.3	90	0.00
5 S	Phenol-d6	0.400	0.347	13.3	88	0.00
6	bis(2-Chloroethyl)ether	0.400	0.415	-3.7	102	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	100	0.00
8 S	Nitrobenzene-d5	0.400	0.415	-3.7	109	0.00
9	Naphthalene	0.400	0.389	2.8	99	0.00
10	Hexachlorobutadiene	0.400	0.405	-1.3	101	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.405	-1.3	107	0.00
12	2-Methylnaphthalene	0.400	0.353	11.8	91	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	100	0.00
14 S	2,4,6-Tribromophenol	0.400	0.324	19.0	92	0.00
15 S	2-Fluorobiphenyl	0.400	0.461	-15.3	118	0.00
16	Acenaphthylene	0.400	0.417	-4.2	109	0.00
17	Acenaphthene	0.400	0.377	5.8	98	0.00
18	Fluorene	0.400	0.384	4.0	102	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	98	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.401	-0.3	100	0.00
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	99	0.00
22	Hexachlorobenzene	0.400	0.412	-3.0	102	0.00
23	Atrazine	0.400	0.371	7.3	102	0.00
24	Pentachlorophenol	0.400	0.289	27.8#	84	0.00
25	Phenanthrene	0.400	0.403	-0.8	102	0.00
26	Anthracene	0.400	0.400	0.0	106	0.00
27 SURR	Fluoranthene-d10	0.400	0.387	3.3	104	0.00
28	Fluoranthene	0.400	0.368	8.0	97	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	97	0.00
30	Pyrene	0.400	0.394	1.5	96	0.00
31 S	Terphenyl-d14	0.400	0.467	-16.8	115	0.00
32	Benzo(a)anthracene	0.400	0.390	2.5	99	0.00
33	Chrysene	0.400	0.388	3.0	95	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.341	14.8	92	0.00
35 I	Perylene-d12	0.400	0.400	0.0	97	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.394	1.5	105	0.00
37	Benzo(b)fluoranthene	0.400	0.363	9.3	92	0.00
38	Benzo(k)fluoranthene	0.400	0.397	0.8	102	0.00
39 C	Benzo(a)pyrene	0.400	0.392	2.0	101	0.00
40	Dibenzo(a,h)anthracene	0.400	0.394	1.5	106	0.00
41	Benzo(g,h,i)perylene	0.400	0.369	7.8	96	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: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2746
 Instrument ID: BNA_N Calibration Date/Time: 08/05/2025 09:35
 Lab File ID: BN037559.D Init. Calib. Date(s): 07/15/2025 07/15/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:36 16:14
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.574	0.515		-10.3	20.0
Fluoranthene-d10	1.060	0.889		-16.1	20.0
2-Fluorophenol	0.989	0.880		-11.0	20.0
Phenol-d6	1.241	1.098		-11.5	20.0
Nitrobenzene-d5	0.299	0.279		-6.7	20.0
2-Fluorobiphenyl	2.080	2.181		4.9	20.0
2,4,6-Tribromophenol	0.197	0.140		-28.9	20.0
Terphenyl-d14	0.859	0.738		-14.1	20.0
1,4-Dioxane	0.385	0.404		4.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
 Data File : BN037559.D
 Acq On : 05 Aug 2025 09:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Aug 06 01:38:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

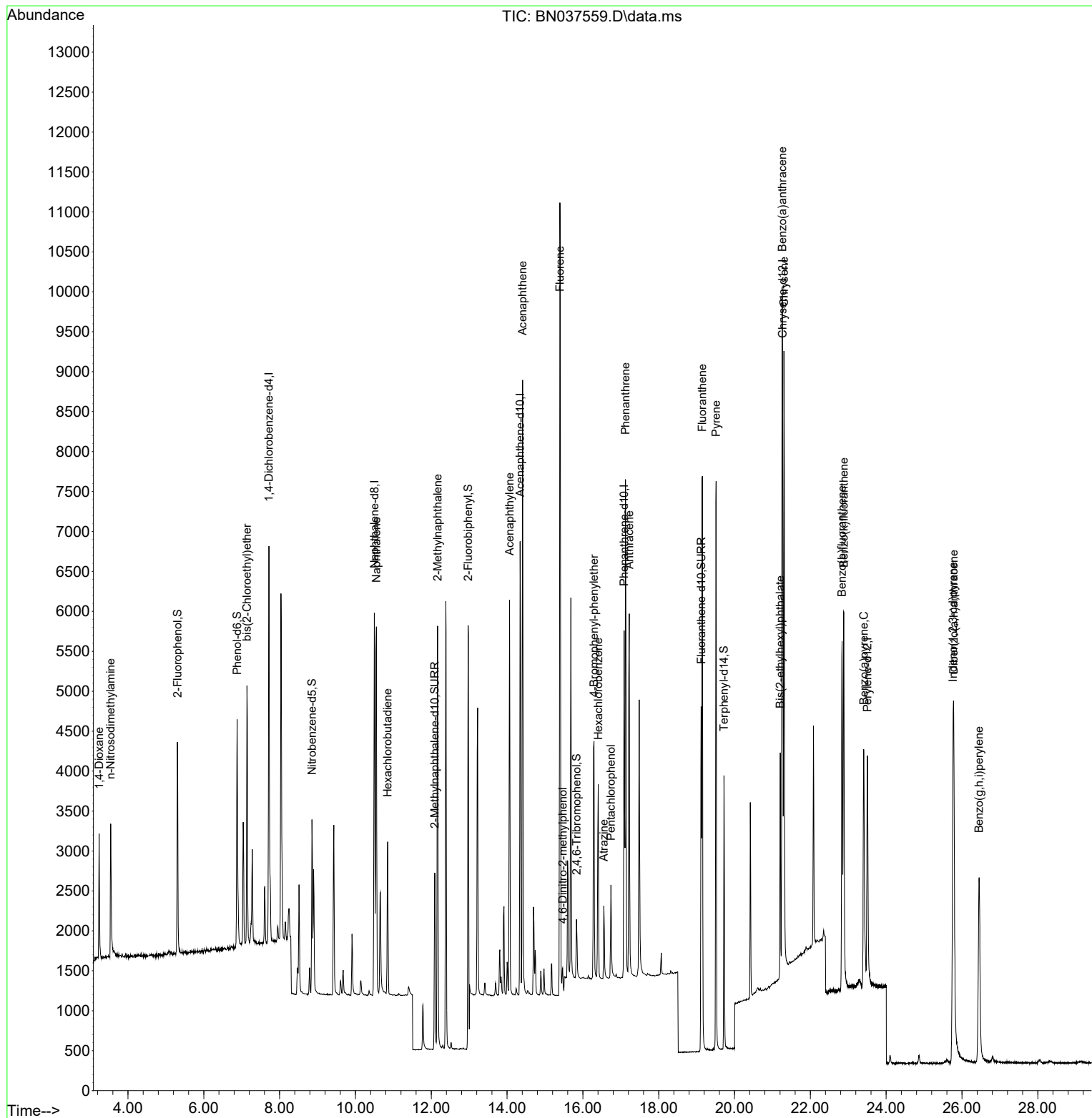
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2357	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	6191	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	3180	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	5684	0.400	ng	#-0.01
29) Chrysene-d12	21.268	240	4703	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	3993	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2075	0.356	ng	0.00
5) Phenol-d6	6.879	99	2587	0.354	ng	0.00
8) Nitrobenzene-d5	8.854	82	1728	0.373	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	3187	0.359	ng	-0.01
14) 2,4,6-Tribromophenol	15.833	330	445	0.285	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	6937	0.419	ng	-0.01
27) Fluoranthene-d10	19.122	212	5051	0.335	ng	0.00
31) Terphenyl-d14	19.722	244	3470	0.343	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	952	0.420	ng	98
3) n-Nitrosodimethylamine	3.543	42	1221	0.428	ng	# 85
6) bis(2-Chloroethyl)ether	7.139	93	2365	0.389	ng	98
9) Naphthalene	10.551	128	6332	0.384	ng	100
10) Hexachlorobutadiene	10.850	225	1516	0.415	ng	# 100
12) 2-Methylnaphthalene	12.167	142	3959	0.365	ng	99
16) Acenaphthylene	14.067	152	5250	0.369	ng	100
17) Acenaphthene	14.409	154	3599	0.372	ng	96
18) Fluorene	15.392	166	4557	0.365	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	256	0.421	ng	# 80
21) 4-Bromophenyl-phenylether	16.292	248	1367	0.375	ng	# 84
22) Hexachlorobenzene	16.404	284	1931	0.410	ng	96
23) Atrazine	16.553	200	790	0.311	ng	# 93
24) Pentachlorophenol	16.739	266	595	0.282	ng	99
25) Phenanthrene	17.124	178	6657	0.391	ng	99
26) Anthracene	17.223	178	5544	0.357	ng	100
28) Fluoranthene	19.150	202	6780	0.345	ng	98
30) Pyrene	19.513	202	6578	0.347	ng	100
32) Benzo(a)anthracene	21.259	228	6199	0.376	ng	99
33) Chrysene	21.304	228	6716	0.392	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	2480	0.335	ng	100
36) Indeno(1,2,3-cd)pyrene	25.765	276	6340	0.381	ng	97
37) Benzo(b)fluoranthene	22.835	252	5635	0.372	ng	99
38) Benzo(k)fluoranthene	22.882	252	6267	0.401	ng	98
39) Benzo(a)pyrene	23.408	252	4850	0.384	ng	98
40) Dibenzo(a,h)anthracene	25.782	278	4787	0.355	ng	98
41) Benzo(g,h,i)perylene	26.452	276	5081	0.364	ng	98

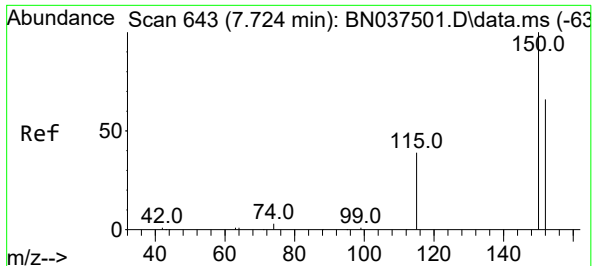
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037559.D
Acq On : 05 Aug 2025 09:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 06 01:38:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

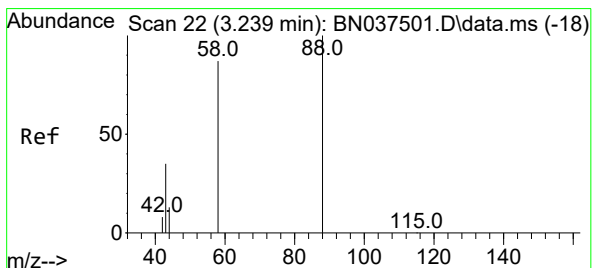
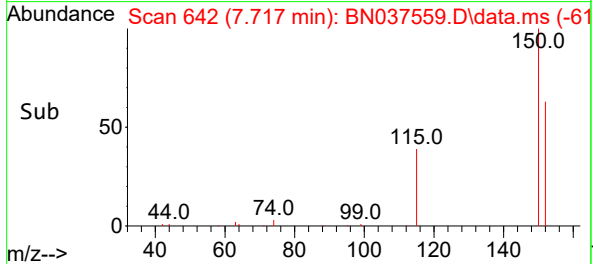
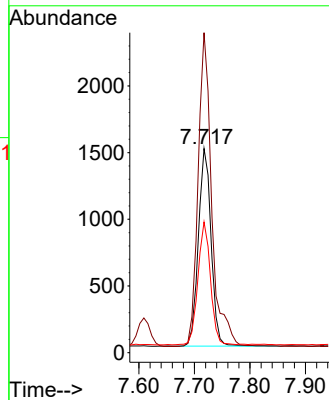
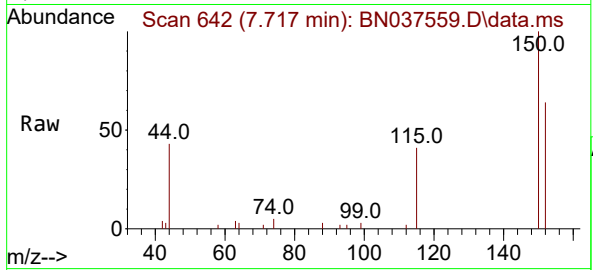




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

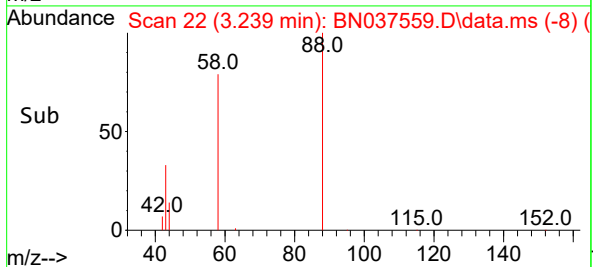
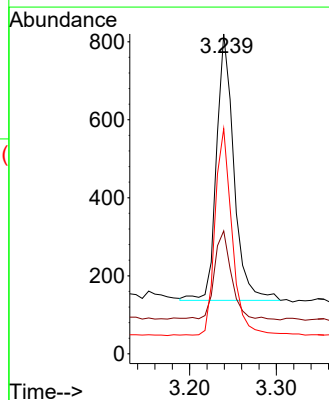
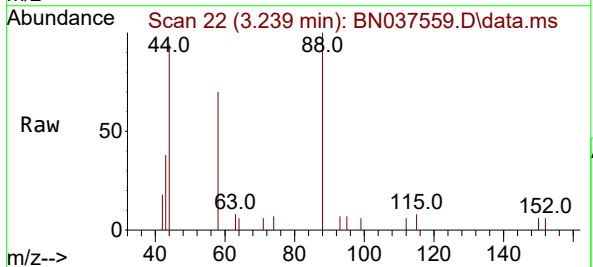
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2357
Ion Ratio Lower Upper
152 100
150 156.7 119.8 179.8
115 64.0 49.1 73.7

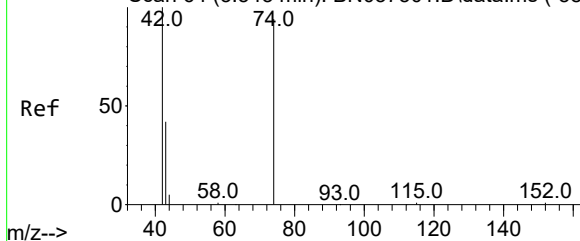


#2
1,4-Dioxane
Concen: 0.420 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion: 88 Resp: 952
Ion Ratio Lower Upper
88 100
43 33.9 27.5 41.3
58 76.2 62.7 94.1



Abundance Scan 64 (3.543 min): BN037501.D\data.ms (-58)



#3

n-Nitrosodimethylamine

Concen: 0.428 ng

RT: 3.543 min Scan# 64

Delta R.T. -0.000 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

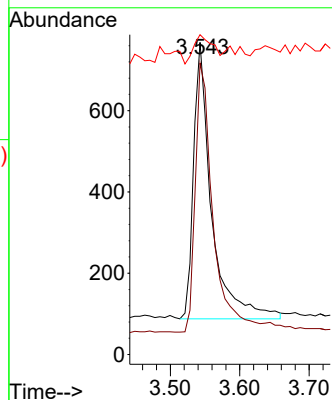
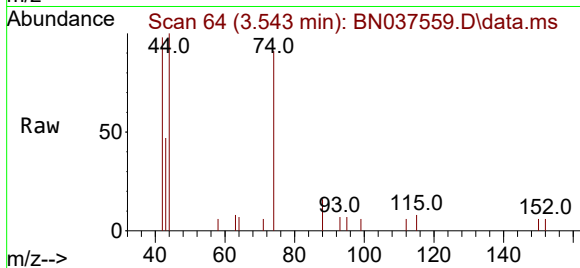
Tgt Ion: 42 Resp: 1221

Ion Ratio Lower Upper

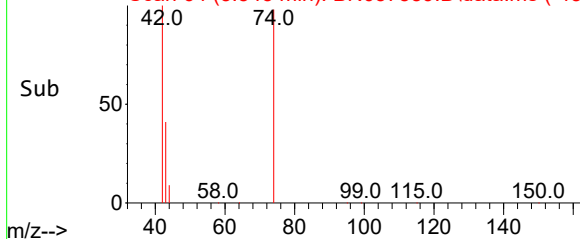
42 100

74 98.3 91.8 137.6

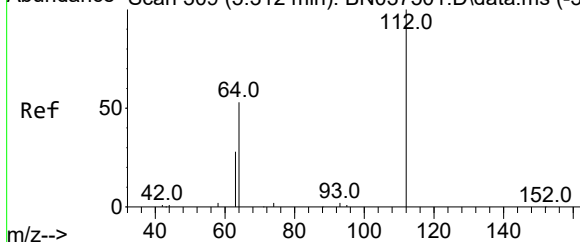
44 11.3 15.0 22.6#



Abundance Scan 64 (3.543 min): BN037559.D\data.ms (-43)



Abundance Scan 309 (5.312 min): BN037501.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.356 ng

RT: 5.305 min Scan# 308

Delta R.T. -0.007 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

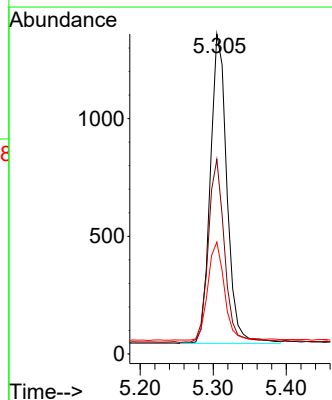
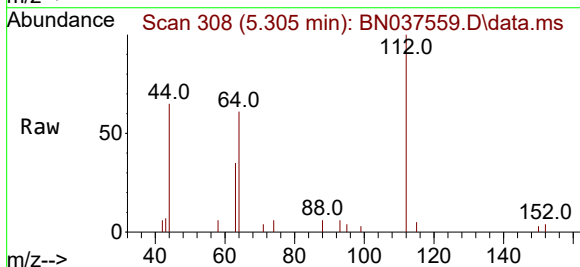
Tgt Ion: 112 Resp: 2075

Ion Ratio Lower Upper

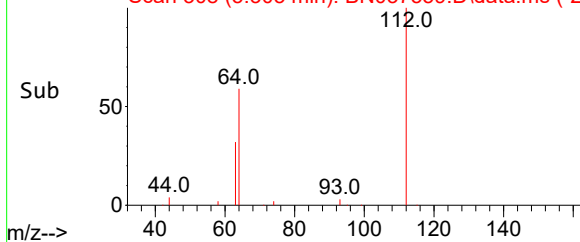
112 100

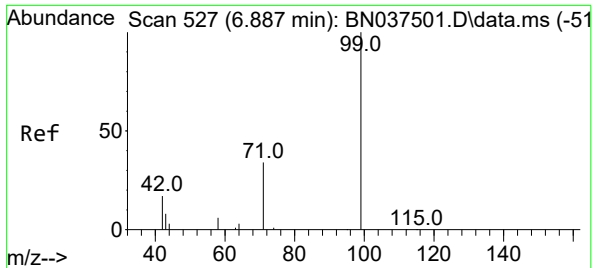
64 58.1 45.1 67.7

63 31.4 23.8 35.8



Abundance Scan 308 (5.305 min): BN037559.D\data.ms (-28)

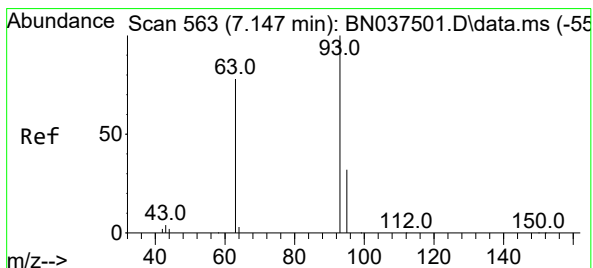
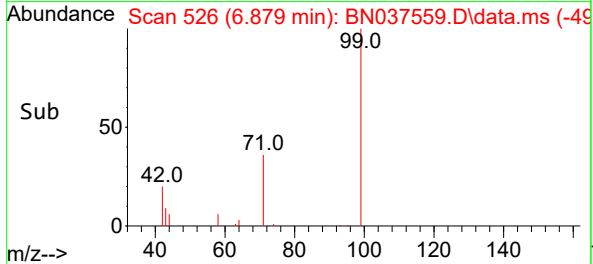
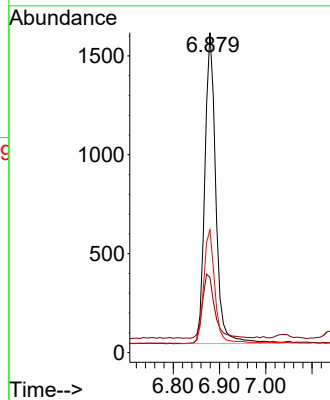
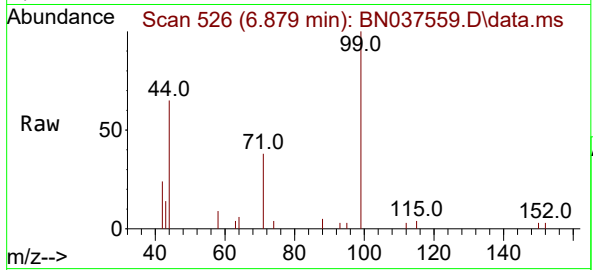




#5
Phenol-d6
Concen: 0.354 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

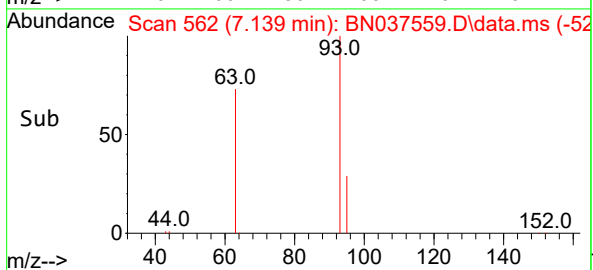
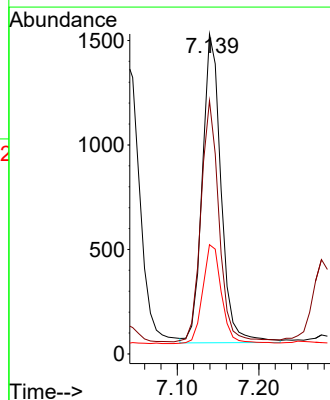
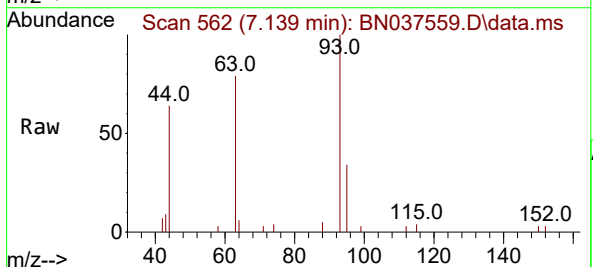
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

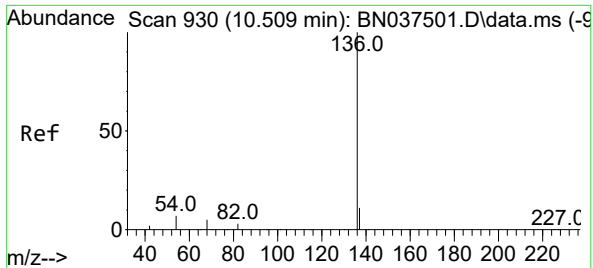
Tgt Ion:	99	Resp:	2587
Ion	Ratio	Lower	Upper
99	100		
42	23.1	17.1	25.7
71	37.2	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.007 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:	93	Resp:	2365
Ion	Ratio	Lower	Upper
93	100		
63	75.3	58.2	87.4
95	32.1	25.3	37.9

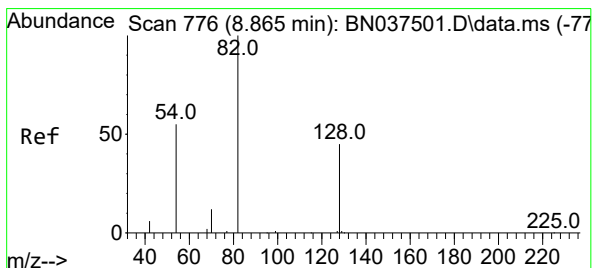
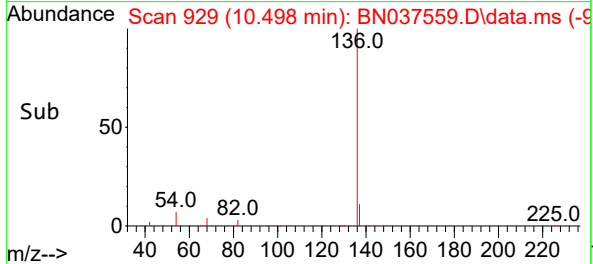
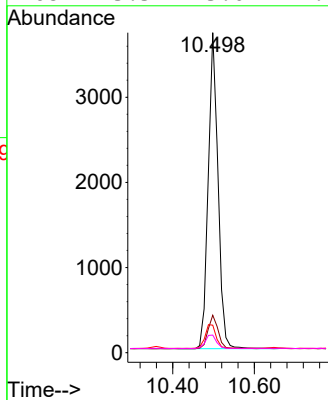
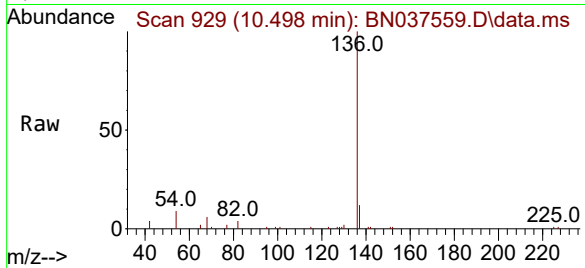




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

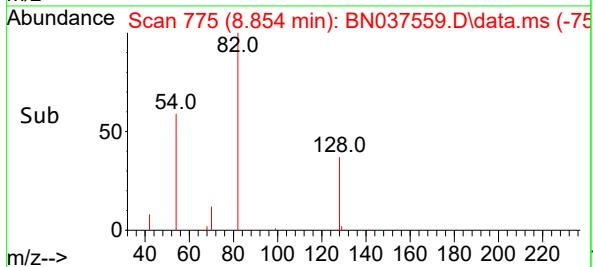
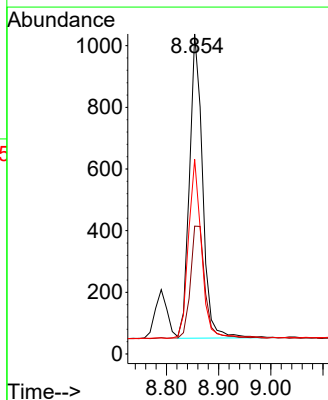
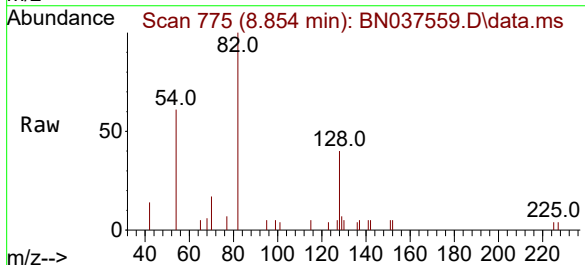
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

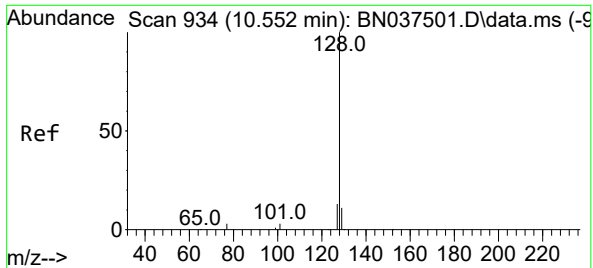
Tgt Ion:136 Resp: 6191
Ion Ratio Lower Upper
136 100
137 11.7 9.8 14.8
54 8.6 6.6 9.8
68 5.5 5.0 7.6



#8
Nitrobenzene-d5
Concen: 0.373 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.011 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion: 82 Resp: 1728
Ion Ratio Lower Upper
82 100
128 40.0 37.5 56.3
54 60.8 45.3 67.9

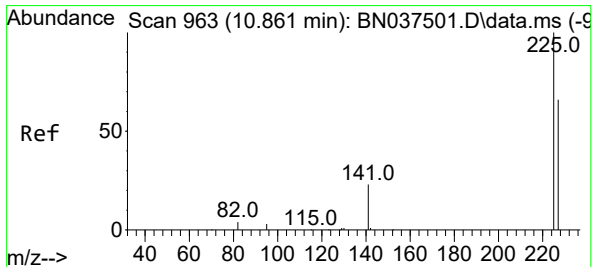
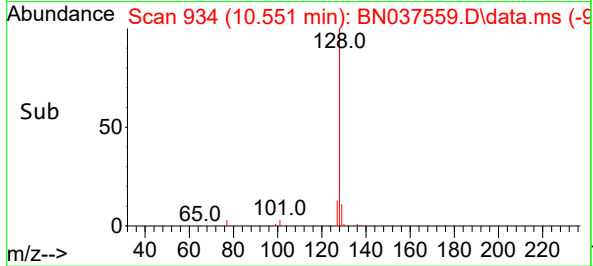
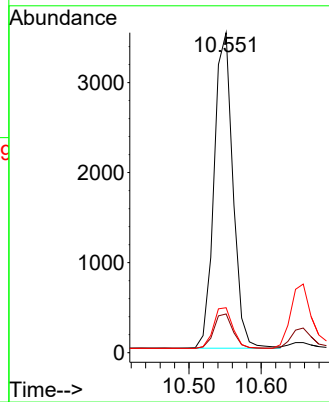
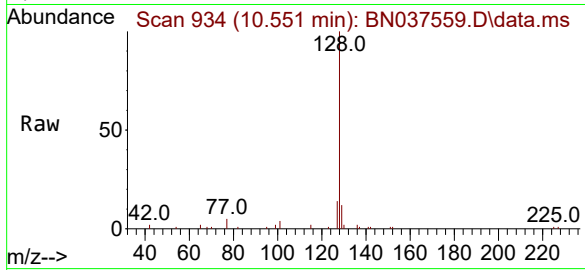




#9
Naphthalene
Concen: 0.384 ng
RT: 10.551 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

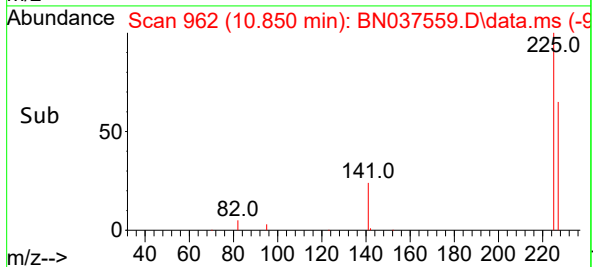
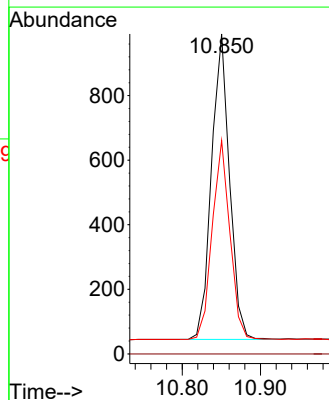
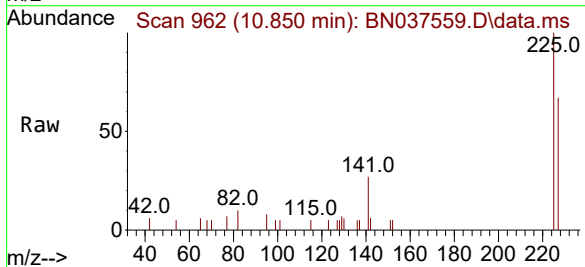
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

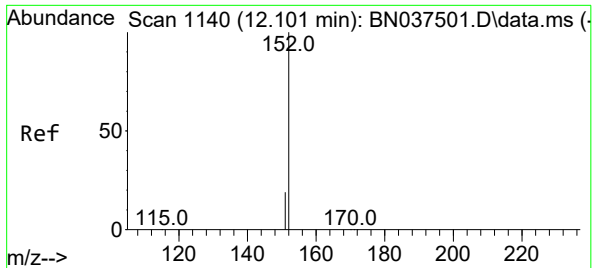
Tgt Ion:128 Resp: 6332
Ion Ratio Lower Upper
128 100
129 12.1 9.7 14.5
127 14.0 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:225 Resp: 1516
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.0 76.4

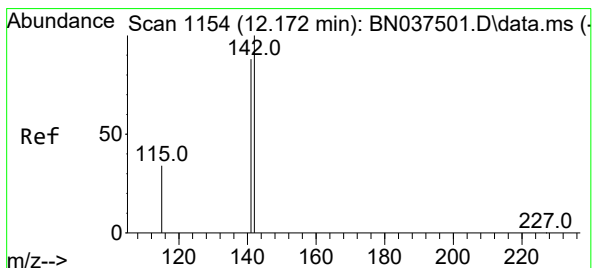
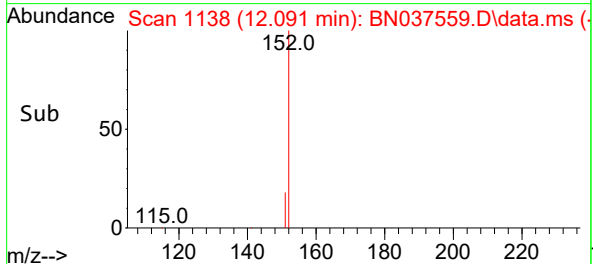
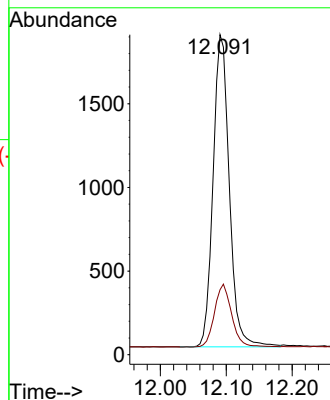
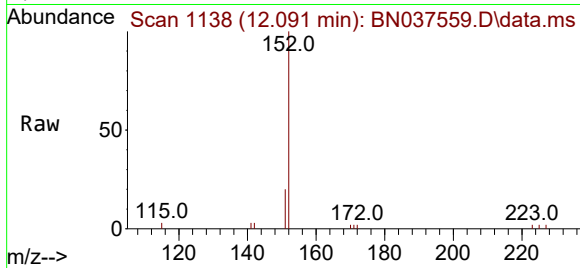




#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.010 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

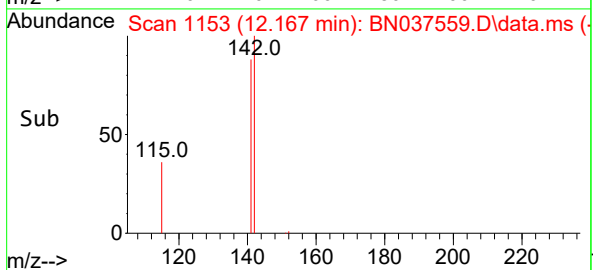
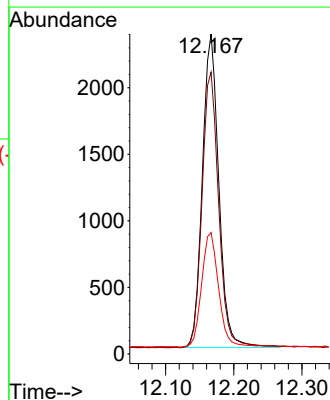
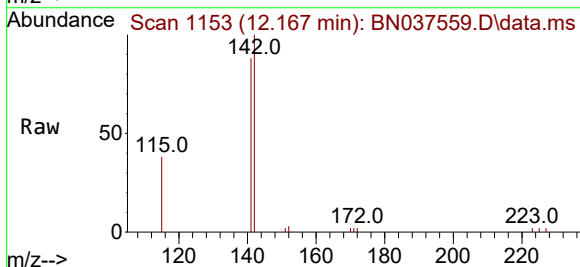
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

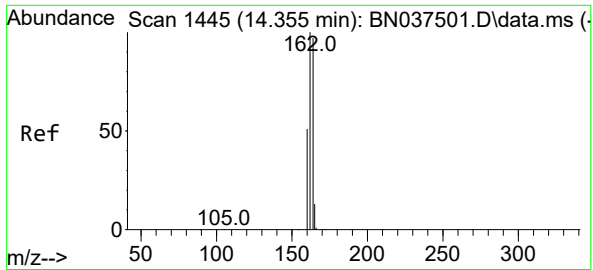
Tgt Ion:152 Resp: 3187
Ion Ratio Lower Upper
152 100
151 21.5 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.365 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:142 Resp: 3959
Ion Ratio Lower Upper
142 100
141 88.1 71.0 106.4
115 38.0 29.0 43.4

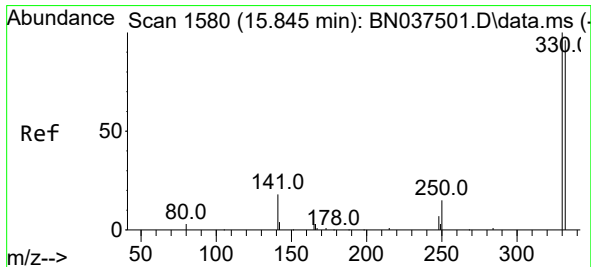
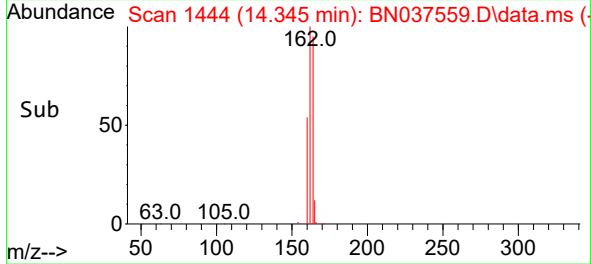
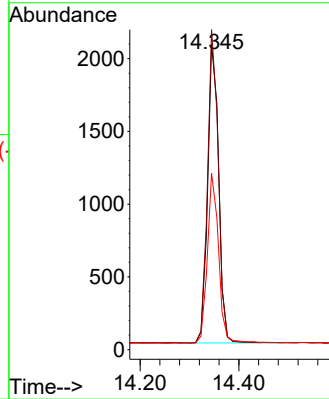
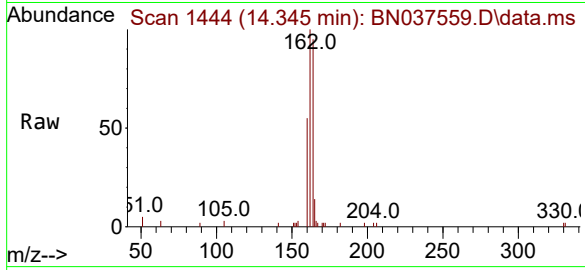




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

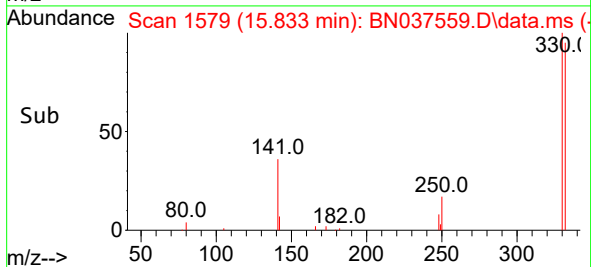
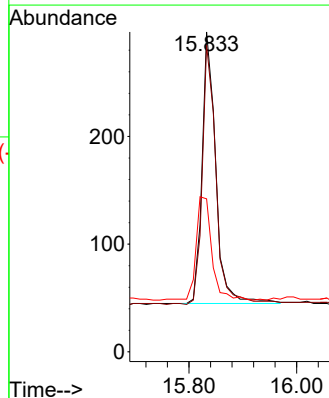
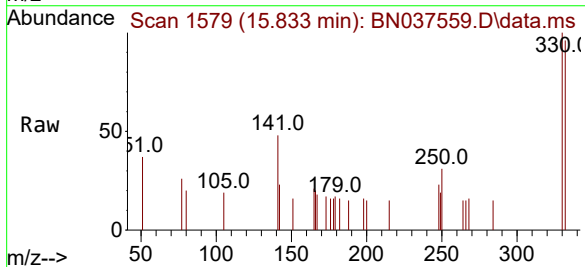
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

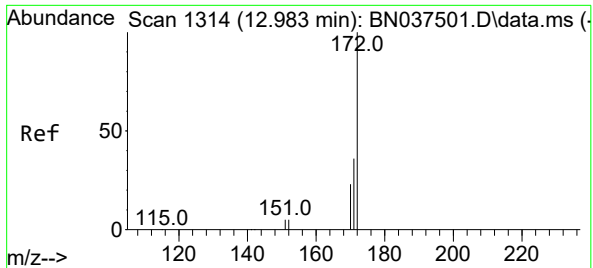
Tgt Ion:164 Resp: 3180
Ion Ratio Lower Upper
164 100
162 104.8 82.0 123.0
160 57.8 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.285 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:330 Resp: 445
Ion Ratio Lower Upper
330 100
332 97.3 76.1 114.1
141 43.8 33.4 50.0

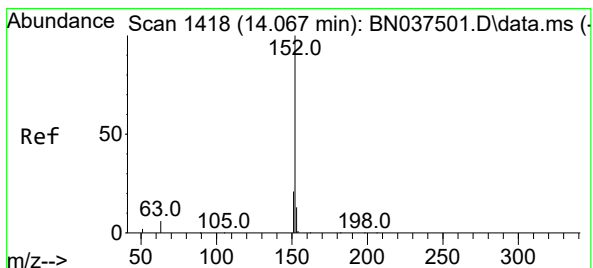
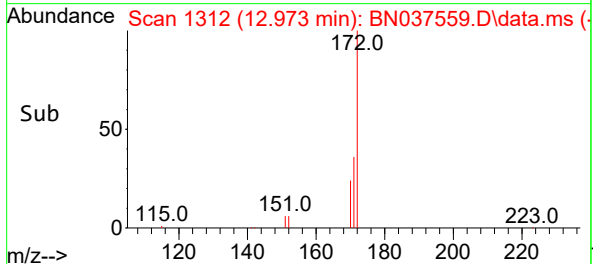
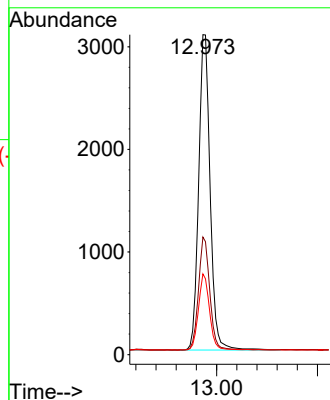
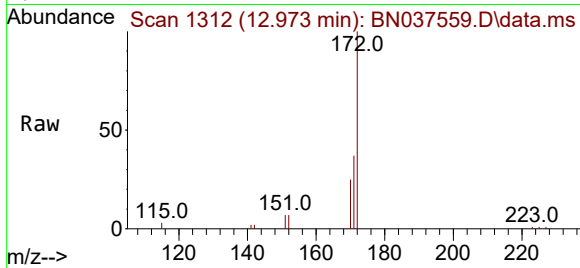




#15
2-Fluorobiphenyl
Concen: 0.419 ng
RT: 12.973 min Scan# 1314
Delta R.T. -0.010 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

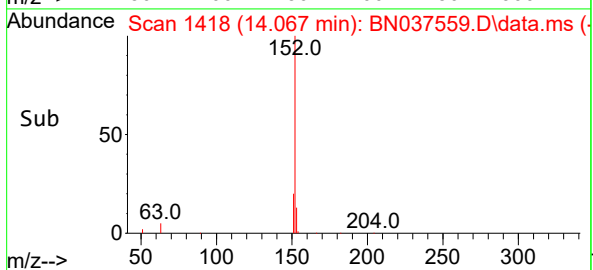
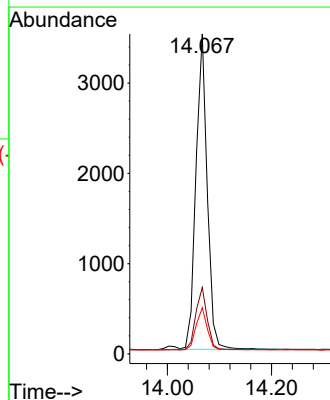
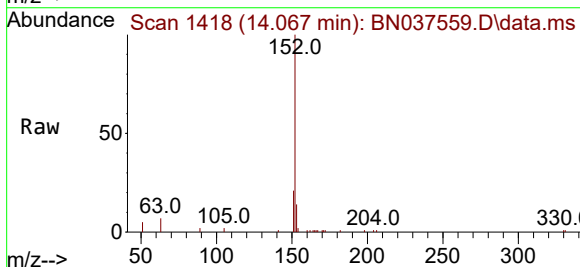
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

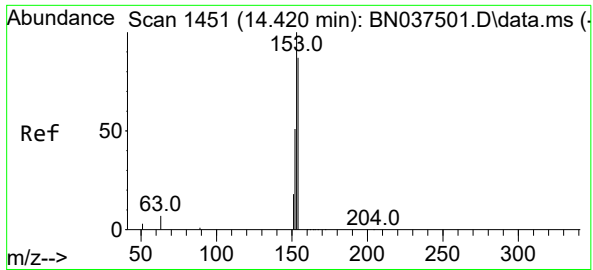
Tgt Ion:	172	Resp:	6937
Ion Ratio	Lower	Upper	
172	100		
171	36.7	29.4	44.2
170	25.2	19.4	29.0



#16
Acenaphthylene
Concen: 0.369 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:	152	Resp:	5250
Ion Ratio	Lower	Upper	
152	100		
151	20.1	15.9	23.9
153	13.5	10.7	16.1

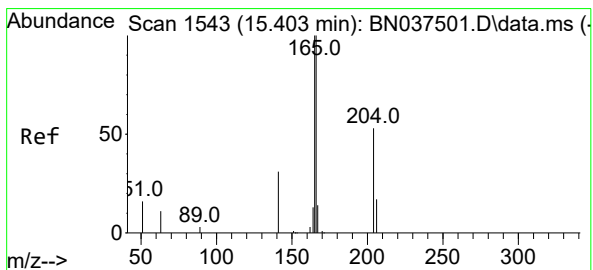
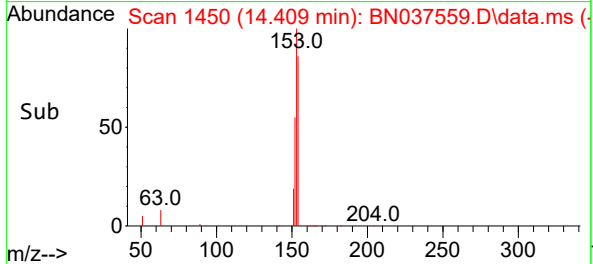
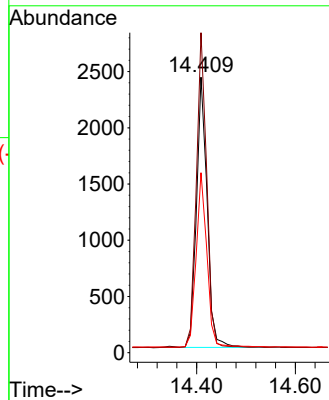
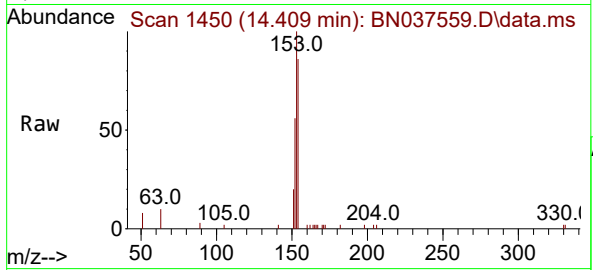




#17
Acenaphthene
Concen: 0.372 ng
RT: 14.409 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

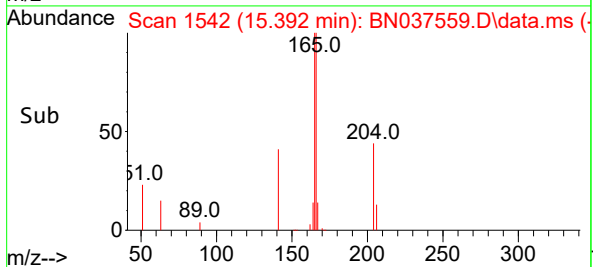
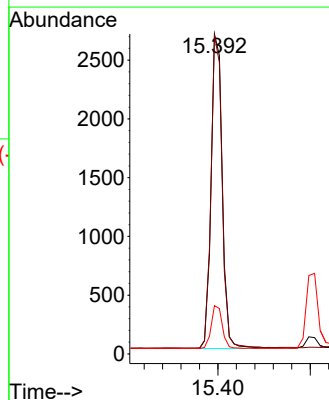
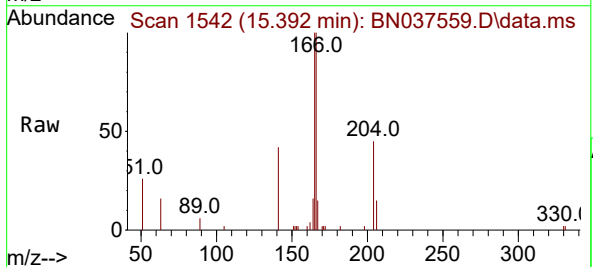
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

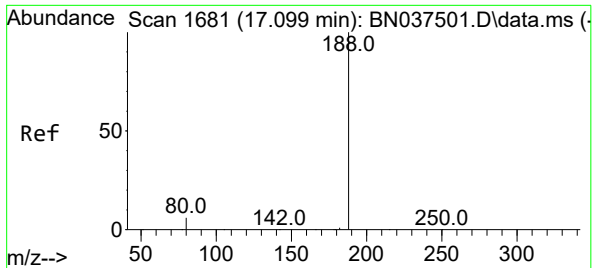
Tgt Ion:154 Resp: 3599
Ion Ratio Lower Upper
154 100
153 113.5 89.2 133.8
152 65.2 48.0 72.0



#18
Fluorene
Concen: 0.365 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.011 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:166 Resp: 4557
Ion Ratio Lower Upper
166 100
165 97.7 78.1 117.1
167 13.3 11.0 16.6

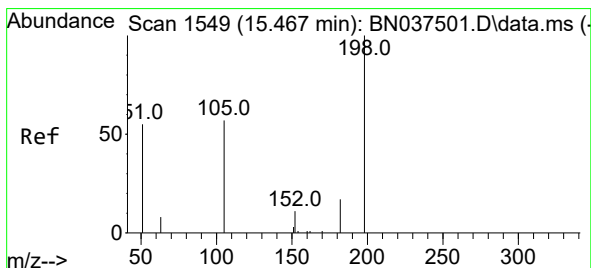
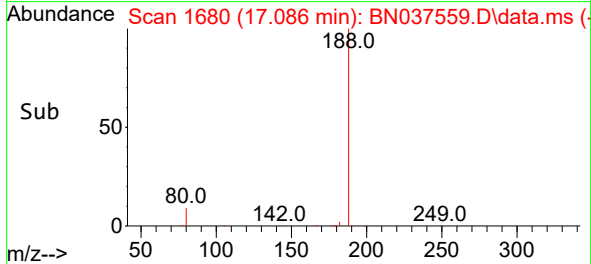
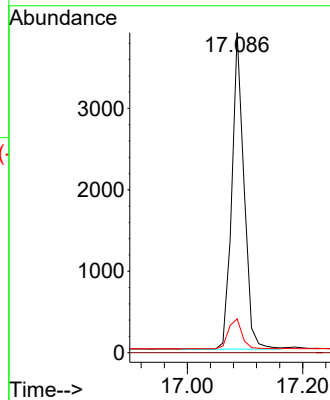
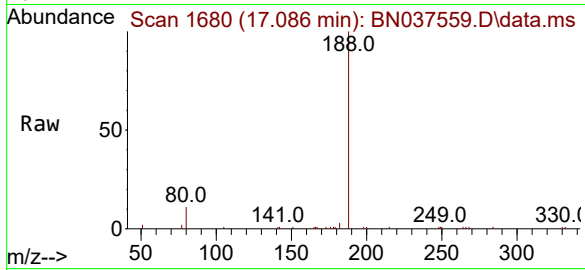




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

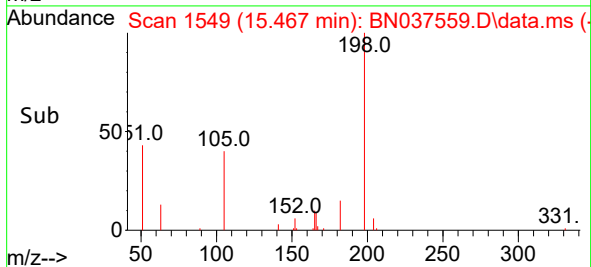
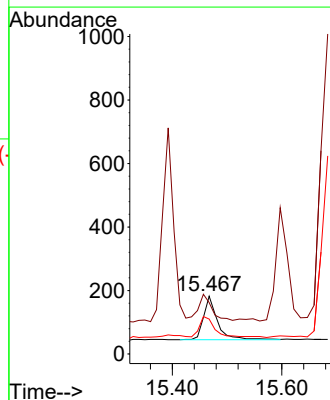
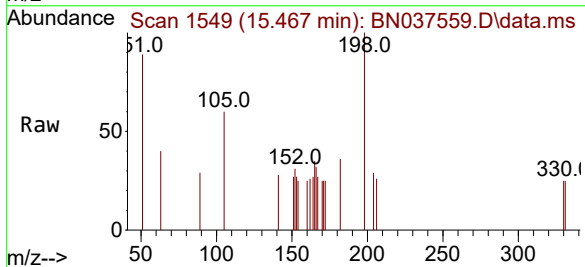
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

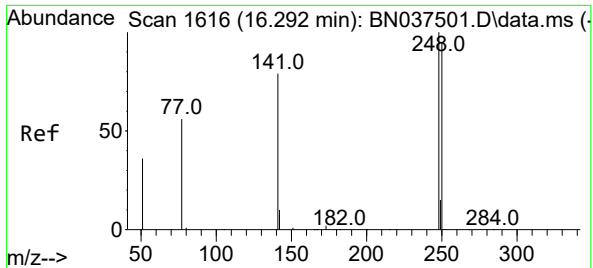
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	6.0	9.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.421 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion	Ratio	Lower	Upper
198	100		
51	89.0	88.5	132.7
105	60.4	61.2	91.8#

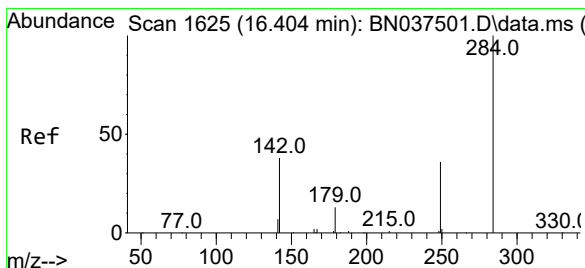
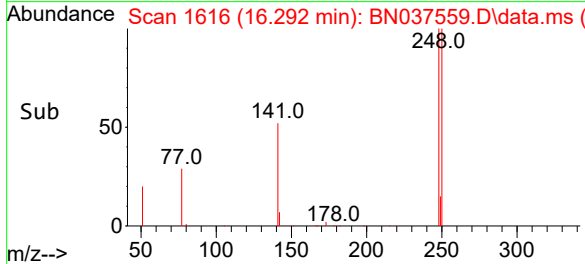
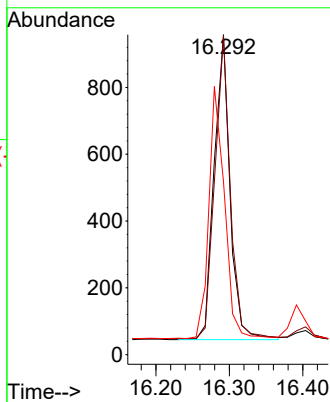
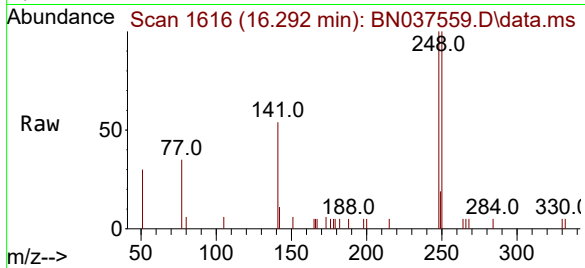




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

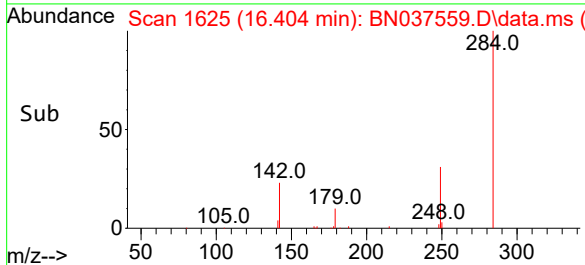
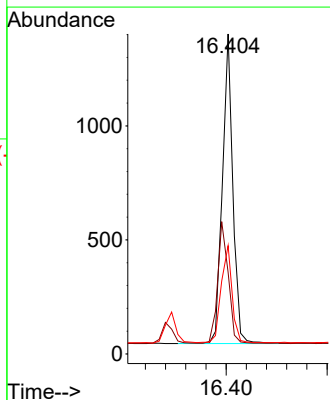
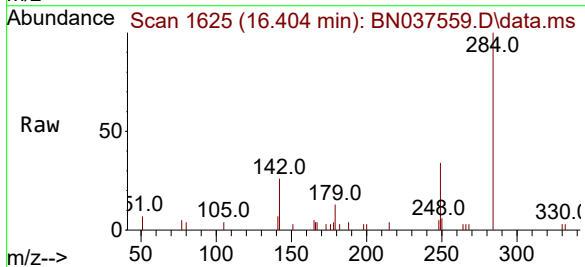
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

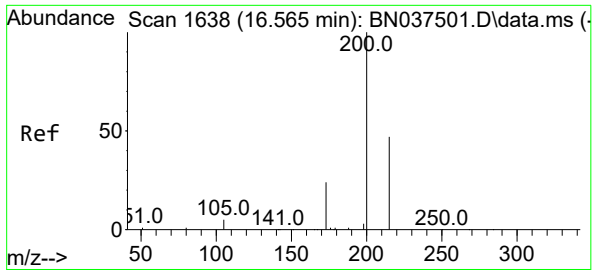
Tgt Ion:248 Resp: 1367
Ion Ratio Lower Upper
248 100
250 99.7 76.2 114.2
141 54.1 63.9 95.9#



#22
Hexachlorobenzene
Concen: 0.410 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:284 Resp: 1931
Ion Ratio Lower Upper
284 100
142 40.0 28.9 43.3
249 32.7 25.8 38.6

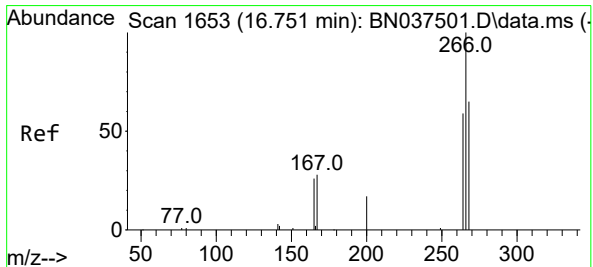
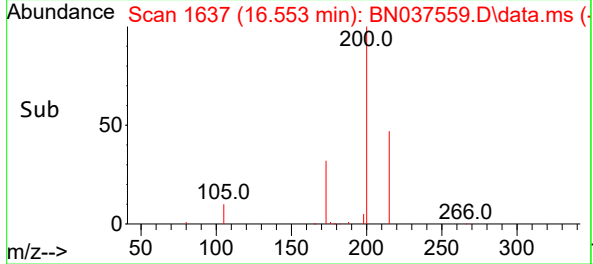
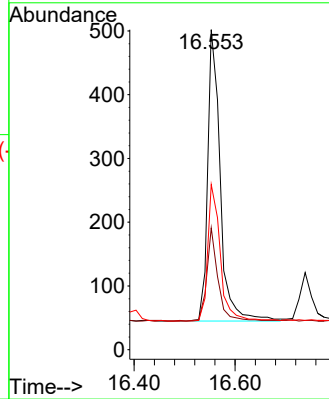
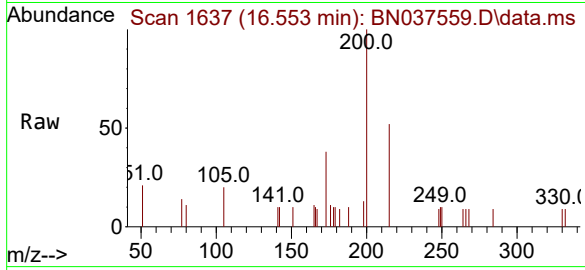




#23
Atrazine
Concen: 0.311 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

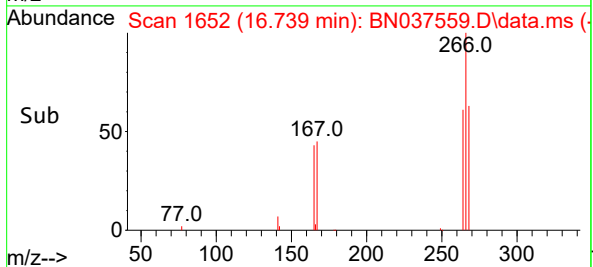
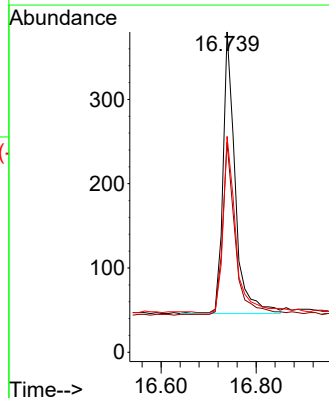
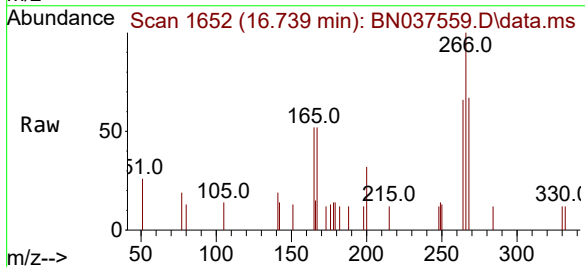
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

