

Cover Page

Order ID : Q2604

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2604-01
Q2604-02

Client Sample Number

RW8-SP100-20250711
RW8-SP303-20250711

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: 7/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Erine Wu

Order ID # Q2604

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 07/15/2025.

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.

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 met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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

The Sample RW8-SP100-20250711 has the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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



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

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: Q2604

MATRIX: Water

METHOD: 8270-Modified/3510

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

(CONTINUED)

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
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 Sample RW8-SP100-20250711 has the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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 #: Q2604

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 07/25/2025

LAB CHRONICLE

OrderID:	Q2604	OrderDate:	7/15/2025 10:29:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	O11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2604-01	RW8-SP100-2025071 1	Water			07/11/25			07/15/25
			SVOC-SIMGroup1	8270-Modified		07/15/25	07/16/25	
Q2604-02	RW8-SP303-2025071 1	Water			07/11/25			07/15/25
			SVOC-SIMGroup1	8270-Modified		07/15/25	07/16/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2604
Client: Tetra Tech NUS, Inc.

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



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2604

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168868BL	PB168868BL	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.37	91		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
PB168868BS	PB168868BS	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.31	79		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
PB168868BSD	PB168868BSD	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.30	76		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q2604-01	RW8-SP100-20250711	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.44	109		58	132
Q2604-02	RW8-SP303-20250711	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.53	131		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2604

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037516.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168868BS	1,4-Dioxane	0.4	0.31	ug/L	78				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2604

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037517.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB168868BSD	1,4-Dioxane	0.4	0.29	ug/L	73	7			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB168868BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2604

Lab File ID: BN037511.D

Lab Sample ID: PB168868BL

Instrument ID: BNA_N

Date Extracted: 07/15/2025

Matrix: (soil/water) Water

Date Analyzed: 07/16/2025

Level: (low/med) LOW

Time Analyzed: 10:27

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168868BS	PB168868BS	BN037516.D	07/16/2025
RW8-SP100-20250711	Q2604-01	BN037514.D	07/16/2025
RW8-SP303-20250711	Q2604-02	BN037515.D	07/16/2025
PB168868BSD	PB168868BSD	BN037517.D	07/16/2025

COMMENTS: _____



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

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.: Q2604
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



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037509.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2604
DFTPP Injection Date: 07/16/2025
DFTPP Injection Time: 09:11

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 (0.5) 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	6.8
365	Greater than 1% of mass 198	4.1
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	17.5 (17.9) 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	BN037510.D	07/16/2025	09:50
PB168868BL	PB168868BL	BN037511.D	07/16/2025	10:27
RW8-SP100-20250711	Q2604-01	BN037514.D	07/16/2025	12:16
RW8-SP303-20250711	Q2604-02	BN037515.D	07/16/2025	12:53
PB168868BS	PB168868BS	BN037516.D	07/16/2025	13:29
PB168868BSD	PB168868BSD	BN037517.D	07/16/2025	14:06
SSTDCCC0.4EC	SSTDCCC0.4	BN037518.D	07/16/2025	15:34

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2604

Client ID : SSTDCCC0.4

Date Analyzed: 07/16/2025

Lab File ID: BN037510.D

Time Analyzed: 09:50

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	2448	7.724	6343	10.51	3548	14.36
UPPER LIMIT	4896	8.224	12686	11.009	7096	14.855
LOWER LIMIT	1224	7.224	3171.5	10.009	1774	13.855
EPA SAMPLE NO.						
01 PB168868BL	3101	7.72	7573	10.51	3896	14.36
02 PB168868BS	1941	7.72	4724	10.51	2338	14.36
03 PB168868BSD	1974	7.72	4747	10.51	2348	14.36
04 RW8-SP100-20250711	1757	7.72	4258	10.51	2264	14.36
05 RW8-SP303-20250711	1670	7.73	3997	10.51	2071	14.36

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.: Q2604

Client ID: SSTDCCC0.4

Date Analyzed: 07/16/2025

Lab File ID: BN037510.D

Time Analyzed: 09:50

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	6984	17.086	5489	21.277	5154	23.513
UPPER LIMIT	13968	17.586	10978	21.777	10308	24.013
LOWER LIMIT	3492	16.586	2744.5	20.777	2577	23.013
EPA SAMPLE NO.						
01 PB168868BL	7545	17.10	5013	21.28	4525	23.51
02 PB168868BS	4406	17.10	3170	21.28	2673	23.52
03 PB168868BSD	4399	17.10	3154	21.28	2636	23.52
04 RW8-SP100-20250711	4524	17.10	3752	21.28	3699	23.52
05 RW8-SP303-20250711	4336	17.10	3975	21.28	3913	23.52

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/15/25
Client Sample ID:	RW8-SP100-20250711	SDG No.:	Q2604
Lab Sample ID:	Q2604-01	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
BN037514.D	1	07/15/25 11:40	07/16/25 12:16	PB168868

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		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	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	1760	7.724				
1146-65-2	Naphthalene-d8	4260	10.509				
15067-26-2	Acenaphthene-d10	2260	14.355				
1517-22-2	Phenanthrene-d10	4520	17.099				
1719-03-5	Chrysene-d12	3750	21.277				
1520-96-3	Perylene-d12	3700	23.516				

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\BN071625\
 Data File : BN037514.D
 Acq On : 16 Jul 2025 12:16
 Operator : RC/JU
 Sample : Q2604-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW8-SP100-20250711

Quant Time: Jul 16 12:41:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 2025
 Response via : Initial Calibration

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

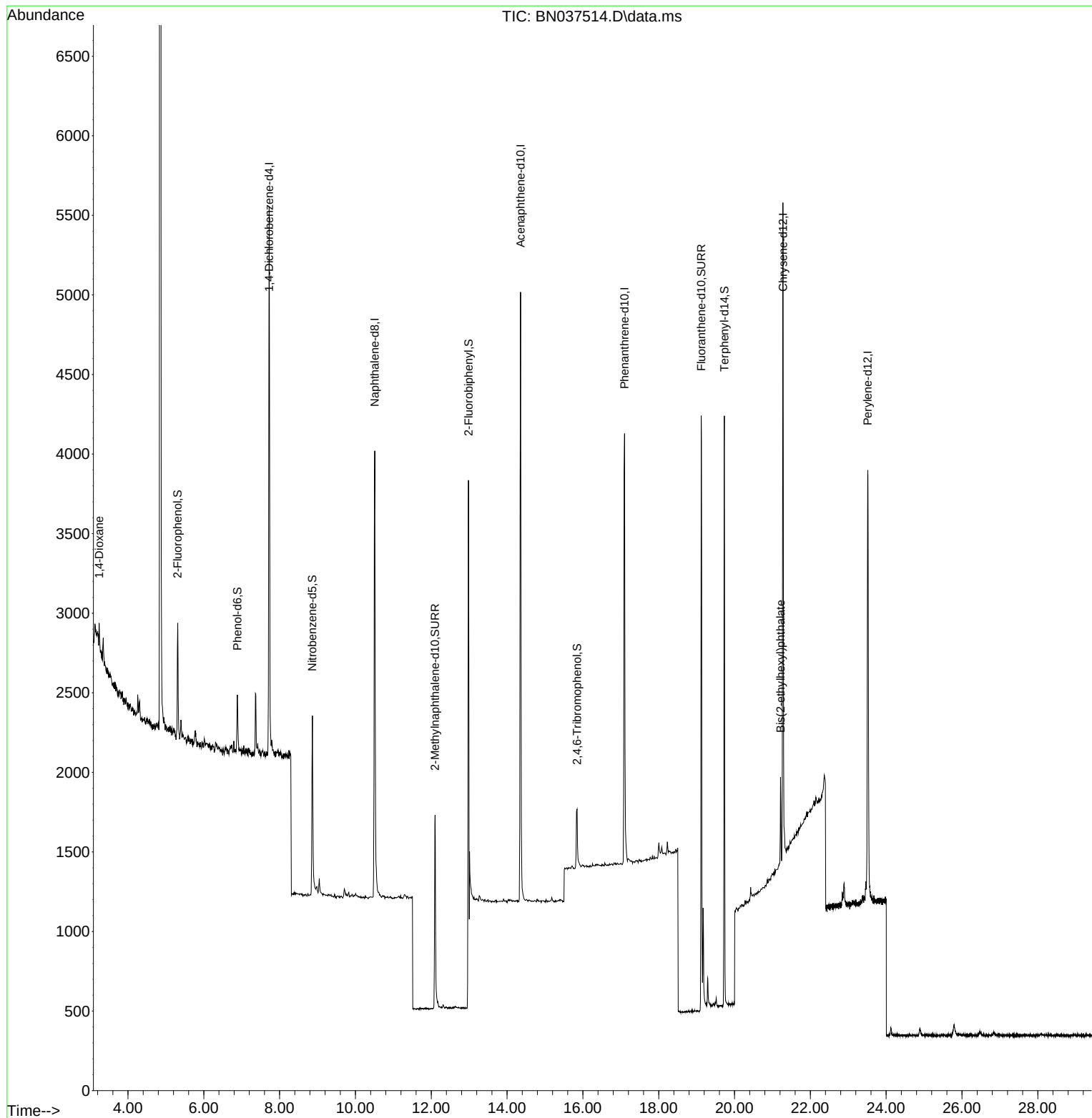
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1757	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4258	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2264	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	4524	0.400	ng	0.00
29) Chrysene-d12	21.277	240	3752	0.400	ng	0.00
35) Perylene-d12	23.516	264	3699	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	553	0.127	ng	0.00
5) Phenol-d6	6.887	99	341	0.063	ng	0.00
8) Nitrobenzene-d5	8.865	82	1028	0.323	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	1891	0.310	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	281	0.252	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	4754	0.404	ng	0.00
27) Fluoranthene-d10	19.122	212	4292	0.358	ng	0.00
31) Terphenyl-d14	19.731	244	3523	0.437	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	89	0.053	ng	Qvalue # 6
34) Bis(2-ethylhexyl)phtha...	21.214	149	572	0.097	ng	95

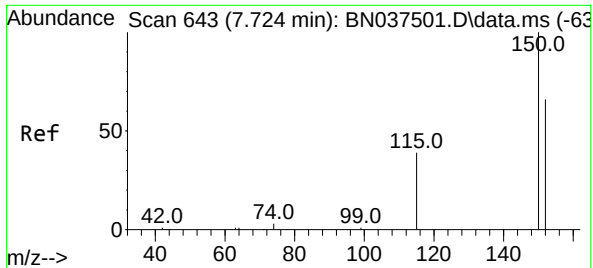
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037514.D
Acq On : 16 Jul 2025 12:16
Operator : RC/JU
Sample : Q2604-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250711

Quant Time: Jul 16 12:41:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 16 02:38:11 2025
Response via : Initial Calibration

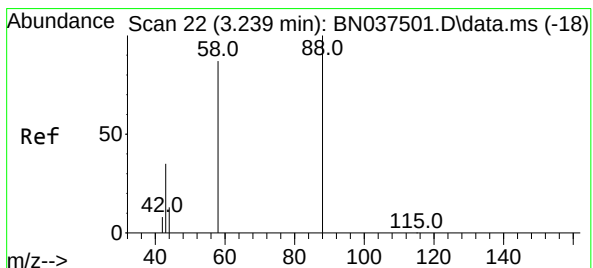
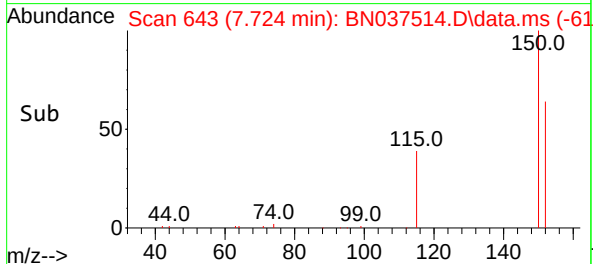
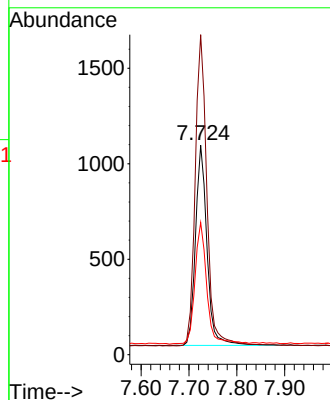
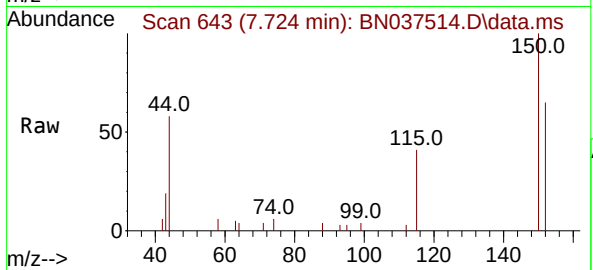




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

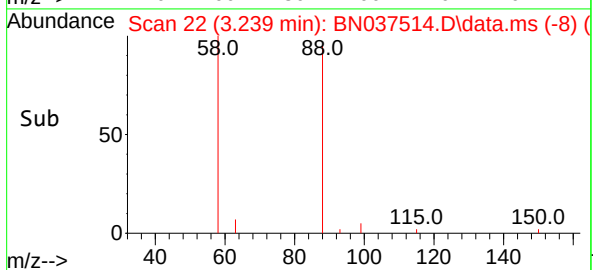
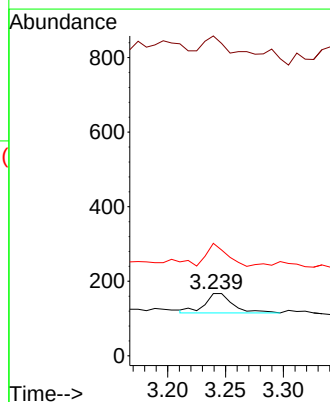
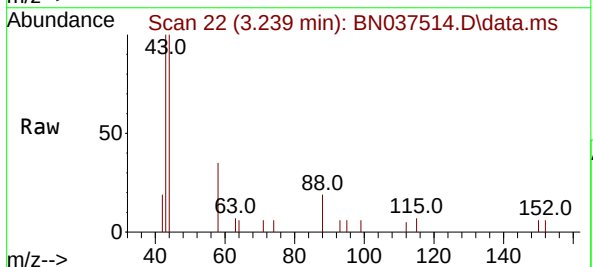
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250711

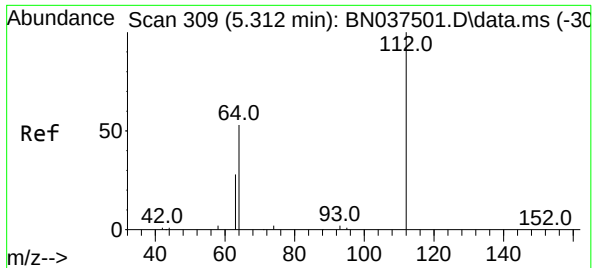
Tgt Ion:152 Resp: 1757
Ion Ratio Lower Upper
152 100
150 152.8 119.8 179.8
115 63.1 49.1 73.7



#2
1,4-Dioxane
Concen: 0.053 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

Tgt Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 205.6 27.5 41.3#
58 82.0 62.7 94.1

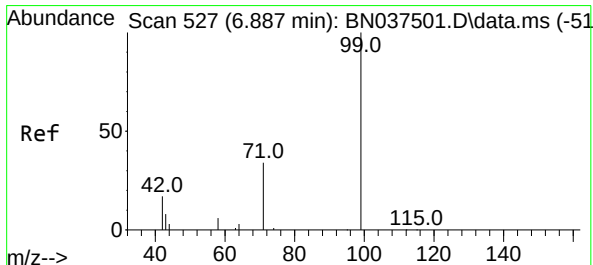
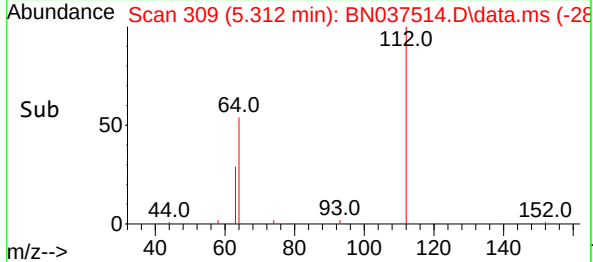
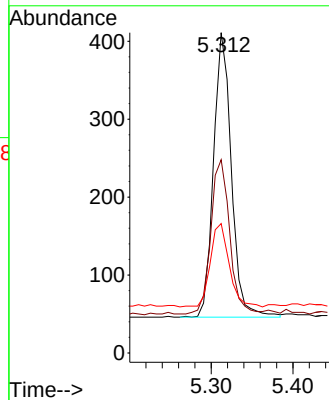
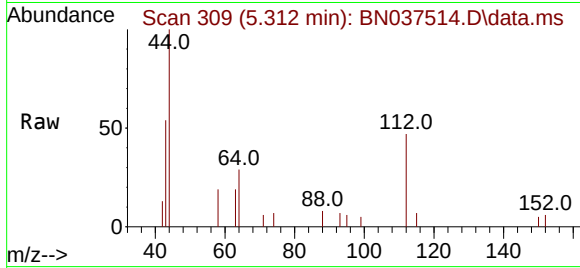




#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

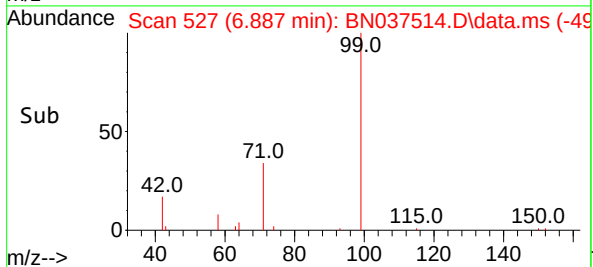
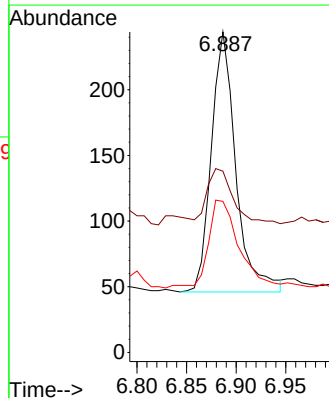
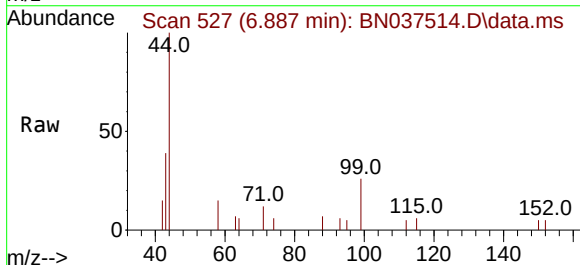
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250711

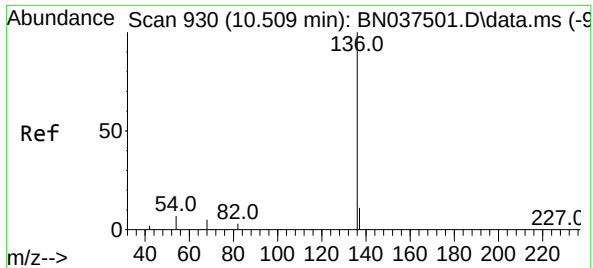
Tgt Ion:	112	Resp:	553
Ion	Ratio	Lower	Upper
112	100		
64	57.3	45.1	67.7
63	30.9	23.8	35.8



#5
Phenol-d6
Concen: 0.063 ng
RT: 6.887 min Scan# 527
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

Tgt Ion:	99	Resp:	341
Ion	Ratio	Lower	Upper
99	100		
42	22.0	17.1	25.7
71	44.9	27.8	41.8

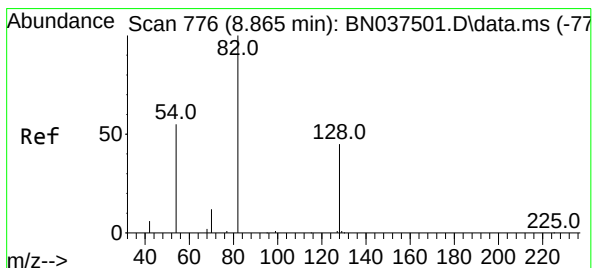
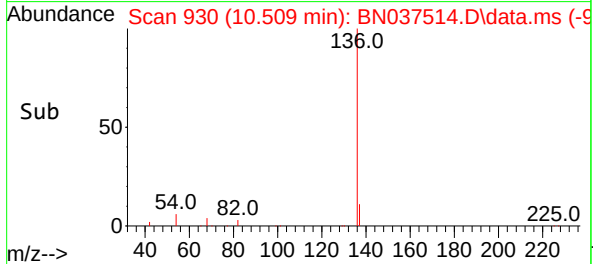
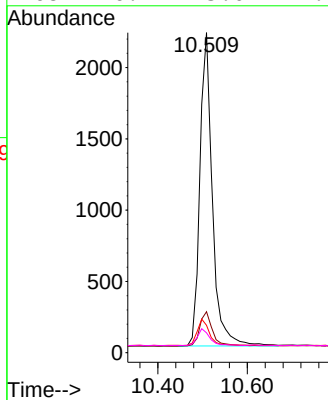
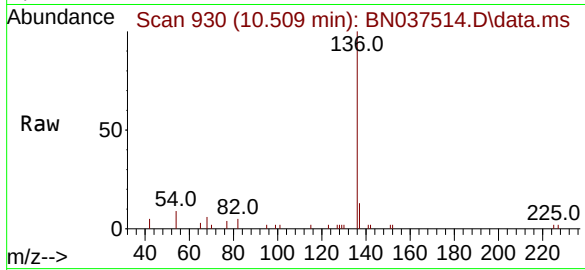




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

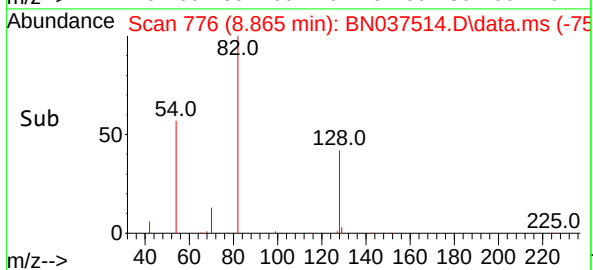
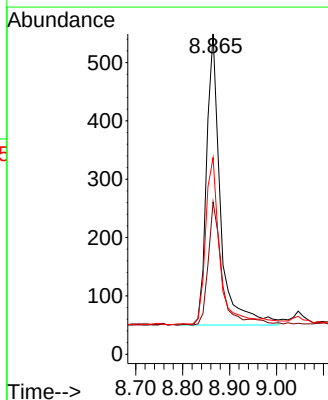
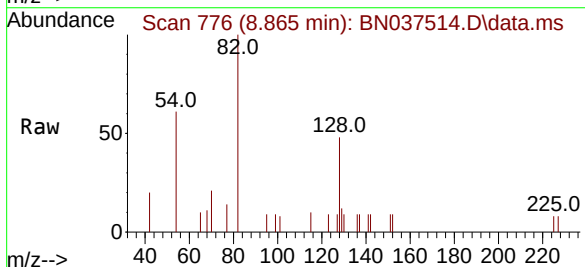
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250711

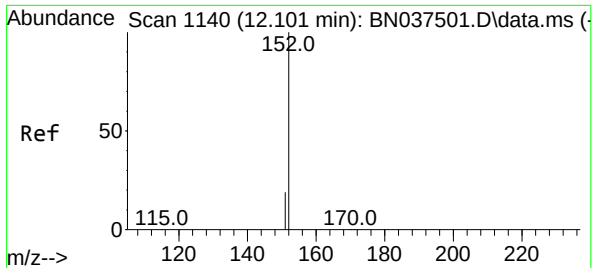
Tgt Ion:	136	Resp:	4258
Ion	Ratio	Lower	Upper
136	100		
137	12.8	9.8	14.8
54	8.6	6.6	9.8
68	6.2	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.323 ng
RT: 8.865 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

Tgt Ion:	82	Resp:	1028
Ion	Ratio	Lower	Upper
82	100		
128	47.5	37.5	56.3
54	61.4	45.3	67.9

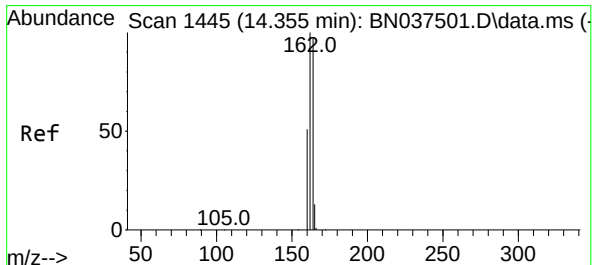
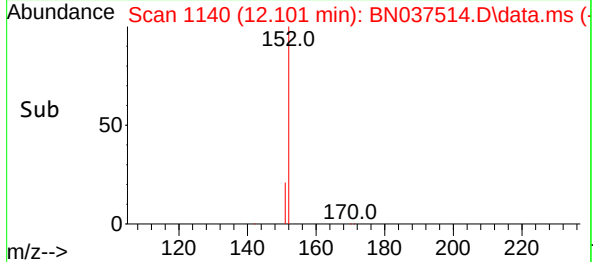
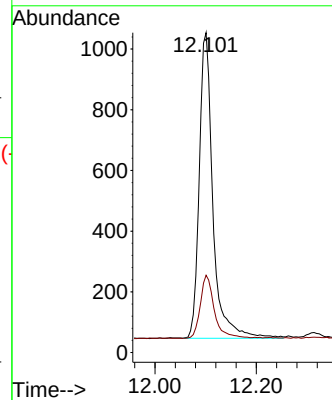
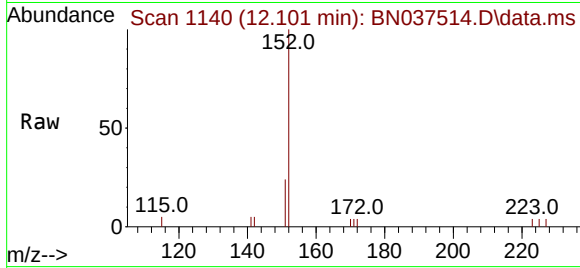




#11
2-Methylnaphthalene-d10
Concen: 0.310 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

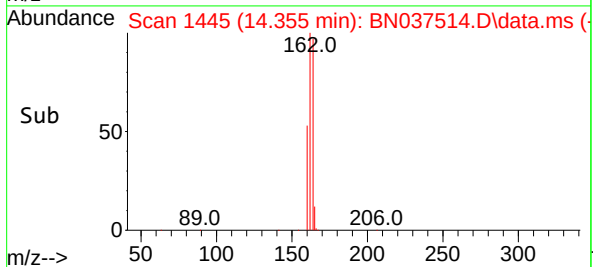
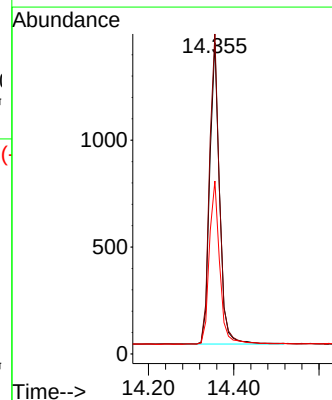
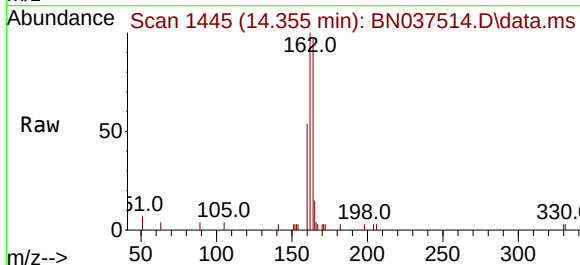
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250711

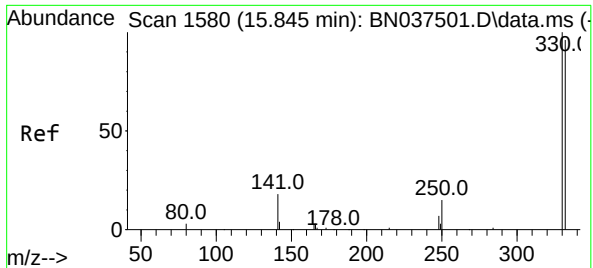
Tgt Ion:152 Resp: 1891
Ion Ratio Lower Upper
152 100
151 21.2 16.8 25.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

Tgt Ion:164 Resp: 2264
Ion Ratio Lower Upper
164 100
162 102.8 82.0 123.0
160 55.6 42.4 63.6

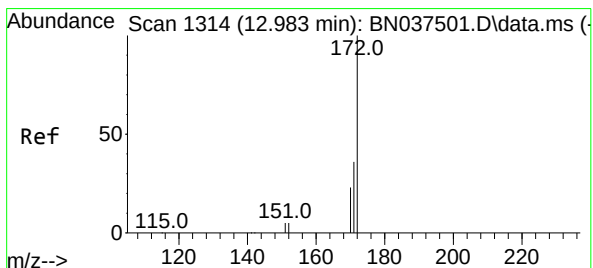
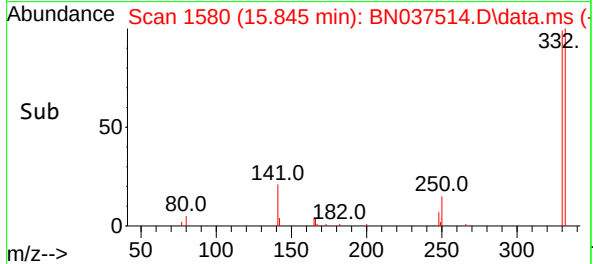
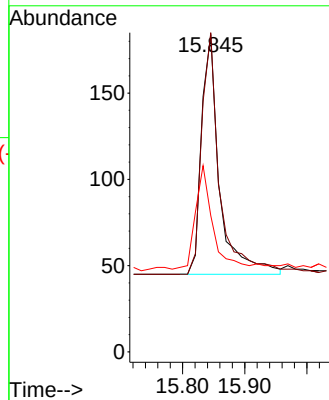
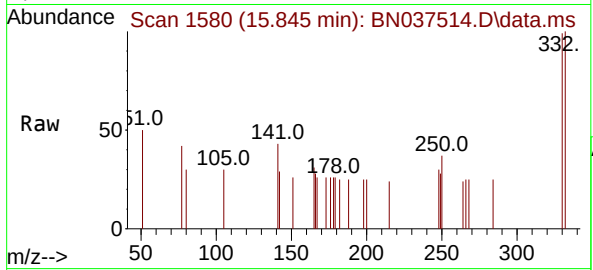




#14
2,4,6-Tribromophenol
Concen: 0.252 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

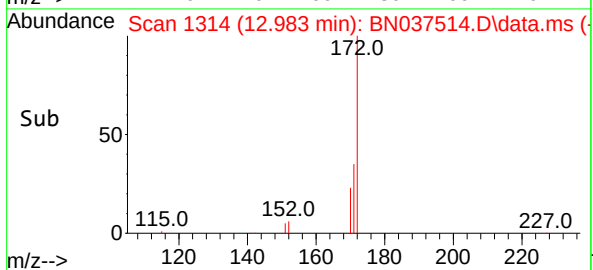
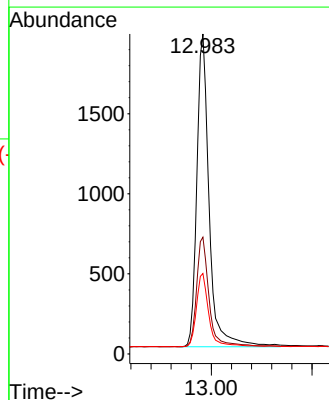
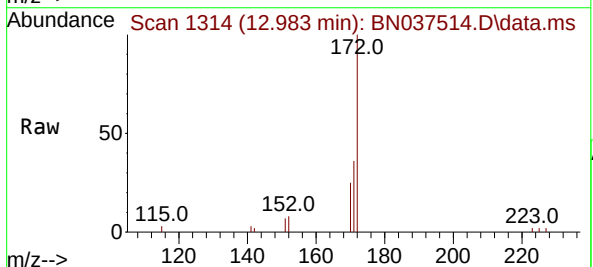
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250711

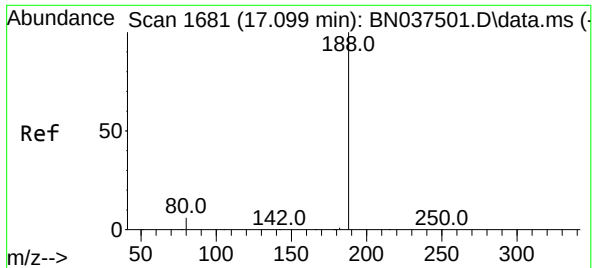
Tgt Ion	330	Resp	281
Ion	Ratio	Lower	Upper
330	100		
332	102.8	76.1	114.1
141	42.3	33.4	50.0



#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.983 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

Tgt Ion	172	Resp	4754
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.4	44.2
170	25.1	19.4	29.0

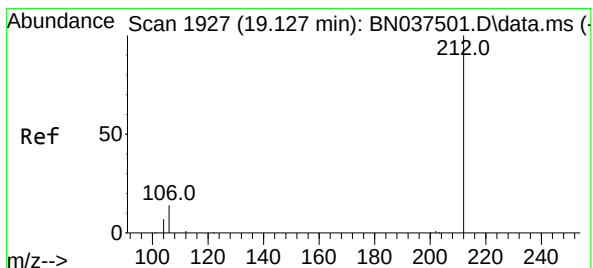
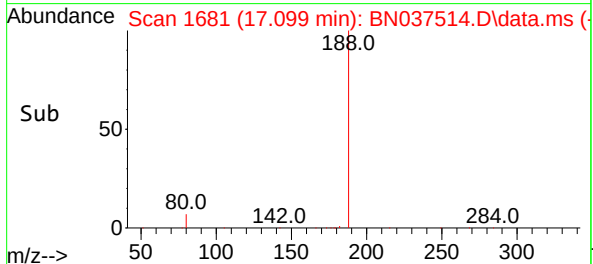
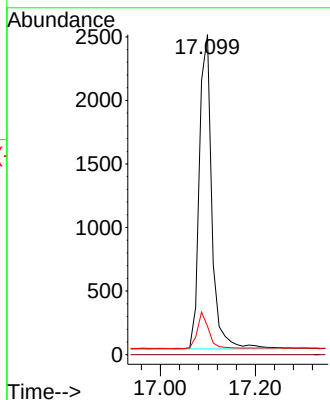
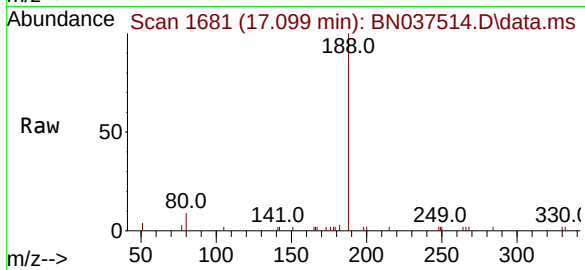




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

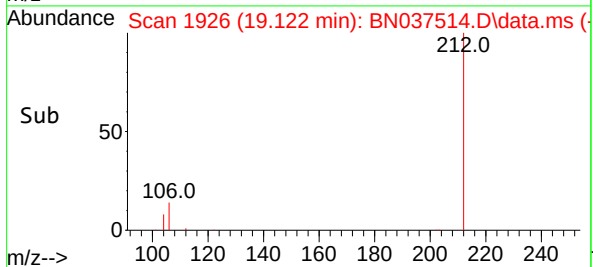
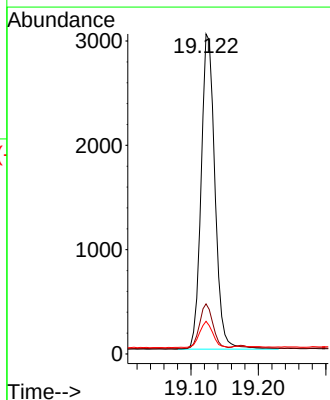
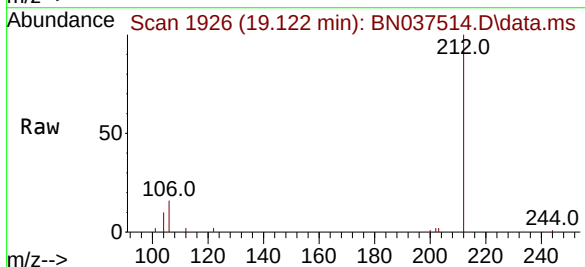
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250711

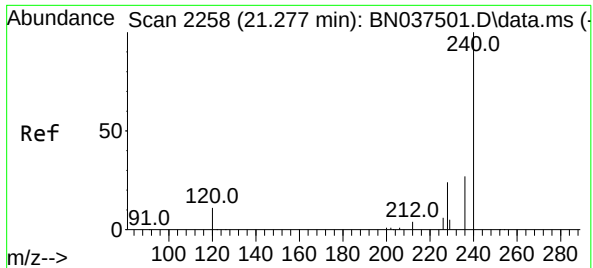
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	6.0	9.0



#27
Fluoranthene-d10
Concen: 0.358 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.9	12.2	18.4
104	8.2	6.7	10.1

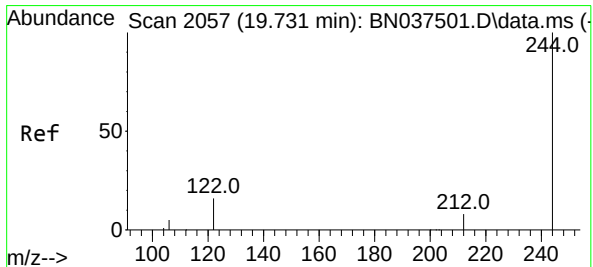
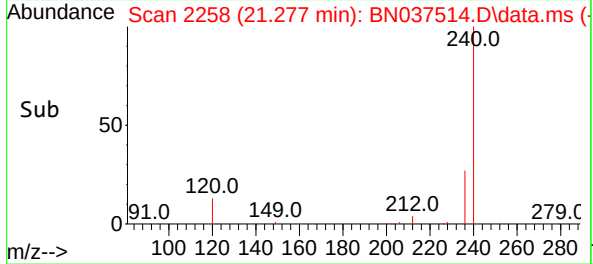
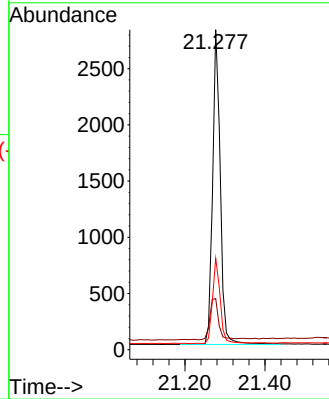
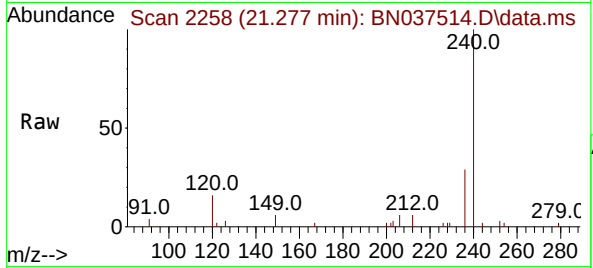




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

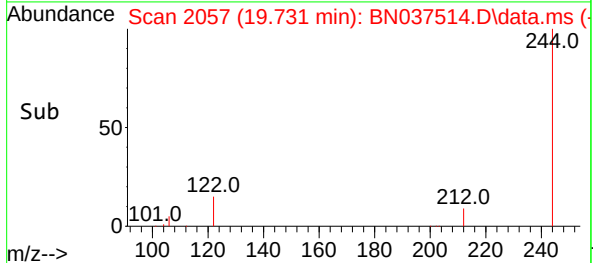
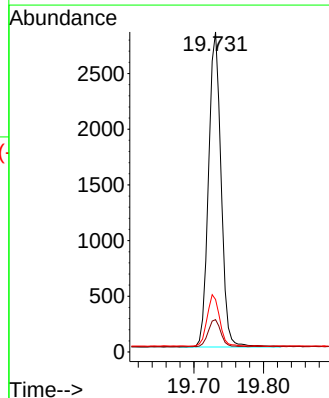
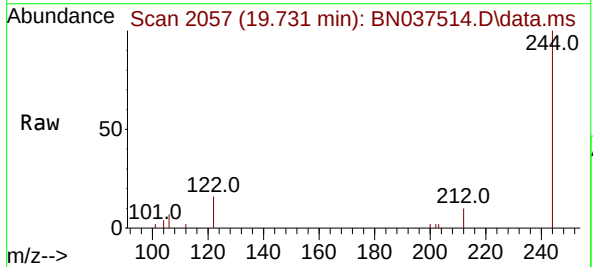
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250711

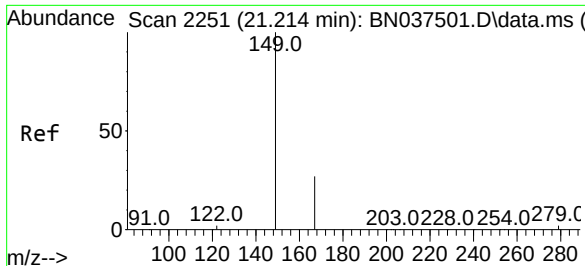
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.0	10.7	16.1
236	28.6	22.6	33.8



#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037514.D
Acq: 16 Jul 2025 12:16

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.4	11.2
122	16.4	13.6	20.4





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.097 ng

RT: 21.214 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037514.D

Acq: 16 Jul 2025 12:16

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250711

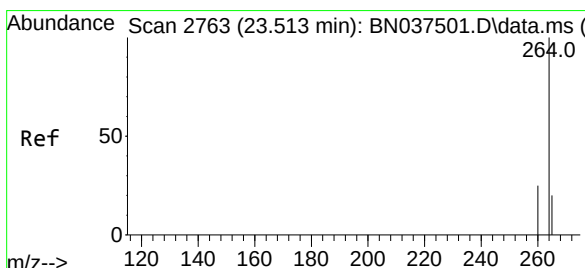
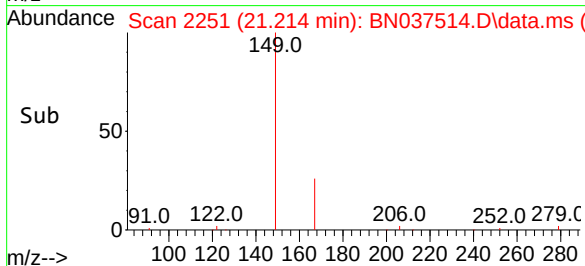
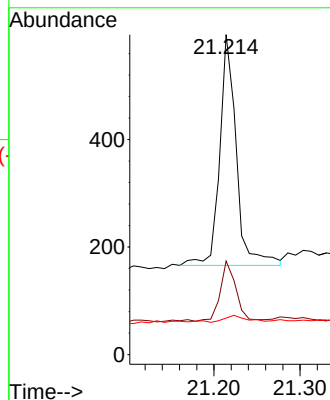
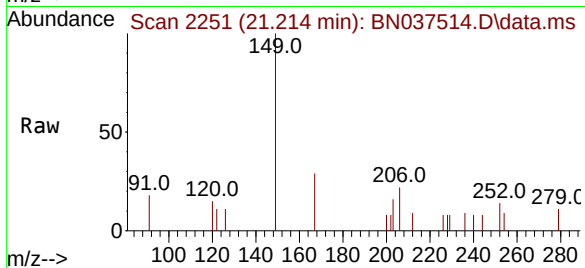
Tgt Ion:149 Resp: 572

Ion Ratio Lower Upper

149 100

167 24.5 21.8 32.8

279 3.5 3.0 4.4



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 2764

Delta R.T. 0.003 min

Lab File: BN037514.D

Acq: 16 Jul 2025 12:16

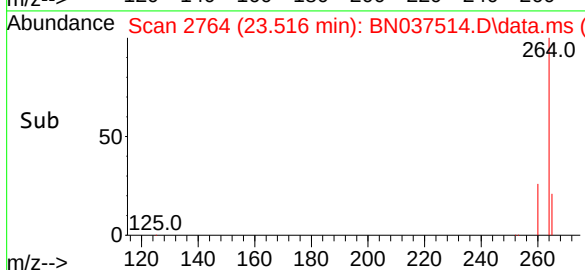
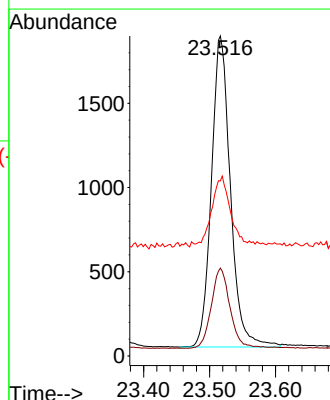
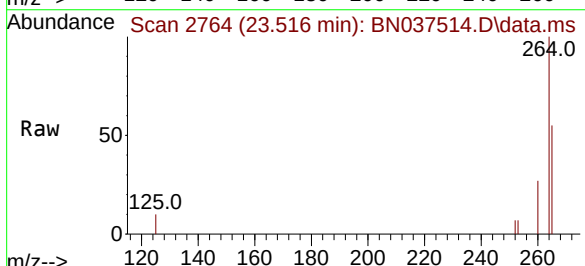
Tgt Ion:264 Resp: 3699

Ion Ratio Lower Upper

264 100

260 27.5 21.2 31.8

265 54.7 40.4 60.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/15/25
Client Sample ID:	RW8-SP303-20250711	SDG No.:	Q2604
Lab Sample ID:	Q2604-02	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
BN037515.D	1	07/15/25 11:40	07/16/25 12:53	PB168868

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		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1670	7.725				
1146-65-2	Naphthalene-d8	4000	10.509				
15067-26-2	Acenaphthene-d10	2070	14.356				
1517-22-2	Phenanthrene-d10	4340	17.099				
1719-03-5	Chrysene-d12	3980	21.277				
1520-96-3	Perylene-d12	3910	23.516				

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\BN071625\
 Data File : BN037515.D
 Acq On : 16 Jul 2025 12:53
 Operator : RC/JU
 Sample : Q2604-02
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW8-SP303-20250711

Quant Time: Jul 16 13:19:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 2025
 Response via : Initial Calibration

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

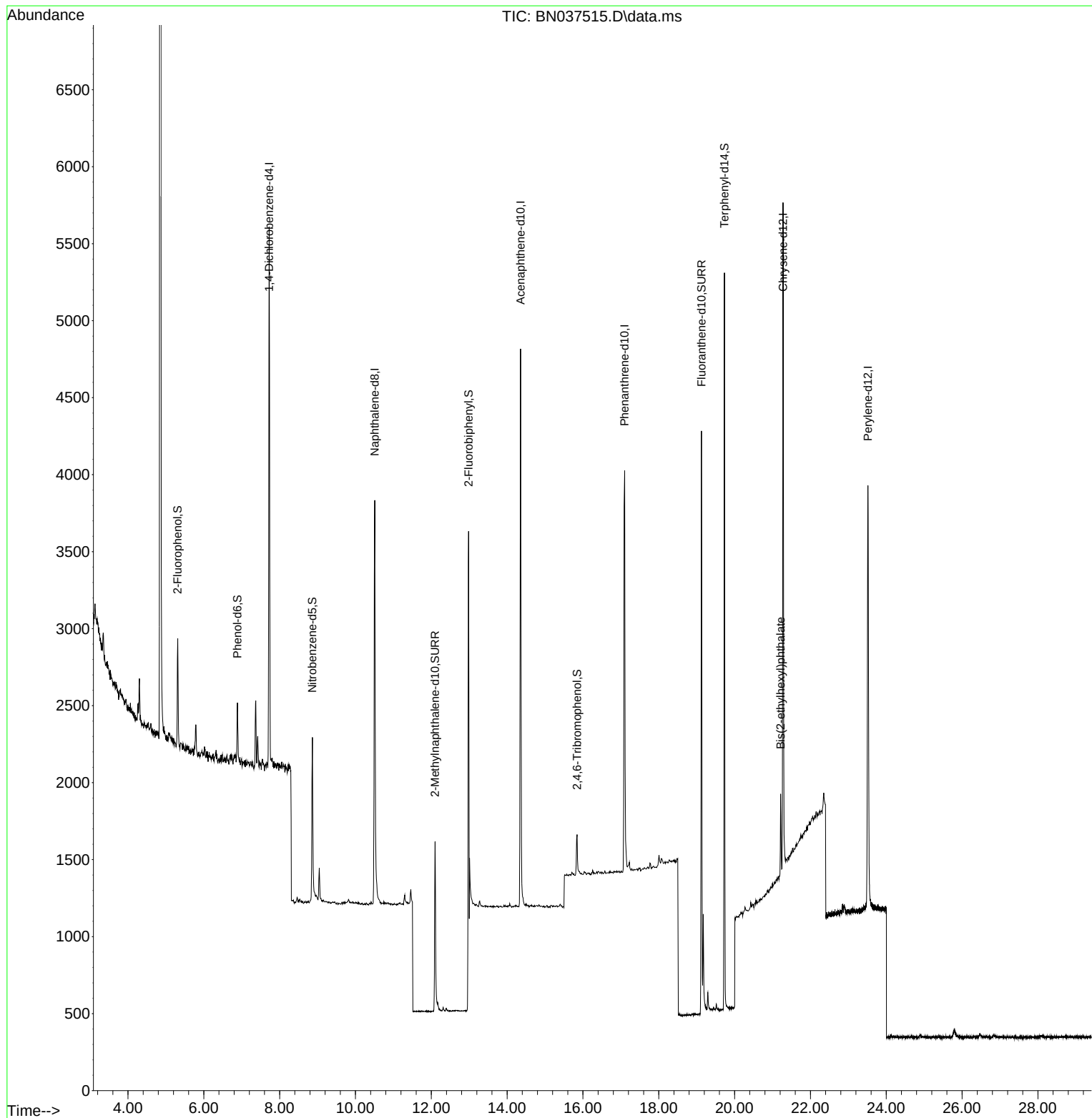
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.725	152	1670	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3997	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2071	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	4336	0.400	ng	0.00
29) Chrysene-d12	21.277	240	3975	0.400	ng	# 0.00
35) Perylene-d12	23.516	264	3913	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	518	0.125	ng	0.00
5) Phenol-d6	6.887	99	331	0.064	ng	0.00
8) Nitrobenzene-d5	8.865	82	974	0.326	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	1736	0.303	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	191	0.188	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	4531	0.421	ng	0.00
27) Fluoranthene-d10	19.127	212	4364	0.380	ng	0.00
31) Terphenyl-d14	19.731	244	4481	0.525	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	530	0.085	ng	# 95

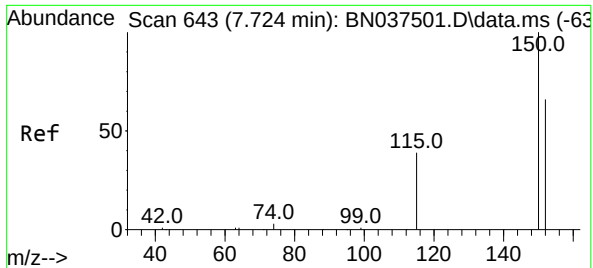
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037515.D
Acq On : 16 Jul 2025 12:53
Operator : RC/JU
Sample : Q2604-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250711