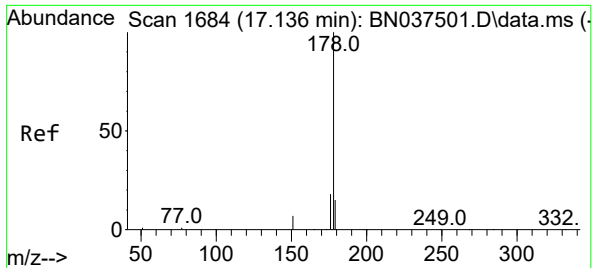
Tgt Ion:200 Resp: 790
Ion Ratio Lower Upper
200 100
173 38.0 23.2 34.8#
215 51.6 40.2 60.4



#24
Pentachlorophenol
Concen: 0.282 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:266 Resp: 595
Ion Ratio Lower Upper
266 100
264 62.9 49.3 73.9
268 65.4 51.6 77.4

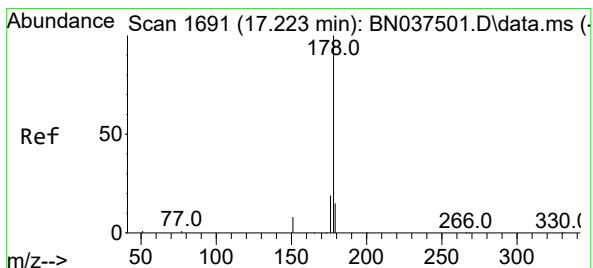
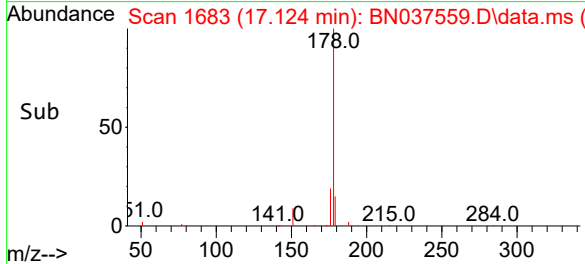
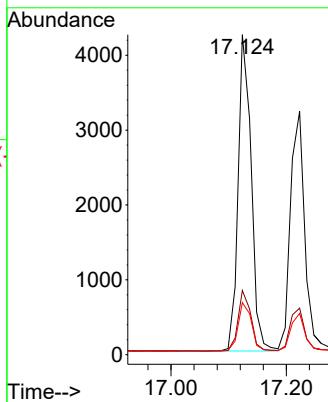
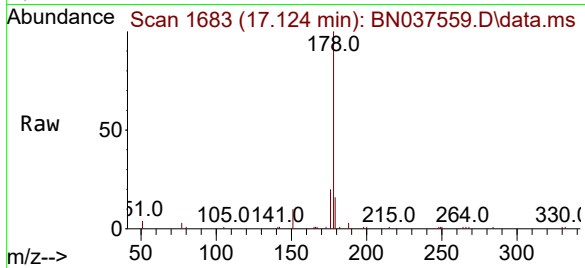




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

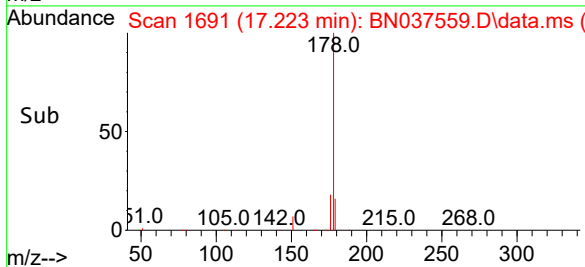
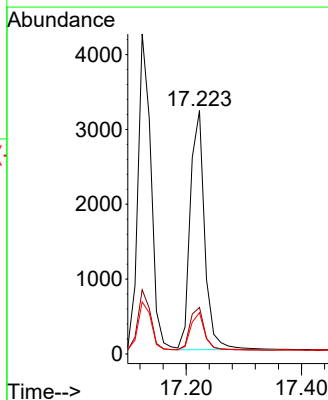
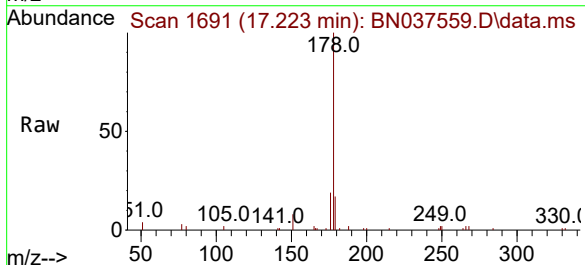
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

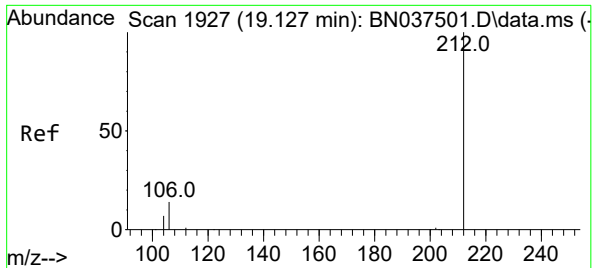
Tgt Ion:178 Resp: 6657
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.7 12.2 18.2



#26
Anthracene
Concen: 0.357 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:178 Resp: 5544
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.335 ng

RT: 19.122 min Scan# 1926

Delta R.T. -0.005 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

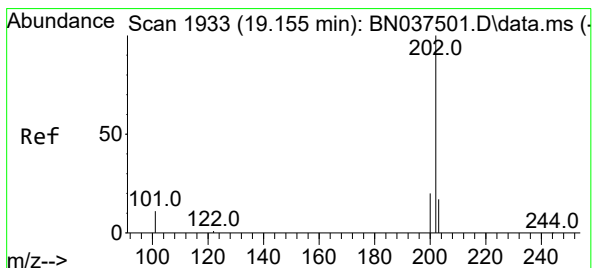
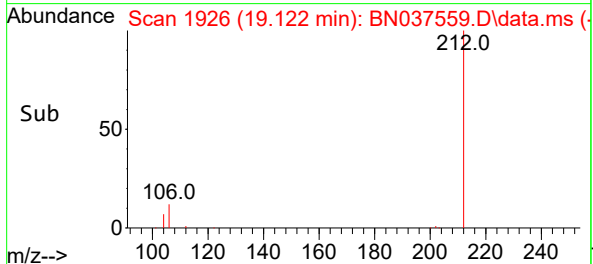
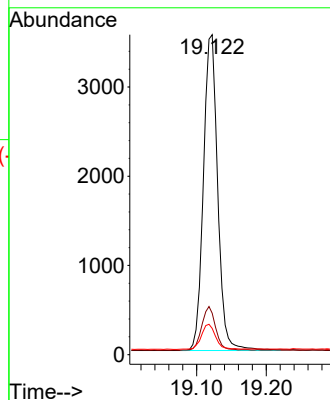
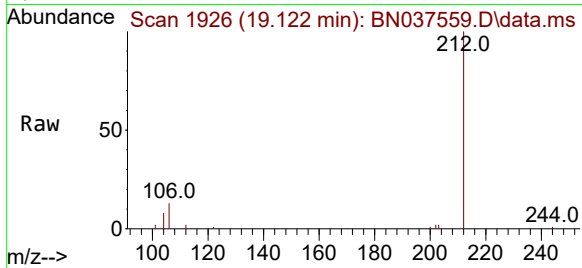
Tgt Ion:212 Resp: 5051

Ion Ratio Lower Upper

212 100

106 13.5 12.2 18.4

104 7.9 6.7 10.1



#28

Fluoranthene

Concen: 0.345 ng

RT: 19.150 min Scan# 1932

Delta R.T. -0.005 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

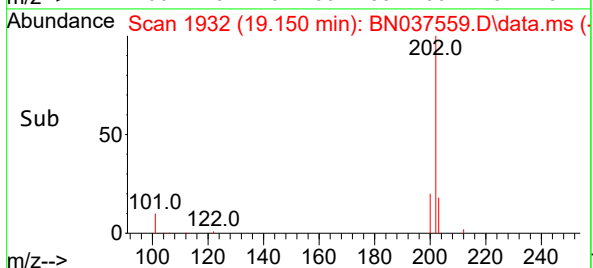
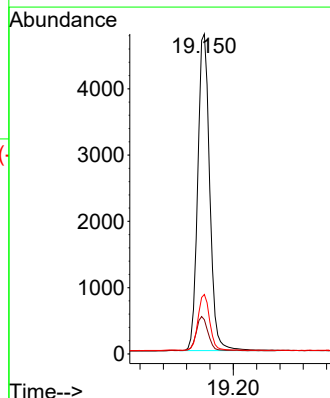
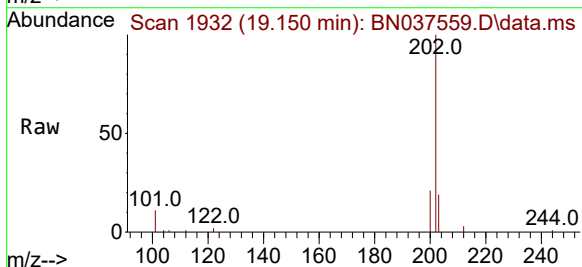
Tgt Ion:202 Resp: 6780

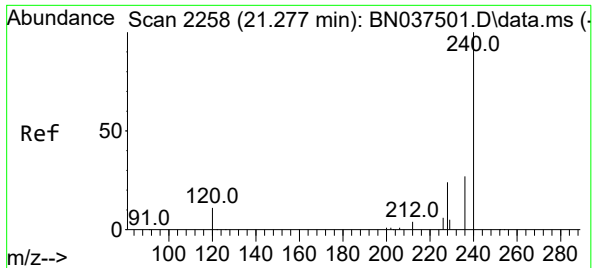
Ion Ratio Lower Upper

202 100

101 10.9 9.8 14.6

203 17.3 13.6 20.4

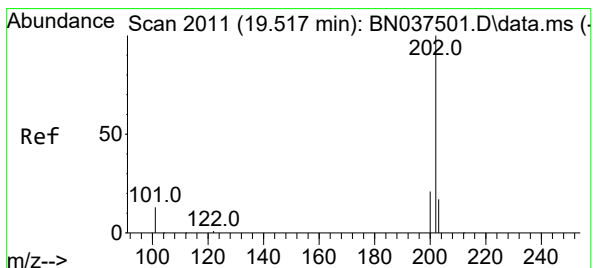
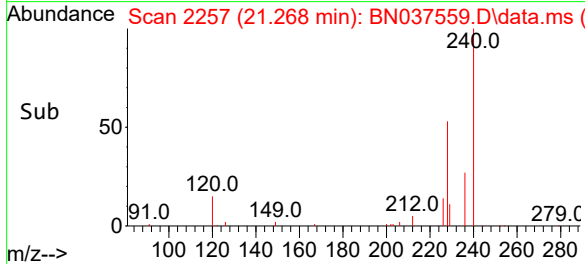
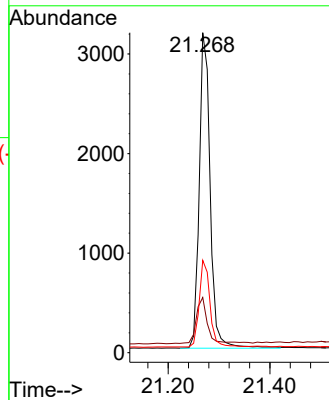
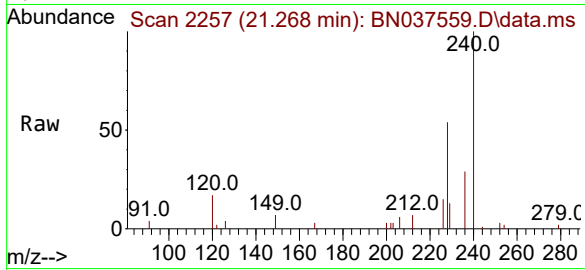




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

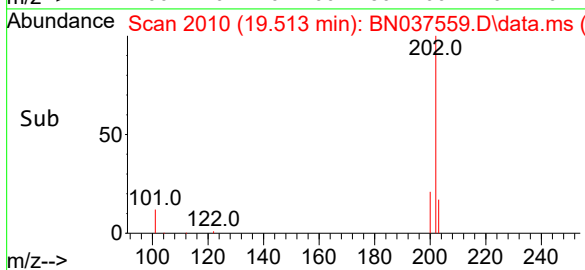
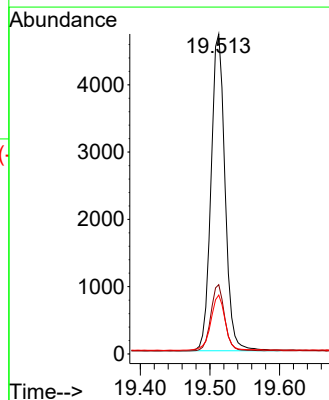
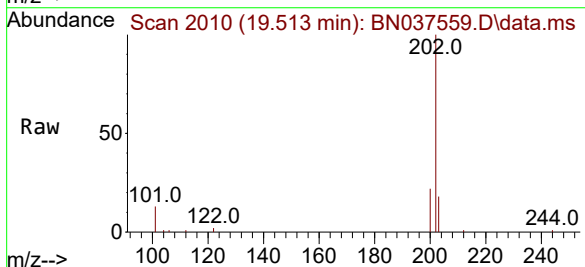
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

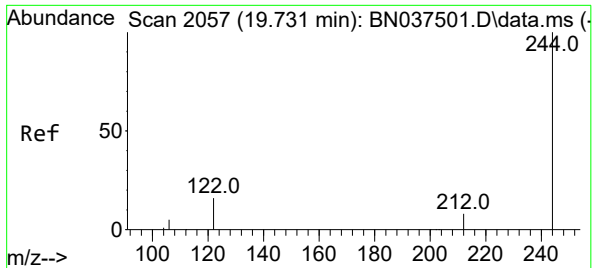
Tgt Ion:240 Resp: 4703
Ion Ratio Lower Upper
240 100
120 17.2 10.7 16.1#
236 28.9 22.6 33.8



#30
Pyrene
Concen: 0.347 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.005 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:202 Resp: 6578
Ion Ratio Lower Upper
202 100
200 20.6 16.5 24.7
203 17.7 14.3 21.5

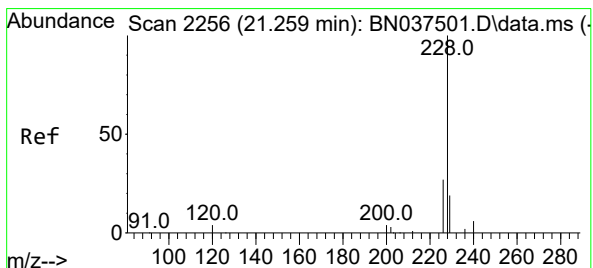
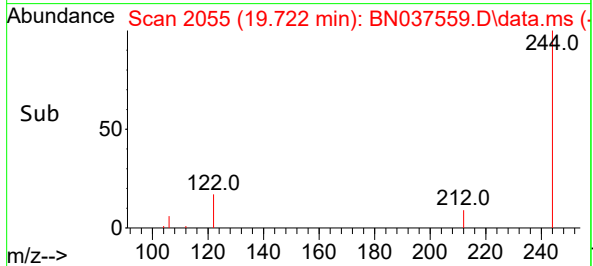
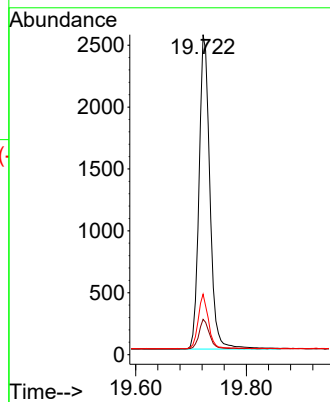
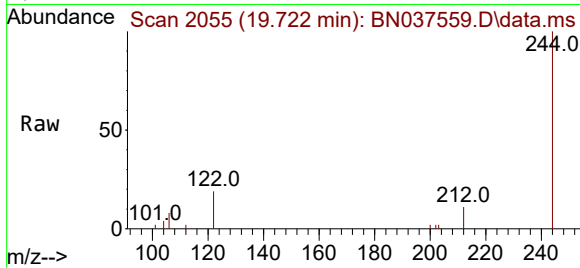




#31
Terphenyl-d14
Concen: 0.343 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.009 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

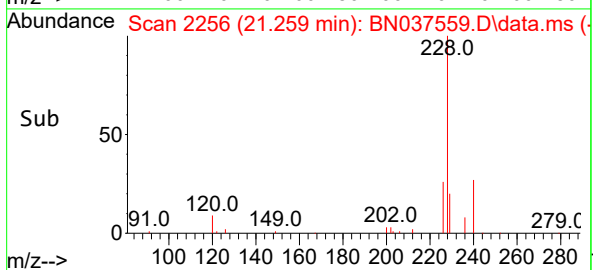
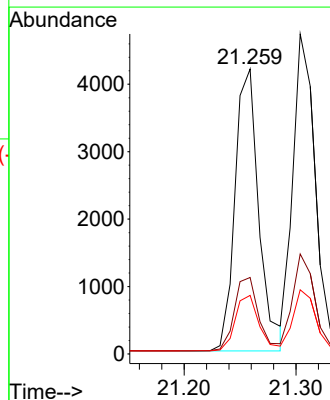
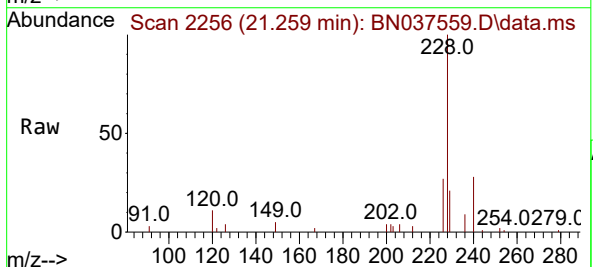
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

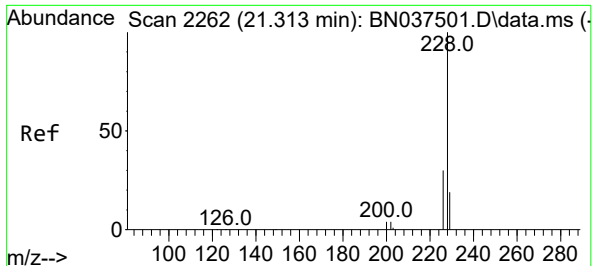
Tgt Ion:244 Resp: 3470
Ion Ratio Lower Upper
244 100
212 11.0 7.4 11.2
122 18.9 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:228 Resp: 6199
Ion Ratio Lower Upper
228 100
226 26.8 21.9 32.9
229 20.6 15.8 23.8





#33

Chrysene

Concen: 0.392 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

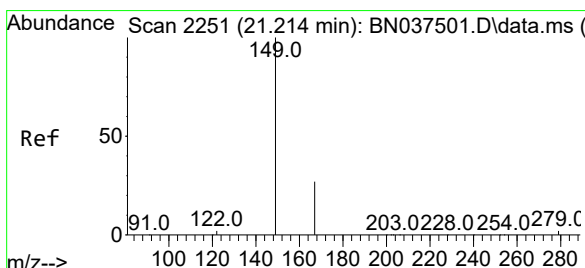
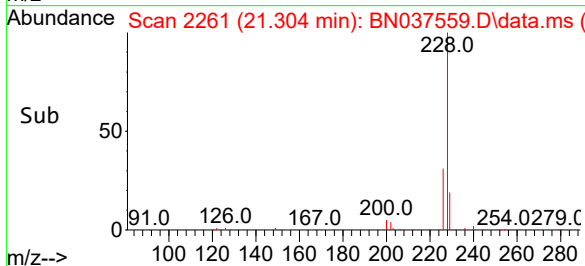
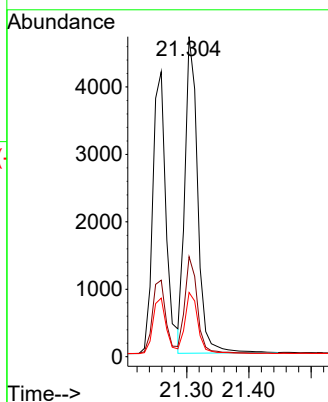
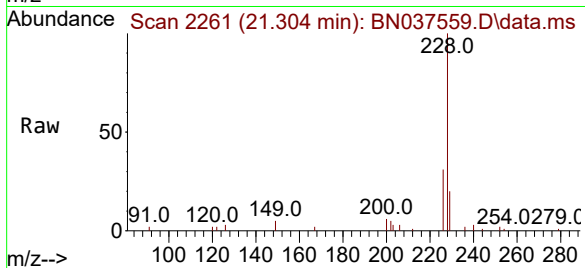
Tgt Ion:228 Resp: 6716

Ion Ratio Lower Upper

228 100

226 31.3 24.2 36.4

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.335 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.009 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

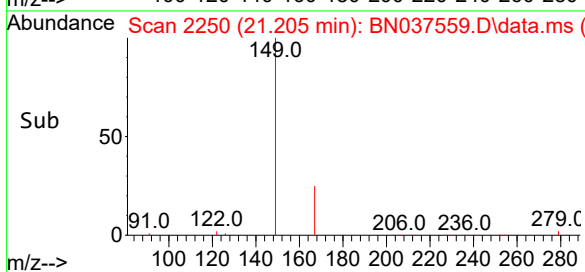
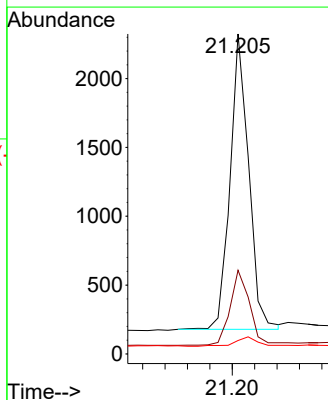
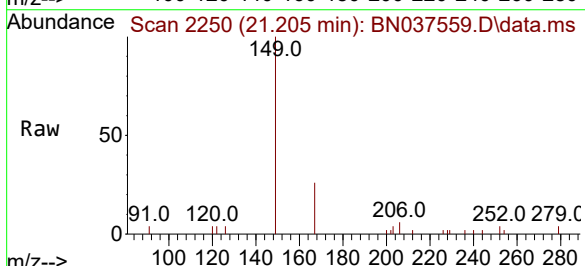
Tgt Ion:149 Resp: 2480

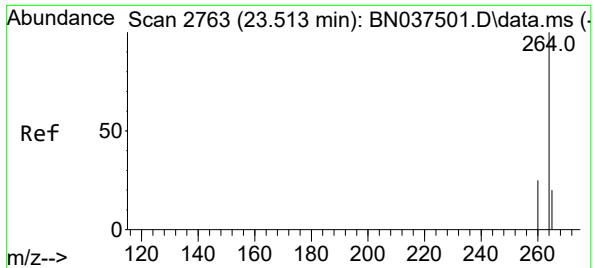
Ion Ratio Lower Upper

149 100

167 27.3 21.8 32.8

279 3.8 3.0 4.4

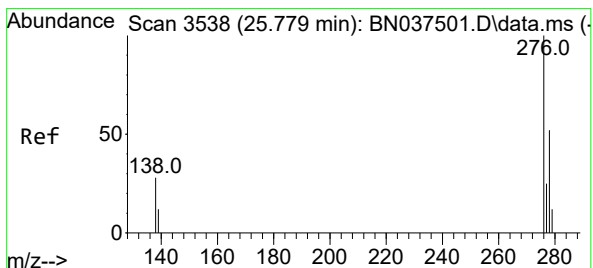
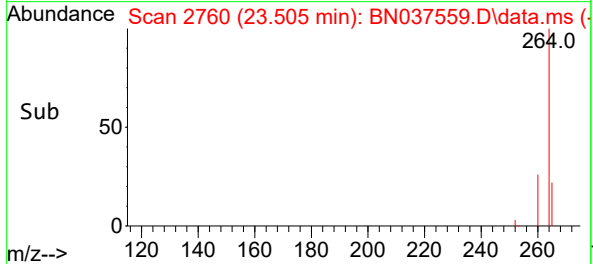
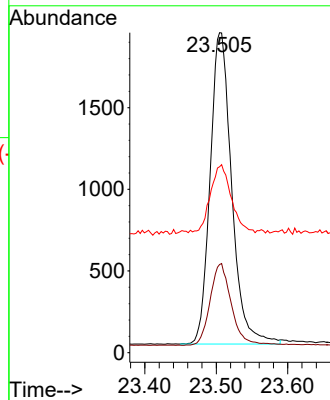
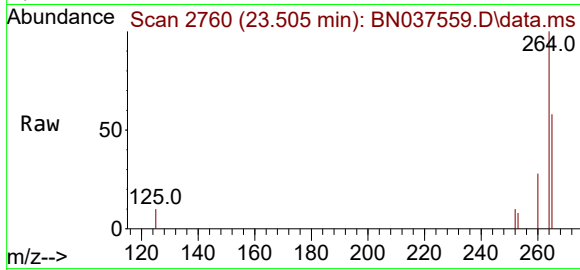




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.505 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

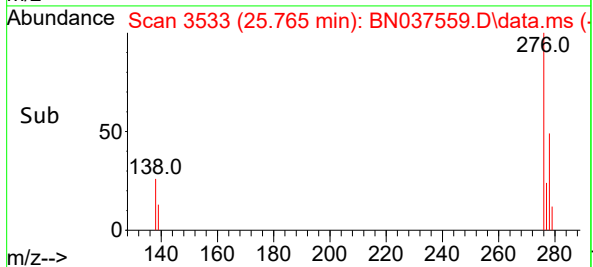
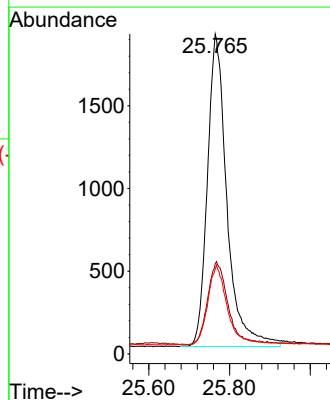
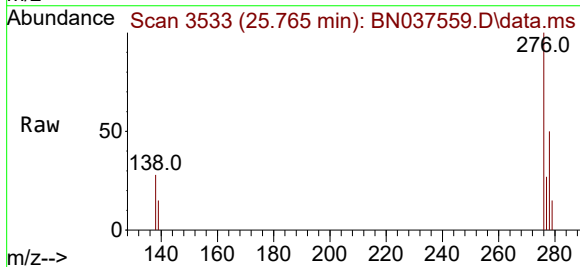
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

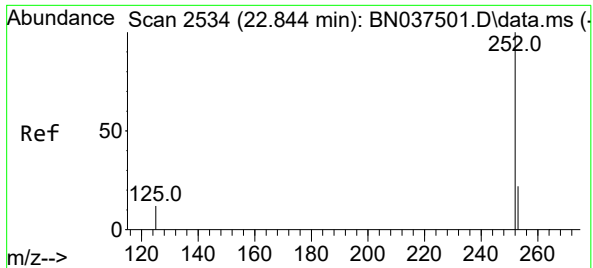
Tgt Ion:	264	Resp:	3993
Ion Ratio	Lower	Upper	
264	100		
260	27.6	21.2	31.8
265	58.1	40.4	60.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.765 min Scan# 3533
Delta R.T. -0.015 min
Lab File: BN037559.D
Acq: 05 Aug 2025 09:35

Tgt Ion:	276	Resp:	6340
Ion Ratio	Lower	Upper	
276	100		
138	27.3	24.0	36.0
277	25.7	20.5	30.7





#37

Benzo(b)fluoranthene

Concen: 0.372 ng

RT: 22.835 min Scan# 2534

Delta R.T. -0.009 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

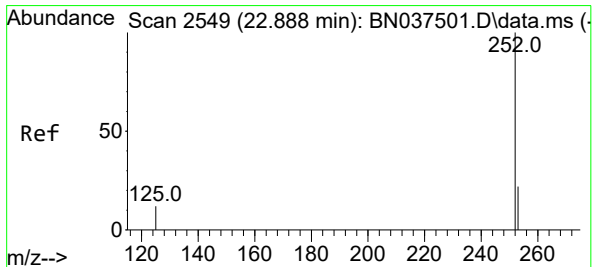
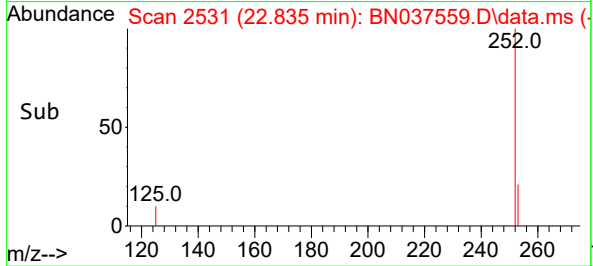
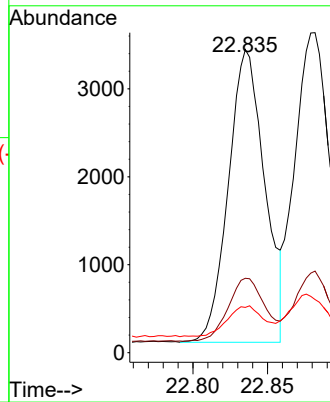
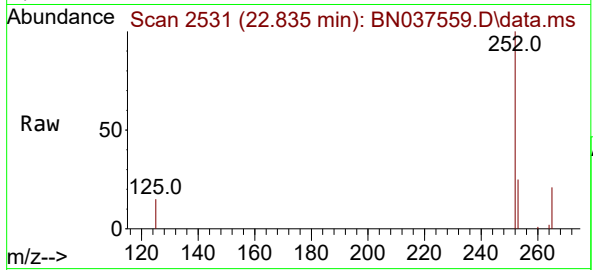
Tgt Ion:252 Resp: 5635

Ion Ratio Lower Upper

252 100

253 24.5 19.5 29.3

125 15.0 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.401 ng

RT: 22.882 min Scan# 2547

Delta R.T. -0.006 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

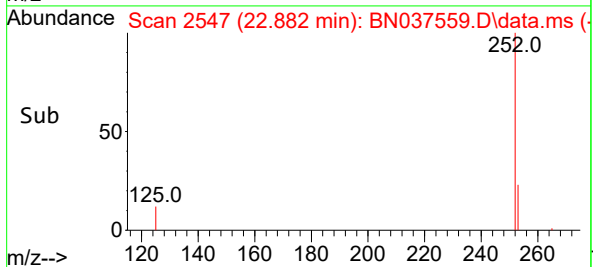
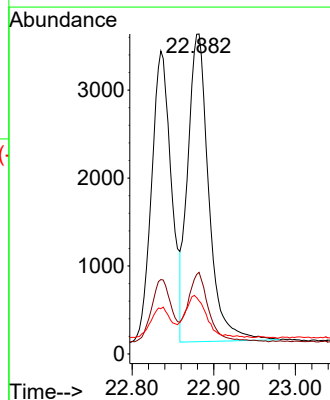
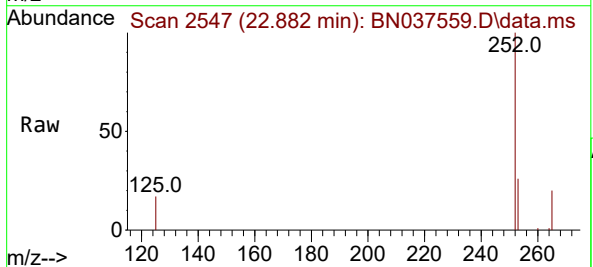
Tgt Ion:252 Resp: 6267

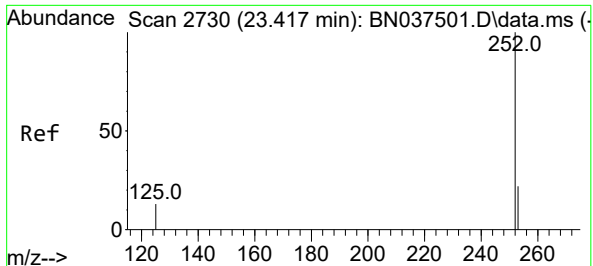
Ion Ratio Lower Upper

252 100

253 25.5 19.5 29.3

125 16.6 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

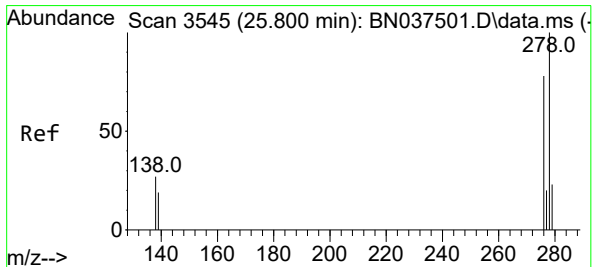
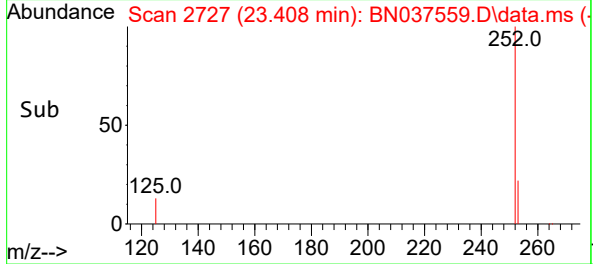
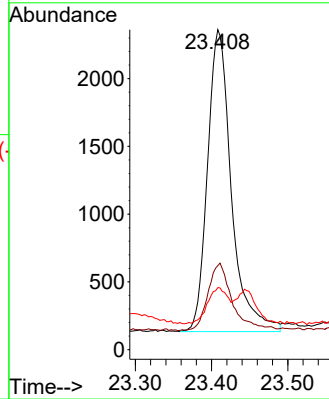
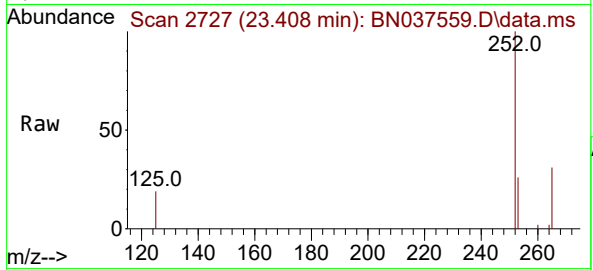
Tgt Ion:252 Resp: 4850

Ion Ratio Lower Upper

252 100

253 26.3 19.9 29.9

125 19.4 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.355 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.018 min

Lab File: BN037559.D

Acq: 05 Aug 2025 09:35

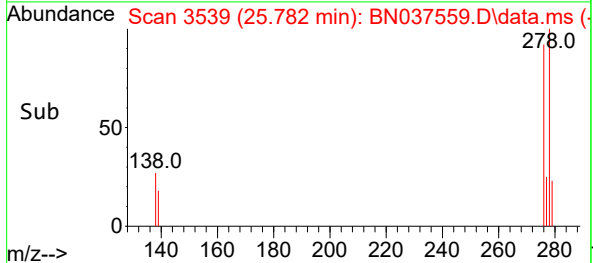
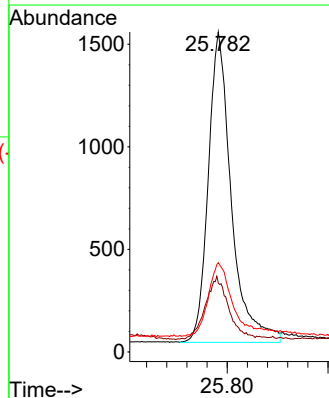
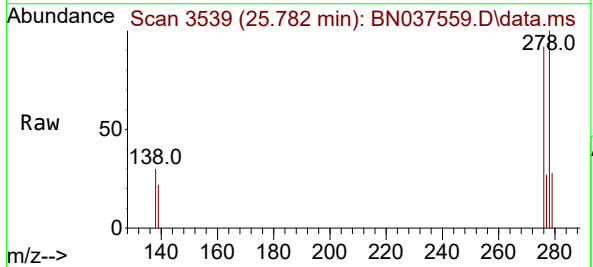
Tgt Ion:278 Resp: 4787

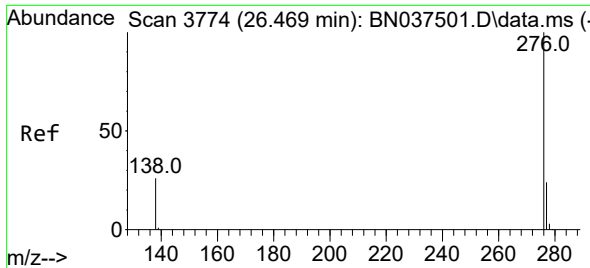
Ion Ratio Lower Upper

278 100

139 21.5 17.5 26.3

279 27.9 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.364 ng

RT: 26.452 min Scan# 31

Delta R.T. -0.018 min

Lab File: BN037559.D

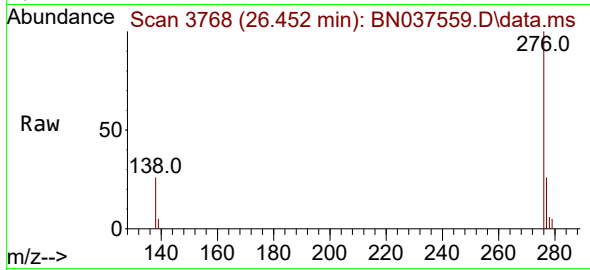
Acq: 05 Aug 2025 09:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



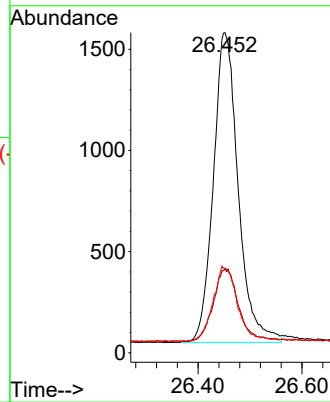
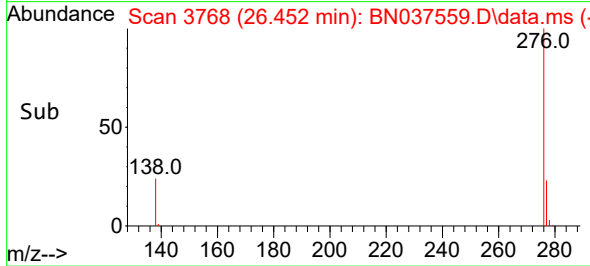
Tgt Ion:276 Resp: 5081

Ion Ratio Lower Upper

276 100

277 26.2 20.9 31.3

138 26.5 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
 Data File : BN037559.D
 Acq On : 05 Aug 2025 09:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 06 01:38:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 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	0.385	0.404	-4.9	105	0.00
3	n-Nitrosodimethylamine	0.484	0.518	-7.0	115	0.00
4 S	2-Fluorophenol	0.989	0.880	11.0	92	0.00
5 S	Phenol-d6	1.241	1.098	11.5	95	0.00
6	bis(2-Chloroethyl)ether	1.033	1.003	2.9	101	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	-0.01
8 S	Nitrobenzene-d5	0.299	0.279	6.7	105	-0.01
9	Naphthalene	1.067	1.023	4.1	104	0.00
10	Hexachlorobutadiene	0.236	0.245	-3.8	111	-0.01
11 SURR	2-Methylnaphthalene-d10	0.574	0.515	10.3	101	-0.01
12	2-Methylnaphthalene	0.701	0.639	8.8	100	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	96	-0.01
14 S	2,4,6-Tribromophenol	0.197	0.140	28.9#	77	-0.01
15 S	2-Fluorobiphenyl	2.080	2.181	-4.9	102	-0.01
16	Acenaphthylene	1.792	1.651	7.9	92	0.00
17	Acenaphthene	1.218	1.132	7.1	92	-0.01
18	Fluorene	1.569	1.433	8.7	92	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	88	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.045	21.1	96	0.00
21	4-Bromophenyl-phenylether	0.256	0.240	6.3	87	0.00
22	Hexachlorobenzene	0.331	0.340	-2.7	91	0.00
23	Atrazine	0.179	0.139	22.3	77	-0.01
24	Pentachlorophenol	0.149	0.105	29.5#	73	-0.01
25	Phenanthrene	1.198	1.171	2.3	89	-0.01
26	Anthracene	1.093	0.975	10.8	85	0.00
27 SURR	Fluoranthene-d10	1.060	0.889	16.1	81	0.00
28	Fluoranthene	1.382	1.193	13.7	81	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30	Pyrene	1.612	1.399	13.2	79	0.00
31 S	Terphenyl-d14	0.859	0.738	14.1	79	0.00
32	Benzo(a)anthracene	1.401	1.318	5.9	89	0.00
33	Chrysene	1.459	1.428	2.1	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.630	0.527	16.3	84	0.00
35 I	Perylene-d12	1.000	1.000	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	1.666	1.588	4.7	87	-0.01
37	Benzo(b)fluoranthene	1.518	1.411	7.0	81	0.00
38	Benzo(k)fluoranthene	1.567	1.569	-0.1	88	0.00
39 C	Benzo(a)pyrene	1.267	1.215	4.1	85	0.00
40	Dibenzo(a,h)anthracene	1.349	1.199	11.1	82	-0.02
41	Benzo(g,h,i)perylene	1.397	1.272	8.9	81	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
 Data File : BN037559.D
 Acq On : 05 Aug 2025 09:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 06 01:38:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 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	0.420	-5.0	105	0.00
3	n-Nitrosodimethylamine	0.400	0.428	-7.0	115	0.00
4 S	2-Fluorophenol	0.400	0.356	11.0	92	0.00
5 S	Phenol-d6	0.400	0.354	11.5	95	0.00
6	bis(2-Chloroethyl)ether	0.400	0.389	2.8	101	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	-0.01
8 S	Nitrobenzene-d5	0.400	0.373	6.8	105	-0.01
9	Naphthalene	0.400	0.384	4.0	104	0.00
10	Hexachlorobutadiene	0.400	0.415	-3.7	111	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.359	10.3	101	-0.01
12	2-Methylnaphthalene	0.400	0.365	8.8	100	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	96	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.285	28.8#	77	-0.01
15 S	2-Fluorobiphenyl	0.400	0.419	-4.7	102	-0.01
16	Acenaphthylene	0.400	0.369	7.8	92	0.00
17	Acenaphthene	0.400	0.372	7.0	92	-0.01
18	Fluorene	0.400	0.365	8.8	92	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	88	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.421	-5.2	96	0.00
21	4-Bromophenyl-phenylether	0.400	0.375	6.3	87	0.00
22	Hexachlorobenzene	0.400	0.410	-2.5	91	0.00
23	Atrazine	0.400	0.311	22.3	77	-0.01
24	Pentachlorophenol	0.400	0.282	29.5#	73	-0.01
25	Phenanthrene	0.400	0.391	2.3	89	-0.01
26	Anthracene	0.400	0.357	10.8	85	0.00
27 SURR	Fluoranthene-d10	0.400	0.335	16.3	81	0.00
28	Fluoranthene	0.400	0.345	13.8	81	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30	Pyrene	0.400	0.347	13.3	79	0.00
31 S	Terphenyl-d14	0.400	0.343	14.2	79	0.00
32	Benzo(a)anthracene	0.400	0.376	6.0	89	0.00
33	Chrysene	0.400	0.392	2.0	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.335	16.3	84	0.00
35 I	Perylene-d12	0.400	0.400	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.381	4.8	87	-0.01
37	Benzo(b)fluoranthene	0.400	0.372	7.0	81	0.00
38	Benzo(k)fluoranthene	0.400	0.401	-0.3	88	0.00
39 C	Benzo(a)pyrene	0.400	0.384	4.0	85	0.00
40	Dibenzo(a,h)anthracene	0.400	0.355	11.3	82	-0.02
41	Benzo(g,h,i)perylene	0.400	0.364	9.0	81	-0.02

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2746
 Instrument ID: BNA_N Calibration Date/Time: 08/05/2025 15:03
 Lab File ID: BN037568.D Init. Calib. Date(s): 07/15/2025 07/15/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:36 16:14
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.574	0.505		-12.0	50.0
Fluoranthene-d10	1.060	0.905		-14.6	50.0
2-Fluorophenol	0.989	0.840		-15.1	50.0
Phenol-d6	1.241	1.017		-18.0	50.0
Nitrobenzene-d5	0.299	0.288		-3.7	50.0
2-Fluorobiphenyl	2.080	2.112		1.5	50.0
2,4,6-Tribromophenol	0.197	0.145		-26.4	50.0
Terphenyl-d14	0.859	0.819		-4.7	50.0
1,4-Dioxane	0.385	0.388		0.8	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
 Data File : BN037568.D
 Acq On : 05 Aug 2025 15:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Aug 06 01:40:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

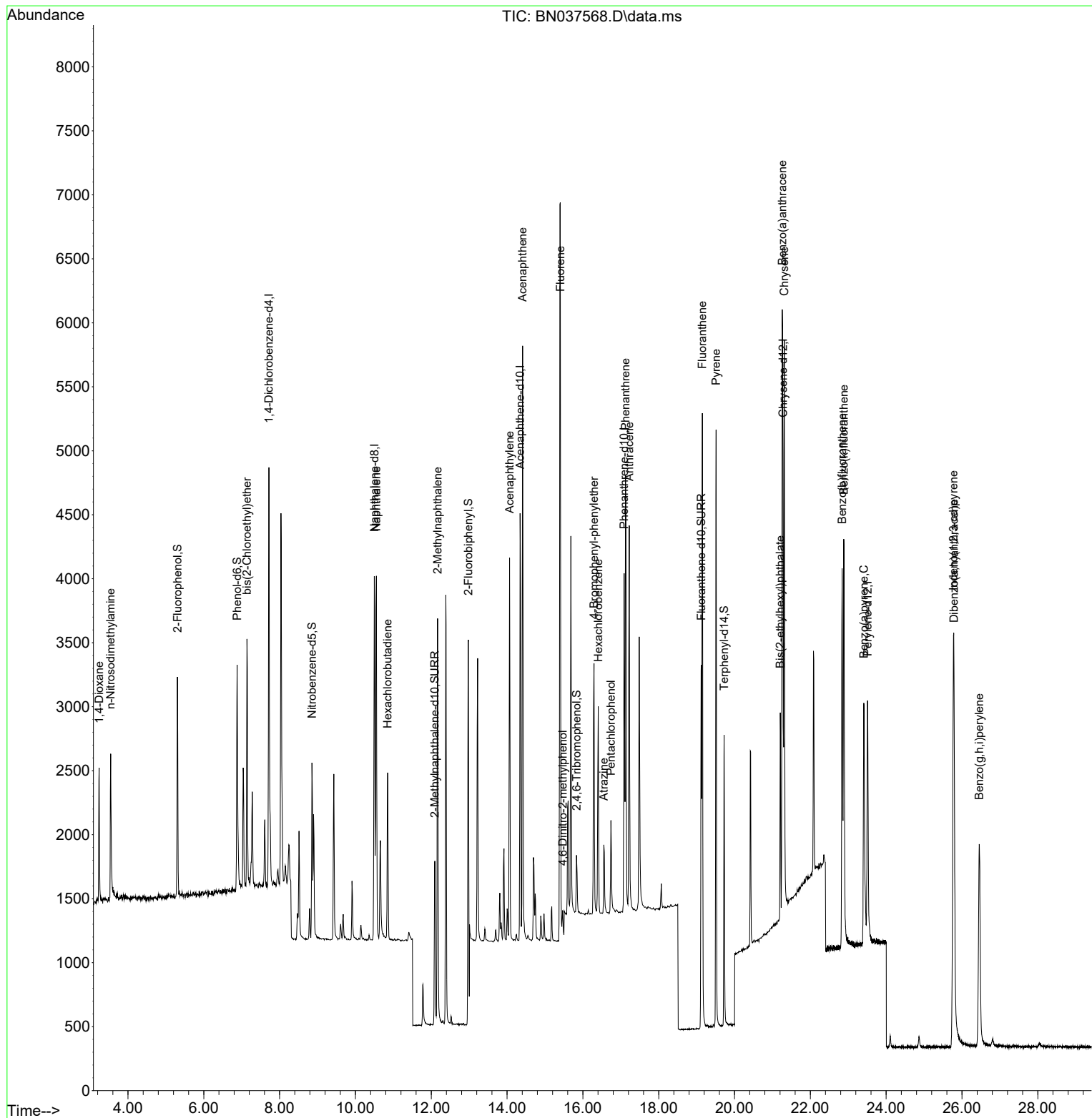
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1570	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3810	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	1885	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	3640	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	2815	0.400	ng	0.00
35) Perylene-d12	23.510	264	2610	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1319	0.340	ng	0.00
5) Phenol-d6	6.879	99	1596	0.328	ng	0.00
8) Nitrobenzene-d5	8.854	82	1099	0.386	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1923	0.352	ng	-0.01
14) 2,4,6-Tribromophenol	15.833	330	273	0.295	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3981	0.406	ng	0.00
27) Fluoranthene-d10	19.122	212	3296	0.342	ng	0.00
31) Terphenyl-d14	19.726	244	2306	0.381	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	609	0.404	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.543	42	869	0.458	ng	# 76
6) bis(2-Chloroethyl)ether	7.139	93	1481	0.365	ng	97
9) Naphthalene	10.552	128	3907	0.385	ng	98
10) Hexachlorobutadiene	10.850	225	1070	0.476	ng	# 99
12) 2-Methylnaphthalene	12.167	142	2362	0.354	ng	95
16) Acenaphthylene	14.067	152	3171	0.376	ng	100
17) Acenaphthene	14.409	154	2133	0.371	ng	93
18) Fluorene	15.403	166	2824	0.382	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	170	0.433	ng	96
21) 4-Bromophenyl-phenylether	16.292	248	843	0.361	ng	# 87
22) Hexachlorobenzene	16.404	284	1253	0.416	ng	94
23) Atrazine	16.553	200	540	0.332	ng	# 88
24) Pentachlorophenol	16.739	266	401	0.297	ng	98
25) Phenanthrene	17.124	178	4049	0.371	ng	99
26) Anthracene	17.223	178	3466	0.348	ng	100
28) Fluoranthene	19.150	202	4363	0.347	ng	98
30) Pyrene	19.513	202	4250	0.375	ng	100
32) Benzo(a)anthracene	21.259	228	3529	0.358	ng	97
33) Chrysene	21.313	228	4089	0.398	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	1659	0.374	ng	95
36) Indeno(1,2,3-cd)pyrene	25.776	276	4202	0.387	ng	97
37) Benzo(b)fluoranthene	22.838	252	3823	0.386	ng	97
38) Benzo(k)fluoranthene	22.882	252	4243	0.415	ng	96
39) Benzo(a)pyrene	23.411	252	3084	0.373	ng	93
40) Dibenzo(a,h)anthracene	25.788	278	3347	0.380	ng	96
41) Benzo(g,h,i)perylene	26.455	276	3483	0.382	ng	97

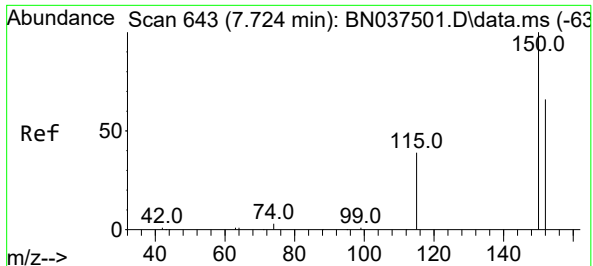
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037568.D
Acq On : 05 Aug 2025 15:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Aug 06 01:40:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

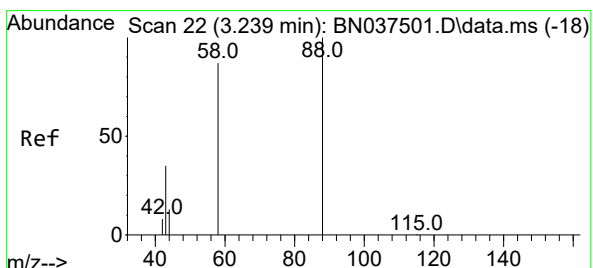
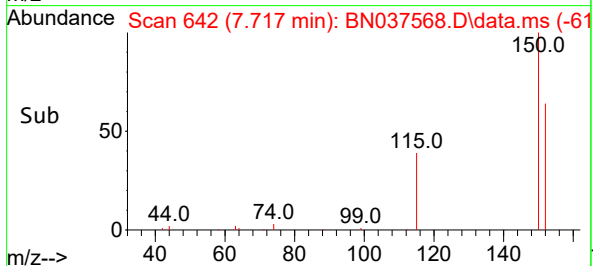
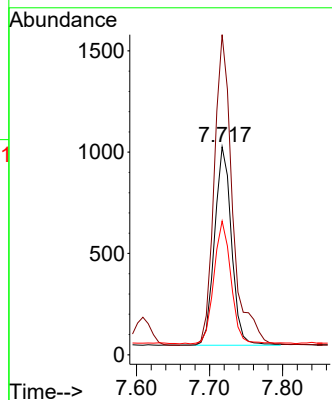
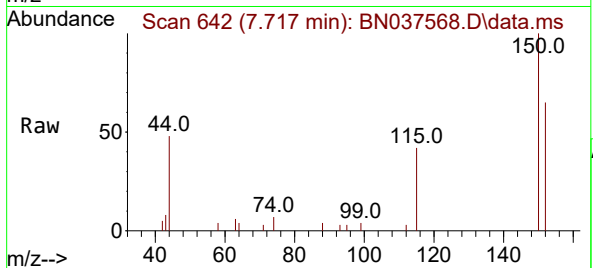




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

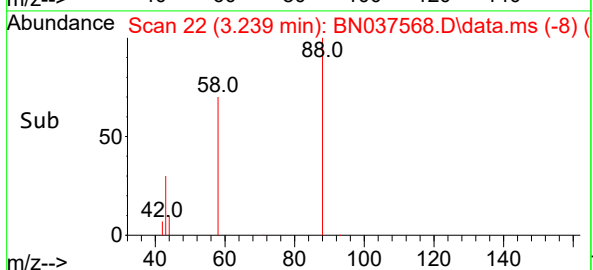
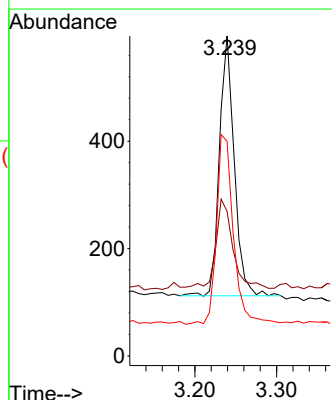
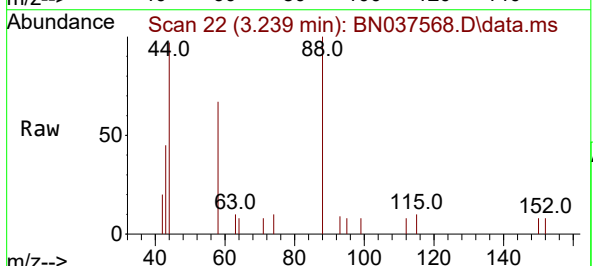
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

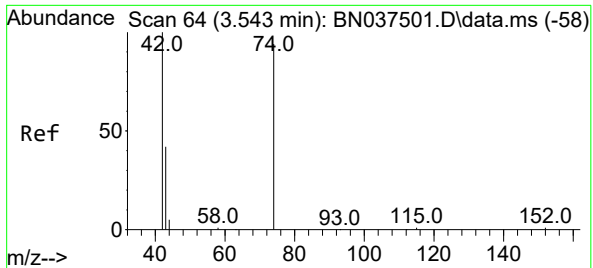
Tgt Ion:152 Resp: 1570
Ion Ratio Lower Upper
152 100
150 154.0 119.8 179.8
115 64.3 49.1 73.7



#2
1,4-Dioxane
Concen: 0.404 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion: 88 Resp: 609
Ion Ratio Lower Upper
88 100
43 39.6 27.5 41.3
58 83.1 62.7 94.1

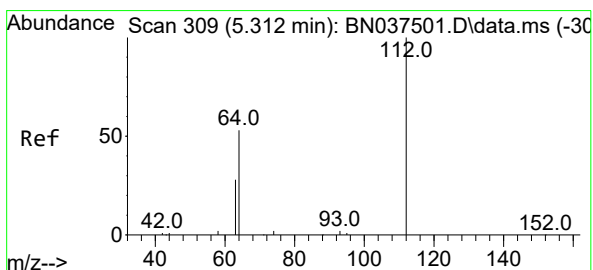
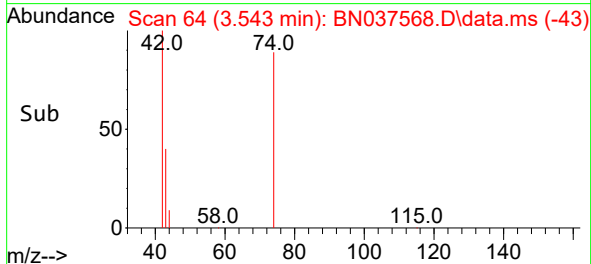
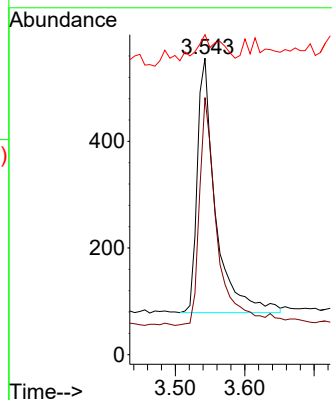
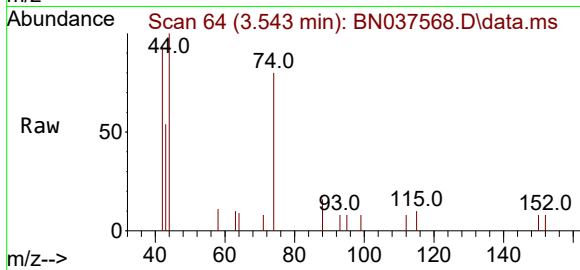




#3
n-Nitrosodimethylamine
Concen: 0.458 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

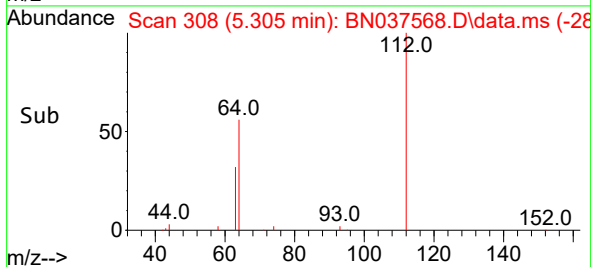
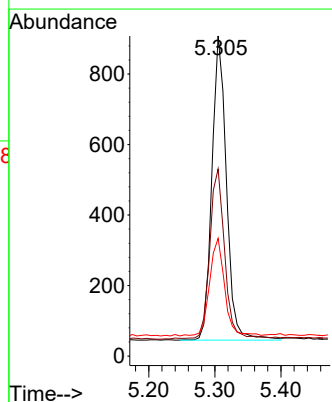
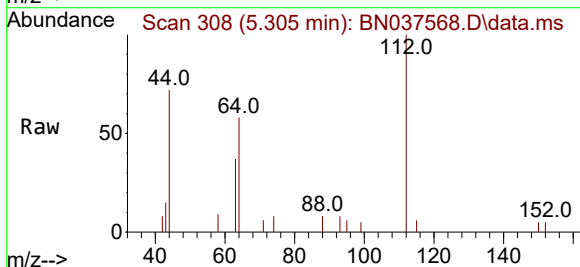
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

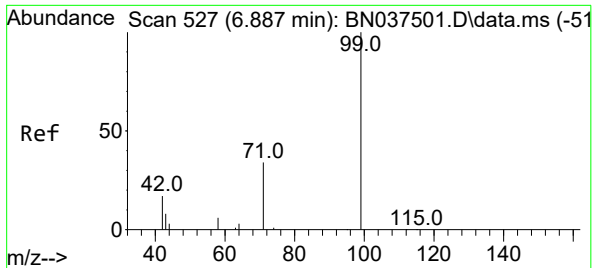
Tgt Ion: 42 Resp: 869
Ion Ratio Lower Upper
42 100
74 86.2 91.8 137.6#
44 13.2 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.340 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion: 112 Resp: 1319
Ion Ratio Lower Upper
112 100
64 57.8 45.1 67.7
63 33.3 23.8 35.8

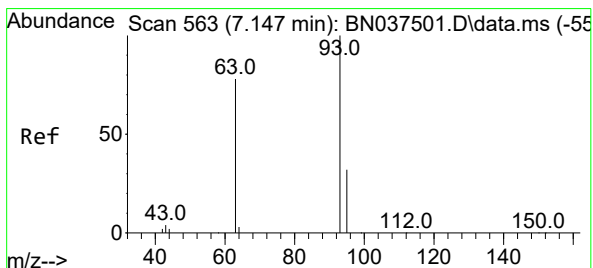
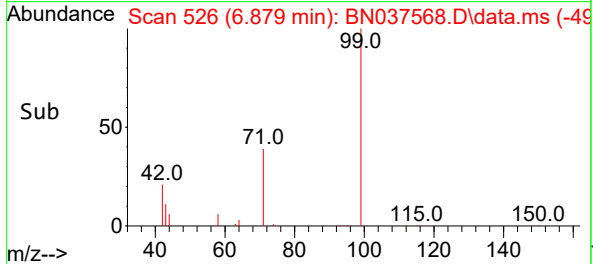
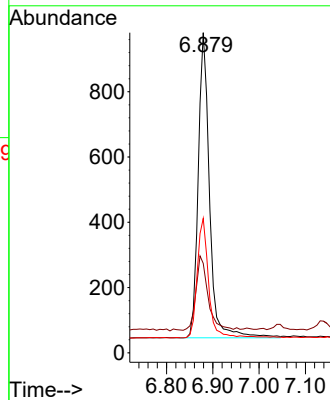
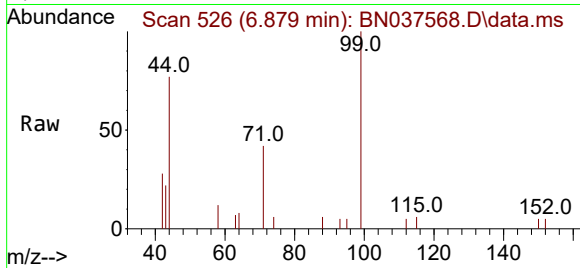