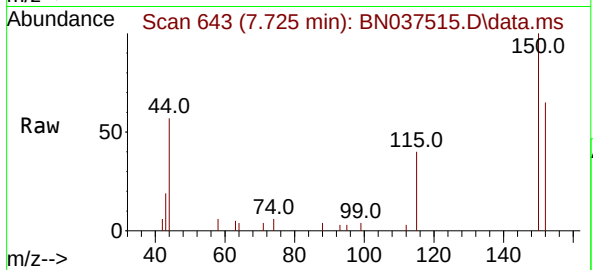
Quant Time: Jul 16 13:19:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 16 02:38:11 2025
Response via : Initial Calibration



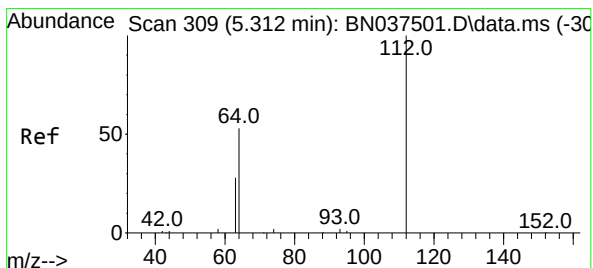
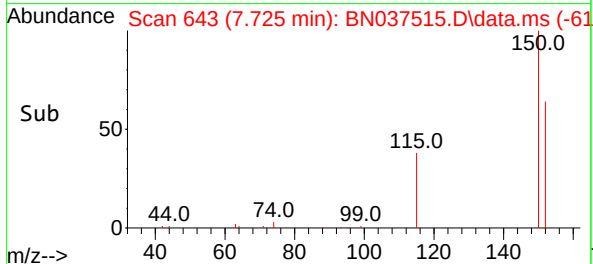
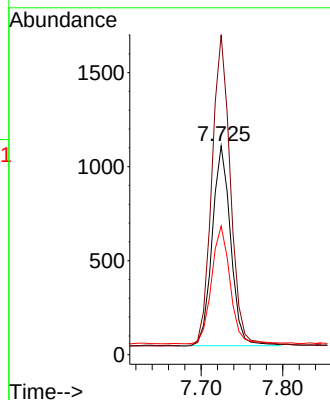


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.725 min Scan# 643
Delta R.T. 0.001 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250711

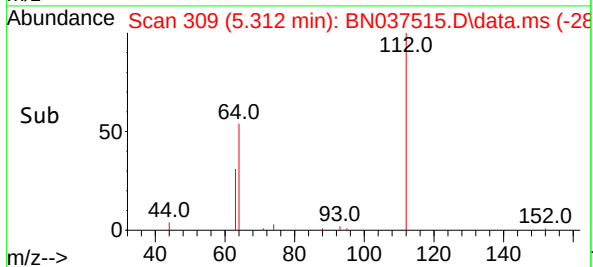
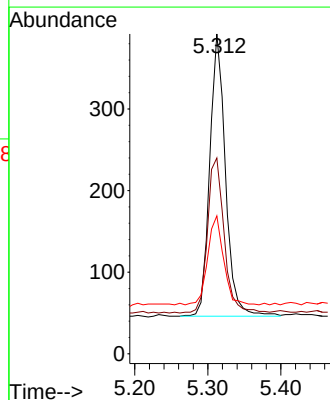
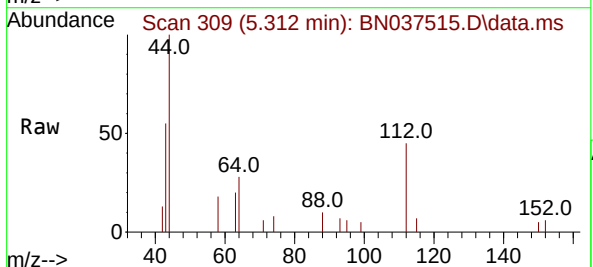


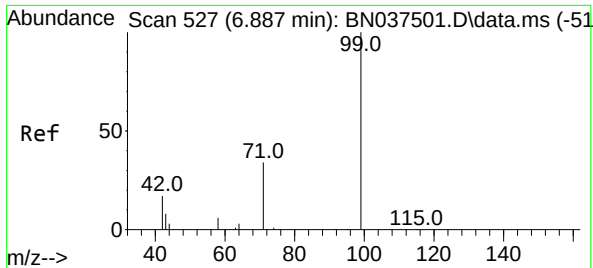
Tgt Ion:152 Resp: 1670
Ion Ratio Lower Upper
152 100
150 153.2 119.8 179.8
115 61.6 49.1 73.7



#4
2-Fluorophenol
Concen: 0.125 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

Tgt Ion:112 Resp: 518
Ion Ratio Lower Upper
112 100
64 58.1 45.1 67.7
63 31.9 23.8 35.8

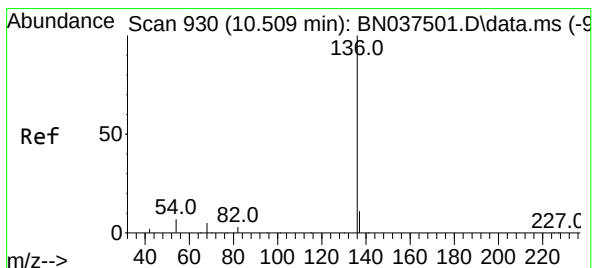
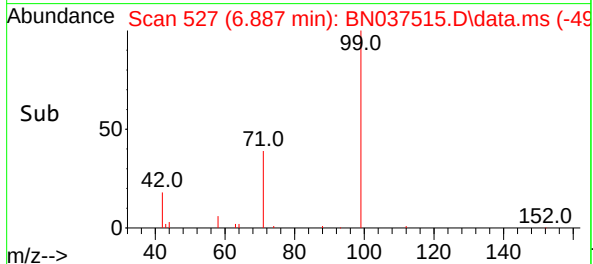
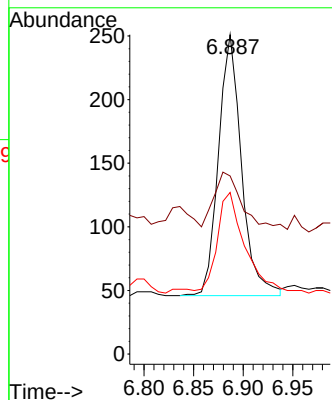
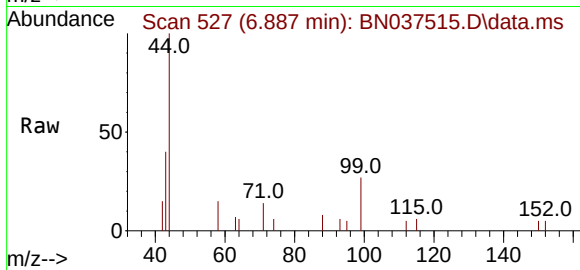




#5
Phenol-d6
Concen: 0.064 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

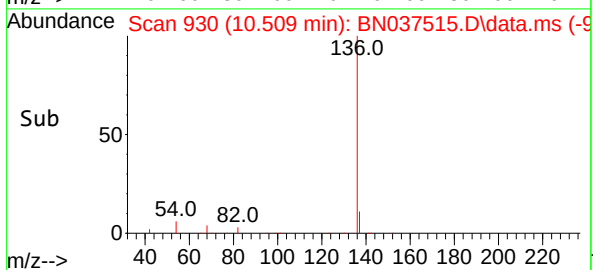
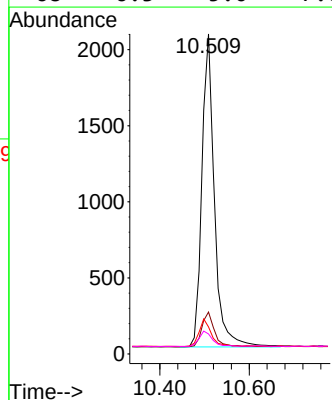
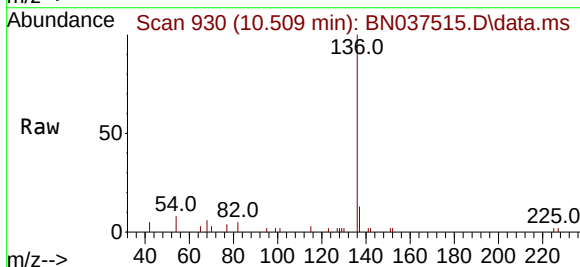
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250711

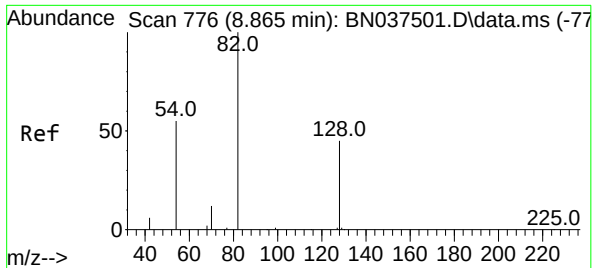
Tgt Ion: 99 Resp: 331
Ion Ratio Lower Upper
99 100
42 25.1 17.1 25.7
71 48.0 27.8 41.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

Tgt Ion:136 Resp: 3997
Ion Ratio Lower Upper
136 100
137 13.1 9.8 14.8
54 8.5 6.6 9.8
68 6.3 5.0 7.6

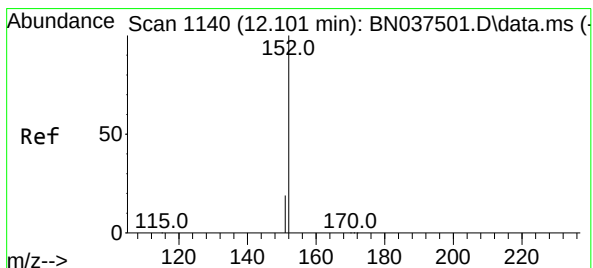
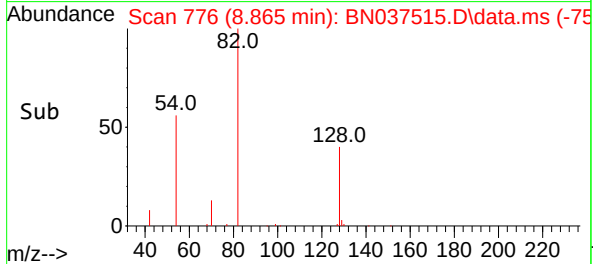
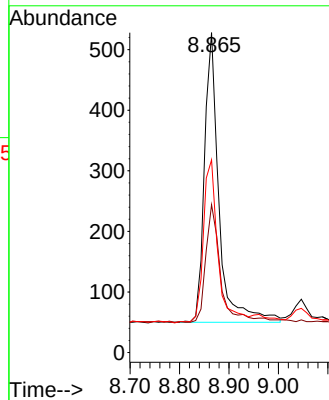
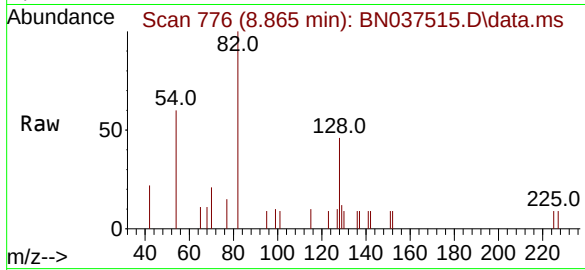




#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.865 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

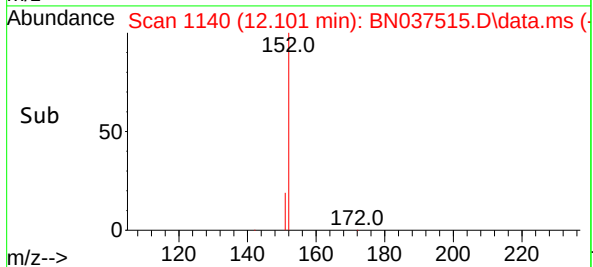
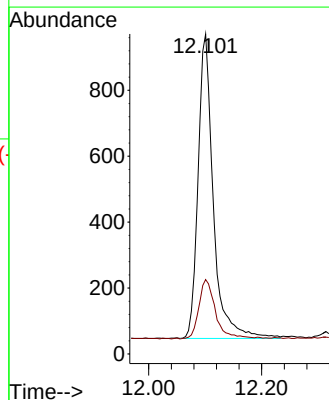
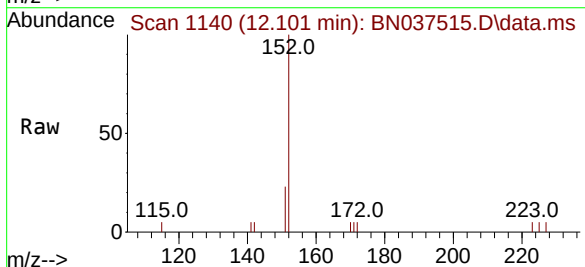
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250711

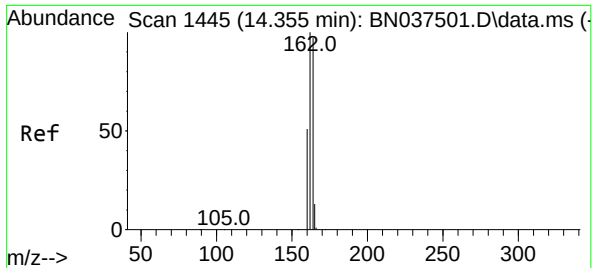
Tgt Ion:	82	Resp:	974
Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.5	56.3
54	60.2	45.3	67.9



#11
2-Methylnaphthalene-d10
Concen: 0.303 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

Tgt Ion:	152	Resp:	1736
Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.8	25.2

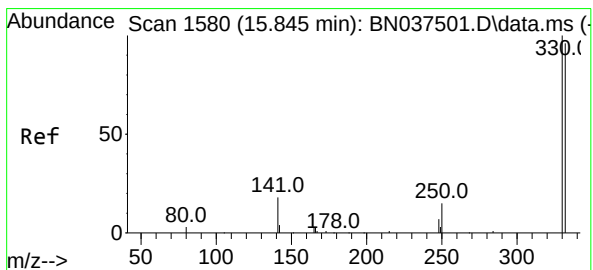
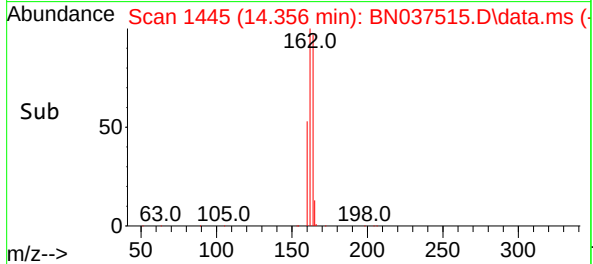
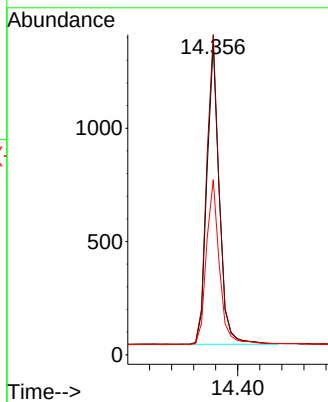
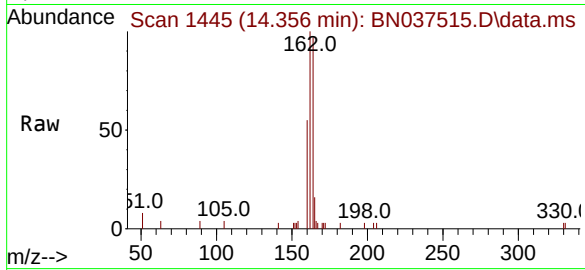




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

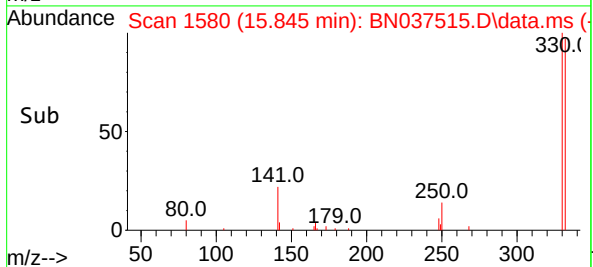
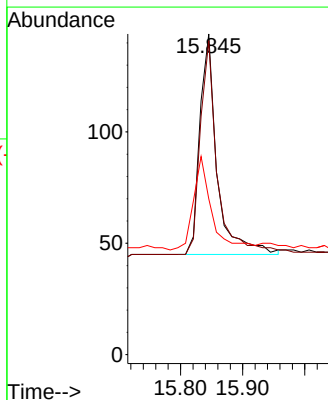
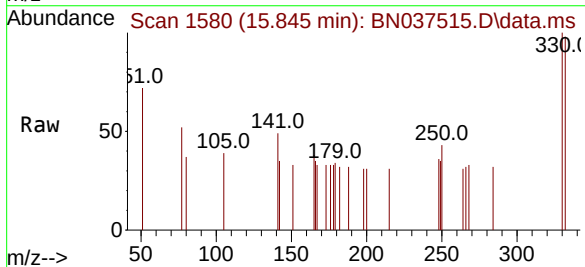
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250711

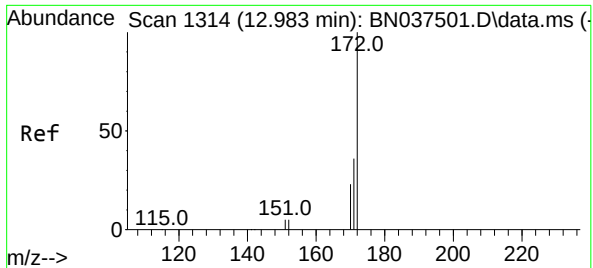
Tgt Ion	164	Resp:	2071
Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.0	123.0
160	56.3	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

Tgt Ion	330	Resp:	191
Ion	Ratio	Lower	Upper
330	100		
332	97.4	76.1	114.1
141	45.0	33.4	50.0





#15

2-Fluorobiphenyl

Concen: 0.421 ng

RT: 12.983 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037515.D

Acq: 16 Jul 2025 12:53

Instrument :

BNA_N

ClientSampleId :

RW8-SP303-20250711

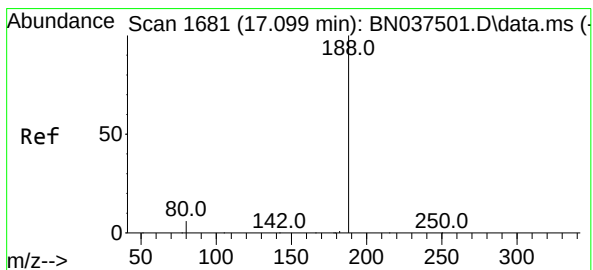
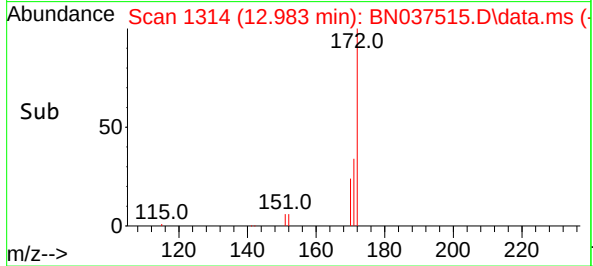
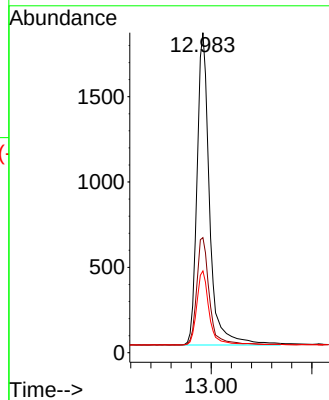
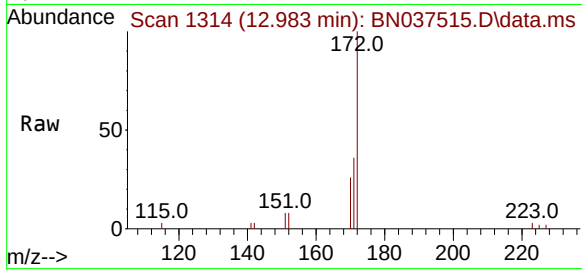
Tgt Ion:172 Resp: 4531

Ion Ratio Lower Upper

172 100

171 35.9 29.4 44.2

170 25.5 19.4 29.0



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1681

Delta R.T. 0.000 min

Lab File: BN037515.D

Acq: 16 Jul 2025 12:53

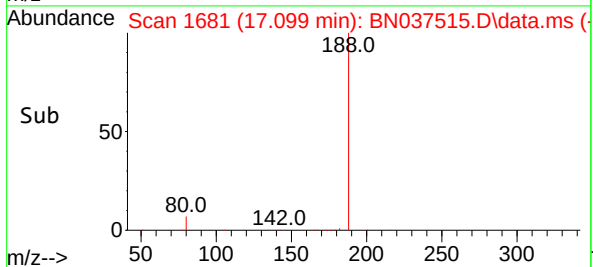
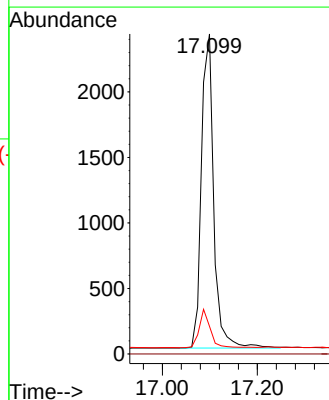
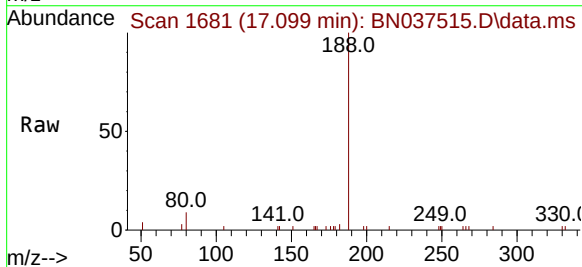
Tgt Ion:188 Resp: 4336

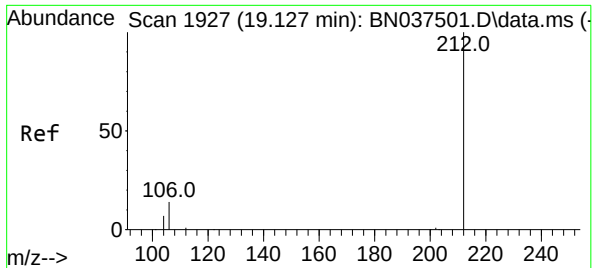
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.6 6.0 9.0





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037515.D

Acq: 16 Jul 2025 12:53

Instrument :

BNA_N

ClientSampleId :

RW8-SP303-20250711

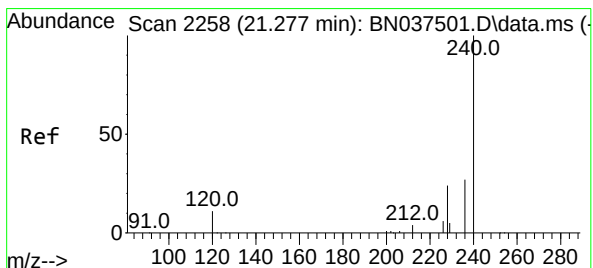
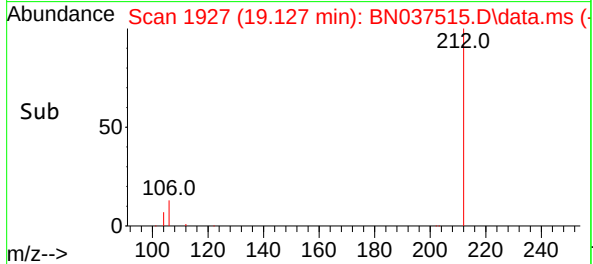
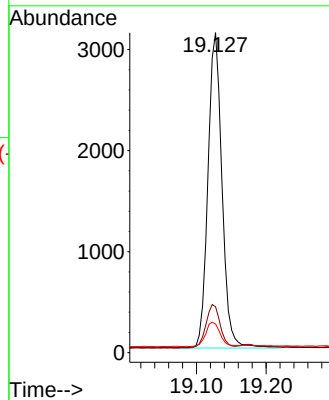
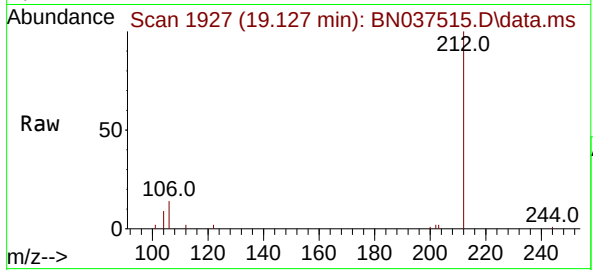
Tgt Ion:212 Resp: 4364

Ion Ratio Lower Upper

212 100

106 13.8 12.2 18.4

104 8.0 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: BN037515.D

Acq: 16 Jul 2025 12:53

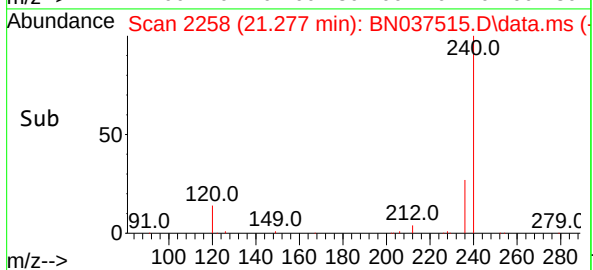
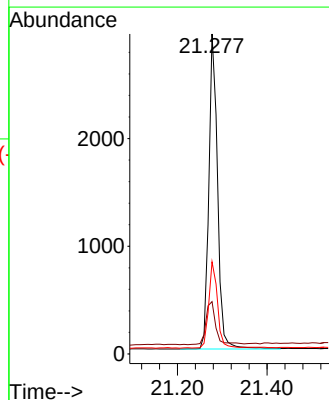
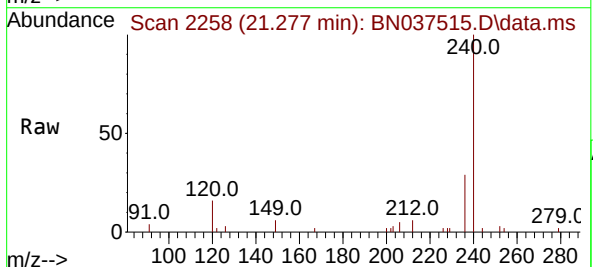
Tgt Ion:240 Resp: 3975

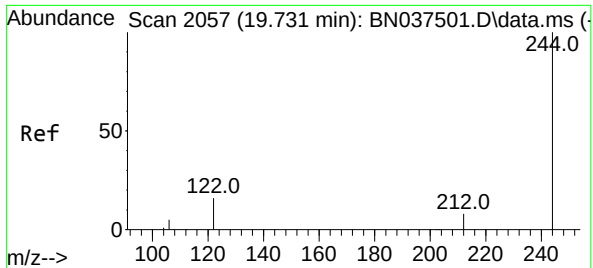
Ion Ratio Lower Upper

240 100

120 16.4 10.7 16.1#

236 28.8 22.6 33.8

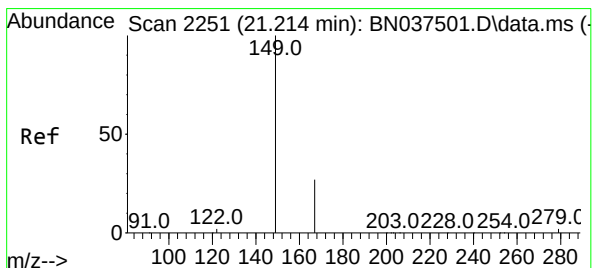
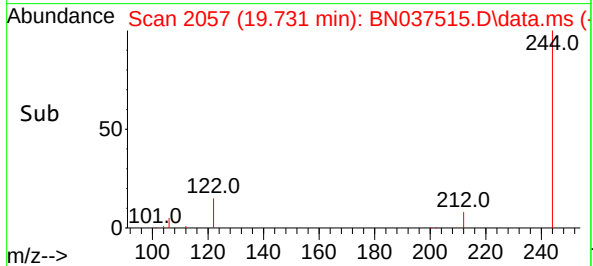
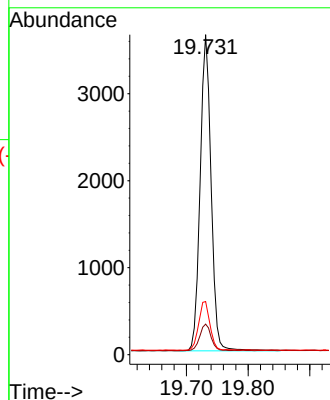
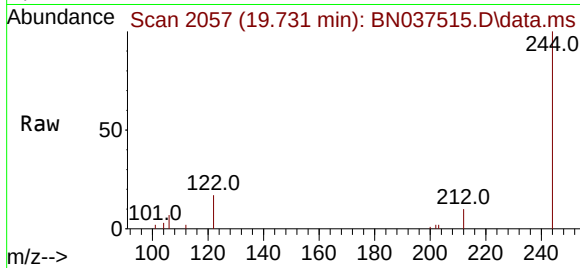




#31
Terphenyl-d14
Concen: 0.525 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

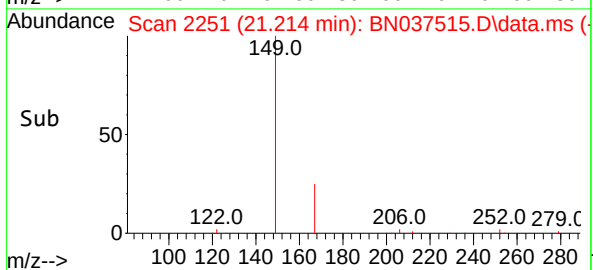
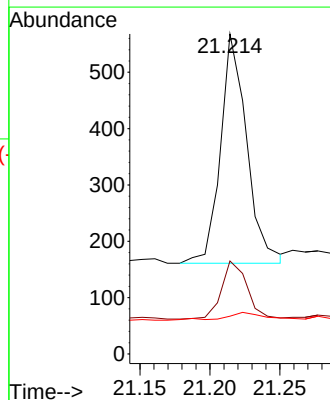
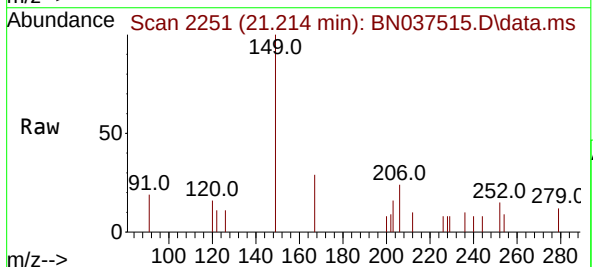
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250711

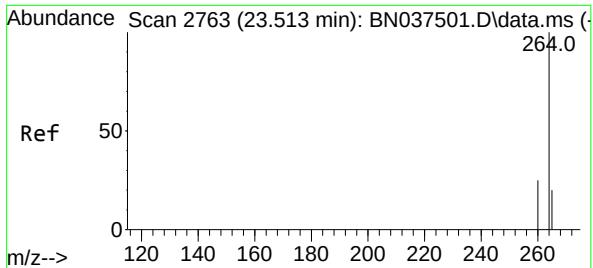
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.4	11.2
122	16.6	13.6	20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.085 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN037515.D
Acq: 16 Jul 2025 12:53

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.7	21.8	32.8
279	5.3	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: BN037515.D

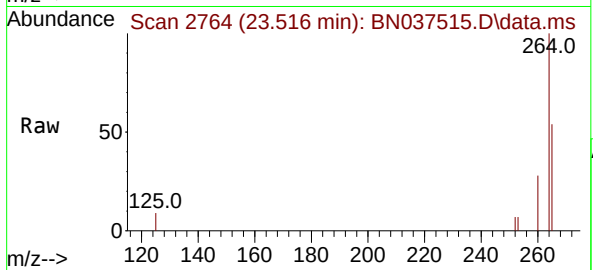
Acq: 16 Jul 2025 12:53

Instrument :

BNA_N

ClientSampleId :

RW8-SP303-20250711



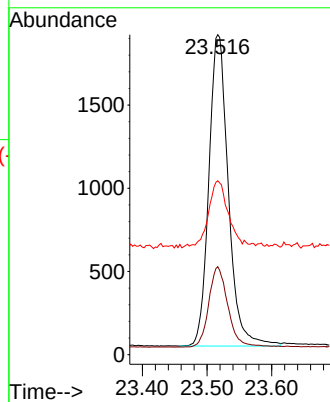
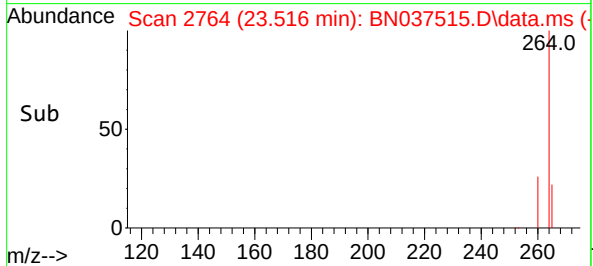
Tgt Ion:264 Resp: 3913

Ion Ratio Lower Upper

264 100

260 27.5 21.2 31.8

265 54.3 40.4 60.6





CALIBRATION SUMMARY

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)

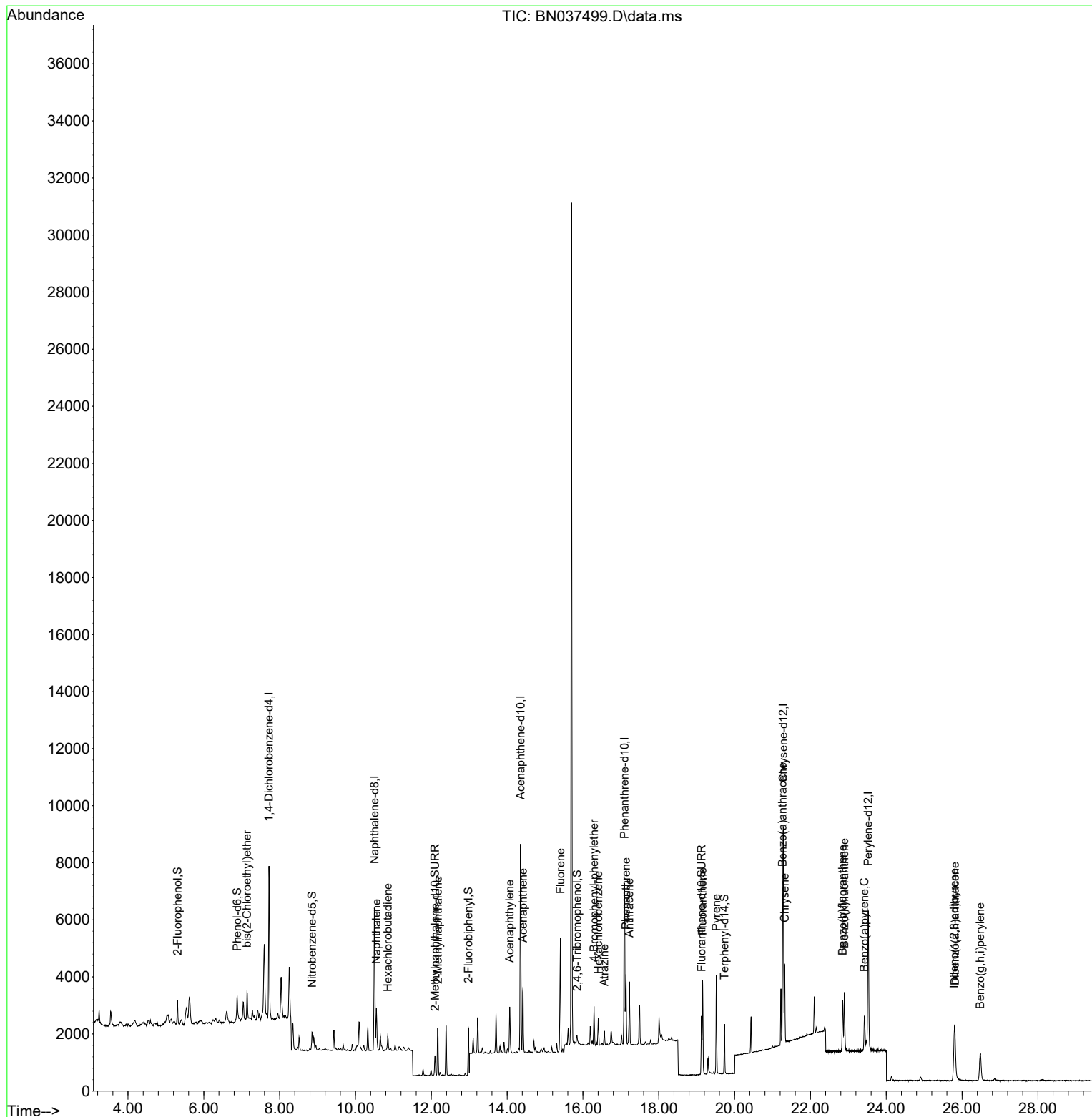
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2613	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	6917	0.400	ng	#-0.01
13) Acenaphthene-d10	14.355	164	4050	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	8501	0.400	ng	0.00
29) Chrysene-d12	21.286	240	6753	0.400	ng	0.00
35) Perylene-d12	23.522	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						Qvalue
6) bis(2-Chloroethyl)ether	7.139	93	707	0.105	ng	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

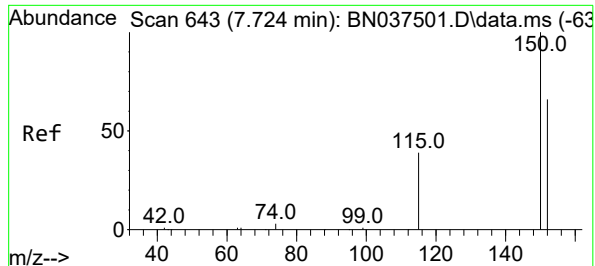
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

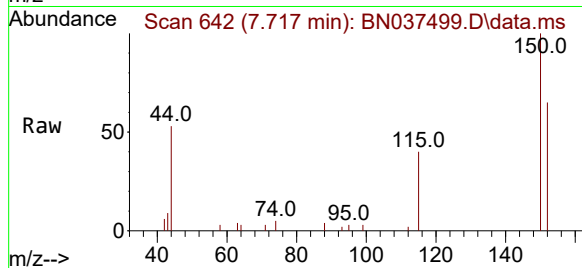
Quant Time: Jul 15 17:25:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration



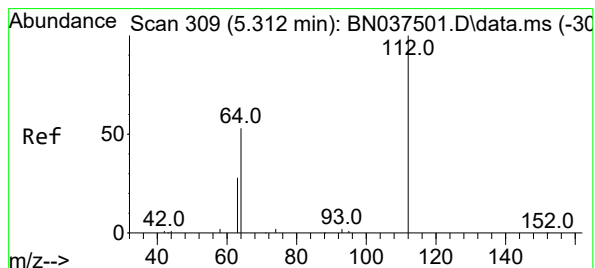
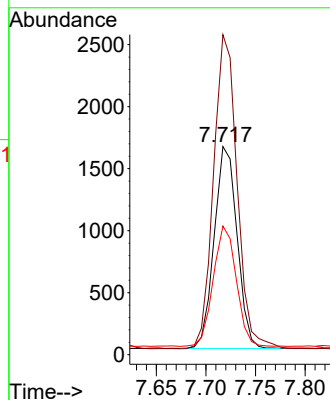
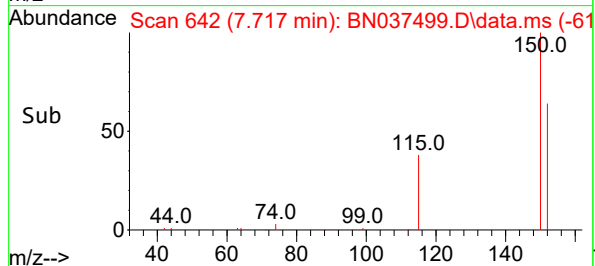


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

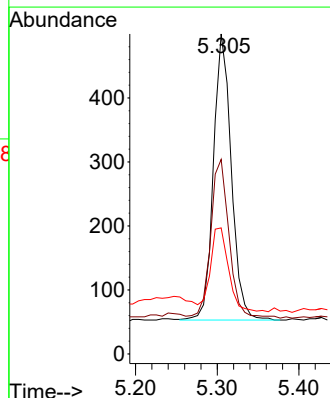
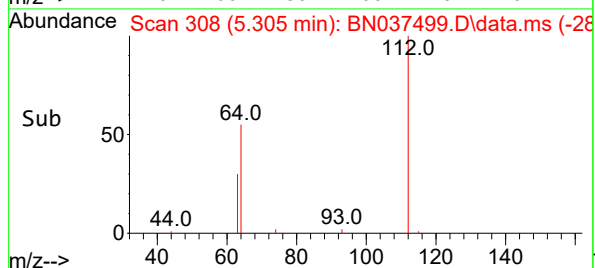
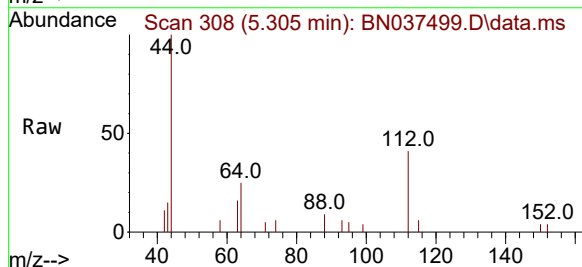


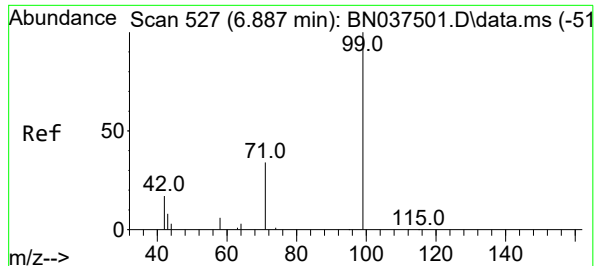
Tgt Ion:152 Resp: 2613
Ion Ratio Lower Upper
152 100
150 153.7 119.8 179.8
115 61.8 49.1 73.7



#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

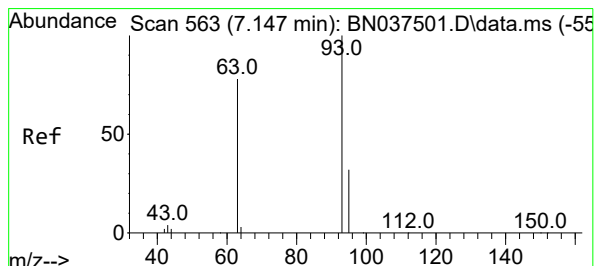
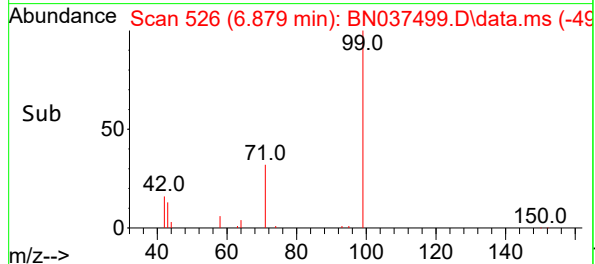
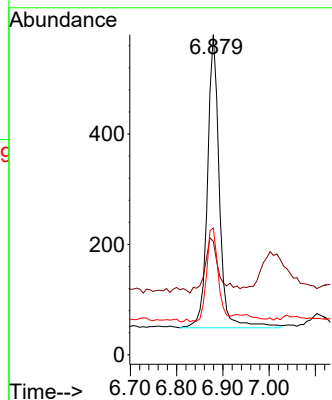
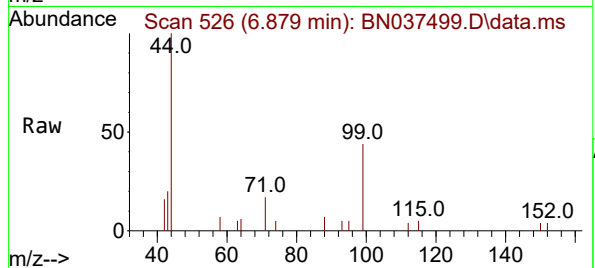




#5
Phenol-d6
Concen: 0.117 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

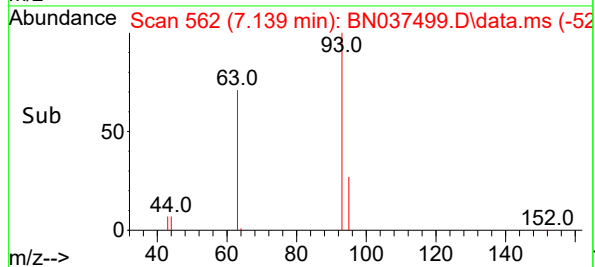
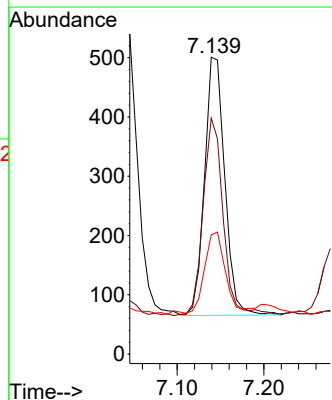
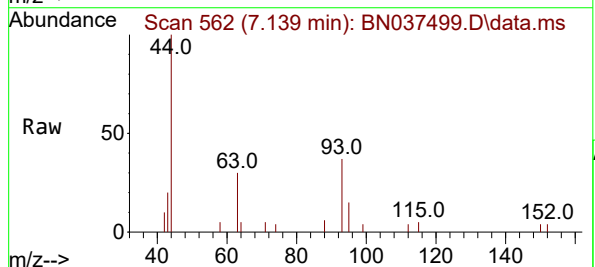
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

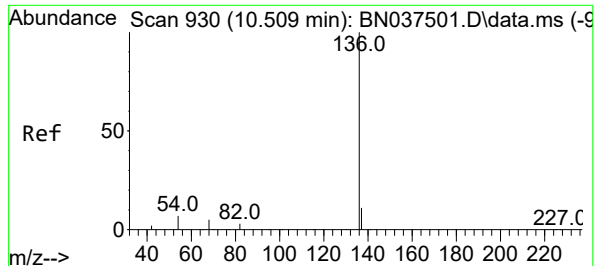
Tgt Ion: 99 Resp: 946
Ion Ratio Lower Upper
99 100
42 22.3 17.1 25.7
71 31.1 27.8 41.8



#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

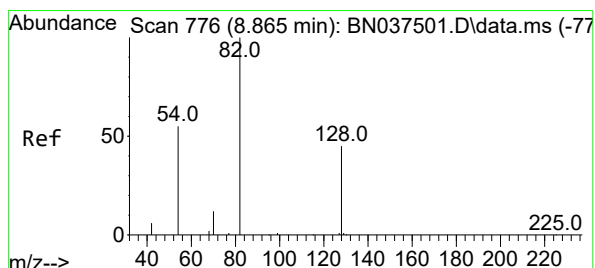
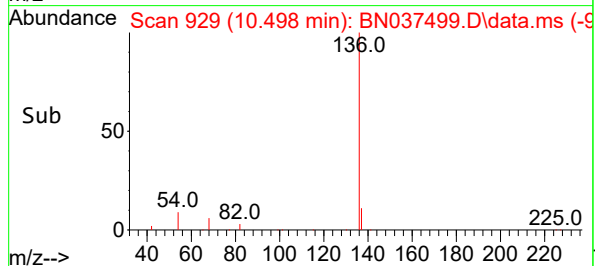
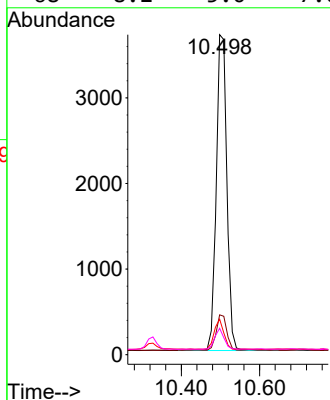
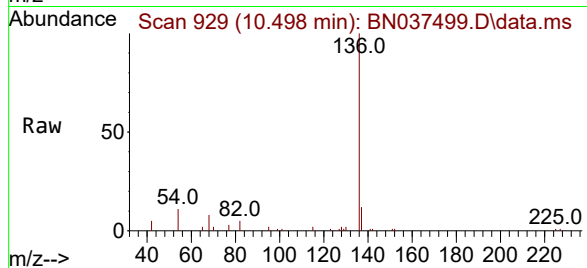




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

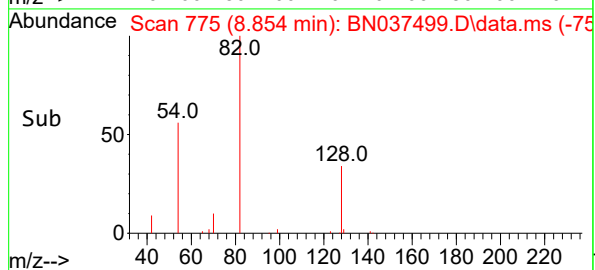
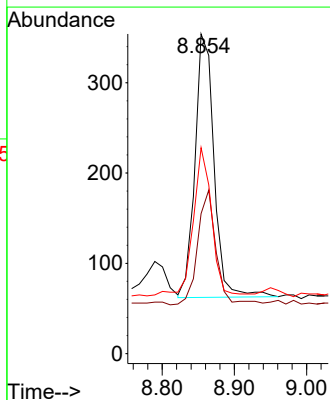
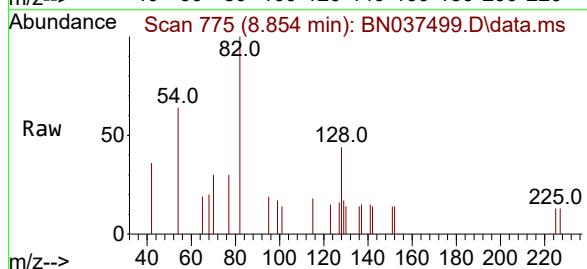
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

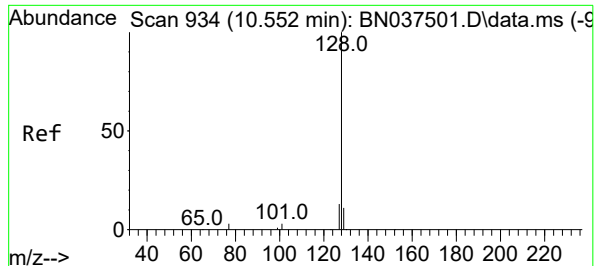
Tgt Ion	136	137	54	68
Ratio	100	12.5	11.1	8.2
Lower		9.8	6.6	5.0
Upper		14.8	9.8#	7.6#



#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	128	54
Ratio	100	43.8	64.4
Lower		37.5	45.3
Upper		56.3	67.9

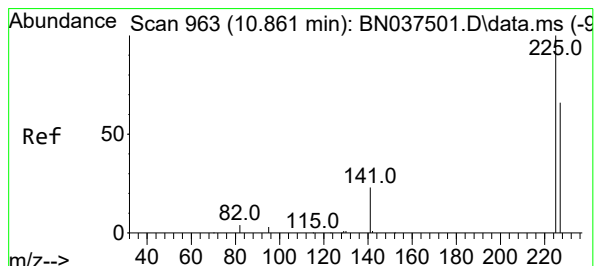
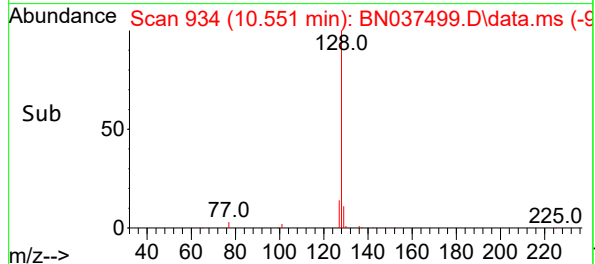
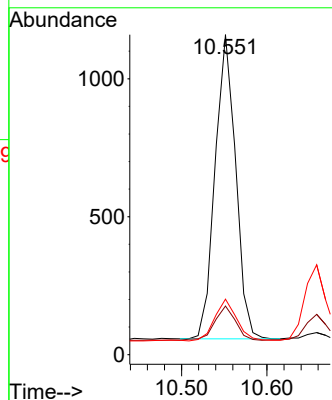
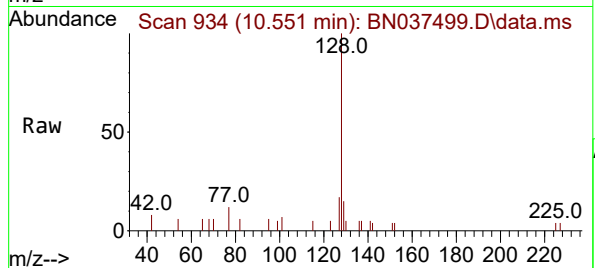




#9
Naphthalene
Concen: 0.100 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

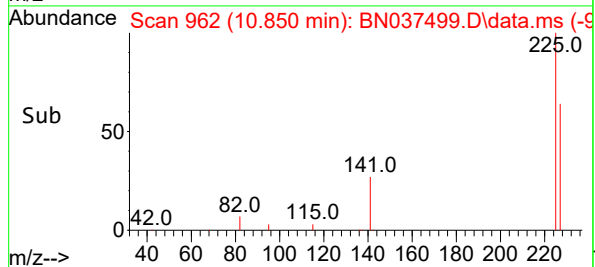
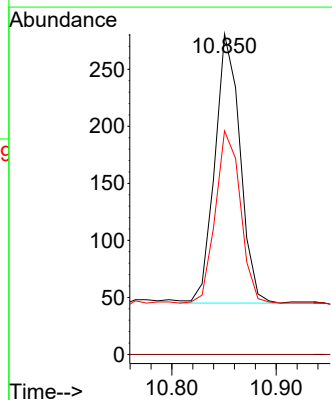
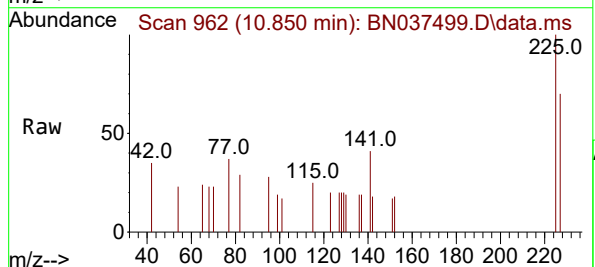
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

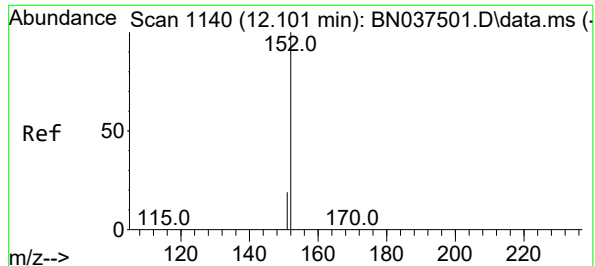
Tgt Ion:128 Resp: 1848
Ion Ratio Lower Upper
128 100
129 15.2 9.7 14.5#
127 17.3 11.5 17.3#



#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

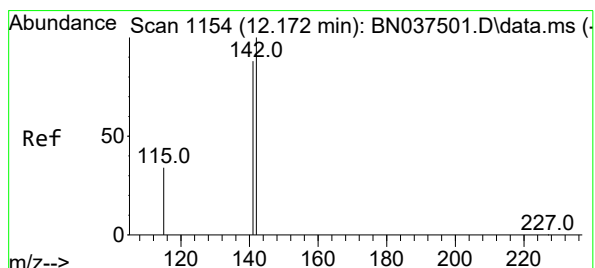
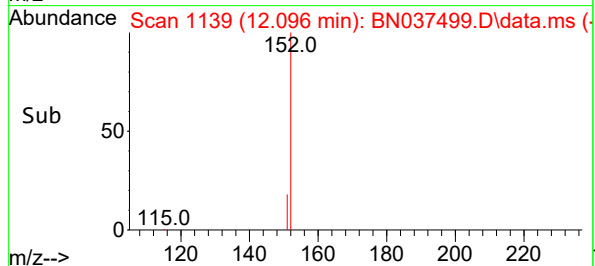
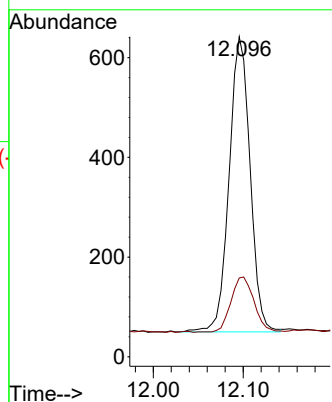
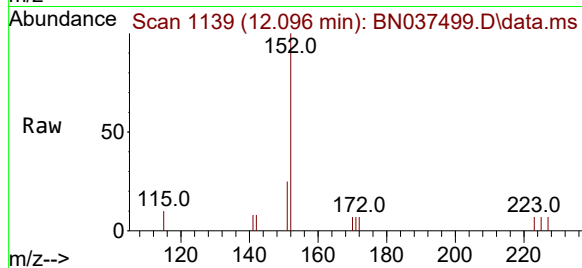




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

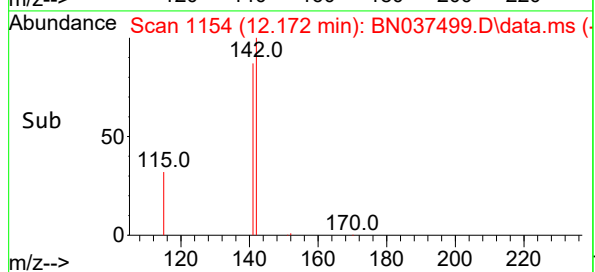
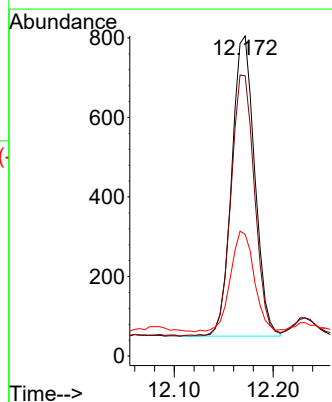
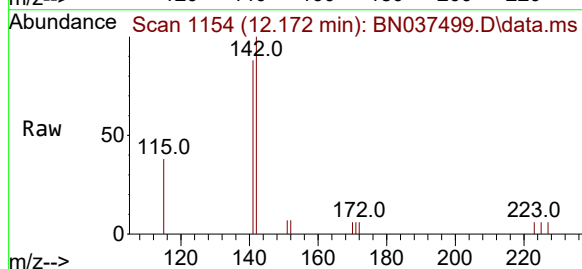
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

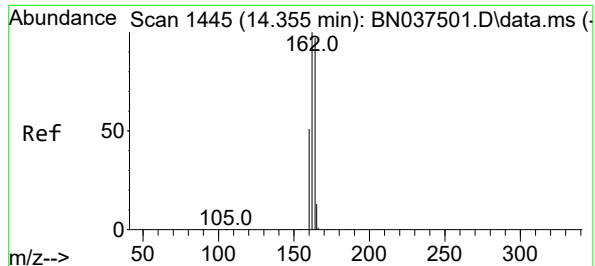
Tgt Ion:152 Resp: 962
Ion Ratio Lower Upper
152 100
151 20.3 16.8 25.2



#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

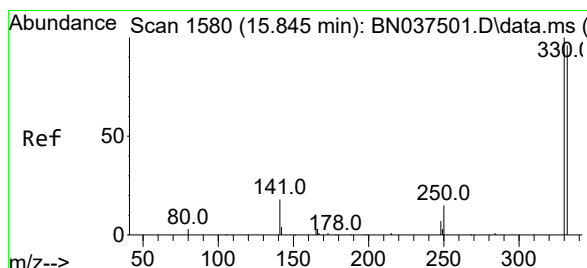
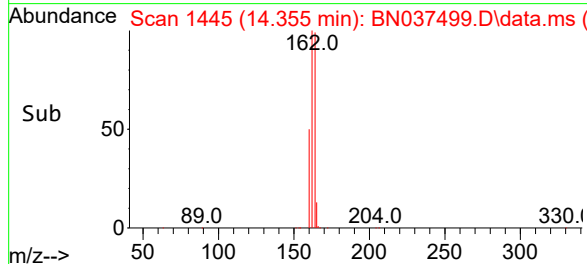
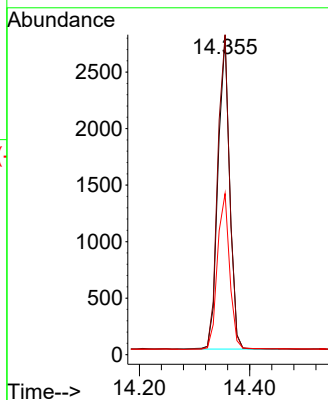
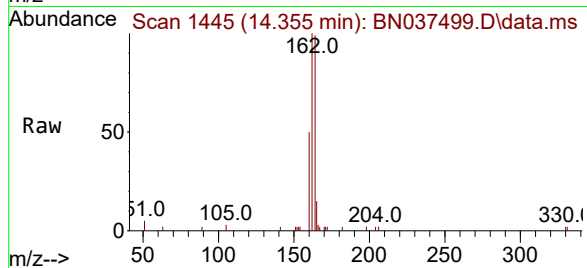




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

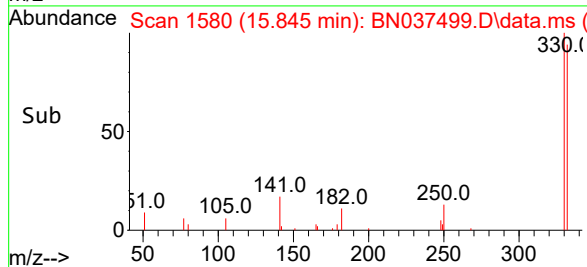
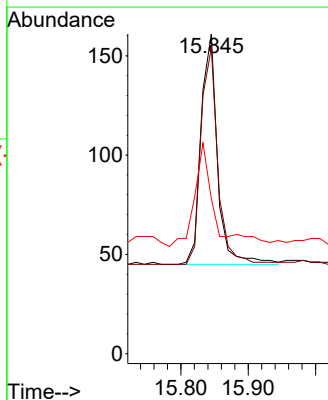
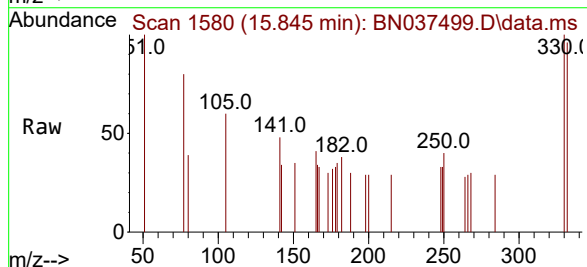
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

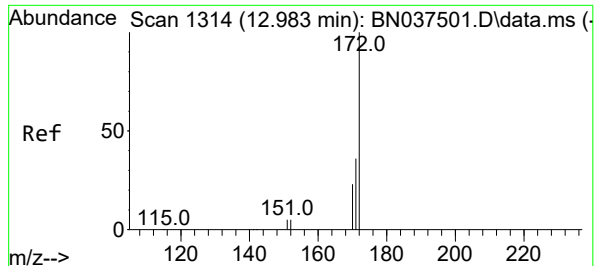
Tgt Ion:164 Resp: 4050
Ion Ratio Lower Upper
164 100
162 100.5 82.0 123.0
160 50.6 42.4 63.6



#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

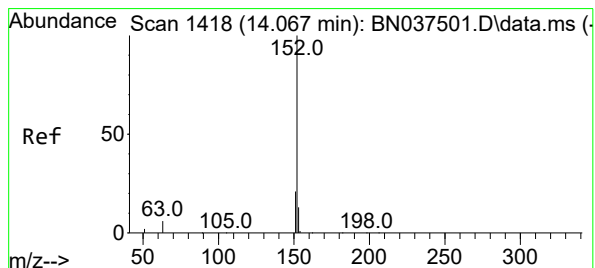
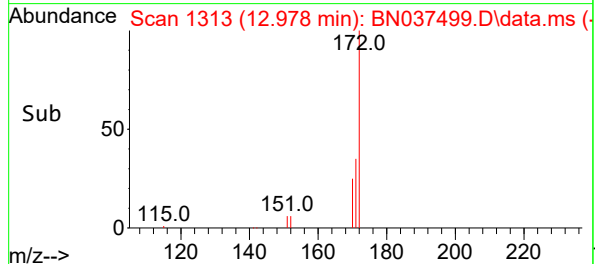
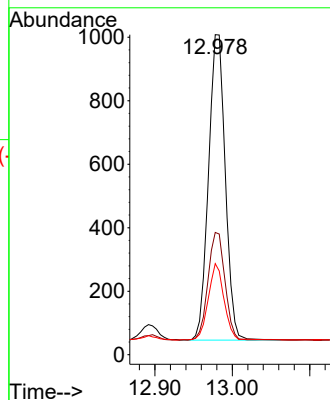
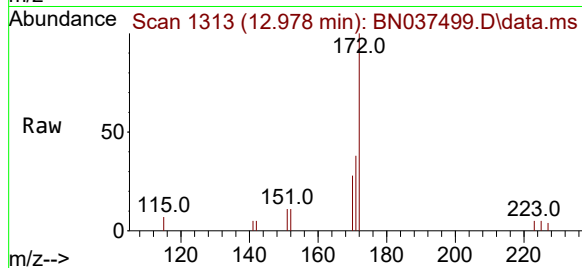




#15
2-Fluorobiphenyl
Concen: 0.087 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.005 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

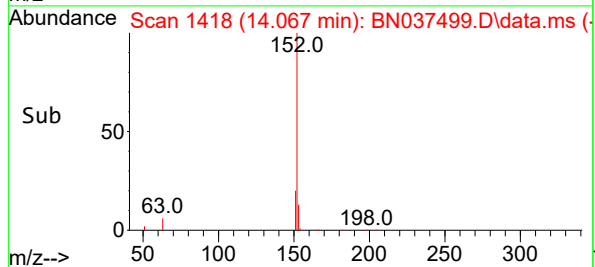
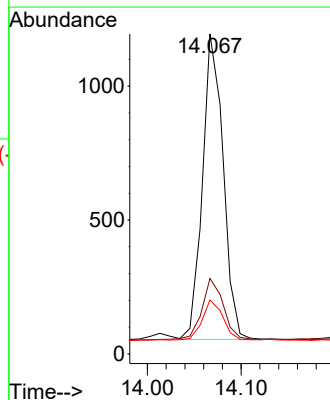
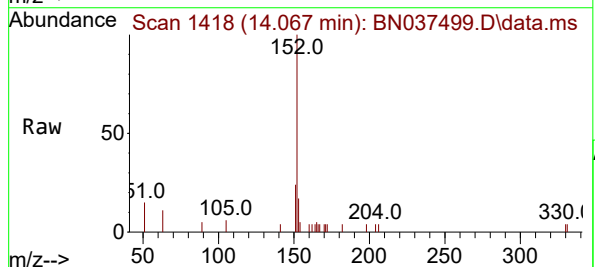
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

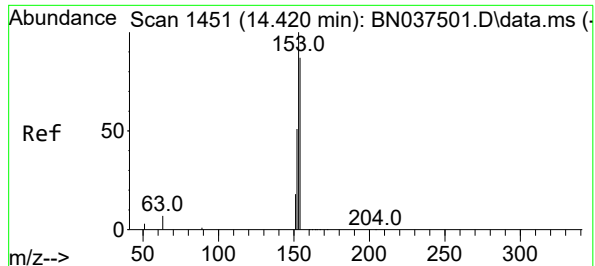
Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.2	29.4	44.2
170	28.5	19.4	29.0



#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	Ratio	Lower	Upper
152	100		
151	21.7	15.9	23.9
153	14.3	10.7	16.1

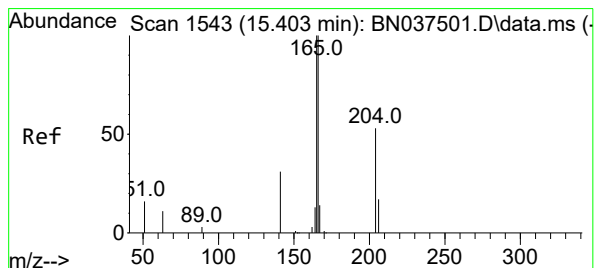
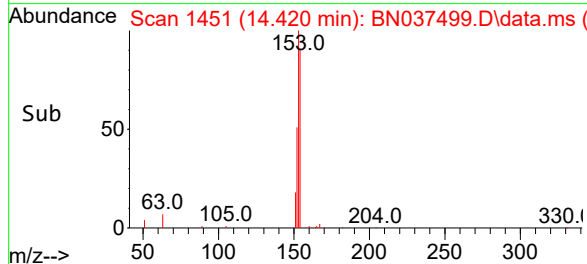
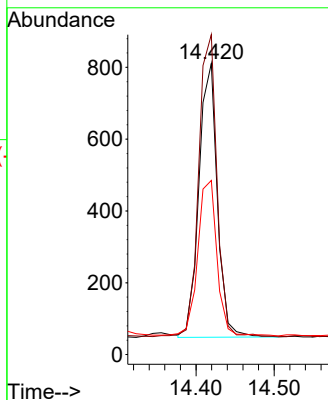
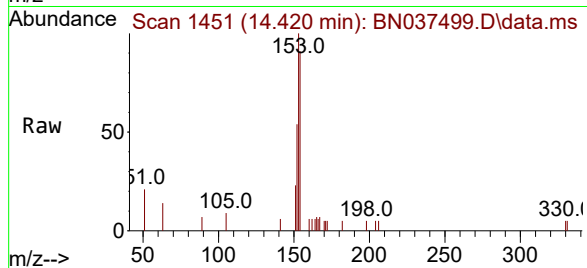




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

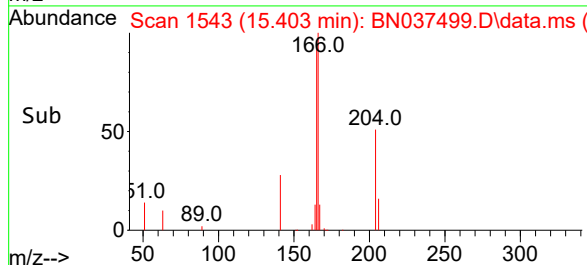
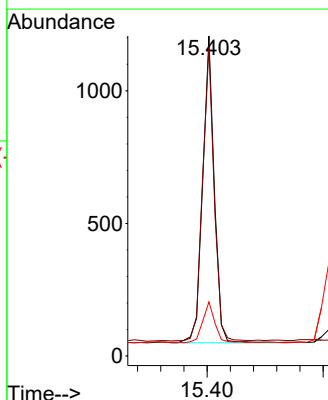
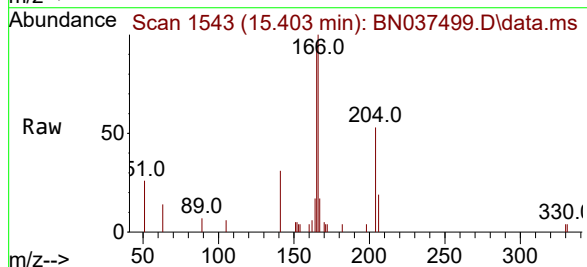
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

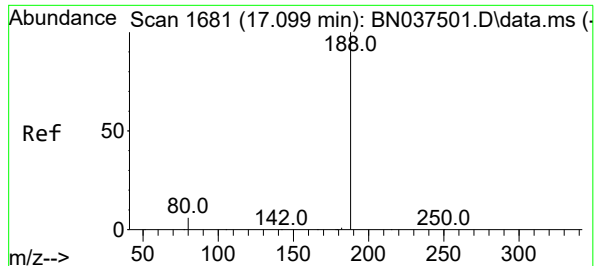
Tgt Ion:154 Resp: 1254
Ion Ratio Lower Upper
154 100
153 108.9 89.2 133.8
152 59.4 48.0 72.0



#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

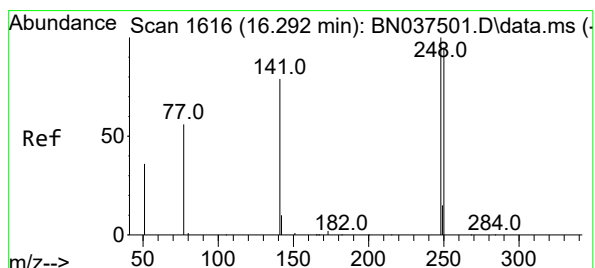
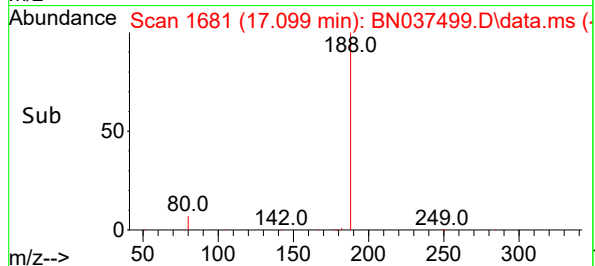
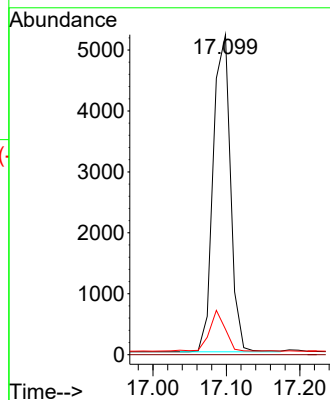
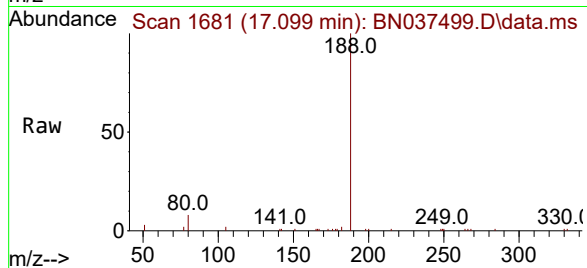
Tgt Ion:188 Resp: 8501

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

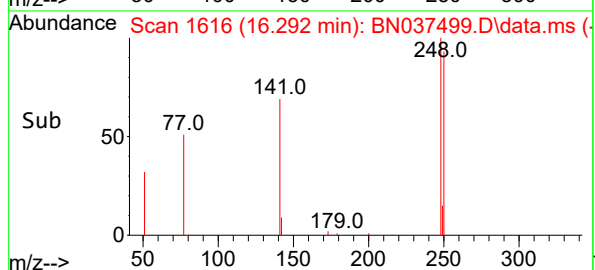
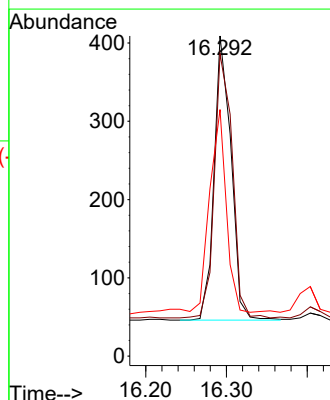
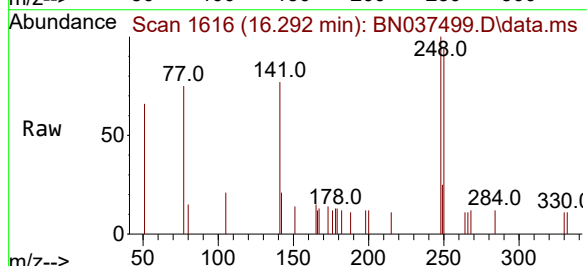
Tgt Ion:248 Resp: 527

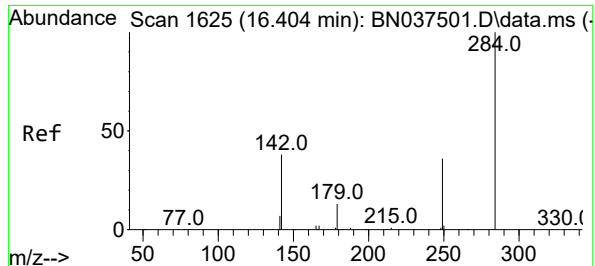
Ion Ratio Lower Upper

248 100

250 94.4 76.2 114.2

141 77.0 63.9 95.9

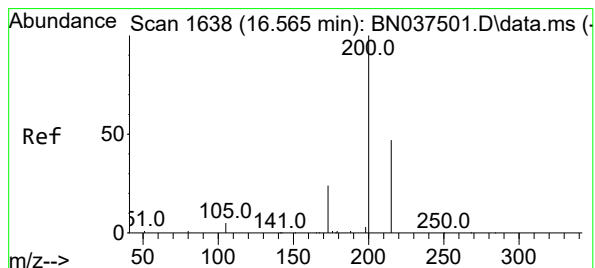
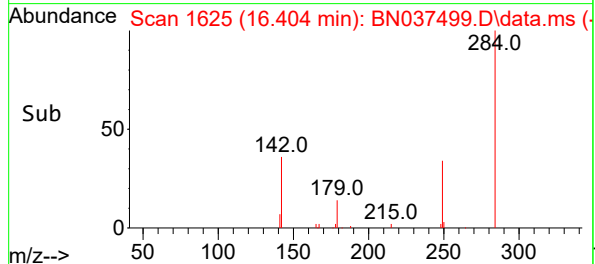
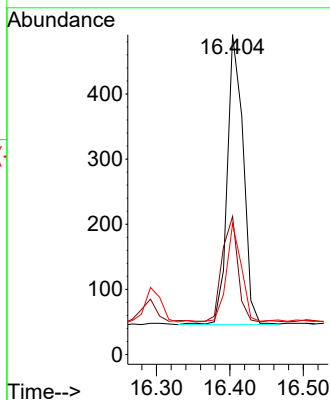
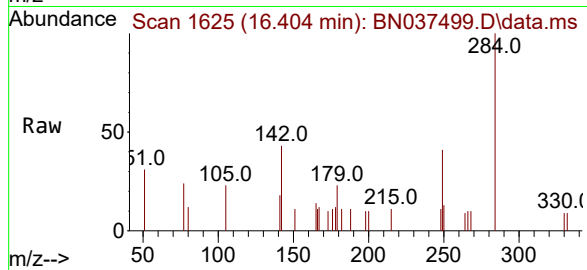




#22
Hexachlorobenzene
Concen: 0.095 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

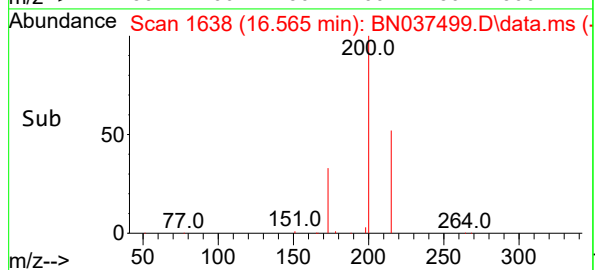
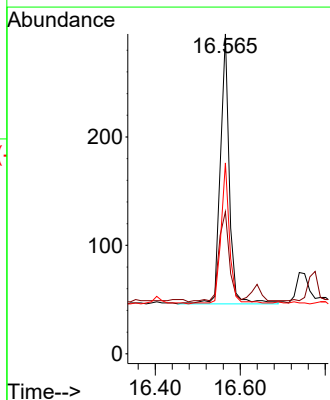
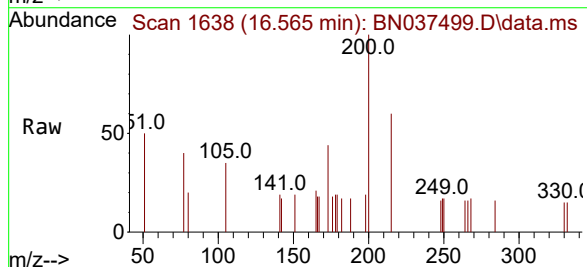
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

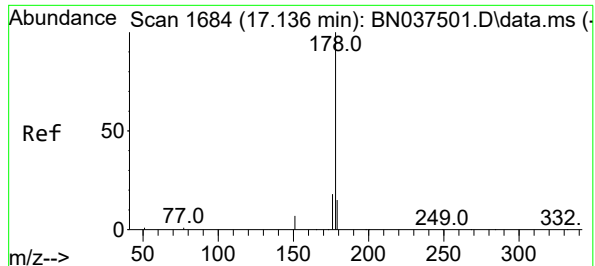
Tgt Ion:284 Resp: 670
Ion Ratio Lower Upper
284 100
142 36.1 28.9 43.3
249 32.4 25.8 38.6



#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 :

SSTDIC0.1

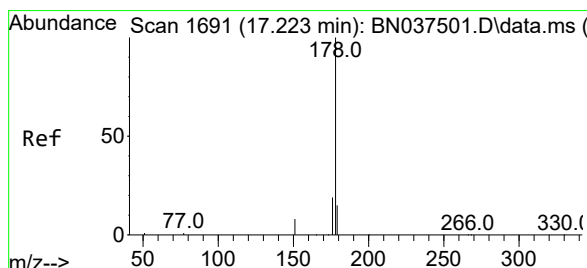
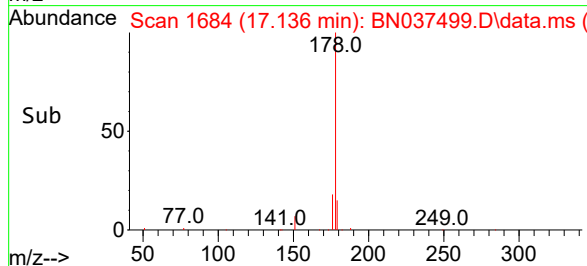
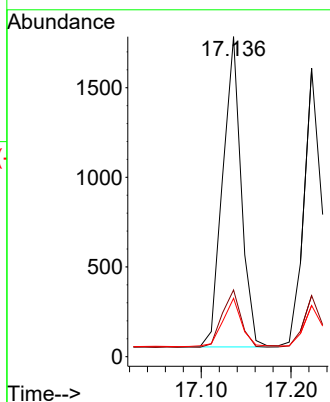
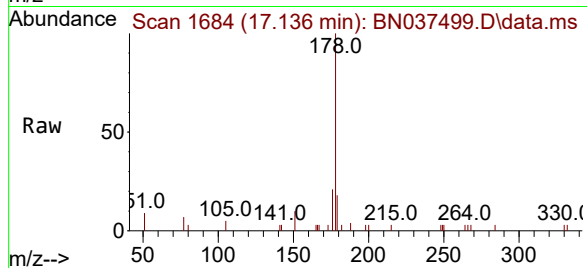
Tgt Ion:178 Resp: 2480

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

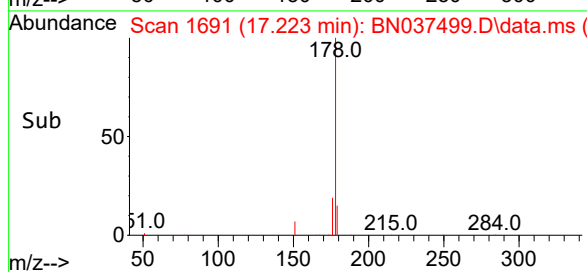
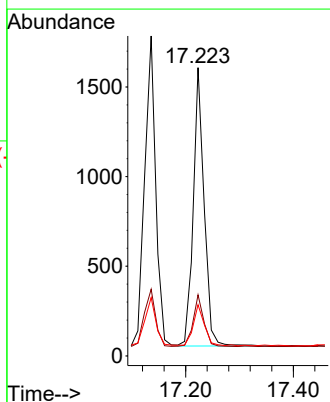
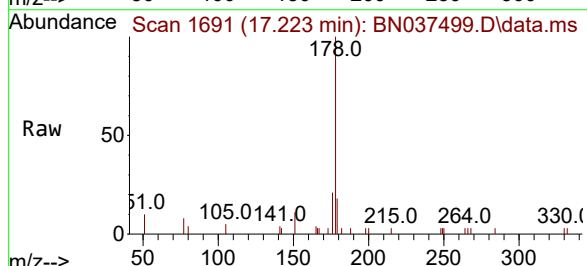
Tgt Ion:178 Resp: 2179

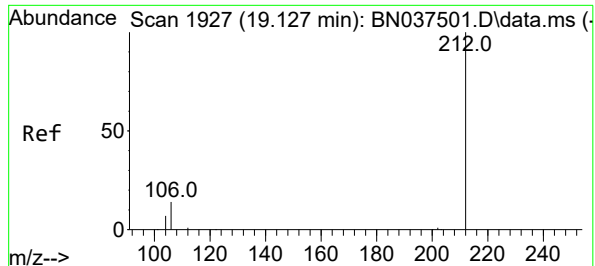
Ion Ratio Lower Upper

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 :

SSTDICC0.1

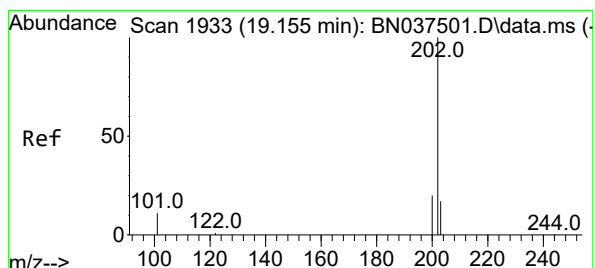
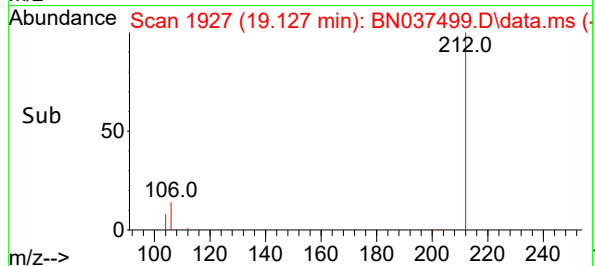
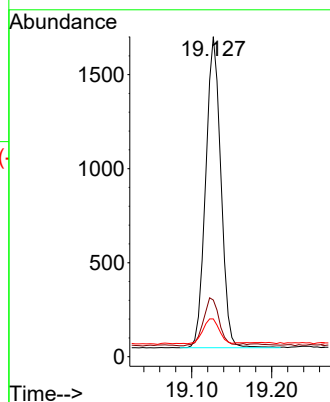
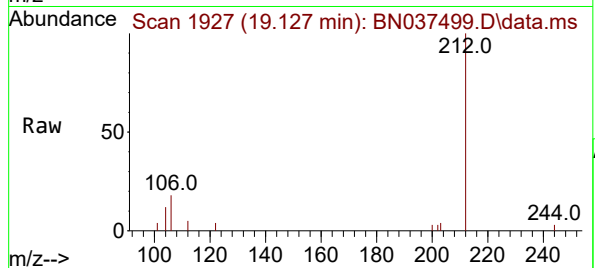
Tgt Ion:212 Resp: 2175

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

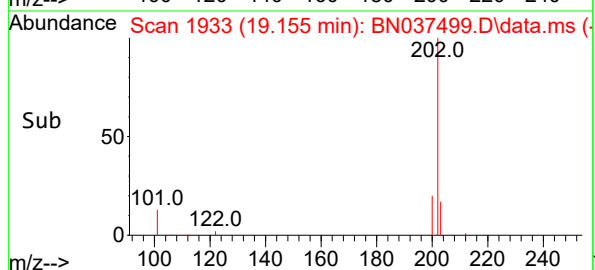
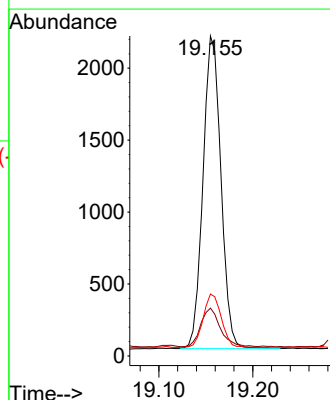
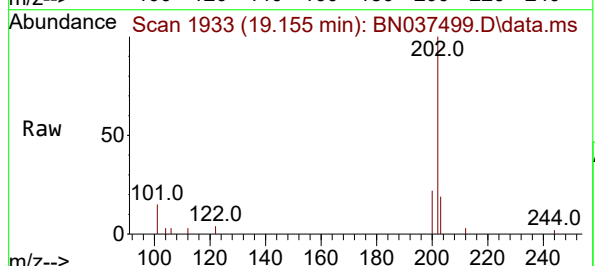
Tgt Ion:202 Resp: 2886

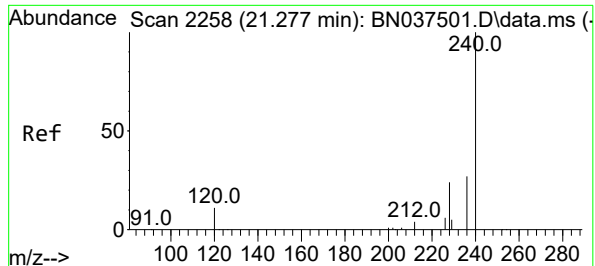
Ion Ratio Lower Upper

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 :

SSTDIC0.1

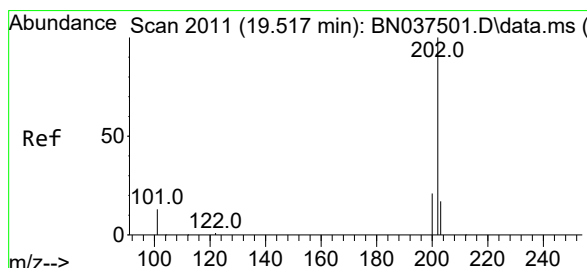
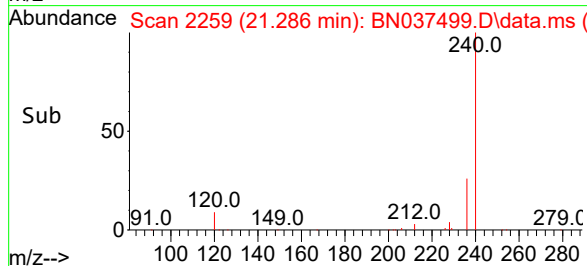
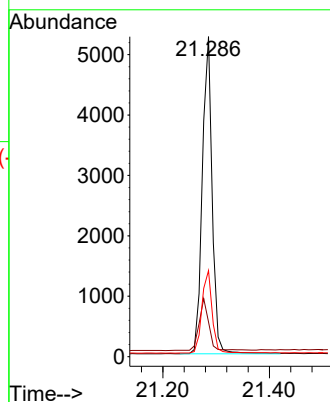
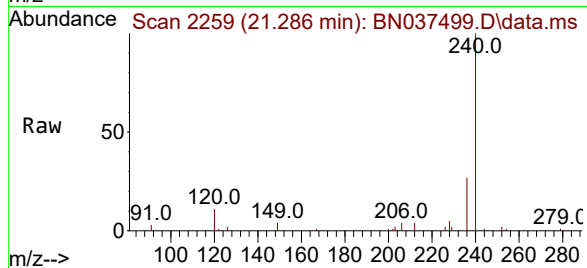
Tgt Ion:240 Resp: 6753

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

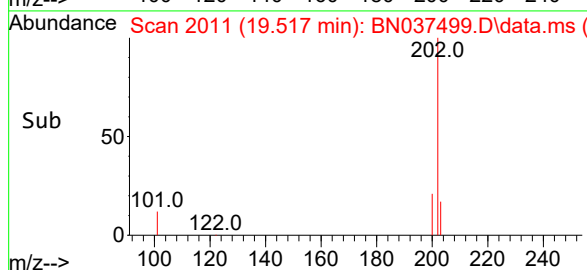
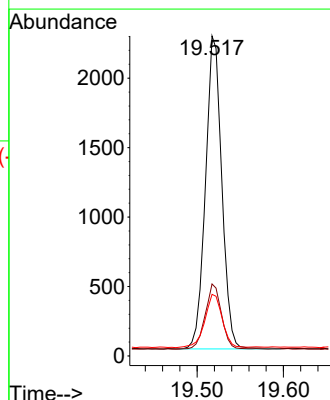
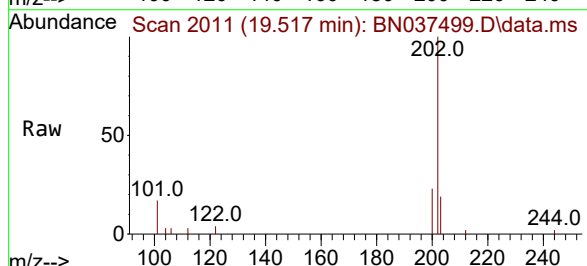
Tgt Ion:202 Resp: 2961

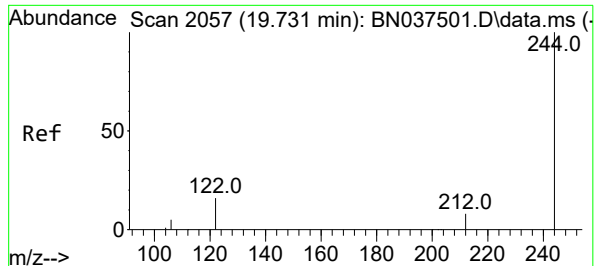
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 18.2 14.3 21.5

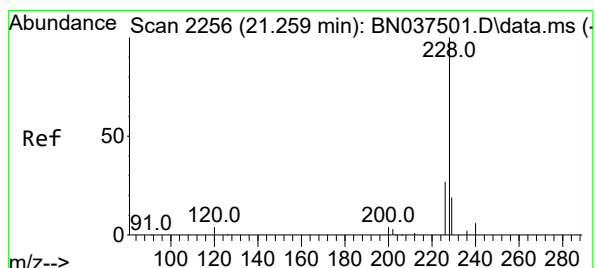
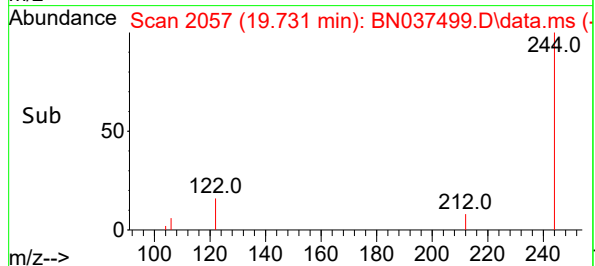
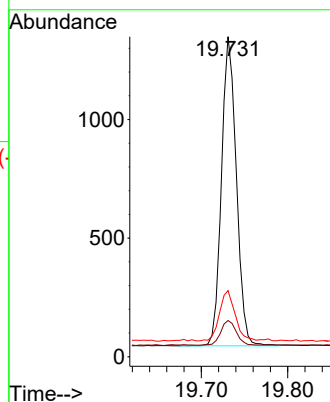
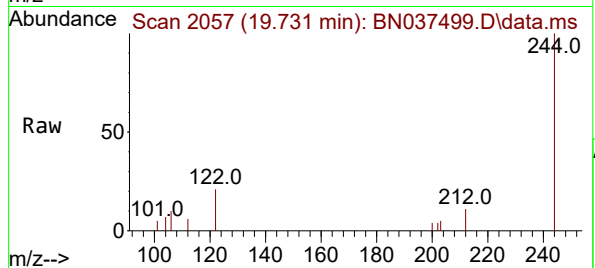




#31
Terphenyl-d14
Concen: 0.108 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

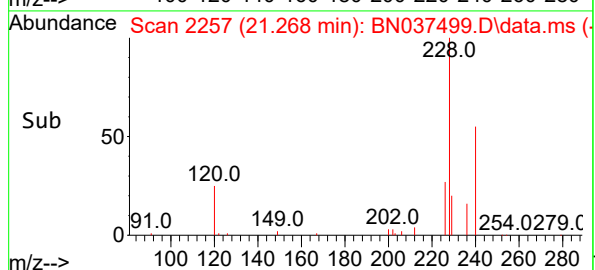
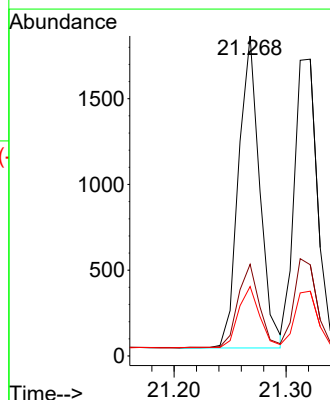
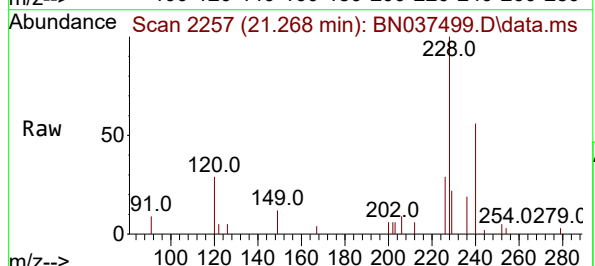
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

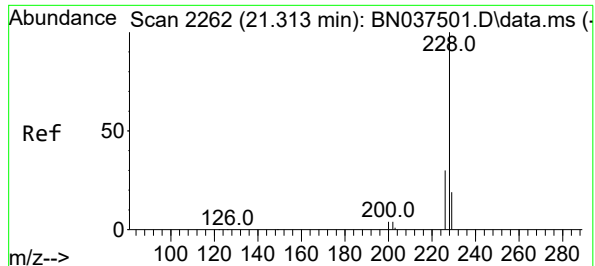
Tgt Ion:244 Resp: 1563
Ion Ratio Lower Upper
244 100
212 11.3 7.4 11.2#
122 20.7 13.6 20.4#



#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

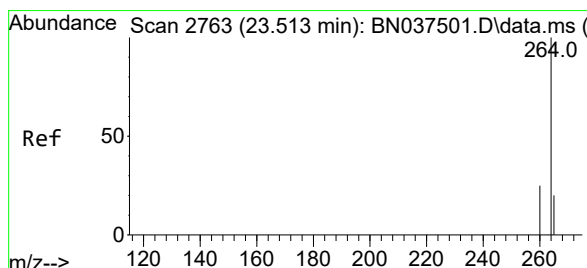
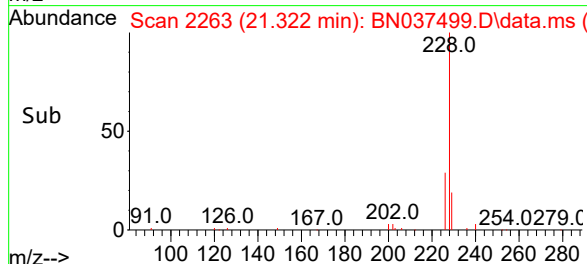
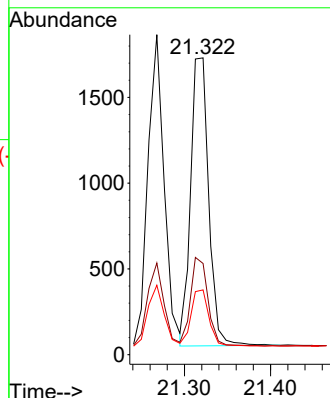
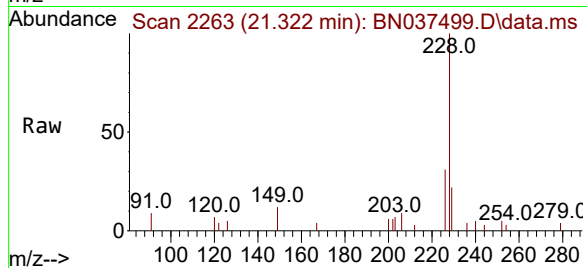
Tgt Ion:228 Resp: 2451

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

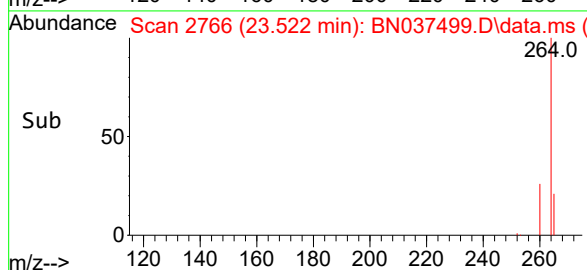
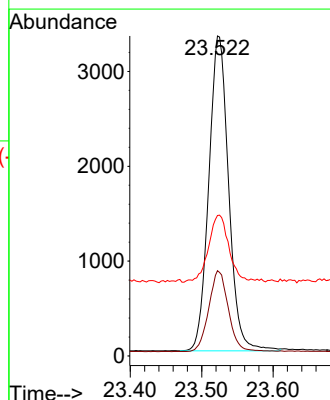
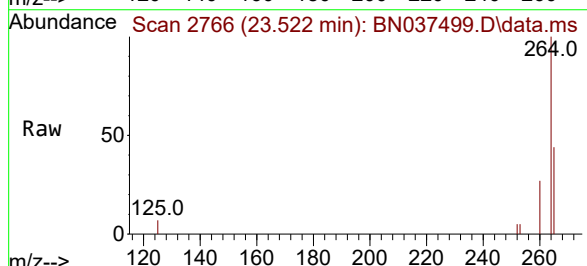
Tgt Ion:264 Resp: 6399

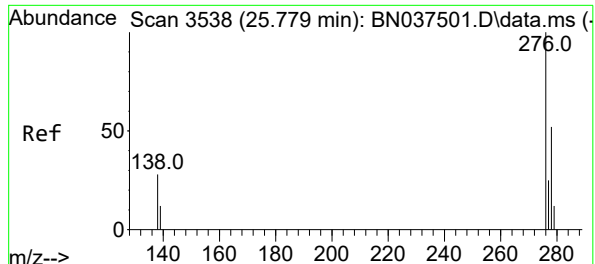
Ion Ratio Lower Upper

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# 3542

Delta R.T. 0.012 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

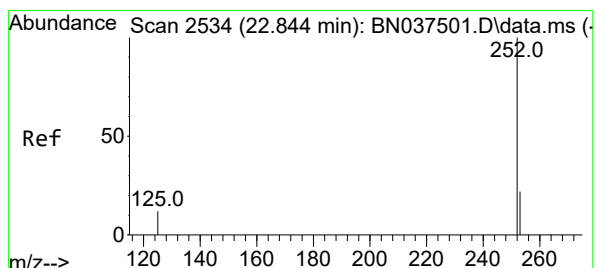
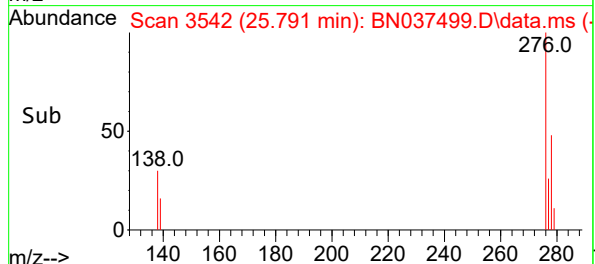
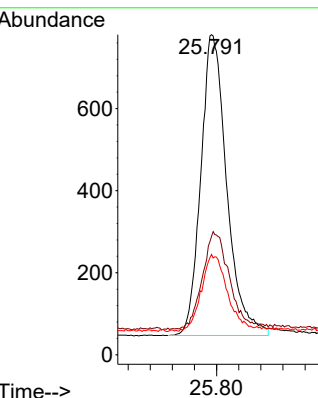
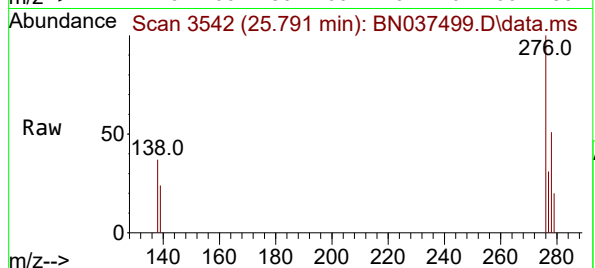
Tgt Ion:276 Resp: 2389