#5
Phenol-d6
Concen: 0.328 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

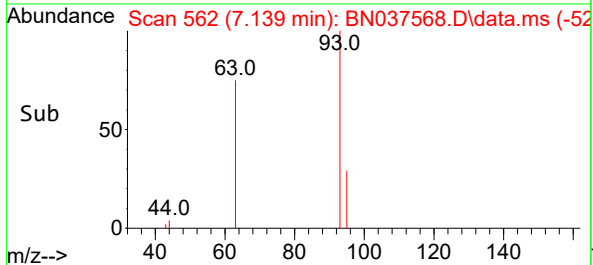
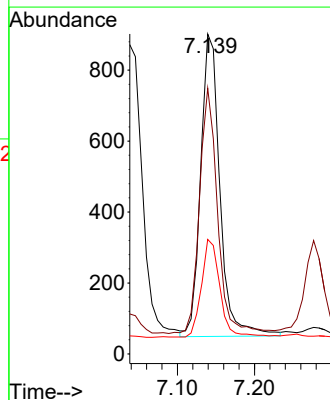
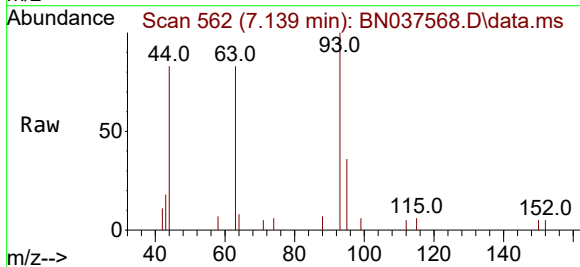
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

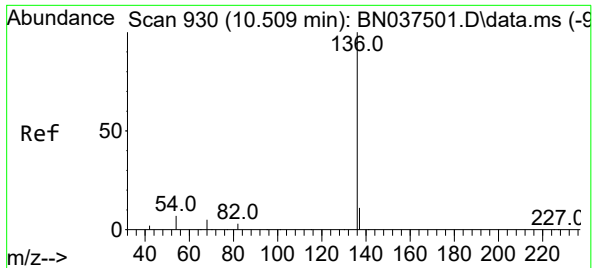
Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.8	17.1	25.7#
71	39.8	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.007 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.0	58.2	87.4
95	30.9	25.3	37.9

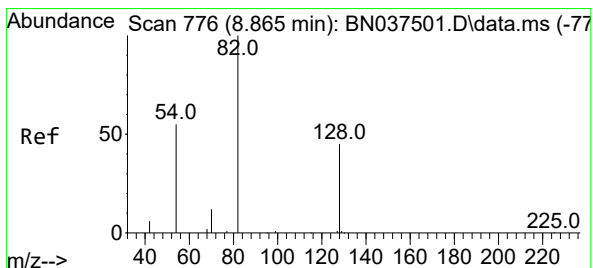
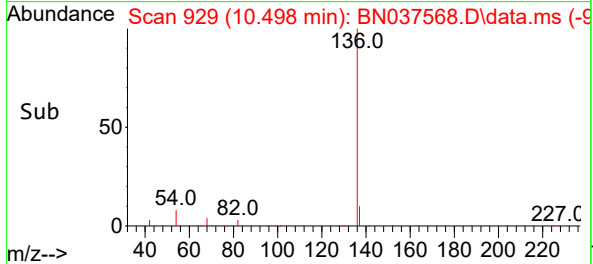
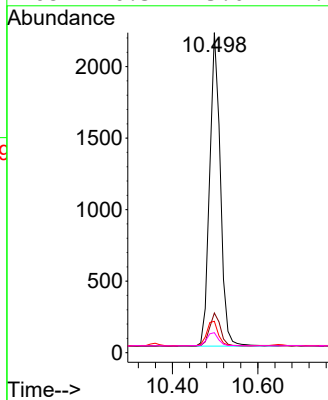
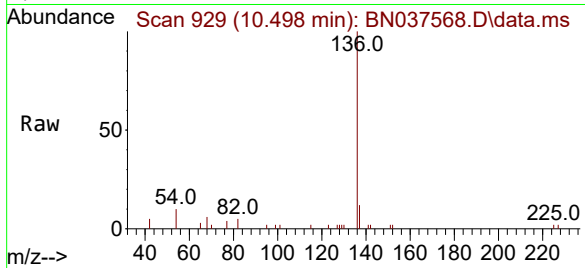




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

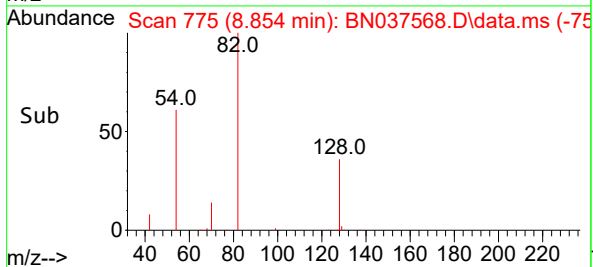
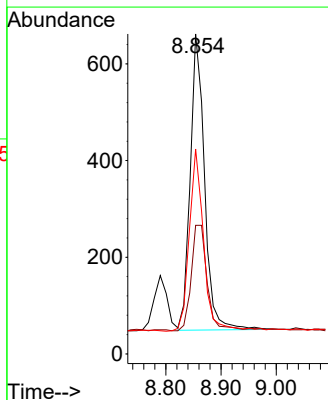
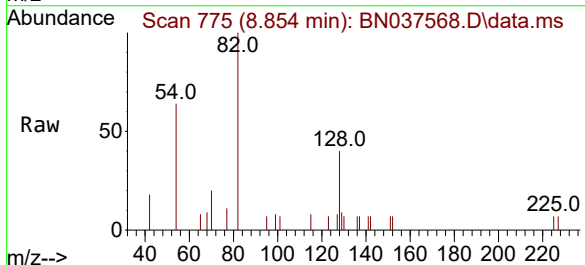
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

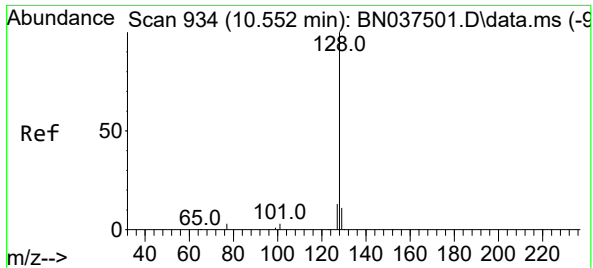
Tgt Ion:	136	Resp:	3810
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.8	14.8
54	9.8	6.6	9.8
68	6.3	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.011 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:	82	Resp:	1099
Ion	Ratio	Lower	Upper
82	100		
128	40.2	37.5	56.3
54	64.0	45.3	67.9

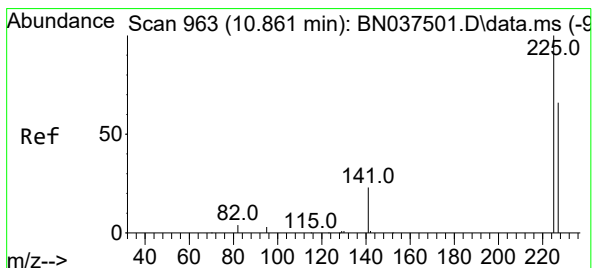
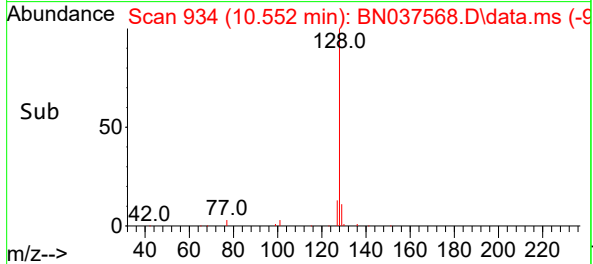
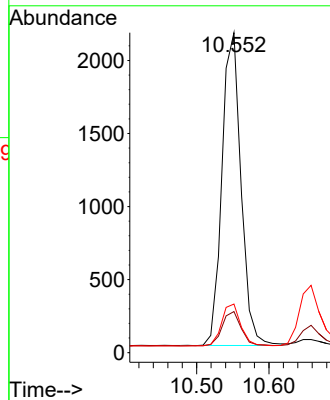
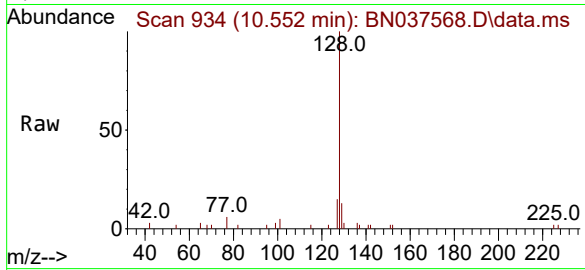




#9
Naphthalene
Concen: 0.385 ng
RT: 10.552 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

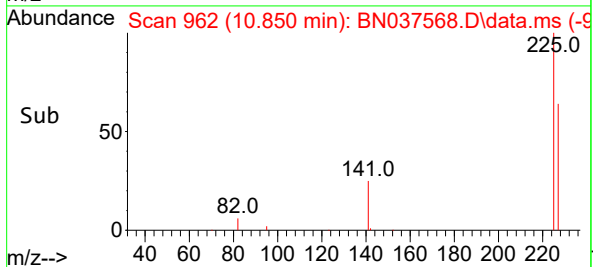
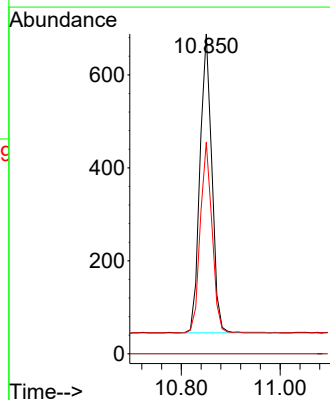
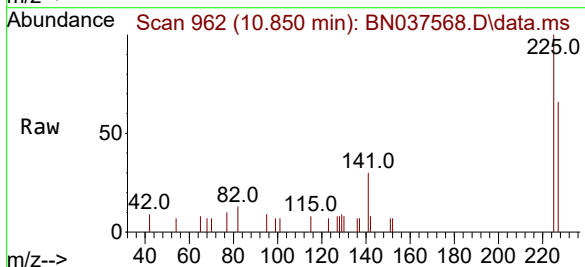
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

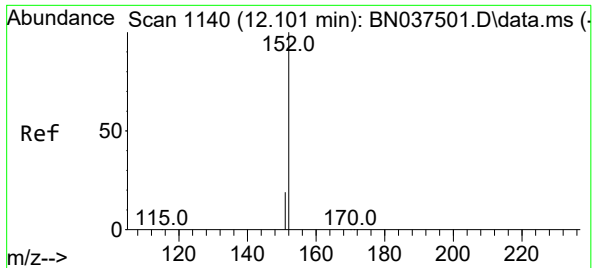
Tgt Ion	128	129	127
Resp:	3907		
Ion Ratio	100	12.8	15.2
Lower		9.7	11.5
Upper		14.5	17.3



#10
Hexachlorobutadiene
Concen: 0.476 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion	225	223	227
Resp:	1070		
Ion Ratio	100	0.0	63.1
Lower		0.0	51.0
Upper		0.0	76.4

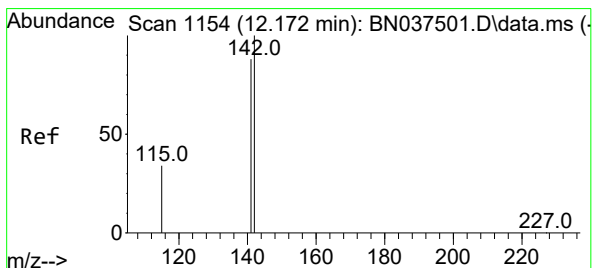
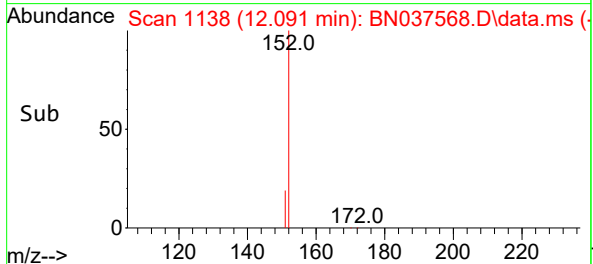
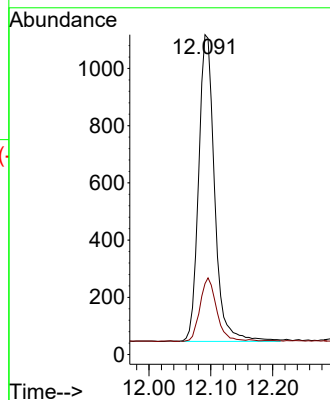
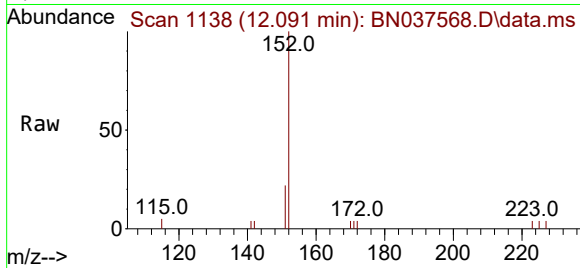




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.010 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

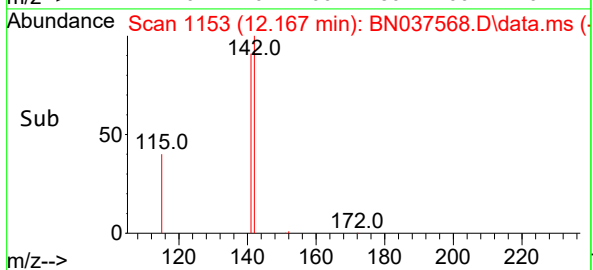
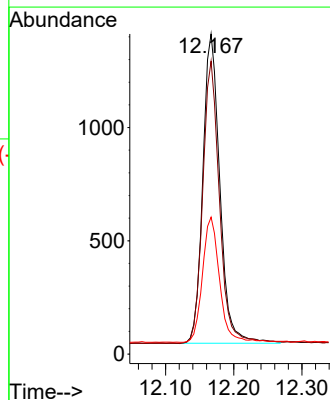
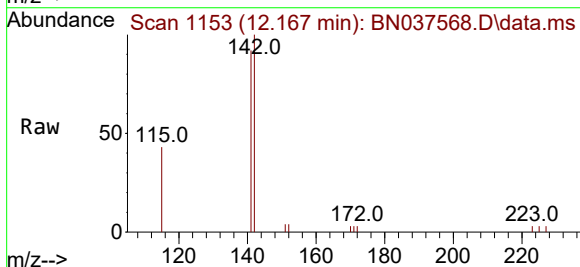
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

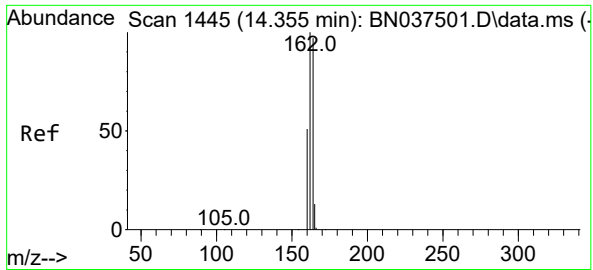
Tgt Ion:152 Resp: 1923
Ion Ratio Lower Upper
152 100
151 21.5 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:142 Resp: 2362
Ion Ratio Lower Upper
142 100
141 91.5 71.0 106.4
115 42.7 29.0 43.4

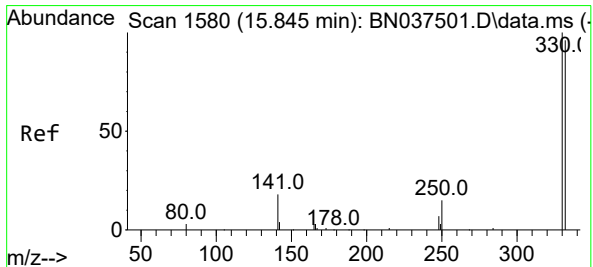
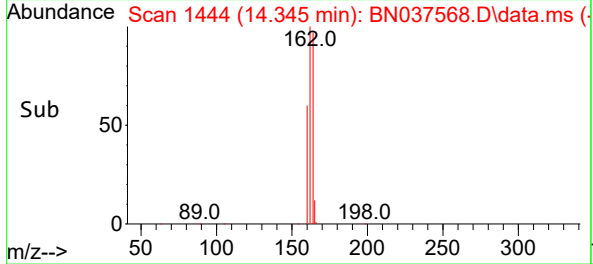
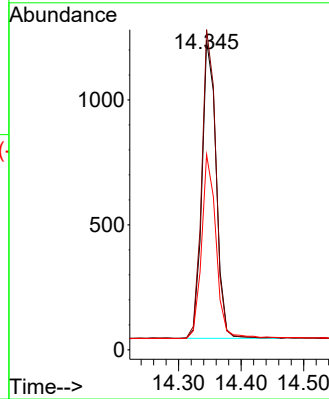
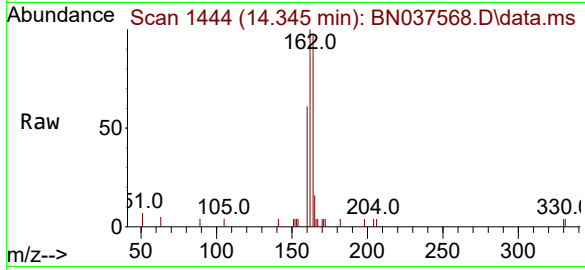




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

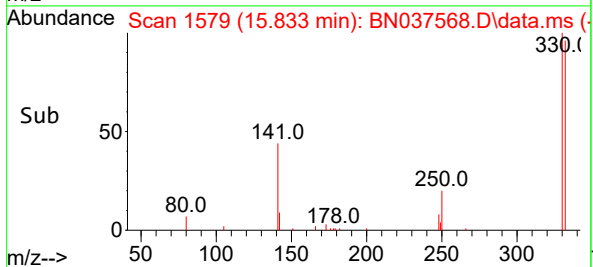
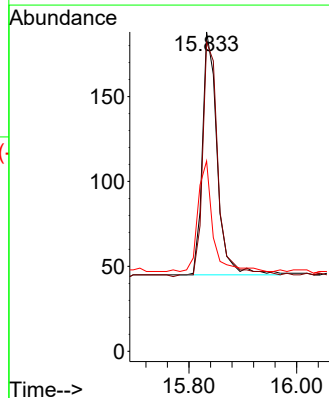
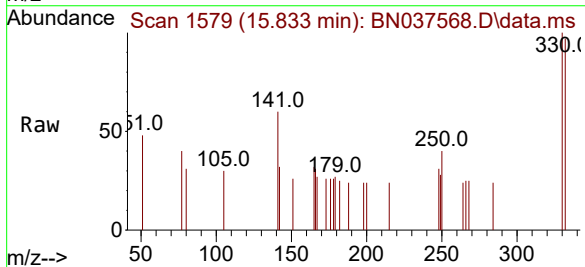
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

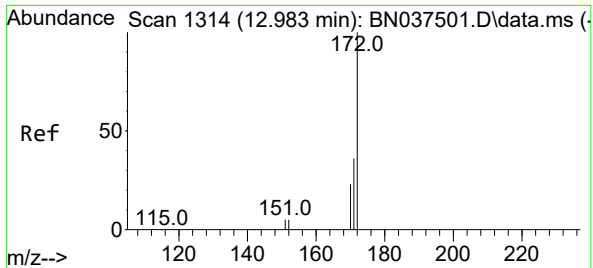
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.0	123.0
160	63.1	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.295 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion	Ratio	Lower	Upper
330	100		
332	102.6	76.1	114.1
141	45.4	33.4	50.0

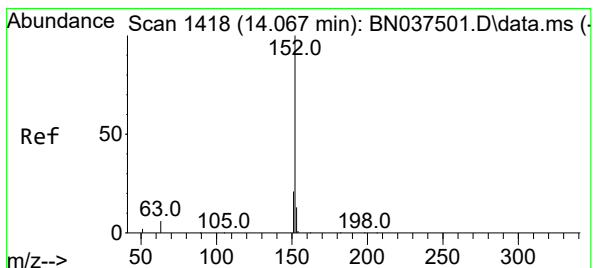
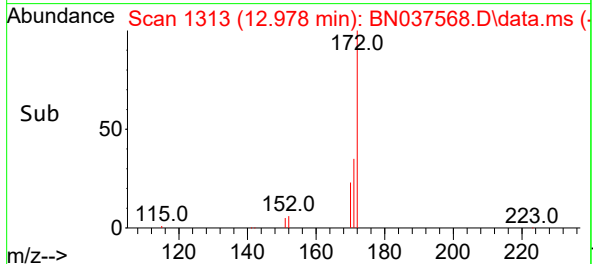
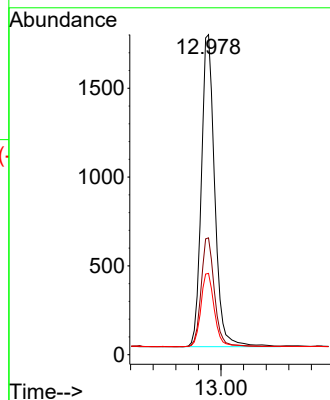
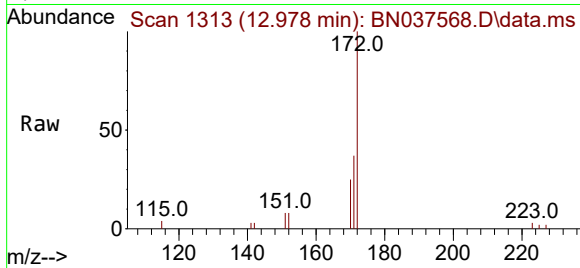




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

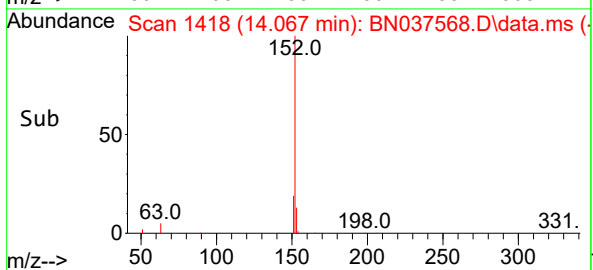
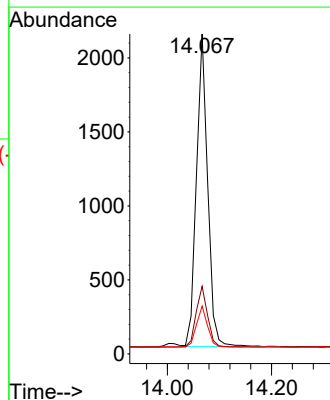
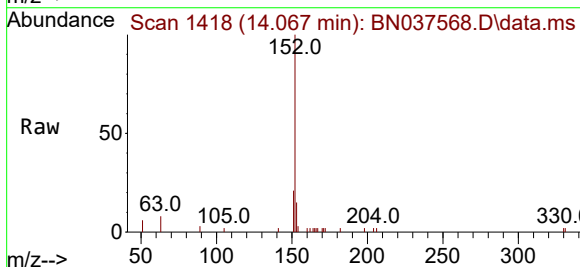
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

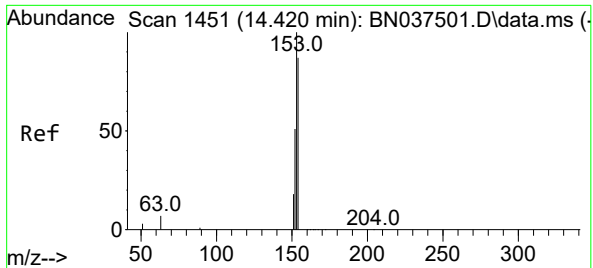
Tgt Ion:	172	Resp:	3981
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.4	44.2
170	25.4	19.4	29.0



#16
Acenaphthylene
Concen: 0.376 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:	152	Resp:	3171
Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.9	23.9
153	13.1	10.7	16.1

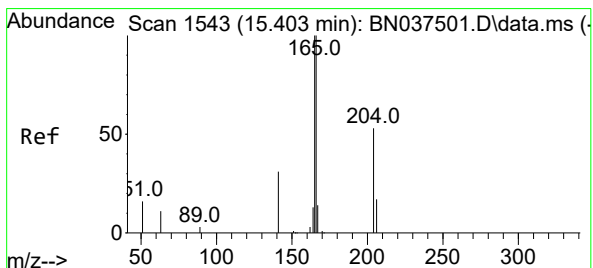
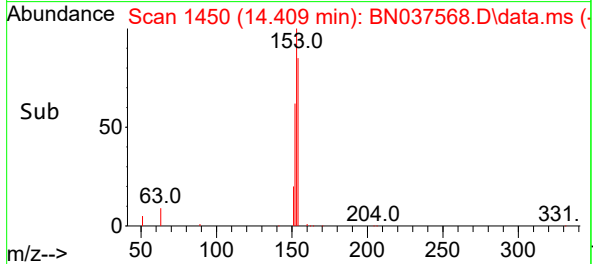
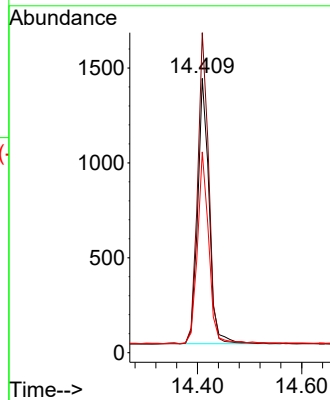
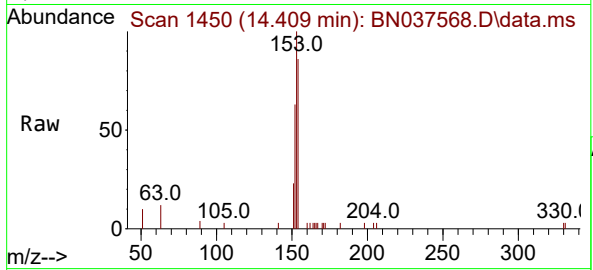




#17
Acenaphthene
Concen: 0.371 ng
RT: 14.409 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

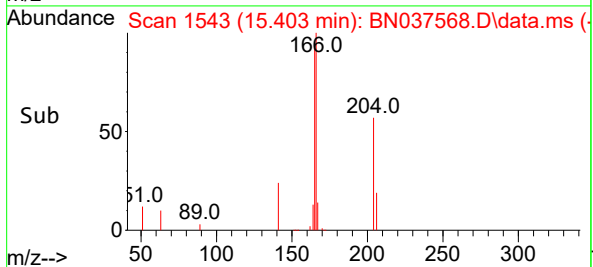
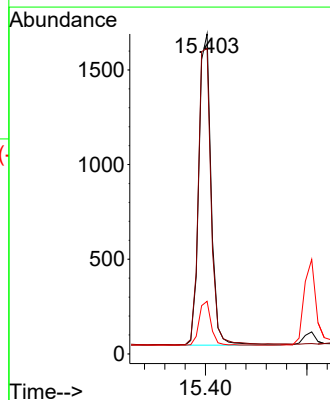
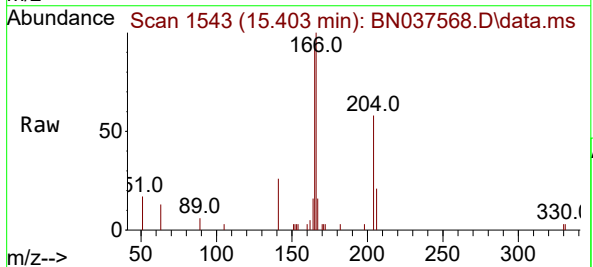
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

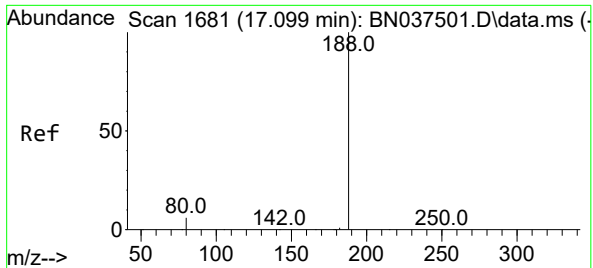
Tgt Ion:154 Resp: 2133
Ion Ratio Lower Upper
154 100
153 114.1 89.2 133.8
152 71.9 48.0 72.0



#18
Fluorene
Concen: 0.382 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:166 Resp: 2824
Ion Ratio Lower Upper
166 100
165 95.5 78.1 117.1
167 13.4 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037568.D

Acq: 05 Aug 2025 15:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

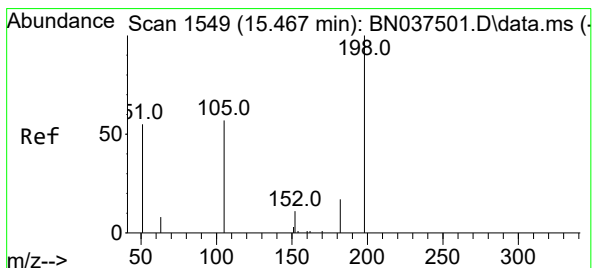
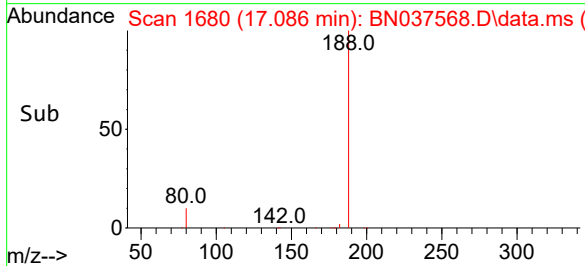
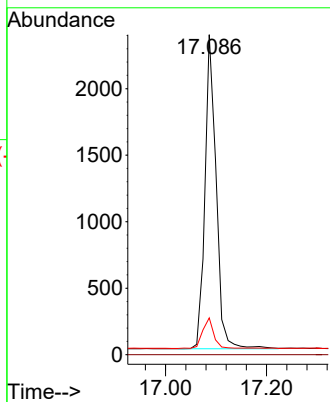
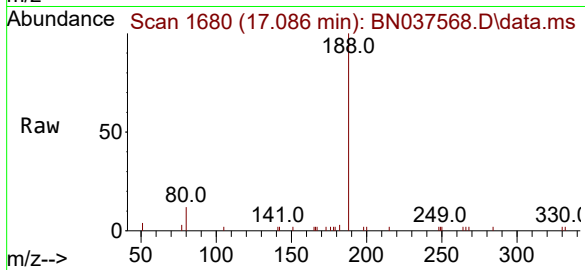
Tgt Ion:188 Resp: 3640

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.5 6.0 9.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037568.D

Acq: 05 Aug 2025 15:03

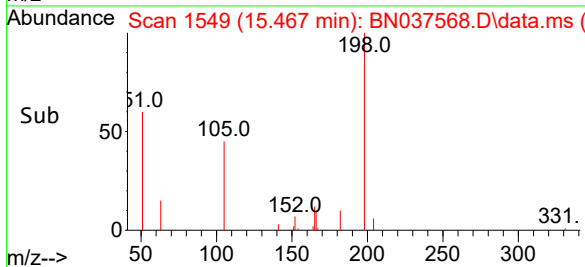
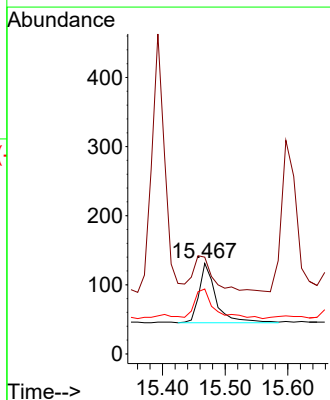
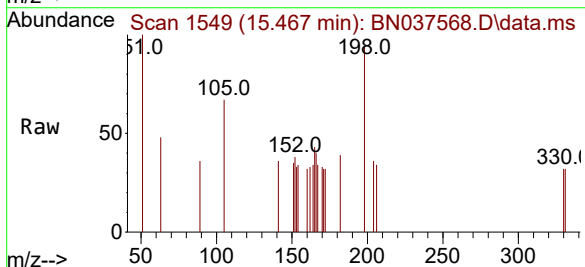
Tgt Ion:198 Resp: 170

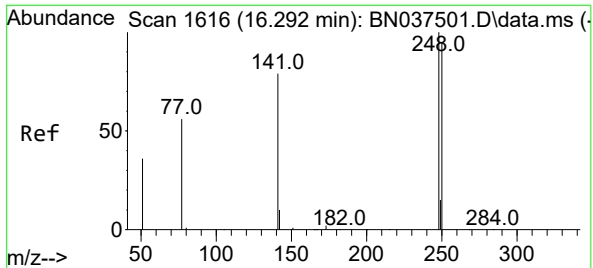
Ion Ratio Lower Upper

198 100

51 106.9 88.5 132.7

105 71.8 61.2 91.8

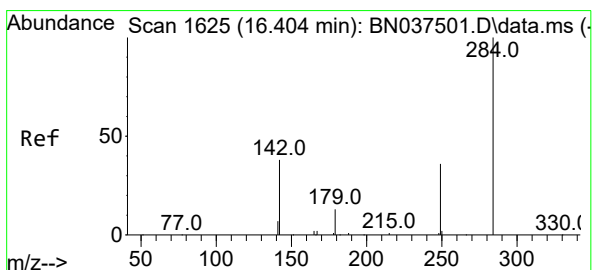
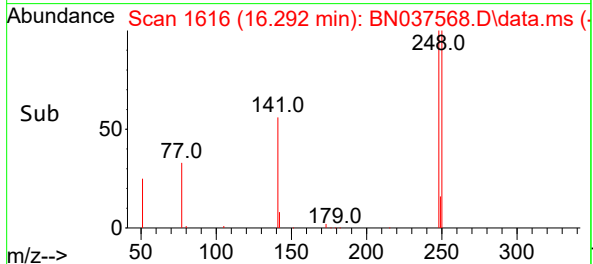
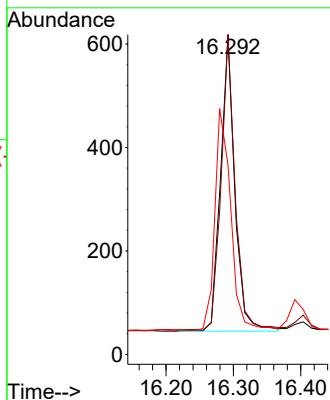
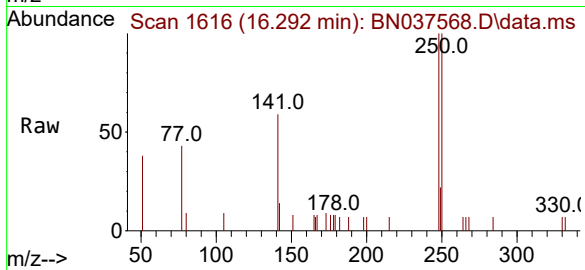




#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

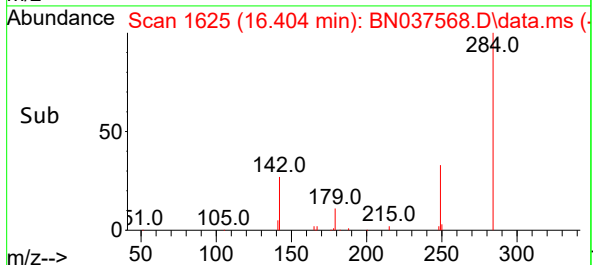
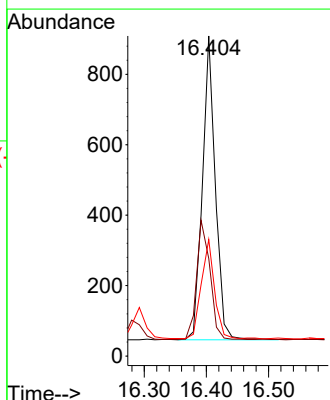
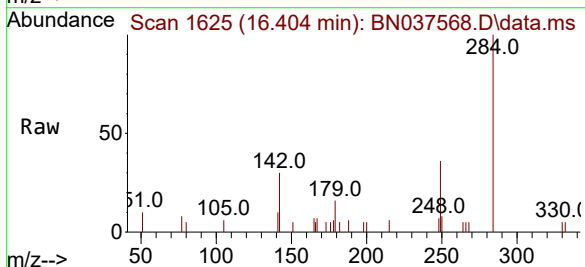
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

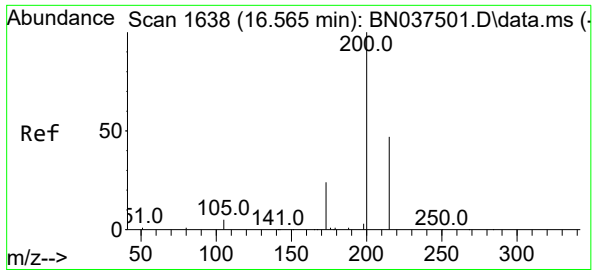
Tgt Ion:248 Resp: 843
Ion Ratio Lower Upper
248 100
250 100.0 76.2 114.2
141 59.4 63.9 95.9#



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:284 Resp: 1253
Ion Ratio Lower Upper
284 100
142 40.6 28.9 43.3
249 34.0 25.8 38.6

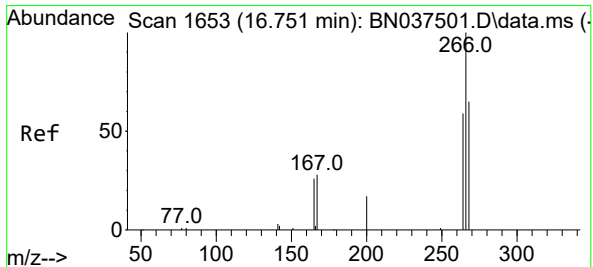
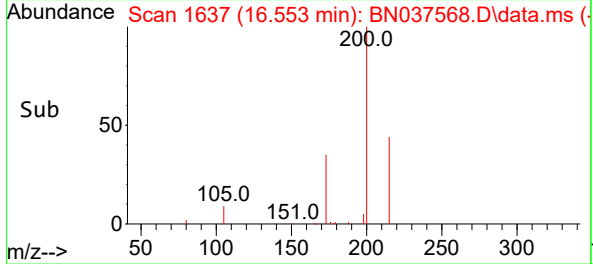
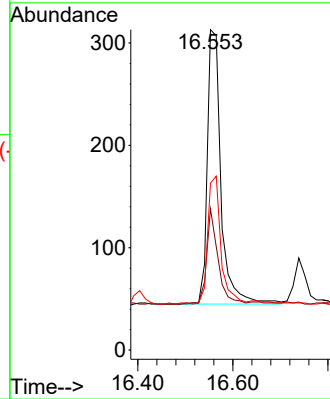
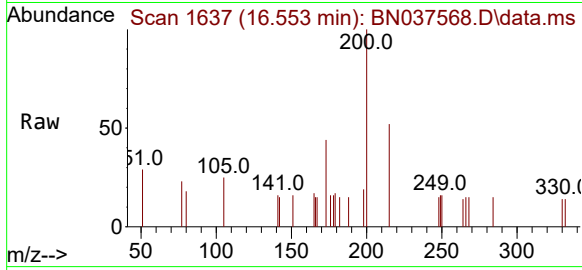




#23
Atrazine
Concen: 0.332 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

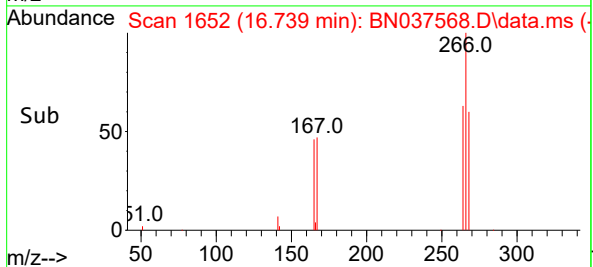
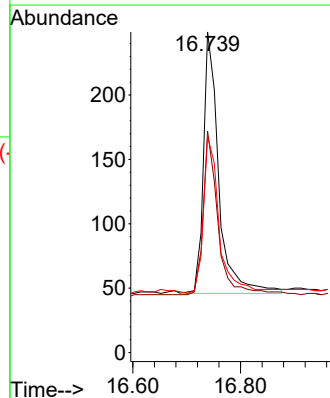
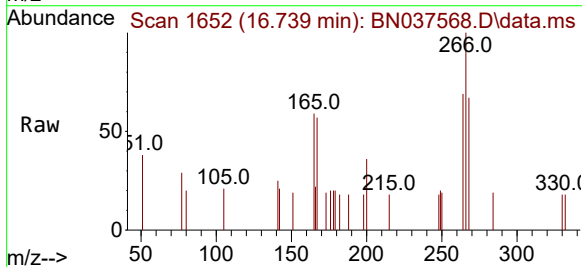
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

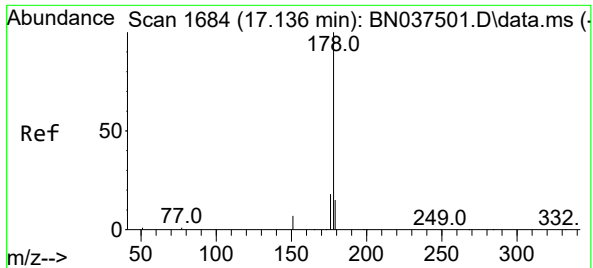
Tgt Ion:200 Resp: 540
Ion Ratio Lower Upper
200 100
173 44.1 23.2 34.8#
215 52.1 40.2 60.4



#24
Pentachlorophenol
Concen: 0.297 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:266 Resp: 401
Ion Ratio Lower Upper
266 100
264 60.1 49.3 73.9
268 63.1 51.6 77.4

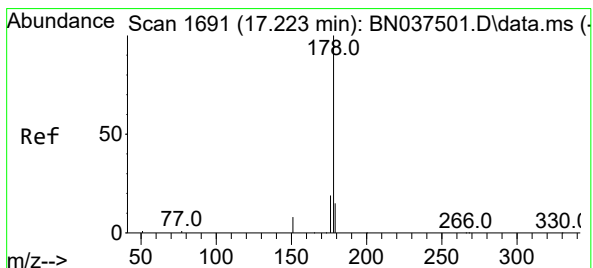
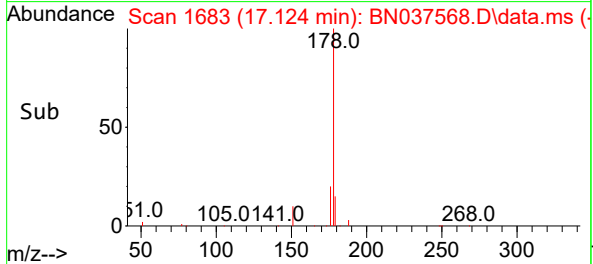
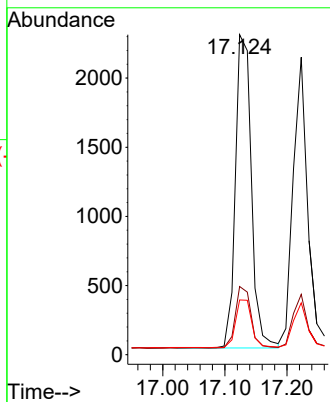
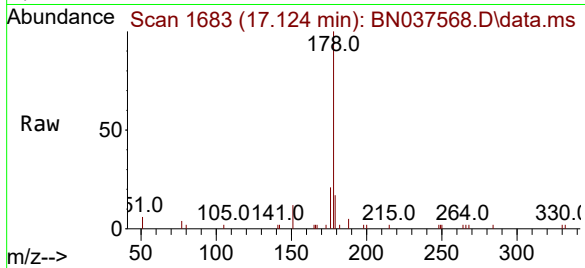




#25
Phenanthrene
Concen: 0.371 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

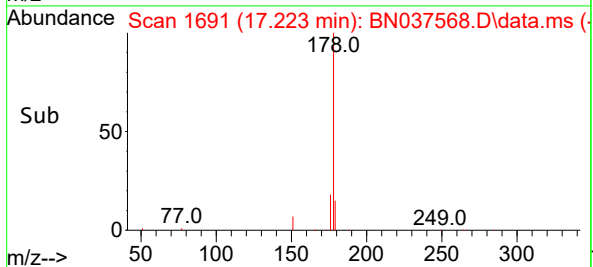
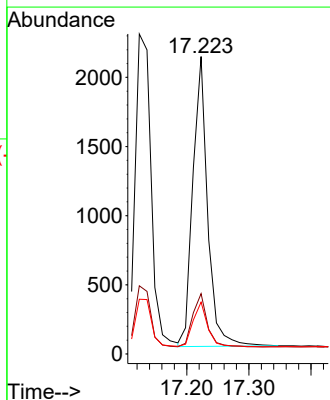
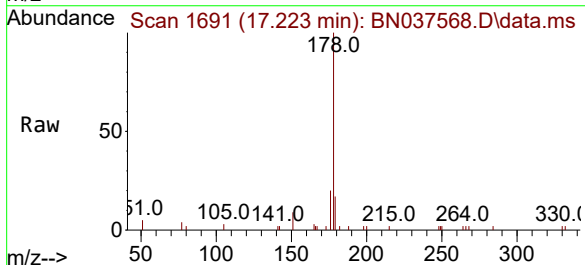
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

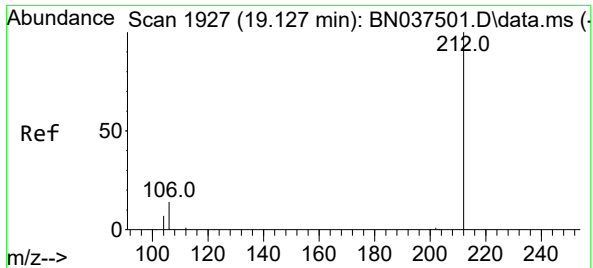
Tgt Ion:178 Resp: 4049
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.348 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:178 Resp: 3466
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.4 12.3 18.5

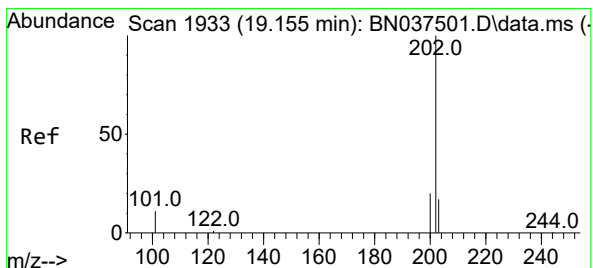
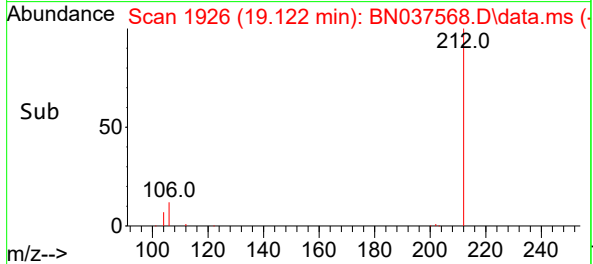
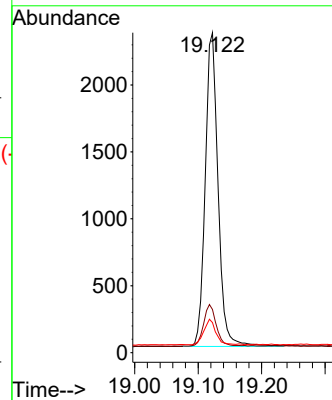
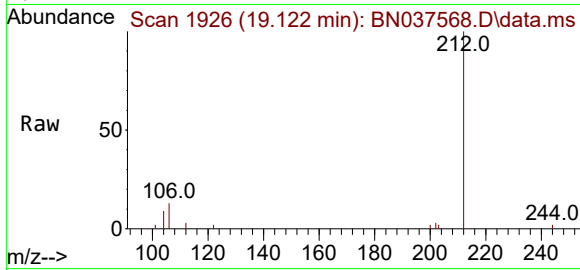




#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

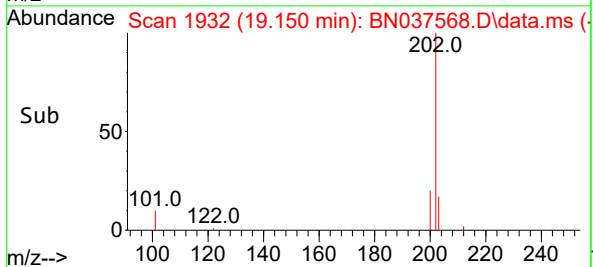
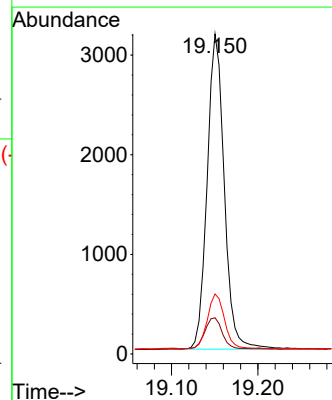
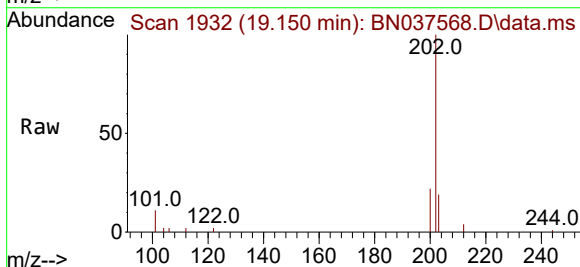
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

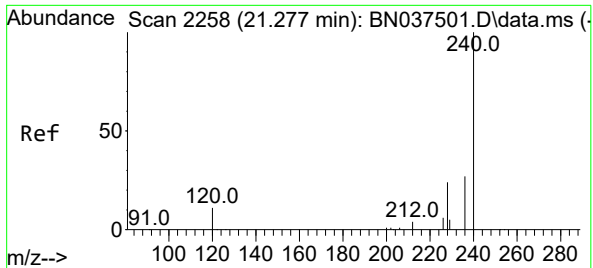
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.0	12.2	18.4
104	7.5	6.7	10.1



#28
Fluoranthene
Concen: 0.347 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.6	9.8	14.6
203	17.3	13.6	20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037568.D

Acq: 05 Aug 2025 15:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

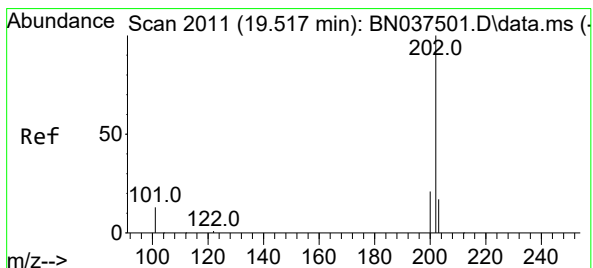
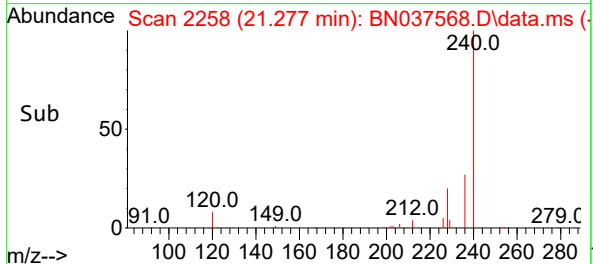
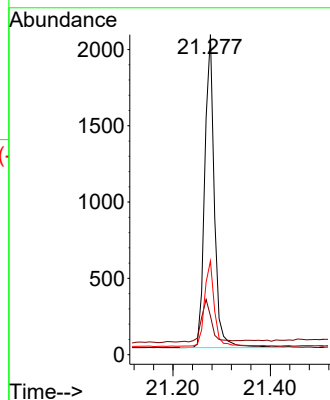
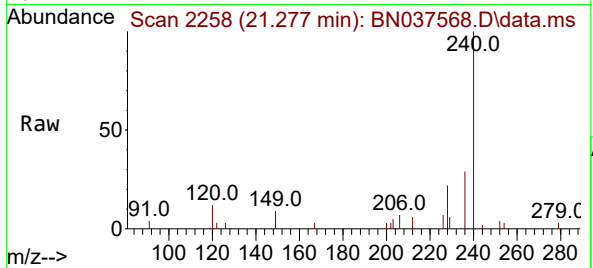
Tgt Ion:240 Resp: 2815

Ion Ratio Lower Upper

240 100

120 12.1 10.7 16.1

236 29.3 22.6 33.8



#30

Pyrene

Concen: 0.375 ng

RT: 19.513 min Scan# 2010

Delta R.T. -0.005 min

Lab File: BN037568.D

Acq: 05 Aug 2025 15:03

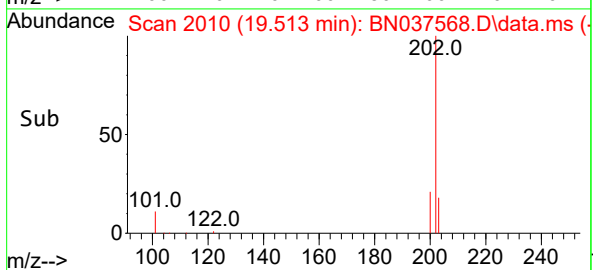
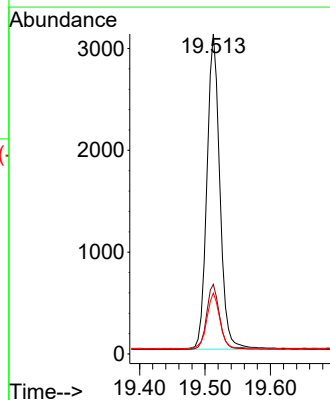
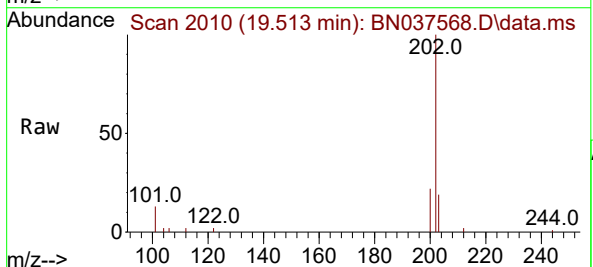
Tgt Ion:202 Resp: 4250

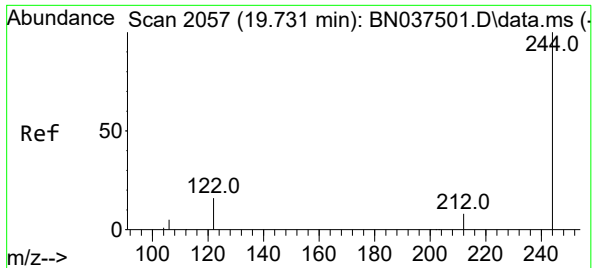
Ion Ratio Lower Upper

202 100

200 20.4 16.5 24.7

203 17.7 14.3 21.5

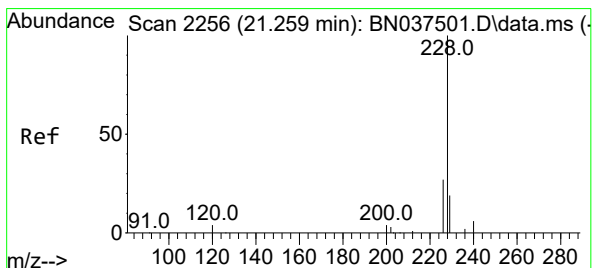
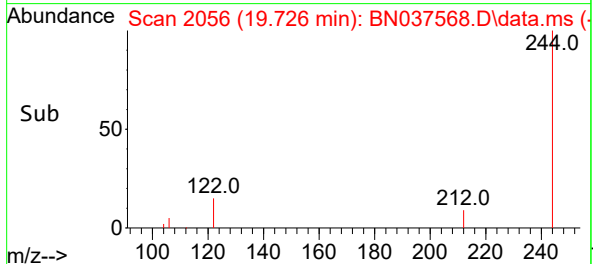
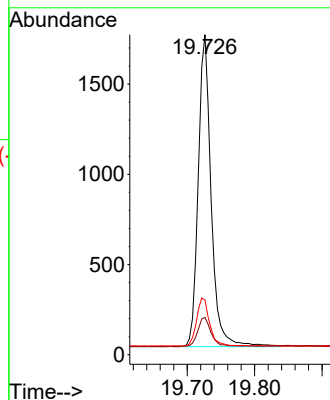
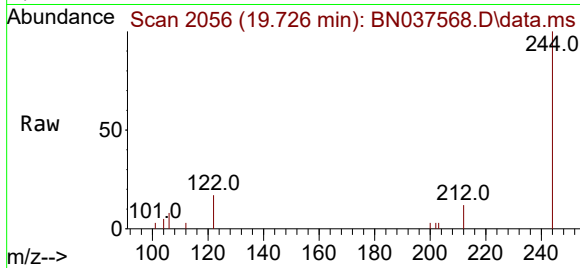




#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

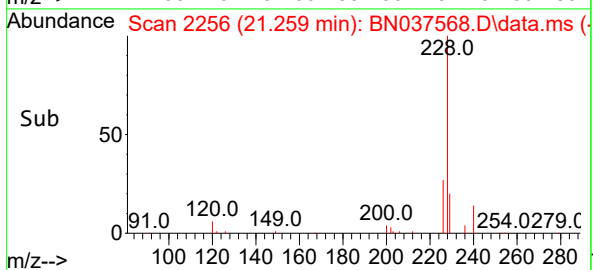
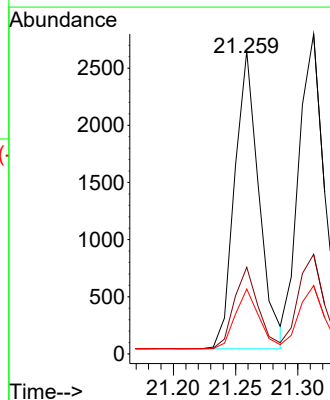
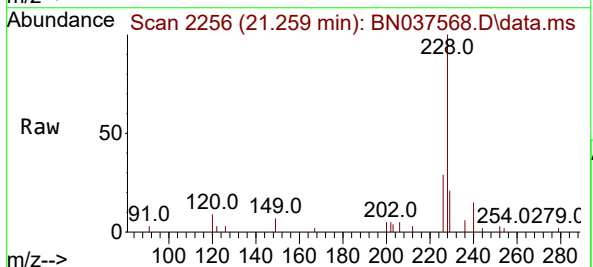
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

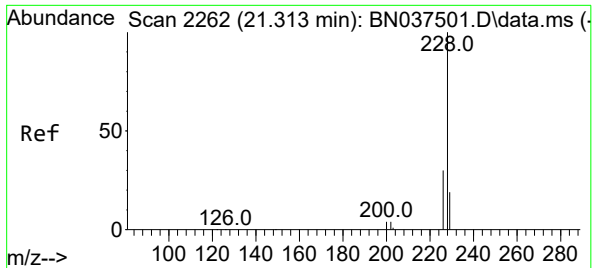
Tgt Ion:244 Resp: 2306
Ion Ratio Lower Upper
244 100
212 11.7 7.4 11.2#
122 17.1 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.358 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:228 Resp: 3529
Ion Ratio Lower Upper
228 100
226 28.6 21.9 32.9
229 21.4 15.8 23.8

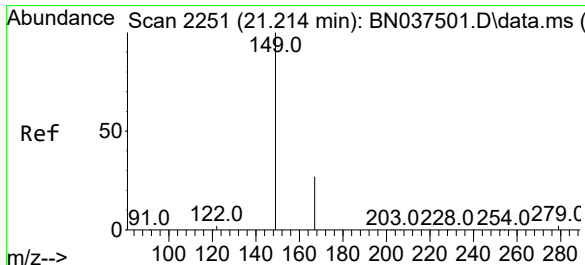
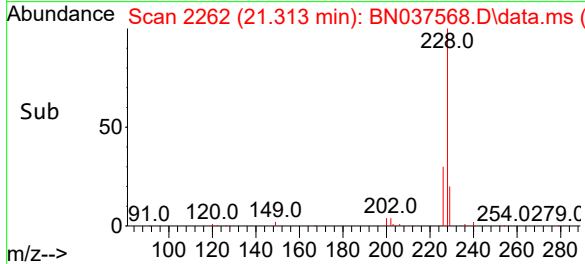
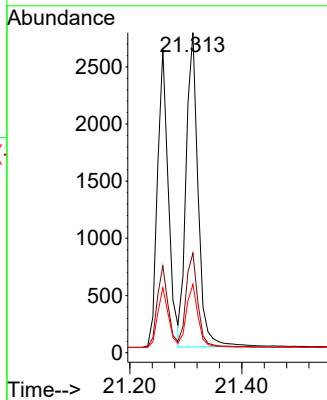
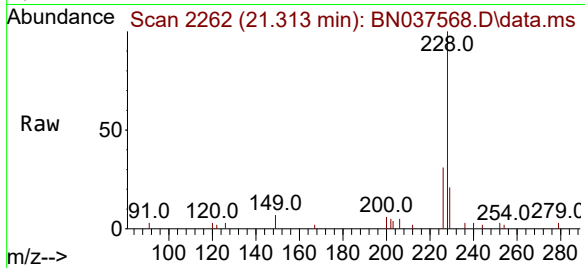




#33
Chrysene
Concen: 0.398 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

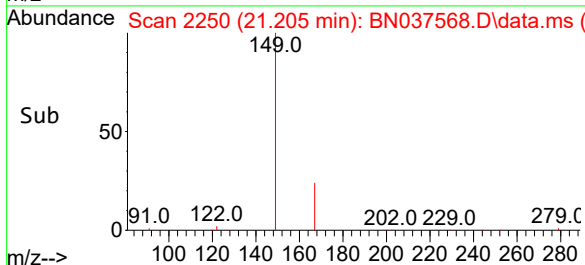
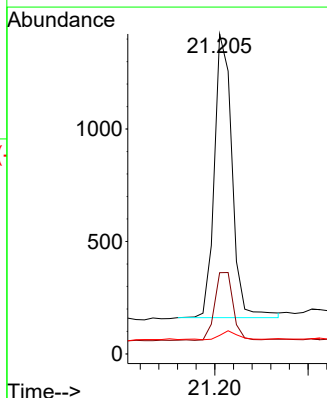
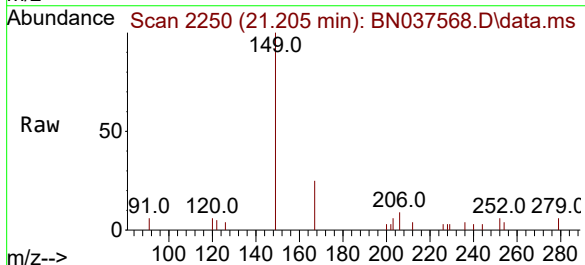
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

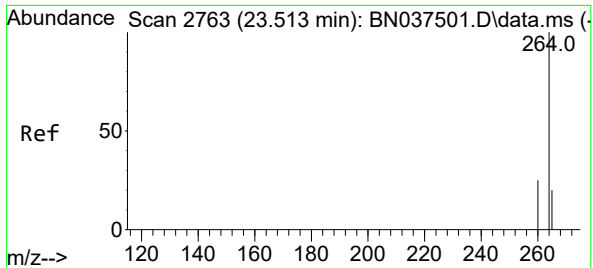
Tgt Ion:228 Resp: 4089
Ion Ratio Lower Upper
228 100
226 31.2 24.2 36.4
229 21.3 16.1 24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.374 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:149 Resp: 1659
Ion Ratio Lower Upper
149 100
167 24.5 21.8 32.8
279 3.1 3.0 4.4

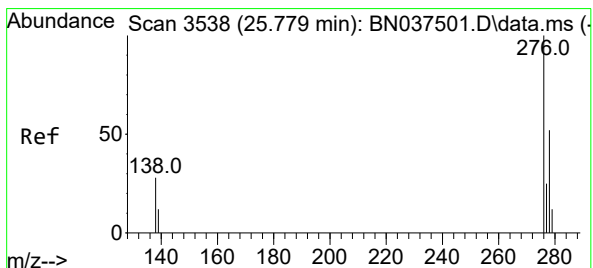
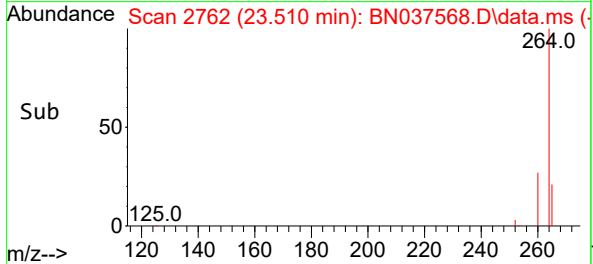
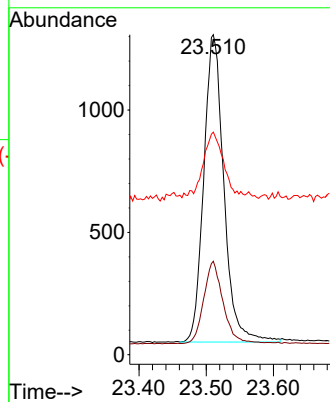
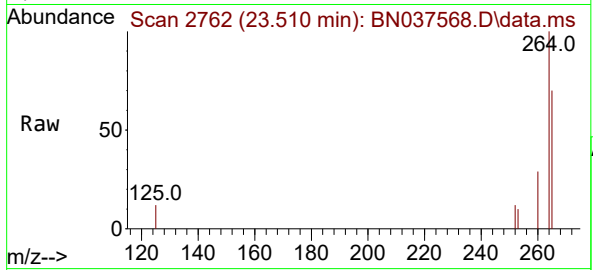




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.510 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

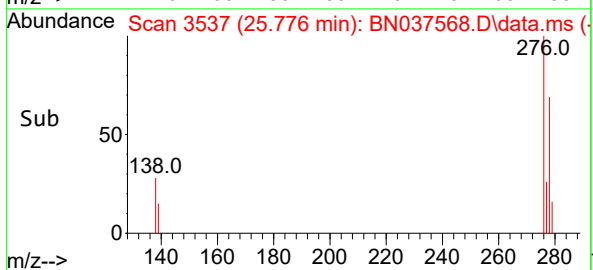
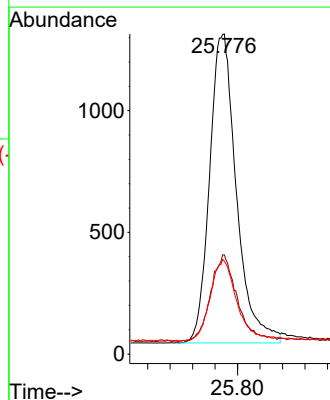
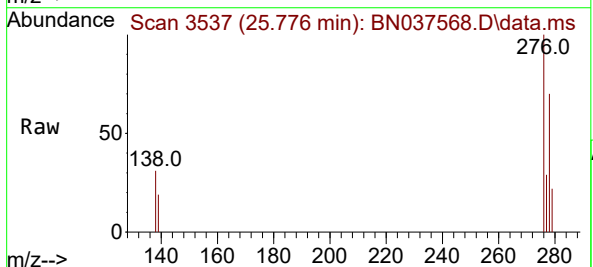
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

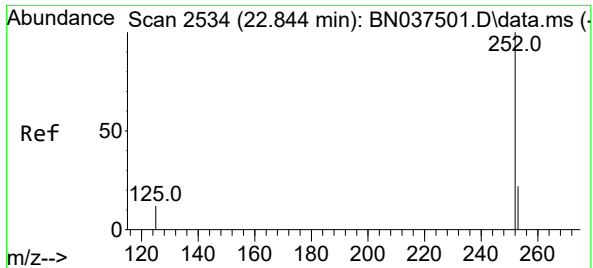
Tgt Ion:264 Resp: 2610
Ion Ratio Lower Upper
264 100
260 29.2 21.2 31.8
265 69.6 40.4 60.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.387 ng
RT: 25.776 min Scan# 3537
Delta R.T. -0.003 min
Lab File: BN037568.D
Acq: 05 Aug 2025 15:03

Tgt Ion:276 Resp: 4202
Ion Ratio Lower Upper
276 100
138 27.6 24.0 36.0
277 25.9 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.386 ng

RT: 22.838 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037568.D

Acq: 05 Aug 2025 15:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

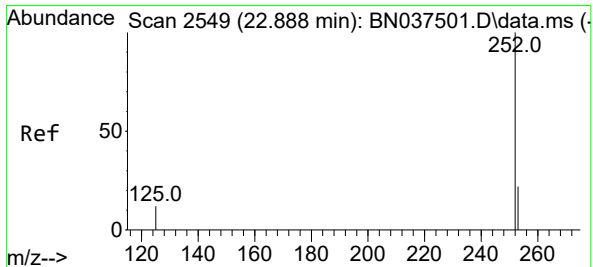
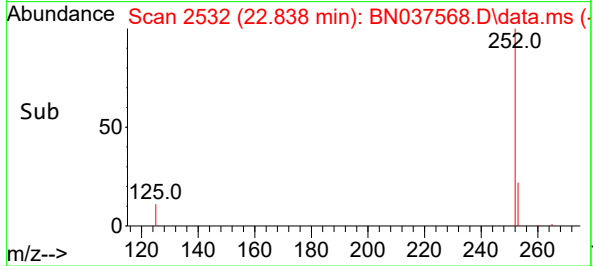
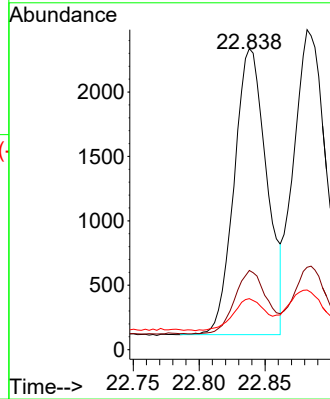
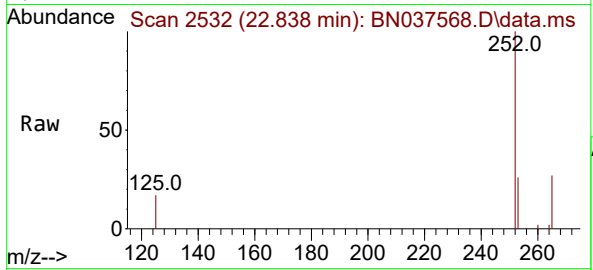
Tgt Ion:252 Resp: 3823

Ion Ratio Lower Upper

252 100

253 26.3 19.5 29.3

125 16.9 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.415 ng

RT: 22.882 min Scan# 2547

Delta R.T. -0.006 min

Lab File: BN037568.D

Acq: 05 Aug 2025 15:03

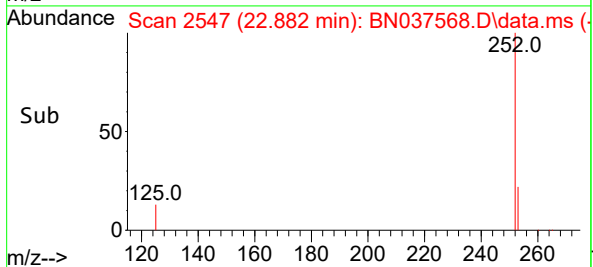
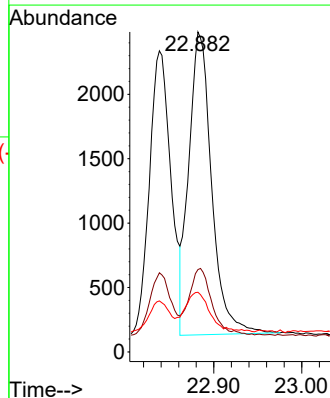
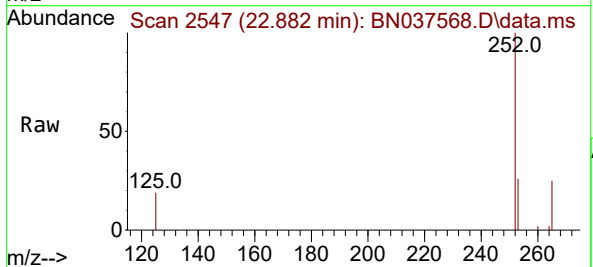
Tgt Ion:252 Resp: 4243

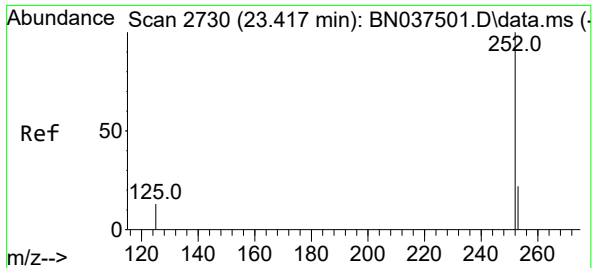
Ion Ratio Lower Upper

252 100

253 25.7 19.5 29.3

125 18.6 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.373 ng

RT: 23.411 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037568.D

Acq: 05 Aug 2025 15:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

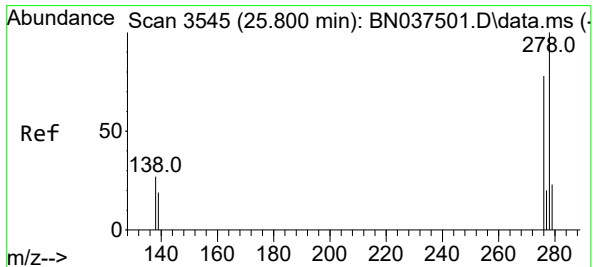
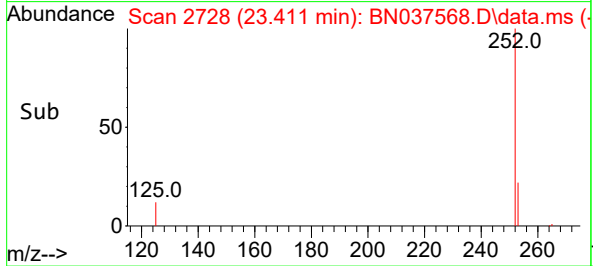
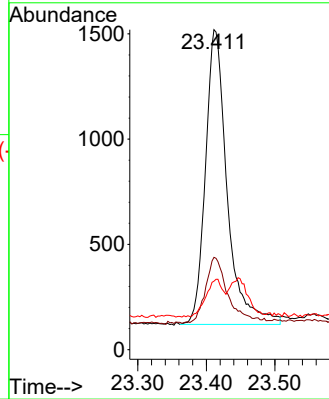
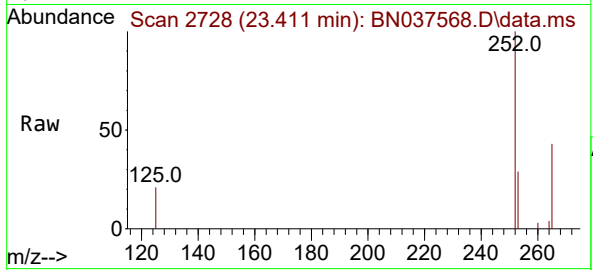
Tgt Ion:252 Resp: 3084

Ion Ratio Lower Upper

252 100

253 28.8 19.9 29.9

125 21.4 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.380 ng

RT: 25.788 min Scan# 3541

Delta R.T. -0.012 min

Lab File: BN037568.D

Acq: 05 Aug 2025 15:03

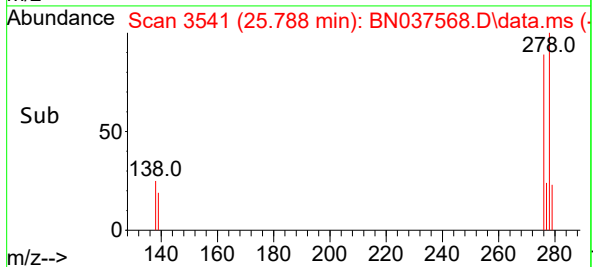
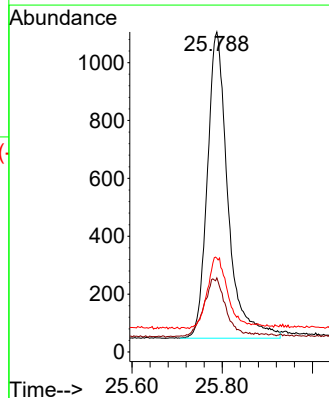
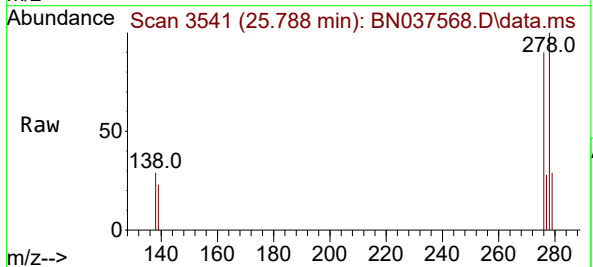
Tgt Ion:278 Resp: 3347

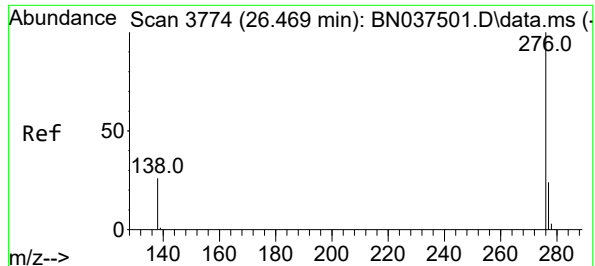
Ion Ratio Lower Upper

278 100

139 23.1 17.5 26.3

279 29.3 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 26.455 min Scan# 31

Delta R.T. -0.015 min

Lab File: BN037568.D

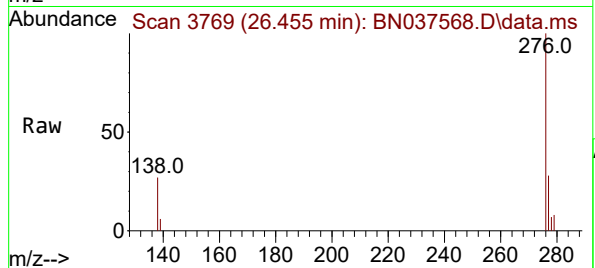
Acq: 05 Aug 2025 15:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



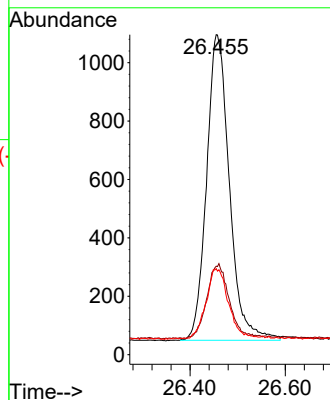
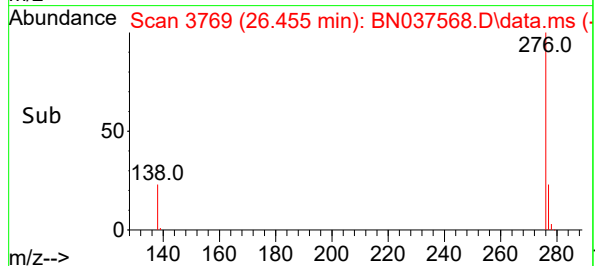
Tgt Ion:276 Resp: 3483

Ion Ratio Lower Upper

276 100

277 27.6 20.9 31.3

138 26.9 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
 Data File : BN037568.D
 Acq On : 05 Aug 2025 15:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 06 01:40:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 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	69	0.00
2	1,4-Dioxane	0.385	0.388	-0.8	67	0.00
3	n-Nitrosodimethylamine	0.484	0.554	-14.5	82	0.00
4 S	2-Fluorophenol	0.989	0.840	15.1	59	0.00
5 S	Phenol-d6	1.241	1.017	18.0	59	0.00
6	bis(2-Chloroethyl)ether	1.033	0.943	8.7	63	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	65	-0.01
8 S	Nitrobenzene-d5	0.299	0.288	3.7	67	-0.01
9	Naphthalene	1.067	1.025	3.9	64	0.00
10	Hexachlorobutadiene	0.236	0.281	-19.1	78	-0.01
11 SURR	2-Methylnaphthalene-d10	0.574	0.505	12.0	61	-0.01
12	2-Methylnaphthalene	0.701	0.620	11.6	60	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	57	-0.01
14 S	2,4,6-Tribromophenol	0.197	0.145	26.4#	47#	-0.01
15 S	2-Fluorobiphenyl	2.080	2.112	-1.5	58	0.00
16	Acenaphthylene	1.792	1.682	6.1	55	0.00
17	Acenaphthene	1.218	1.132	7.1	55	-0.01
18	Fluorene	1.569	1.498	4.5	57	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	56	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.047	17.5	63	0.00
21	4-Bromophenyl-phenylether	0.256	0.232	9.4	54	0.00
22	Hexachlorobenzene	0.331	0.344	-3.9	59	0.00
23	Atrazine	0.179	0.148	17.3	53	-0.01
24	Pentachlorophenol	0.149	0.110	26.2#	49#	-0.01
25	Phenanthrene	1.198	1.112	7.2	54	-0.01
26	Anthracene	1.093	0.952	12.9	53	0.00
27 SURR	Fluoranthene-d10	1.060	0.905	14.6	53	0.00
28	Fluoranthene	1.382	1.199	13.2	52	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	54	0.00
30	Pyrene	1.612	1.510	6.3	51	0.00
31 S	Terphenyl-d14	0.859	0.819	4.7	52	0.00
32	Benzo(a)anthracene	1.401	1.254	10.5	50	0.00
33	Chrysene	1.459	1.453	0.4	55	0.00
34	Bis(2-ethylhexyl)phthalate	0.630	0.589	6.5	56	0.00
35 I	Perylene-d12	1.000	1.000	0.0	54	0.00
36	Indeno(1,2,3-cd)pyrene	1.666	1.610	3.4	58	0.00
37	Benzo(b)fluoranthene	1.518	1.465	3.5	55	0.00
38	Benzo(k)fluoranthene	1.567	1.626	-3.8	59	0.00
39 C	Benzo(a)pyrene	1.267	1.182	6.7	54	0.00
40	Dibenzo(a,h)anthracene	1.349	1.282	5.0	57	-0.01
41	Benzo(g,h,i)perylene	1.397	1.334	4.5	55	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037568.D
Acq On : 05 Aug 2025 15:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 06 01:40:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 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	69	0.00
2	1,4-Dioxane	0.400	0.404	-1.0	67	0.00
3	n-Nitrosodimethylamine	0.400	0.458	-14.5	82	0.00
4 S	2-Fluorophenol	0.400	0.340	15.0	59	0.00
5 S	Phenol-d6	0.400	0.328	18.0	59	0.00
6	bis(2-Chloroethyl)ether	0.400	0.365	8.8	63	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	65	-0.01
8 S	Nitrobenzene-d5	0.400	0.386	3.5	67	-0.01
9	Naphthalene	0.400	0.385	3.8	64	0.00
10	Hexachlorobutadiene	0.400	0.476	-19.0	78	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	61	-0.01
12	2-Methylnaphthalene	0.400	0.354	11.5	60	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	57	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.295	26.3#	47	-0.01
15 S	2-Fluorobiphenyl	0.400	0.406	-1.5	58	0.00
16	Acenaphthylene	0.400	0.376	6.0	55	0.00
17	Acenaphthene	0.400	0.371	7.3	55	-0.01
18	Fluorene	0.400	0.382	4.5	57	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	56	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.433	-8.2	63	0.00
21	4-Bromophenyl-phenylether	0.400	0.361	9.8	54	0.00
22	Hexachlorobenzene	0.400	0.416	-4.0	59	0.00
23	Atrazine	0.400	0.332	17.0	53	-0.01
24	Pentachlorophenol	0.400	0.297	25.8#	49	-0.01
25	Phenanthrene	0.400	0.371	7.3	54	-0.01
26	Anthracene	0.400	0.348	13.0	53	0.00
27 SURR	Fluoranthene-d10	0.400	0.342	14.5	53	0.00
28	Fluoranthene	0.400	0.347	13.3	52	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	54	0.00
30	Pyrene	0.400	0.375	6.3	51	0.00
31 S	Terphenyl-d14	0.400	0.381	4.8	52	0.00
32	Benzo(a)anthracene	0.400	0.358	10.5	50	0.00
33	Chrysene	0.400	0.398	0.5	55	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.374	6.5	56	0.00
35 I	Perylene-d12	0.400	0.400	0.0	54	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.387	3.3	58	0.00
37	Benzo(b)fluoranthene	0.400	0.386	3.5	55	0.00
38	Benzo(k)fluoranthene	0.400	0.415	-3.7	59	0.00
39 C	Benzo(a)pyrene	0.400	0.373	6.8	54	0.00
40	Dibenzo(a,h)anthracene	0.400	0.380	5.0	57	-0.01
41	Benzo(g,h,i)perylene	0.400	0.382	4.5	55	-0.01

(#) = Out of Range

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



QC SAMPLE DATA

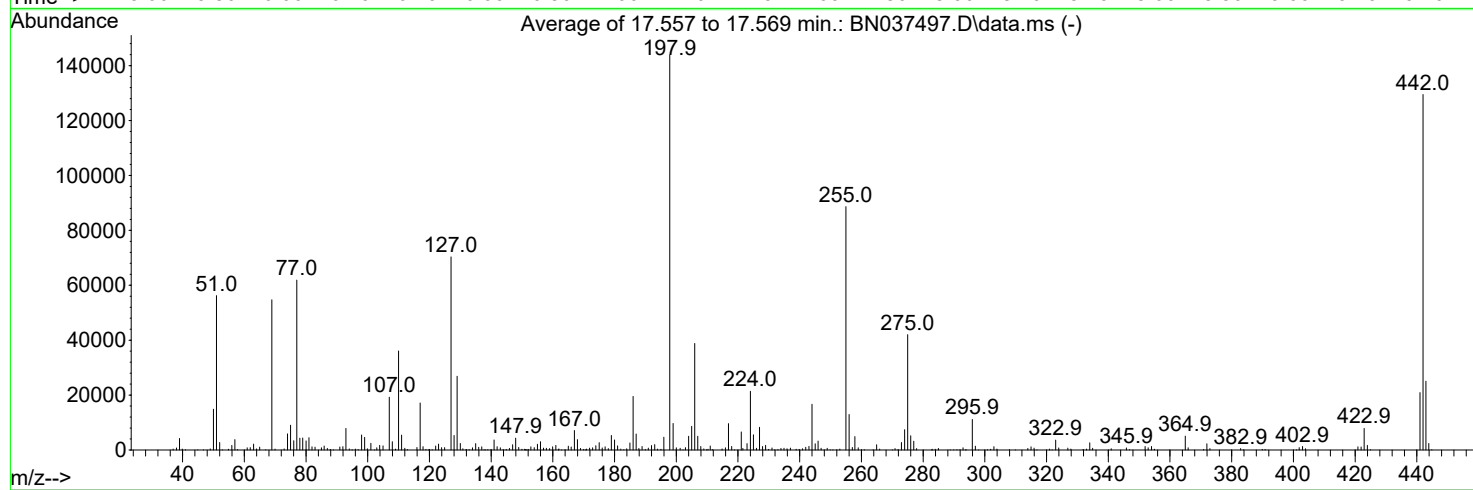
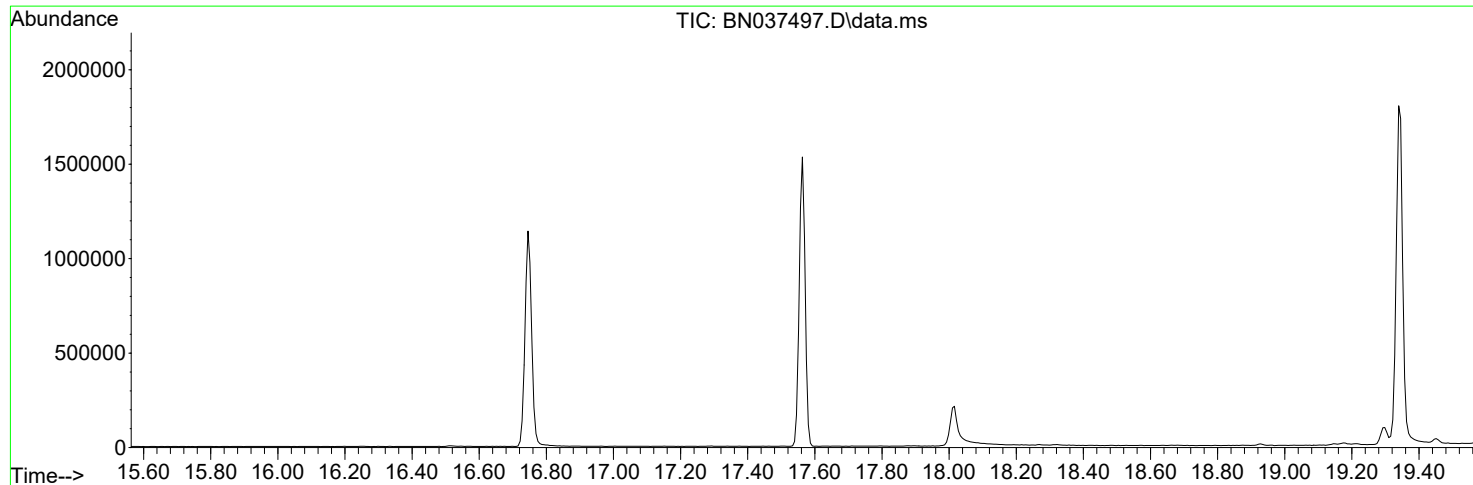
- 1
- 2
- 3
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- 8
- 9
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- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037497.D
Acq On : 15 Jul 2025 10:57
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-BN071525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jul 16 01:39:21 2025



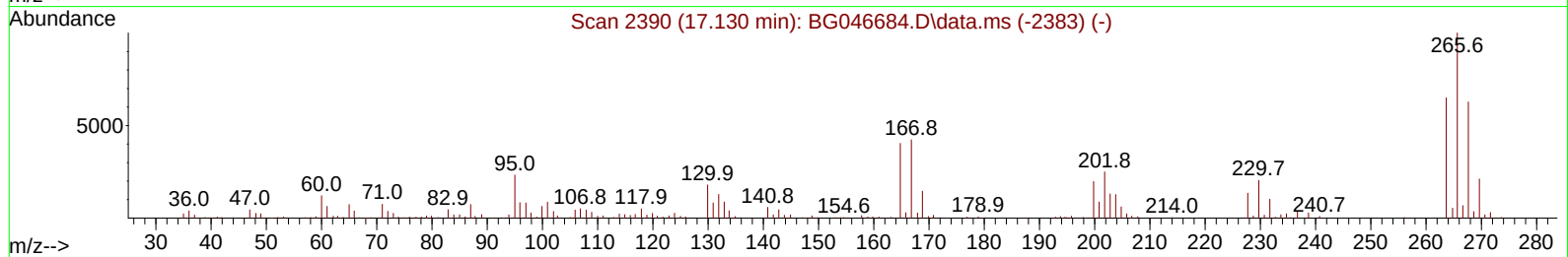
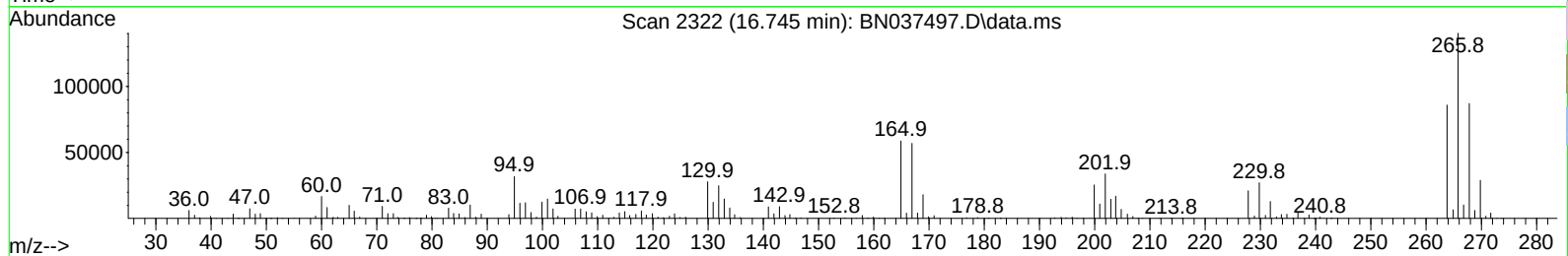
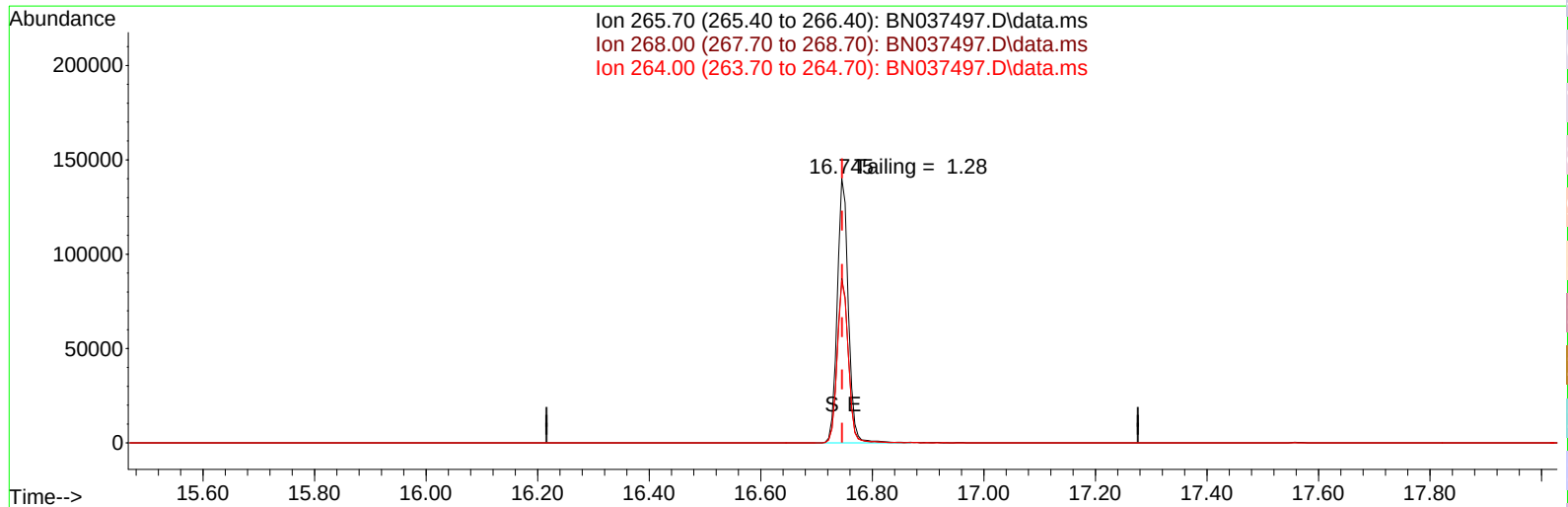
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

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	54709	PASS
70	69	0.00	2	0.6	344	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	143808	PASS
199	198	5	9	6.7	9669	PASS
365	198	1	100	3.5	5100	PASS
441	443	0.01	150	83.6	20941	PASS
442	442	100	100	100.0	129491	PASS
443	442	15	24	19.4	25064	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037497.D
Acq On : 15 Jul 2025 10:57
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 15 18:10:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 10 02:20:59 2025
Response via : Initial Calibration



TIC: BN037497.D\data.ms

(70) Pentachlorophenol (C)

16.745min (-0.001) 31259.96 ng

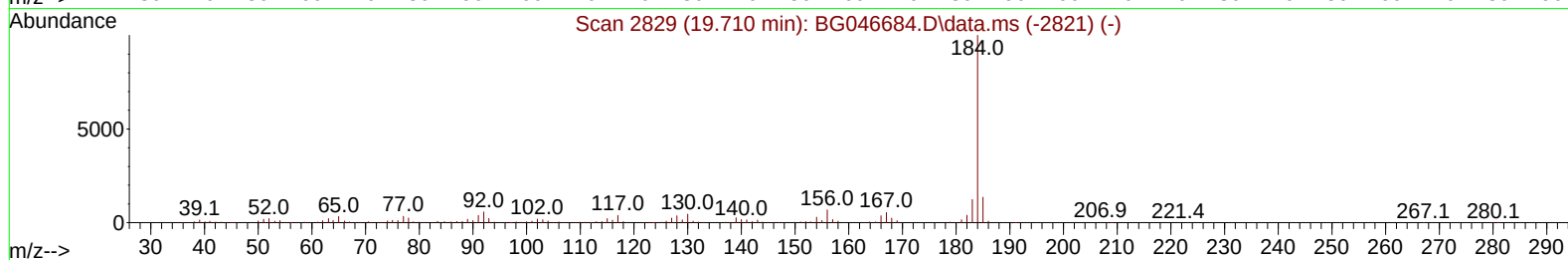
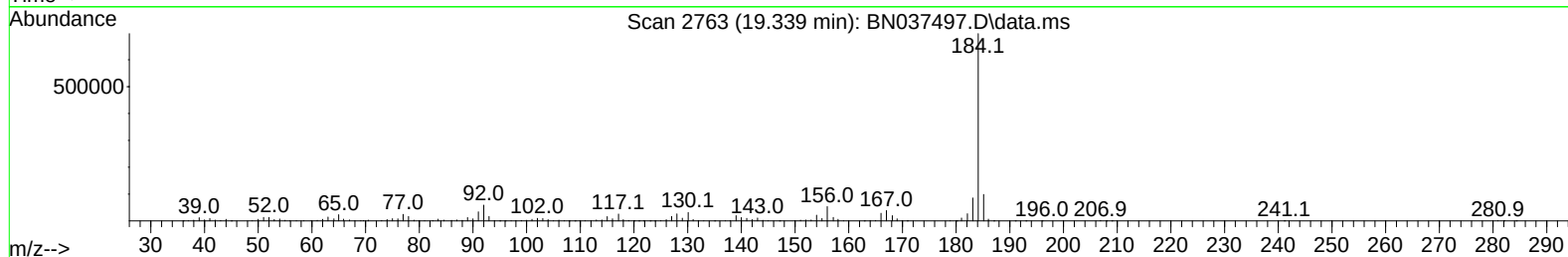
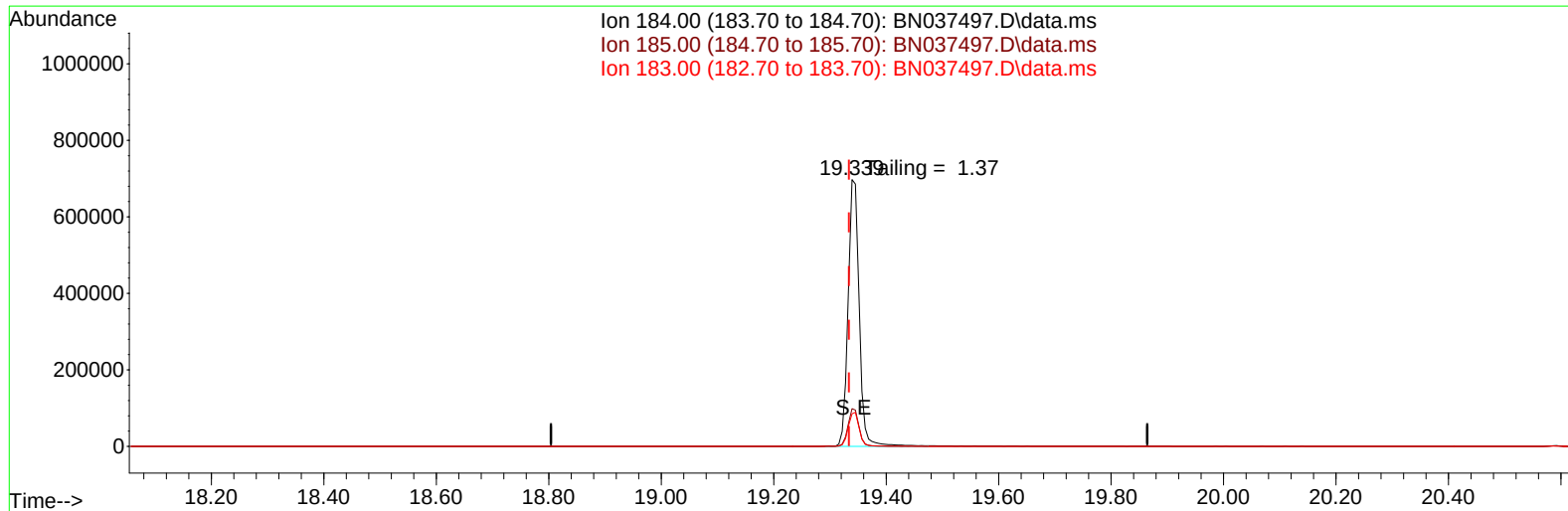
response 194539

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.06
264.00	61.60	61.25
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037497.D
Acq On : 15 Jul 2025 10:57
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 15 18:10:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 10 02:20:59 2025
Response via : Initial Calibration



TIC: BN037497.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 963155

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.14
183.00	13.20	12.27
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

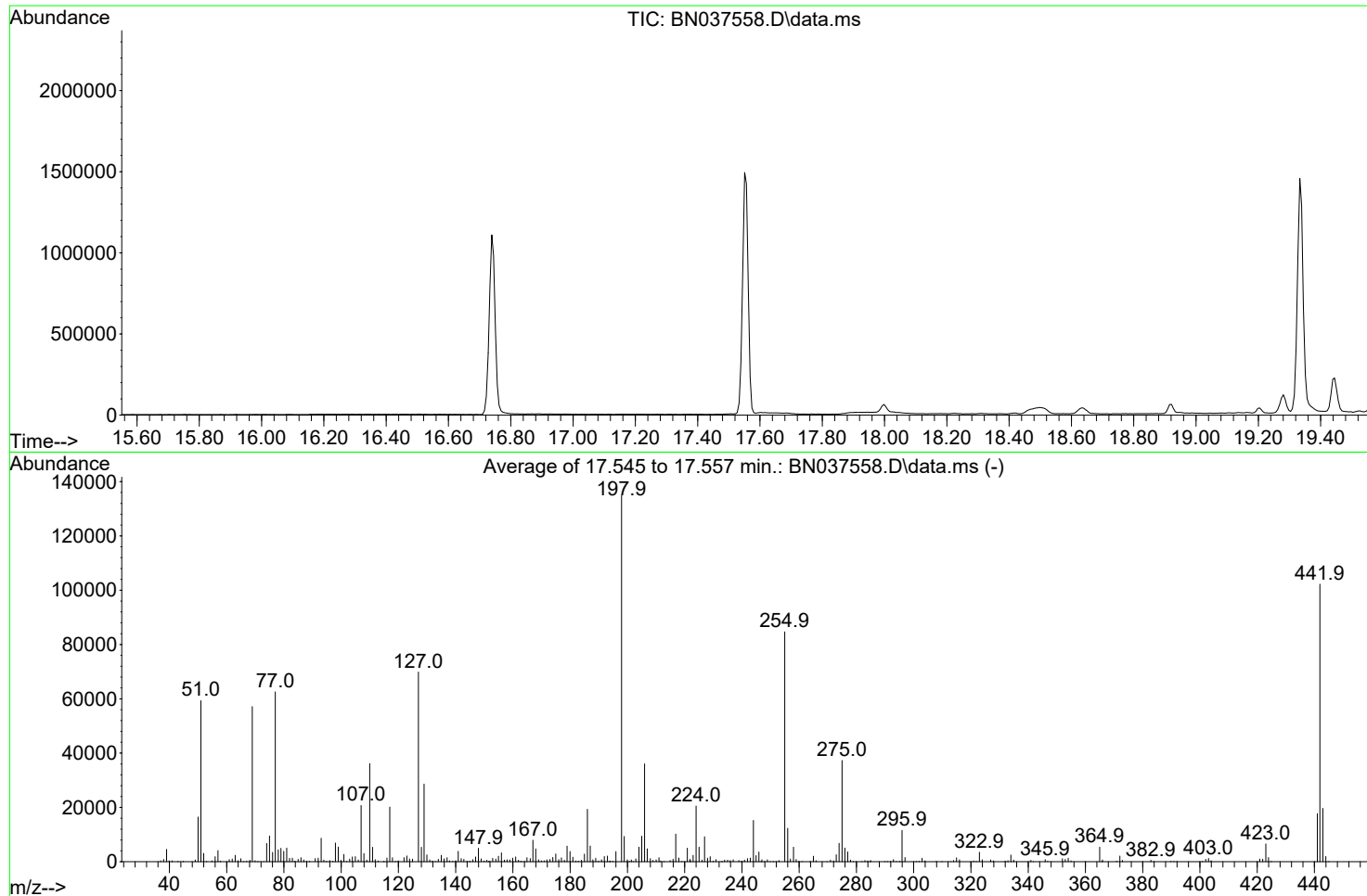
Date	Instrument Name	DFTPP Data File
7/15/2025	BNA_N	<u>BN037497.D</u>
Compound Name	Response	Retention Time
DDT	478094	20.592
DDD	7051	20.145
DDE	60	19.639
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7111	485205	1.47

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037558.D
Acq On : 05 Aug 2025 08:56
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-BN071525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jul 19 01:46:16 2025



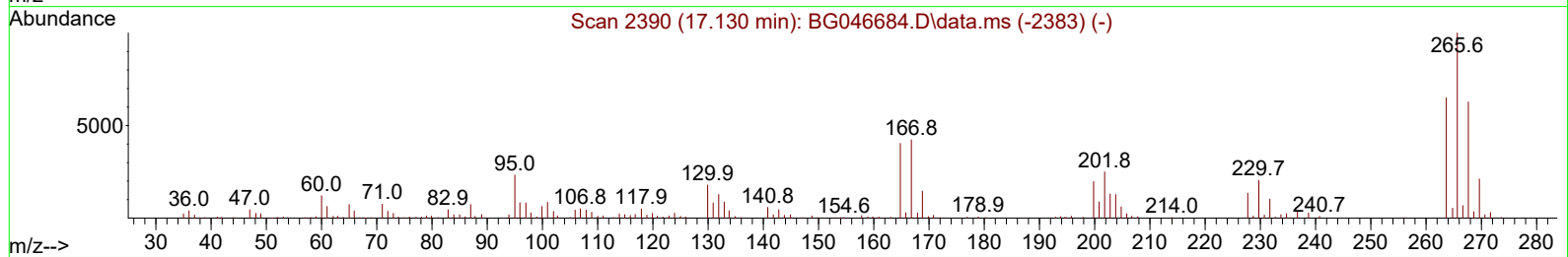
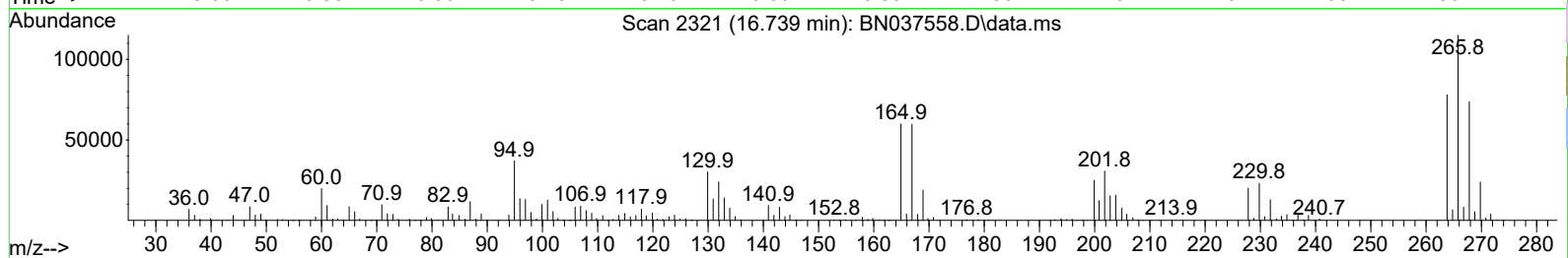
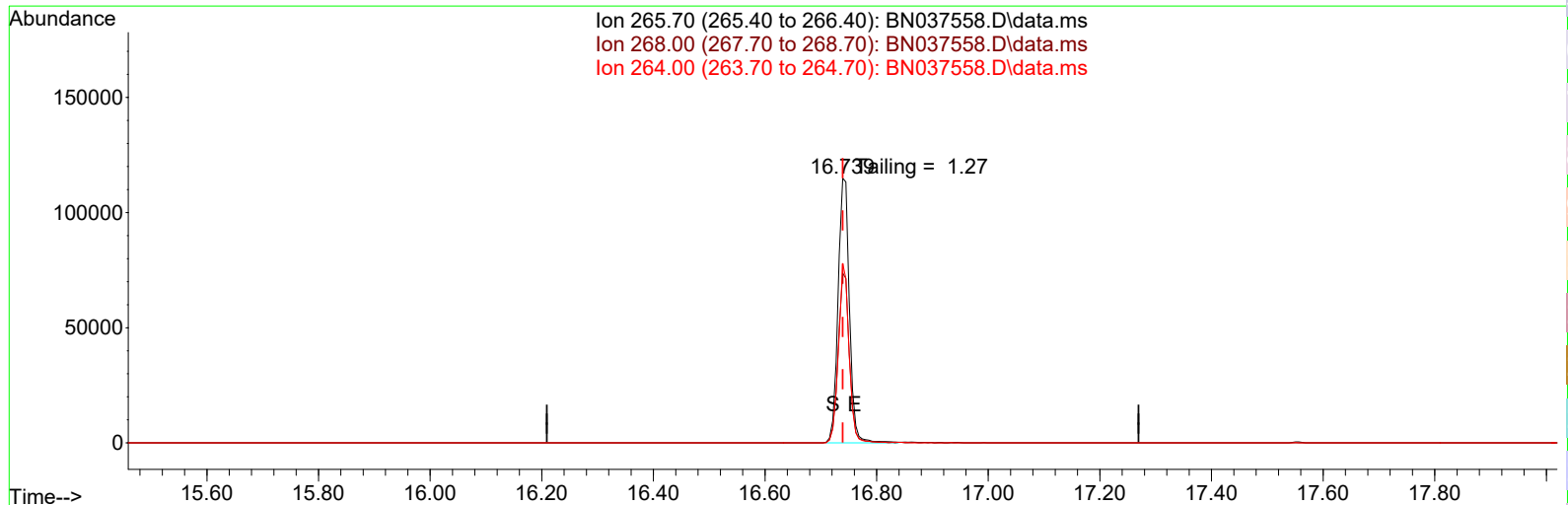
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2452

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.9	529	PASS
69	69	100	100	100.0	57147	PASS
70	69	0.00	2	0.6	370	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	134912	PASS
199	198	5	9	6.9	9307	PASS
365	198	1	100	4.0	5372	PASS
441	443	0.01	150	90.3	17710	PASS
442	442	100	100	100.0	102248	PASS
443	442	15	24	19.2	19611	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037558.D
Acq On : 05 Aug 2025 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 06 01:49:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037558.D\data.ms

(70) Pentachlorophenol (C)

16.739min (0.000) 277.06 ng

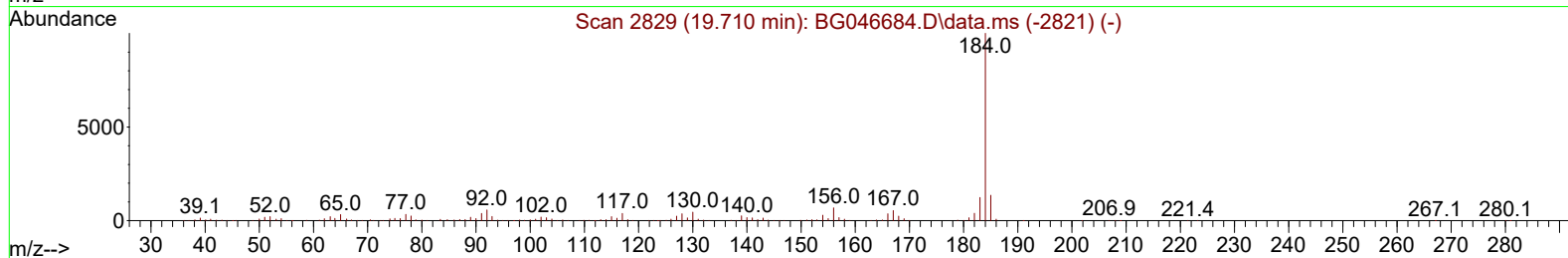
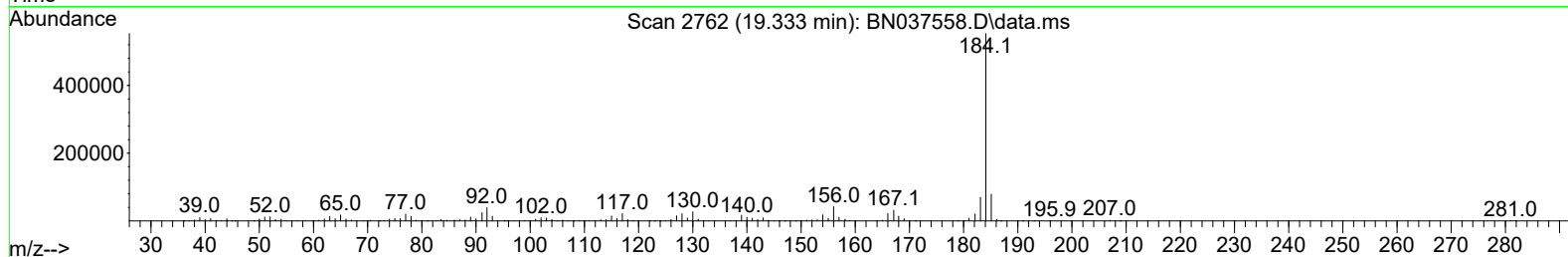
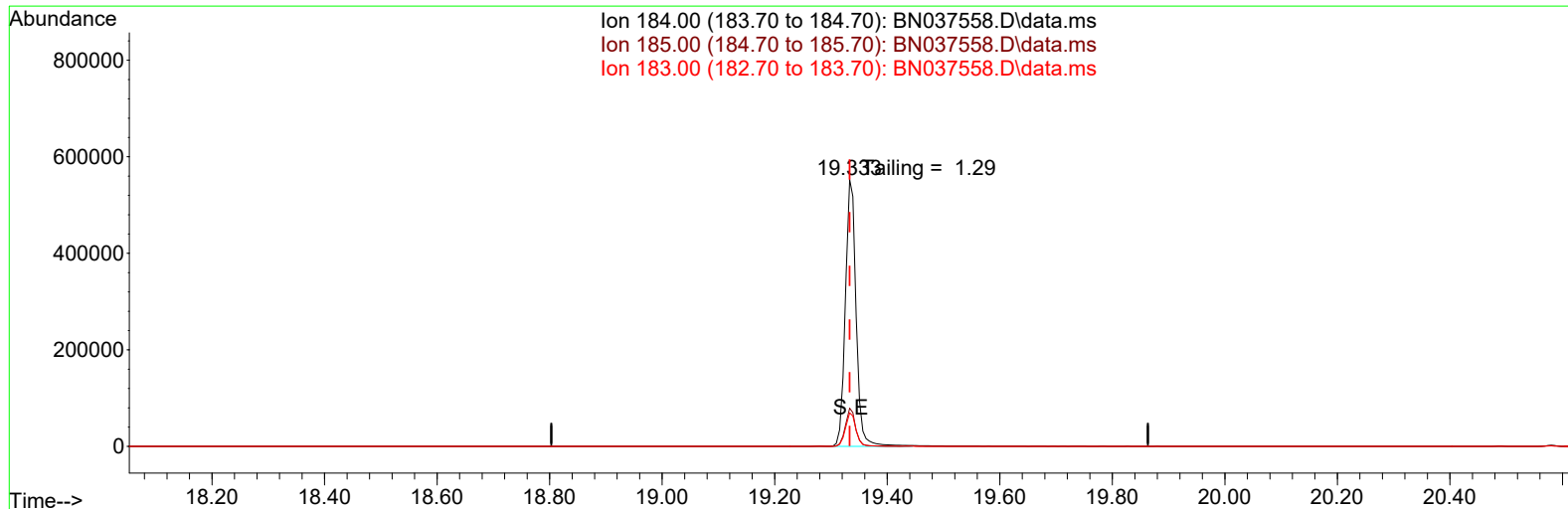
response 162965

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.12
264.00	61.60	67.79
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037558.D
Acq On : 05 Aug 2025 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 06 01:49:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037558.D\data.ms

(77) Benzidine

19.333min (0.000) 0.00 ng

response 738941

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.35
183.00	13.20	12.60
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/5/2025	BNA_N	<u>BN037558.D</u>
Compound Name	Response	Retention Time
DDT	445735	20.58
DDD	4329	20.192
DDE	60	19.633
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4389	450124	0.98

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	
Client Sample ID:	PB169094BL	SDG No.:	Q2746
Lab Sample ID:	PB169094BL	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
BN037560.D	1	08/04/25 08:40	08/05/25 10:11	PB169094

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	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	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		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2260	7.724				
1146-65-2	Naphthalene-d8	5530	10.498				
15067-26-2	Acenaphthene-d10	2600	14.345				
1517-22-2	Phenanthrene-d10	4750	17.086				
1719-03-5	Chrysene-d12	3480	21.277				
1520-96-3	Perylene-d12	3100	23.507				

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\BN080525\
Data File : BN037560.D
Acq On : 05 Aug 2025 10:11
Operator : RC/JU
Sample : PB169094BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169094BL

Quant Time: Aug 06 01:38:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2263	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5525	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	2603	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	4745	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3478	0.400	ng	0.00
35) Perylene-d12	23.507	264	3099	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1839	0.329	ng	0.00
5) Phenol-d6	6.886	99	1996	0.284	ng	0.00
8) Nitrobenzene-d5	8.854	82	1445	0.350	ng	-0.01
11) 2-Methylnaphthalene-d10	12.095	152	2480	0.313	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	264	0.206	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	5082	0.375	ng	0.00
27) Fluoranthene-d10	19.122	212	4065	0.323	ng	0.00
31) Terphenyl-d14	19.726	244	2893	0.387	ng	0.00

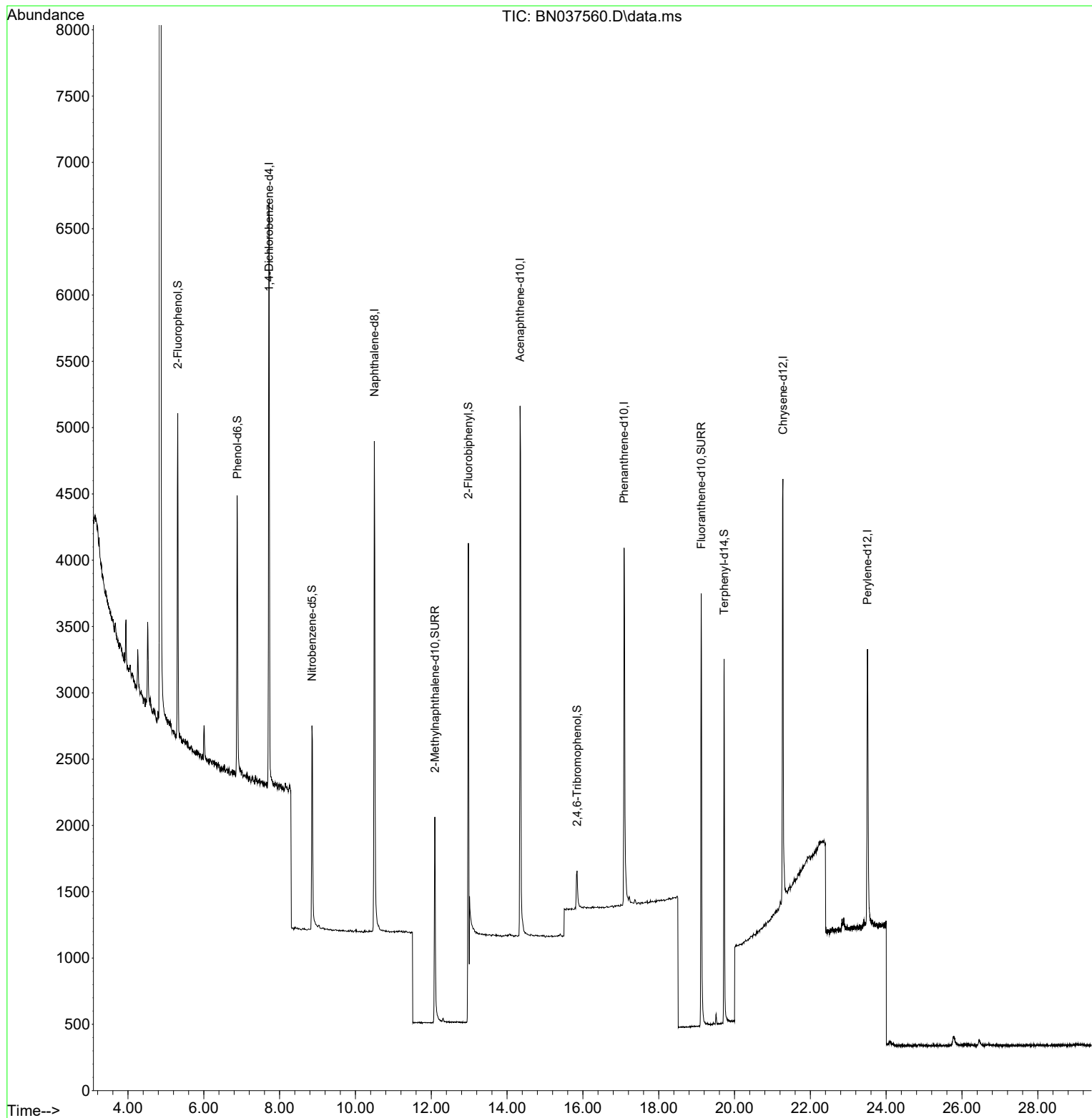
Target Compounds	Qvalue

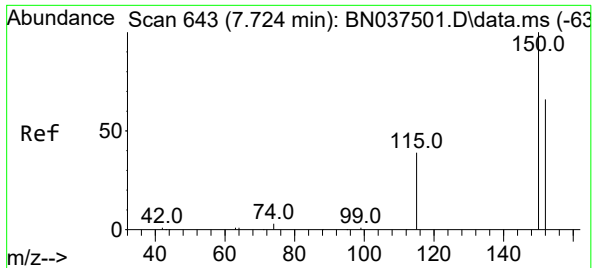
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037560.D
Acq On : 05 Aug 2025 10:11
Operator : RC/JU
Sample : PB169094BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169094BL