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

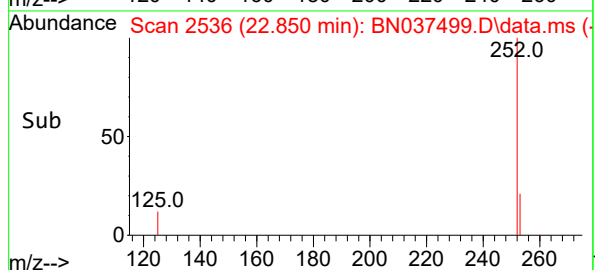
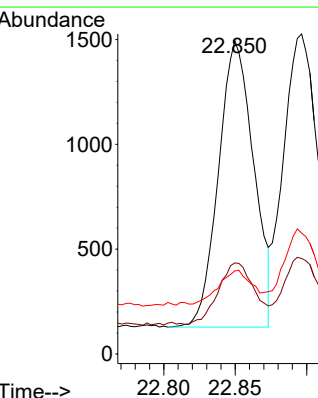
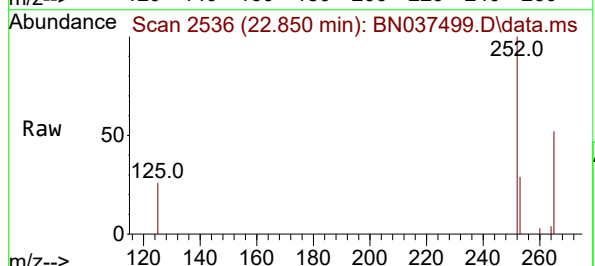
Tgt Ion:252 Resp: 2342

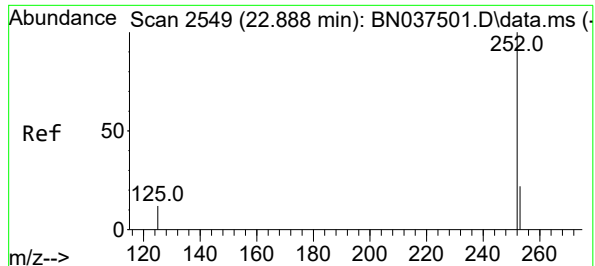
Ion Ratio Lower Upper

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

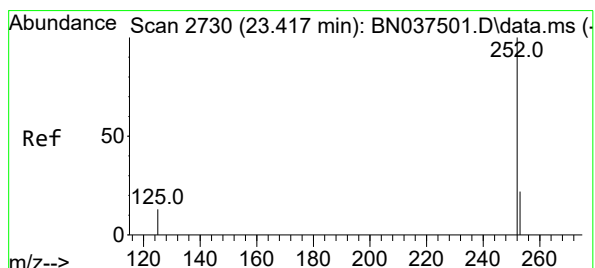
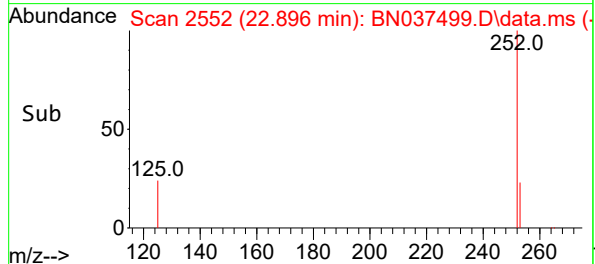
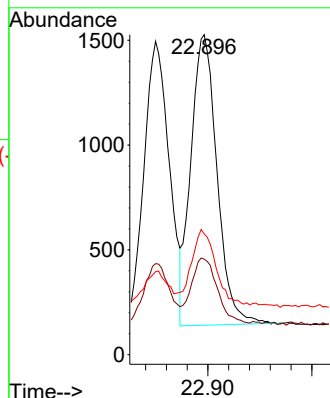
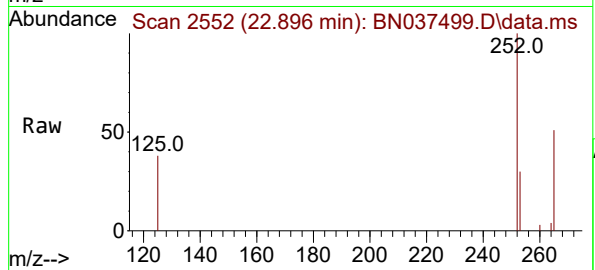
Tgt Ion:252 Resp: 2426

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

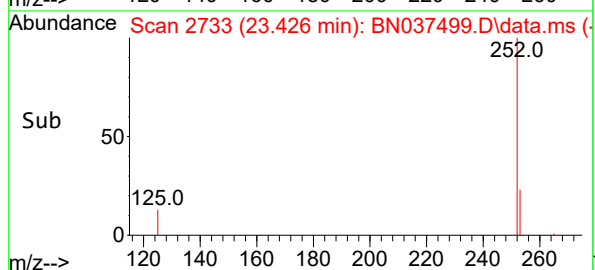
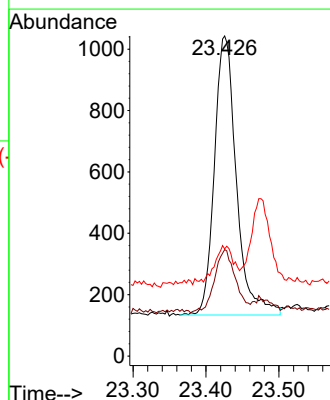
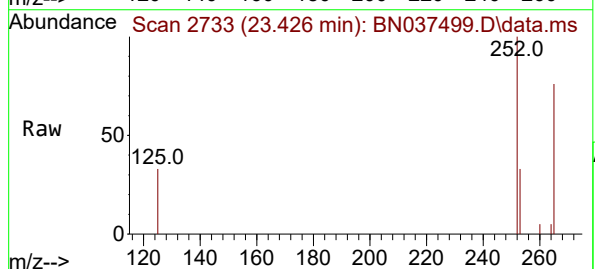
Tgt Ion:252 Resp: 1902

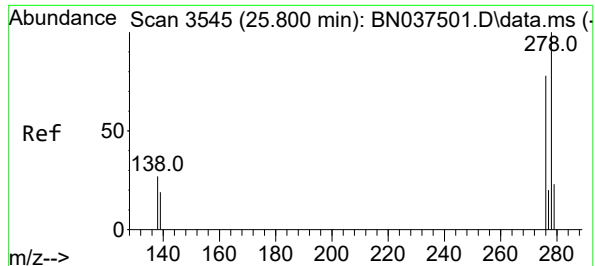
Ion Ratio Lower Upper

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

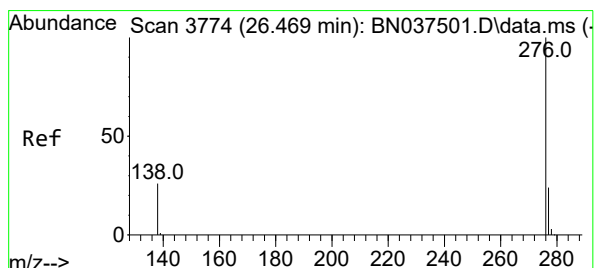
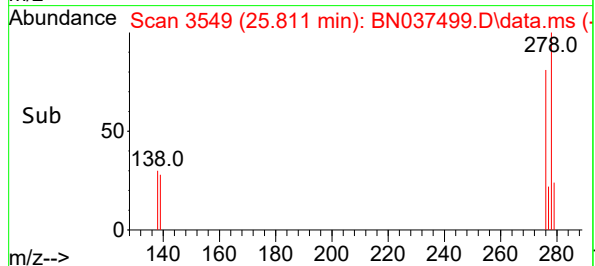
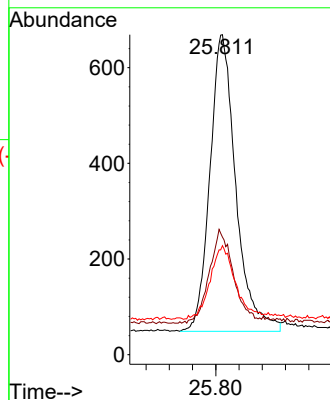
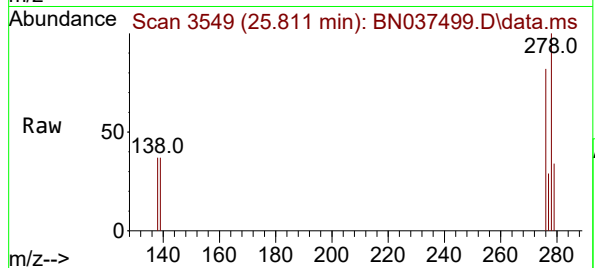
Tgt Ion:278 Resp: 1921

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

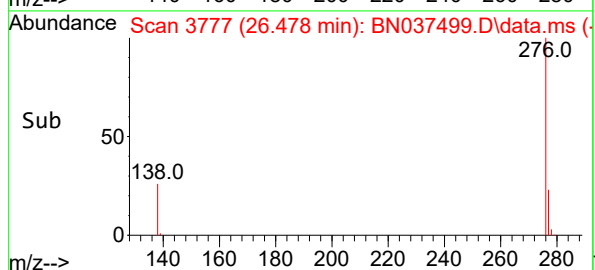
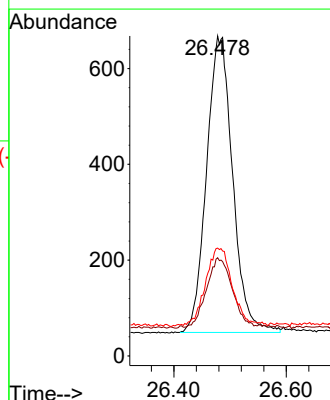
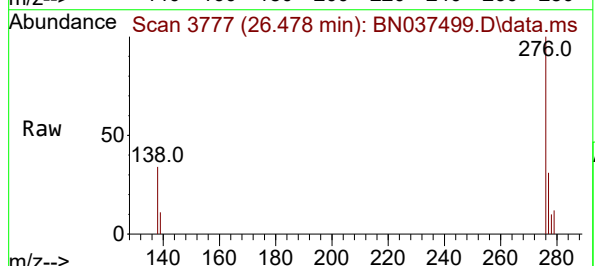
Tgt Ion:276 Resp: 1995

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)

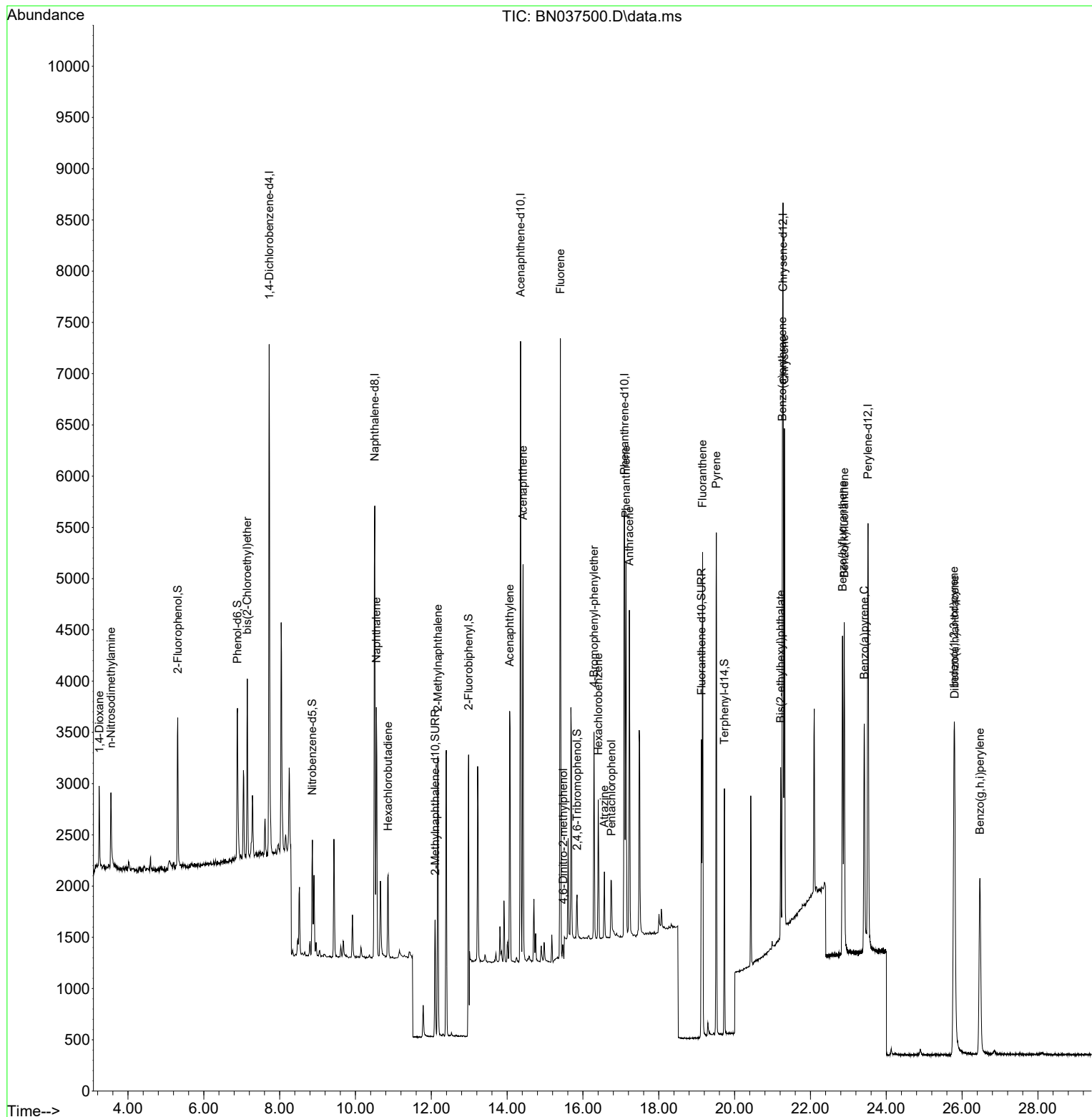
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2351	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6017	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3325	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6414	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5490	0.400	ng	# 0.00
35) Perylene-d12	23.519	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						
						Qvalue
2) 1,4-Dioxane	3.247	88	481	0.213	ng	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

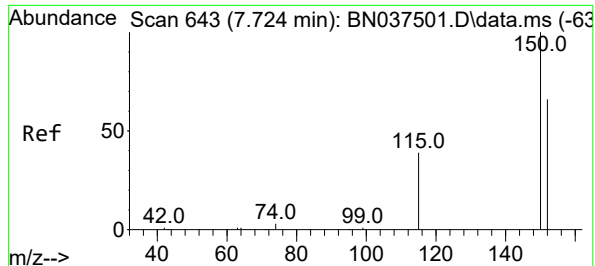
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

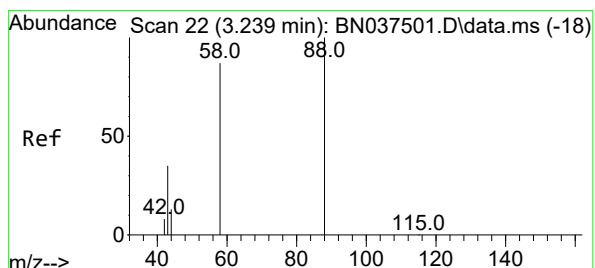
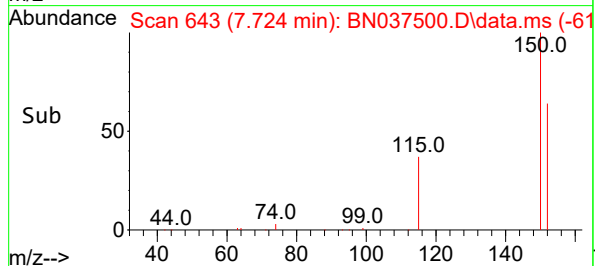
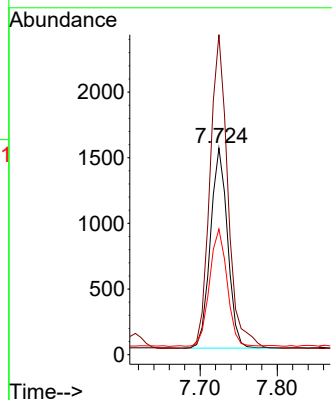
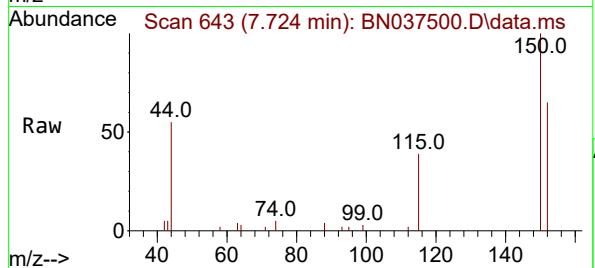




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

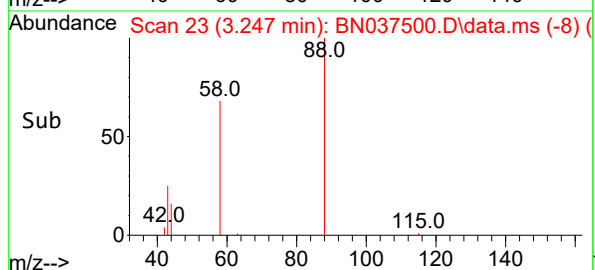
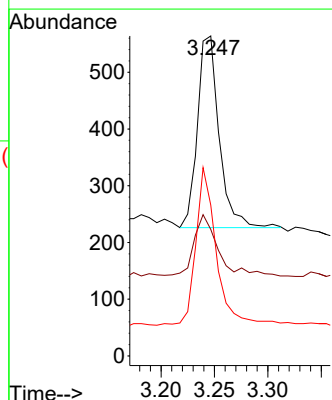
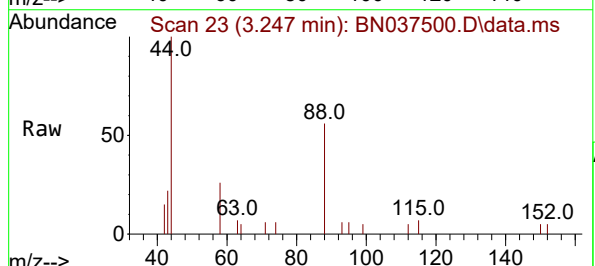
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

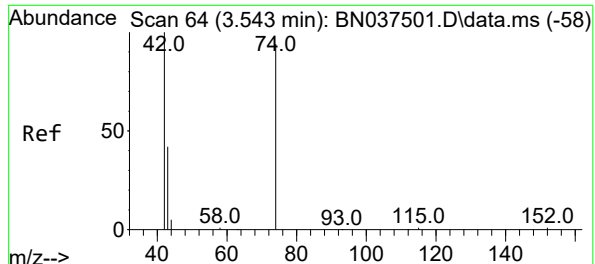
Tgt Ion:152 Resp: 2351
Ion Ratio Lower Upper
152 100
150 154.9 119.8 179.8
115 60.8 49.1 73.7



#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

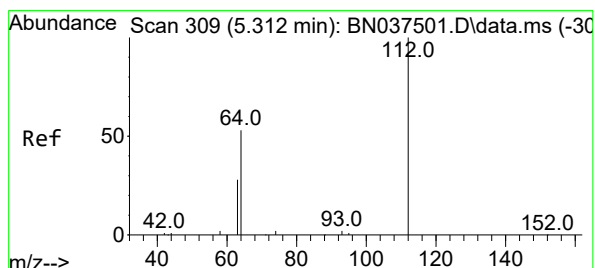
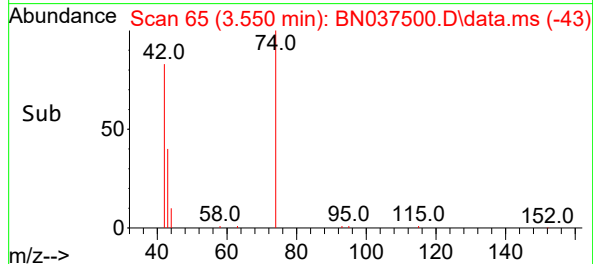
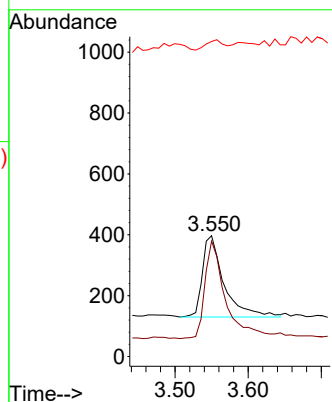
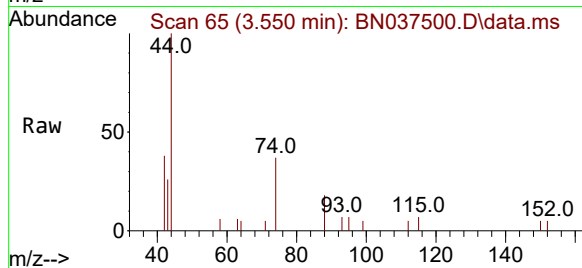




#3
n-Nitrosodimethylamine
Concen: 0.193 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

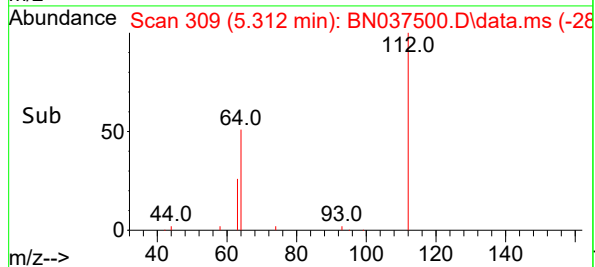
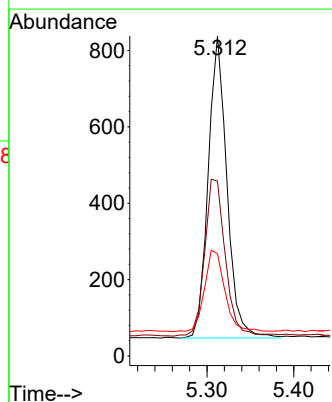
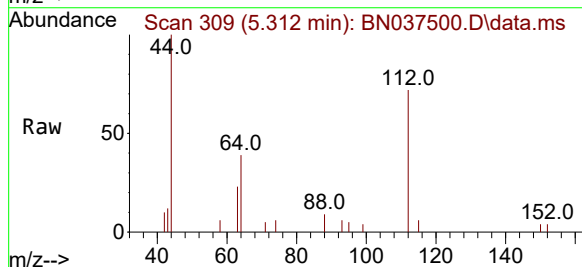
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

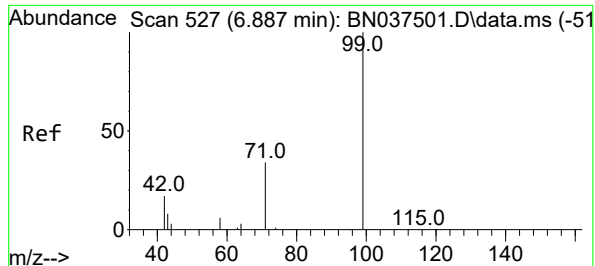
Tgt Ion: 42 Resp: 548
Ion Ratio Lower Upper
42 100
74 119.2 91.8 137.6
44 9.9 15.0 22.6#



#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

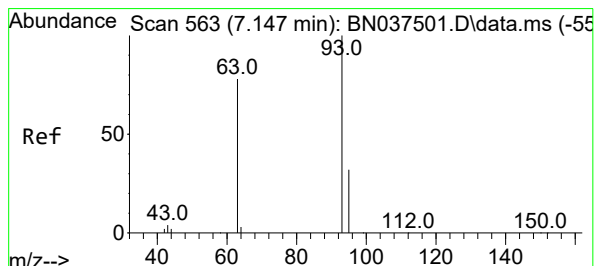
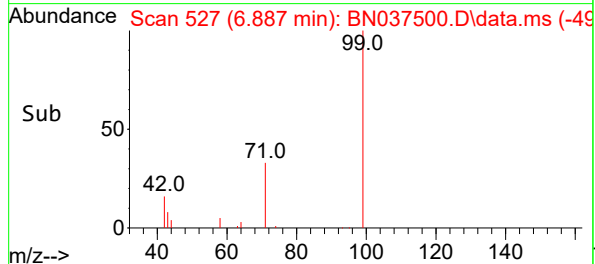
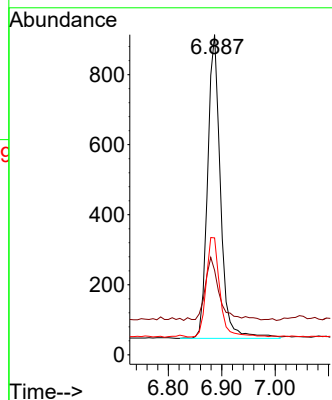
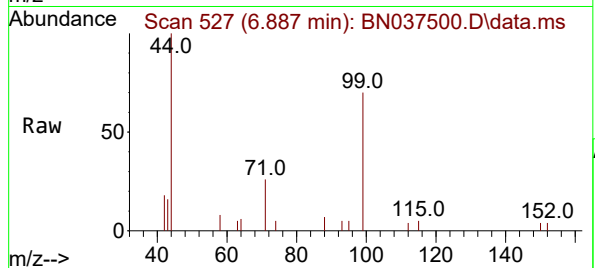




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

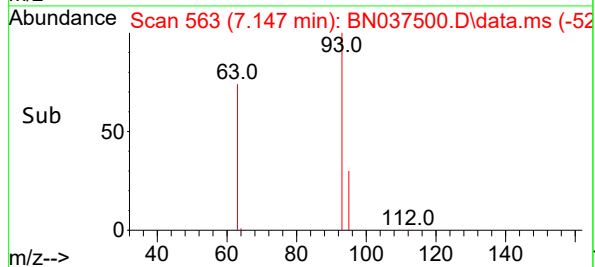
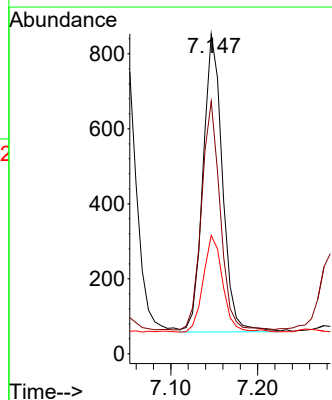
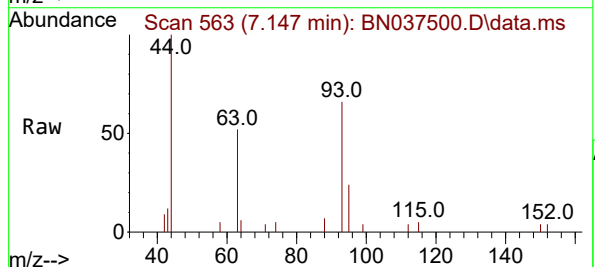
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

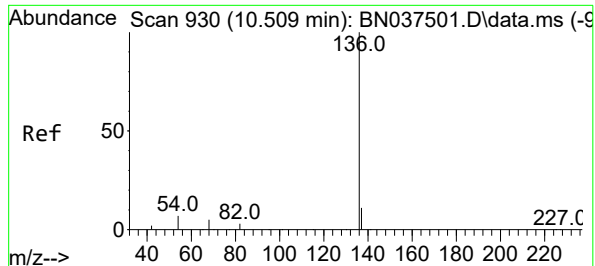
Tgt Ion: 99 Resp: 1455
Ion Ratio Lower Upper
99 100
42 22.1 17.1 25.7
71 34.8 27.8 41.8



#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: 93 Resp: 1237
Ion Ratio Lower Upper
93 100
63 73.6 58.2 87.4
95 32.7 25.3 37.9

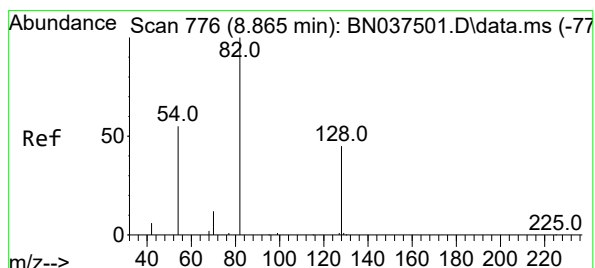
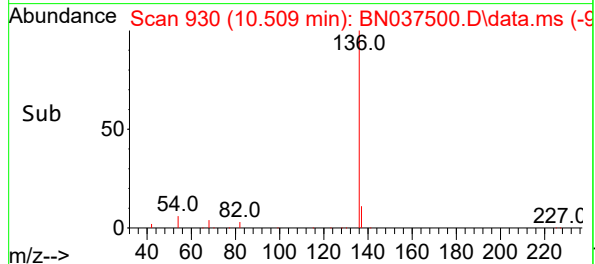
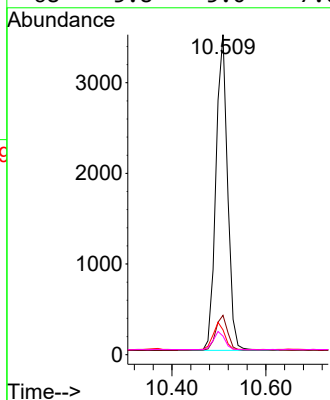
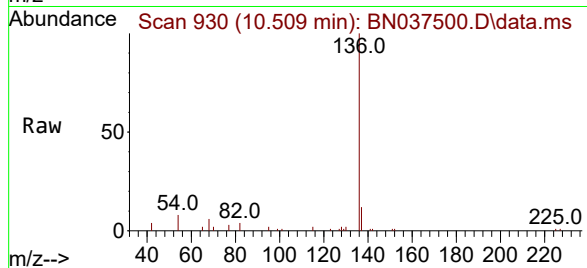




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

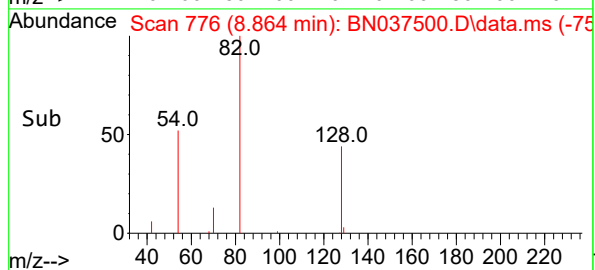
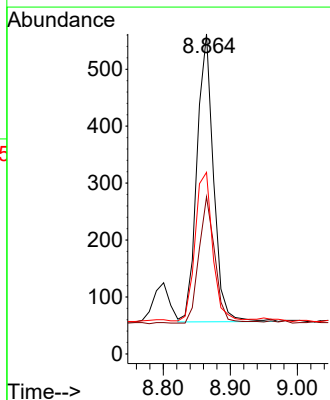
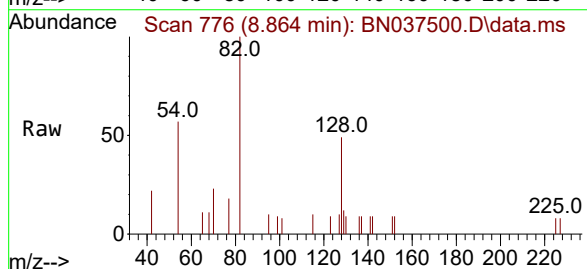
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

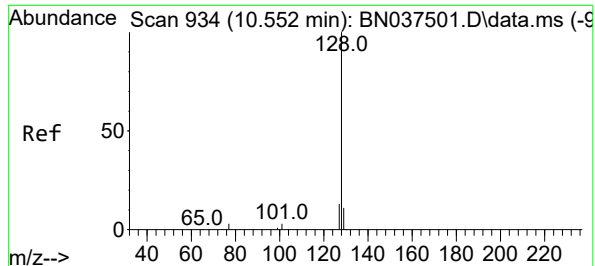
Tgt Ion:	136	Resp:	6017
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	7.7	6.6	9.8
68	5.8	5.0	7.6



#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

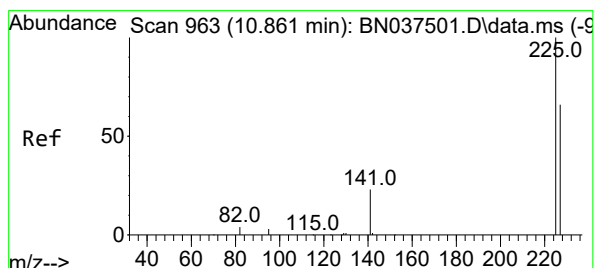
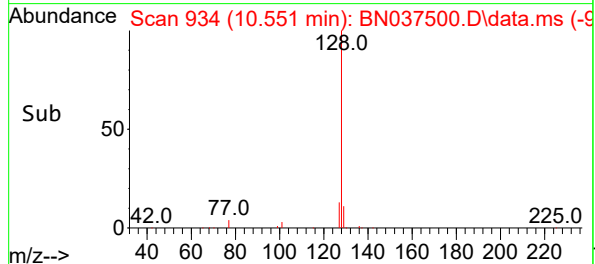
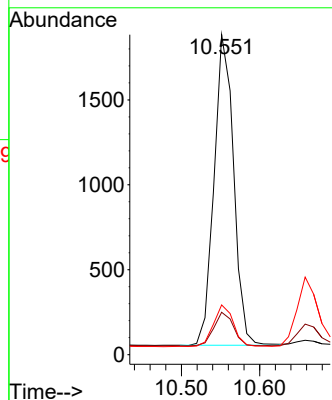
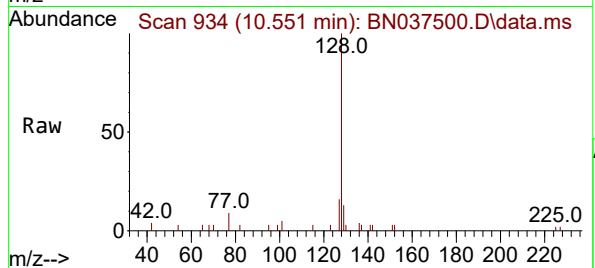




#9
Naphthalene
Concen: 0.198 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

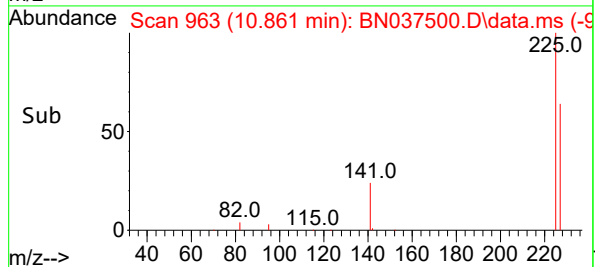
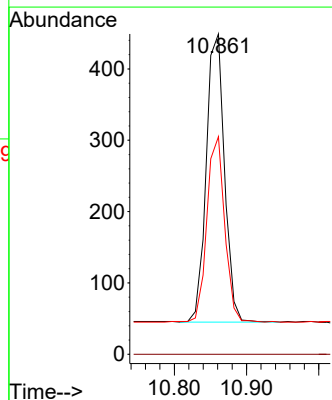
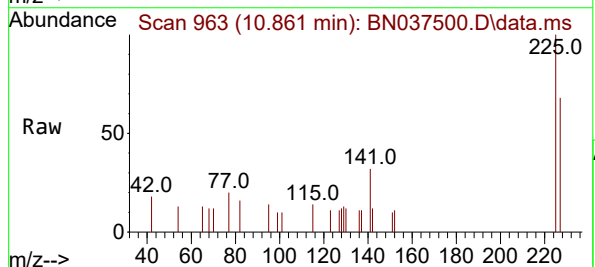
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

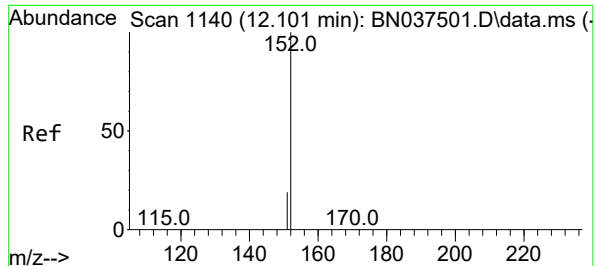
Tgt Ion:128 Resp: 3170
Ion Ratio Lower Upper
128 100
129 13.2 9.7 14.5
127 15.6 11.5 17.3



#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

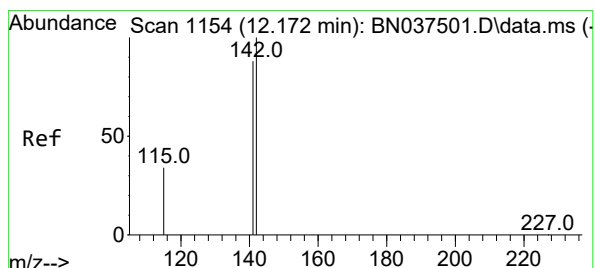
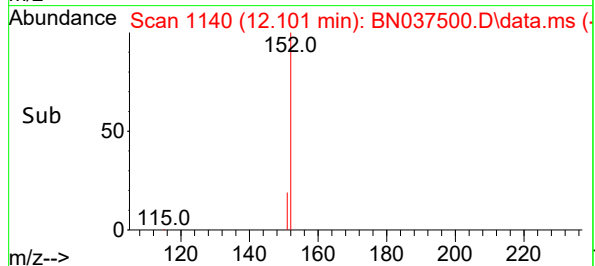
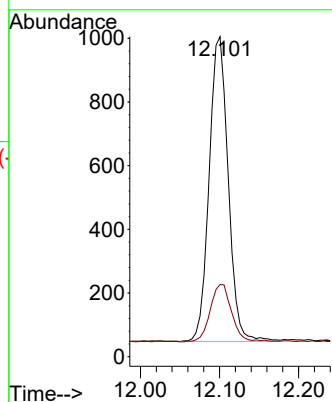
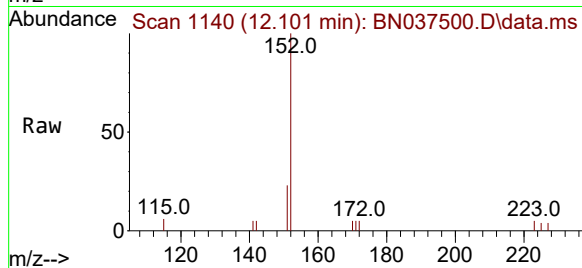




#11
2-Methylnaphthalene-d10
Concen: 0.186 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

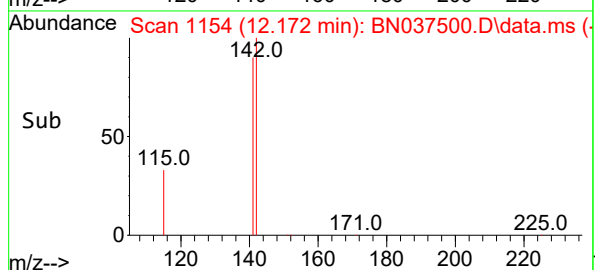
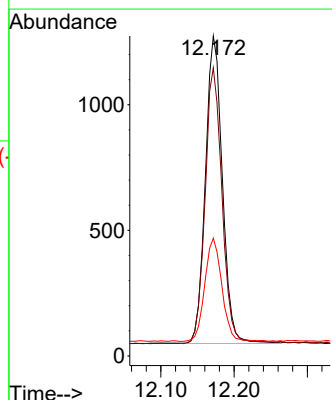
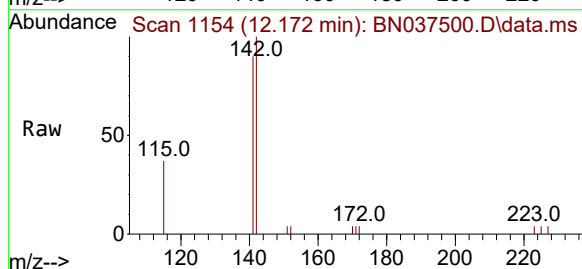
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

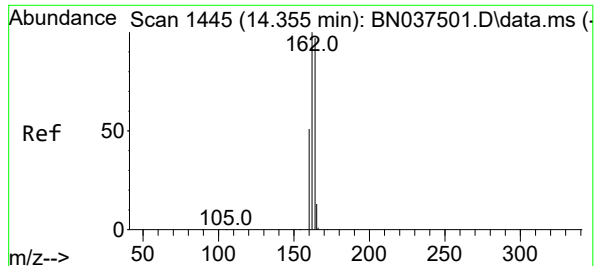
Tgt Ion:152 Resp: 1606
Ion Ratio Lower Upper
152 100
151 21.2 16.8 25.2



#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 :

SSTDICC0.2

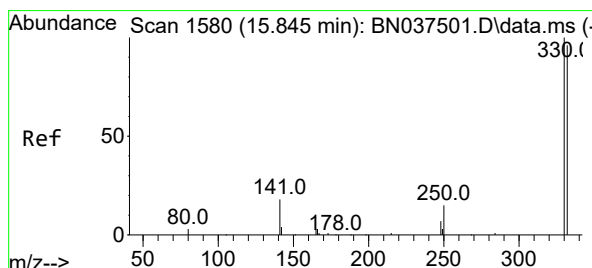
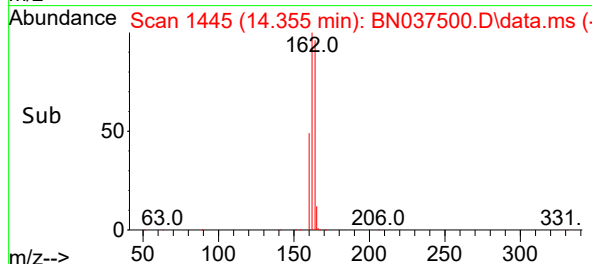
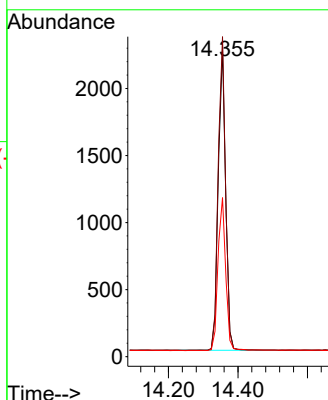
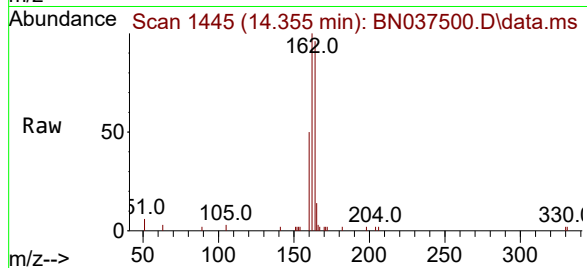
Tgt Ion:164 Resp: 3325

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

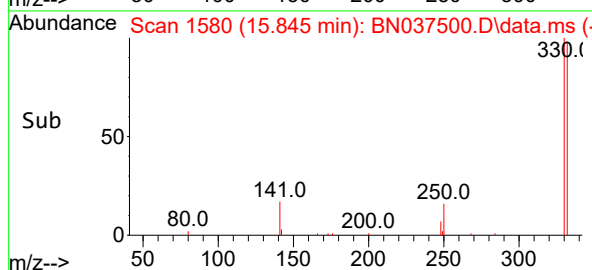
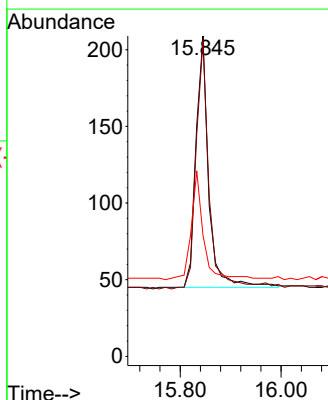
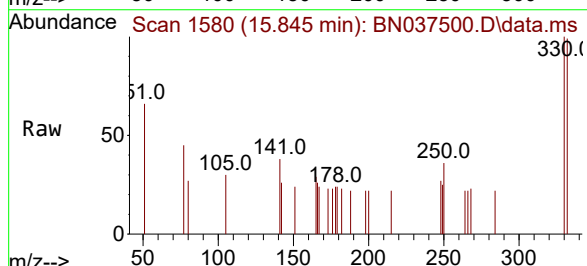
Tgt Ion:330 Resp: 288

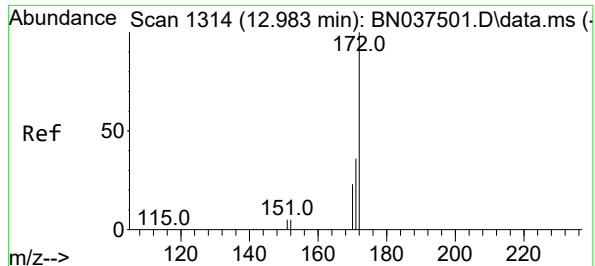
Ion	Ratio	Lower	Upper
-----	-------	-------	-------

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

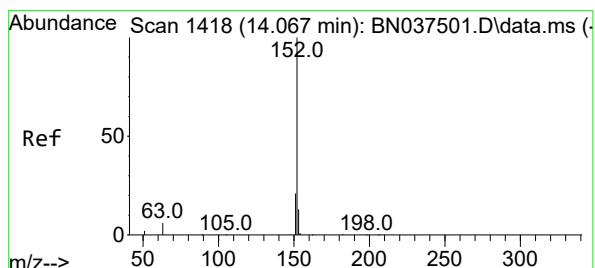
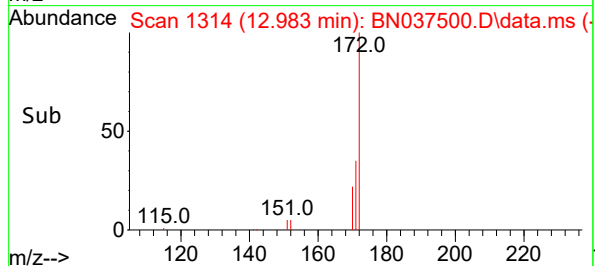
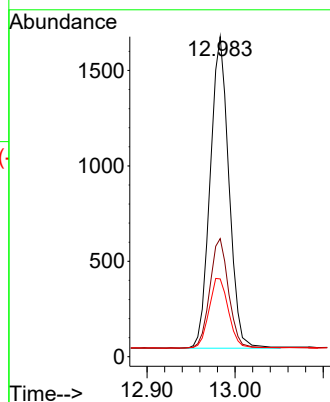
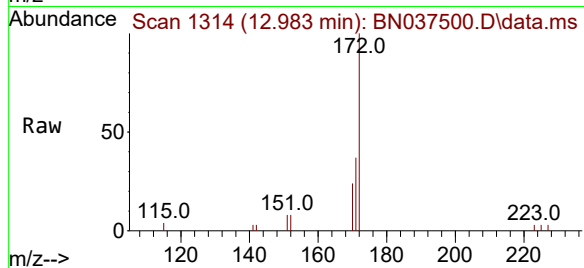
Tgt Ion:172 Resp: 2983

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

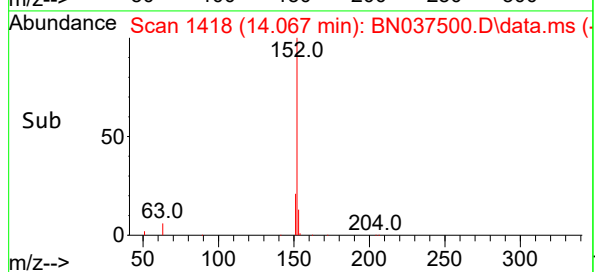
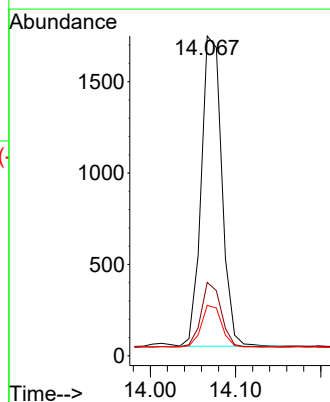
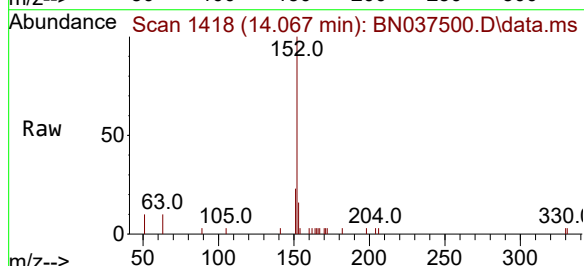
Tgt Ion:152 Resp: 2840

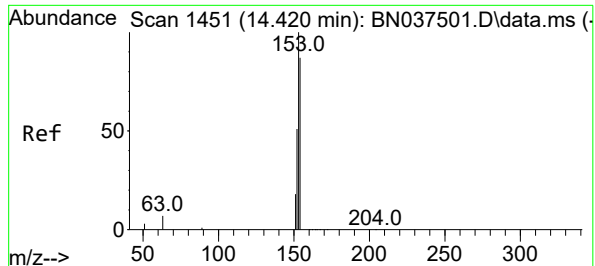
Ion Ratio Lower Upper

152 100

151 21.3 15.9 23.9

153 13.2 10.7 16.1

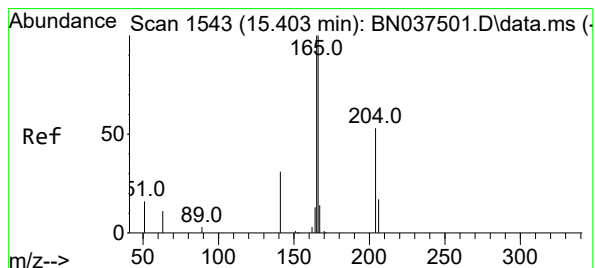
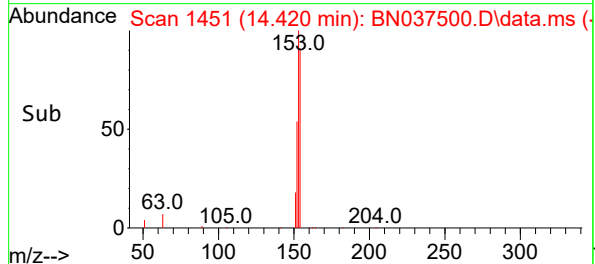
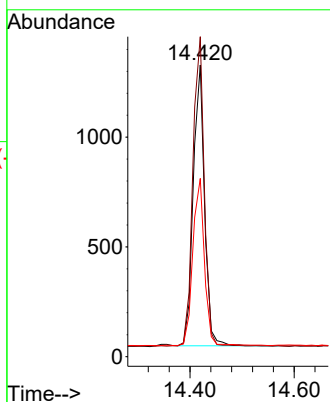
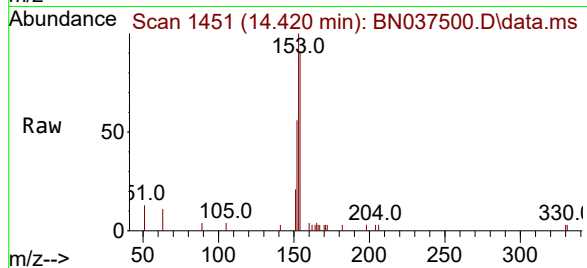