Quant Time: Aug 06 01:38:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

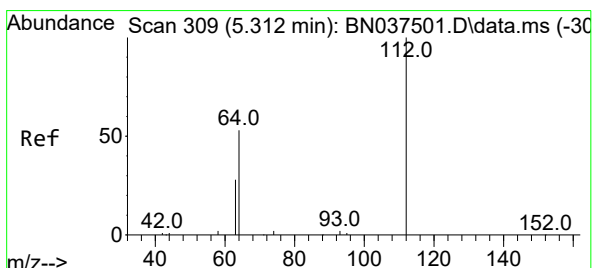
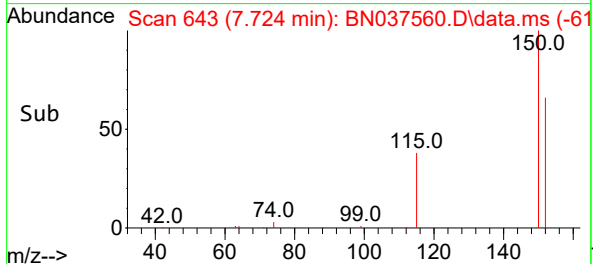
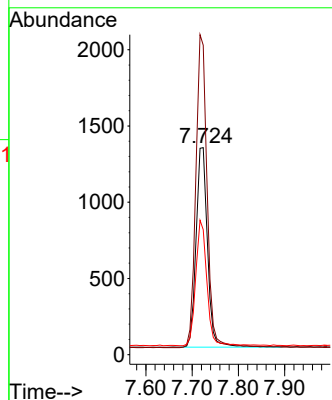
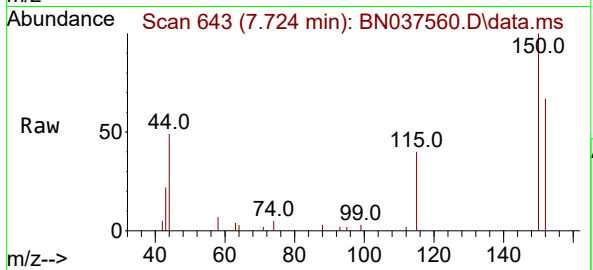




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 643
Delta R.T. 0.000 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

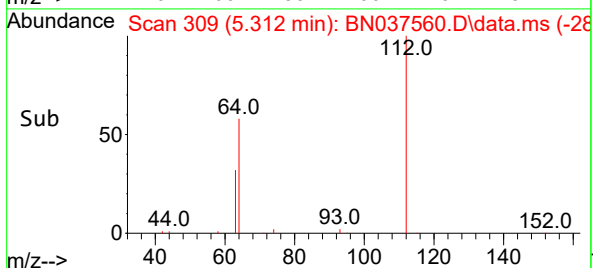
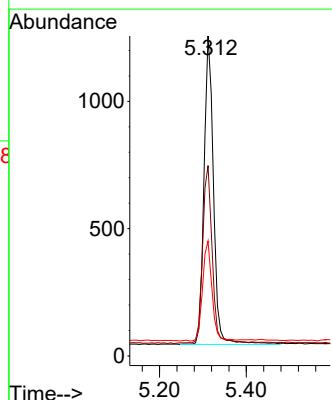
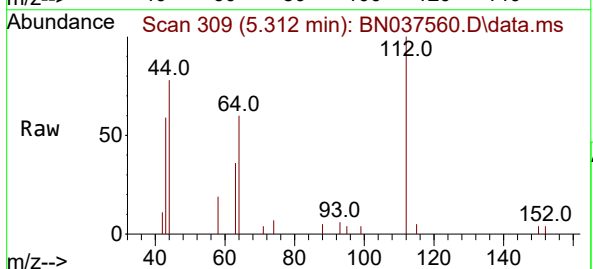
Instrument :
BNA_N
ClientSampleId :
PB169094BL

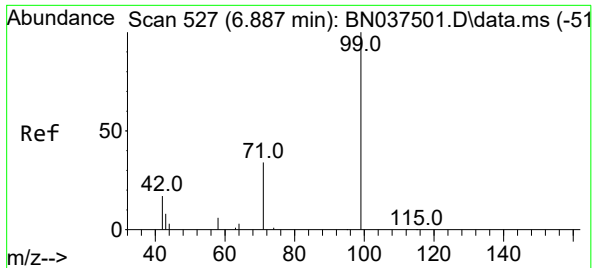
Tgt Ion:152 Resp: 2263
Ion Ratio Lower Upper
152 100
150 149.5 119.8 179.8
115 60.4 49.1 73.7



#4
2-Fluorophenol
Concen: 0.329 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

Tgt Ion:112 Resp: 1839
Ion Ratio Lower Upper
112 100
64 58.5 45.1 67.7
63 31.8 23.8 35.8

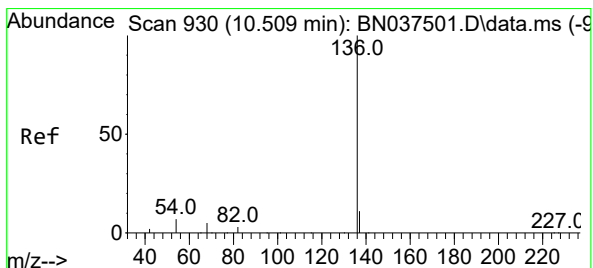
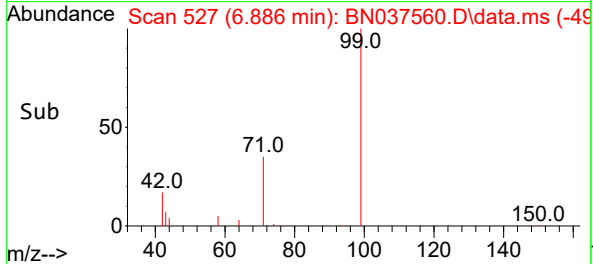
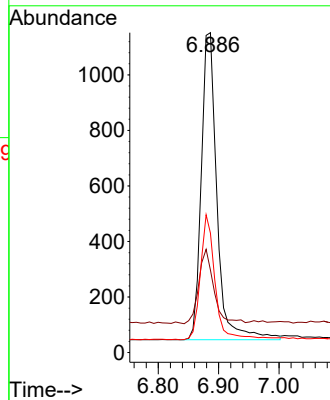
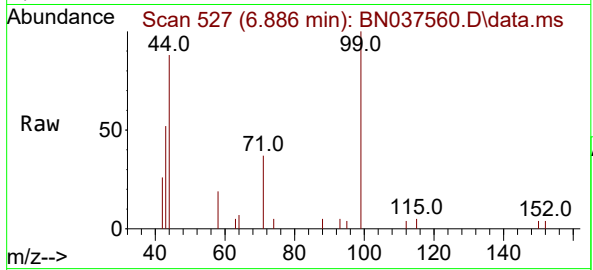




#5
Phenol-d6
Concen: 0.284 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

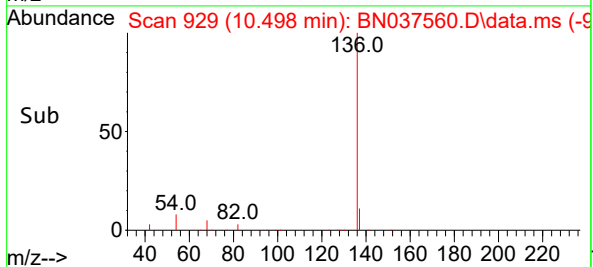
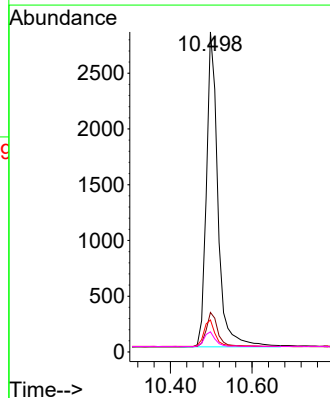
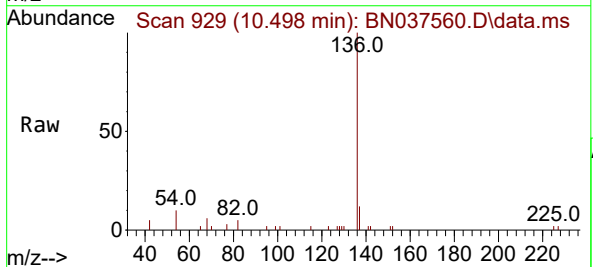
Instrument :
BNA_N
ClientSampleId :
PB169094BL

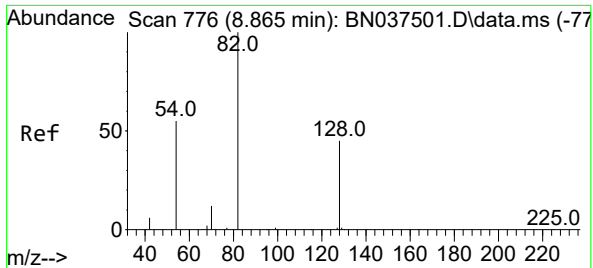
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.3	17.1	25.7
71	39.4	27.8	41.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.8	14.8
54	10.0	6.6	9.8#
68	6.3	5.0	7.6

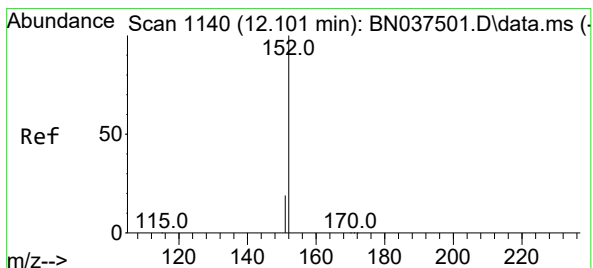
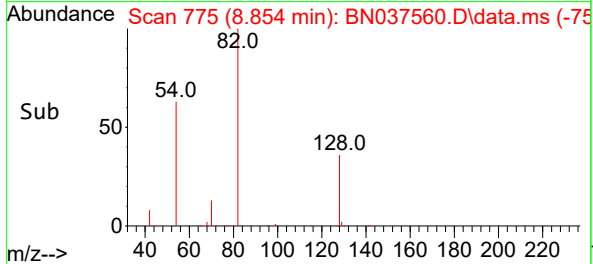
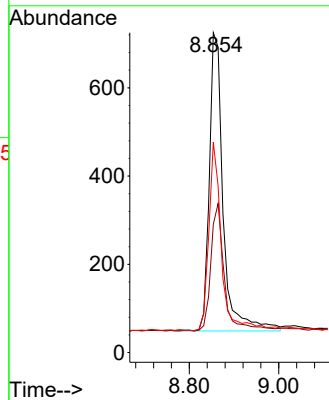
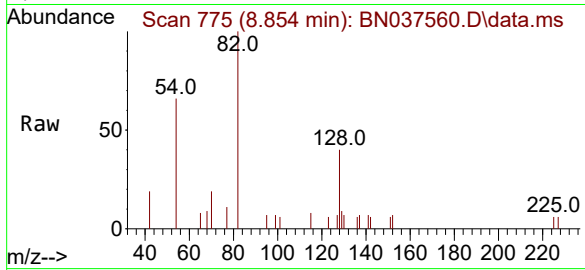




#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.854 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

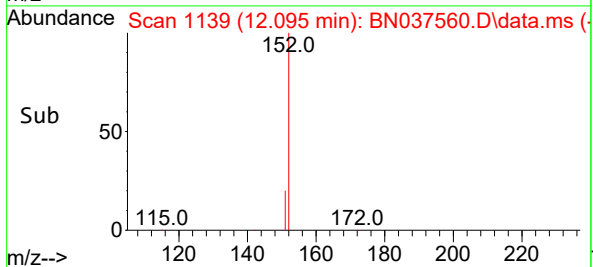
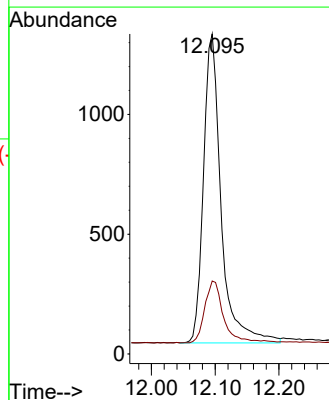
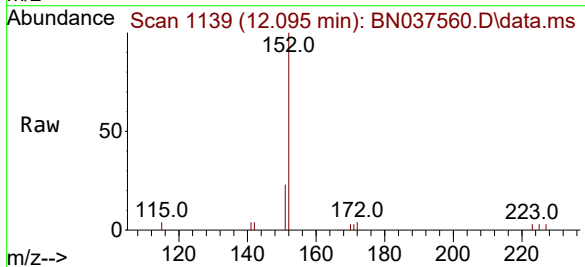
Instrument :
BNA_N
ClientSampleId :
PB169094BL

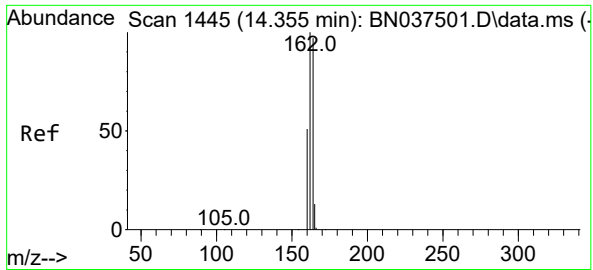
Tgt Ion: 82 Resp: 1445
Ion Ratio Lower Upper
82 100
128 40.1 37.5 56.3
54 65.8 45.3 67.9



#11
2-Methylnaphthalene-d10
Concen: 0.313 ng
RT: 12.095 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

Tgt Ion: 152 Resp: 2480
Ion Ratio Lower Upper
152 100
151 21.3 16.8 25.2

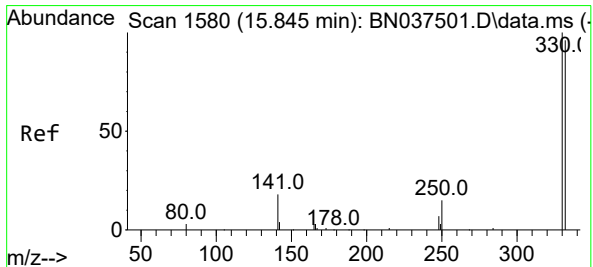
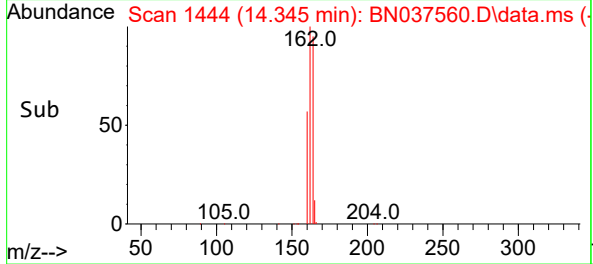
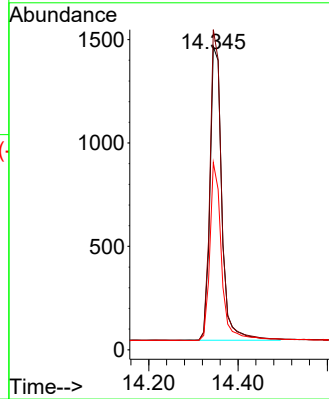
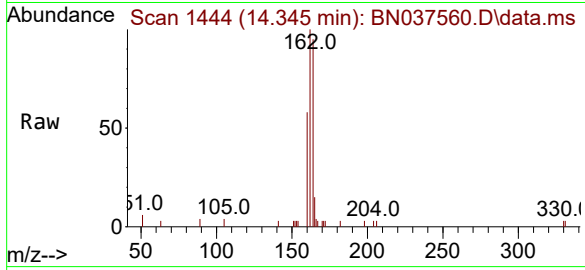




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.011 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

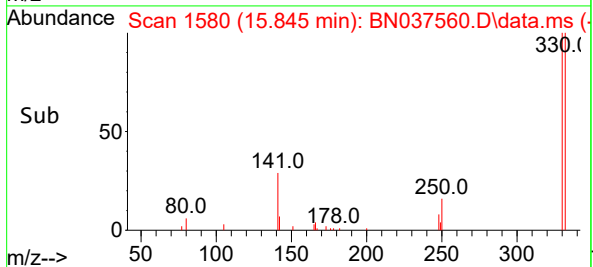
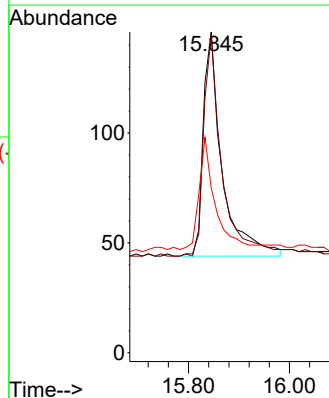
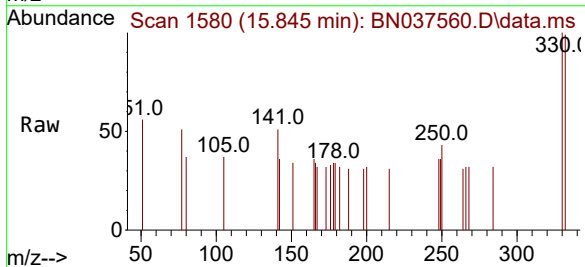
Instrument :
BNA_N
ClientSampleId :
PB169094BL

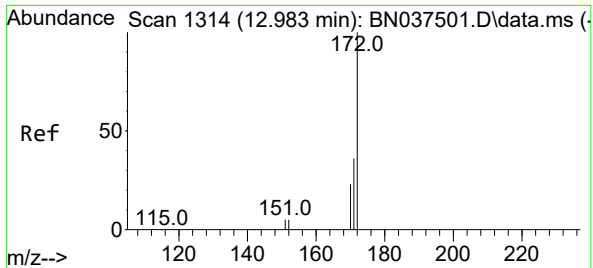
Tgt Ion:	164	Resp:	2603
Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.0	123.0
160	61.7	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.206 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

Tgt Ion:	330	Resp:	264
Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.1	114.1
141	44.3	33.4	50.0

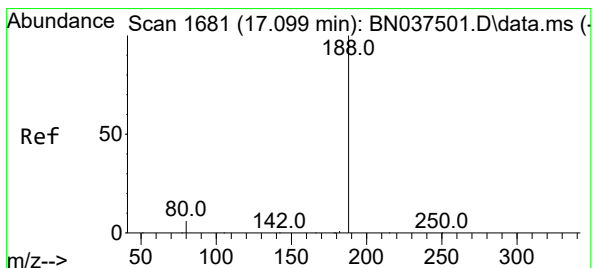
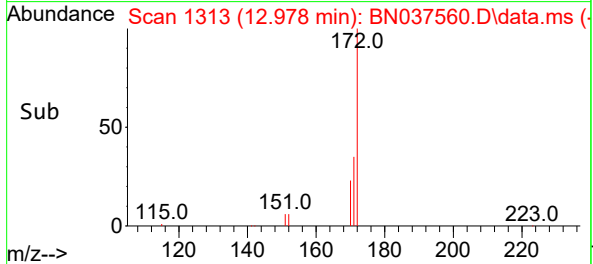
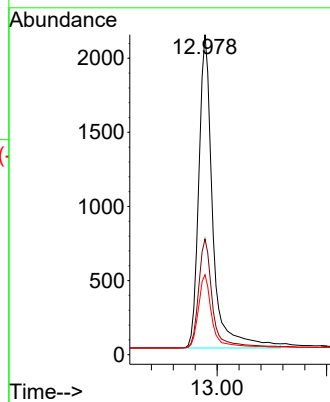
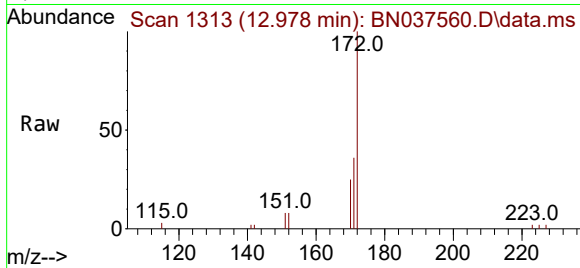




#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

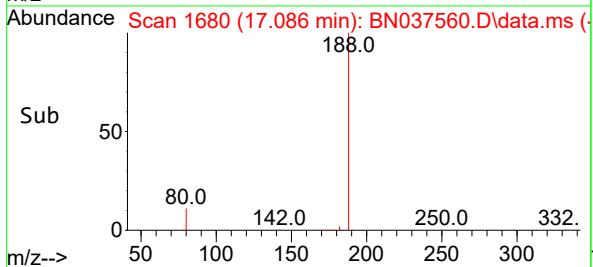
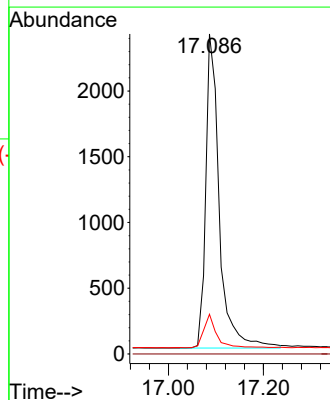
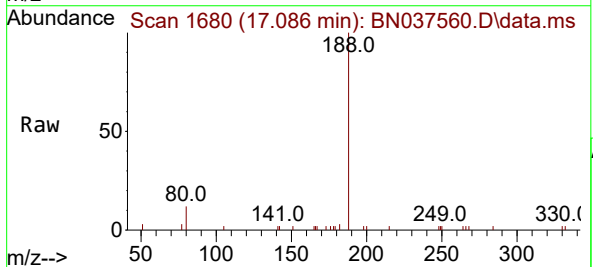
Instrument :
BNA_N
ClientSampleId :
PB169094BL

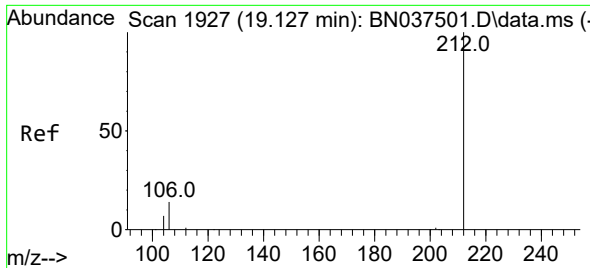
Tgt Ion:	172	Resp:	5082
Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.4	44.2
170	25.0	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

Tgt Ion:	188	Resp:	4745
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.4	6.0	9.0#

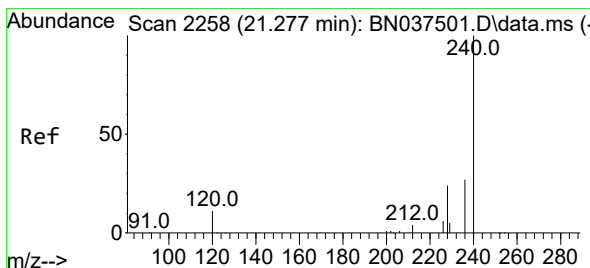
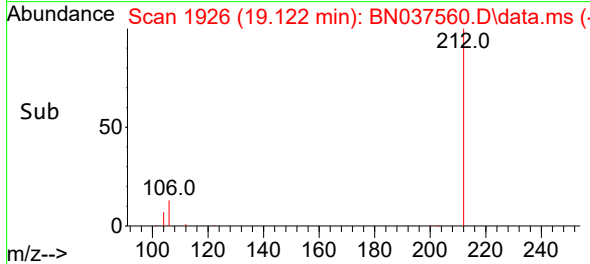
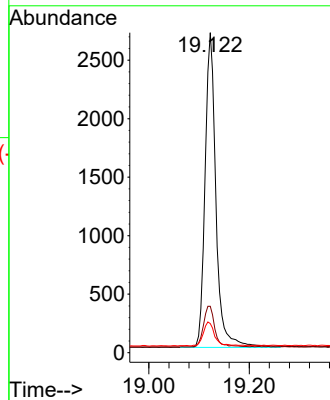
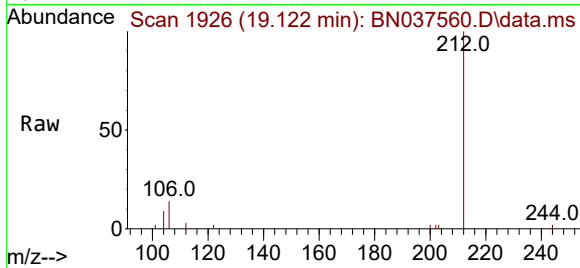




#27
Fluoranthene-d10
Concen: 0.323 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

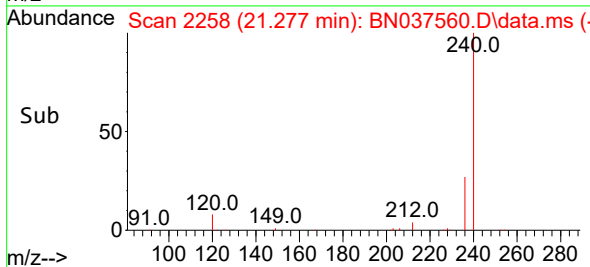
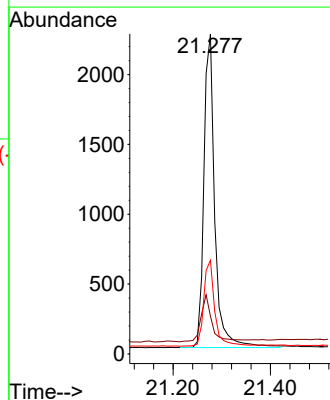
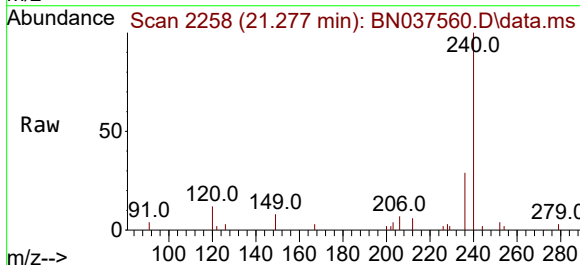
Instrument :
BNA_N
ClientSampleId :
PB169094BL

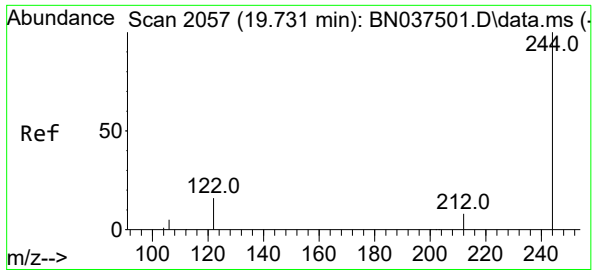
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.2	12.2	18.4
104	7.7	6.7	10.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.000 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

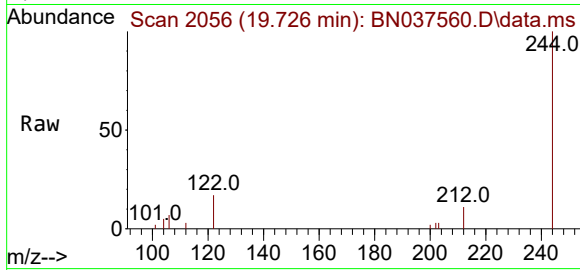
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.8	10.7	16.1
236	29.2	22.6	33.8



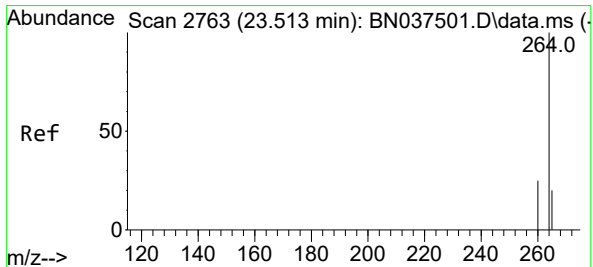
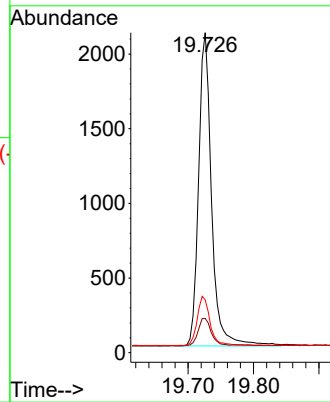
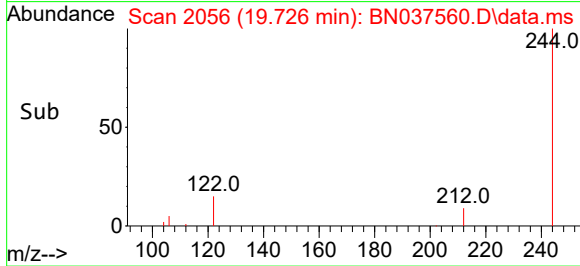


#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

Instrument :
BNA_N
ClientSampleId :
PB169094BL

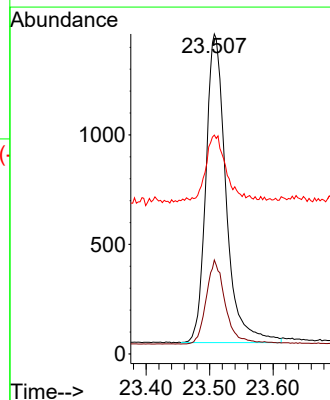
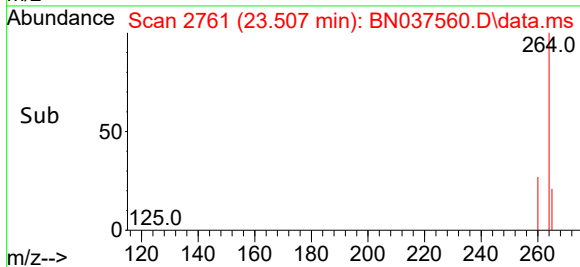
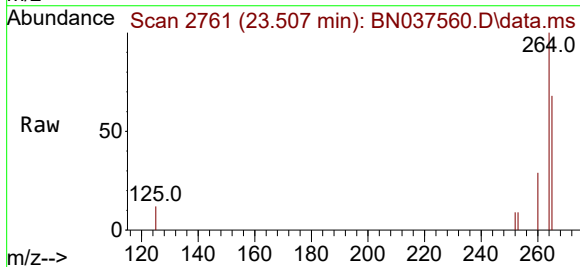


Tgt Ion:244 Resp: 2893
Ion Ratio Lower Upper
244 100
212 10.7 7.4 11.2
122 16.5 13.6 20.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.507 min Scan# 2761
Delta R.T. -0.006 min
Lab File: BN037560.D
Acq: 05 Aug 2025 10:11

Tgt Ion:264 Resp: 3099
Ion Ratio Lower Upper
264 100
260 29.4 21.2 31.8
265 68.4 40.4 60.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	
Client Sample ID:	PB169094BS	SDG No.:	Q2746
Lab Sample ID:	PB169094BS	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
BN037566.D	1	08/04/25 08:40	08/05/25 13:47	PB169094

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 - 150		77%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1590	7.717				
1146-65-2	Naphthalene-d8	3860	10.498				
15067-26-2	Acenaphthene-d10	1770	14.345				
1517-22-2	Phenanthrene-d10	3210	17.087				
1719-03-5	Chrysene-d12	2400	21.268				
1520-96-3	Perylene-d12	2050	23.508				

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\BN080525\
 Data File : BN037566.D
 Acq On : 05 Aug 2025 13:47
 Operator : RC/JU
 Sample : PB169094BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169094BS

Quant Time: Aug 06 01:39:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

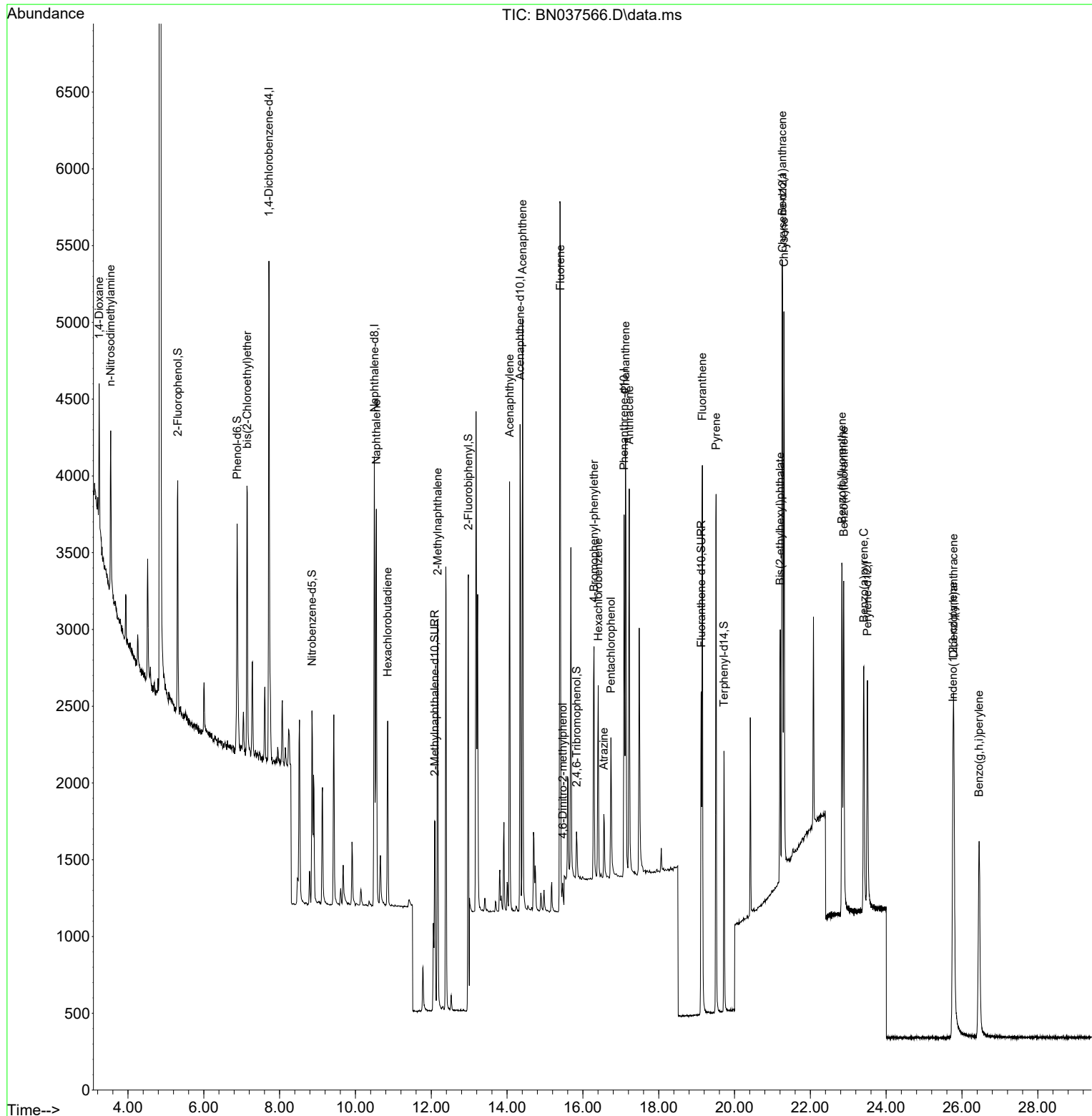
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1587	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3862	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	1765	0.400	ng	-0.01
19) Phenanthrene-d10	17.087	188	3214	0.400	ng	#-0.01
29) Chrysene-d12	21.268	240	2404	0.400	ng	# 0.00
35) Perylene-d12	23.508	264	2051	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1200	0.306	ng	0.00
5) Phenol-d6	6.879	99	1356	0.275	ng	0.00
8) Nitrobenzene-d5	8.854	82	1001	0.347	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1882	0.340	ng	-0.01
14) 2,4,6-Tribromophenol	15.833	330	195	0.225	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3760	0.410	ng	0.00
27) Fluoranthene-d10	19.122	212	2613	0.307	ng	0.00
31) Terphenyl-d14	19.722	244	1857	0.359	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	468	0.307	ng	# 77
3) n-Nitrosodimethylamine	3.543	42	731	0.381	ng	83
6) bis(2-Chloroethyl)ether	7.147	93	1320	0.322	ng	96
9) Naphthalene	10.552	128	3441	0.334	ng	97
10) Hexachlorobutadiene	10.851	225	964	0.423	ng	# 99
12) 2-Methylnaphthalene	12.167	142	1892	0.279	ng	97
16) Acenaphthylene	14.067	152	2987	0.378	ng	99
17) Acenaphthene	14.409	154	1807	0.336	ng	96
18) Fluorene	15.403	166	2272	0.328	ng	97
20) 4,6-Dinitro-2-methylph...	15.467	198	133	0.396	ng	98
21) 4-Bromophenyl-phenylether	16.292	248	678	0.329	ng	# 87
22) Hexachlorobenzene	16.404	284	998	0.375	ng	93
23) Atrazine	16.553	200	435	0.303	ng	# 85
24) Pentachlorophenol	16.739	266	507	0.425	ng	99
25) Phenanthrene	17.124	178	3259	0.338	ng	99
26) Anthracene	17.223	178	2908	0.331	ng	99
28) Fluoranthene	19.150	202	3298	0.297	ng	97
30) Pyrene	19.513	202	3228	0.333	ng	100
32) Benzo(a)anthracene	21.259	228	2903	0.345	ng	98
33) Chrysene	21.304	228	3135	0.358	ng	97
34) Bis(2-ethylhexyl)phtha...	21.205	149	1102	0.291	ng	98
36) Indeno(1,2,3-cd)pyrene	25.762	276	3100	0.363	ng	97
37) Benzo(b)fluoranthene	22.835	252	2895	0.372	ng	94
38) Benzo(k)fluoranthene	22.879	252	2995	0.373	ng	95
39) Benzo(a)pyrene	23.408	252	2515	0.387	ng	92
40) Dibenzo(a,h)anthracene	25.779	278	2418	0.350	ng	93
41) Benzo(g,h,i)perylene	26.452	276	2798	0.391	ng	97

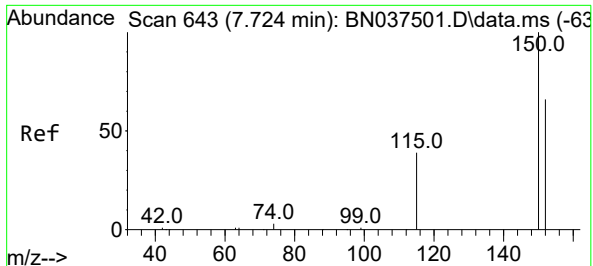
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037566.D
Acq On : 05 Aug 2025 13:47
Operator : RC/JU
Sample : PB169094BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169094BS

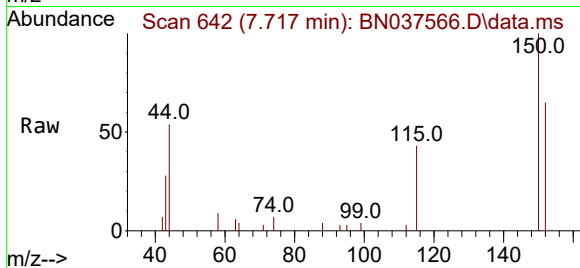
Quant Time: Aug 06 01:39:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration



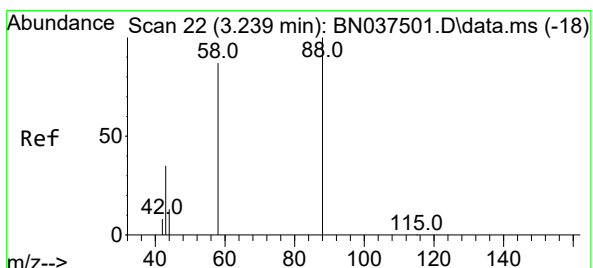
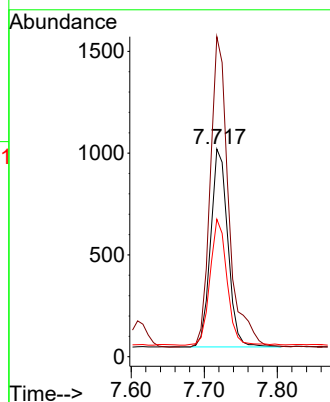
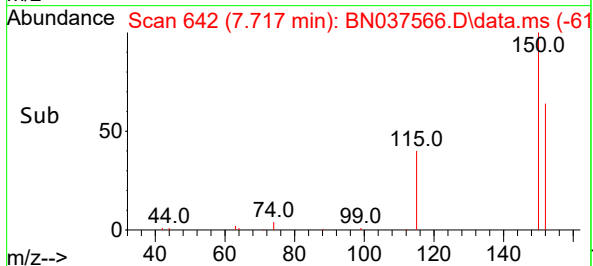


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.717 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN037566.D
 Acq: 05 Aug 2025 13:47

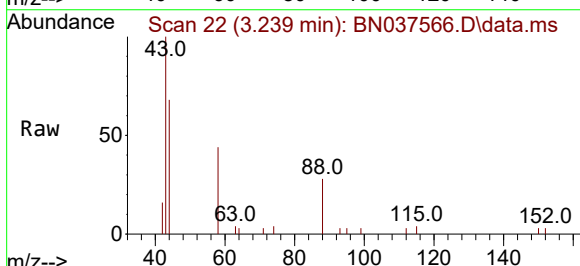
Instrument :
 BNA_N
 ClientSampleId :
 PB169094BS



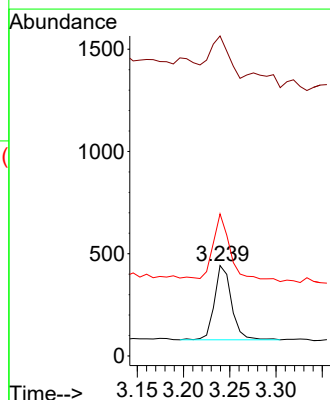
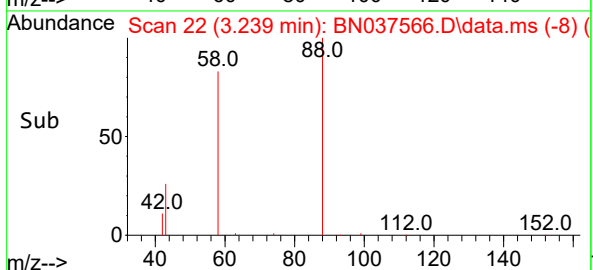
Tgt Ion:152 Resp: 1587
 Ion Ratio Lower Upper
 152 100
 150 154.1 119.8 179.8
 115 66.2 49.1 73.7

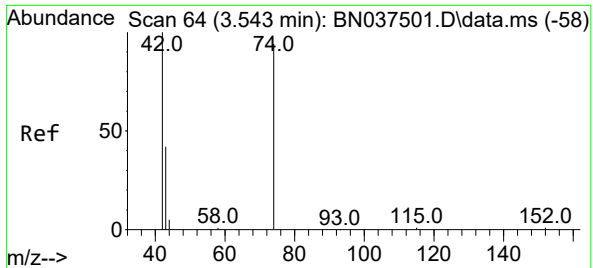


#2
 1,4-Dioxane
 Concen: 0.307 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN037566.D
 Acq: 05 Aug 2025 13:47



Tgt Ion: 88 Resp: 468
 Ion Ratio Lower Upper
 88 100
 43 51.7 27.5 41.3#
 58 95.3 62.7 94.1#

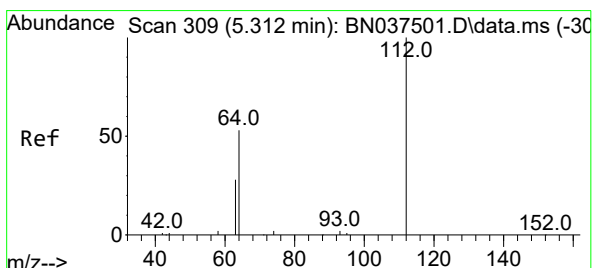
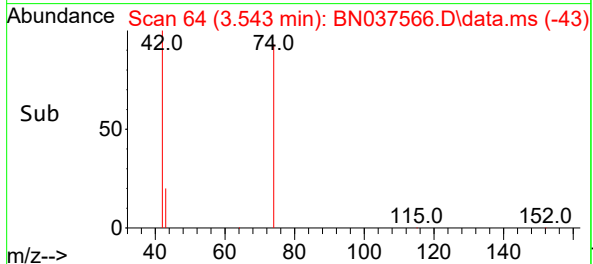
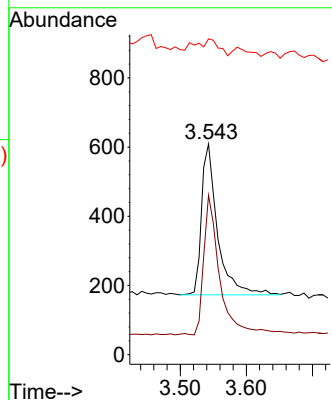
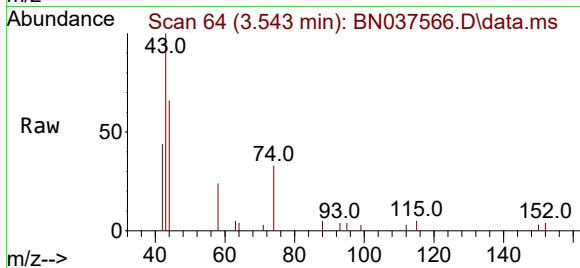




#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

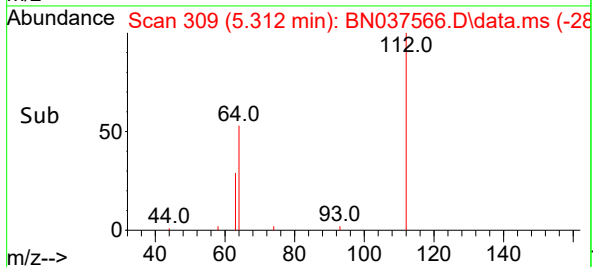
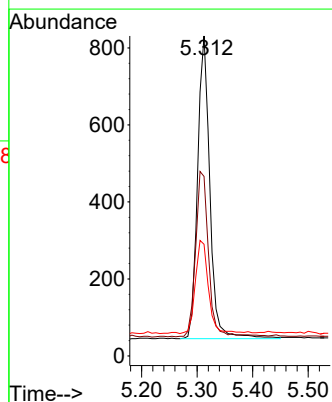
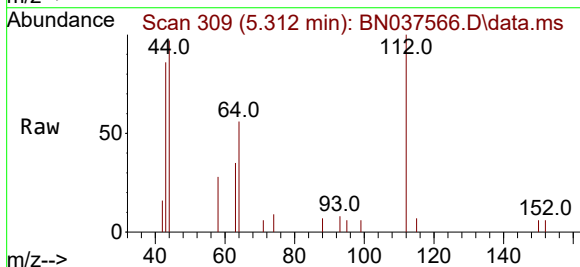
Instrument :
BNA_N
ClientSampleId :
PB169094BS

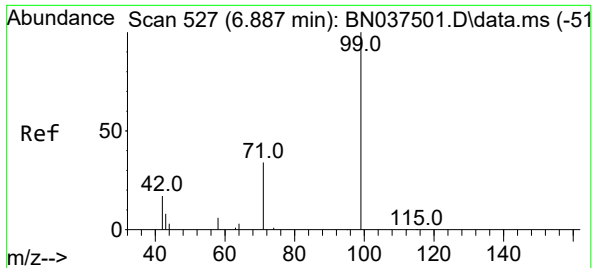
Tgt Ion: 42 Resp: 731
Ion Ratio Lower Upper
42 100
74 93.8 91.8 137.6
44 15.9 15.0 22.6



#4
2-Fluorophenol
Concen: 0.306 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion: 112 Resp: 1200
Ion Ratio Lower Upper
112 100
64 56.6 45.1 67.7
63 33.1 23.8 35.8

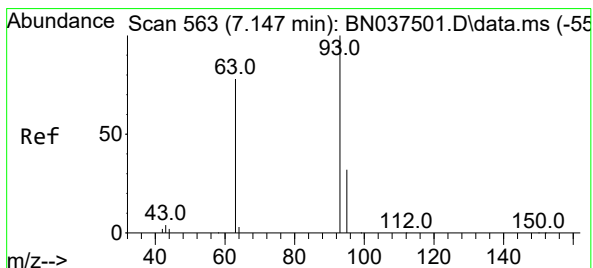
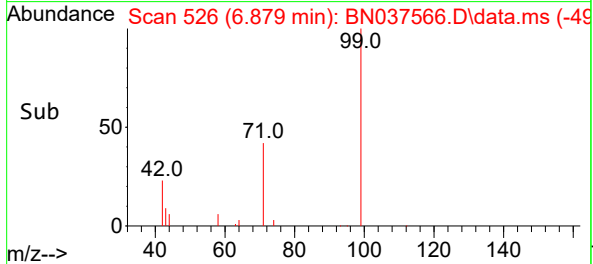
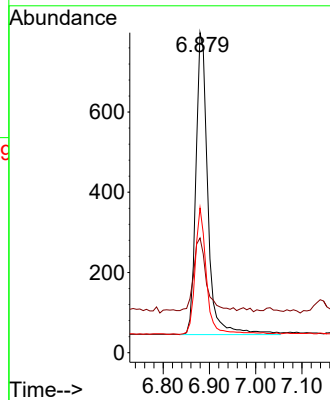
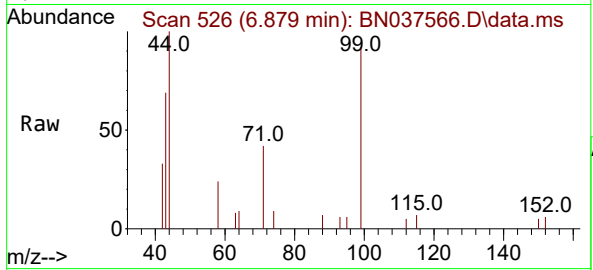




#5
Phenol-d6
Concen: 0.275 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

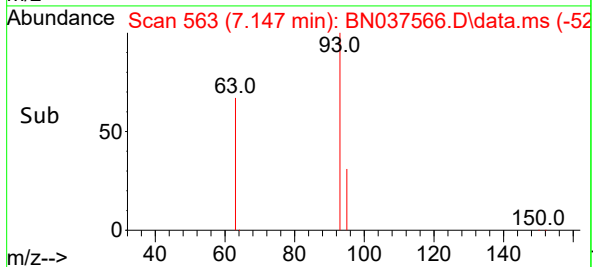
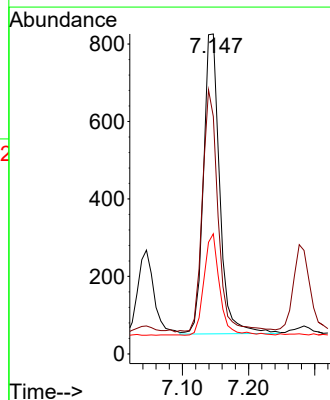
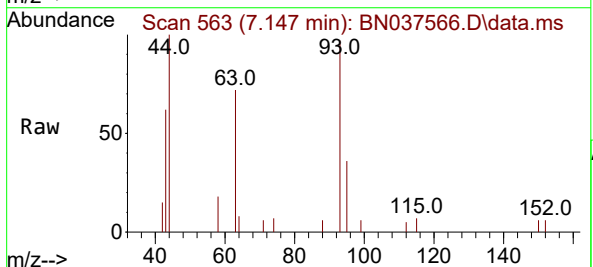
Instrument :
BNA_N
ClientSampleId :
PB169094BS

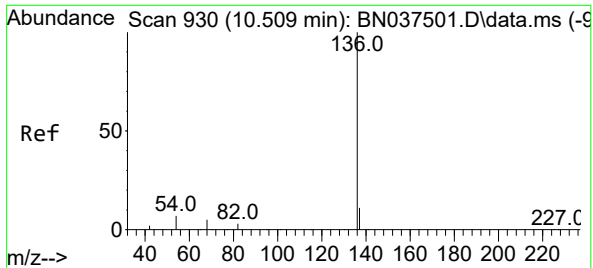
Tgt Ion: 99 Resp: 1356
Ion Ratio Lower Upper
99 100
42 25.2 17.1 25.7
71 39.8 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.322 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion: 93 Resp: 1320
Ion Ratio Lower Upper
93 100
63 76.8 58.2 87.4
95 32.7 25.3 37.9

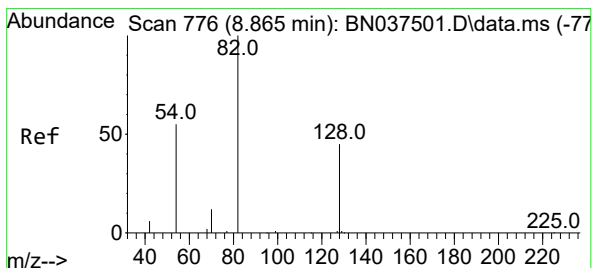
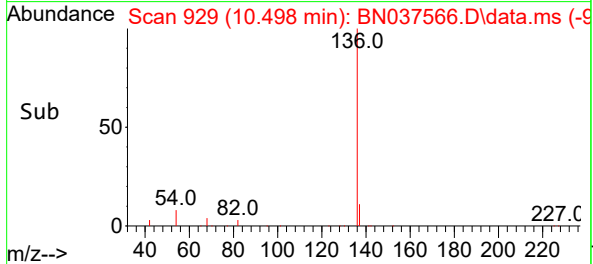
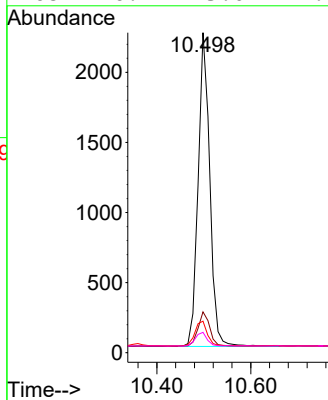
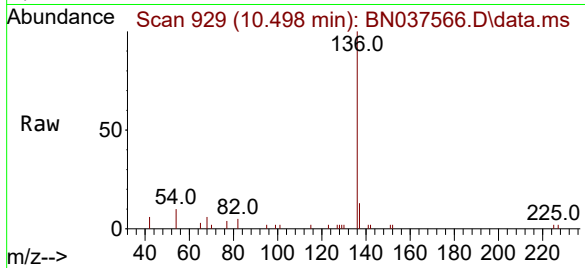




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

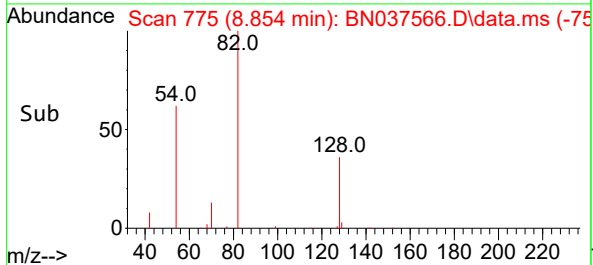
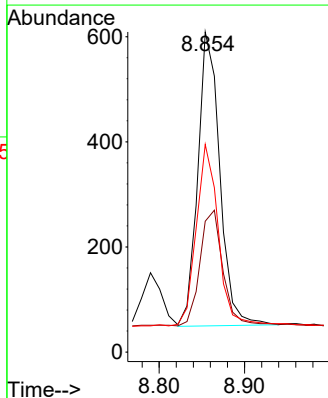
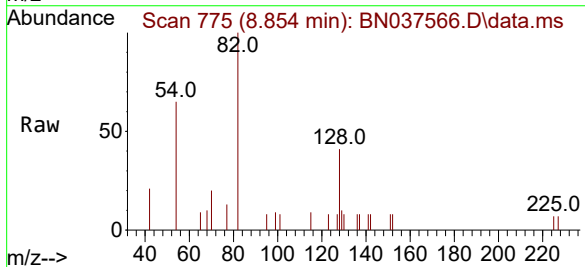
Instrument :
BNA_N
ClientSampleId :
PB169094BS

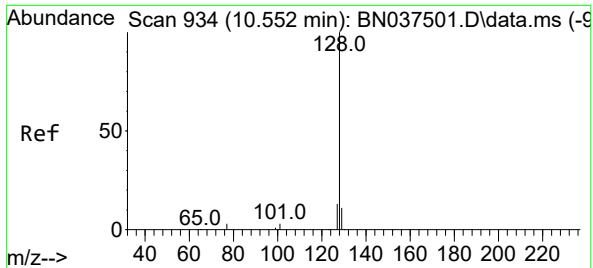
Tgt Ion:	136	Resp:	3862
Ion	Ratio	Lower	Upper
136	100		
137	12.8	9.8	14.8
54	9.9	6.6	9.8#
68	6.4	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.347 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.011 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:	82	Resp:	1001
Ion	Ratio	Lower	Upper
82	100		
128	40.9	37.5	56.3
54	64.9	45.3	67.9

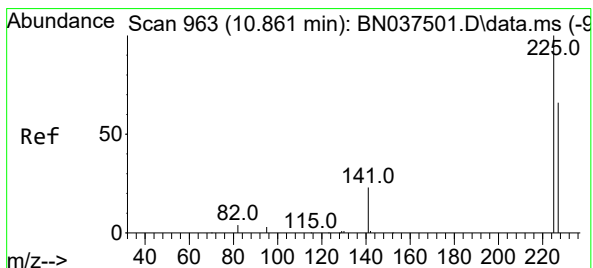
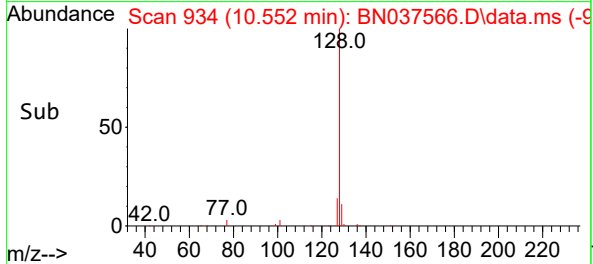
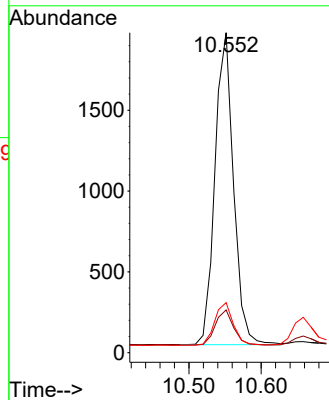
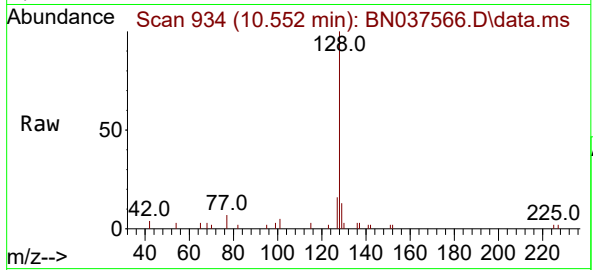




#9
Naphthalene
Concen: 0.334 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

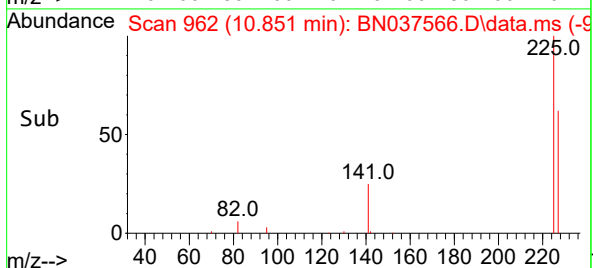
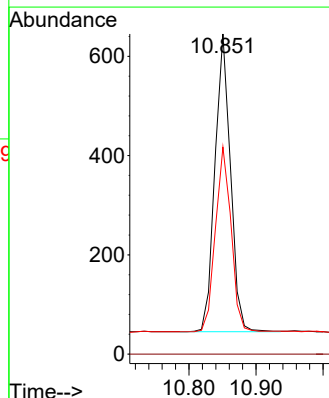
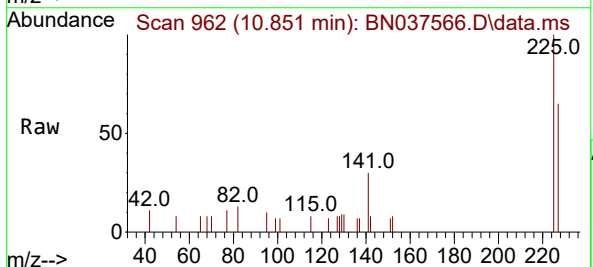
Instrument :
BNA_N
ClientSampleId :
PB169094BS

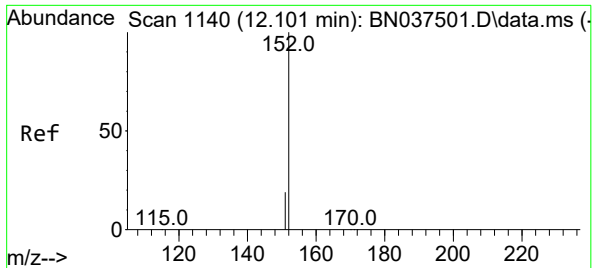
Tgt Ion:	128	Resp:	3441
Ion	Ratio	Lower	Upper
128	100		
129	13.4	9.7	14.5
127	15.7	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.851 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:	225	Resp:	964
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	51.0	76.4

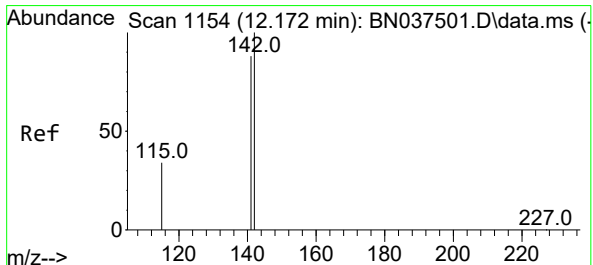
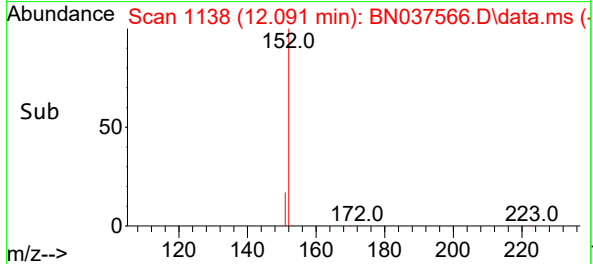
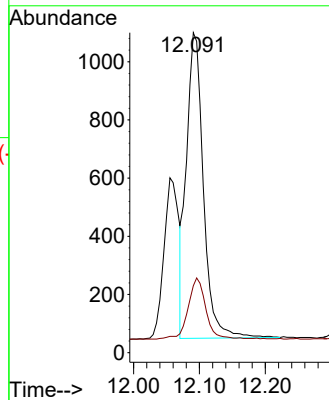
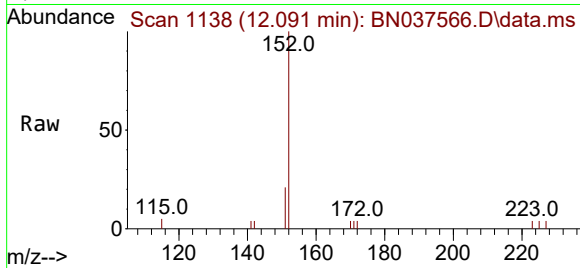




#11
2-Methylnaphthalene-d10
Concen: 0.340 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.010 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

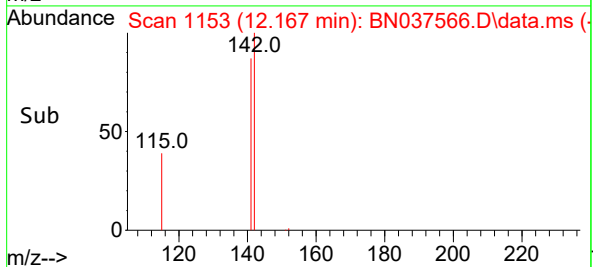
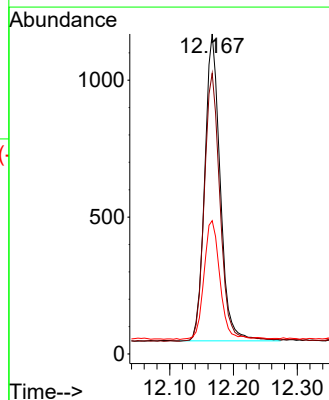
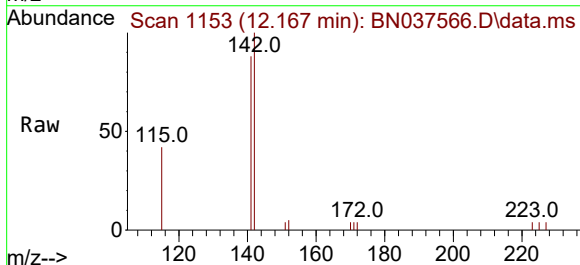
Instrument :
BNA_N
ClientSampleId :
PB169094BS

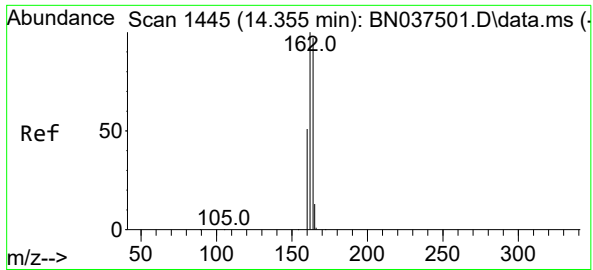
Tgt Ion:152 Resp: 1882
Ion Ratio Lower Upper
152 100
151 21.3 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.279 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:142 Resp: 1892
Ion Ratio Lower Upper
142 100
141 87.7 71.0 106.4
115 41.7 29.0 43.4

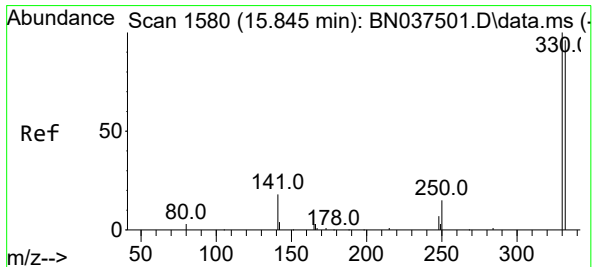
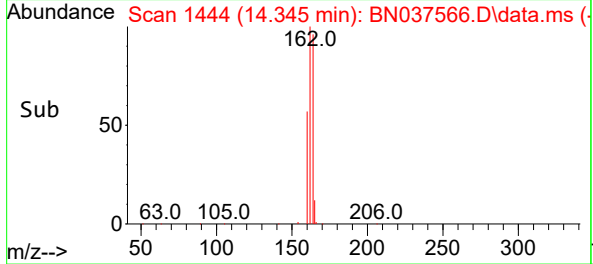
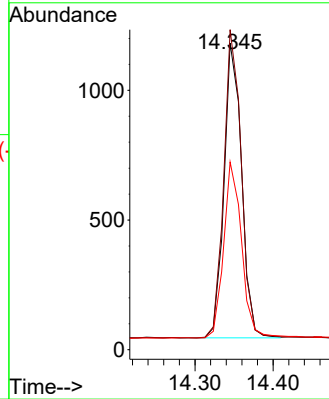
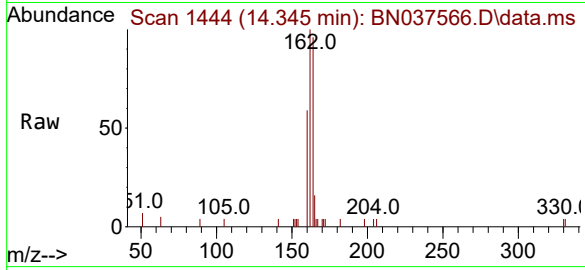




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

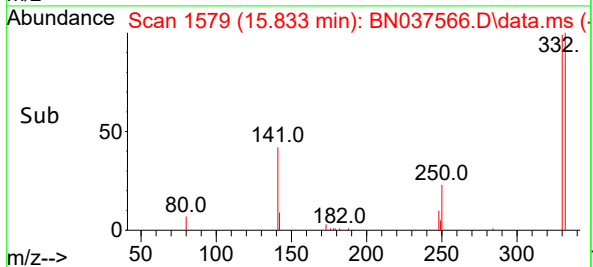
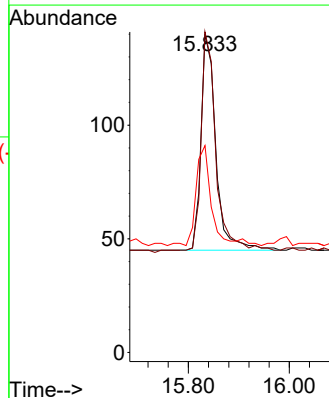
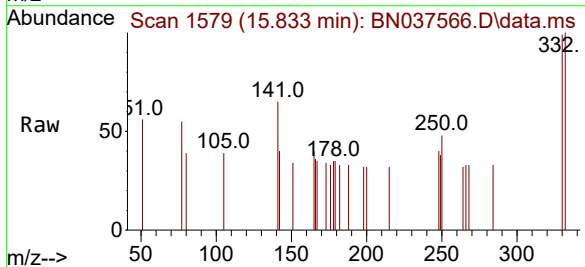
Instrument :
BNA_N
ClientSampleId :
PB169094BS

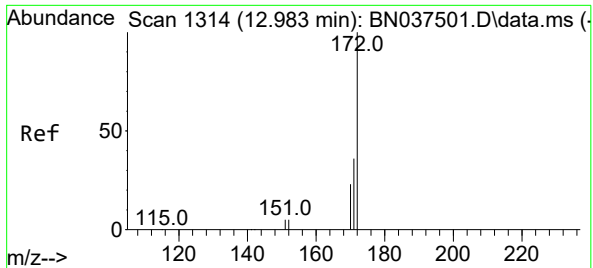
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.0	123.0
160	61.3	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.225 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.0	76.1	114.1
141	48.7	33.4	50.0

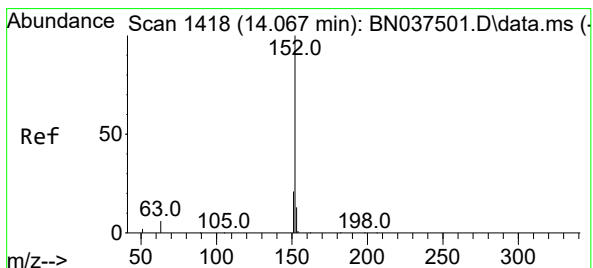
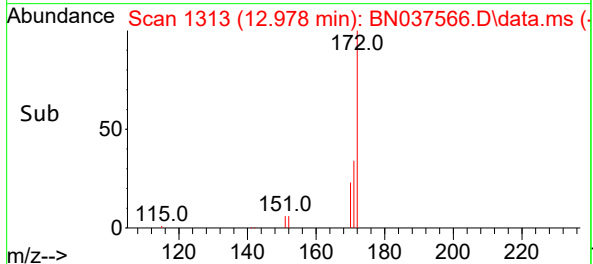
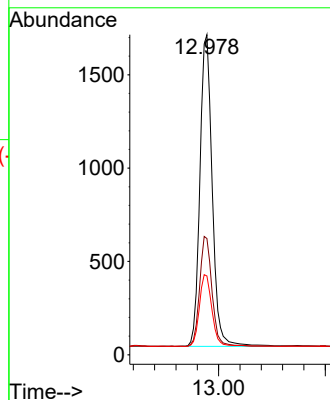
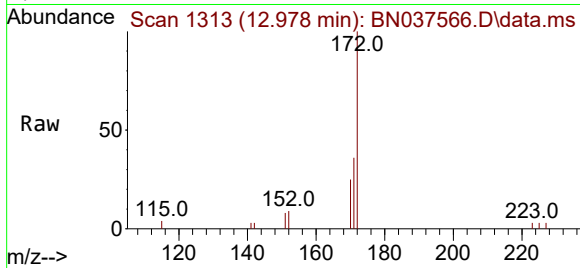




#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

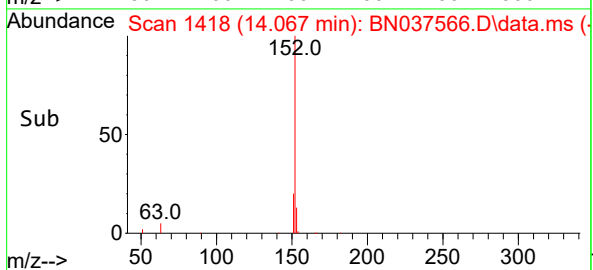
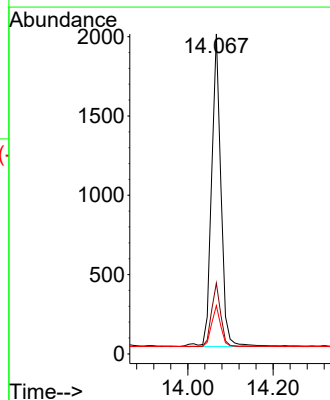
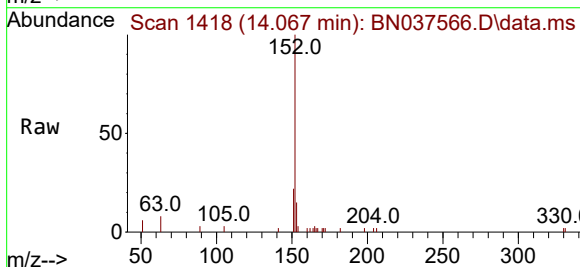
Instrument :
BNA_N
ClientSampleId :
PB169094BS

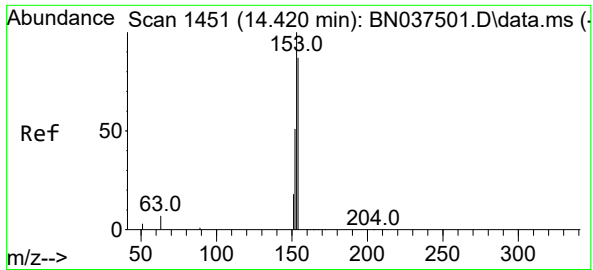
Tgt Ion:	172	Resp:	3760
Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.4	44.2
170	24.6	19.4	29.0



#16
Acenaphthylene
Concen: 0.378 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:	152	Resp:	2987
Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9
153	13.1	10.7	16.1

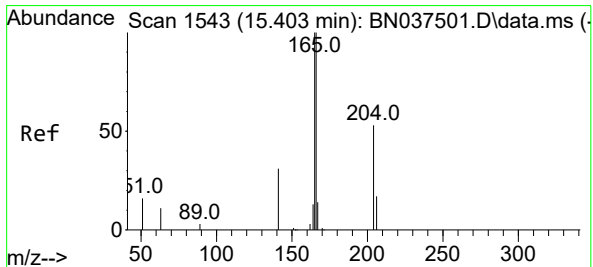
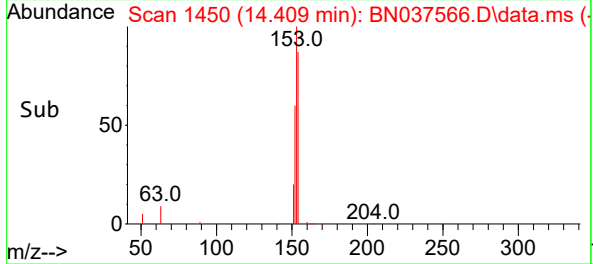
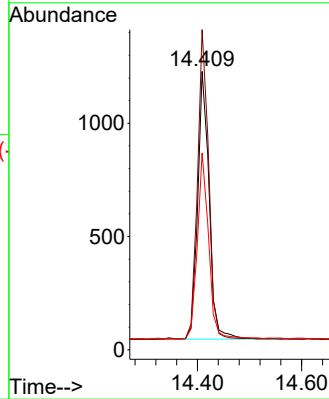
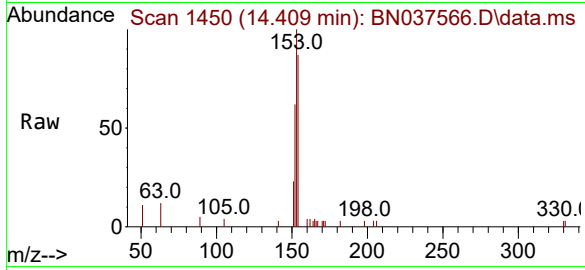




#17
Acenaphthene
Concen: 0.336 ng
RT: 14.409 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

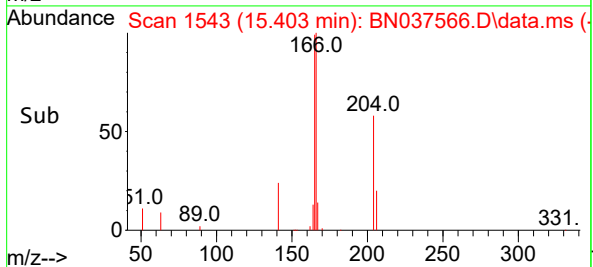
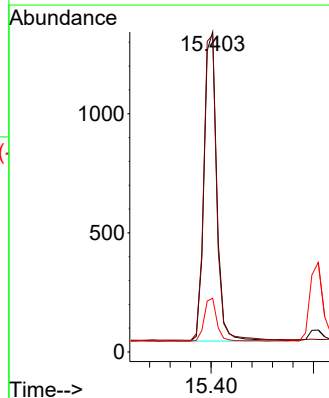
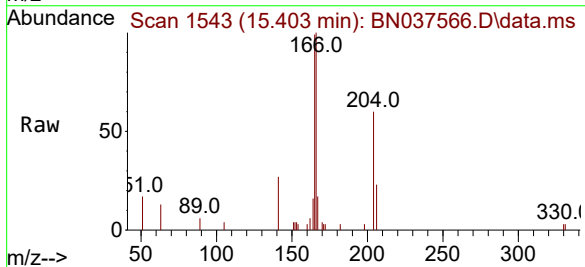
Instrument :
BNA_N
ClientSampleId :
PB169094BS

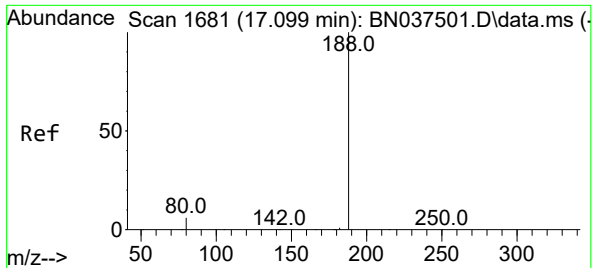
Tgt Ion:154 Resp: 1807
Ion Ratio Lower Upper
154 100
153 112.0 89.2 133.8
152 68.1 48.0 72.0



#18
Fluorene
Concen: 0.328 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:166 Resp: 2272
Ion Ratio Lower Upper
166 100
165 100.9 78.1 117.1
167 13.7 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037566.D

Acq: 05 Aug 2025 13:47

Instrument :

BNA_N

ClientSampleId :

PB169094BS

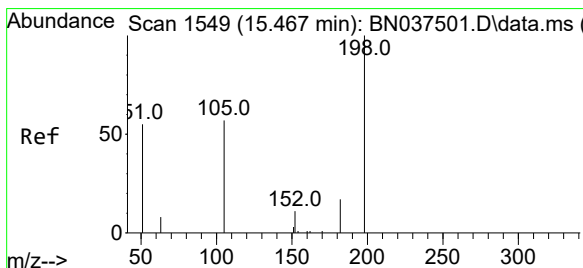
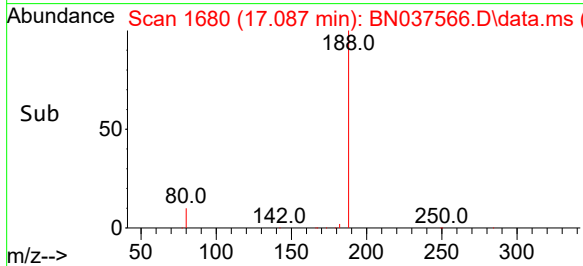
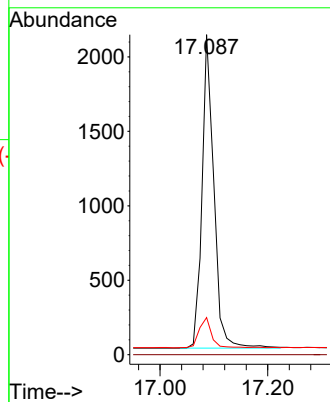
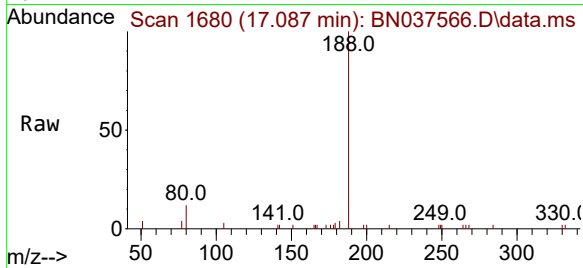
Tgt Ion:188 Resp: 3214

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.6 6.0 9.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.396 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037566.D

Acq: 05 Aug 2025 13:47

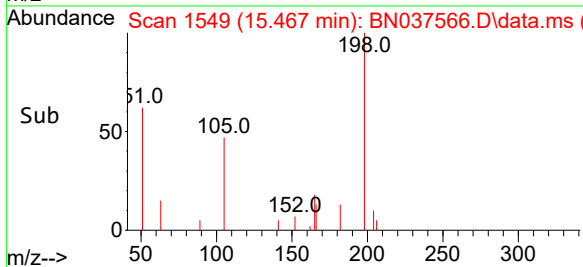
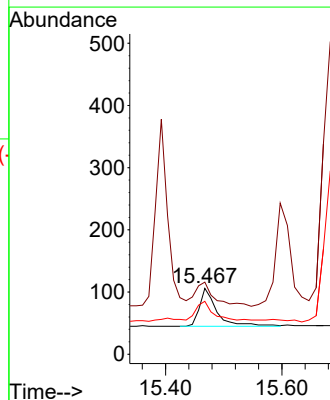
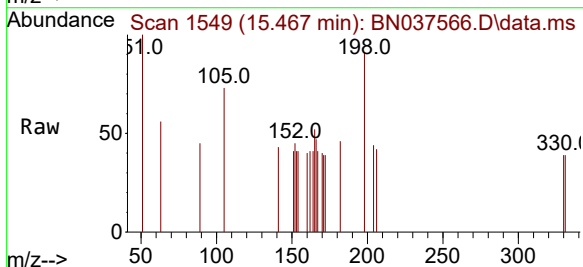
Tgt Ion:198 Resp: 133

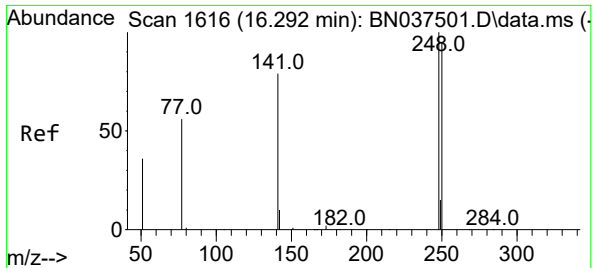
Ion Ratio Lower Upper

198 100

51 109.4 88.5 132.7

105 80.2 61.2 91.8

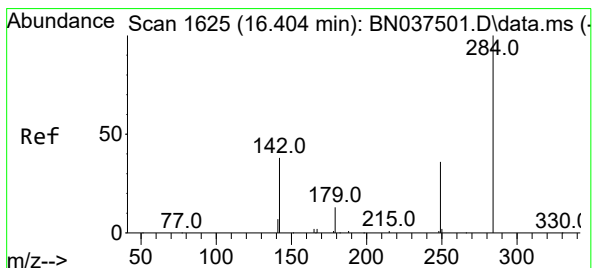
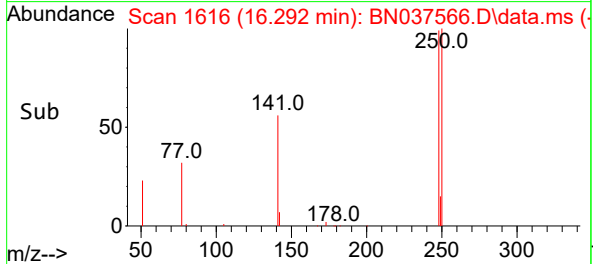
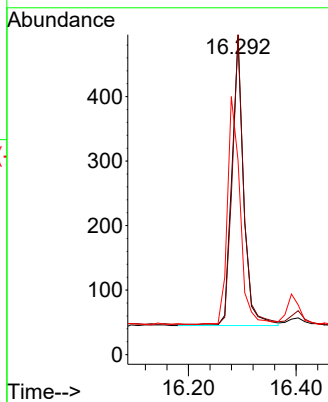
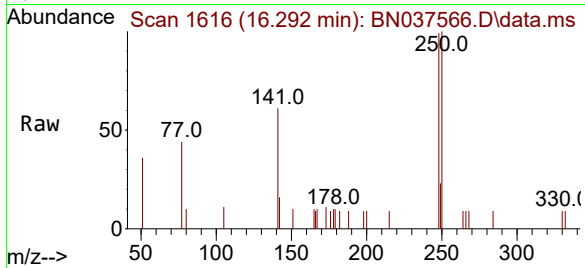




#21
4-Bromophenyl-phenylether
Concen: 0.329 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

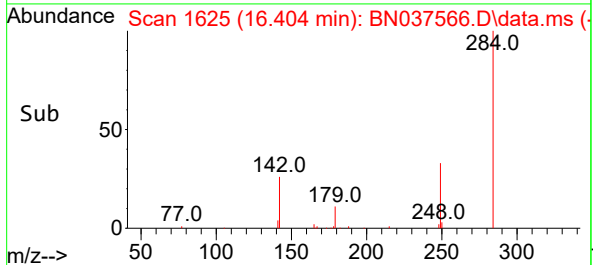
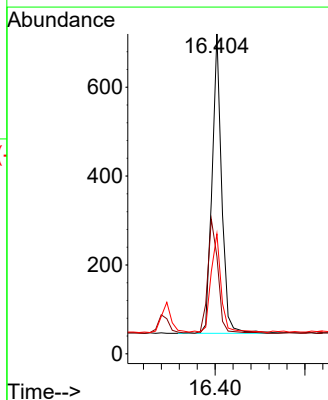
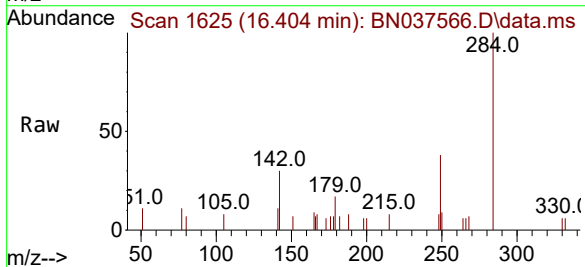
Instrument :
BNA_N
ClientSampleId :
PB169094BS

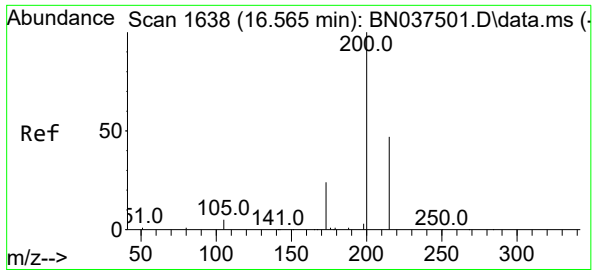
Tgt Ion:248 Resp: 678
Ion Ratio Lower Upper
248 100
250 101.0 76.2 114.2
141 61.3 63.9 95.9#



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:284 Resp: 998
Ion Ratio Lower Upper
284 100
142 40.8 28.9 43.3
249 35.2 25.8 38.6

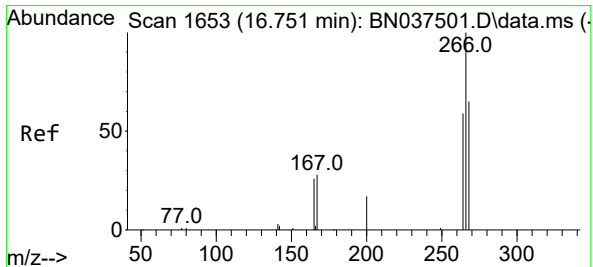
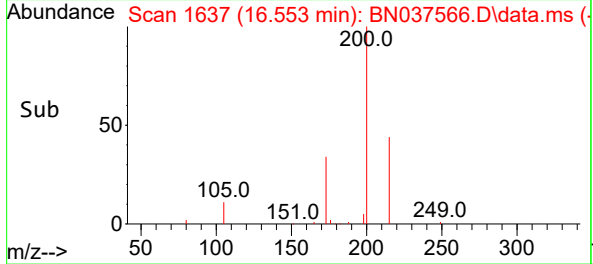
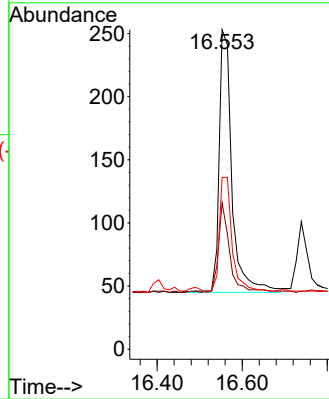
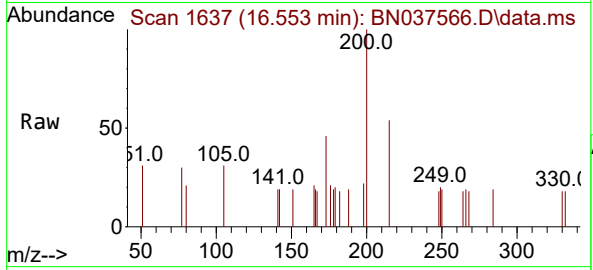




#23
Atrazine
Concen: 0.303 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

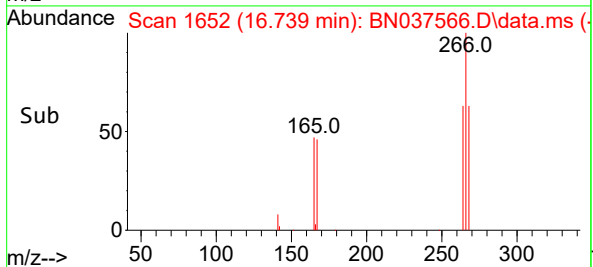
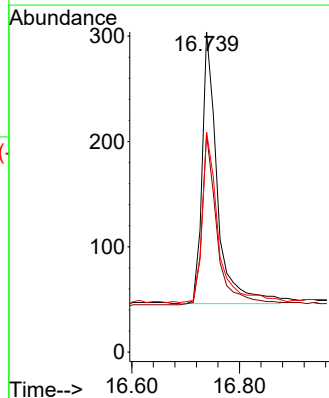
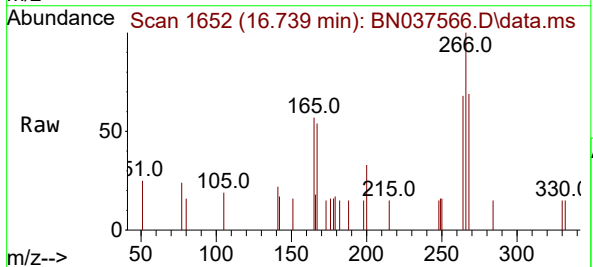
Instrument :
BNA_N
ClientSampleId :
PB169094BS

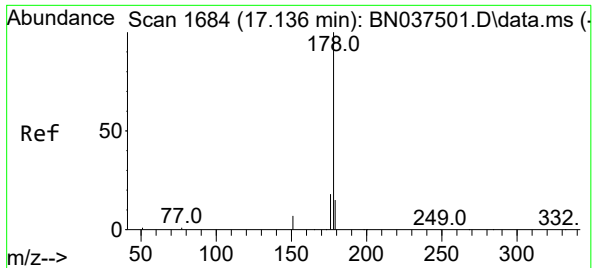
Tgt Ion:200 Resp: 435
Ion Ratio Lower Upper
200 100
173 45.8 23.2 34.8#
215 53.8 40.2 60.4



#24
Pentachlorophenol
Concen: 0.425 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:266 Resp: 507
Ion Ratio Lower Upper
266 100
264 61.9 49.3 73.9
268 65.9 51.6 77.4

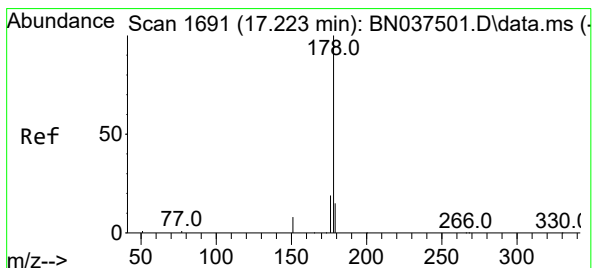
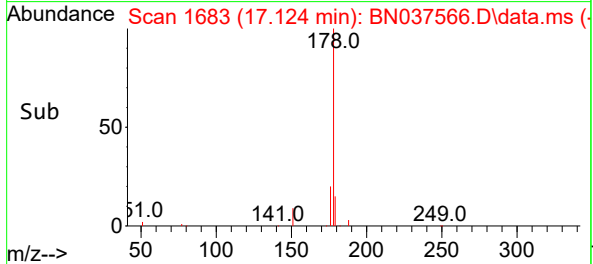
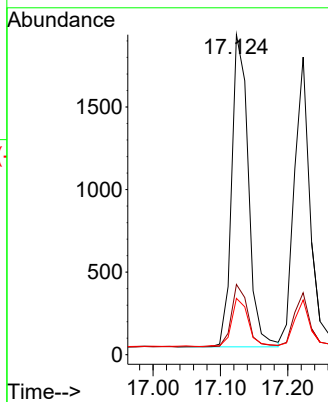
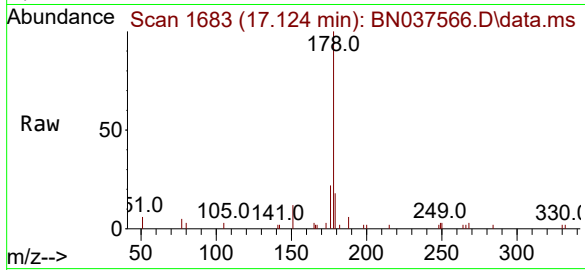




#25
Phenanthrene
Concen: 0.338 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

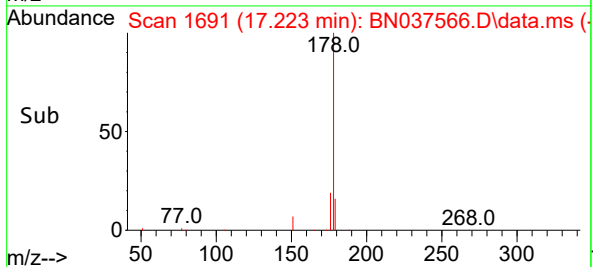
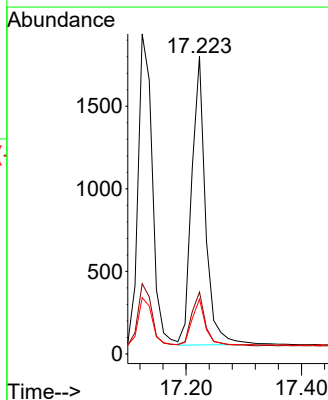
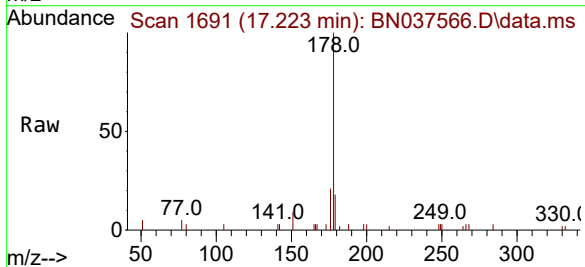
Instrument :
BNA_N
ClientSampleId :
PB169094BS

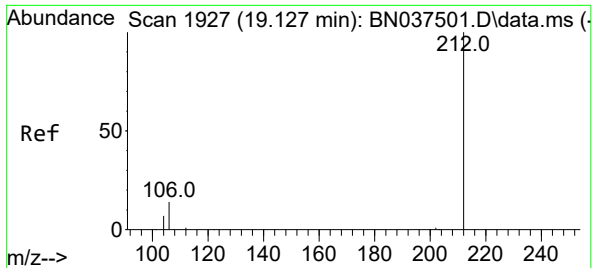
Tgt Ion:178 Resp: 3259
Ion Ratio Lower Upper
178 100
176 19.6 15.0 22.6
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.331 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:178 Resp: 2908
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.6 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.307 ng

RT: 19.122 min Scan# 1926

Delta R.T. -0.005 min

Lab File: BN037566.D

Acq: 05 Aug 2025 13:47

Instrument :

BNA_N

ClientSampleId :

PB169094BS

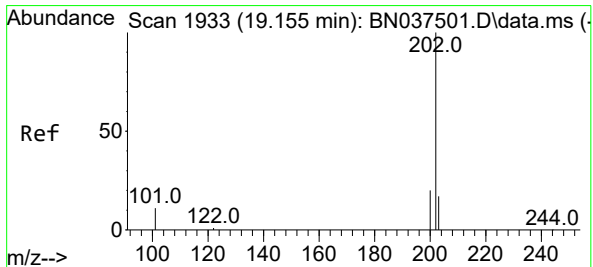
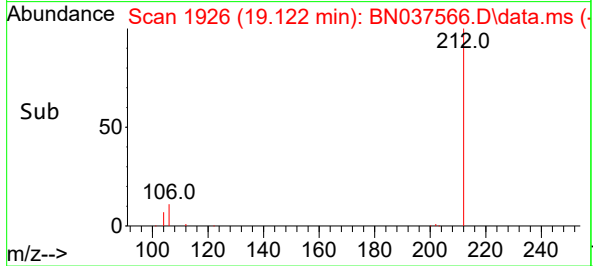
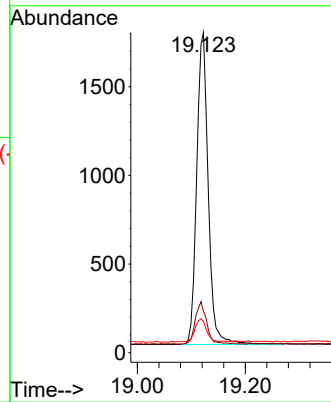
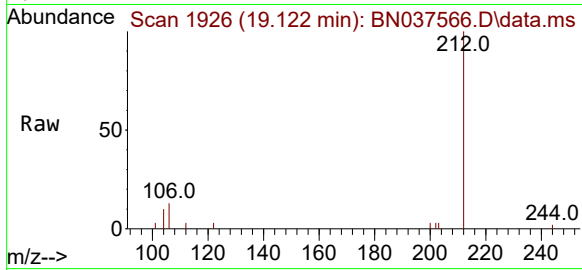
Tgt Ion:212 Resp: 2613

Ion Ratio Lower Upper

212 100

106 13.6 12.2 18.4

104 7.1 6.7 10.1



#28

Fluoranthene

Concen: 0.297 ng

RT: 19.150 min Scan# 1932

Delta R.T. -0.005 min

Lab File: BN037566.D

Acq: 05 Aug 2025 13:47

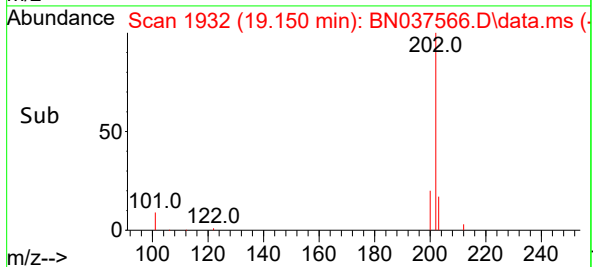
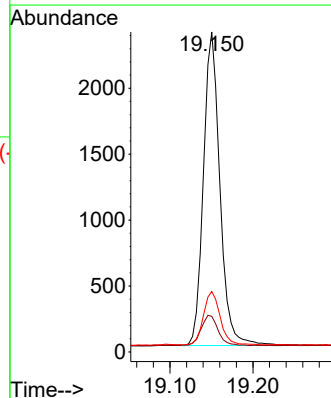
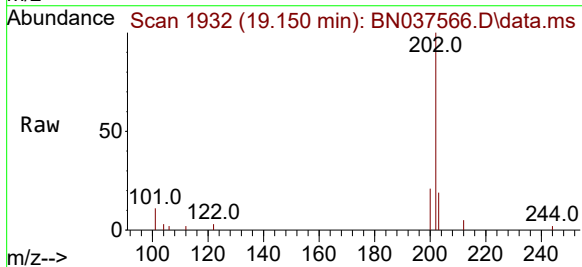
Tgt Ion:202 Resp: 3298

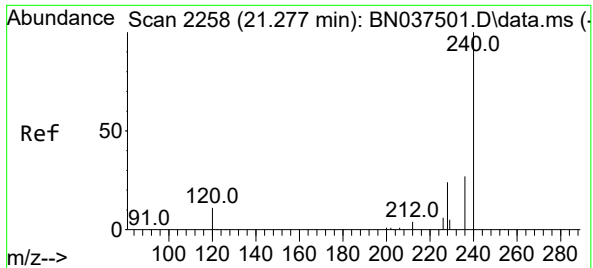
Ion Ratio Lower Upper

202 100

101 9.9 9.8 14.6

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037566.D

Acq: 05 Aug 2025 13:47

Instrument :

BNA_N

ClientSampleId :

PB169094BS

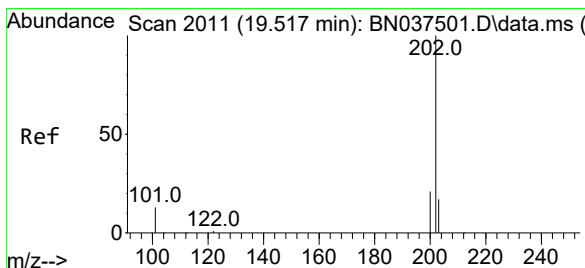
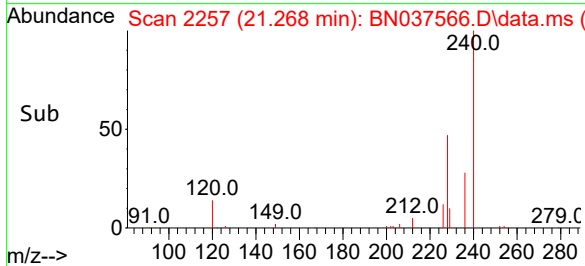
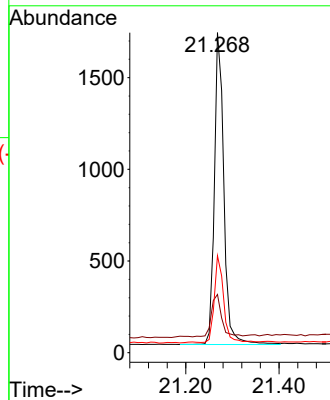
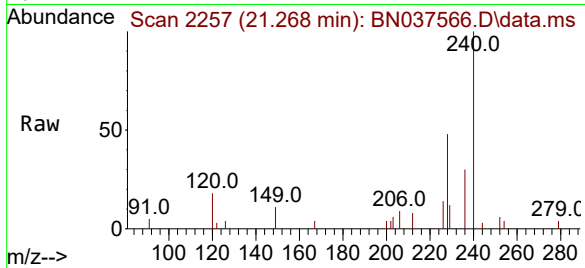
Tgt Ion:240 Resp: 2404

Ion Ratio Lower Upper

240 100

120 18.2 10.7 16.1#

236 30.3 22.6 33.8



#30

Pyrene

Concen: 0.333 ng

RT: 19.513 min Scan# 2010

Delta R.T. -0.005 min

Lab File: BN037566.D

Acq: 05 Aug 2025 13:47

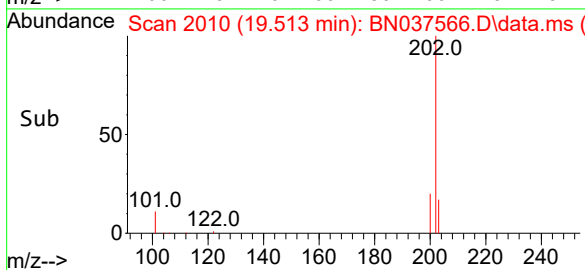
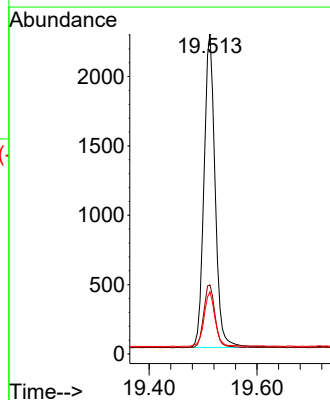
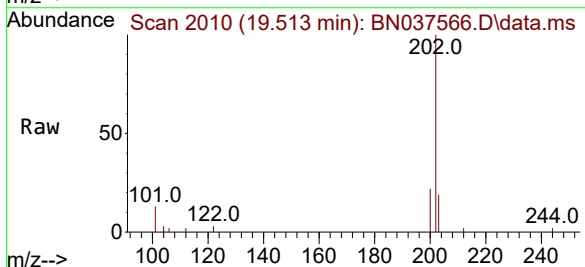
Tgt Ion:202 Resp: 3228

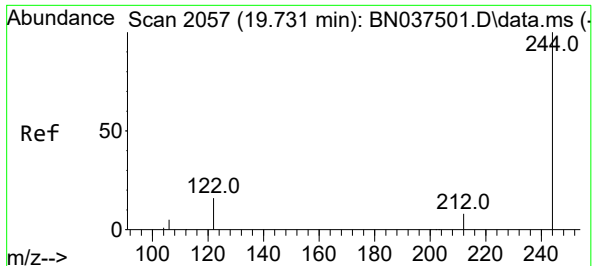
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

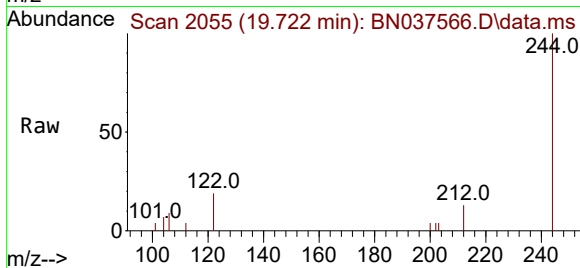
203 17.5 14.3 21.5



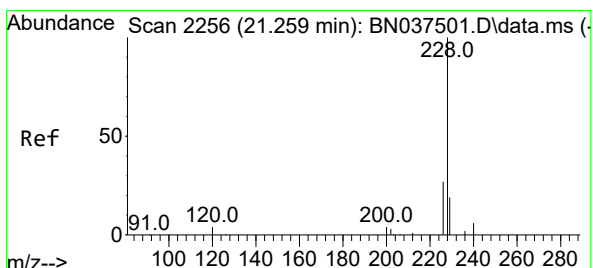
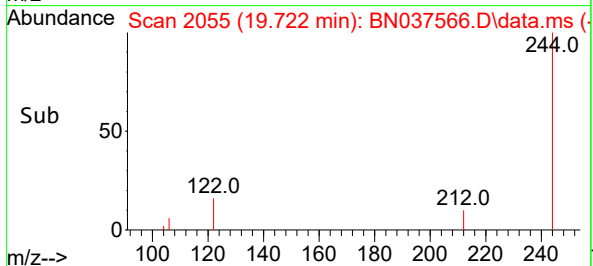
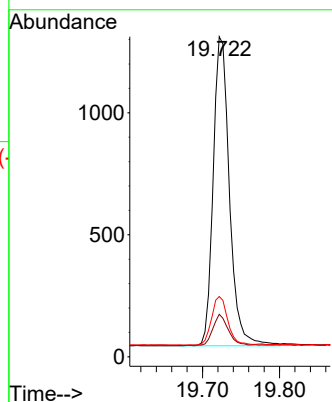


#31
 Terphenyl-d14
 Concen: 0.359 ng
 RT: 19.722 min Scan# 2055
 Delta R.T. -0.009 min
 Lab File: BN037566.D
 Acq: 05 Aug 2025 13:47

Instrument :
 BNA_N
 ClientSampleId :
 PB169094BS

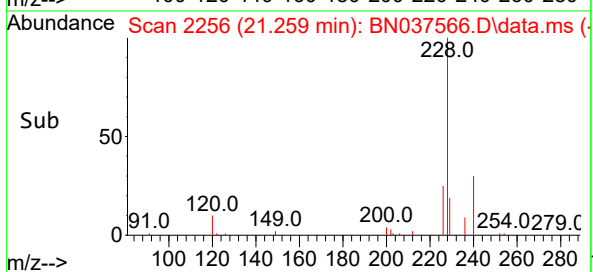
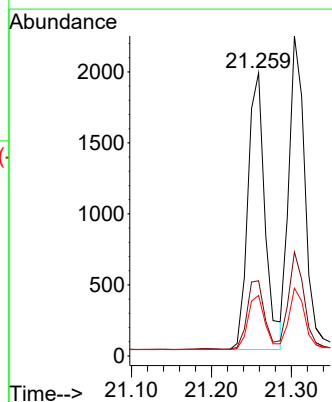
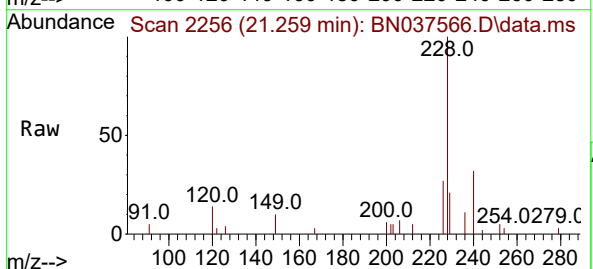


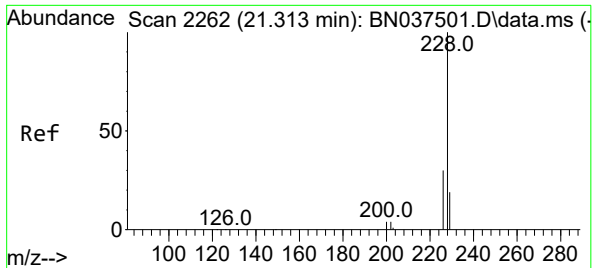
Tgt Ion:244 Resp: 1857
 Ion Ratio Lower Upper
 244 100
 212 13.3 7.4 11.2#
 122 18.8 13.6 20.4



#32
 Benzo(a)anthracene
 Concen: 0.345 ng
 RT: 21.259 min Scan# 2256
 Delta R.T. 0.000 min
 Lab File: BN037566.D
 Acq: 05 Aug 2025 13:47

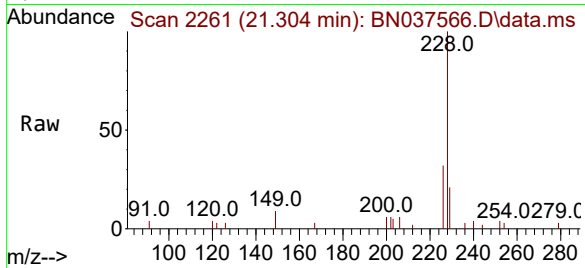
Tgt Ion:228 Resp: 2903
 Ion Ratio Lower Upper
 228 100
 226 26.5 21.9 32.9
 229 21.3 15.8 23.8



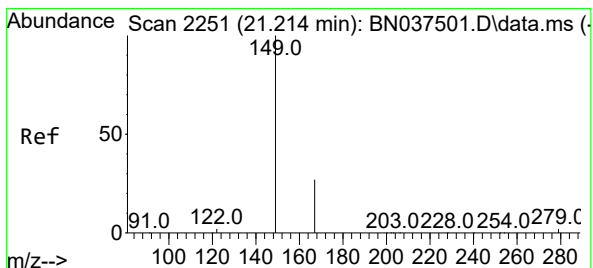
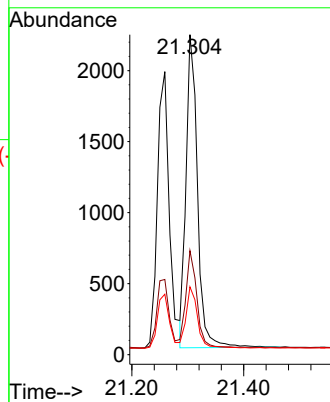
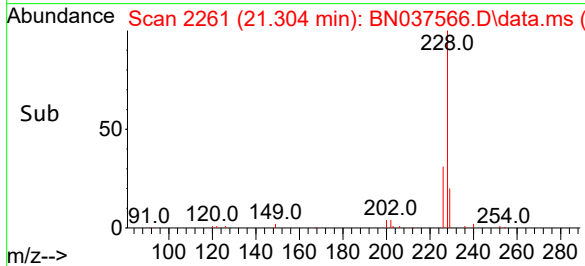


#33
Chrysene
Concen: 0.358 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

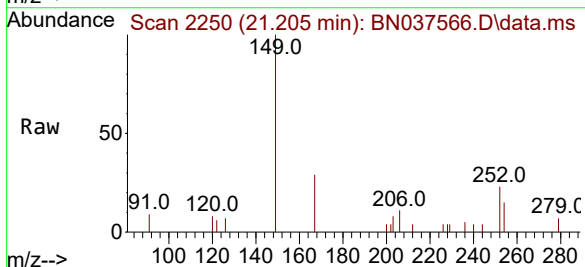
Instrument :
BNA_N
ClientSampleId :
PB169094BS



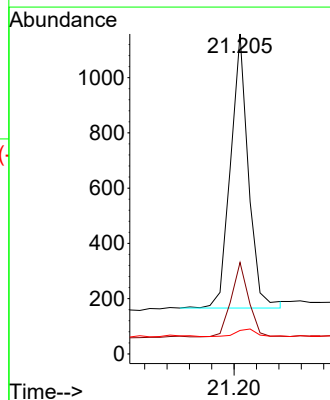
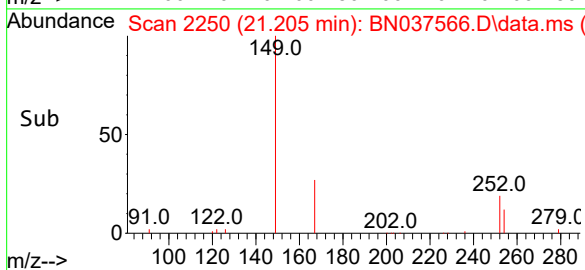
Tgt Ion:228 Resp: 3135
Ion Ratio Lower Upper
228 100
226 32.5 24.2 36.4
229 21.2 16.1 24.1

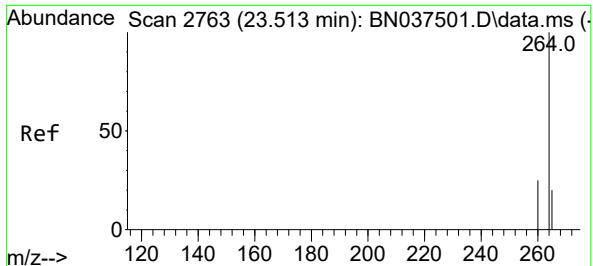


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.291 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47



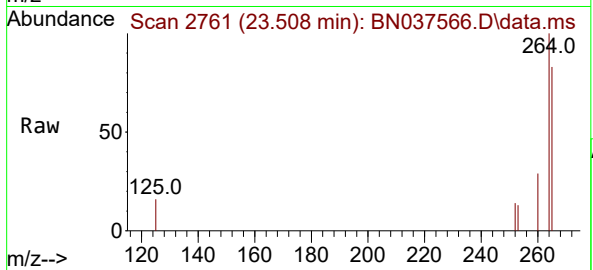
Tgt Ion:149 Resp: 1102
Ion Ratio Lower Upper
149 100
167 26.4 21.8 32.8
279 3.0 3.0 4.4



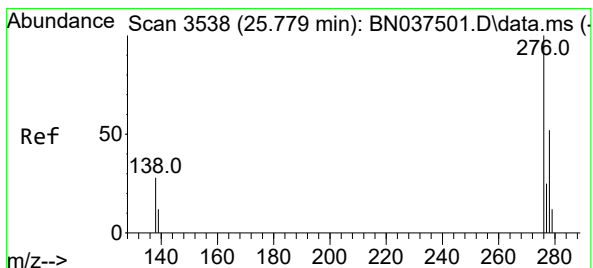
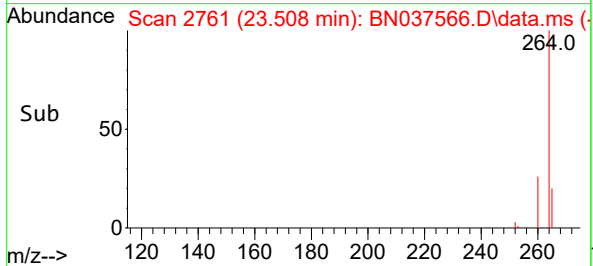
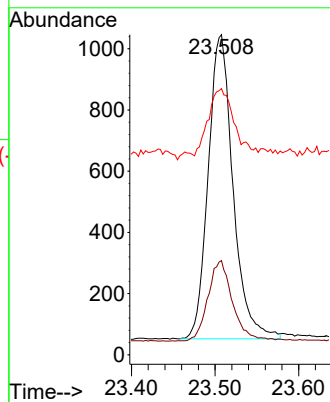


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.508 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Instrument :
BNA_N
ClientSampleId :
PB169094BS

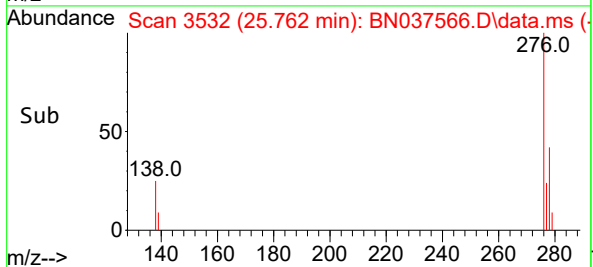
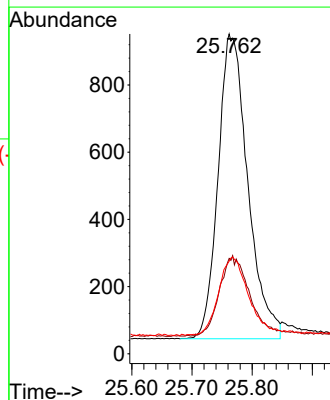
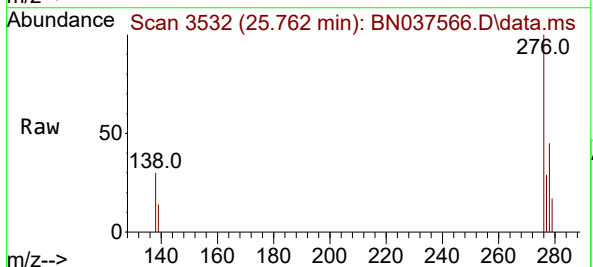


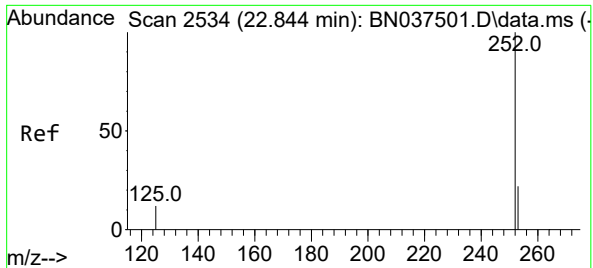
Tgt Ion:264 Resp: 2051
Ion Ratio Lower Upper
264 100
260 29.4 21.2 31.8
265 83.2 40.4 60.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.363 ng
RT: 25.762 min Scan# 3532
Delta R.T. -0.017 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:276 Resp: 3100
Ion Ratio Lower Upper
276 100
138 27.2 24.0 36.0
277 26.0 20.5 30.7

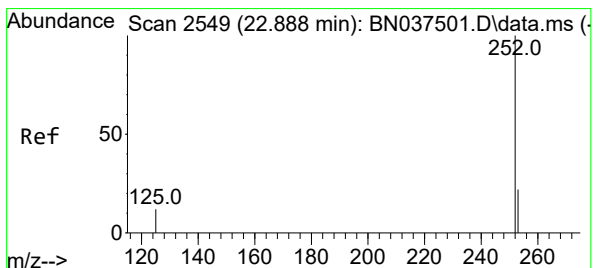
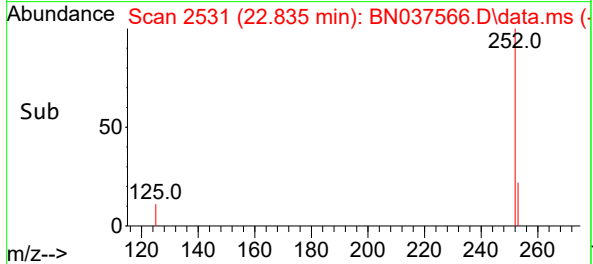
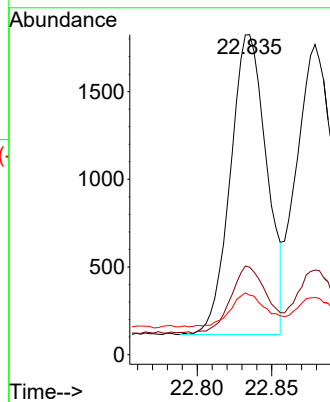
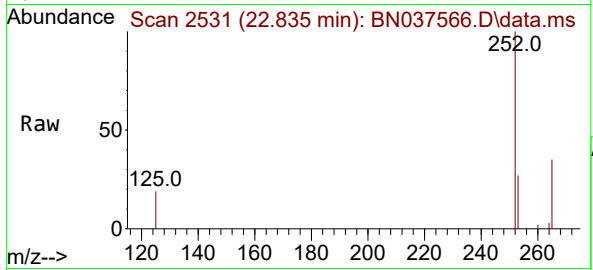




#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 22.835 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

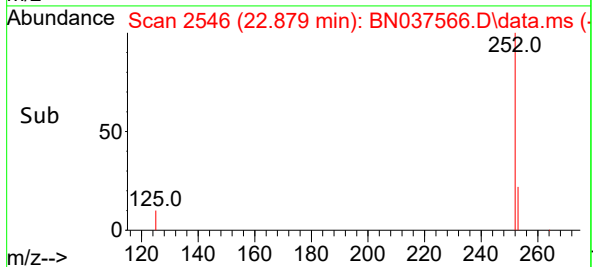
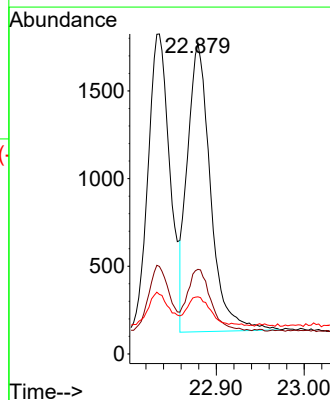
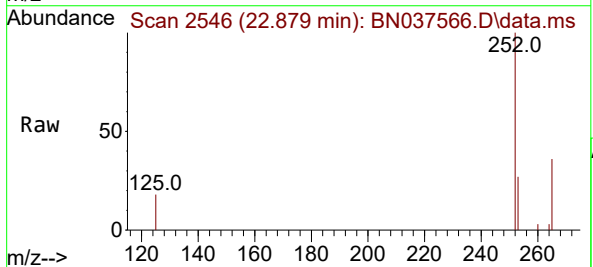
Instrument :
BNA_N
ClientSampleId :
PB169094BS

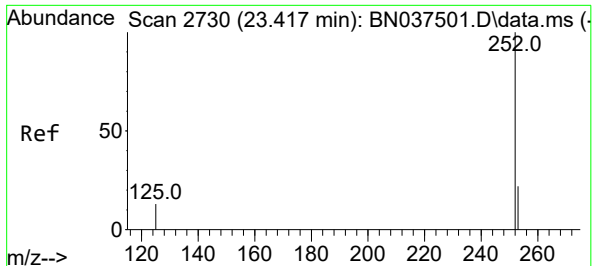
Tgt Ion:252 Resp: 2895
Ion Ratio Lower Upper
252 100
253 27.3 19.5 29.3
125 18.6 13.0 19.6