#17
Acenaphthene
Concen: 0.190 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

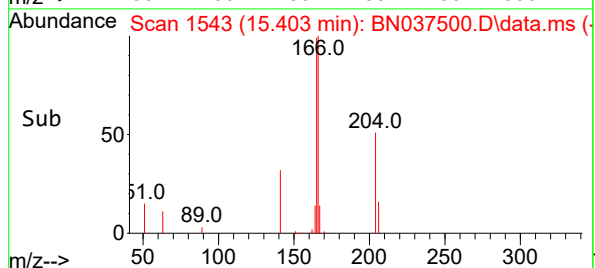
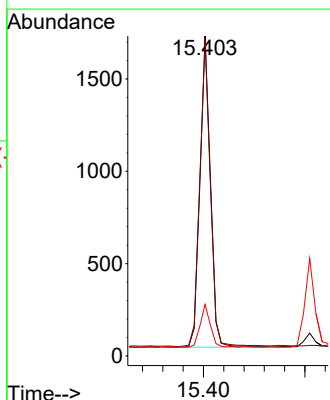
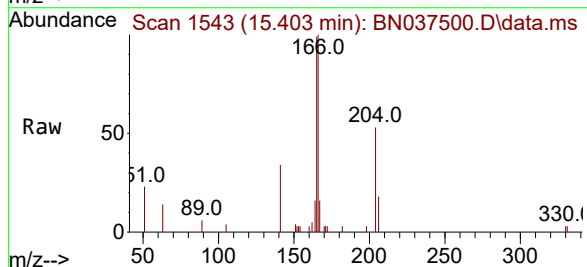
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

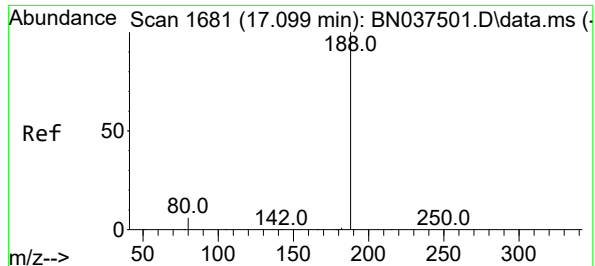
Tgt Ion:154 Resp: 1928
Ion Ratio Lower Upper
154 100
153 111.4 89.2 133.8
152 61.5 48.0 72.0



#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

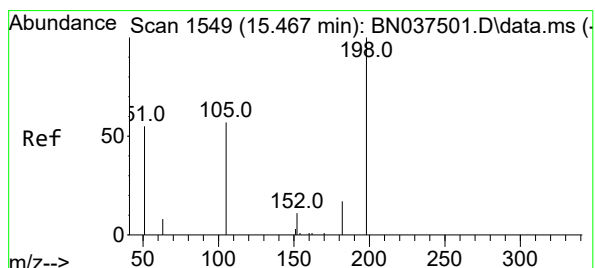
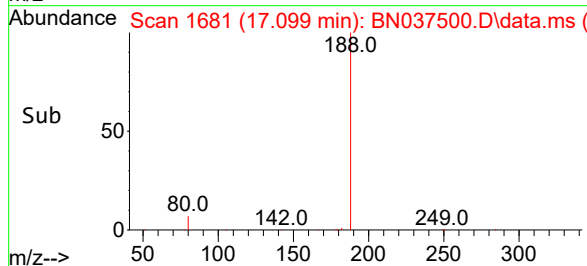
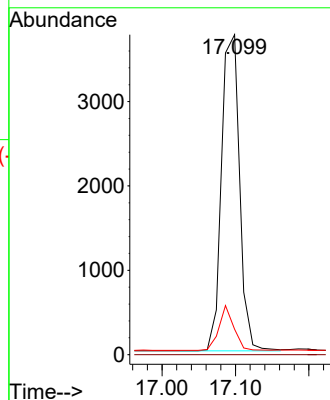
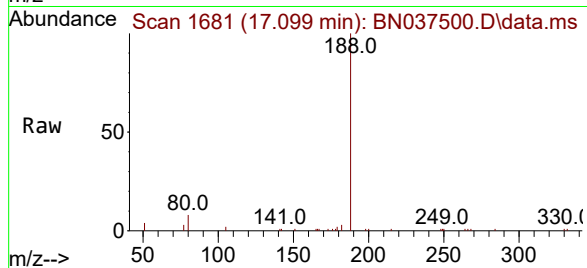
Tgt Ion:188 Resp: 6414

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

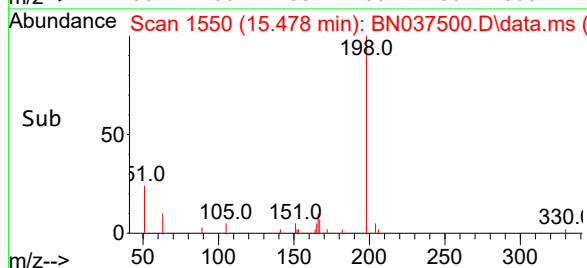
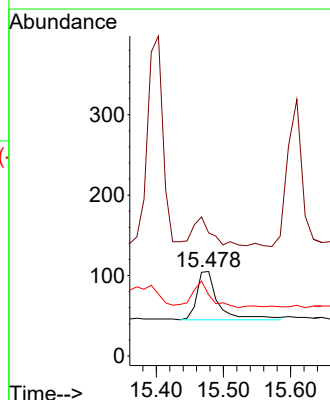
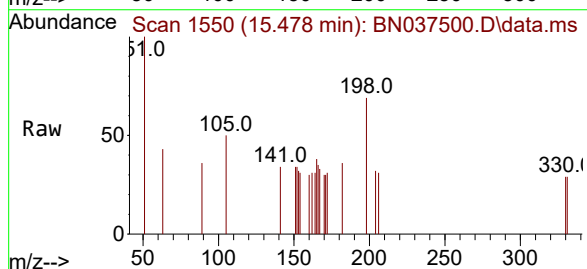
Tgt Ion:198 Resp: 140

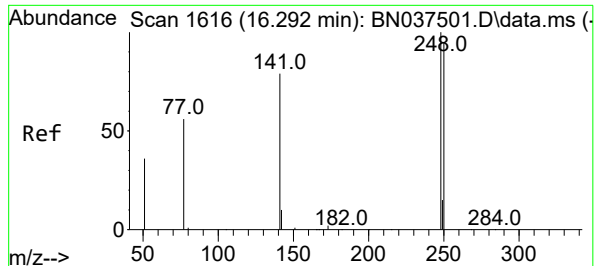
Ion Ratio Lower Upper

198 100

51 145.7 88.5 132.7#

105 72.4 61.2 91.8

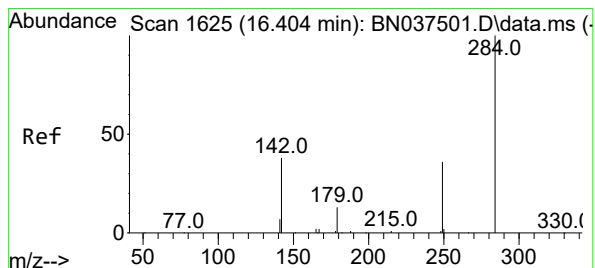
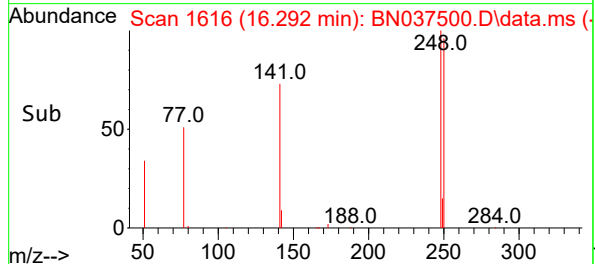
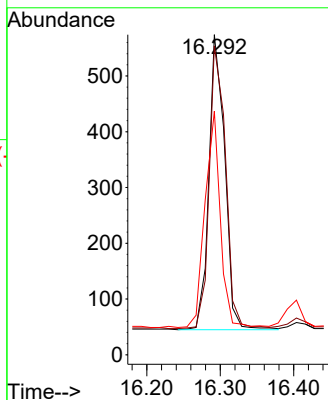
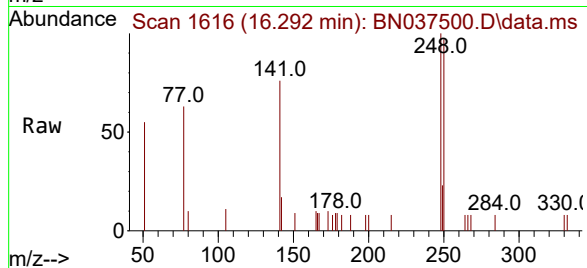




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

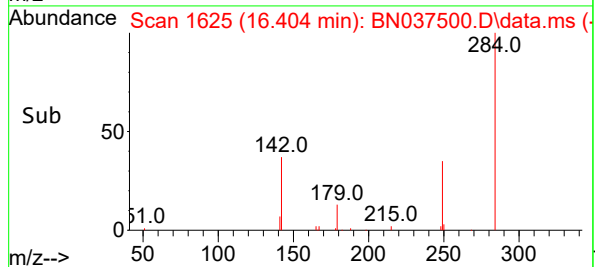
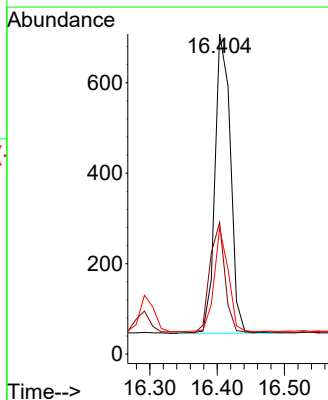
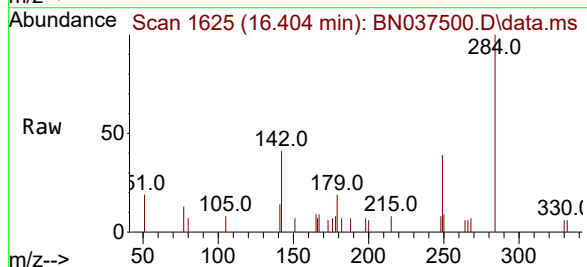
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

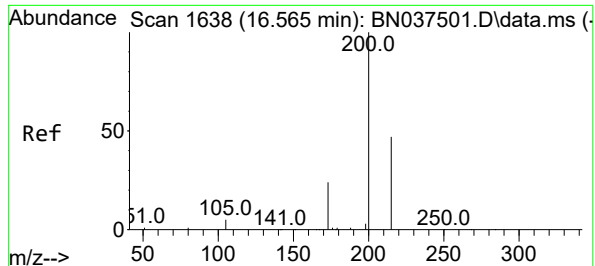
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.5	76.2	114.2
141	76.1	63.9	95.9



#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

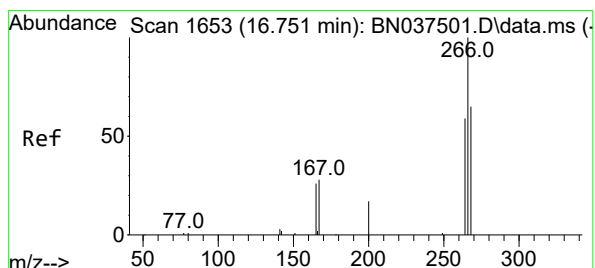
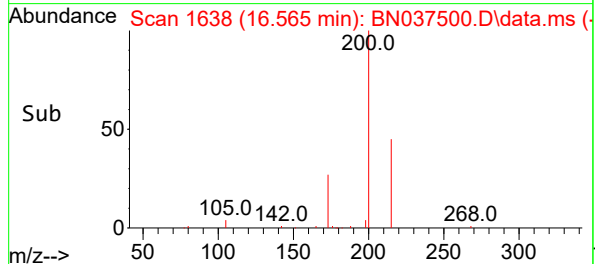
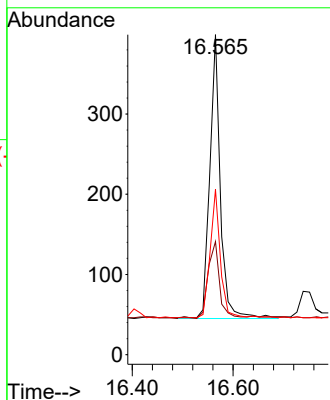
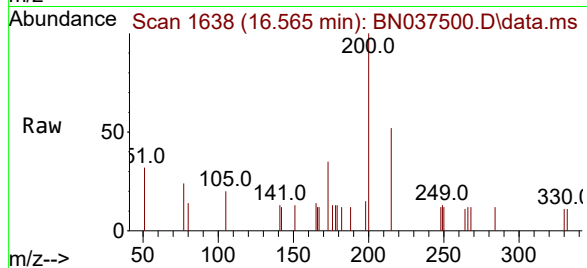




#23
Atrazine
Concen: 0.180 ng
RT: 16.565 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

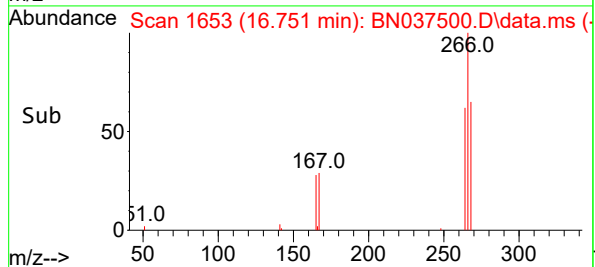
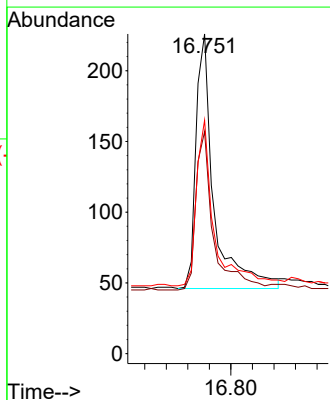
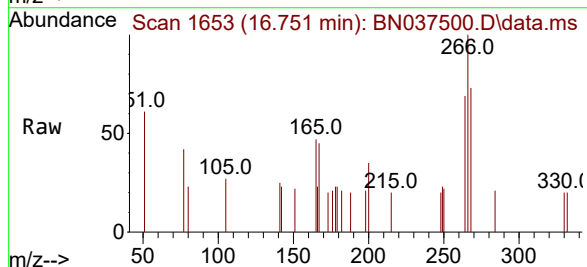
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

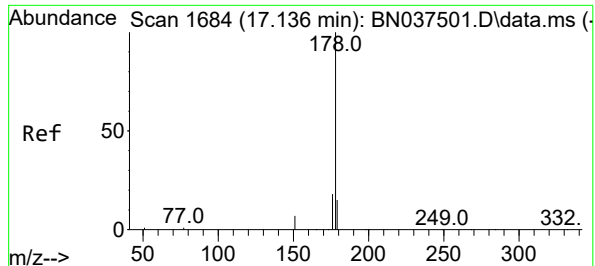
Tgt Ion:200 Resp: 515
Ion Ratio Lower Upper
200 100
173 35.3 23.2 34.8#
215 51.6 40.2 60.4



#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

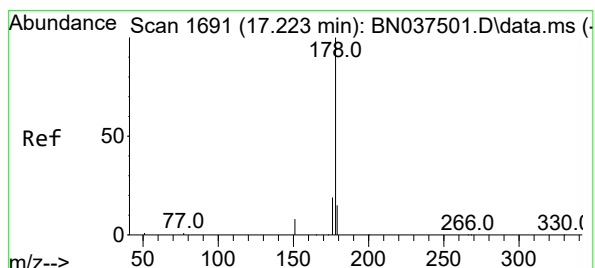
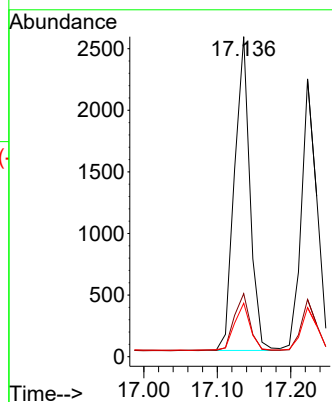
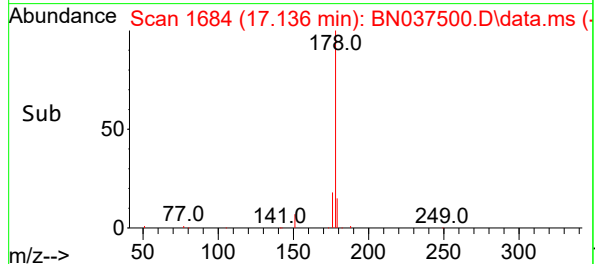
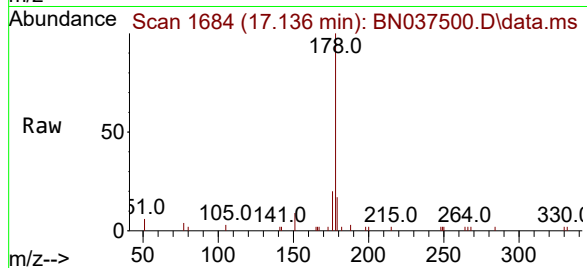




#25
Phenanthrene
Concen: 0.194 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

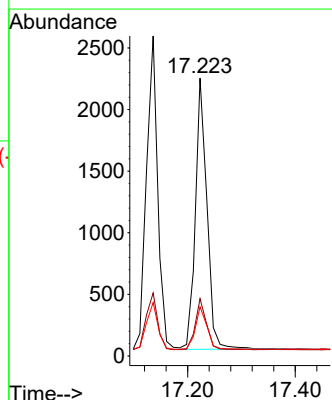
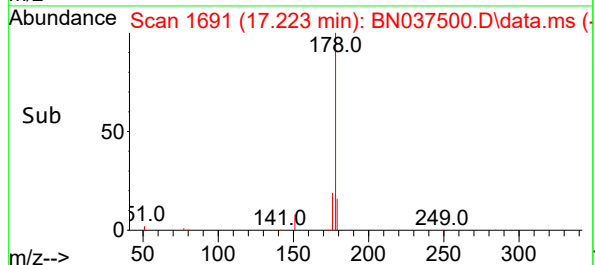
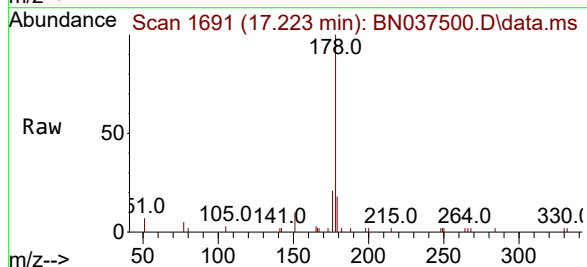
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

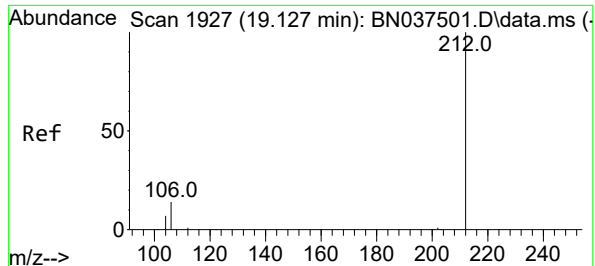
Tgt Ion:178 Resp: 3730
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 15.4 12.2 18.2



#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

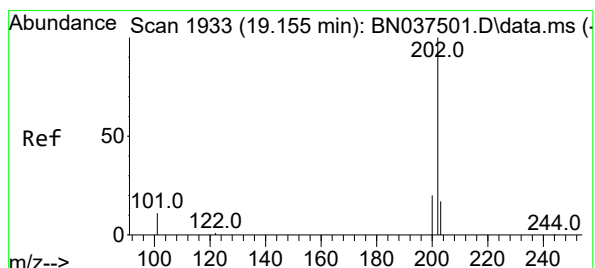
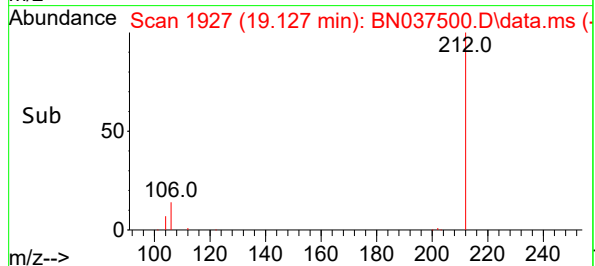
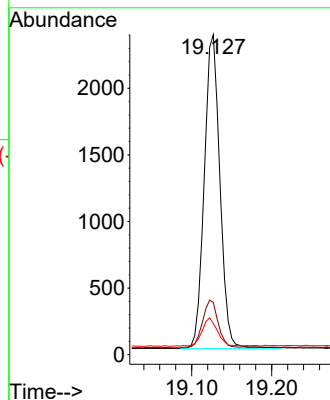
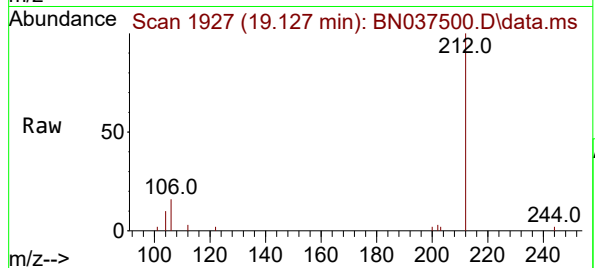
Tgt Ion:212 Resp: 3202

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

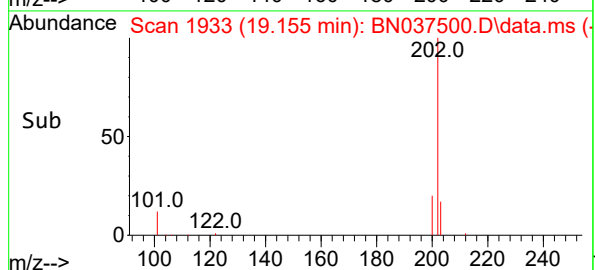
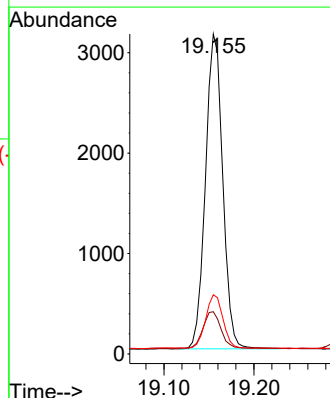
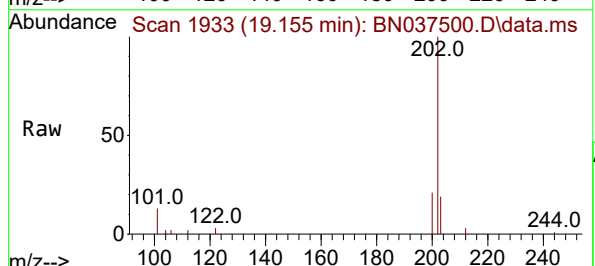
Tgt Ion:202 Resp: 4200

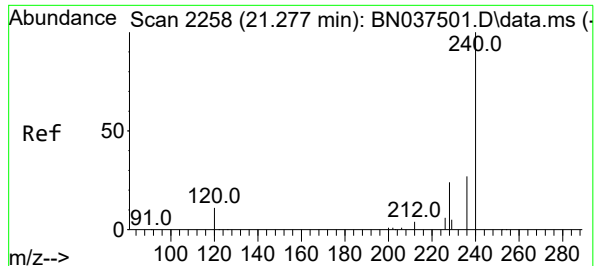
Ion Ratio Lower Upper

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

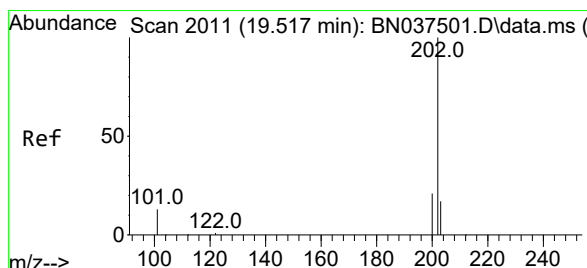
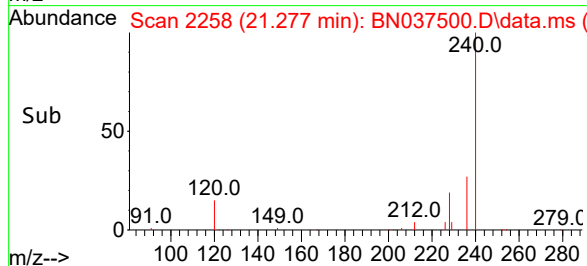
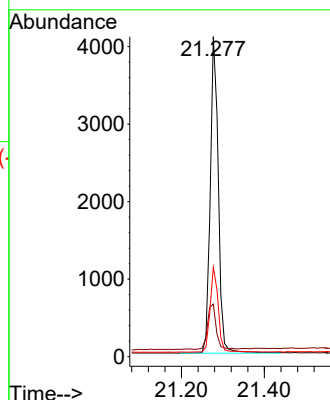
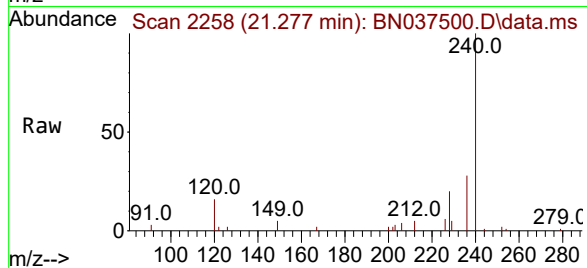
Tgt Ion:240 Resp: 5490

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

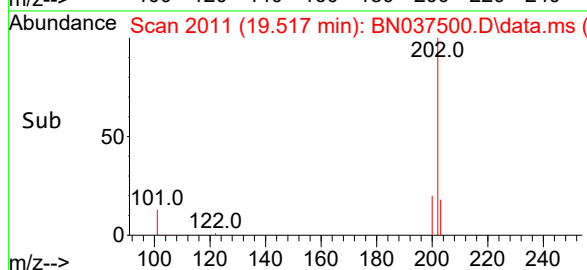
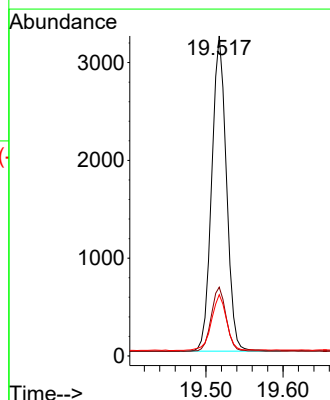
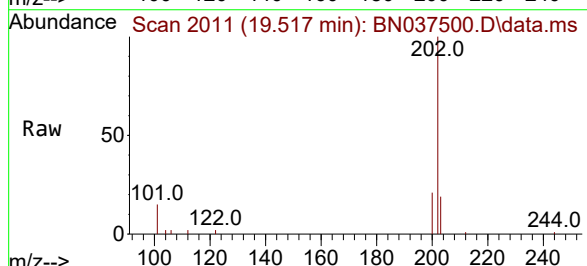
Tgt Ion:202 Resp: 4280

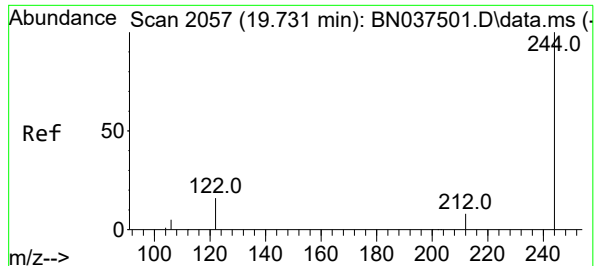
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 18.3 14.3 21.5

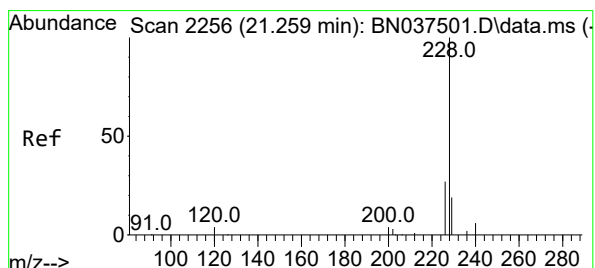
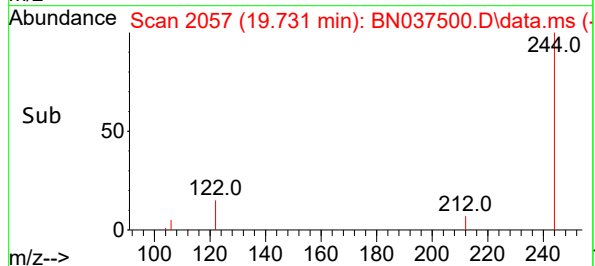
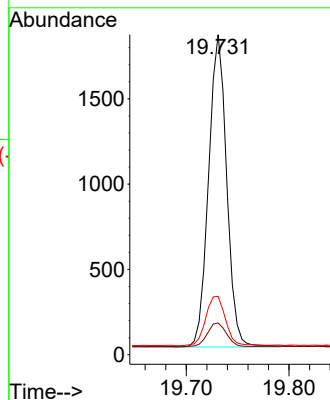
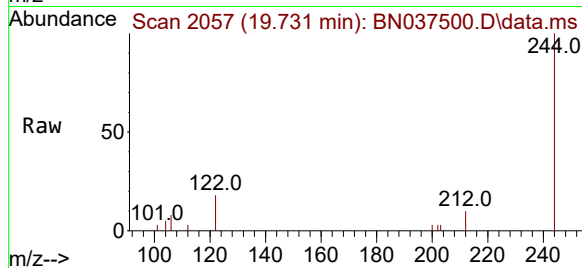




#31
Terphenyl-d14
Concen: 0.190 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

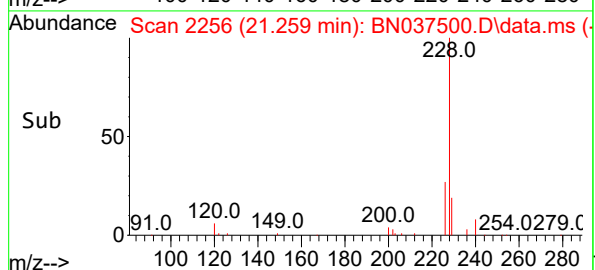
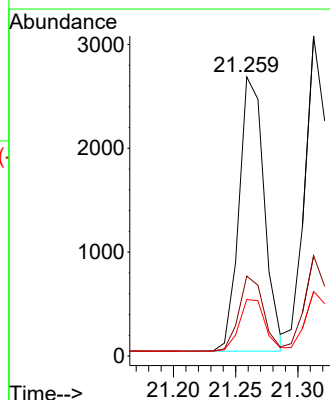
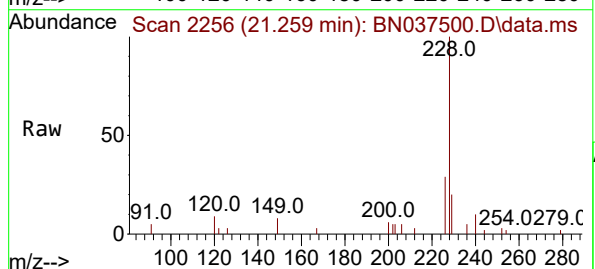
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

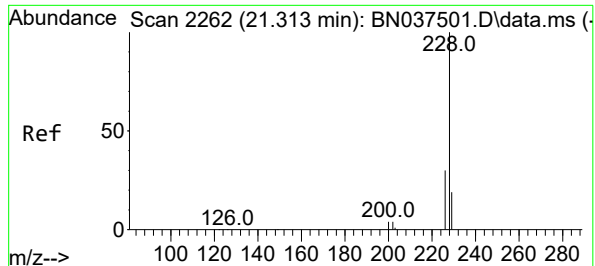
Tgt Ion:244 Resp: 2238
Ion Ratio Lower Upper
244 100
212 9.9 7.4 11.2
122 18.3 13.6 20.4



#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 :

SSTDICC0.2

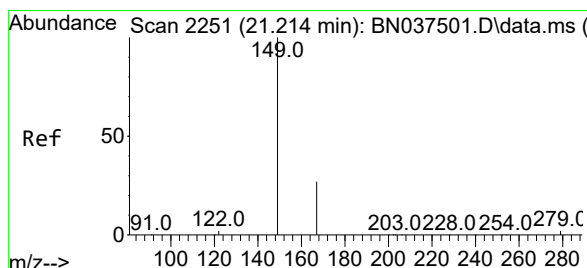
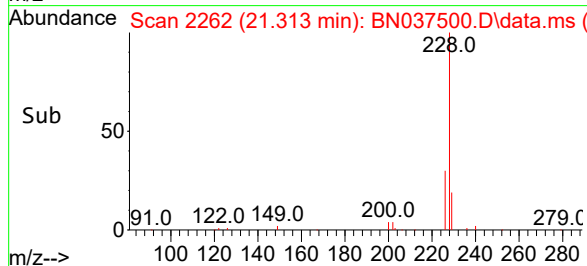
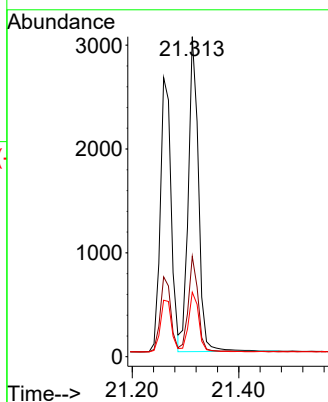
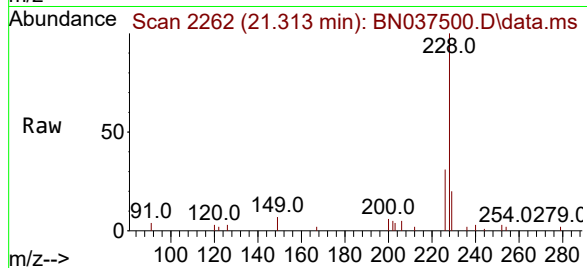
Tgt Ion:228 Resp: 4010

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

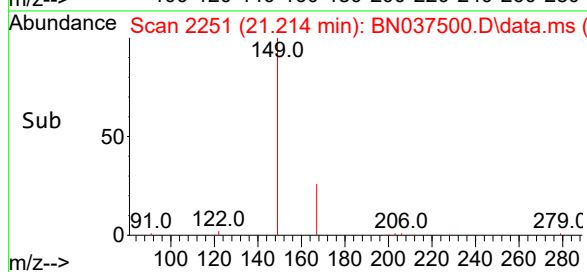
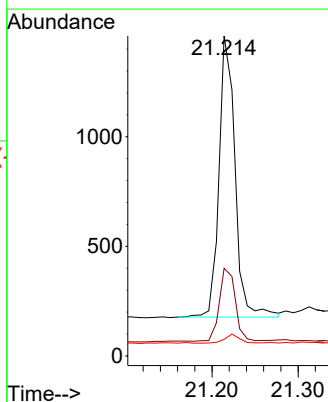
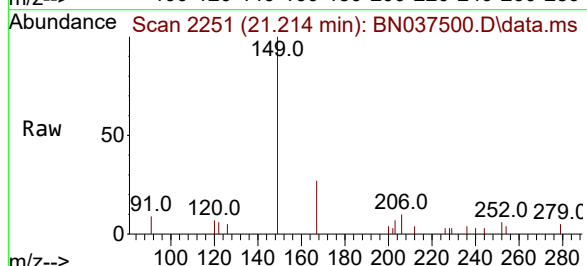
Tgt Ion:149 Resp: 1656

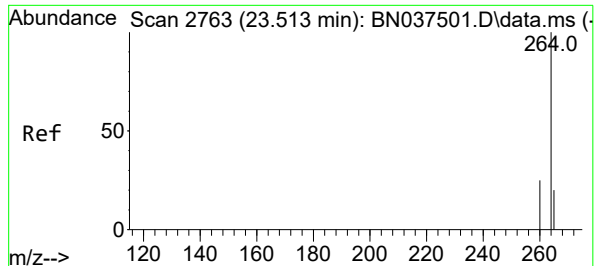
Ion Ratio Lower Upper

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 :

SSTDICC0.2

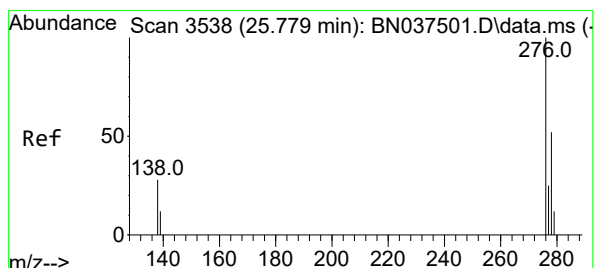
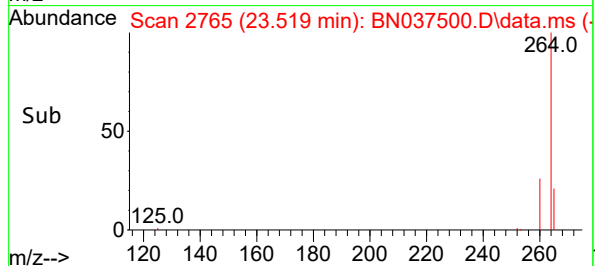
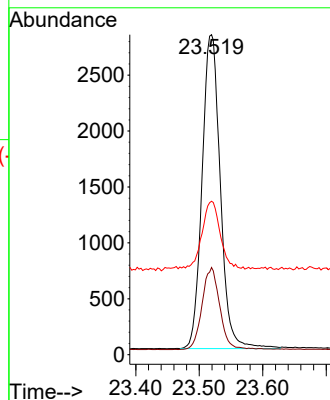
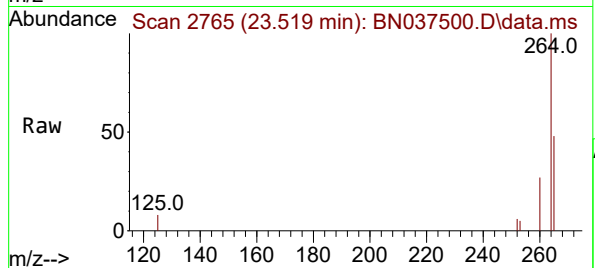
Tgt Ion:264 Resp: 5600

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

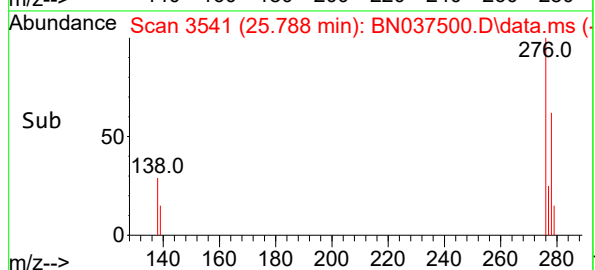
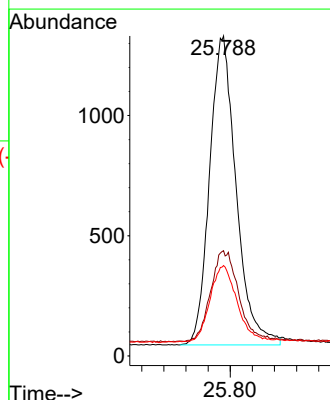
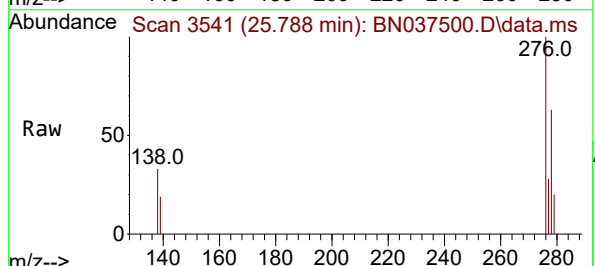
Tgt Ion:276 Resp: 4278

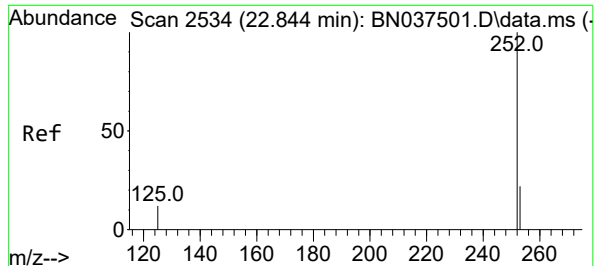
Ion Ratio Lower Upper

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

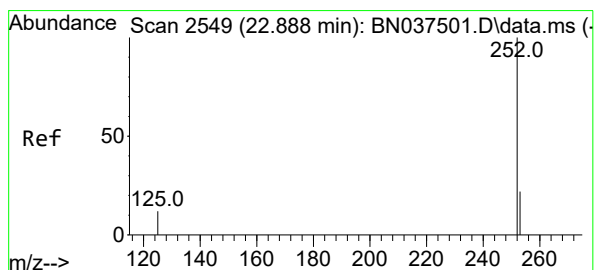
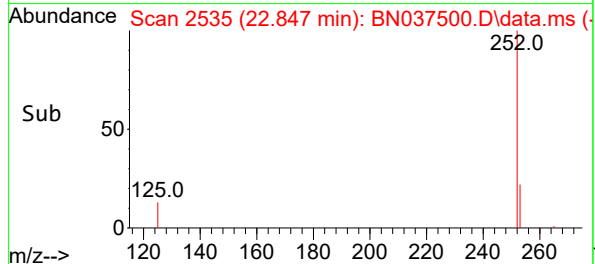
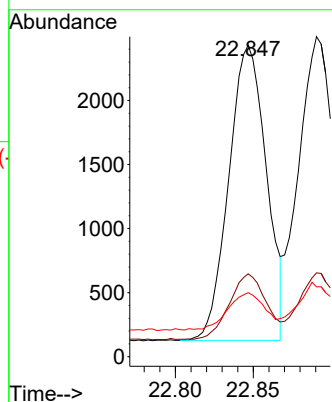
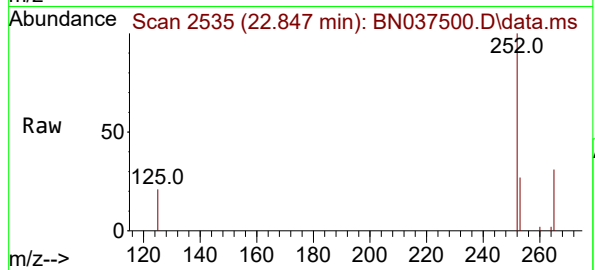
Tgt Ion:252 Resp: 3857

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

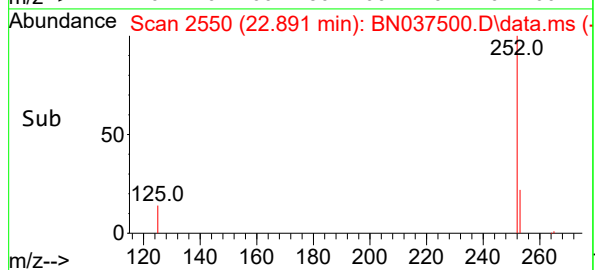
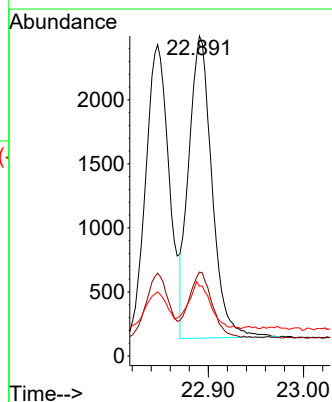
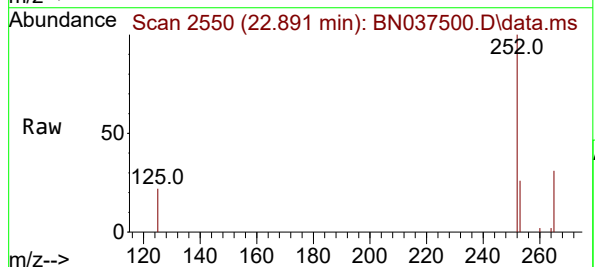
Tgt Ion:252 Resp: 3977

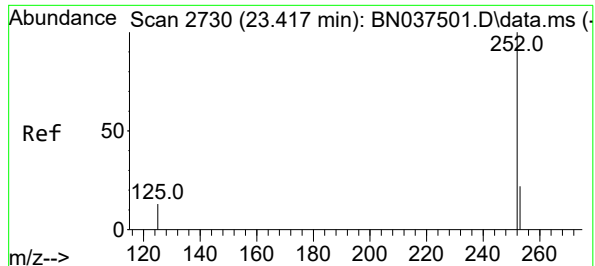
Ion Ratio Lower Upper

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

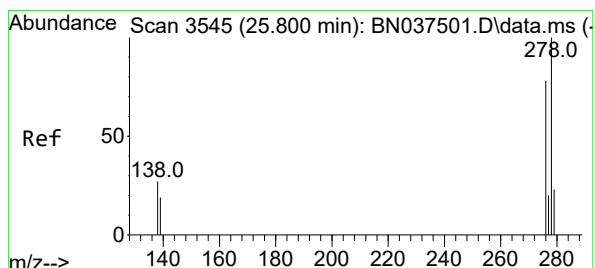
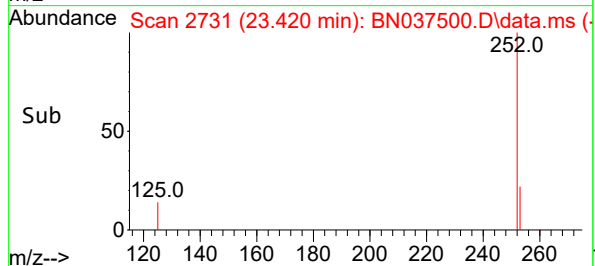
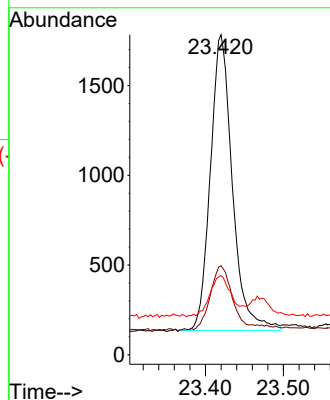
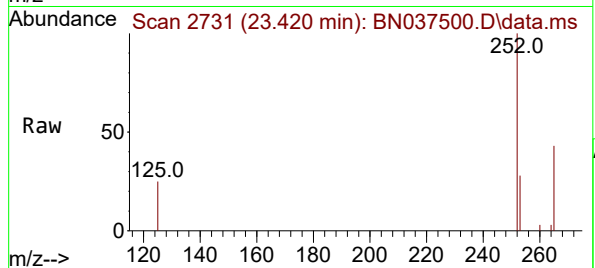
Tgt Ion:252 Resp: 3225

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

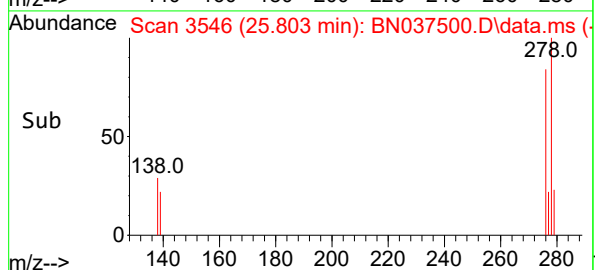
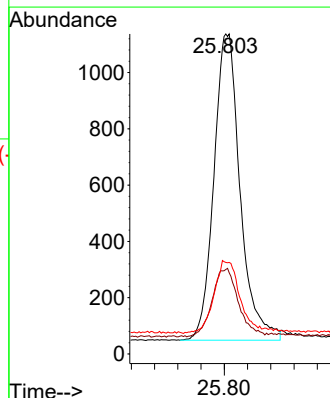
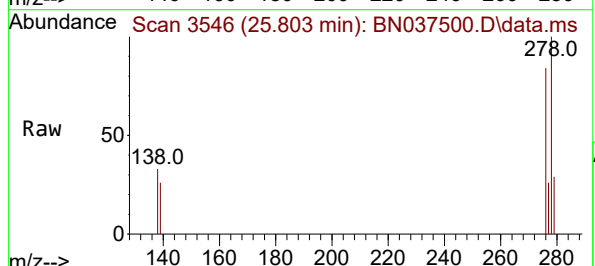
Tgt Ion:278 Resp: 3411

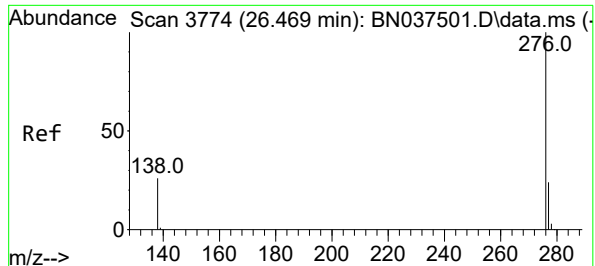
Ion Ratio Lower Upper

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

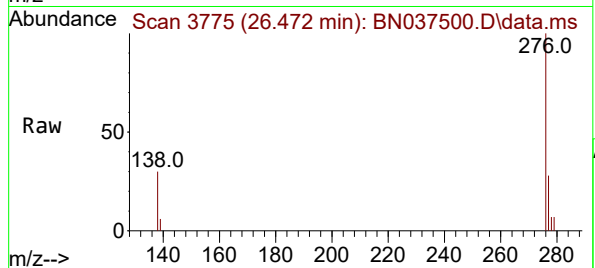
Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



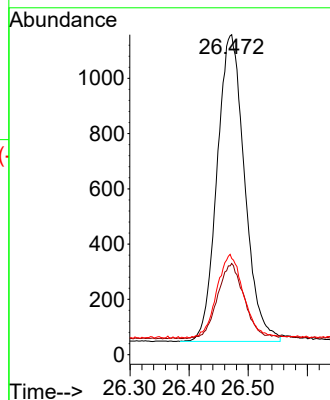
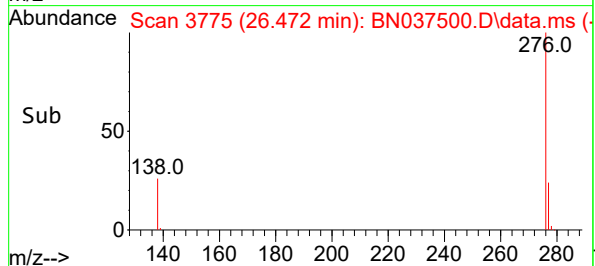
Tgt Ion:276 Resp: 3591

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)