#38
Benzo(k)fluoranthene
Concen: 0.373 ng
RT: 22.879 min Scan# 2546
Delta R.T. -0.009 min
Lab File: BN037566.D
Acq: 05 Aug 2025 13:47

Tgt Ion:252 Resp: 2995
Ion Ratio Lower Upper
252 100
253 27.3 19.5 29.3
125 18.4 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037566.D

Acq: 05 Aug 2025 13:47

Instrument :

BNA_N

ClientSampleId :

PB169094BS

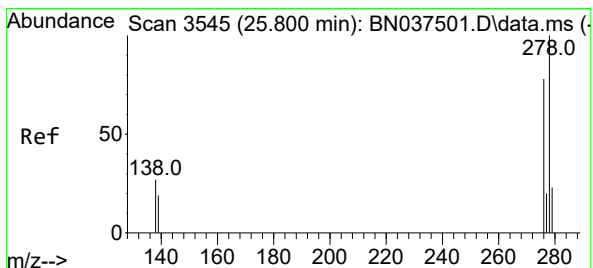
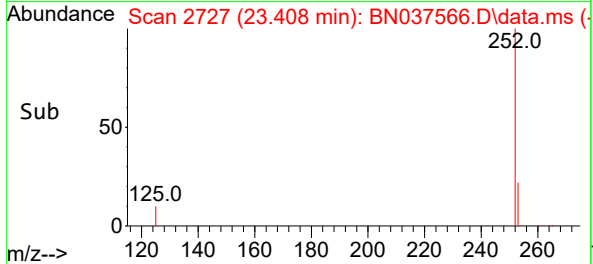
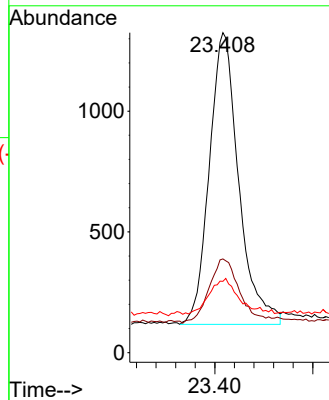
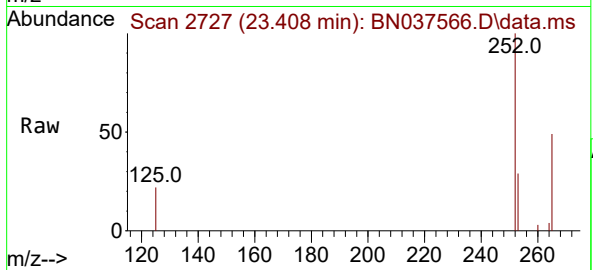
Tgt Ion:252 Resp: 2515

Ion Ratio Lower Upper

252 100

253 29.3 19.9 29.9

125 22.3 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.350 ng

RT: 25.779 min Scan# 3538

Delta R.T. -0.020 min

Lab File: BN037566.D

Acq: 05 Aug 2025 13:47

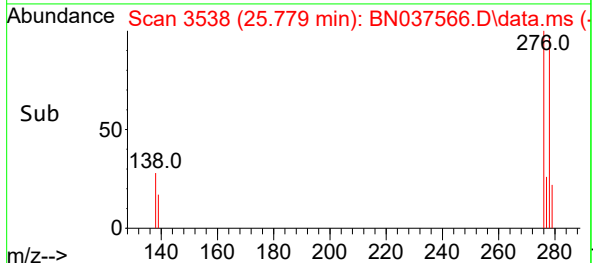
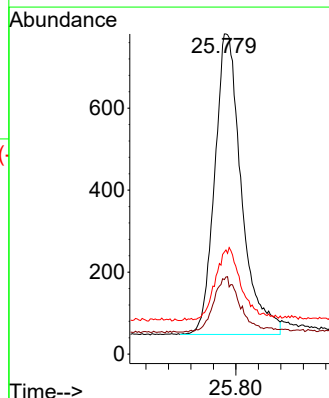
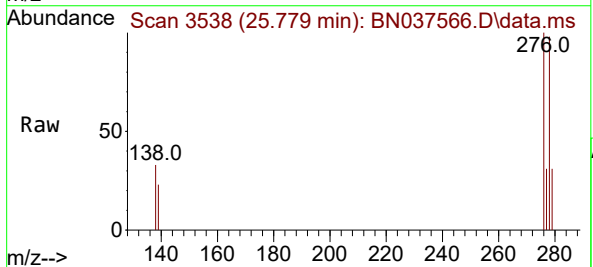
Tgt Ion:278 Resp: 2418

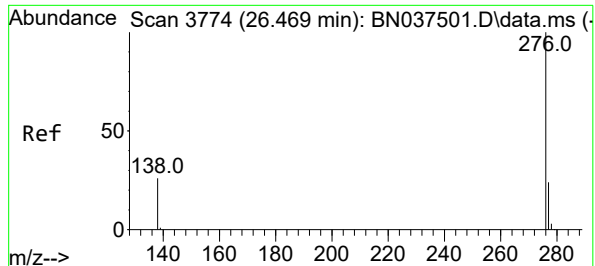
Ion Ratio Lower Upper

278 100

139 23.3 17.5 26.3

279 31.9 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.391 ng

RT: 26.452 min Scan# 31

Delta R.T. -0.017 min

Lab File: BN037566.D

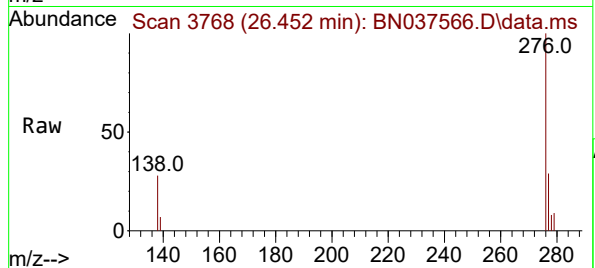
Acq: 05 Aug 2025 13:47

Instrument :

BNA_N

ClientSampleId :

PB169094BS



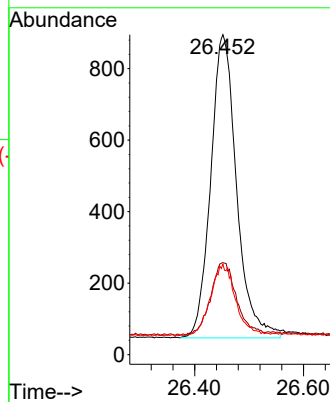
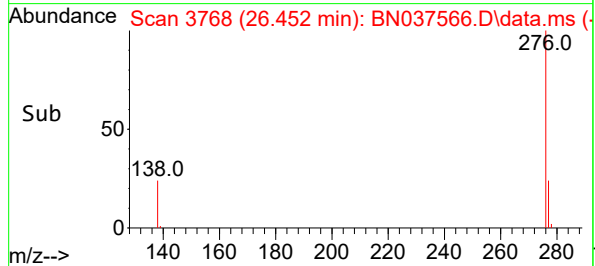
Tgt Ion:276 Resp: 2798

Ion Ratio Lower Upper

276 100

277 28.7 20.9 31.3

138 28.3 22.6 33.8



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	
Client Sample ID:	PB169094BSD	SDG No.:	Q2746
Lab Sample ID:	PB169094BSD	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
BN037567.D	1	08/04/25 08:40	08/05/25 14:23	PB169094

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.29		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	0.30		30 - 150		75%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		92%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1690	7.717				
1146-65-2	Naphthalene-d8	4040	10.498				
15067-26-2	Acenaphthene-d10	1850	14.345				
1517-22-2	Phenanthrene-d10	3300	17.086				
1719-03-5	Chrysene-d12	2340	21.268				
1520-96-3	Perylene-d12	2000	23.508				

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\BN080525\
 Data File : BN037567.D
 Acq On : 05 Aug 2025 14:23
 Operator : RC/JU
 Sample : PB169094BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169094BSD

Quant Time: Aug 06 01:39:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

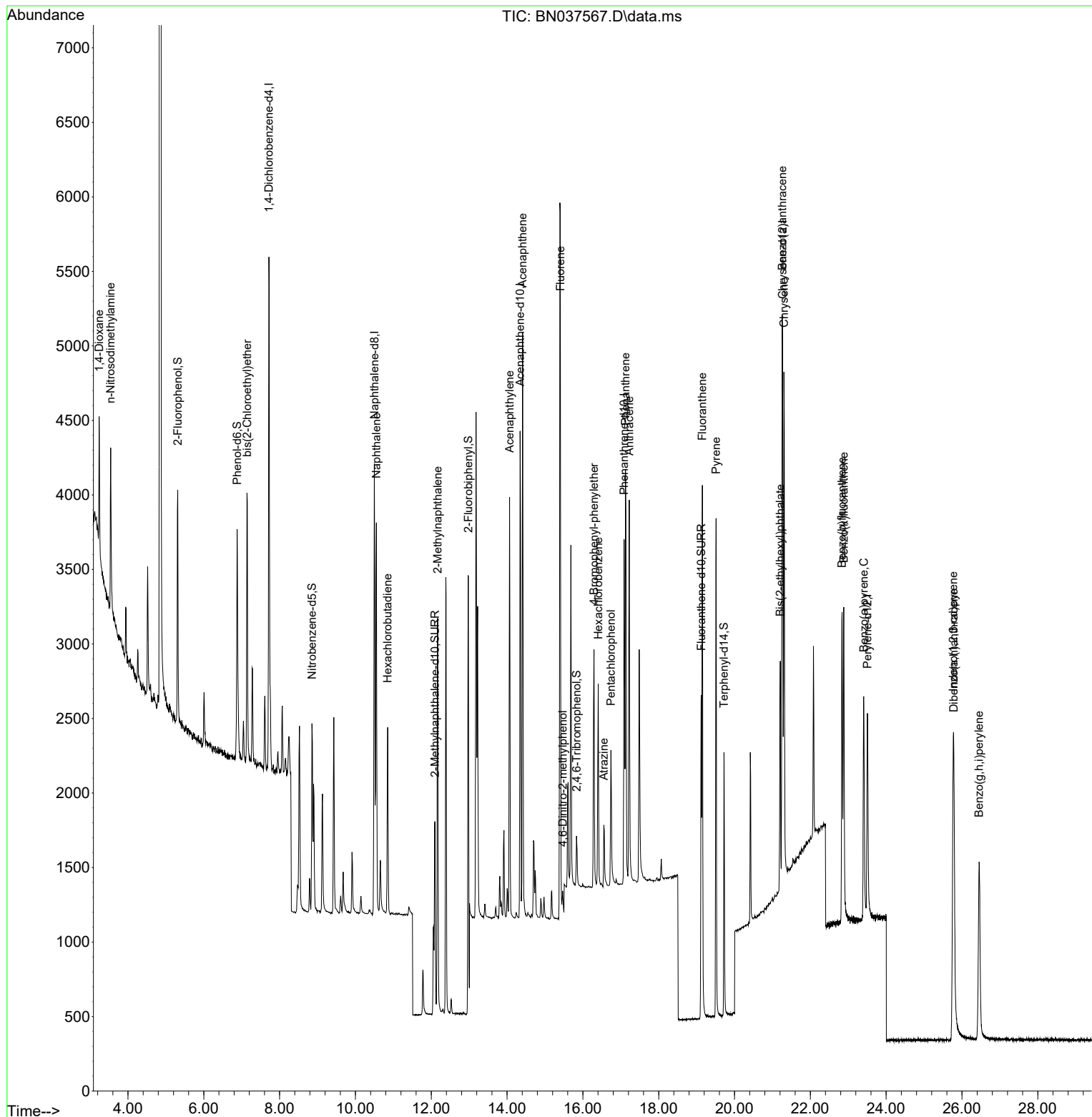
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1690	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4042	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	1850	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	3303	0.400	ng	#-0.01
29) Chrysene-d12	21.268	240	2343	0.400	ng	# 0.00
35) Perylene-d12	23.508	264	2004	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1226	0.293	ng	0.00
5) Phenol-d6	6.879	99	1407	0.268	ng	0.00
8) Nitrobenzene-d5	8.854	82	1069	0.354	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1961	0.338	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	232	0.255	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3867	0.402	ng	0.00
27) Fluoranthene-d10	19.122	212	2629	0.300	ng	0.00
31) Terphenyl-d14	19.722	244	1858	0.369	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	472	0.291	ng	# 58
3) n-Nitrosodimethylamine	3.543	42	810	0.396	ng	# 76
6) bis(2-Chloroethyl)ether	7.147	93	1369	0.314	ng	96
9) Naphthalene	10.552	128	3541	0.328	ng	98
10) Hexachlorobutadiene	10.850	225	990	0.416	ng	# 100
12) 2-Methylnaphthalene	12.167	142	1955	0.276	ng	97
16) Acenaphthylene	14.067	152	3078	0.371	ng	99
17) Acenaphthene	14.409	154	1863	0.331	ng	96
18) Fluorene	15.403	166	2324	0.320	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	129	0.379	ng	96
21) 4-Bromophenyl-phenylether	16.292	248	680	0.321	ng	# 88
22) Hexachlorobenzene	16.404	284	1058	0.387	ng	96
23) Atrazine	16.553	200	434	0.294	ng	# 85
24) Pentachlorophenol	16.739	266	509	0.415	ng	96
25) Phenanthrene	17.124	178	3319	0.335	ng	99
26) Anthracene	17.223	178	3000	0.332	ng	100
28) Fluoranthene	19.150	202	3311	0.290	ng	97
30) Pyrene	19.513	202	3180	0.337	ng	100
32) Benzo(a)anthracene	21.259	228	2765	0.337	ng	97
33) Chrysene	21.304	228	3113	0.364	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	1100	0.298	ng	99
36) Indeno(1,2,3-cd)pyrene	25.770	276	3023	0.362	ng	95
37) Benzo(b)fluoranthene	22.835	252	2770	0.364	ng	95
38) Benzo(k)fluoranthene	22.882	252	2847	0.363	ng	94
39) Benzo(a)pyrene	23.408	252	2409	0.380	ng	# 89
40) Dibenzo(a,h)anthracene	25.785	278	2339	0.346	ng	# 88
41) Benzo(g,h,i)perylene	26.452	276	2676	0.382	ng	97

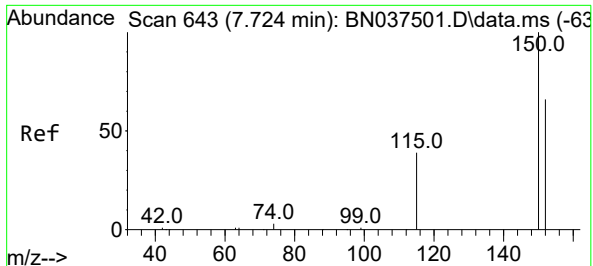
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080525\
Data File : BN037567.D
Acq On : 05 Aug 2025 14:23
Operator : RC/JU
Sample : PB169094BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169094BSD

Quant Time: Aug 06 01:39:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

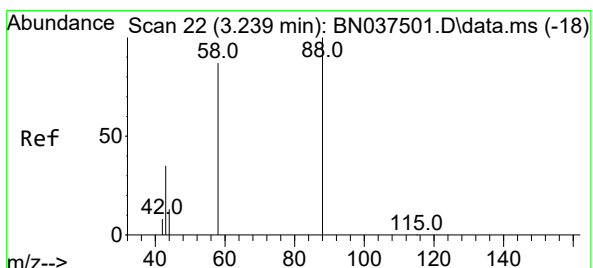
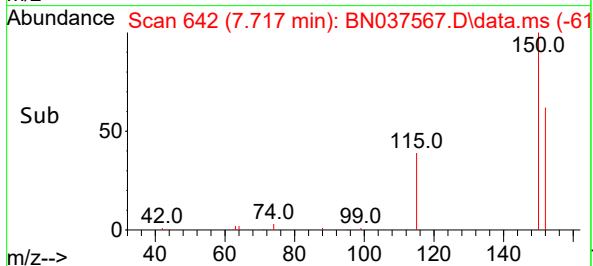
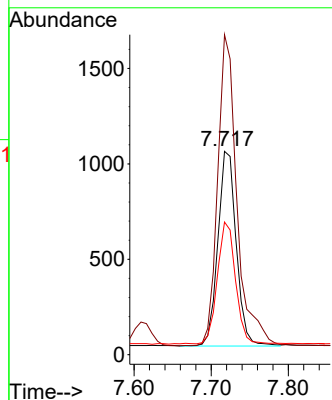
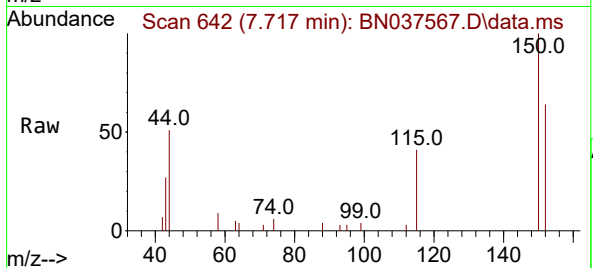




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

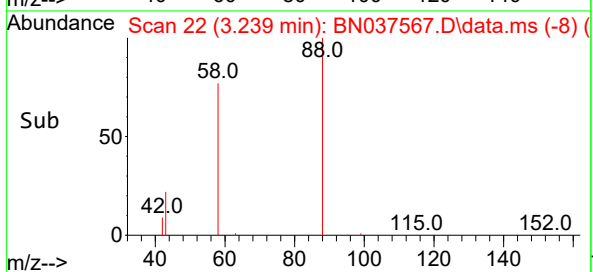
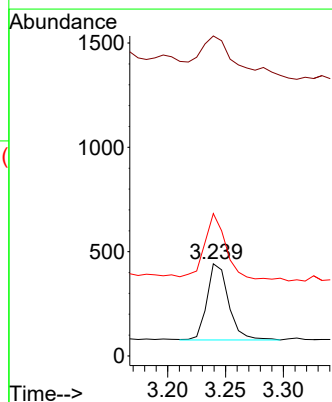
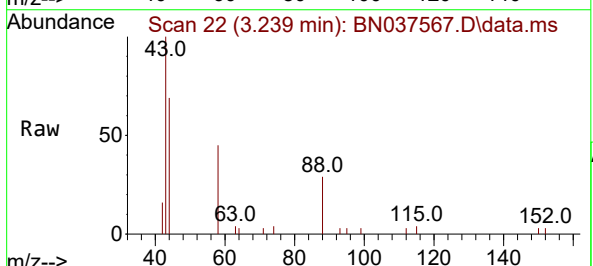
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

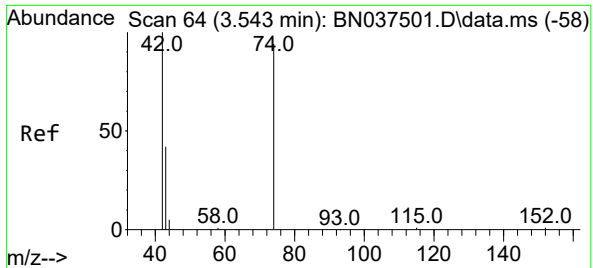
Tgt Ion:152 Resp: 1690
Ion Ratio Lower Upper
152 100
150 157.3 119.8 179.8
115 65.2 49.1 73.7



#2
1,4-Dioxane
Concen: 0.291 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion: 88 Resp: 472
Ion Ratio Lower Upper
88 100
43 89.8 27.5 41.3#
58 94.5 62.7 94.1#

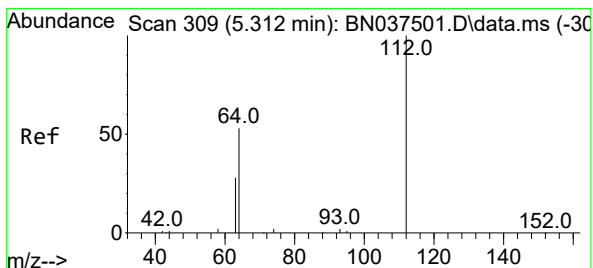
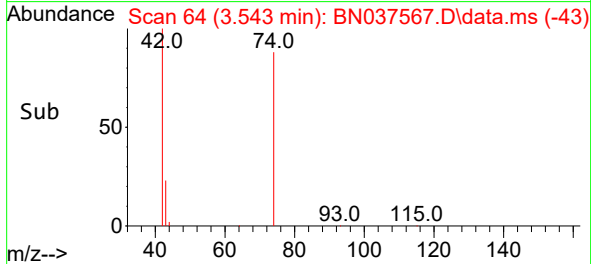
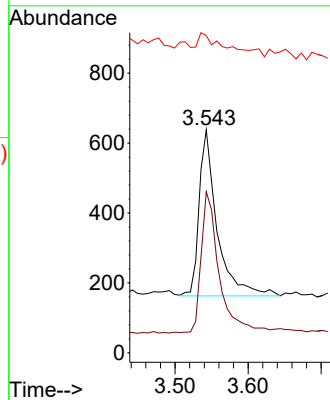
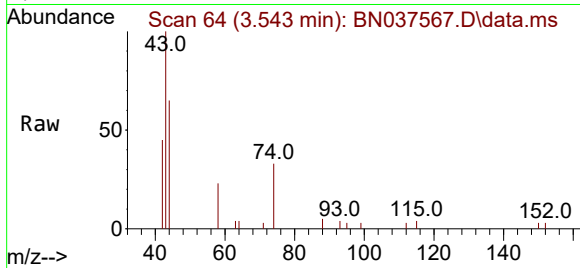




#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

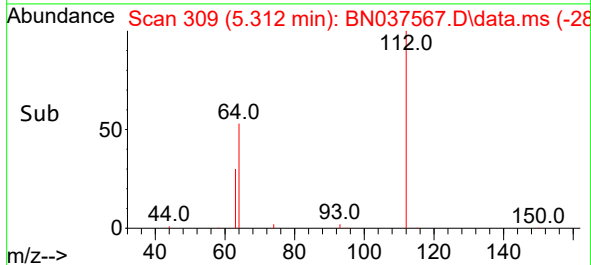
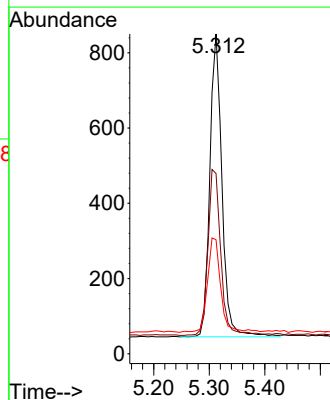
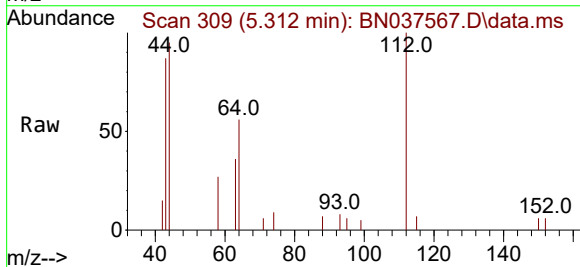
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

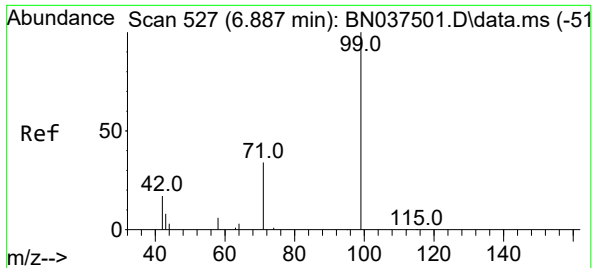
Tgt Ion: 42 Resp: 810
Ion Ratio Lower Upper
42 100
74 85.4 91.8 137.6#
44 22.6 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.293 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion: 112 Resp: 1226
Ion Ratio Lower Upper
112 100
64 57.9 45.1 67.7
63 33.4 23.8 35.8

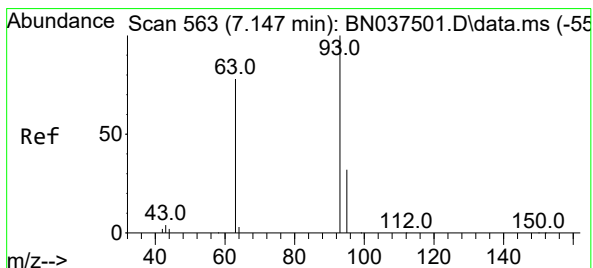
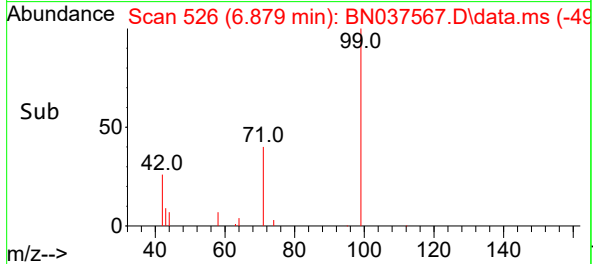
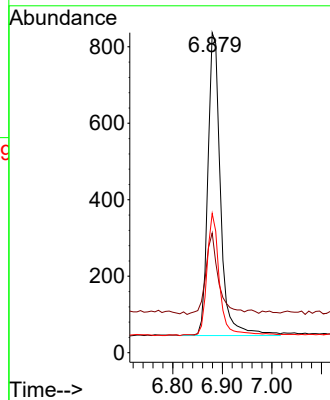
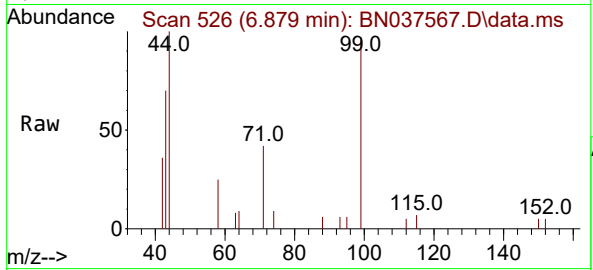




#5
Phenol-d6
Concen: 0.268 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

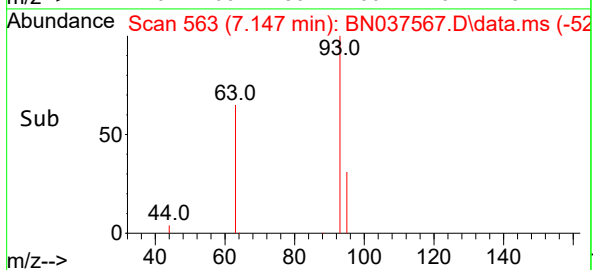
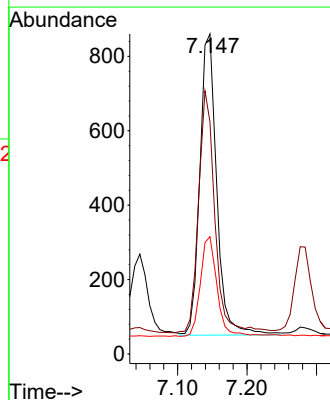
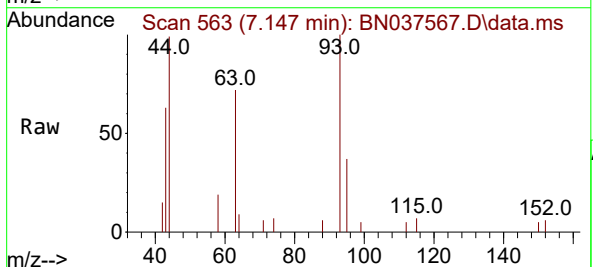
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

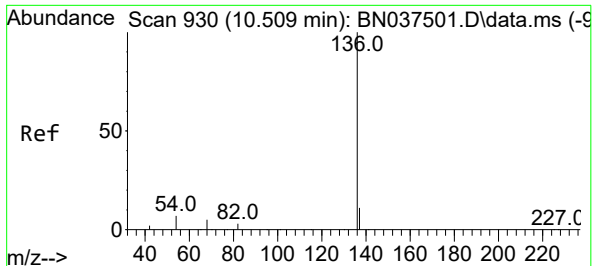
Tgt Ion: 99 Resp: 1407
Ion Ratio Lower Upper
99 100
42 27.2 17.1 25.7#
71 40.2 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.314 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion: 93 Resp: 1369
Ion Ratio Lower Upper
93 100
63 77.4 58.2 87.4
95 32.8 25.3 37.9

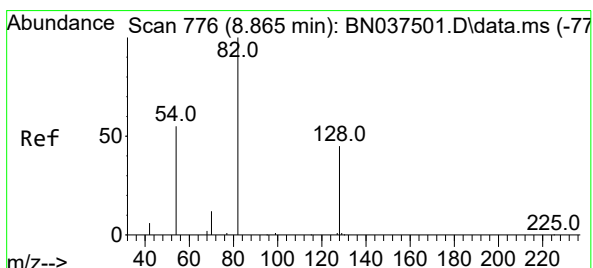
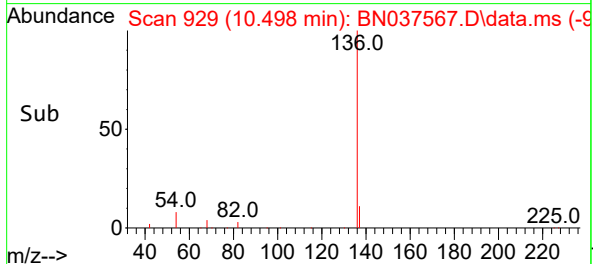
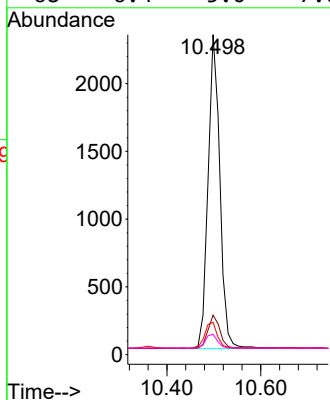
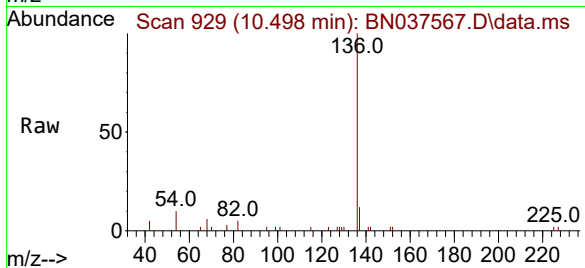




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

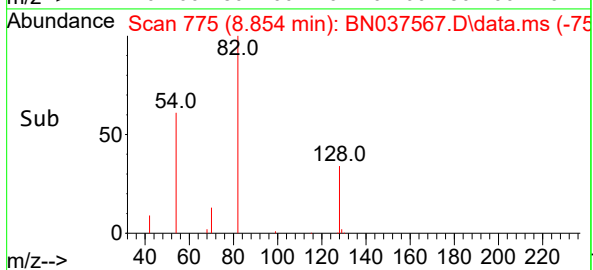
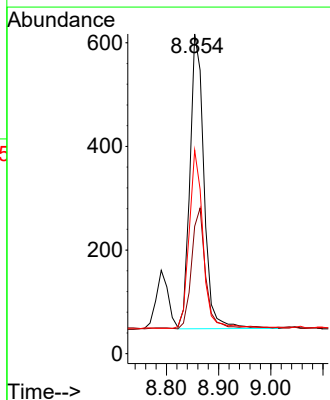
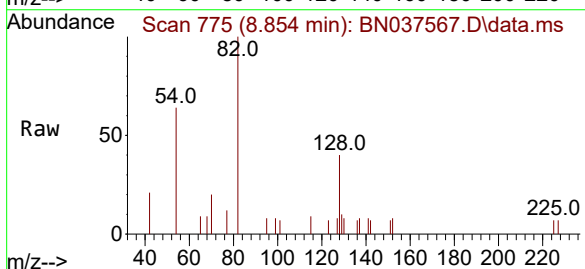
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

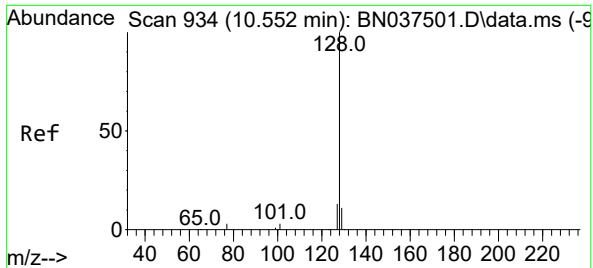
Tgt Ion:	136	Resp:	4042
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.8	14.8
54	10.1	6.6	9.8#
68	6.4	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.354 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.011 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:	82	Resp:	1069
Ion	Ratio	Lower	Upper
82	100		
128	39.9	37.5	56.3
54	63.7	45.3	67.9

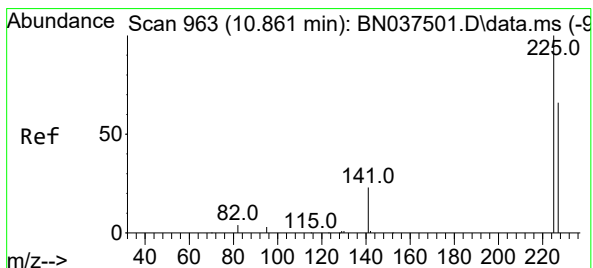
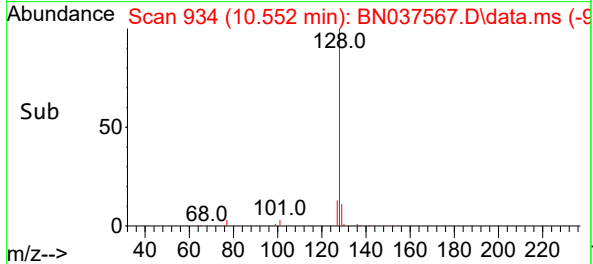
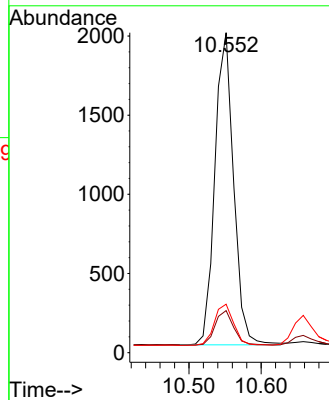
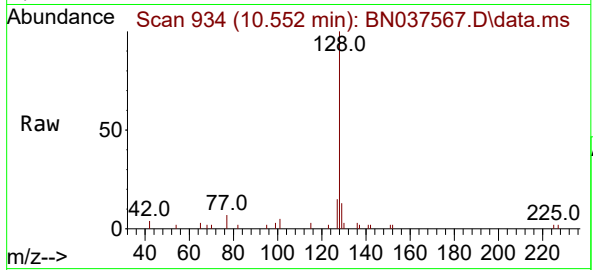




#9
Naphthalene
Concen: 0.328 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

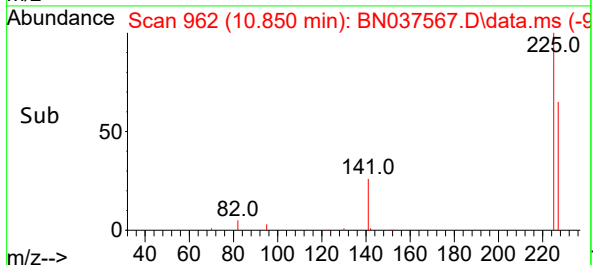
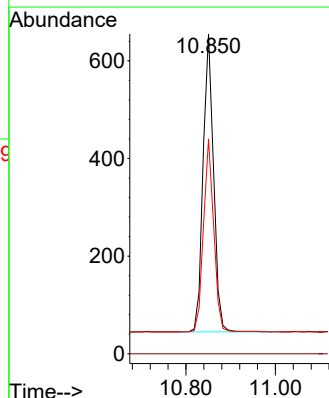
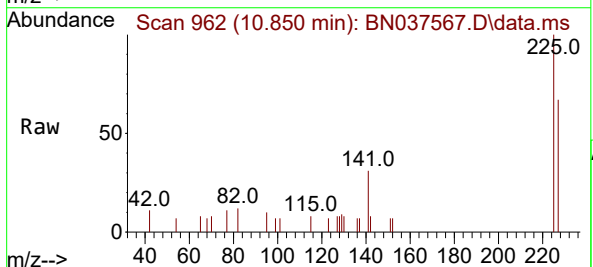
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

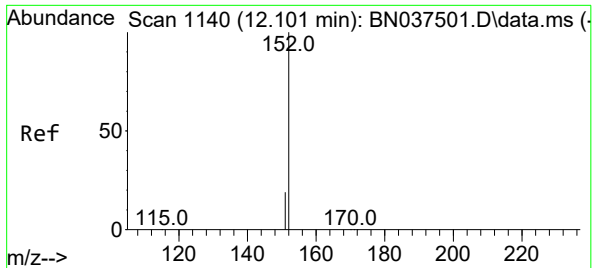
Tgt Ion:	128	Resp:	3541
Ion	Ratio	Lower	Upper
128	100		
129	13.1	9.7	14.5
127	15.1	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:	225	Resp:	990
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.0	76.4

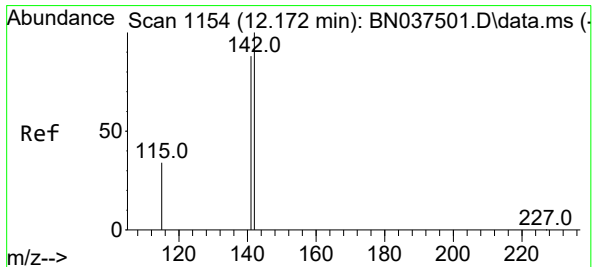
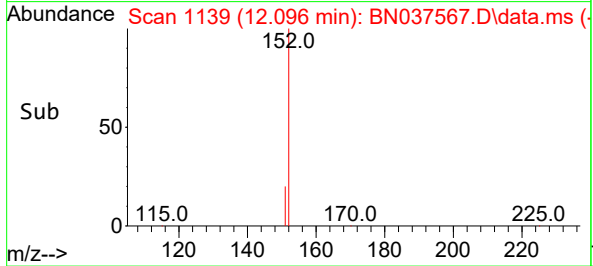
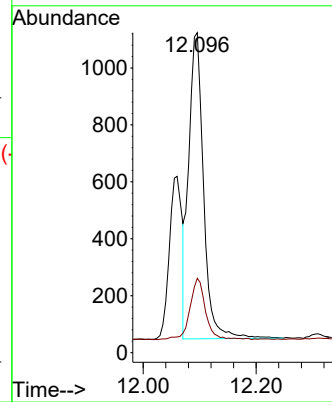
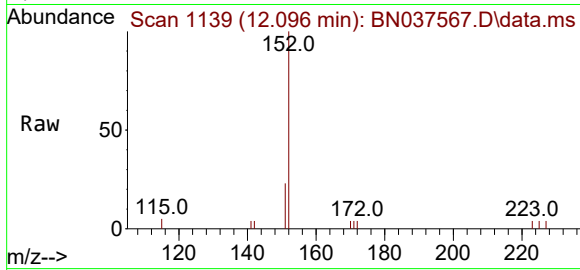




#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

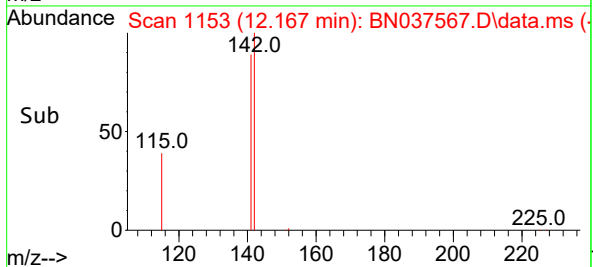
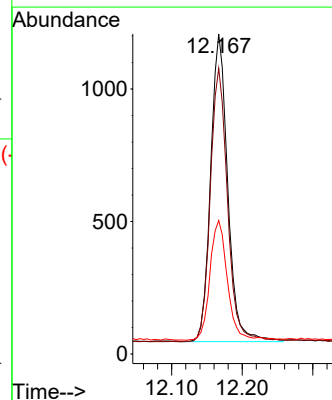
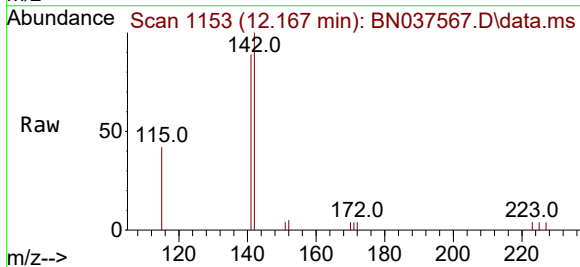
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

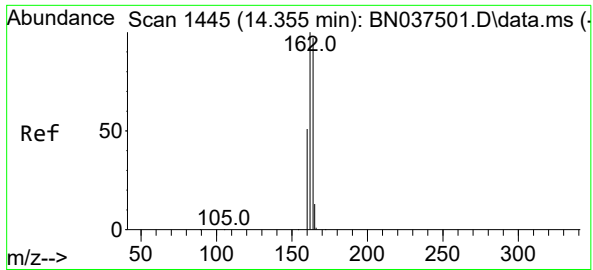
Tgt Ion:152 Resp: 1961
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.276 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:142 Resp: 1955
Ion Ratio Lower Upper
142 100
141 89.2 71.0 106.4
115 41.7 29.0 43.4

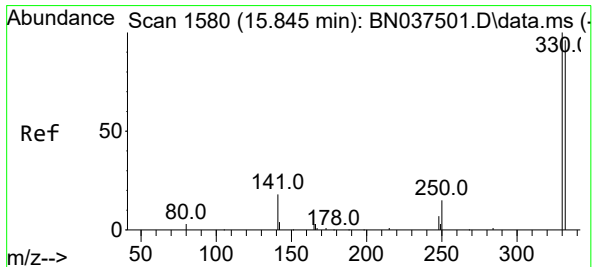
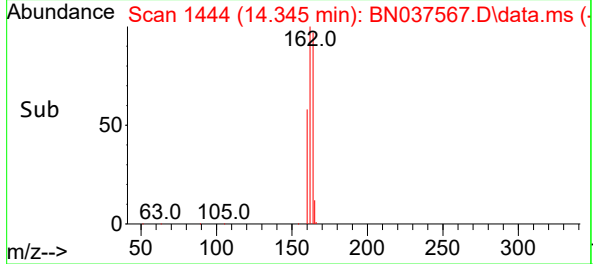
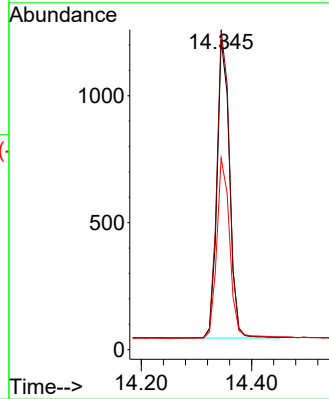
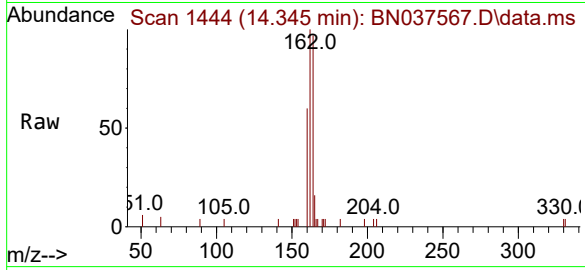




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

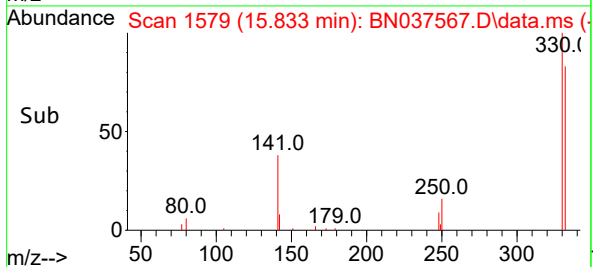
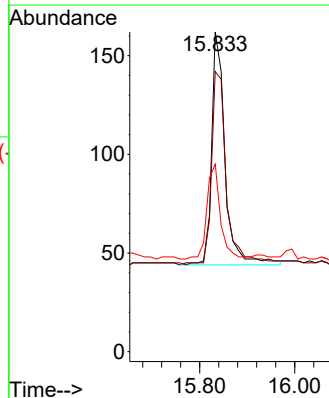
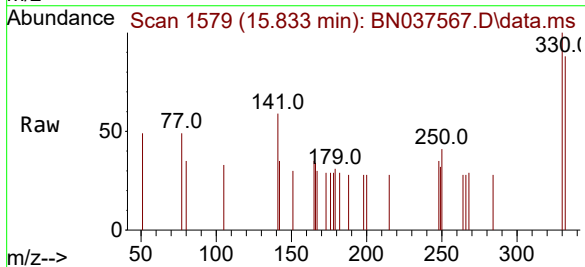
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

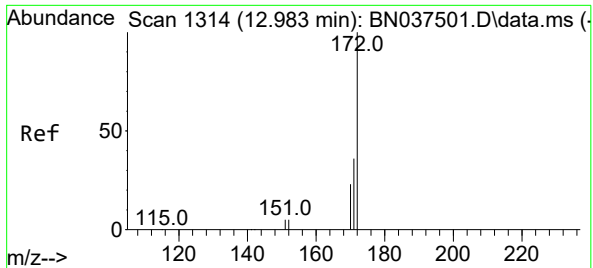
Tgt Ion:164 Resp: 1850
Ion Ratio Lower Upper
164 100
162 103.2 82.0 123.0
160 61.8 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.255 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:330 Resp: 232
Ion Ratio Lower Upper
330 100
332 92.7 76.1 114.1
141 40.9 33.4 50.0

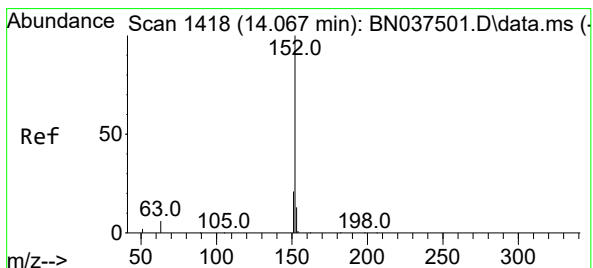
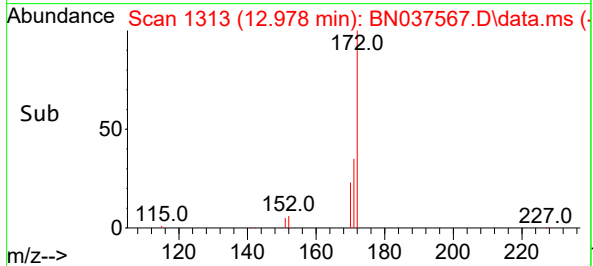
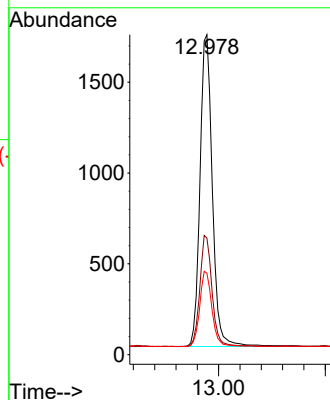
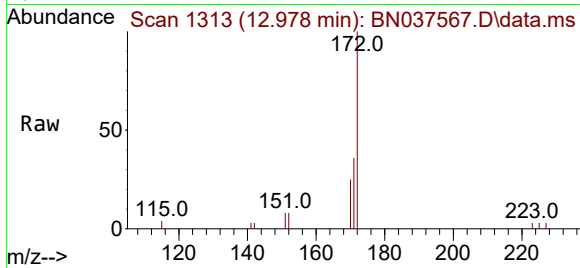




#15
2-Fluorobiphenyl
Concen: 0.402 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

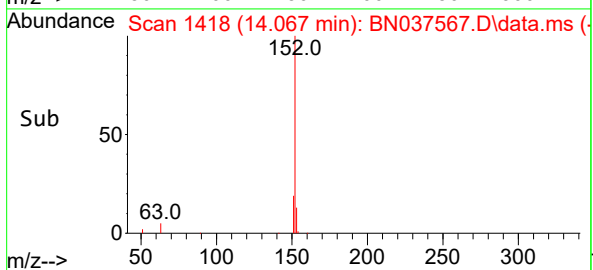
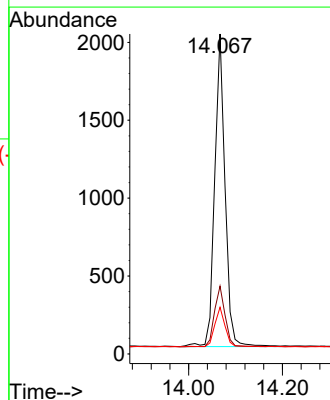
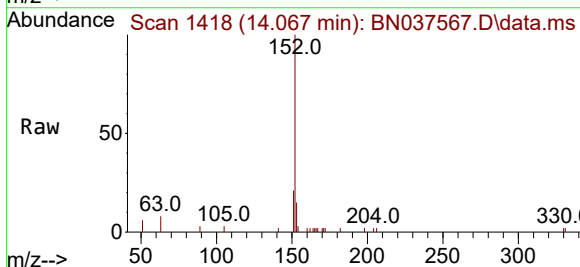
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

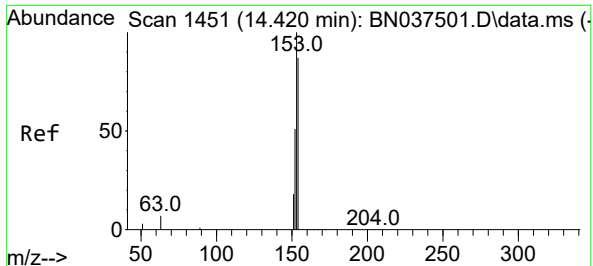
Tgt Ion:	172	Resp:	3867
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.4	44.2
170	25.4	19.4	29.0



#16
Acenaphthylene
Concen: 0.371 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:	152	Resp:	3078
Ion Ratio	Lower	Upper	
152	100		
151	20.1	15.9	23.9
153	12.5	10.7	16.1





#17

Acenaphthene

Concen: 0.331 ng

RT: 14.409 min Scan# 1450

Delta R.T. -0.011 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

Instrument :

BNA_N

ClientSampleId :

PB169094BSD

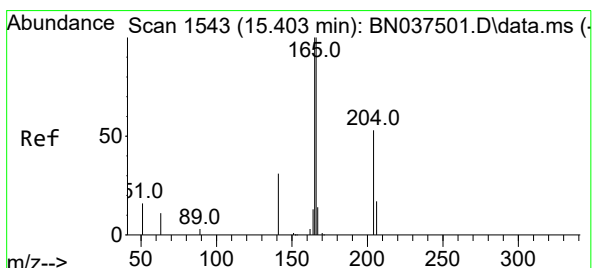
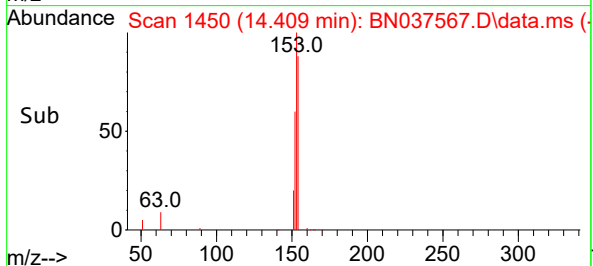
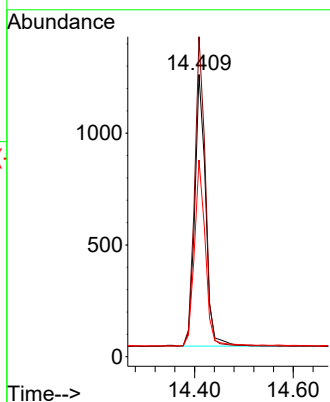
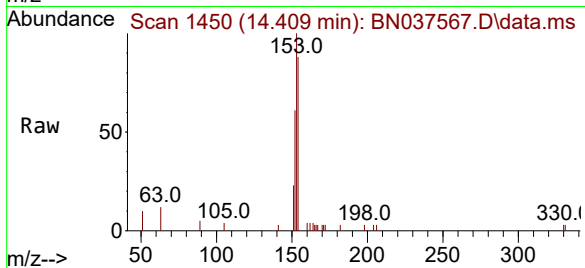
Tgt Ion:154 Resp: 1863

Ion Ratio Lower Upper

154 100

153 111.5 89.2 133.8

152 69.2 48.0 72.0



#18

Fluorene

Concen: 0.320 ng

RT: 15.403 min Scan# 1543

Delta R.T. 0.000 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

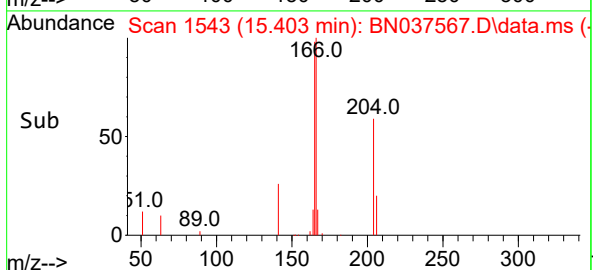
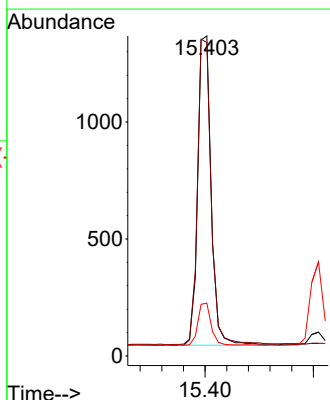
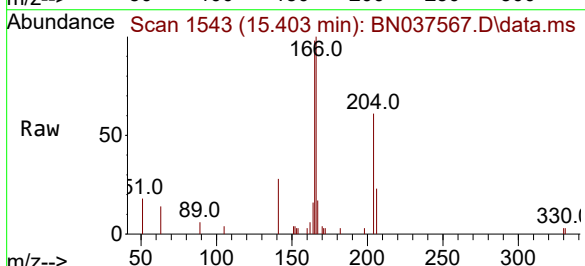
Tgt Ion:166 Resp: 2324

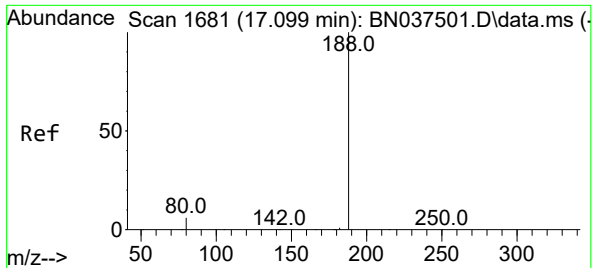
Ion Ratio Lower Upper

166 100

165 99.1 78.1 117.1

167 13.1 11.0 16.6

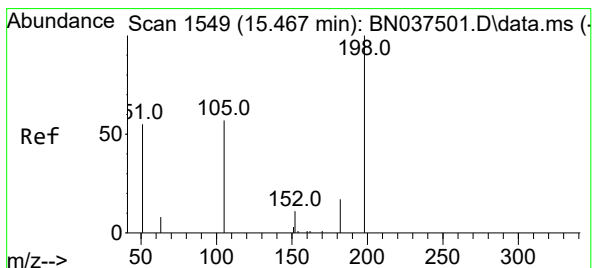
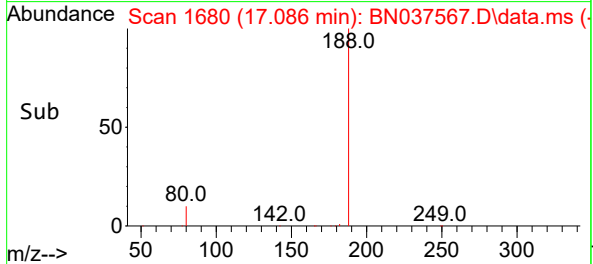
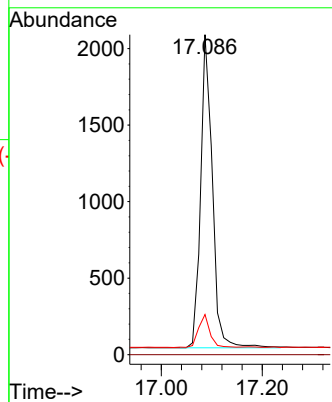
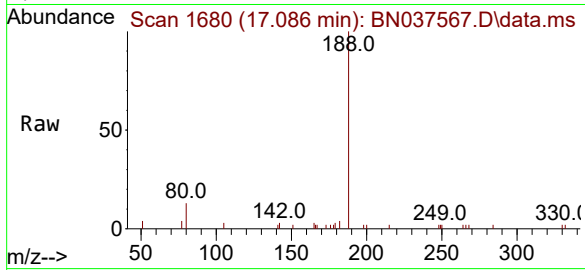




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

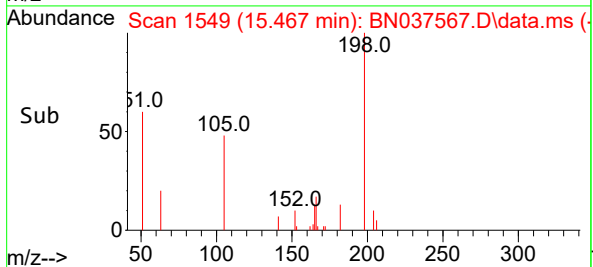
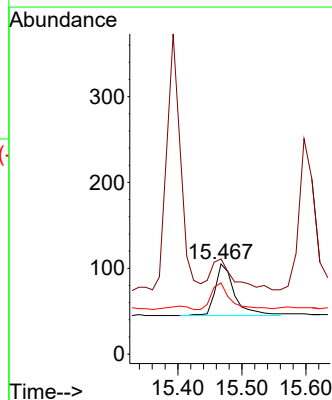
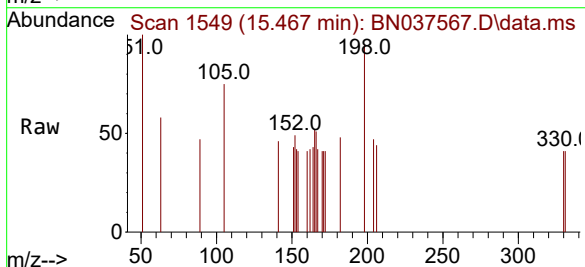
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

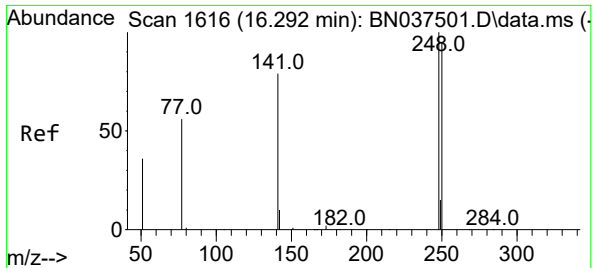
Tgt Ion:188 Resp: 3303
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.5 6.0 9.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.379 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:198 Resp: 129
Ion Ratio Lower Upper
198 100
51 105.7 88.5 132.7
105 79.0 61.2 91.8

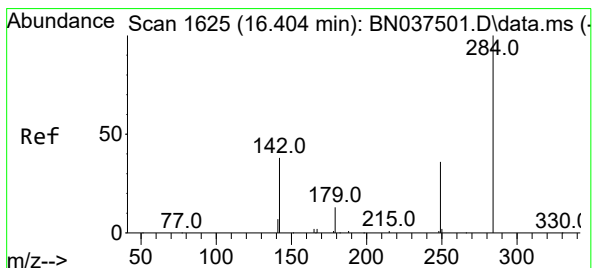
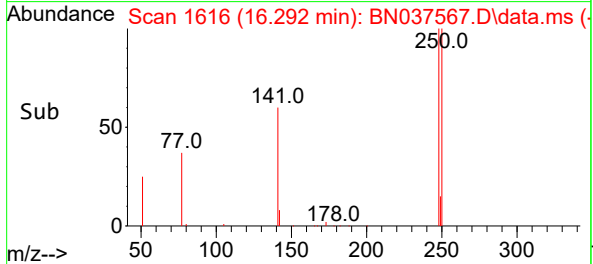
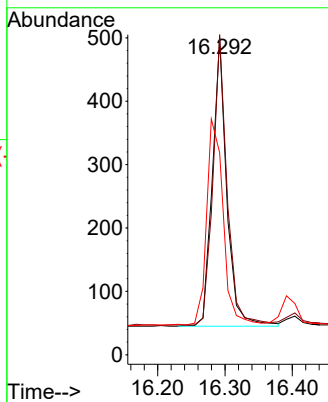
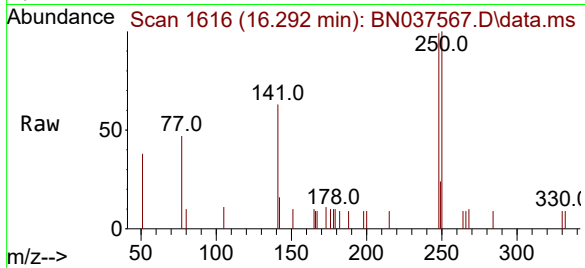




#21
4-Bromophenyl-phenylether
Concen: 0.321 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

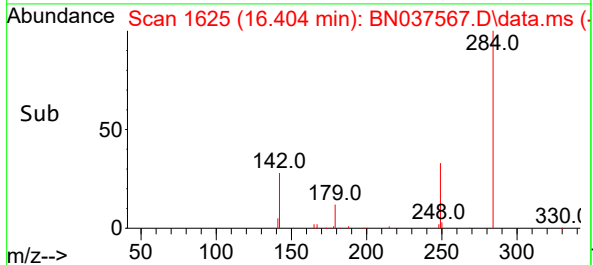
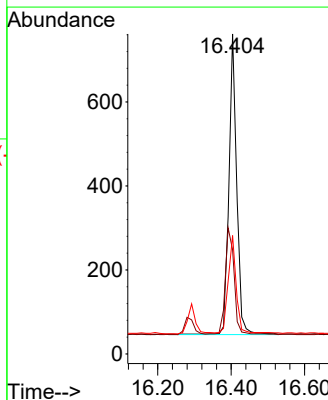
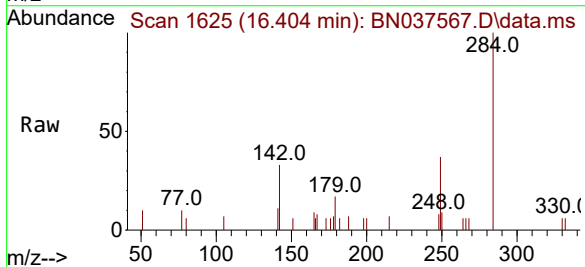
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

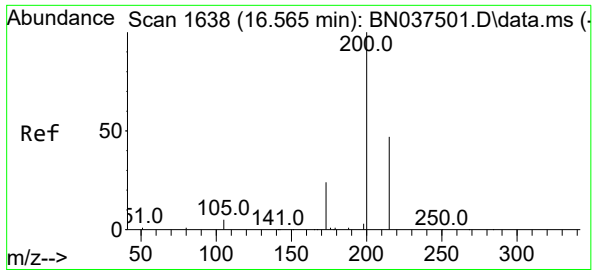
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	76.2	114.2
141	63.7	63.9	95.9



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.3	28.9	43.3
249	32.4	25.8	38.6

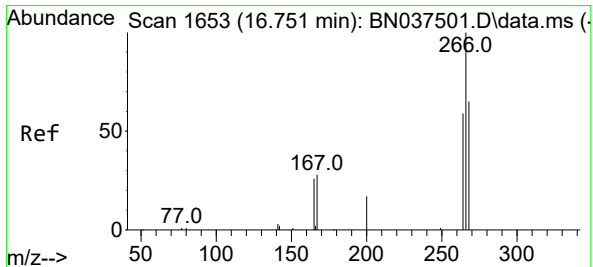
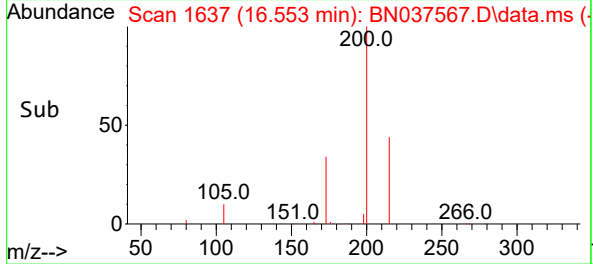
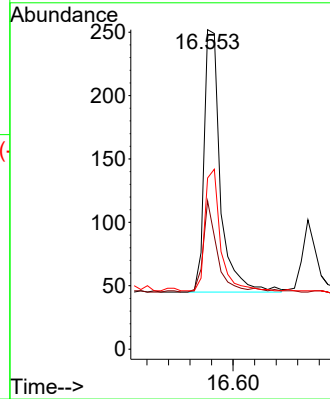
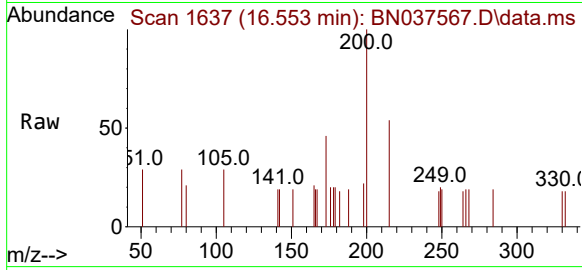




#23
Atrazine
Concen: 0.294 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

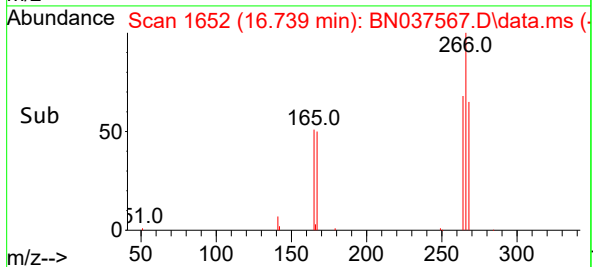
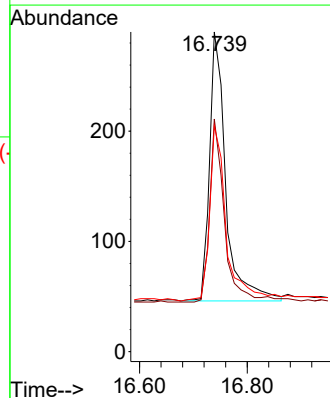
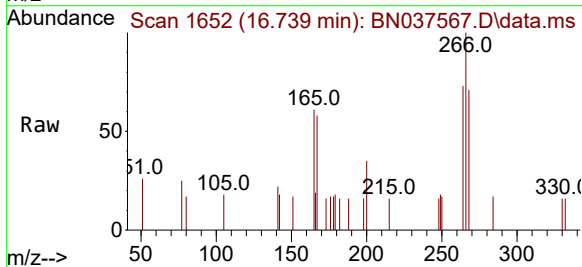
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

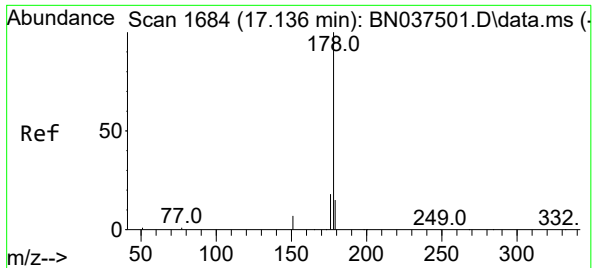
Tgt Ion:200 Resp: 434
Ion Ratio Lower Upper
200 100
173 46.4 23.2 34.8#
215 53.6 40.2 60.4



#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:266 Resp: 509
Ion Ratio Lower Upper
266 100
264 62.7 49.3 73.9
268 69.0 51.6 77.4

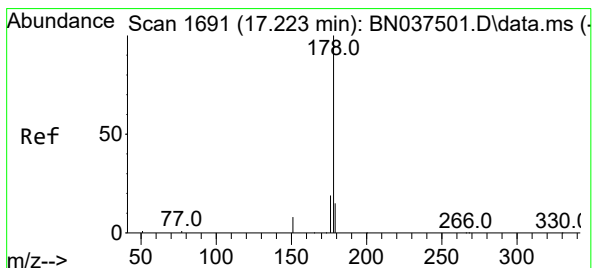
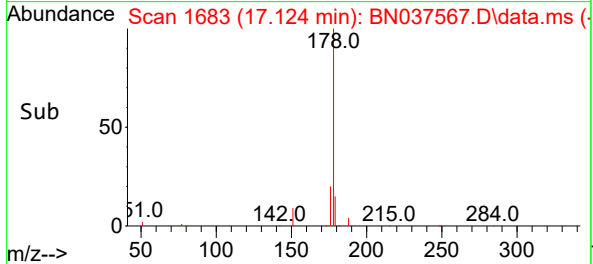
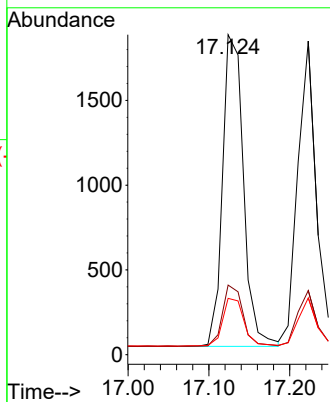
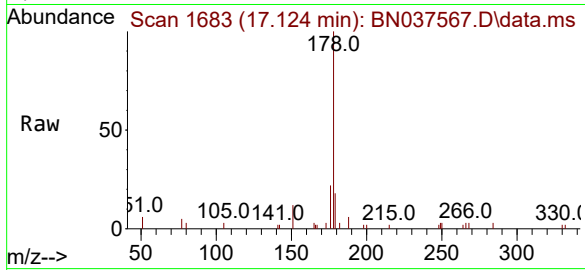




#25
Phenanthrene
Concen: 0.335 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

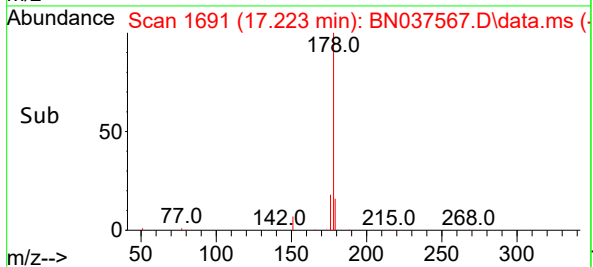
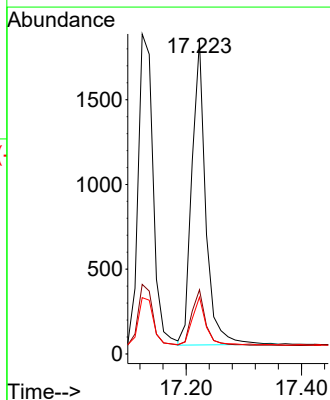
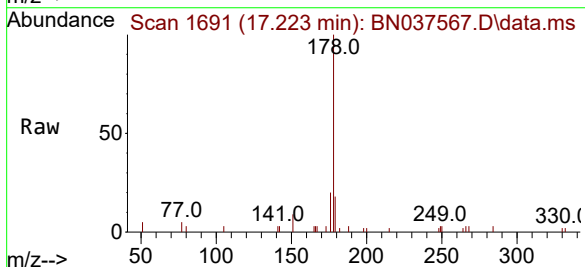
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

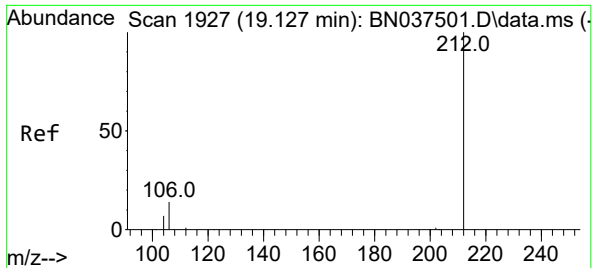
Tgt Ion:178 Resp: 3319
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.332 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:178 Resp: 3000
Ion Ratio Lower Upper
178 100
176 18.1 14.7 22.1
179 15.4 12.3 18.5

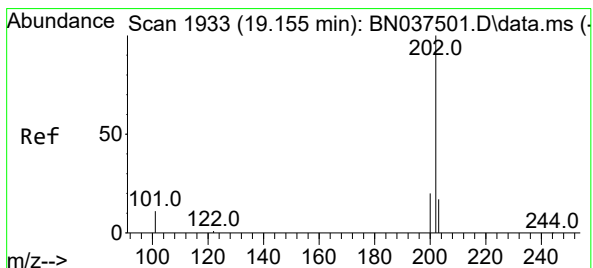
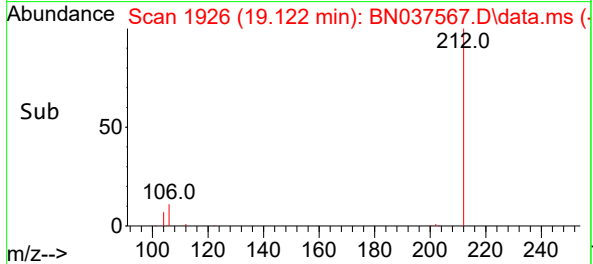
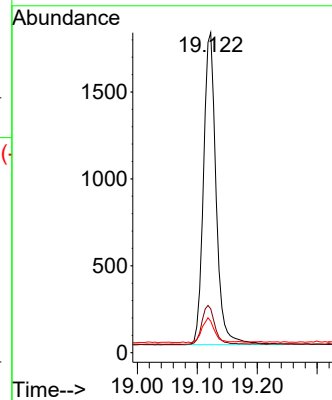
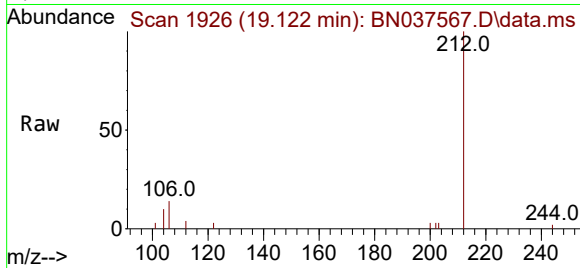




#27
Fluoranthene-d10
Concen: 0.300 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

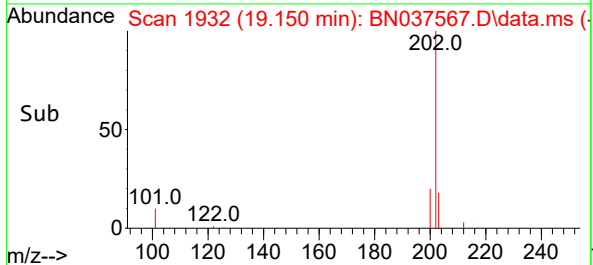
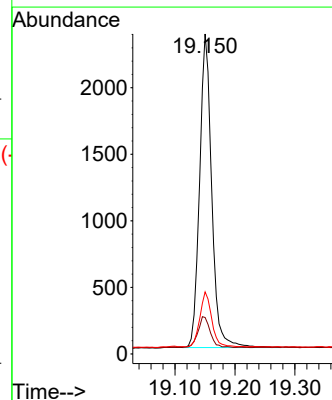
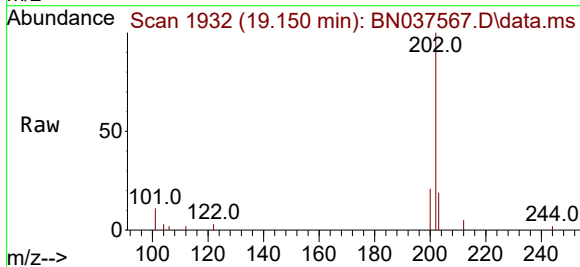
Instrument :
BNA_N
ClientSampleId :
PB169094BSD

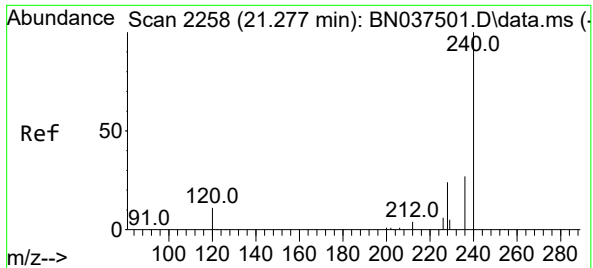
Tgt Ion	Ratio	Lower	Upper
212	100		
106	12.9	12.2	18.4
104	7.8	6.7	10.1



#28
Fluoranthene
Concen: 0.290 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.8	9.8	14.6
203	17.2	13.6	20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

Instrument :

BNA_N

ClientSampleId :

PB169094BSD

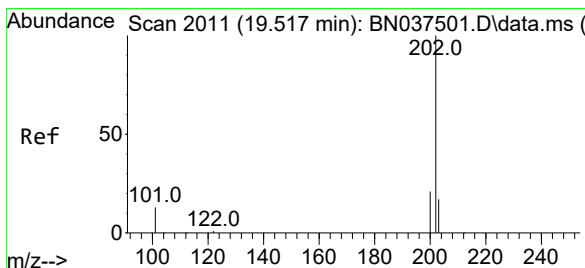
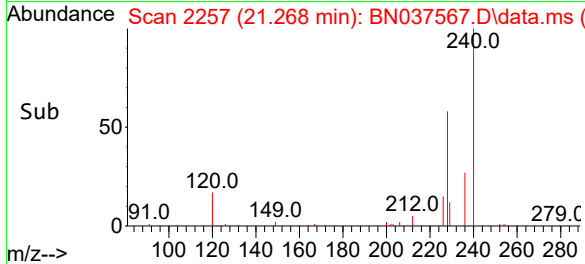
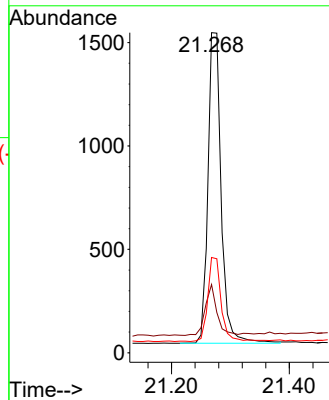
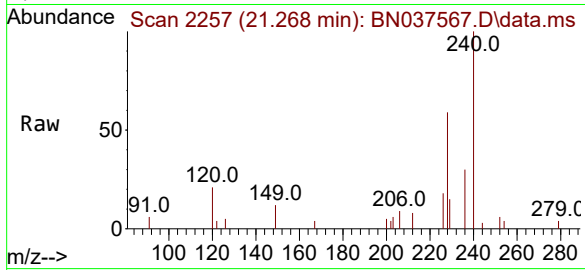
Tgt Ion:240 Resp: 2343

Ion Ratio Lower Upper

240 100

120 21.3 10.7 16.1#

236 29.8 22.6 33.8



#30

Pyrene

Concen: 0.337 ng

RT: 19.513 min Scan# 2010

Delta R.T. -0.005 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

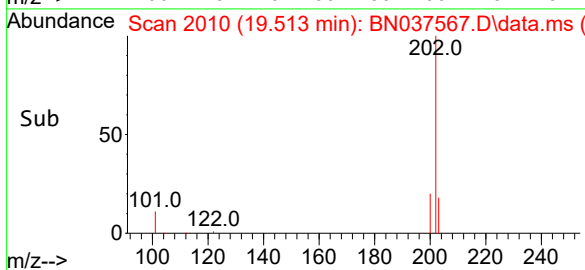
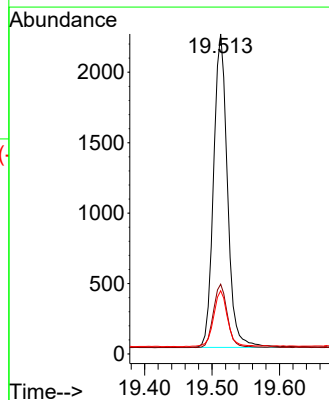
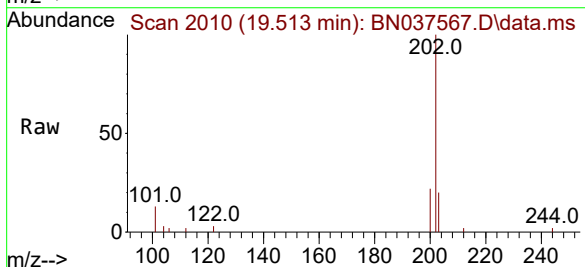
Tgt Ion:202 Resp: 3180

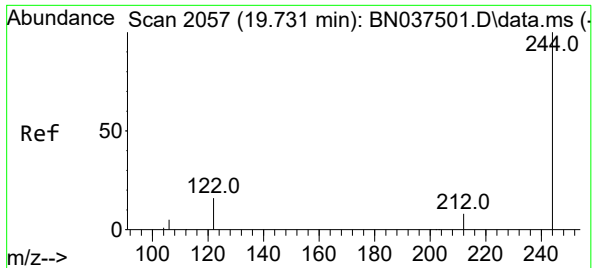
Ion Ratio Lower Upper

202 100

200 20.3 16.5 24.7

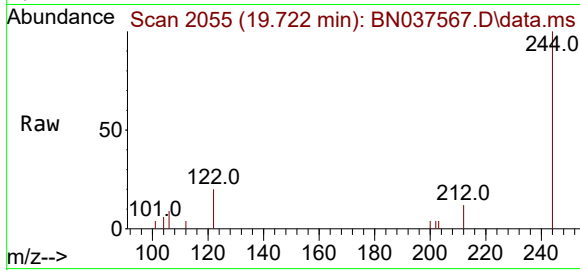
203 17.9 14.3 21.5



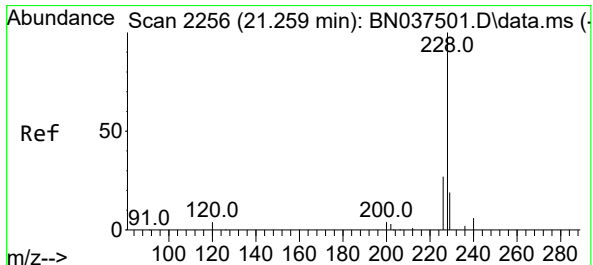
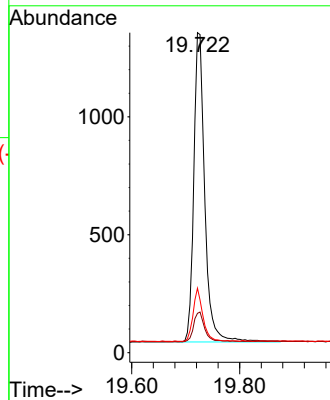
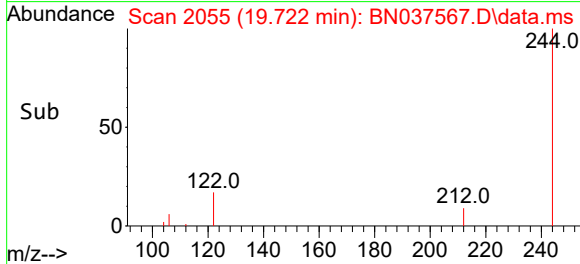


#31
Terphenyl-d14
Concen: 0.369 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.009 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Instrument :
BNA_N
ClientSampleId :
PB169094BSD

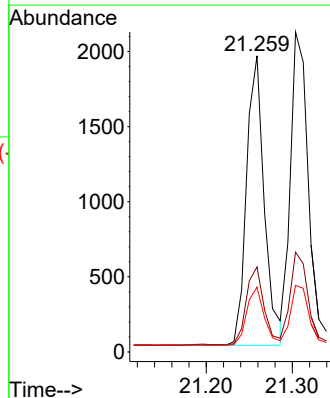
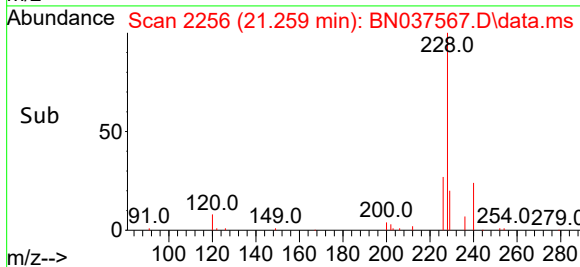
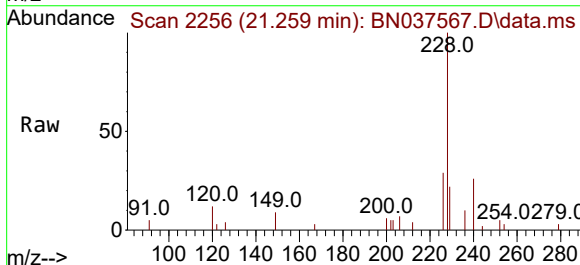


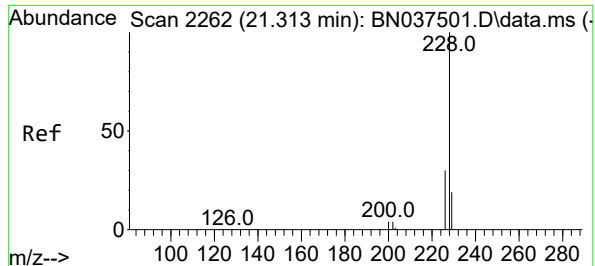
Tgt Ion:244 Resp: 1858
Ion Ratio Lower Upper
244 100
212 12.3 7.4 11.2#
122 20.1 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.337 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Tgt Ion:228 Resp: 2765
Ion Ratio Lower Upper
228 100
226 28.8 21.9 32.9
229 21.9 15.8 23.8





#33

Chrysene

Concen: 0.364 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

Instrument :

BNA_N

ClientSampleId :

PB169094BSD

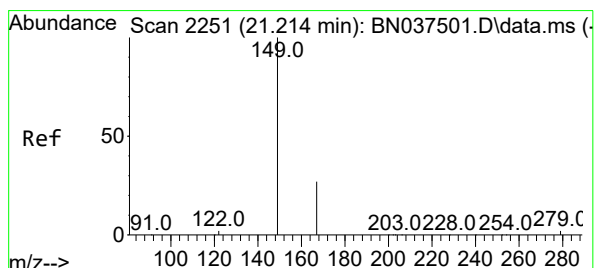
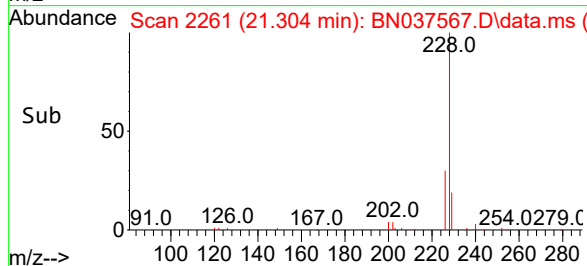
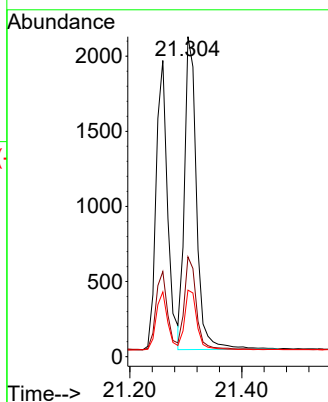
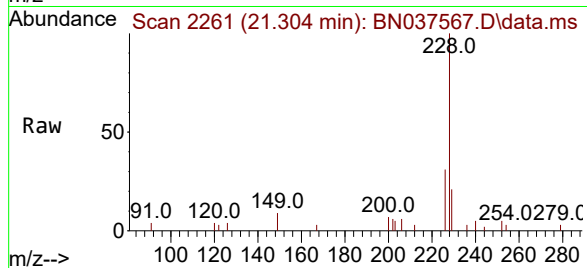
Tgt Ion:228 Resp: 3113

Ion Ratio Lower Upper

228 100

226 31.2 24.2 36.4

229 20.8 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.298 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.009 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

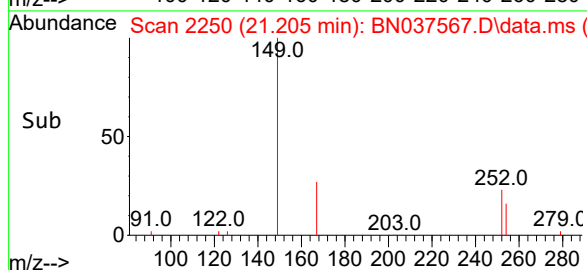
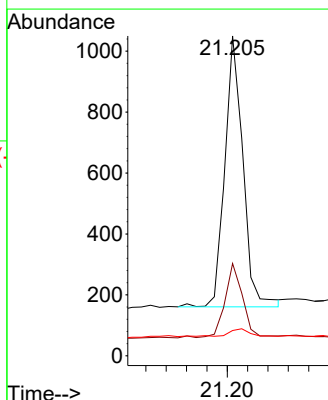
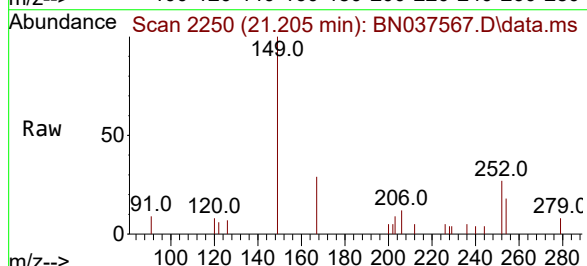
Tgt Ion:149 Resp: 1100

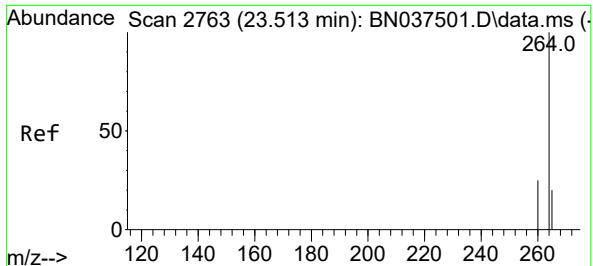
Ion Ratio Lower Upper

149 100

167 27.0 21.8 32.8

279 3.5 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037567.D

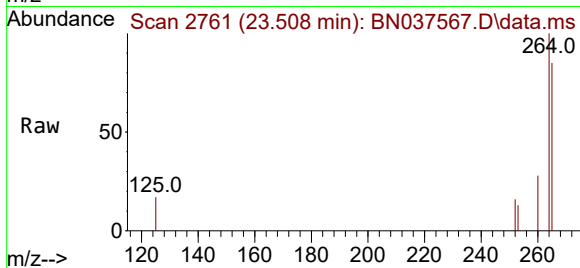
Acq: 05 Aug 2025 14:23

Instrument :

BNA_N

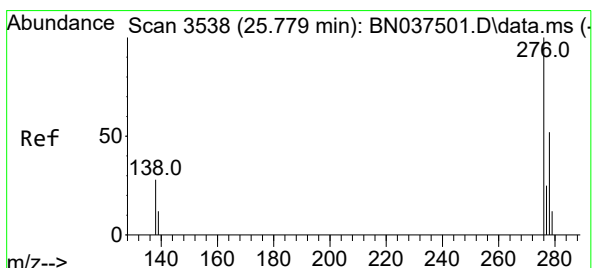
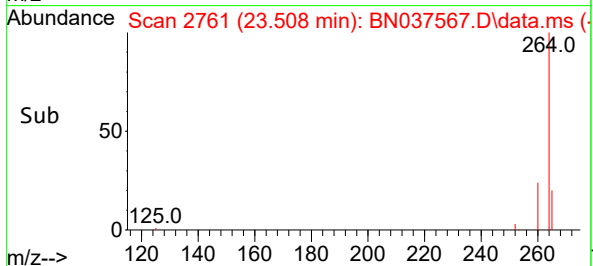
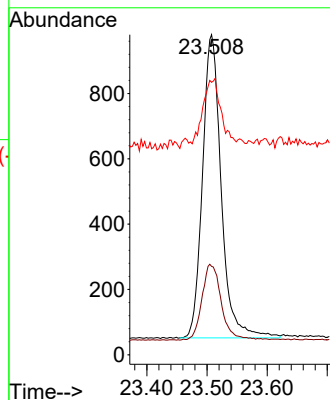
ClientSampleId :

PB169094BSD



Tgt Ion:264 Resp: 2004

Ion	Ratio	Lower	Upper
264	100		
260	27.7	21.2	31.8
265	85.1	40.4	60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.362 ng

RT: 25.770 min Scan# 3535

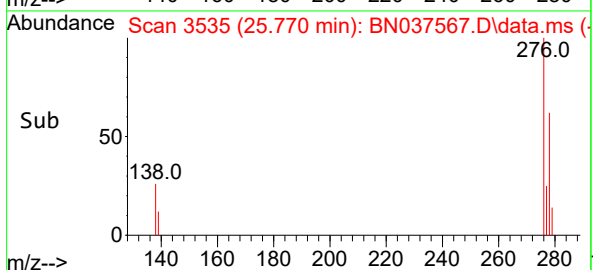
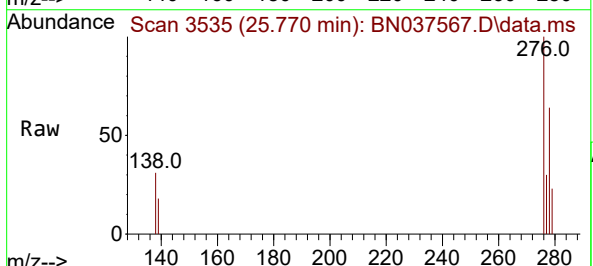
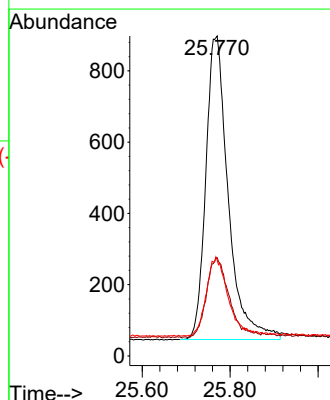
Delta R.T. -0.009 min

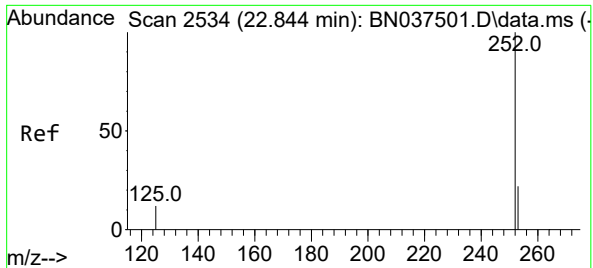
Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

Tgt Ion:276 Resp: 3023

Ion	Ratio	Lower	Upper
276	100		
138	26.6	24.0	36.0
277	24.2	20.5	30.7





#37

Benzo(b)fluoranthene

Concen: 0.364 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.009 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

Instrument :

BNA_N

ClientSampleId :

PB169094BSD

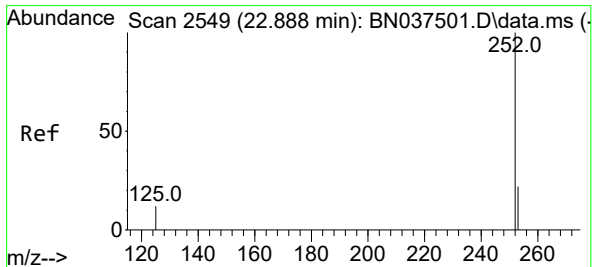
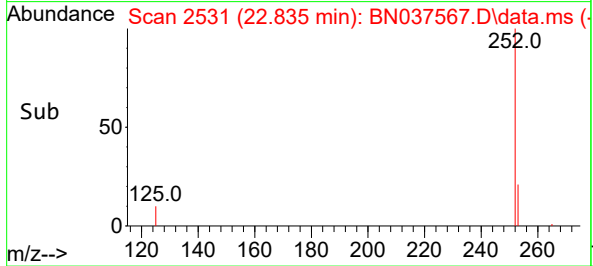
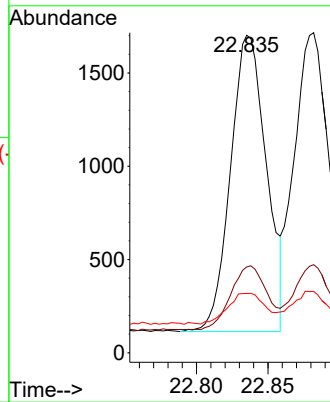
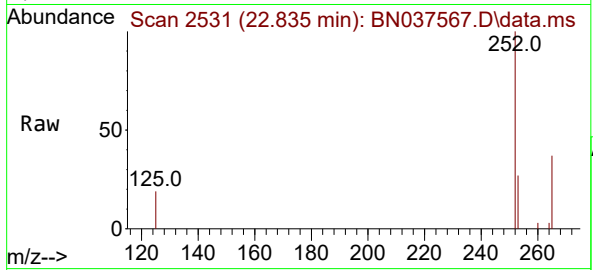
Tgt Ion:252 Resp: 2770

Ion Ratio Lower Upper

252 100

253 27.0 19.5 29.3

125 18.7 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.363 ng

RT: 22.882 min Scan# 2547

Delta R.T. -0.006 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

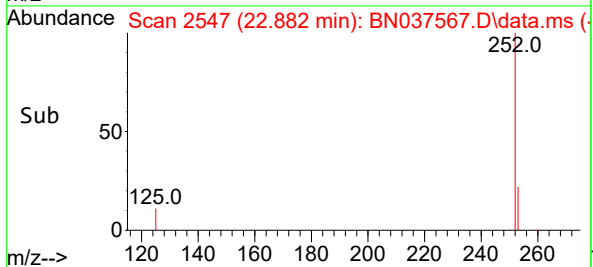
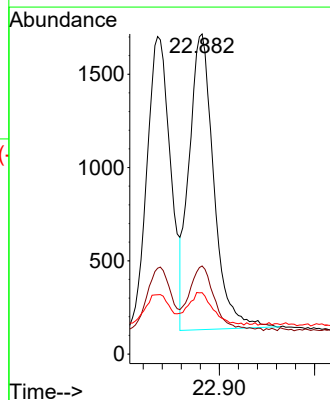
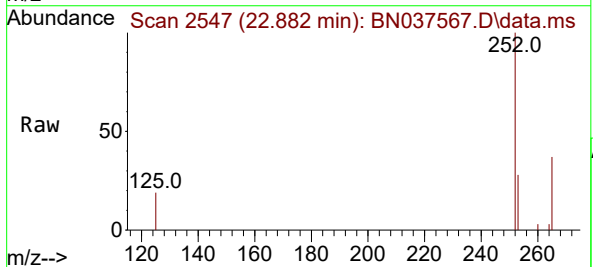
Tgt Ion:252 Resp: 2847

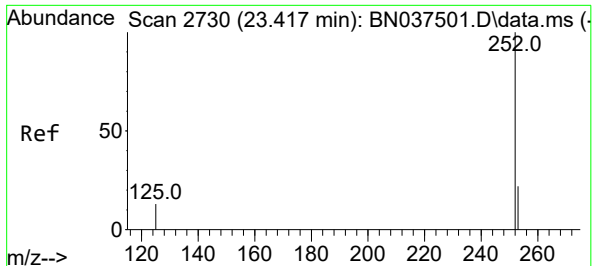
Ion Ratio Lower Upper

252 100

253 27.5 19.5 29.3

125 19.2 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

Instrument :

BNA_N

ClientSampleId :

PB169094BSD

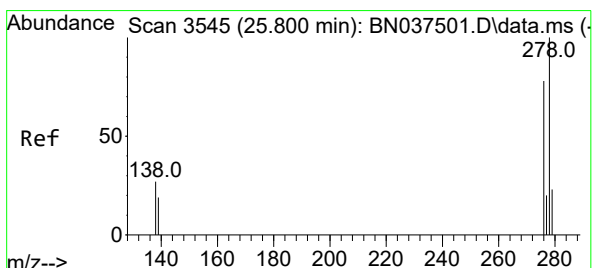
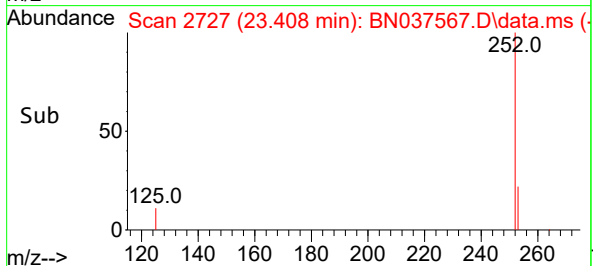
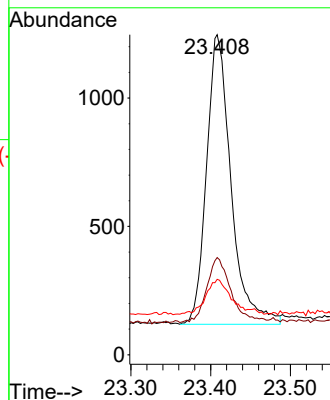
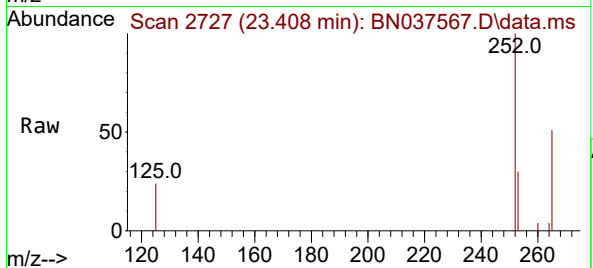
Tgt Ion:252 Resp: 2409

Ion Ratio Lower Upper

252 100

253 30.4 19.9 29.9#

125 23.6 15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.346 ng

RT: 25.785 min Scan# 3540

Delta R.T. -0.015 min

Lab File: BN037567.D

Acq: 05 Aug 2025 14:23

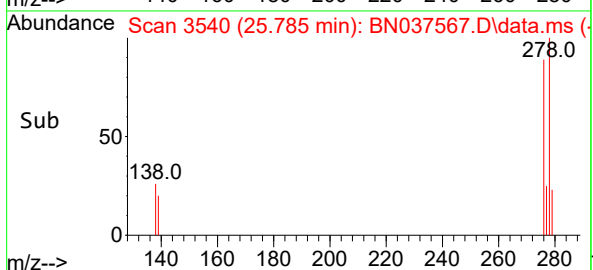
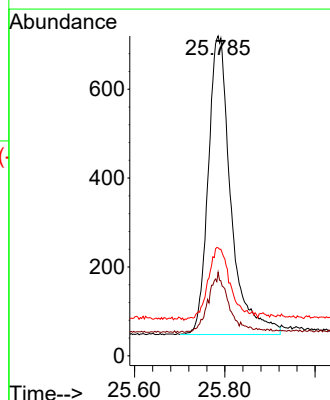
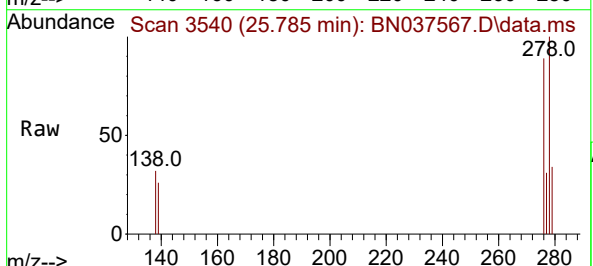
Tgt Ion:278 Resp: 2339

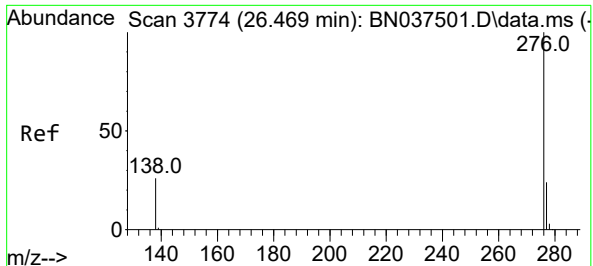
Ion Ratio Lower Upper

278 100

139 26.1 17.5 26.3

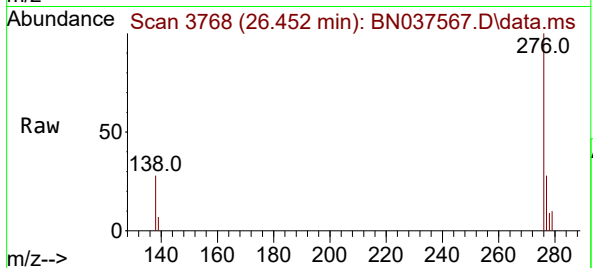
279 33.8 21.3 31.9#



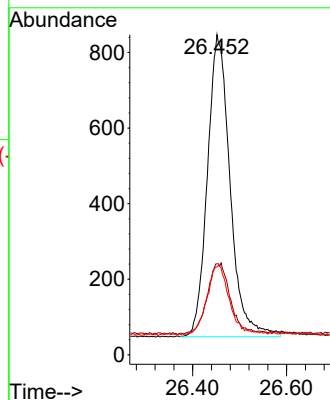
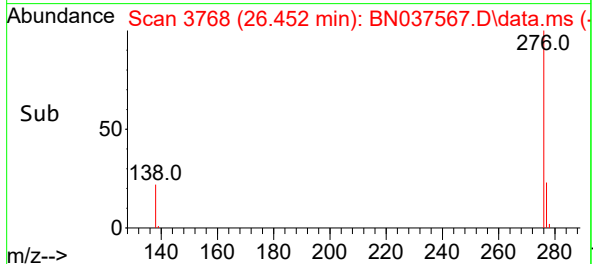


#41
Benzo(g,h,i)perylene
Concen: 0.382 ng
RT: 26.452 min Scan# 31
Delta R.T. -0.018 min
Lab File: BN037567.D
Acq: 05 Aug 2025 14:23

Instrument :
BNA_N
ClientSampleId :
PB169094BSD



Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.5	20.9	31.3
138	27.5	22.6	33.8





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

Manual Integration Report

Sequence:	BN071525	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason



Manual Integration Report

Sequence:	BN080525	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN071525

Review By	Rahul	Review On	7/16/2025 11:47:41 AM
Supervise By	Jagrut	Supervise On	7/16/2025 12:31:26 PM
SubDirectory	BN071525	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN071525
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	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037497.D	15 Jul 2025 10:57	RC/JU	Ok
2	SSTDCCC0.4	BN037498.D	15 Jul 2025 11:37	RC/JU	Not Ok
3	SSTDICC0.1	BN037499.D	15 Jul 2025 12:36	RC/JU	Ok
4	SSTDICC0.2	BN037500.D	15 Jul 2025 13:12	RC/JU	Ok
5	SSTDICCC0.4	BN037501.D	15 Jul 2025 13:49	RC/JU	Ok
6	SSTDICC0.8	BN037502.D	15 Jul 2025 14:25	RC/JU	Ok
7	SSTDICC1.6	BN037503.D	15 Jul 2025 15:01	RC/JU	Ok
8	SSTDICC3.2	BN037504.D	15 Jul 2025 15:38	RC/JU	Ok
9	SSTDICC5.0	BN037505.D	15 Jul 2025 16:14	RC/JU	Ok
10	SSTDICV0.4	BN037506.D	15 Jul 2025 16:58	RC/JU	Ok
11	PB168696BL	BN037507.D	15 Jul 2025 17:34	RC/JU	Ok
12	SSTDCCC0.4	BN037508.D	15 Jul 2025 18:11	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080525

Review By	Rahul	Review On	8/6/2025 10:19:05 AM
Supervise By	Jagrut	Supervise On	8/6/2025 4:11:35 PM
SubDirectory	BN080525	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN071525
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037558.D	05 Aug 2025 08:56	RC/JU	Ok
2	SSTDCCC0.4	BN037559.D	05 Aug 2025 09:35	RC/JU	Ok
3	PB169094BL	BN037560.D	05 Aug 2025 10:11	RC/JU	Ok
4	Q2745-01	BN037561.D	05 Aug 2025 10:47	RC/JU	Ok
5	Q2745-02	BN037562.D	05 Aug 2025 11:23	RC/JU	Ok
6	Q2746-01	BN037563.D	05 Aug 2025 11:59	RC/JU	Ok
7	Q2746-02	BN037564.D	05 Aug 2025 12:35	RC/JU	Ok
8	Q2746-03	BN037565.D	05 Aug 2025 13:11	RC/JU	Ok
9	PB169094BS	BN037566.D	05 Aug 2025 13:47	RC/JU	Ok
10	PB169094BSD	BN037567.D	05 Aug 2025 14:23	RC/JU	Ok
11	SSTDCCC0.4	BN037568.D	05 Aug 2025 15:03	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN071525

Review By	Rahul	Review On	7/16/2025 11:47:41 AM
Supervise By	Jagrut	Supervise On	7/16/2025 12:31:26 PM
SubDirectory	BN071525	HP Acquire Method	BNA_N, 8270_HP Processing Method BN071525

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	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037497.D	15 Jul 2025 10:57		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037498.D	15 Jul 2025 11:37	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037499.D	15 Jul 2025 12:36		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037500.D	15 Jul 2025 13:12		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037501.D	15 Jul 2025 13:49	Compound #20 kept on QR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037502.D	15 Jul 2025 14:25		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037503.D	15 Jul 2025 15:01		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037504.D	15 Jul 2025 15:38		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037505.D	15 Jul 2025 16:14		RC/JU	Ok
10	SSTDICV0.4	ICVBN071525	BN037506.D	15 Jul 2025 16:58		RC/JU	Ok
11	PB168696BL	PB168696BL	BN037507.D	15 Jul 2025 17:34		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037508.D	15 Jul 2025 18:11		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080525

Review By	Rahul	Review On	8/6/2025 10:19:05 AM
Supervise By	Jagrut	Supervise On	8/6/2025 4:11:35 PM
SubDirectory	BN080525	HP Acquire Method	BNA_N, 8270_HP Processing Method BN071525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037558.D	05 Aug 2025 08:56		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037559.D	05 Aug 2025 09:35		RC/JU	Ok
3	PB169094BL	PB169094BL	BN037560.D	05 Aug 2025 10:11		RC/JU	Ok
4	Q2745-01	RW8-SP100-20250731	BN037561.D	05 Aug 2025 10:47		RC/JU	Ok
5	Q2745-02	RW8-SP303-20250731	BN037562.D	05 Aug 2025 11:23		RC/JU	Ok
6	Q2746-01	RW7-SP100-20250731	BN037563.D	05 Aug 2025 11:59		RC/JU	Ok
7	Q2746-02	RW7-SP201-20250731	BN037564.D	05 Aug 2025 12:35		RC/JU	Ok
8	Q2746-03	RW7-SP303-20250731	BN037565.D	05 Aug 2025 13:11		RC/JU	Ok
9	PB169094BS	PB169094BS	BN037566.D	05 Aug 2025 13:47		RC/JU	Ok
10	PB169094BSD	PB169094BSD	BN037567.D	05 Aug 2025 14:23		RC/JU	Ok
11	SSTDCCC0.4	SSTDCCC0.4EC	BN037568.D	05 Aug 2025 15:03		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A **Extraction Start Date :** 08/04/2025

Matrix : Water **Extraction Start Time :** 08:40

Welgh By: N/A **Extraction By:** RS **Extraction End Date :** 08/04/2025

Balance check: N/A **Filter By:** RJ **Extraction End Time :** 13:45

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** RS

pH Strip Lot#: E3880 **Hood ID:** 4,6,7 **Supervisor By :** RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continious 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	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3954
Baked Na2SO4	N/A	EP2629
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
8/4/25	RS (Ext Lab)	Rc/sur
13:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 08/04/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169094BL	SBLK094	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			SEP-1
PB169094BS	SLCS094	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			2
PB169094BS D	SLCSD094	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			3
Q2745-01	RW8-SP100-20250731	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	B		4
Q2745-02	RW8-SP303-20250731	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	D		5
Q2746-01	RW7-SP100-20250731	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			6
Q2746-02	RW7-SP201-20250731	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			7
Q2746-03	RW7-SP303-20250731	SVOC-SIMGrou p1	970	6	RUPEsh	ritesh	1			8

[Handwritten signature]

RS
8/4

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2745 WorkList ID : 191083 Department : Extraction Date : 08-04-2025 08:35:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2745-01	RW8-SP100-20250731	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O41	07/31/2025	8270-Modified
Q2745-02	RW8-SP303-20250731	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O41	07/31/2025	8270-Modified
Q2746-01	RW7-SP100-20250731	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A43	07/31/2025	8270-Modified
Q2746-02	RW7-SP201-20250731	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A43	07/31/2025	8270-Modified
Q2746-03	RW7-SP303-20250731	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A43	07/31/2025	8270-Modified

Date/Time 8/4/25 8:35
Raw Sample Received by: RS (Ext-66)
Raw Sample Relinquished by: SA SH

Date/Time 8/4/25 9:15
Raw Sample Received by: SA SH
Raw Sample Relinquished by: RS (Ext-66)

Prep Standard - Chemical Standard Summary

Order ID : Q2746
Test : SVOC-SIMGroup1
Prepbatch ID : PB169094,
Sequence ID/Qc Batch ID: BN080525,

Standard ID :
EP2609,EP2610,EP2629,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP684
8,SP6853,SP6854,SP6855,

Chemical ID :
1ul/100ul
sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3954,M6157,S10105,S 11073,S11496,S11652,S11807,S118
28,S12115,S12195,S12197,S12216,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W 3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2629	07/28/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 07/28/2025

FROM 4000.00000gram of E3875 = 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>
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>
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

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	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = 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	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
FROM 0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 / RUPESH	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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

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	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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25B1862001	03/19/2026	07/14/2025 / RUPESH	06/11/2025 / RUPESH	E3954

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

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	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

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 #
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	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

CHEMICAL RECEIPT LOG BOOK

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 #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

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	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12498

[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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	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	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	09/30/2025	06/04/2025 / Jagrut	12/11/2024 / anahy	S12986

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 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

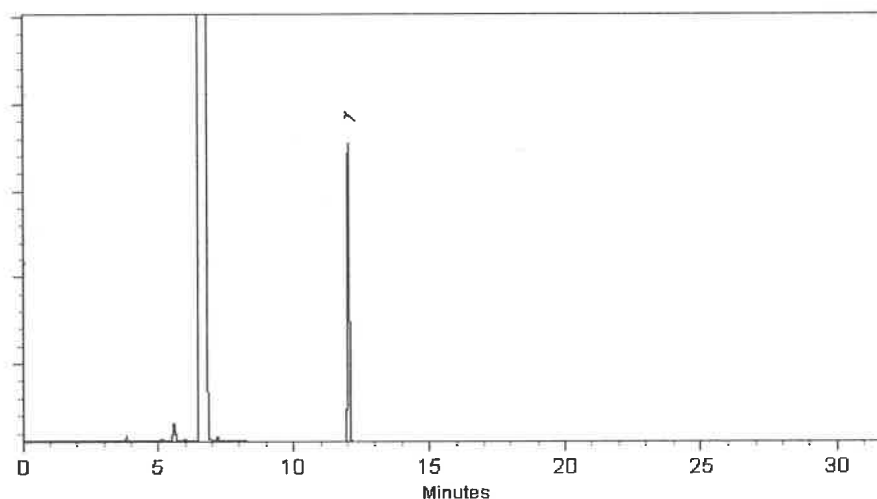
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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.

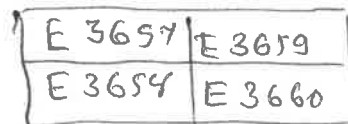
This document has been electronically produced and is valid without a signature.

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.





**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

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TEL +52 81 13 52 67 67
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

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

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected 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

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

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_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

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25B1862001
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/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

RS
7/14/25

E3954

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



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Santa Rosa, CA 95403

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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
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** 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:

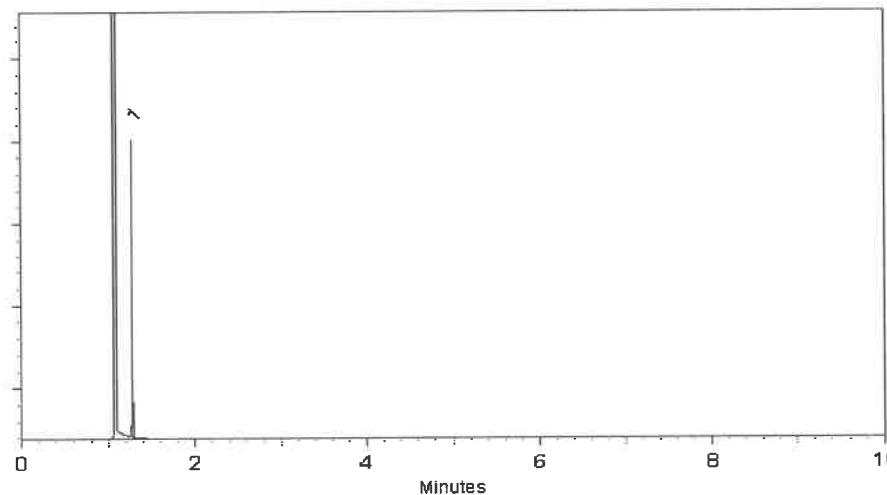
FID

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

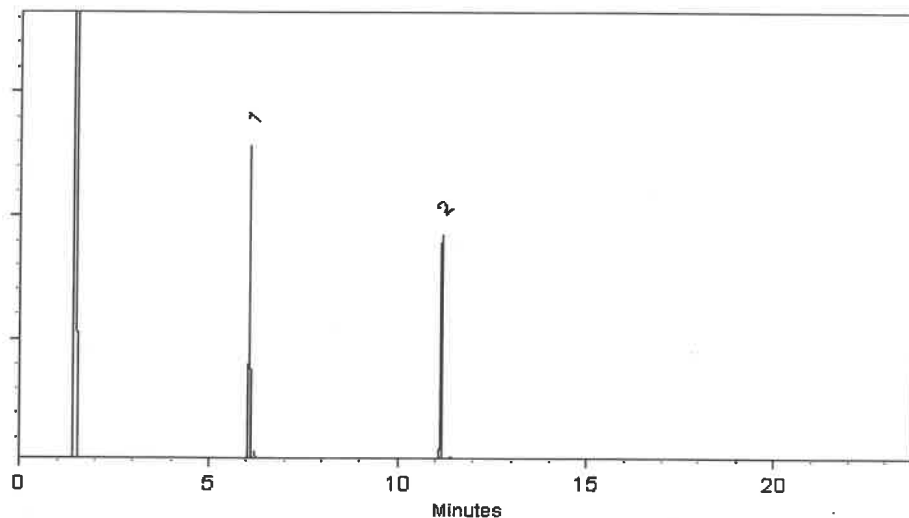
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

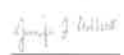


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

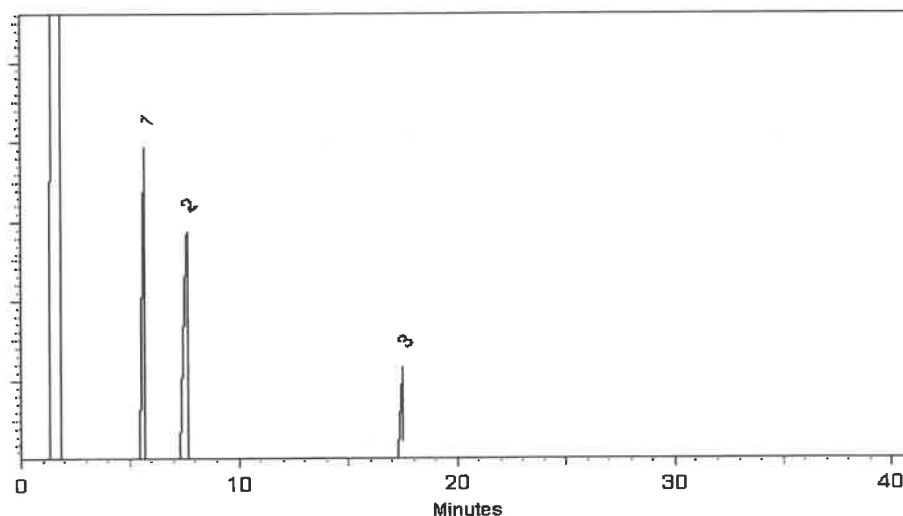
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

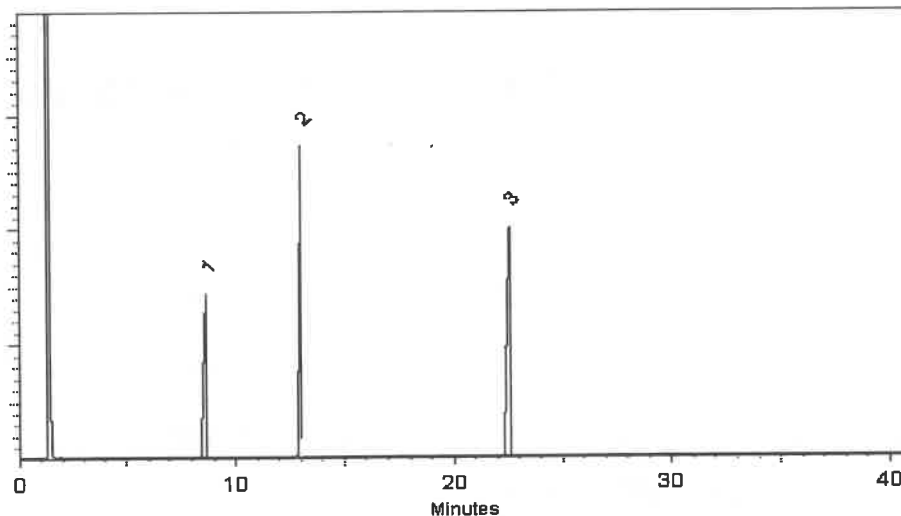
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

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Rev 0

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By:

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Catalog No. : 31615 **Lot No.:** A0212955
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577
↓
S12579 } RC
8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

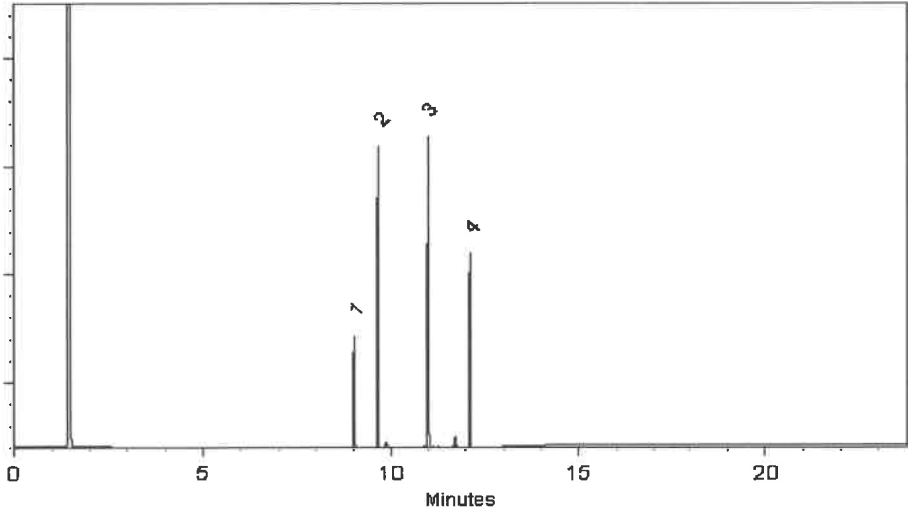
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

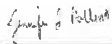
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Bellefonte, PA 16823-8812
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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** 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 } AC
↓
S12674 } 10/1/24



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** 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

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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: Q 2746	
				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: RW7B		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 SIM	
				PRESERVATIVES	
				COMMENTS	
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP GRAB	SAMPLE COLLECTION DATE TIME	# of Bottles
1.	RW7-SP100-20250731	GW		7/31/25 12:15	1
2.	RW7-SP201-20250731	GW		7/31/25 12:17	1
3.	RW7-SP303-20250731	GW		7/31/25 12:29	1
4.					
5.					
6.					
7.					
8.					
9.					
10.					

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>1.9°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: <u>Y</u>		
1. <u>UHL</u>	<u>7/31/25 14:20</u>	<u>[Signature]</u>	Comments:		
RELINQUISHED BY	DATE/TIME	RECEIVED BY			
2. <u>FedEx</u>	<u>1005 8-1-25</u>	<u>[Signature]</u>			
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