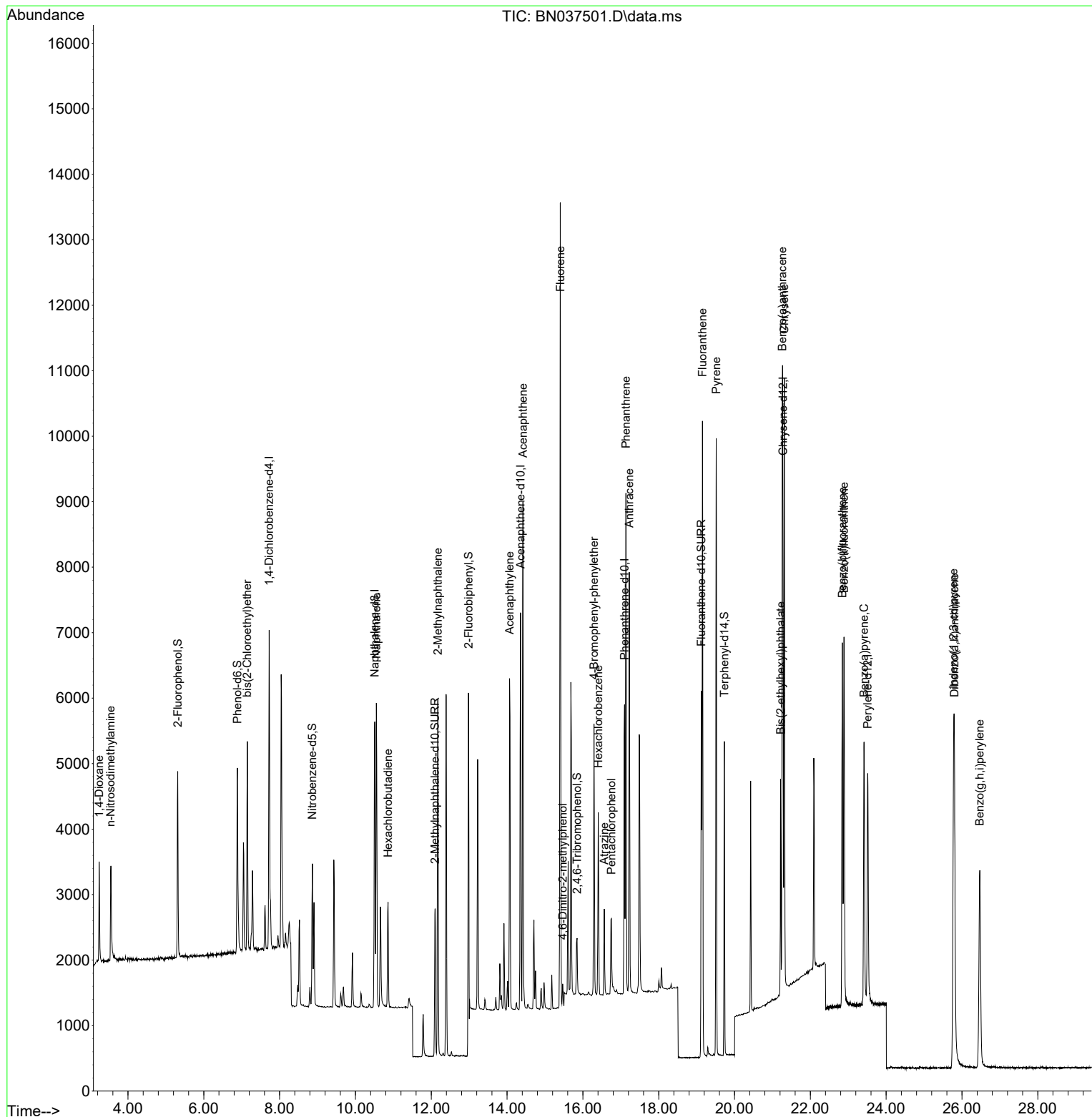
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2287	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5836	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3328	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6474	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5210	0.400	ng	0.00
35) Perylene-d12	23.513	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

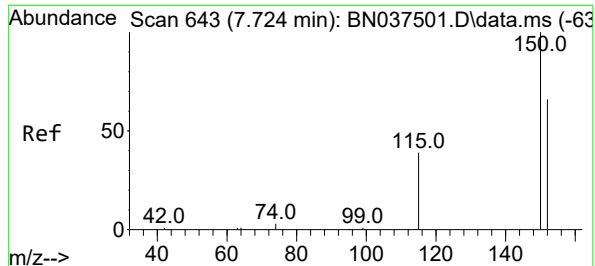
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

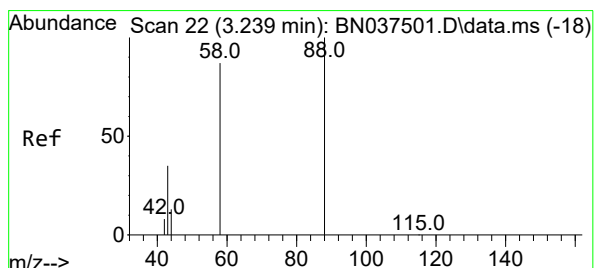
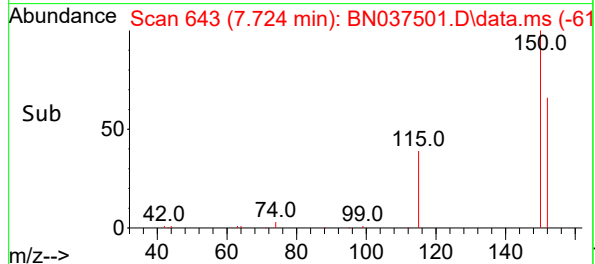
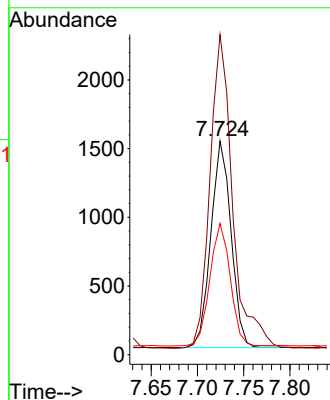
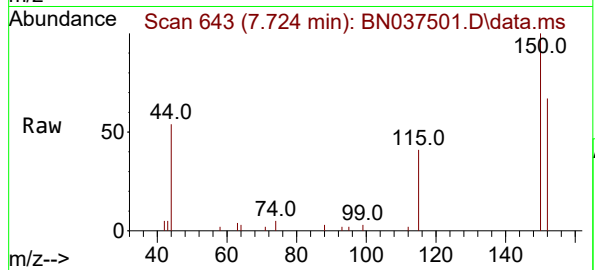




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

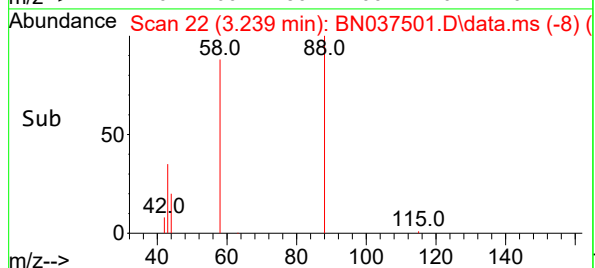
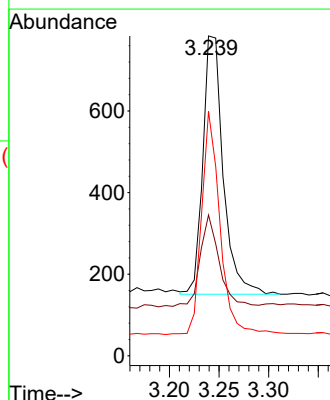
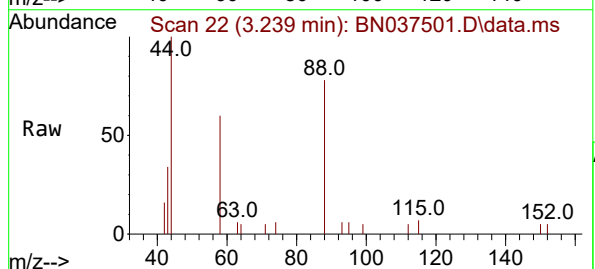
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

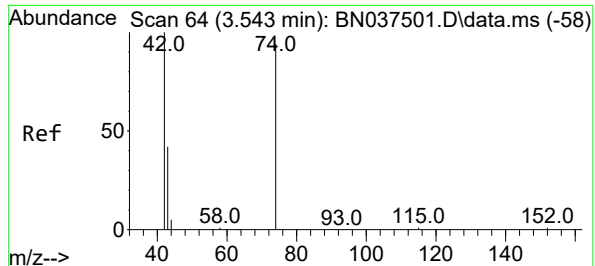
Tgt Ion:152 Resp: 2287
Ion Ratio Lower Upper
152 100
150 149.8 119.8 179.8
115 61.4 49.1 73.7



#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

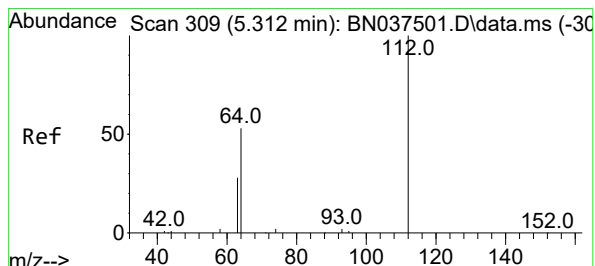
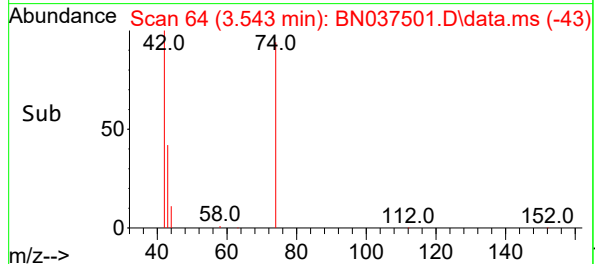
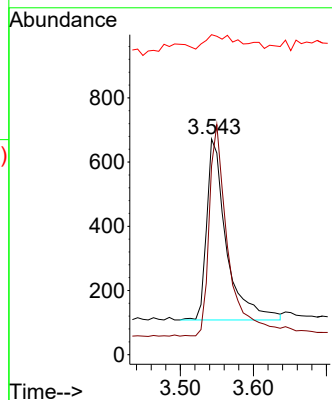
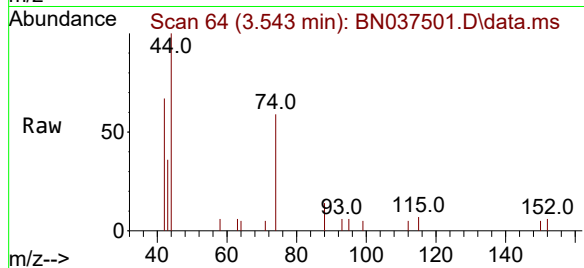




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

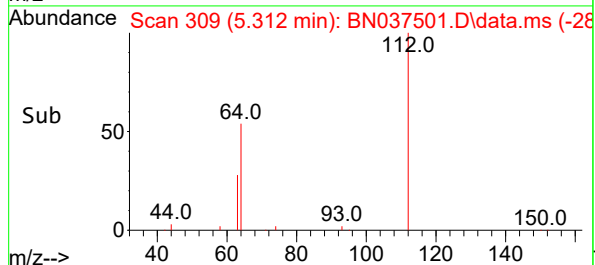
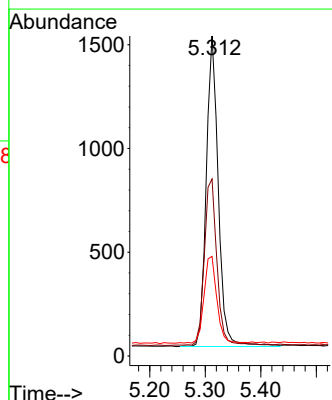
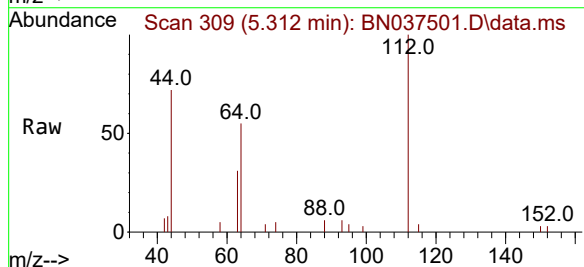
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

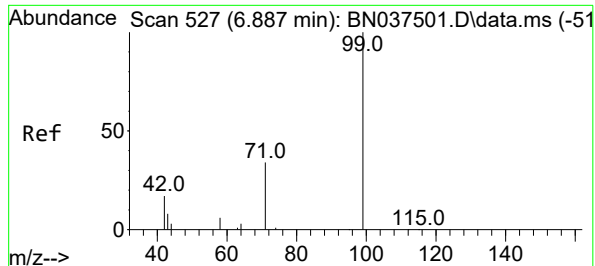
Tgt Ion: 42 Resp: 1061
Ion Ratio Lower Upper
42 100
74 113.4 91.8 137.6
44 18.8 15.0 22.6



#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

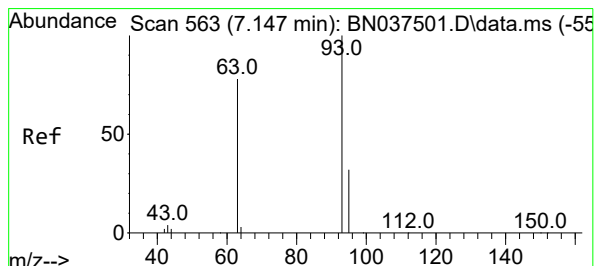
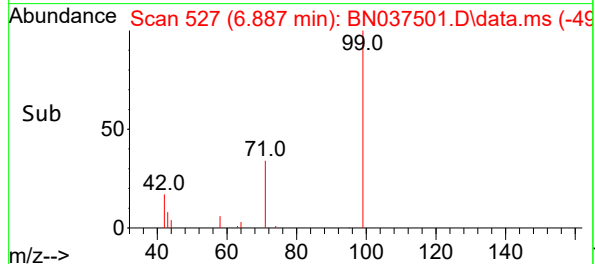
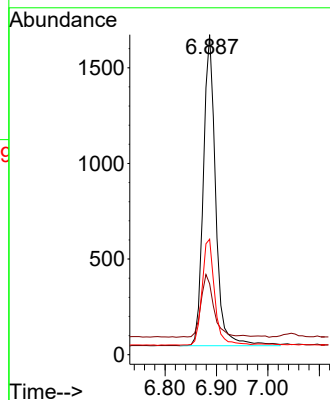
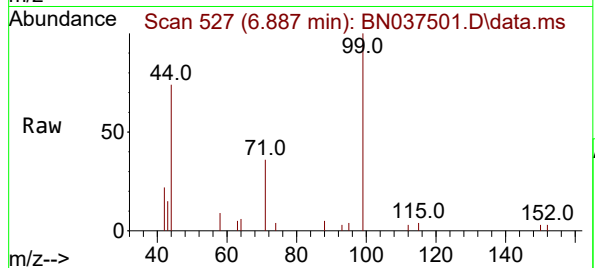




#5
Phenol-d6
Concen: 0.384 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

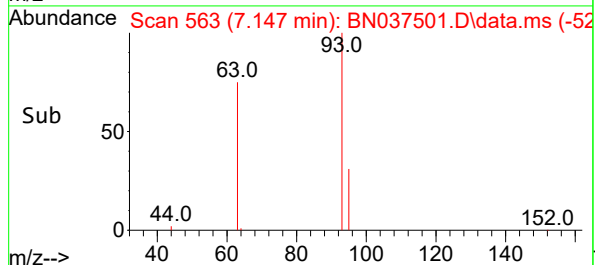
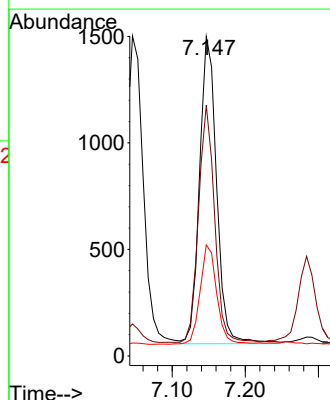
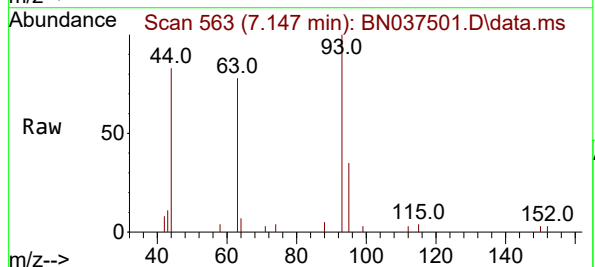
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

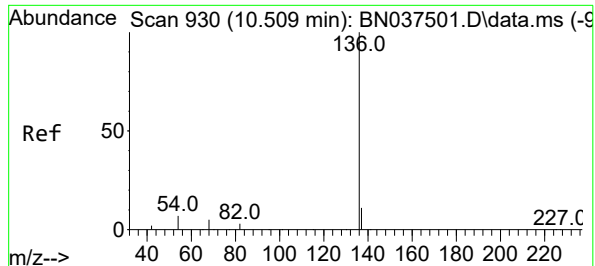
Tgt Ion: 99 Resp: 2721
Ion Ratio Lower Upper
99 100
42 21.4 17.1 25.7
71 34.8 27.8 41.8



#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

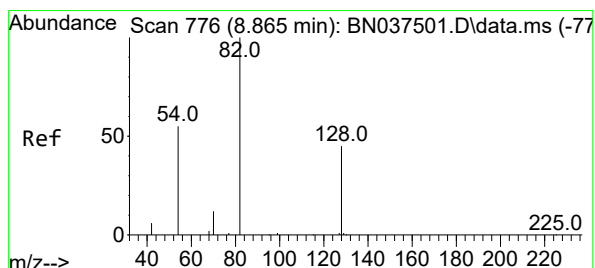
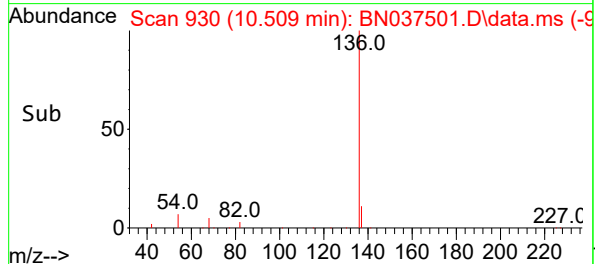
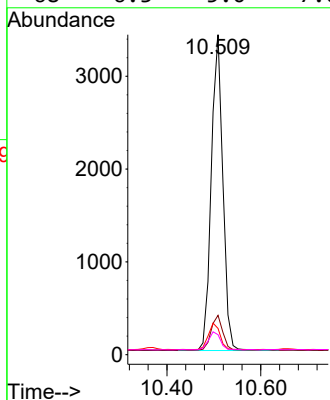
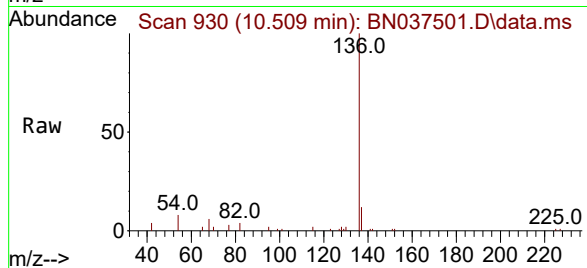




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

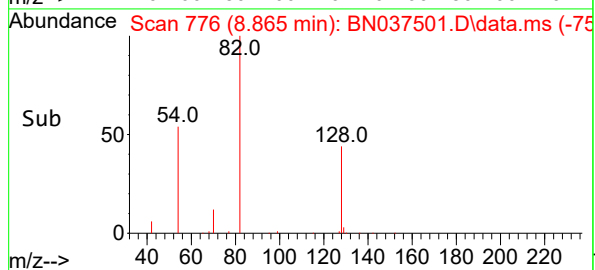
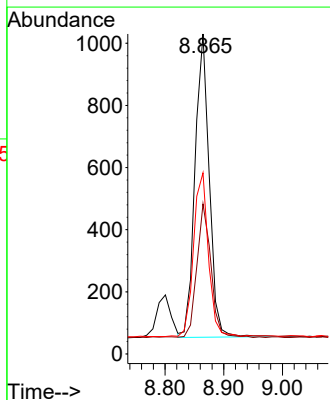
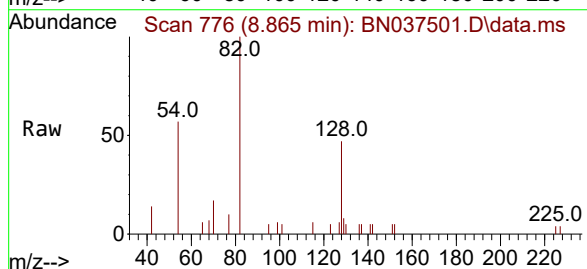
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

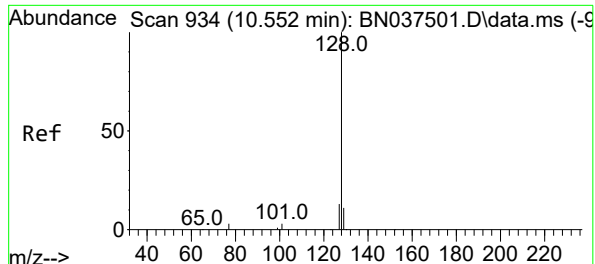
Tgt Ion:	136	Resp:	5836
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	8.2	6.6	9.8
68	6.3	5.0	7.6



#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

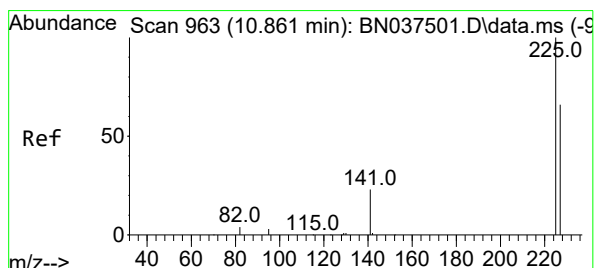
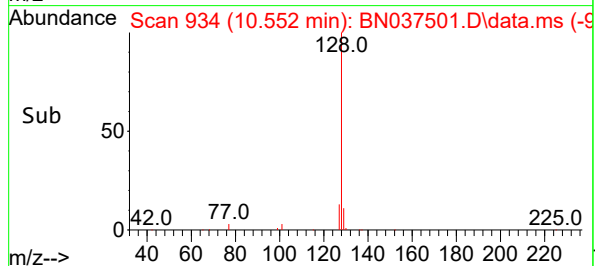
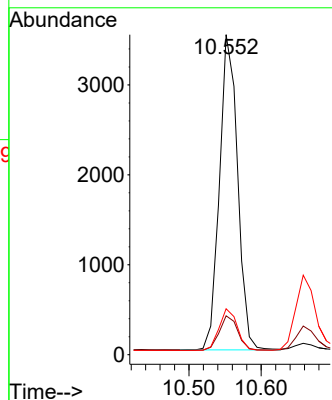
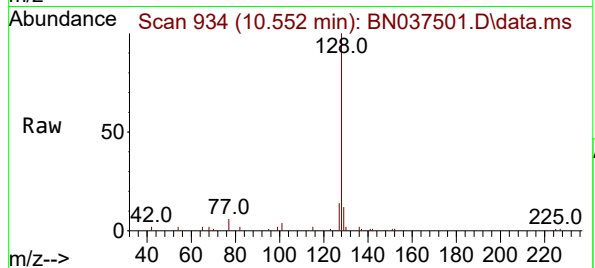




#9
Naphthalene
Concen: 0.392 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

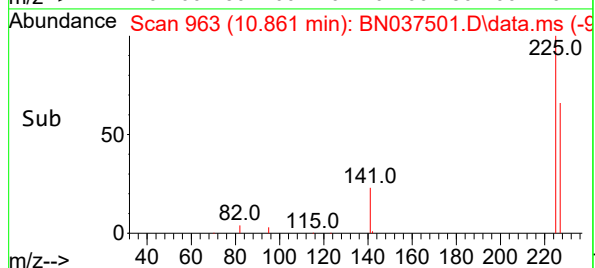
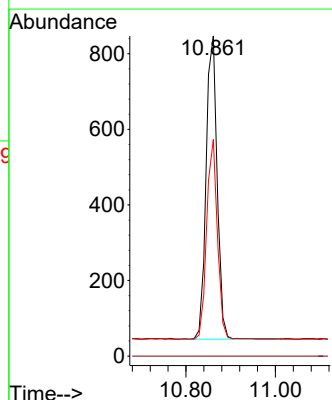
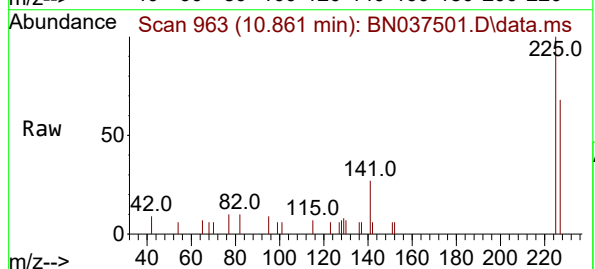
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

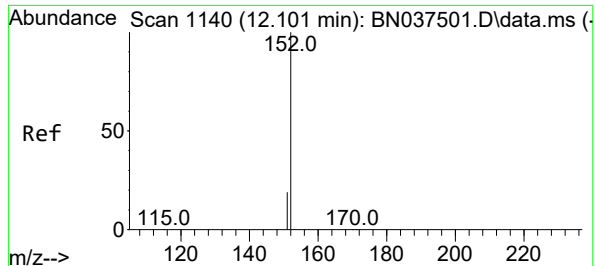
Tgt Ion:128 Resp: 6104
Ion Ratio Lower Upper
128 100
129 12.1 9.7 14.5
127 14.4 11.5 17.3



#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

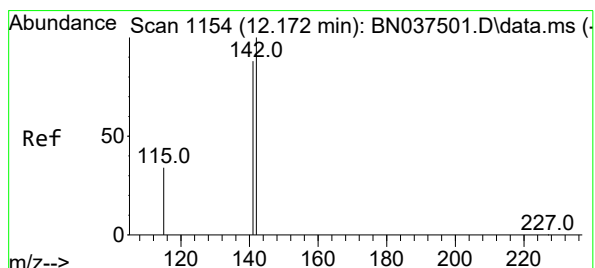
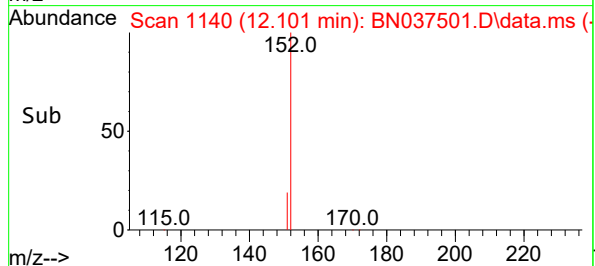
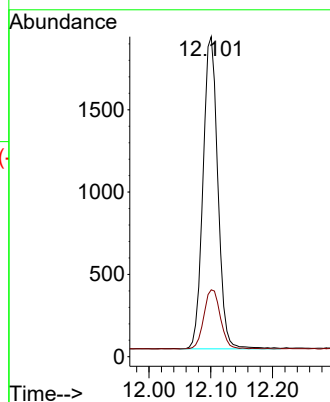
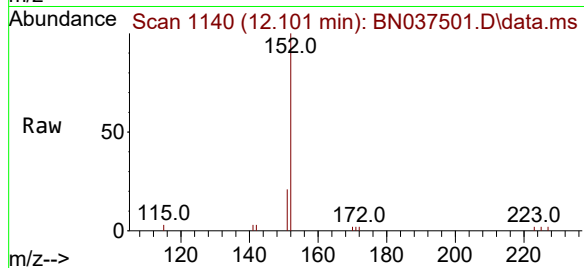




#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

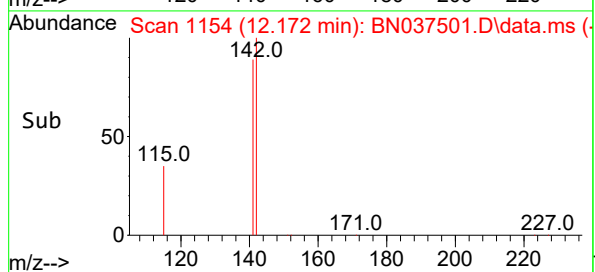
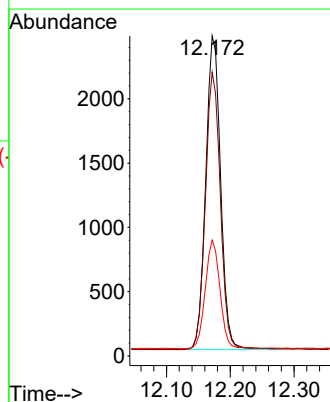
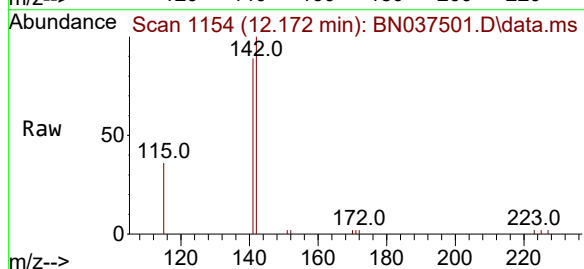
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

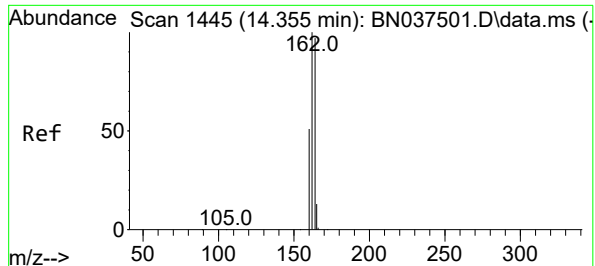
Tgt Ion:152 Resp: 3156
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#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

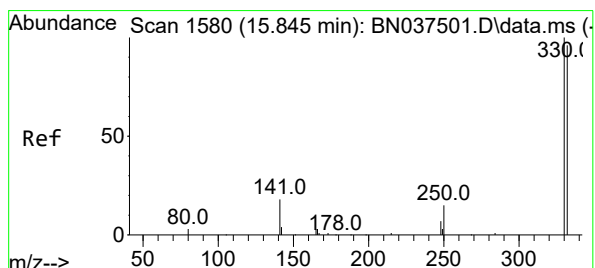
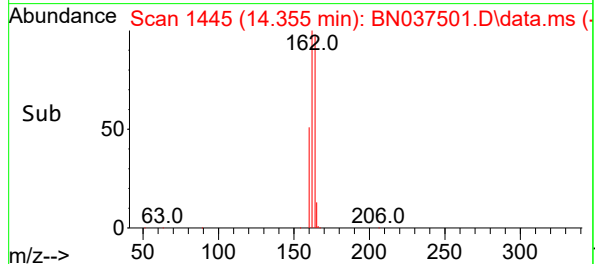
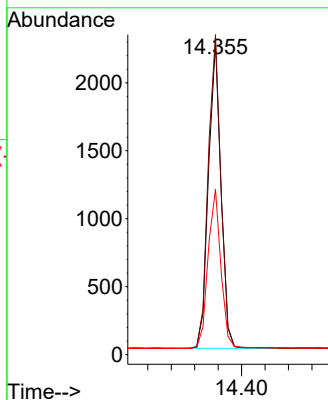
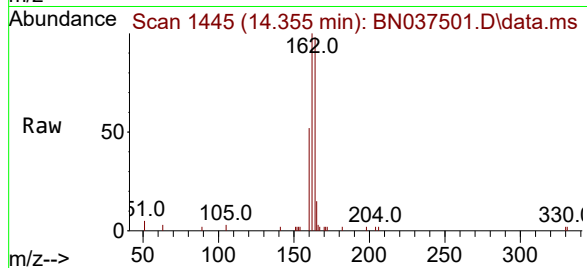




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

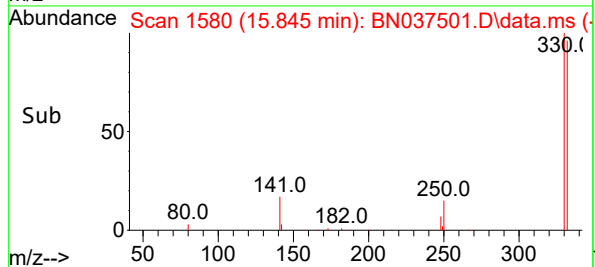
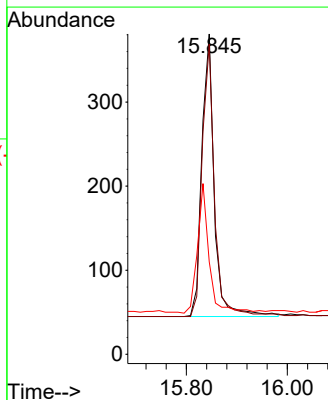
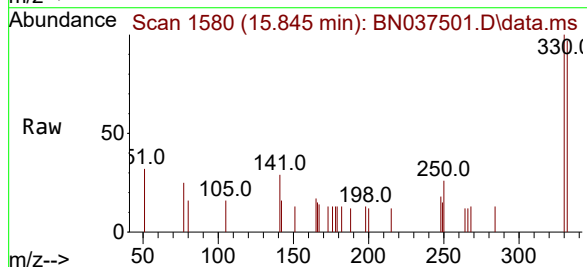
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

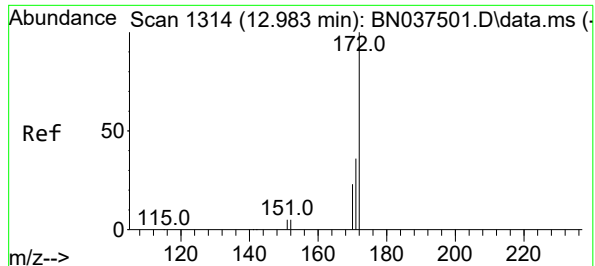
Tgt Ion:164 Resp: 3328
Ion Ratio Lower Upper
164 100
162 102.5 82.0 123.0
160 53.0 42.4 63.6



#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

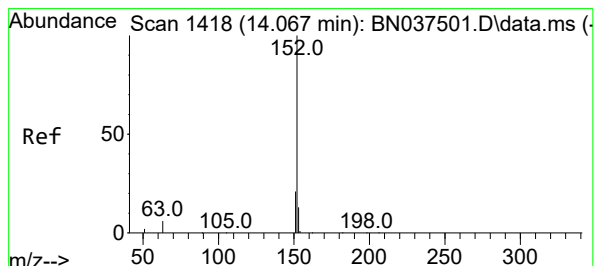
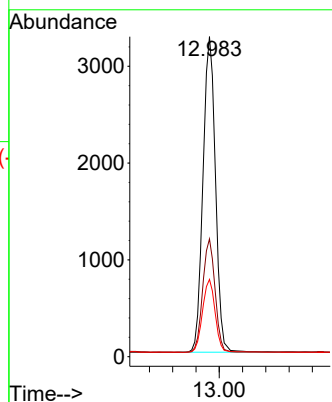
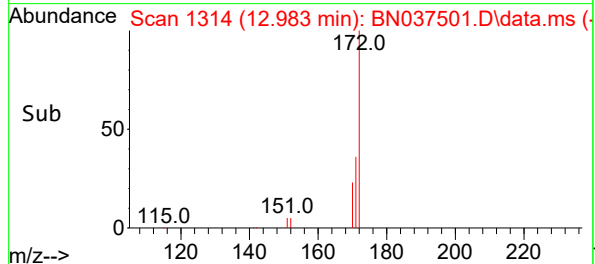
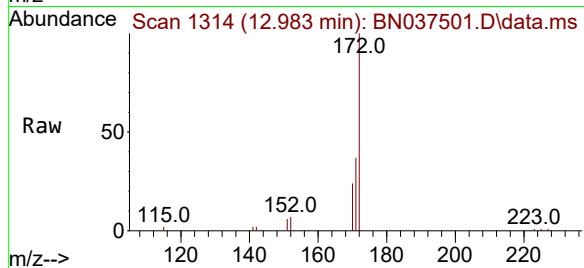




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.983 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

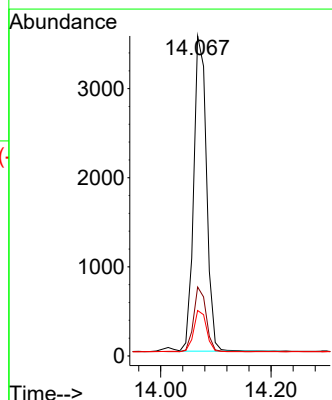
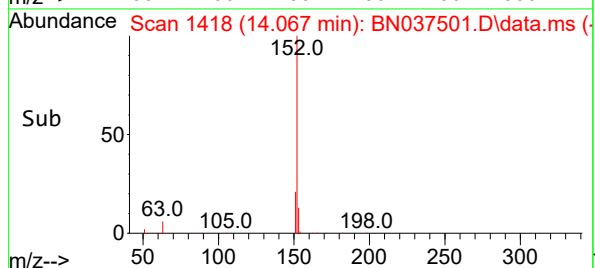
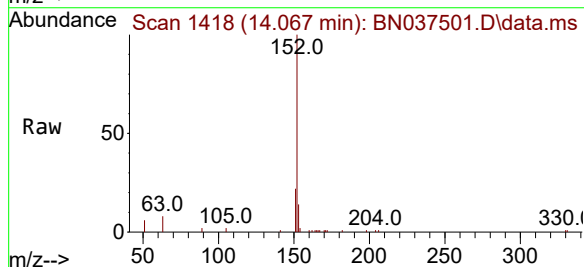
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

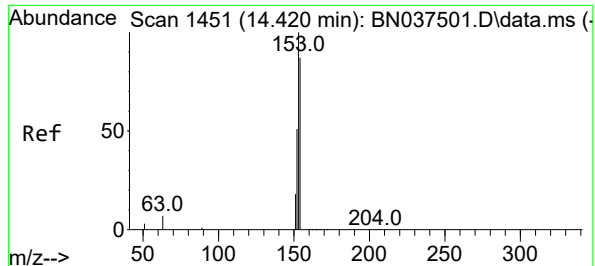
Tgt Ion:172 Resp: 6806
Ion Ratio Lower Upper
172 100
171 36.8 29.4 44.2
170 24.2 19.4 29.0



#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

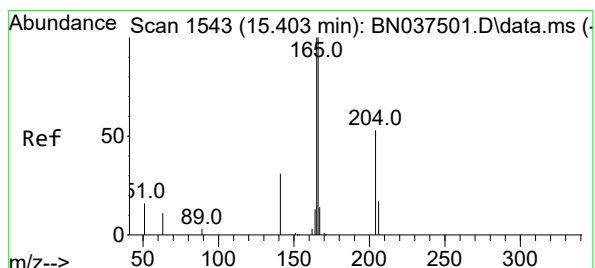
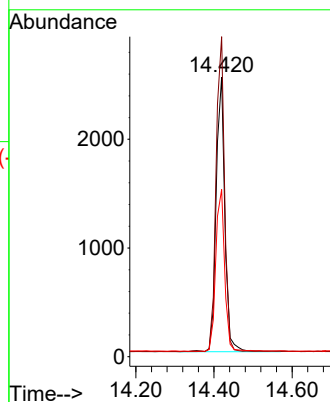
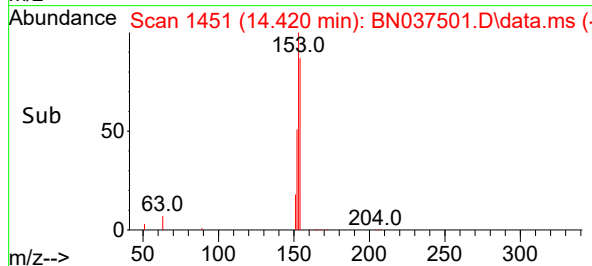
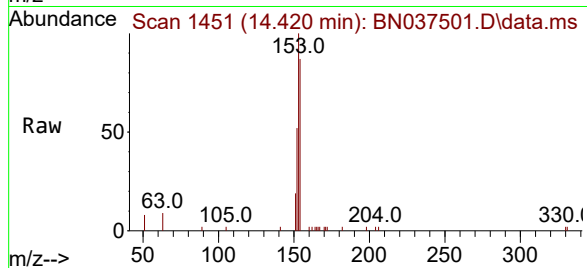




#17
Acenaphthene
Concen: 0.385 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

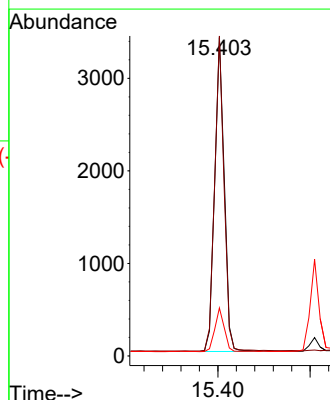
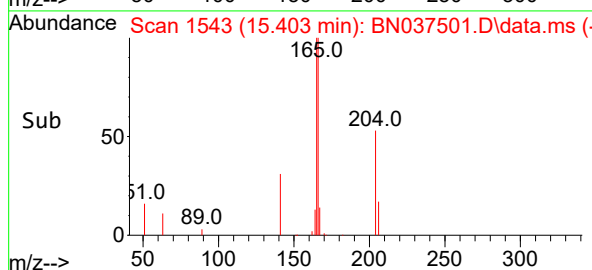
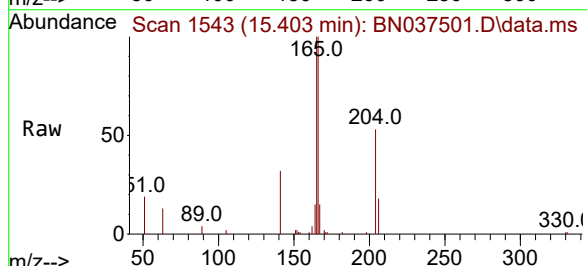
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

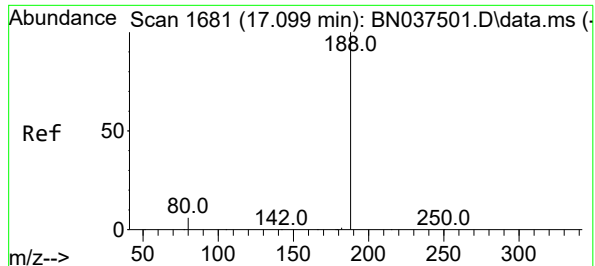
Tgt Ion:154 Resp: 3900
Ion Ratio Lower Upper
154 100
153 111.5 89.2 133.8
152 60.0 48.0 72.0



#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

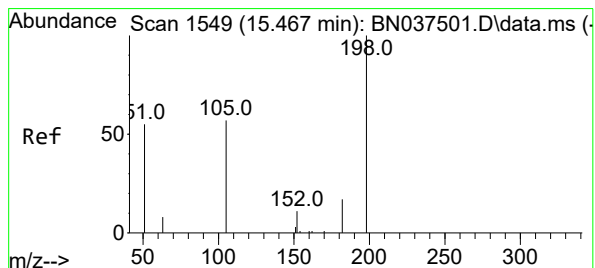
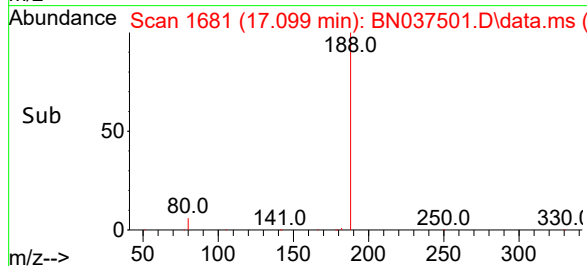
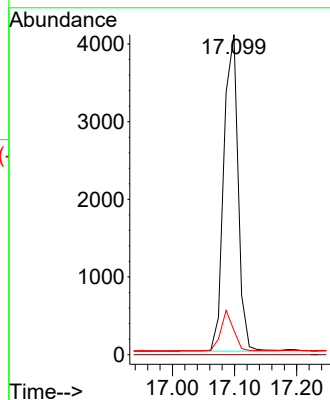
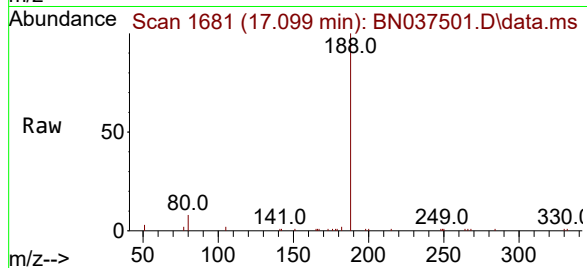
Tgt Ion:188 Resp: 6474

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

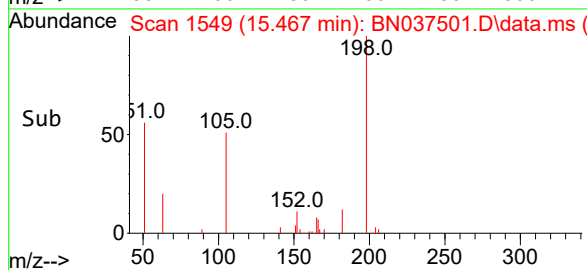
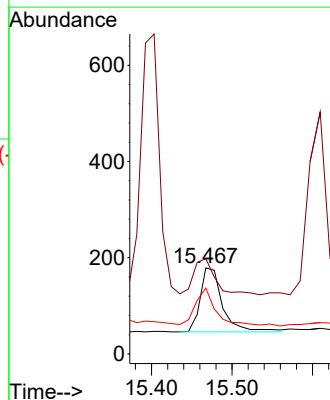
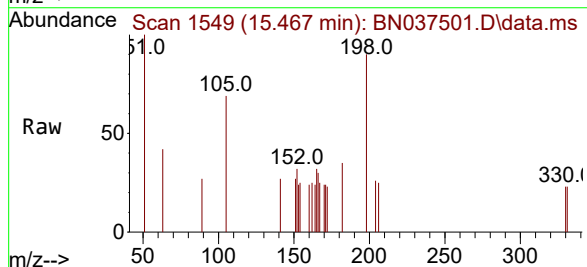
Tgt Ion:198 Resp: 268

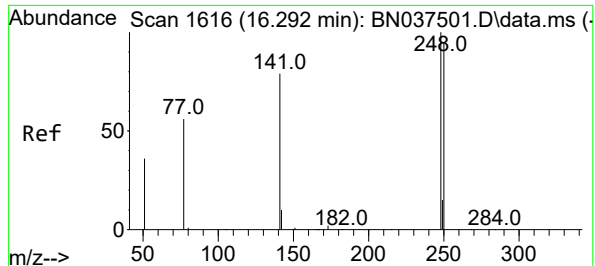
Ion Ratio Lower Upper

198 100

51 110.6 88.5 132.7

105 76.5 61.2 91.8

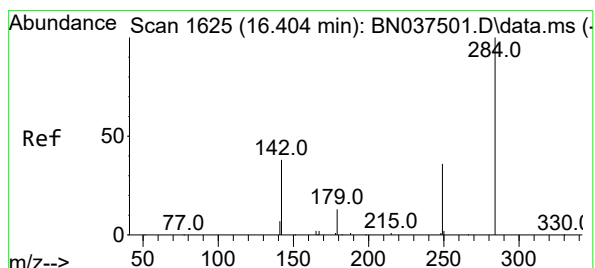
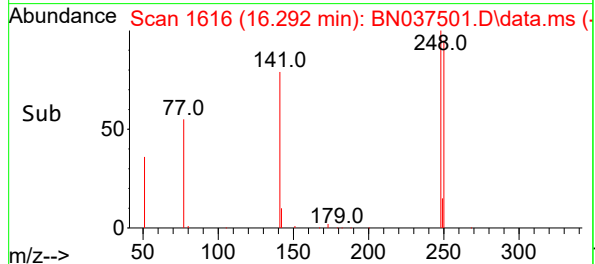
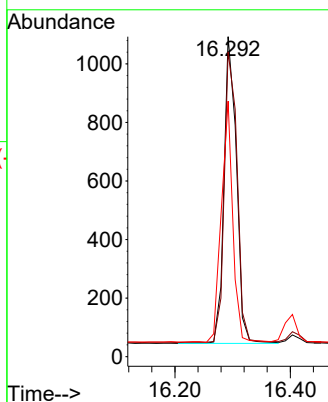
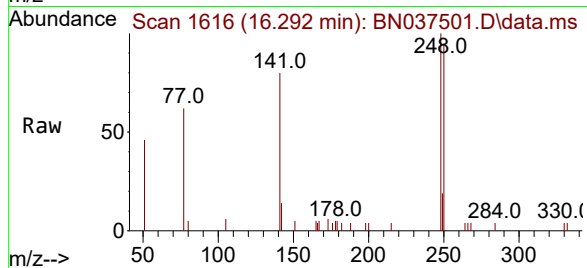




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

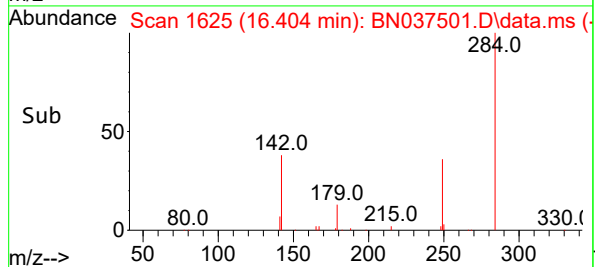
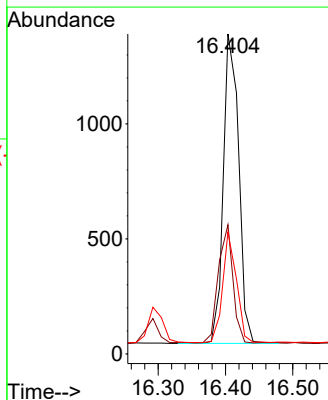
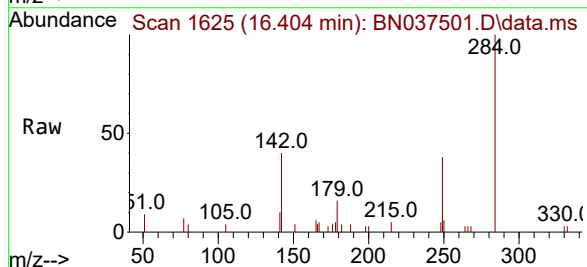
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

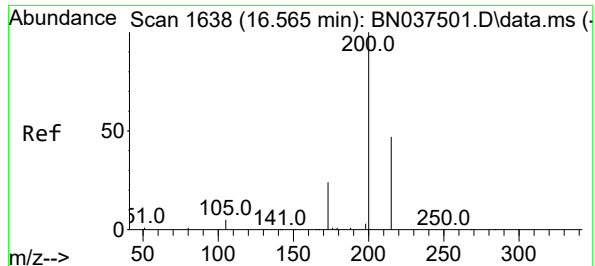
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.2	76.2	114.2
141	79.9	63.9	95.9



#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	Ratio	Lower	Upper
284	100		
142	36.1	28.9	43.3
249	32.2	25.8	38.6

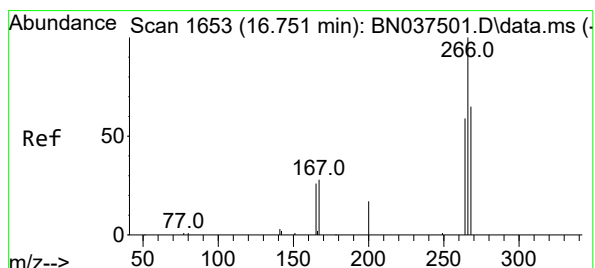
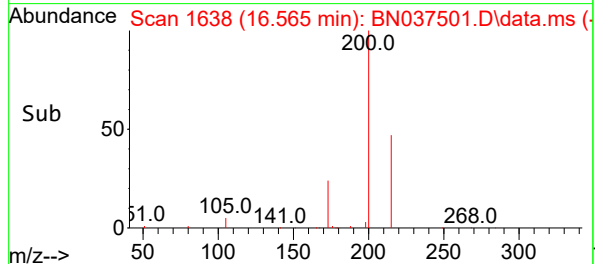
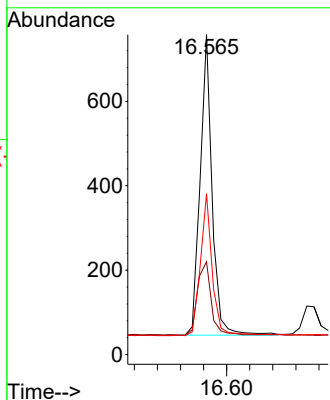
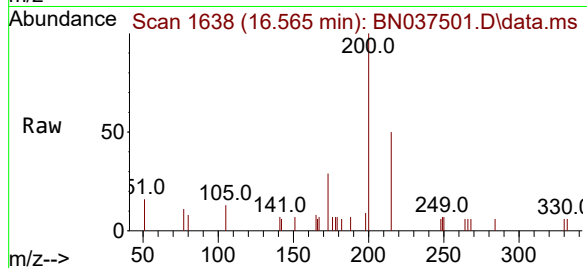




#23
Atrazine
Concen: 0.355 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

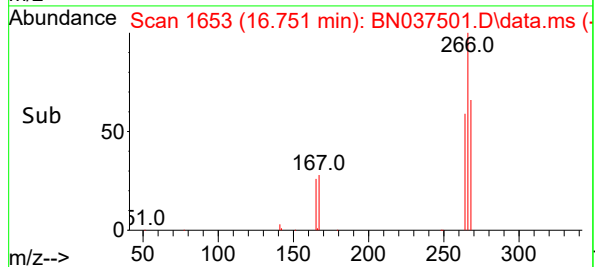
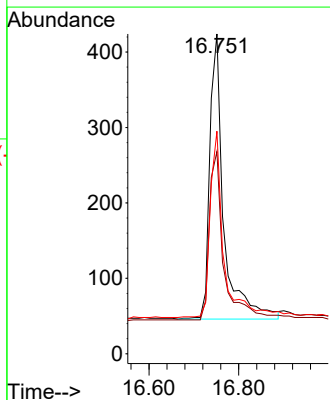
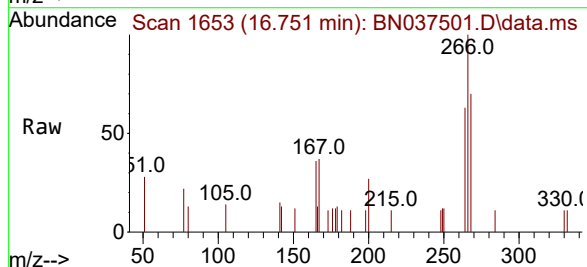
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

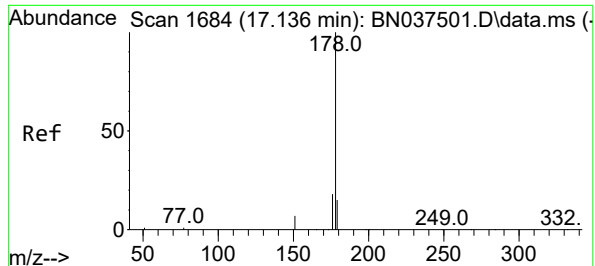
Tgt Ion:200 Resp: 1027
Ion Ratio Lower Upper
200 100
173 29.0 23.2 34.8
215 50.3 40.2 60.4



#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

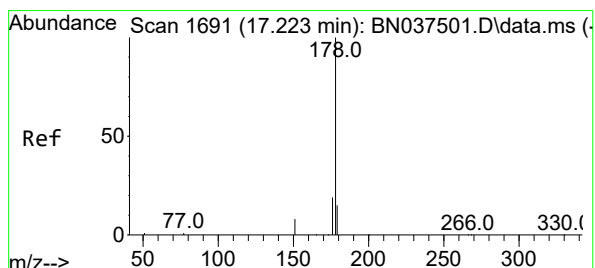
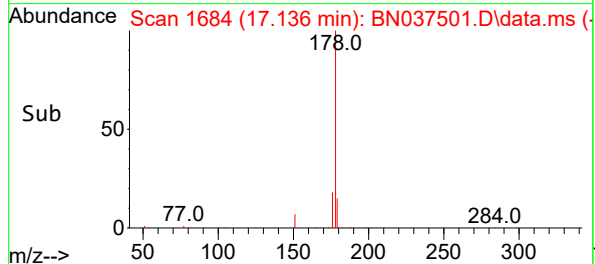
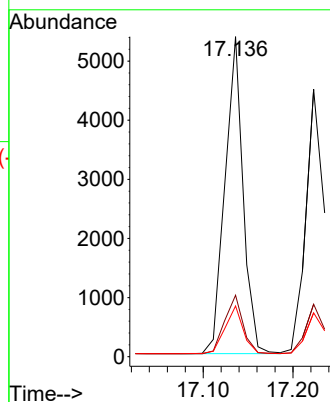
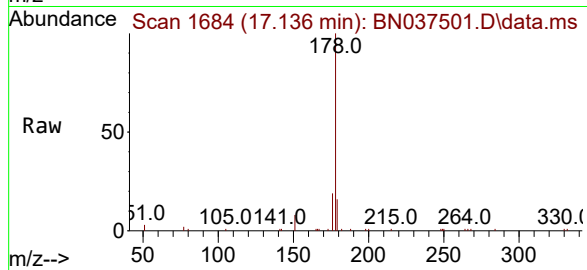




#25
Phenanthrene
Concen: 0.387 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

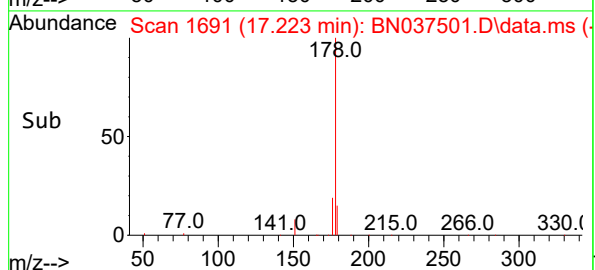
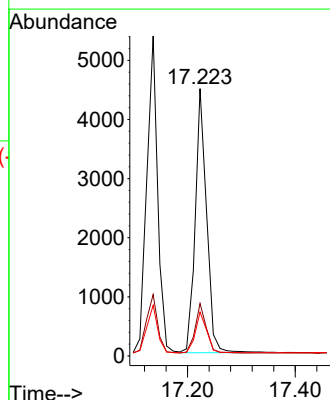
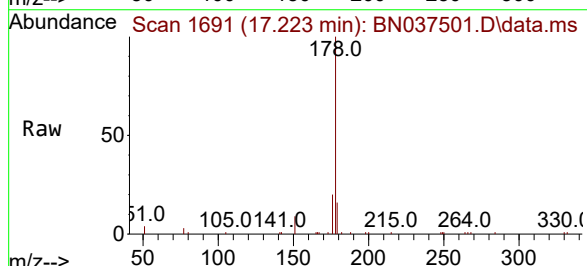
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

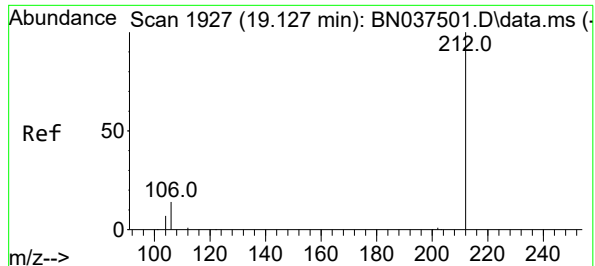
Tgt Ion:178 Resp: 7511
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.2 18.2



#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

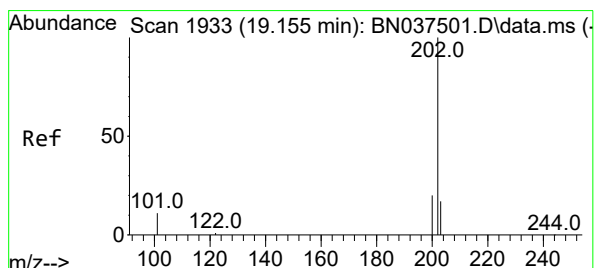
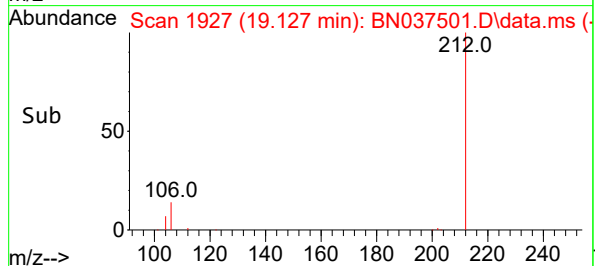
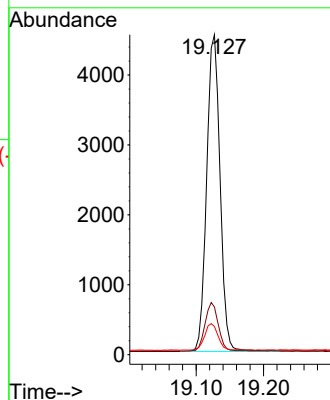
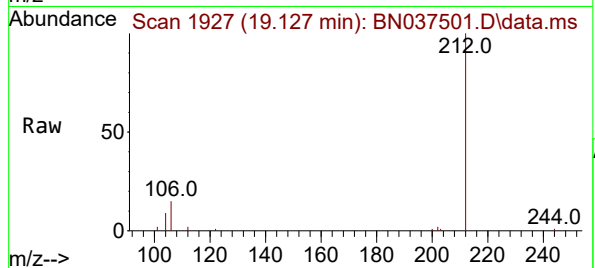
Tgt Ion:212 Resp: 6230

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

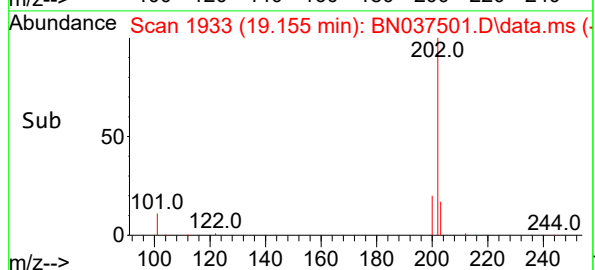
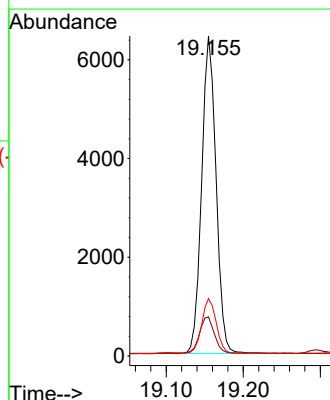
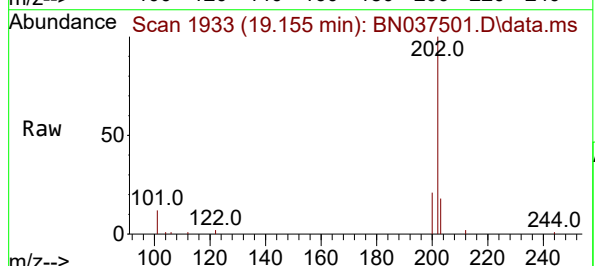
Tgt Ion:202 Resp: 8352

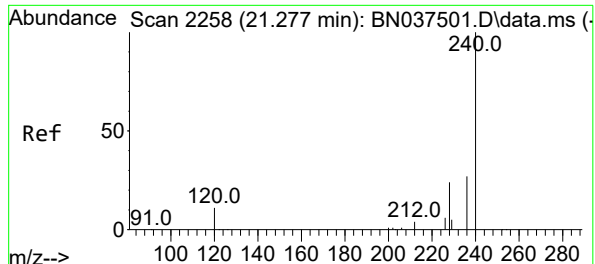
Ion Ratio Lower Upper

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

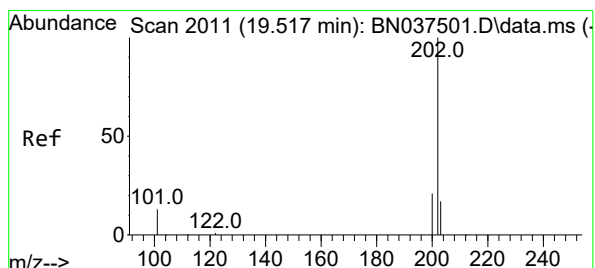
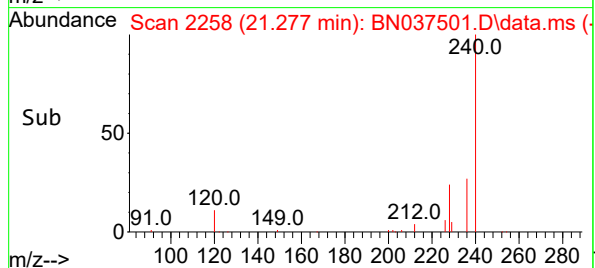
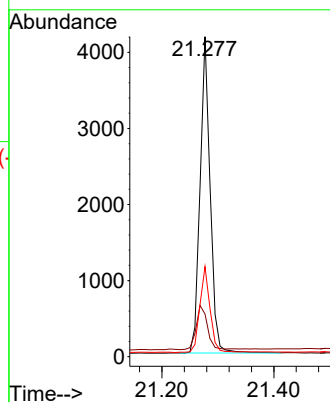
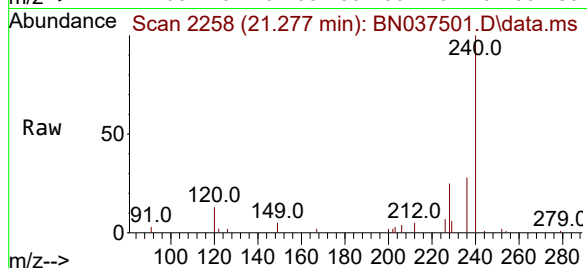
Tgt Ion:240 Resp: 5210

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

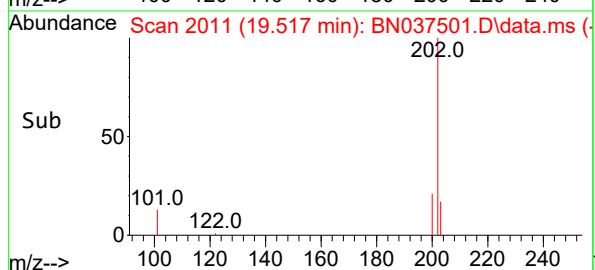
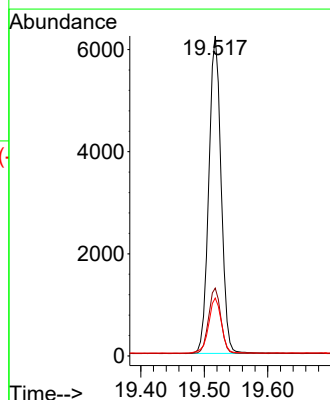
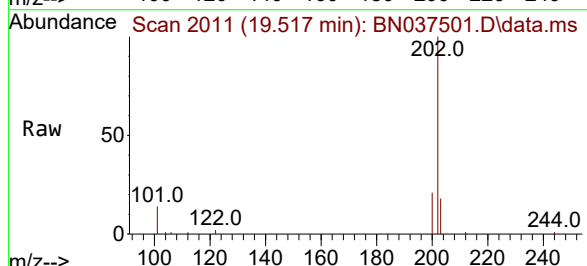
Tgt Ion:202 Resp: 8375

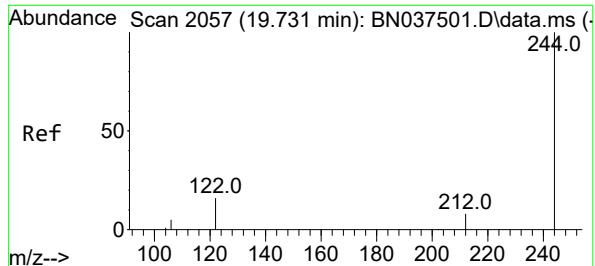
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.9 14.3 21.5

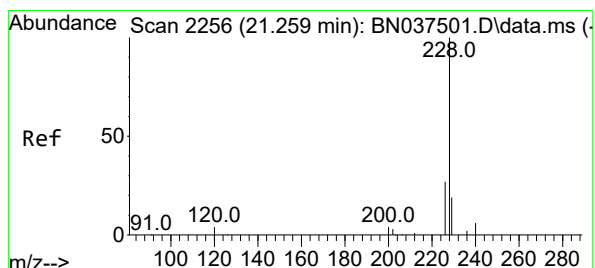
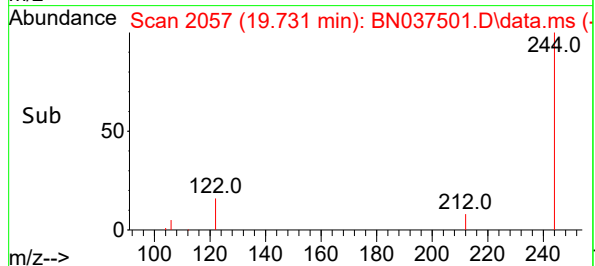
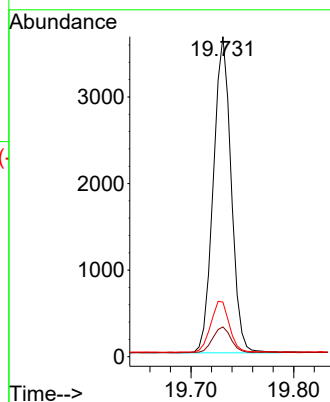
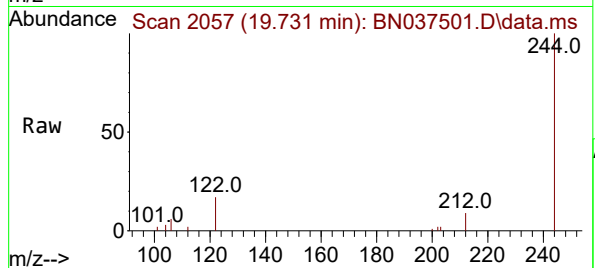




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

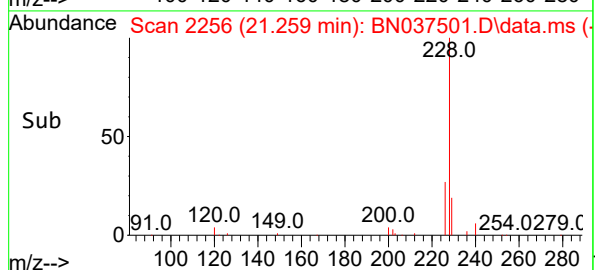
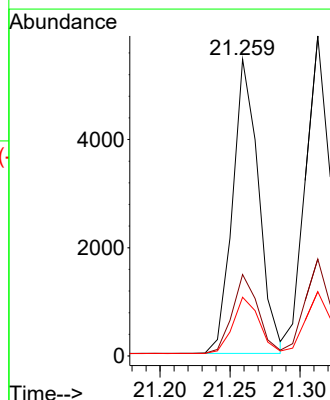
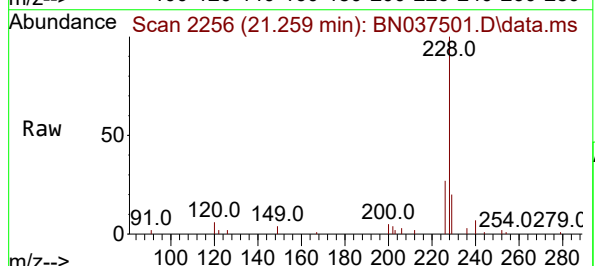
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

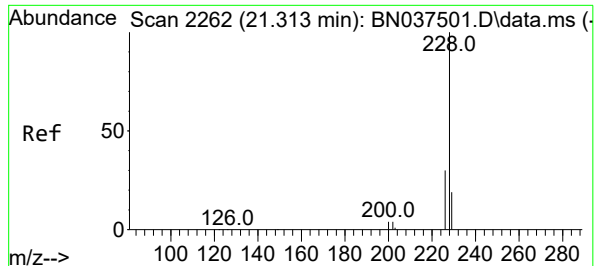
Tgt Ion:244 Resp: 4396
Ion Ratio Lower Upper
244 100
212 9.3 7.4 11.2
122 17.0 13.6 20.4



#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

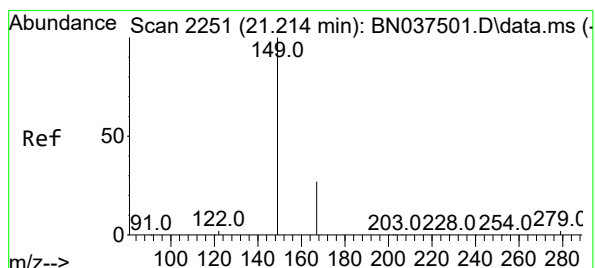
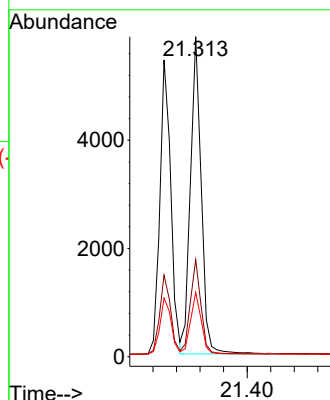
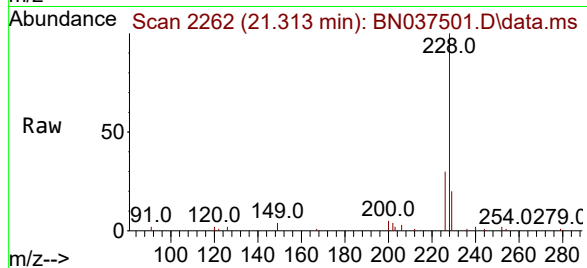
Tgt Ion:228 Resp: 7472

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

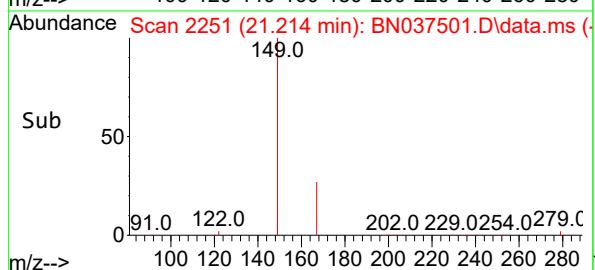
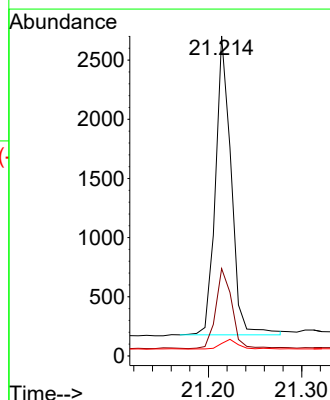
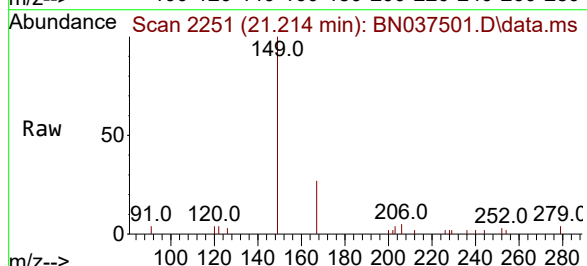
Tgt Ion:149 Resp: 2941

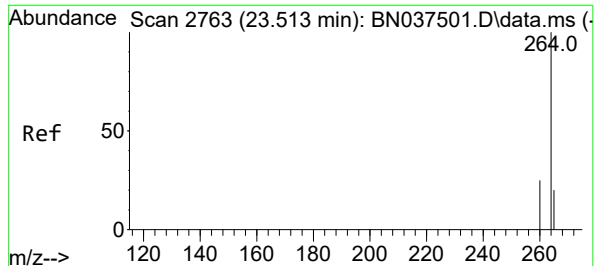
Ion Ratio Lower Upper

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

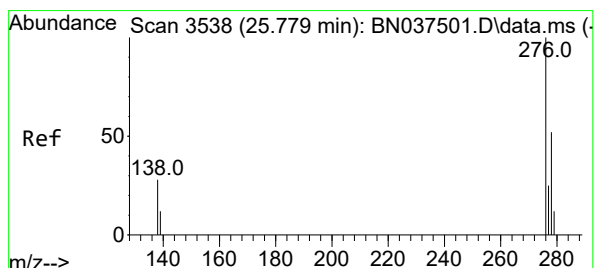
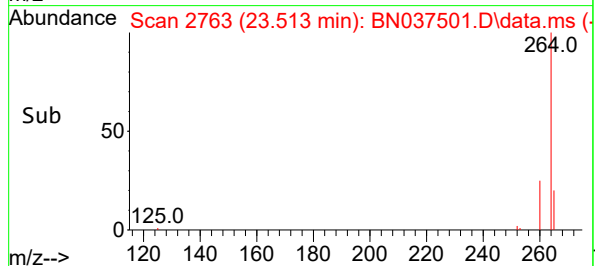
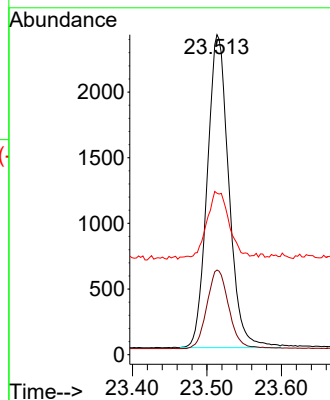
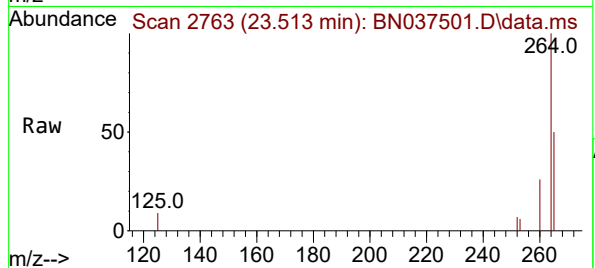
Tgt Ion:264 Resp: 4807

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

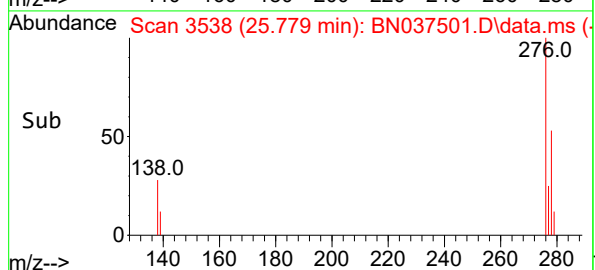
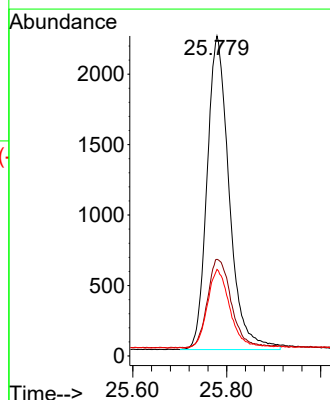
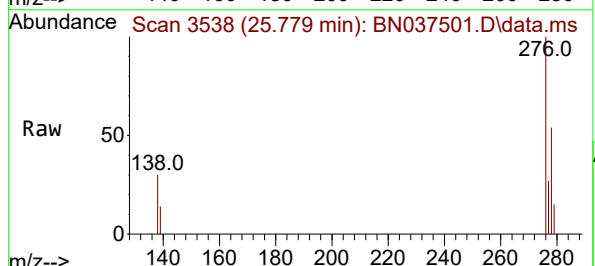
Tgt Ion:276 Resp: 7280

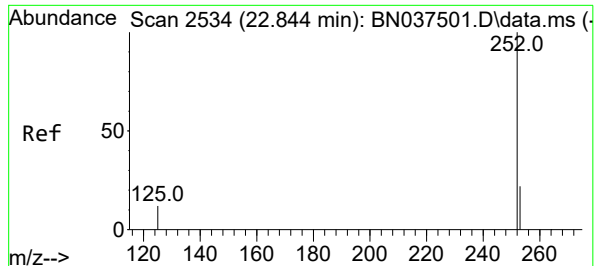
Ion Ratio Lower Upper

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

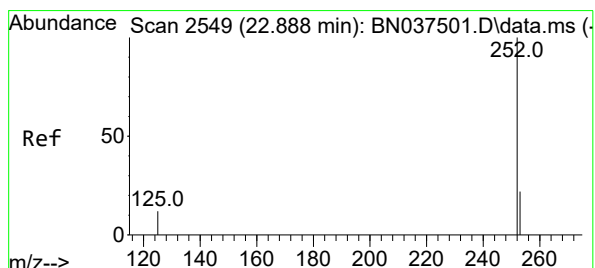
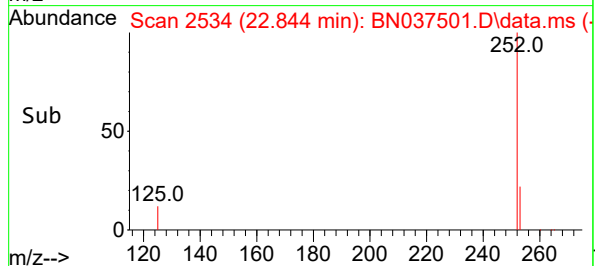
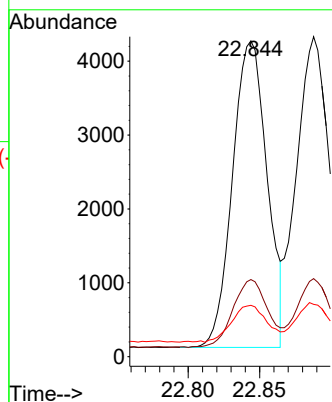
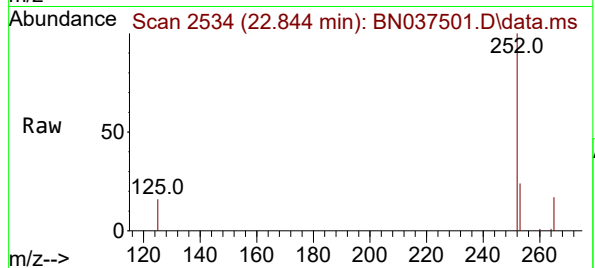
Tgt Ion:252 Resp: 6988

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

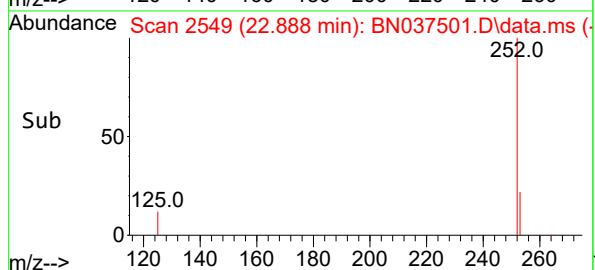
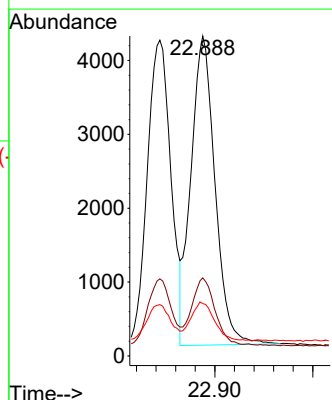
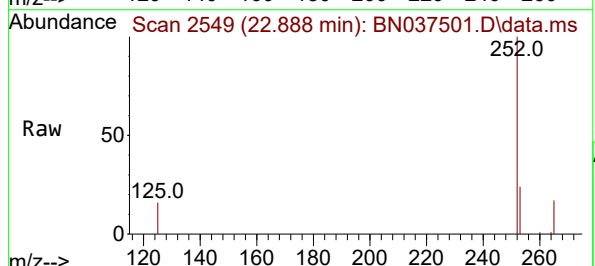
Tgt Ion:252 Resp: 7143

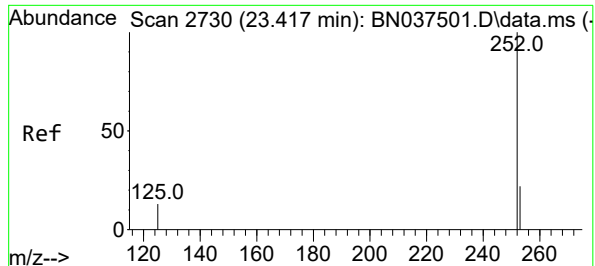
Ion Ratio Lower Upper

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

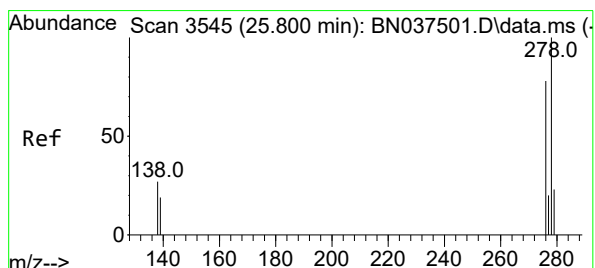
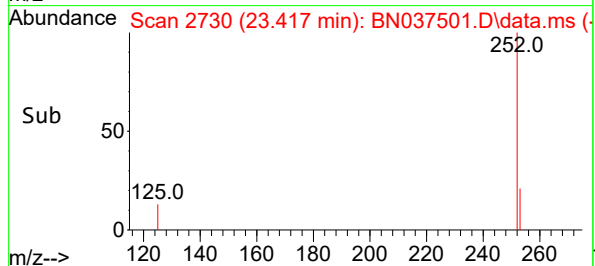
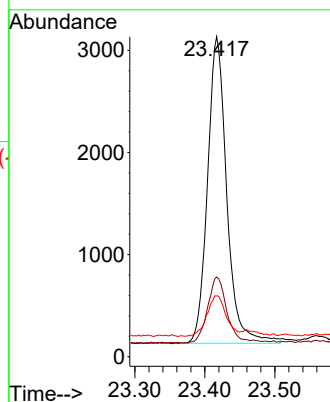
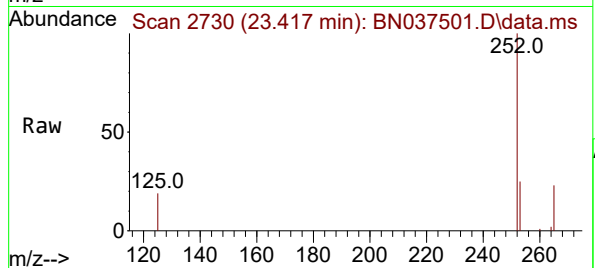
Tgt Ion:252 Resp: 5731

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

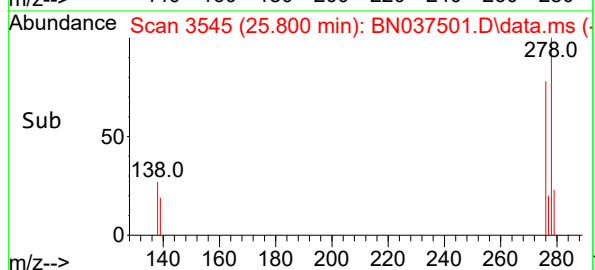
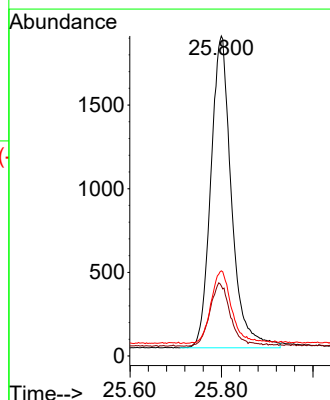
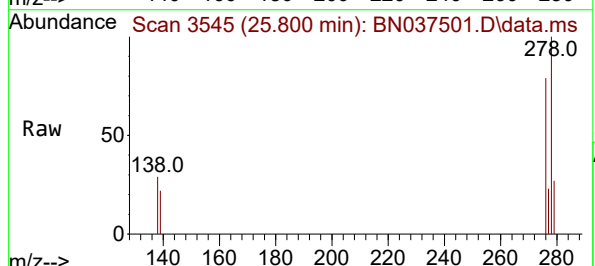
Tgt Ion:278 Resp: 5845

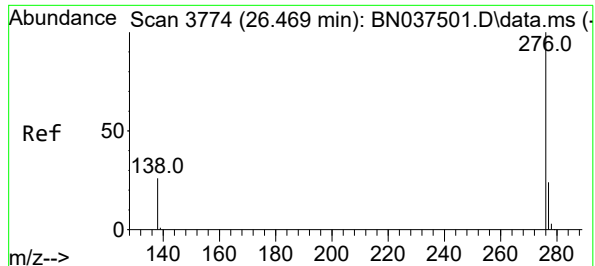
Ion Ratio Lower Upper

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

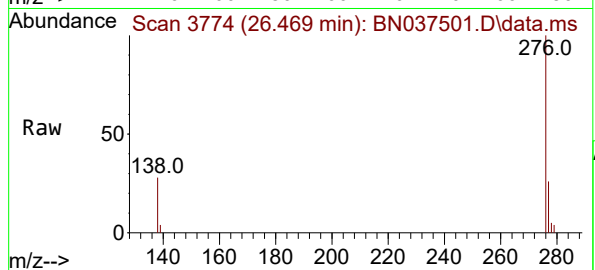
Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



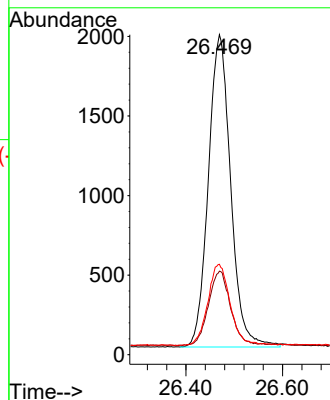
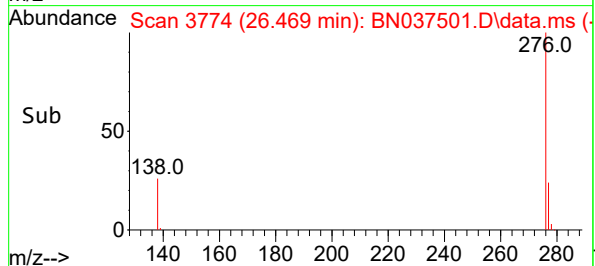
Tgt Ion:276 Resp: 6293

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)

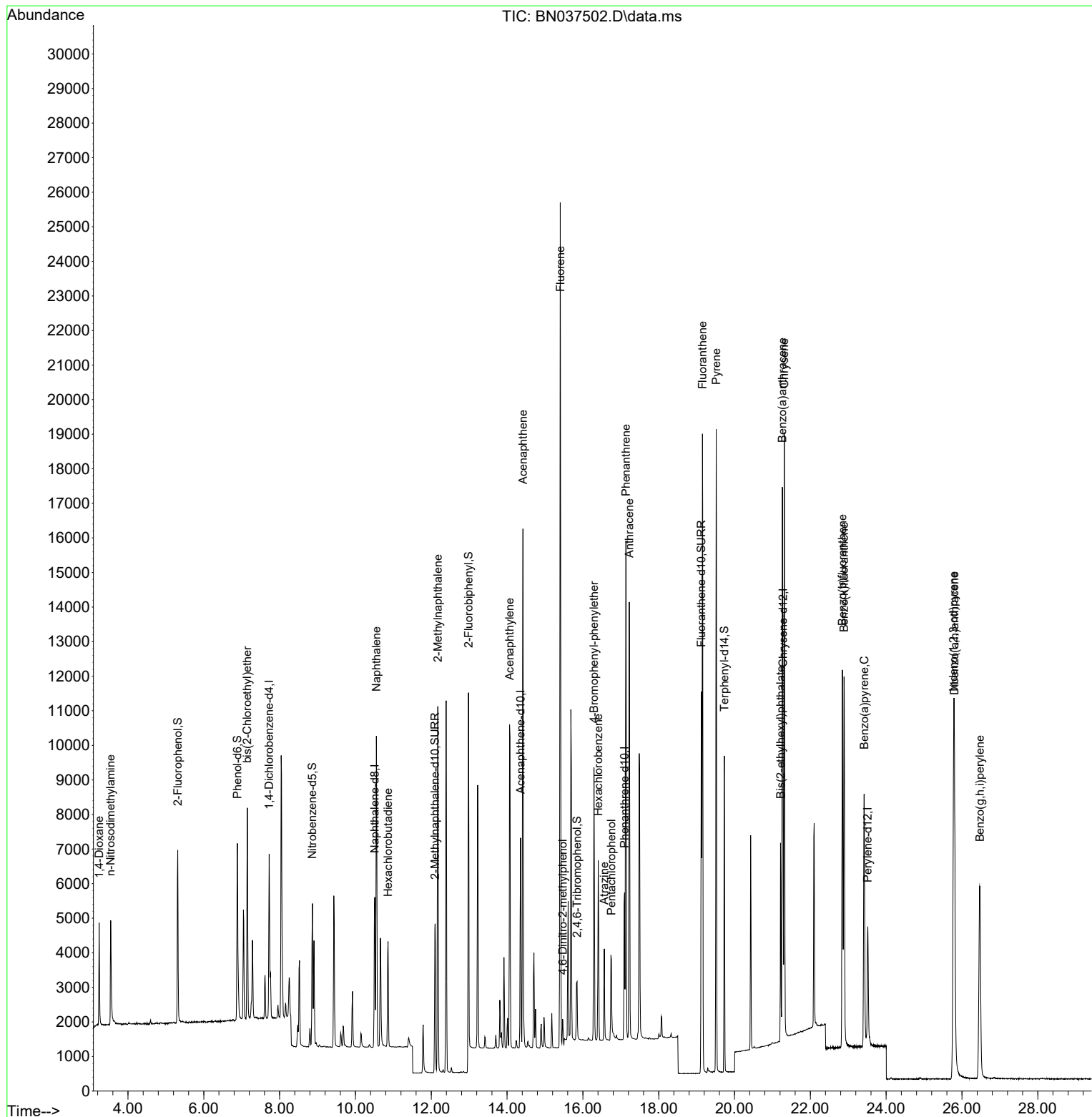
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2213	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5743	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3273	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6314	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5167	0.400	ng	0.00
35) Perylene-d12	23.516	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						Qvalue
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

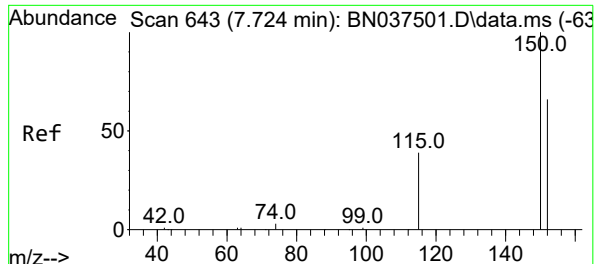
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071525\
Data File : BN037502.D
Acq On : 15 Jul 2025 14:25
Operator : RC/JU
Sample : 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

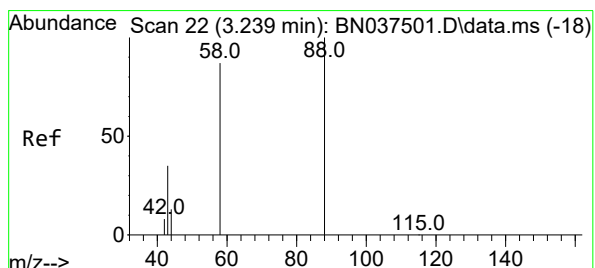
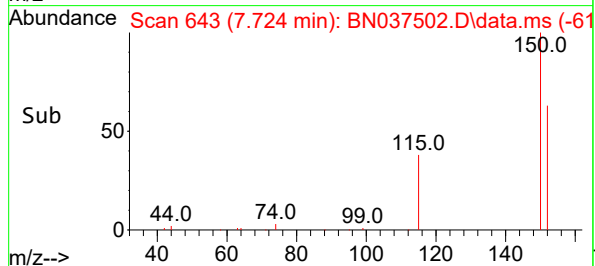
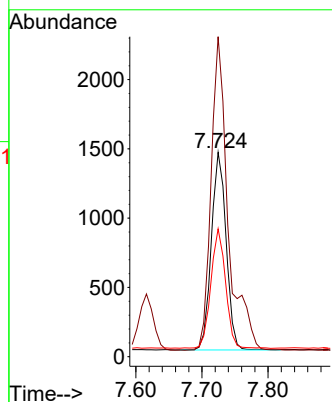
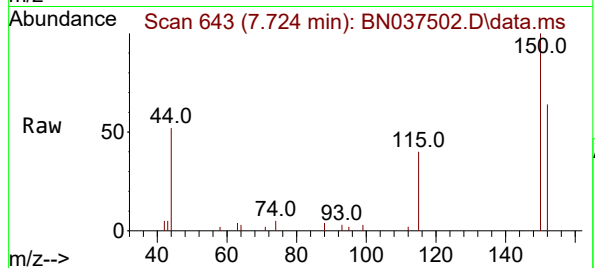




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

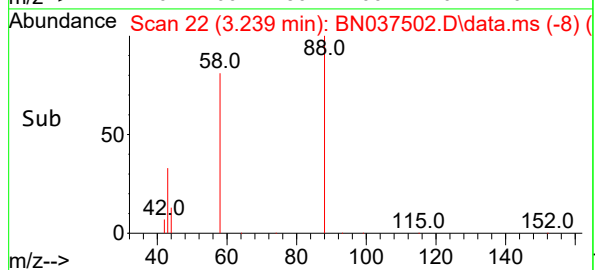
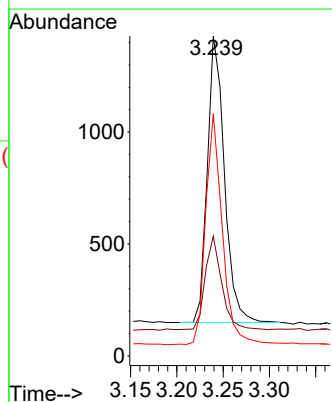
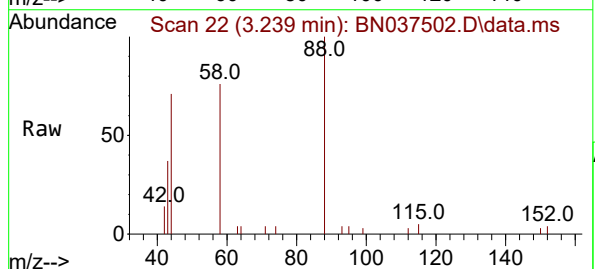
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

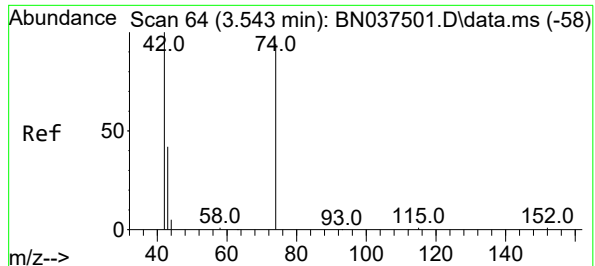
Tgt Ion:152 Resp: 2213
Ion Ratio Lower Upper
152 100
150 156.6 119.8 179.8
115 62.6 49.1 73.7



#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

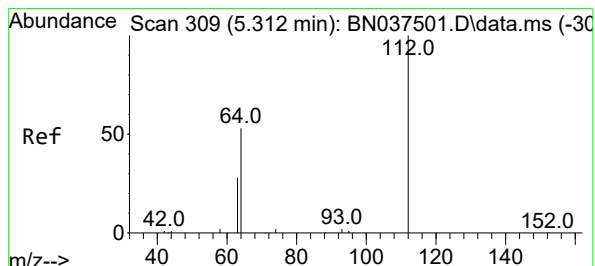
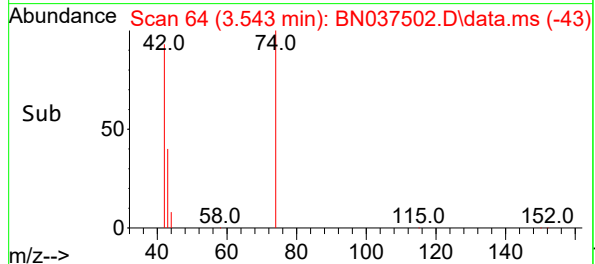
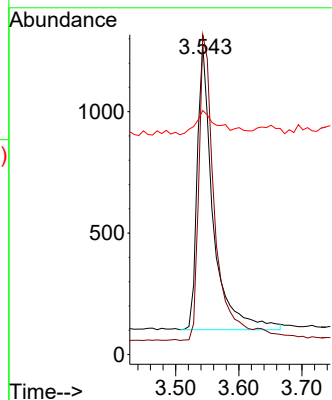
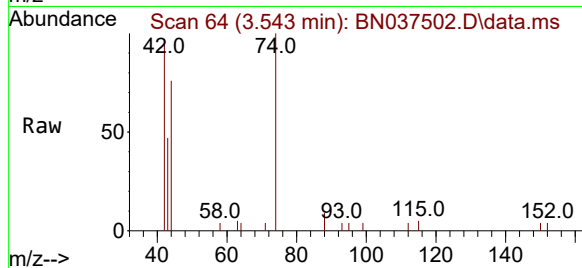




#3
n-Nitrosodimethylamine
Concen: 0.768 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

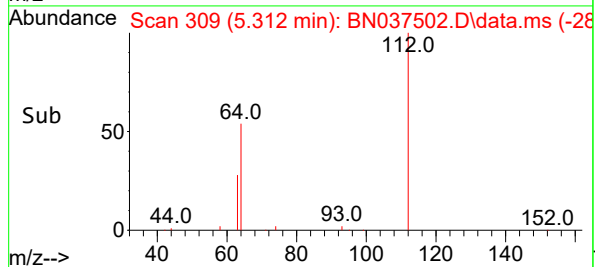
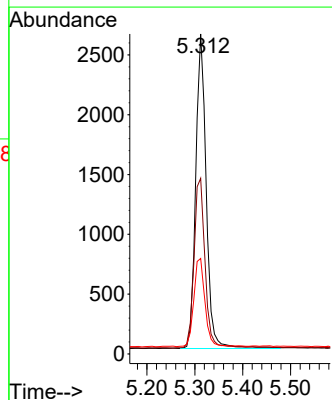
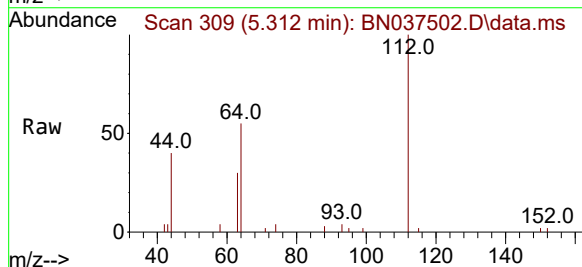
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

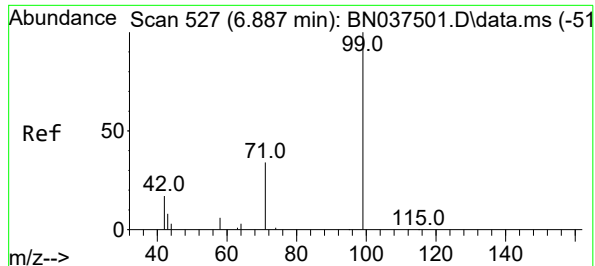
Tgt Ion: 42 Resp: 2056
Ion Ratio Lower Upper
42 100
74 110.1 91.8 137.6
44 12.3 15.0 22.6#



#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

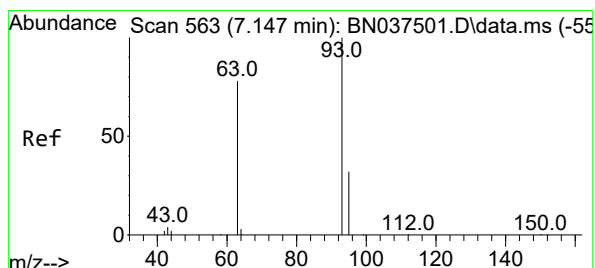
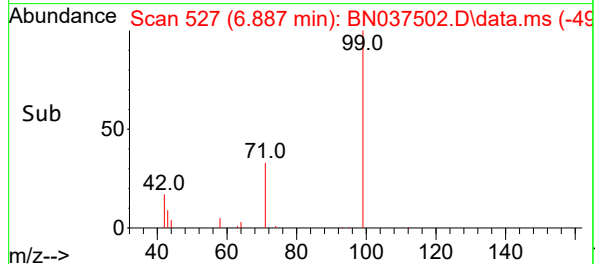
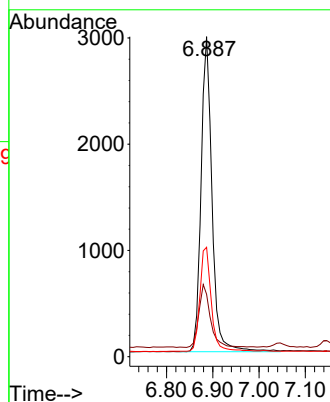
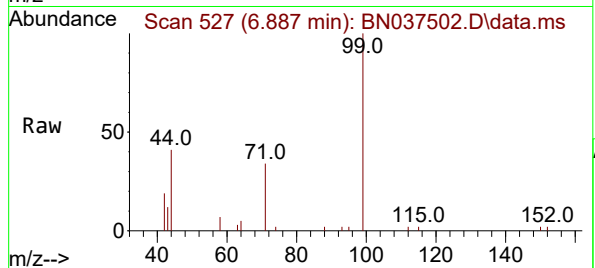




#5
Phenol-d6
Concen: 0.713 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

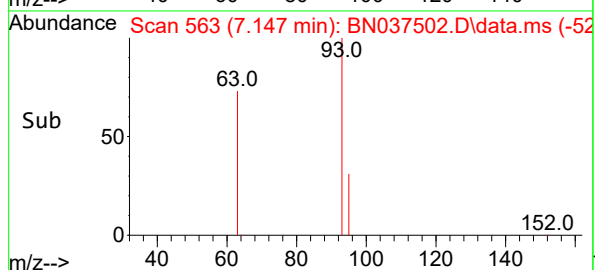
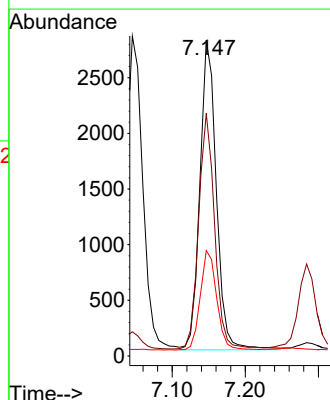
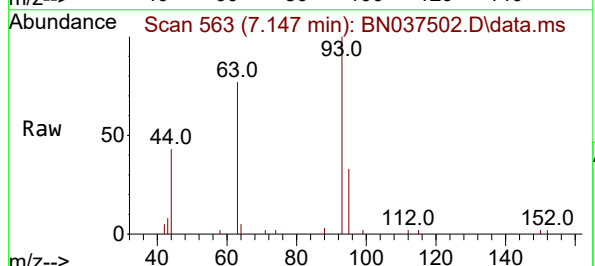
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

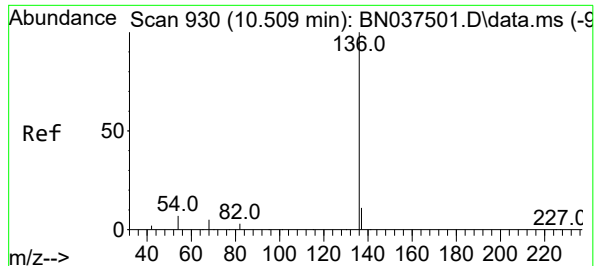
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.1	25.7
71	34.1	27.8	41.8



#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	Ratio	Lower	Upper
93	100		
63	73.6	58.2	87.4
95	32.3	25.3	37.9

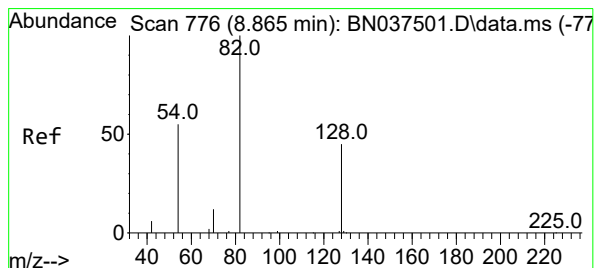
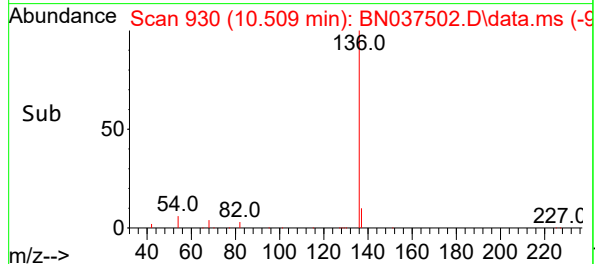
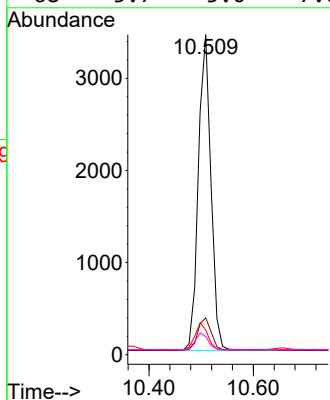
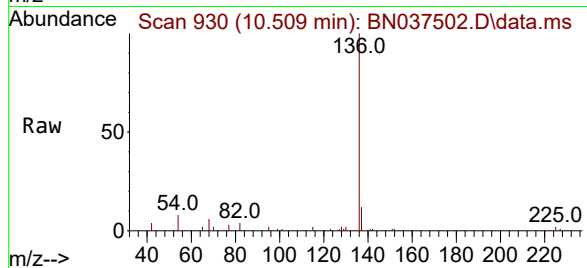




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

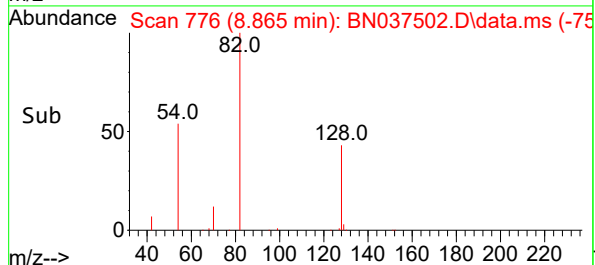
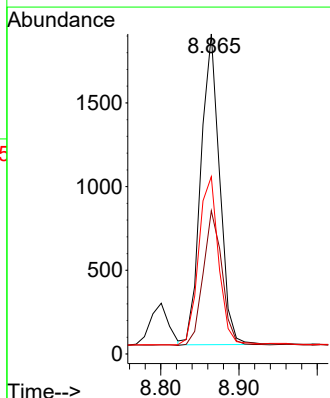
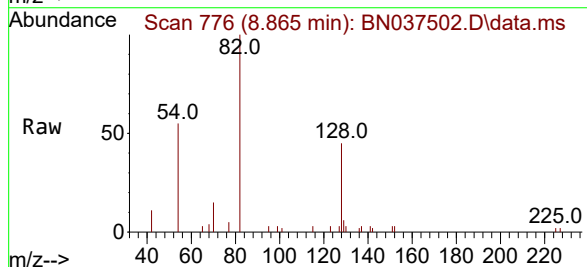
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

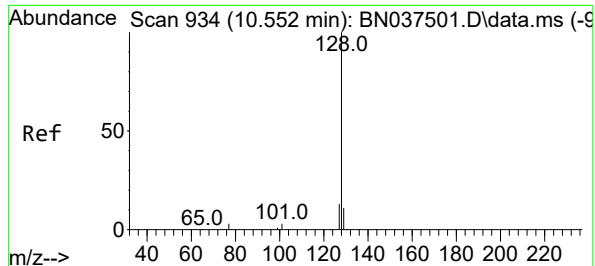
Tgt Ion:	136	Resp:	5743
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.8	14.8
54	7.7	6.6	9.8
68	5.7	5.0	7.6



#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

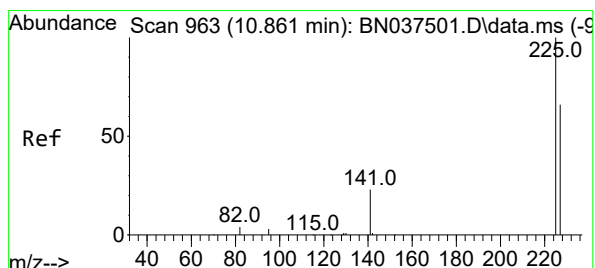
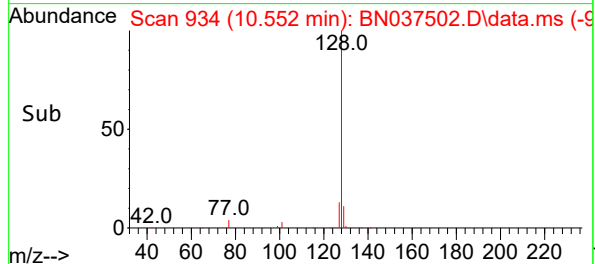
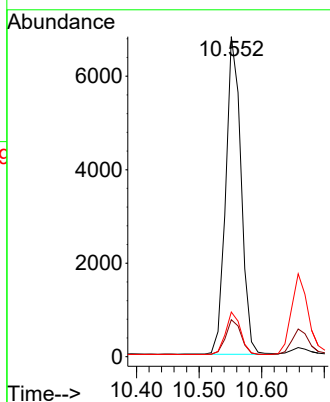
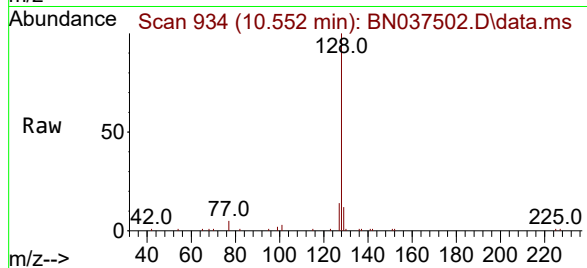




#9
Naphthalene
Concen: 0.756 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

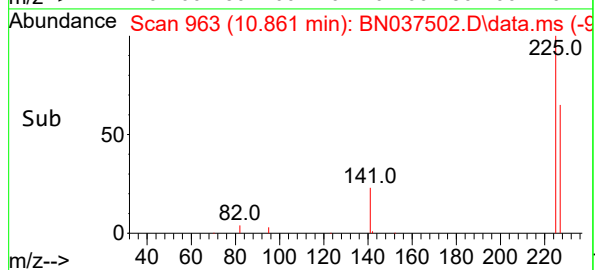
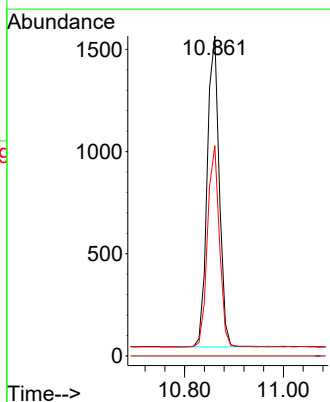
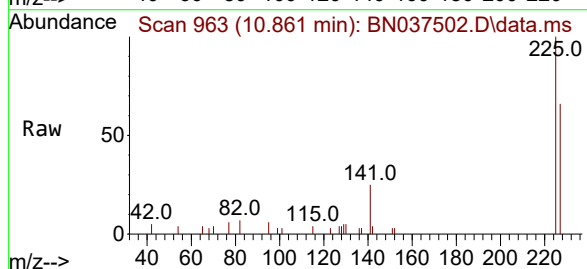
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

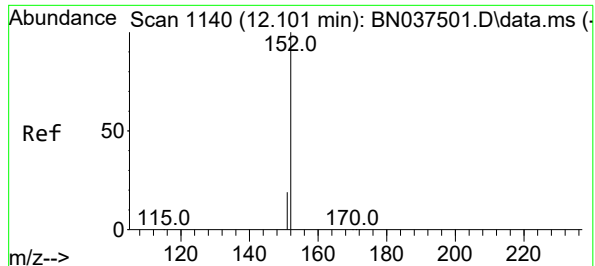
Tgt Ion:128 Resp: 11585
Ion Ratio Lower Upper
128 100
129 11.6 9.7 14.5
127 13.9 11.5 17.3



#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:225 Resp: 2561
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.0 76.4

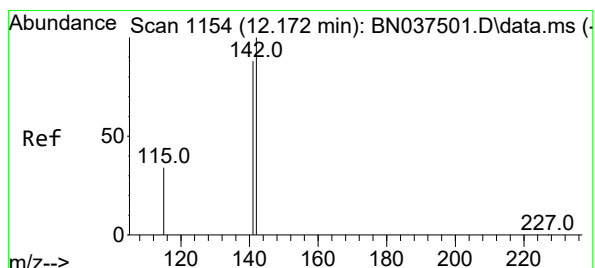
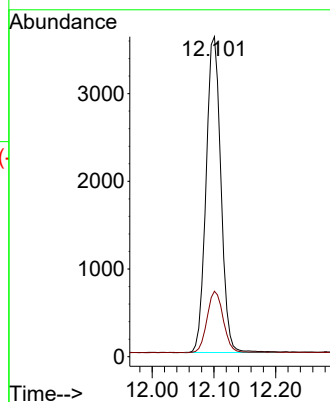
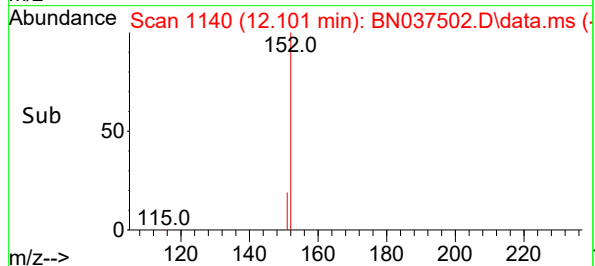
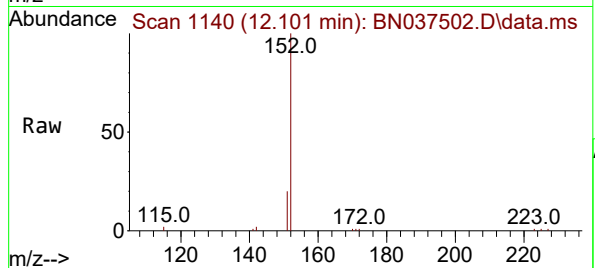




#11
2-Methylnaphthalene-d10
Concen: 0.728 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

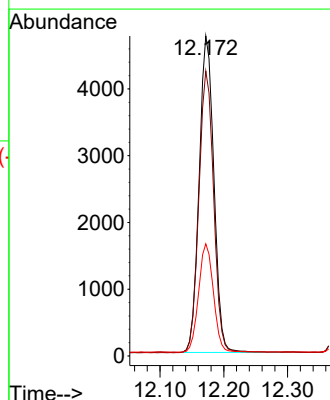
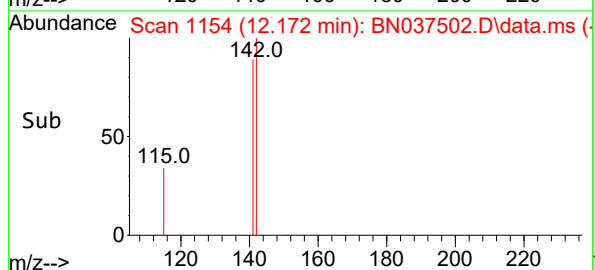
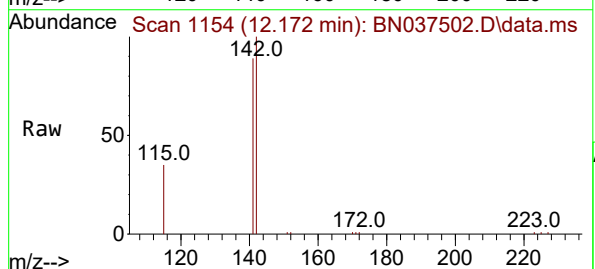
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

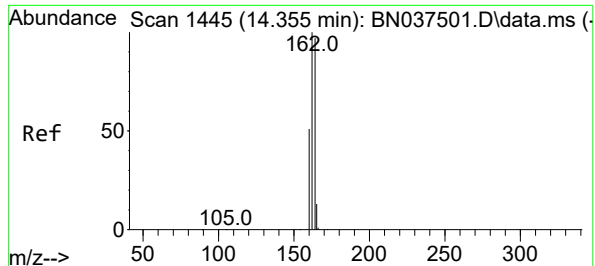
Tgt Ion:152 Resp: 5995
Ion Ratio Lower Upper
152 100
151 21.3 16.8 25.2



#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

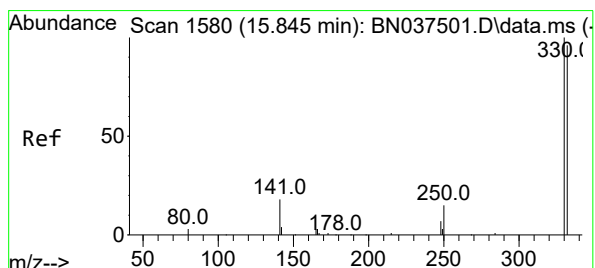
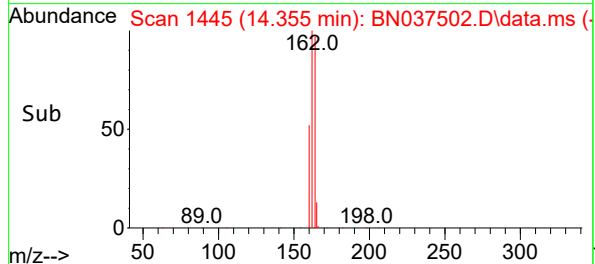
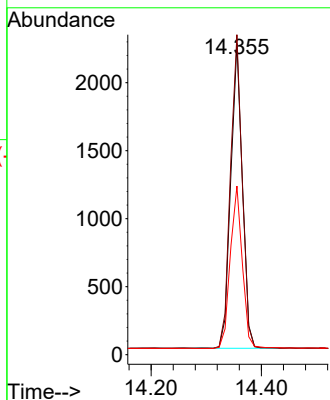
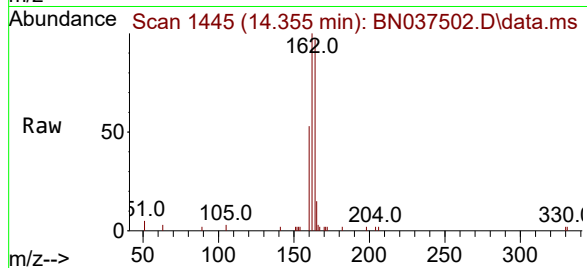




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

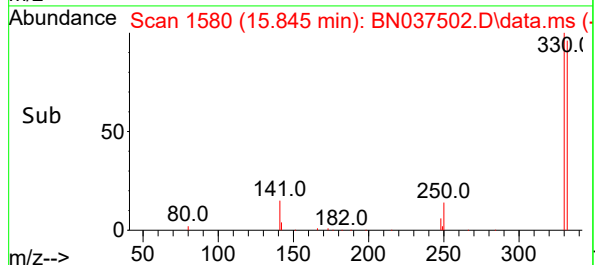
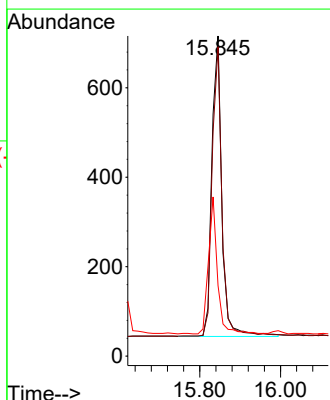
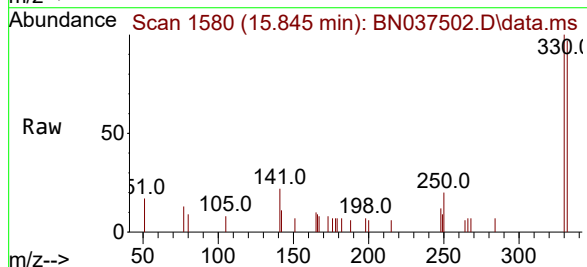
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

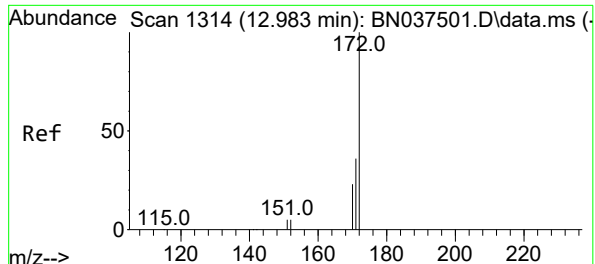
Tgt Ion:164 Resp: 3273
Ion Ratio Lower Upper
164 100
162 102.8 82.0 123.0
160 54.2 42.4 63.6



#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

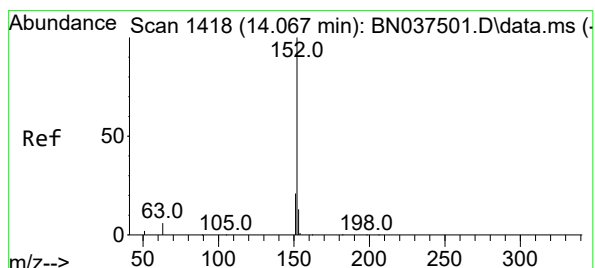
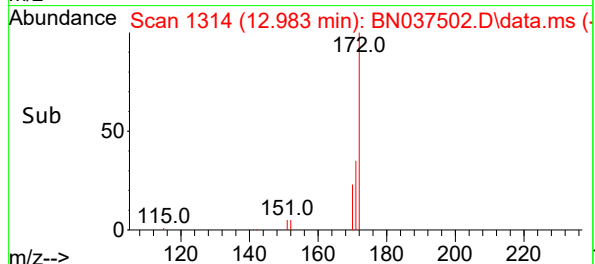
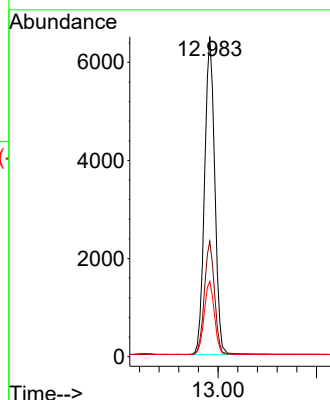
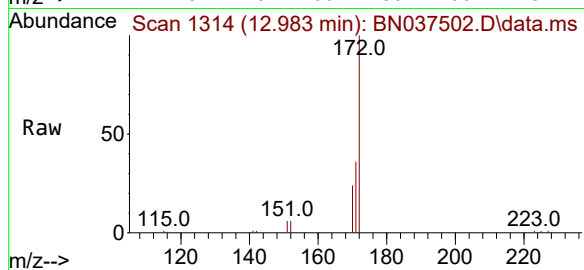
Tgt Ion:172 Resp: 13250

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

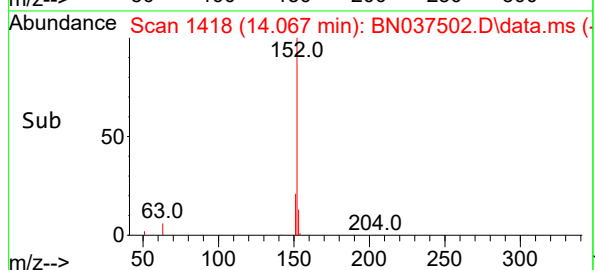
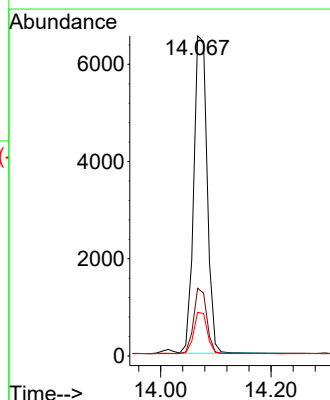
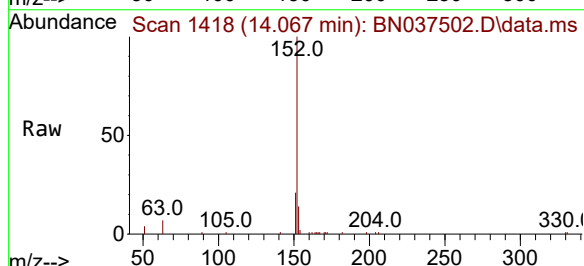
Tgt Ion:152 Resp: 11025

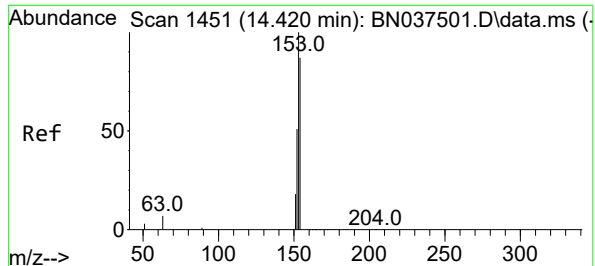
Ion Ratio Lower Upper

152 100

151 20.3 15.9 23.9

153 12.9 10.7 16.1

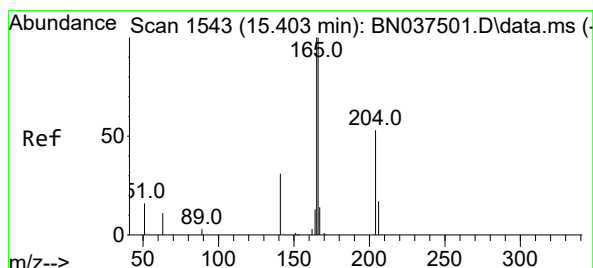
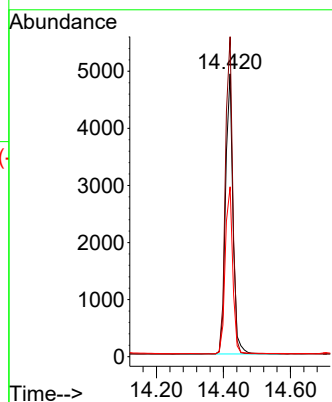
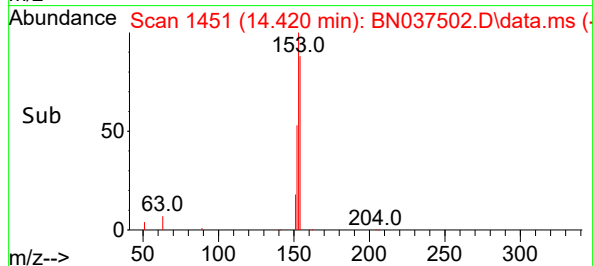
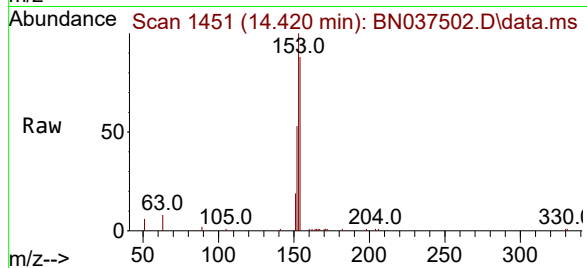




#17
Acenaphthene
Concen: 0.755 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

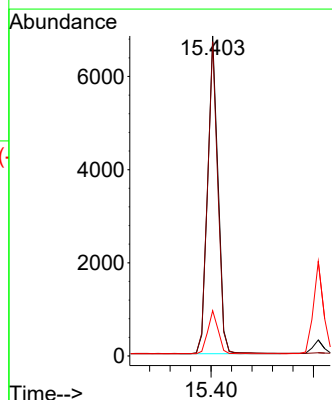
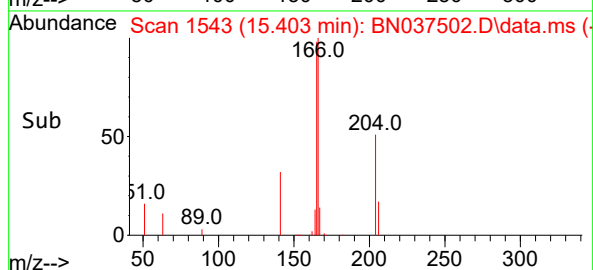
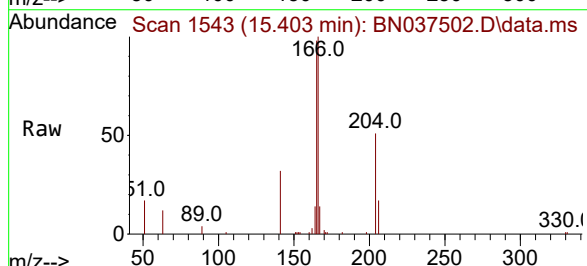
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

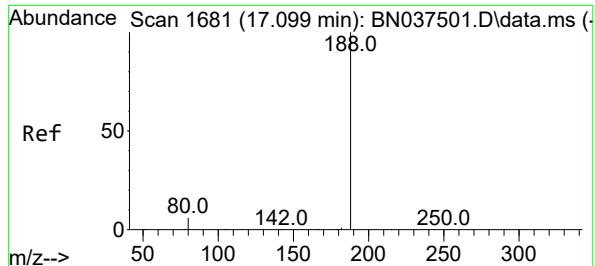
Tgt Ion:154 Resp: 7528
Ion Ratio Lower Upper
154 100
153 111.1 89.2 133.8
152 60.2 48.0 72.0



#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

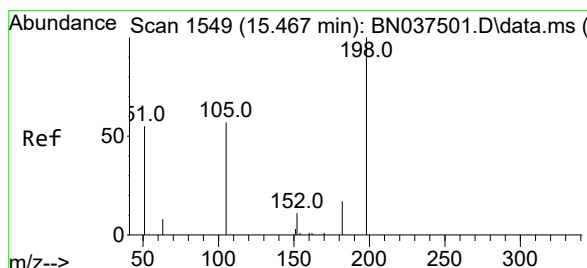
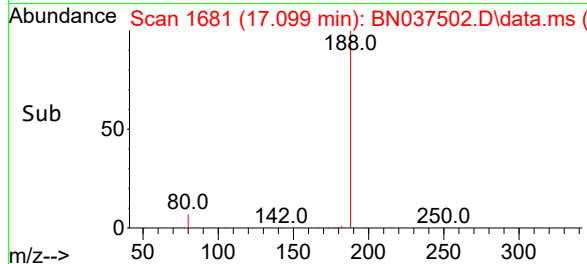
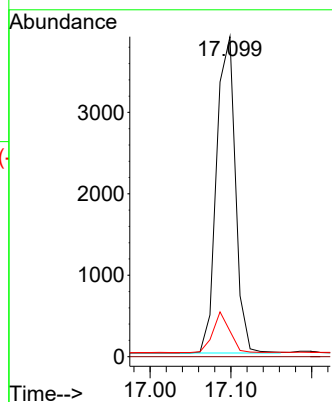
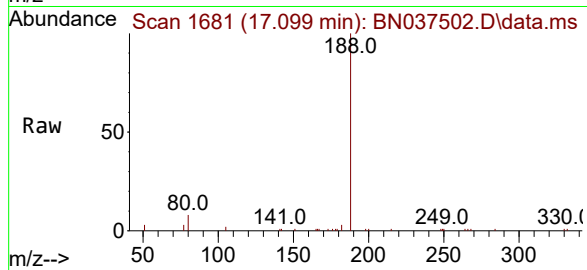
Tgt Ion:188 Resp: 6314

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

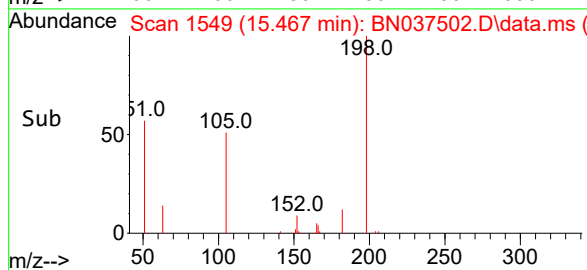
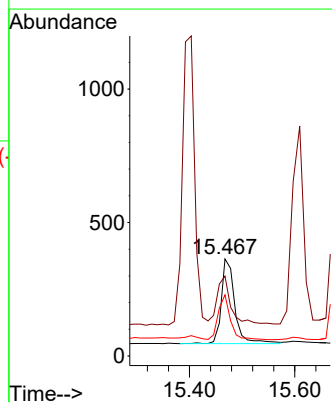
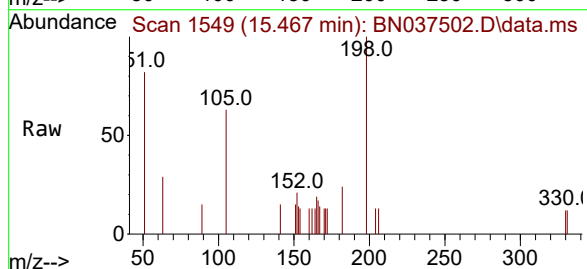
Tgt Ion:198 Resp: 589

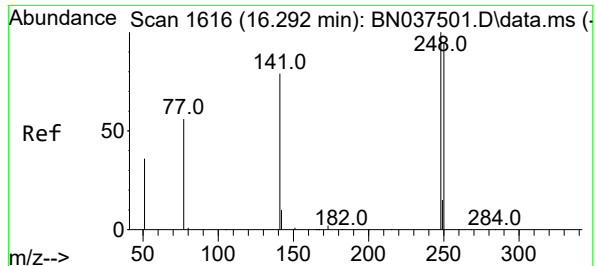
Ion Ratio Lower Upper

198 100

51 82.4 88.5 132.7#

105 63.1 61.2 91.8

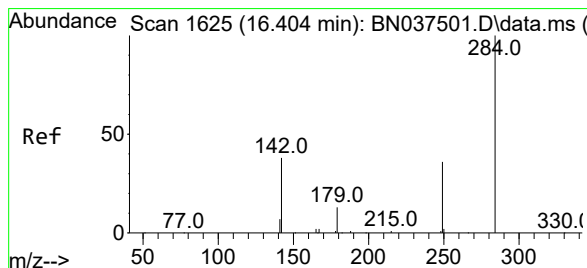
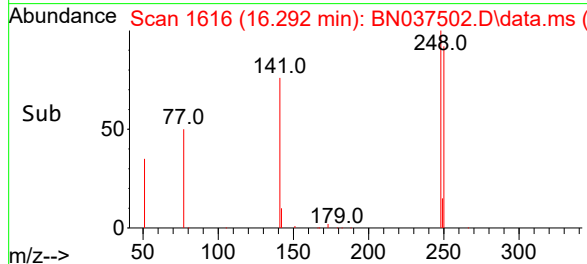
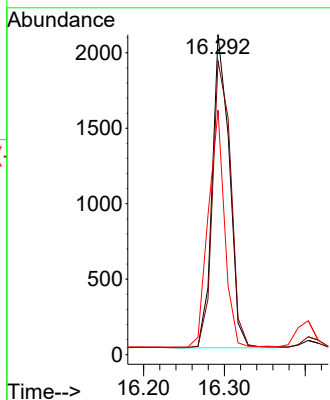
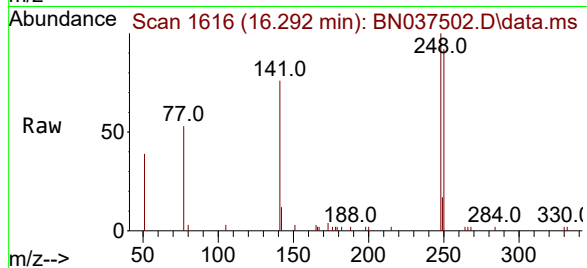




#21
4-Bromophenyl-phenylether
Concen: 0.755 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

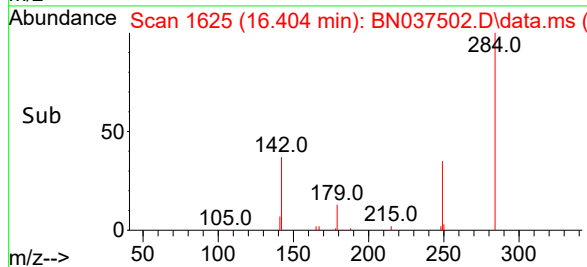
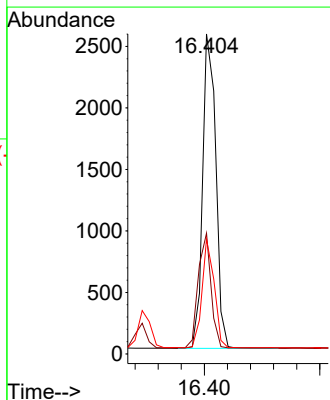
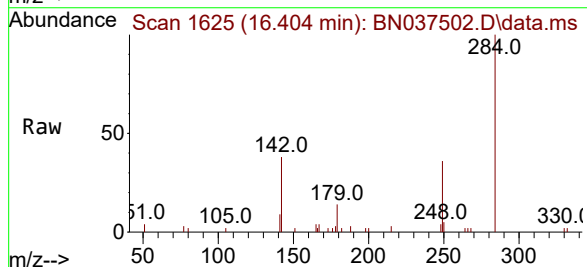
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

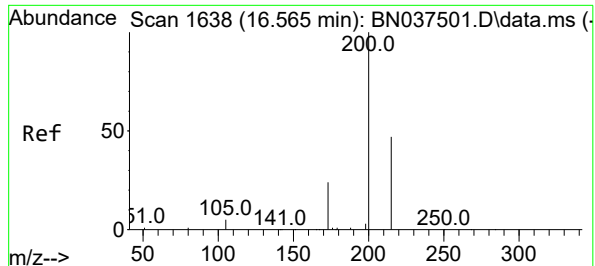
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.8	76.2	114.2
141	76.4	63.9	95.9



#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

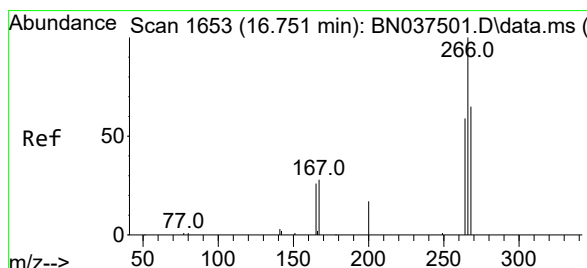
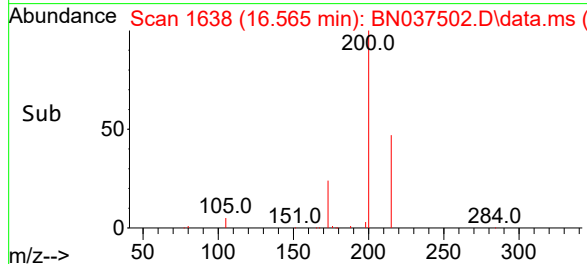
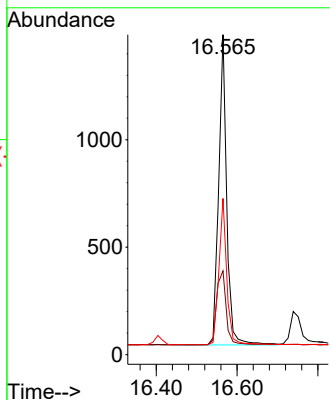
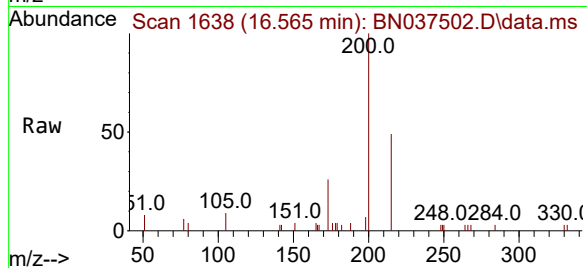




#23
Atrazine
Concen: 0.706 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

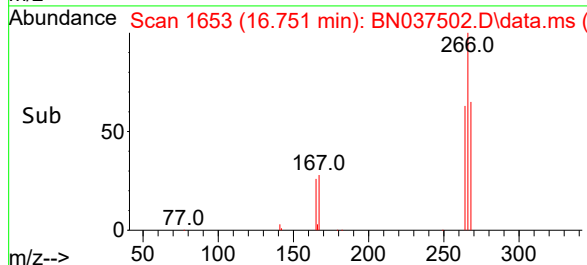
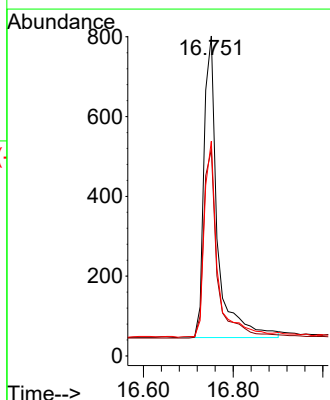
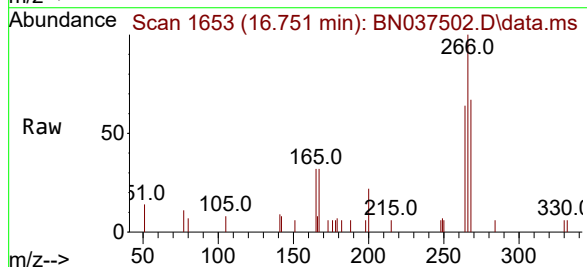
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

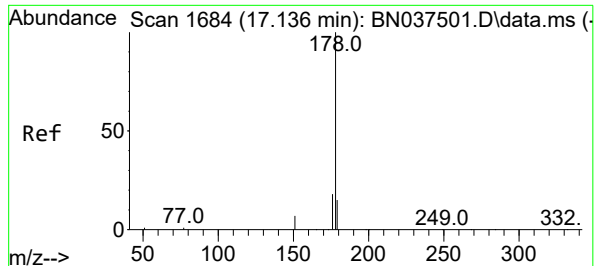
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.2	23.2	34.8
215	48.8	40.2	60.4



#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

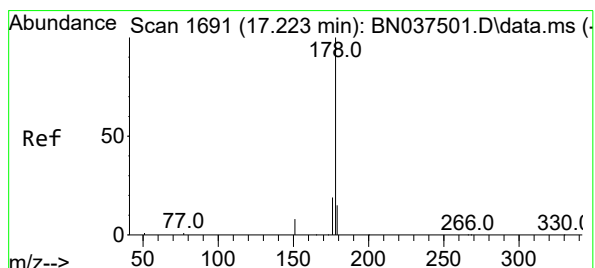
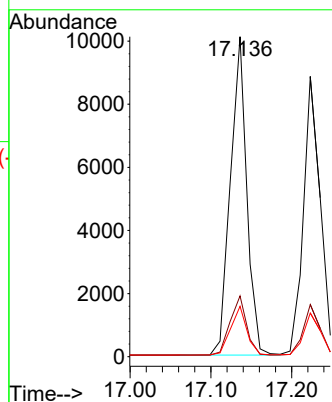
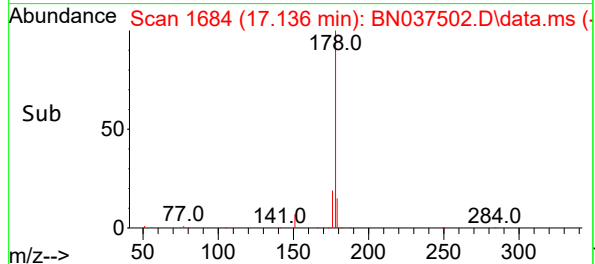
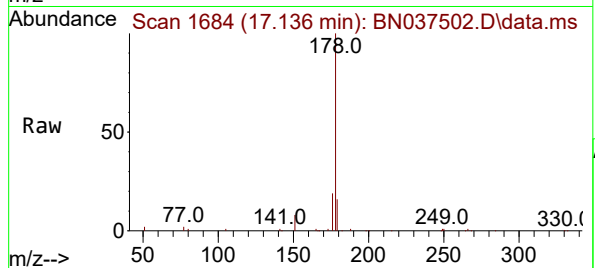




#25
Phenanthrene
Concen: 0.754 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

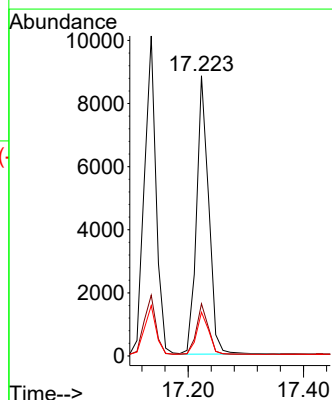
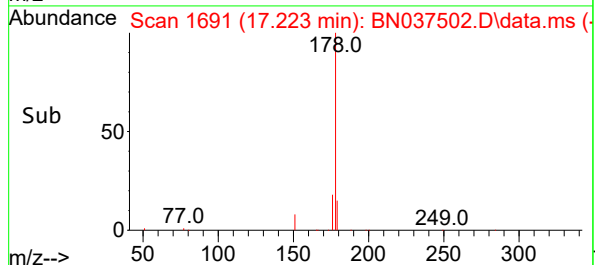
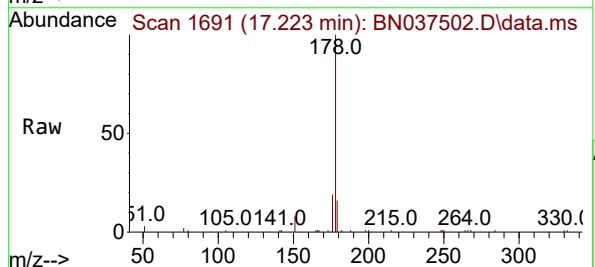
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

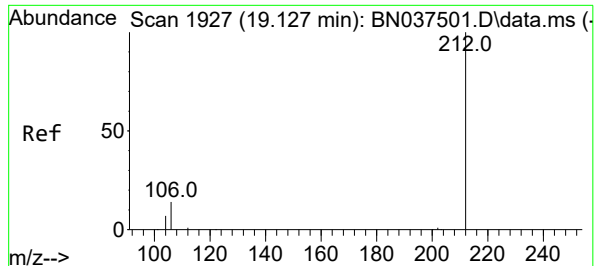
Tgt Ion:178 Resp: 14261
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.2 18.2



#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

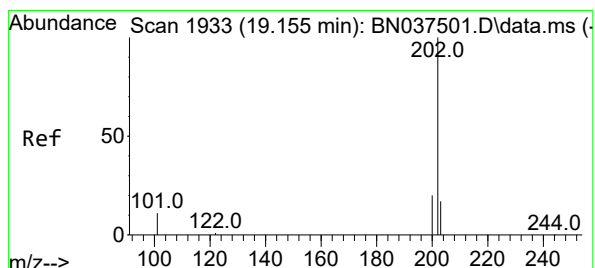
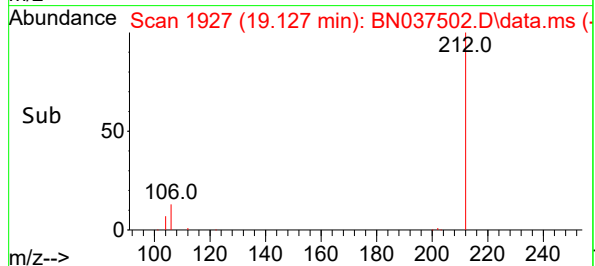
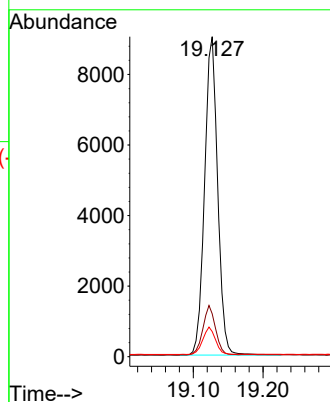
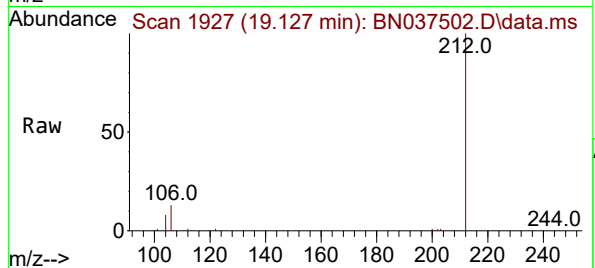
Tgt Ion:212 Resp: 11723

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

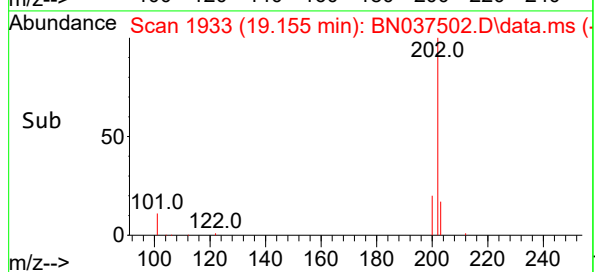
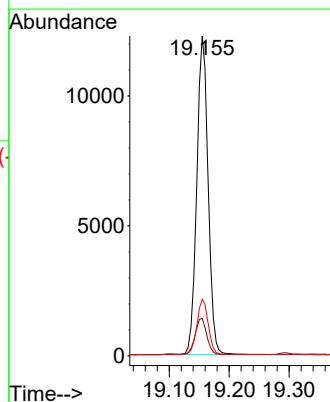
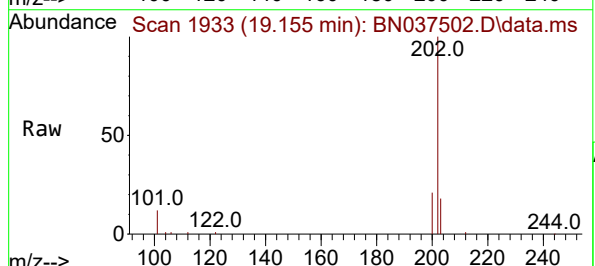
Tgt Ion:202 Resp: 16043

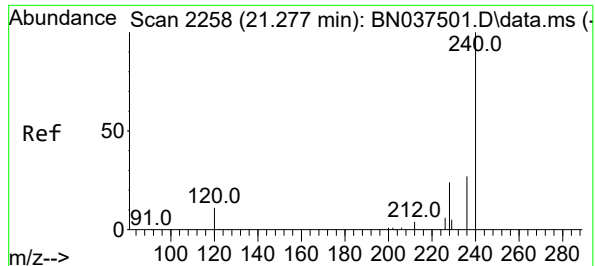
Ion Ratio Lower Upper

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

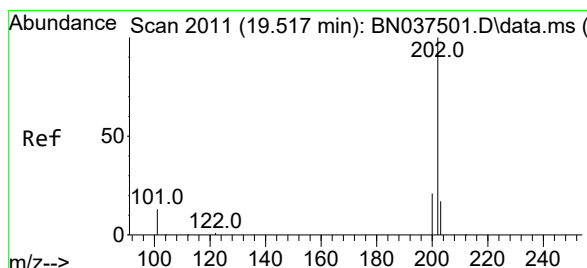
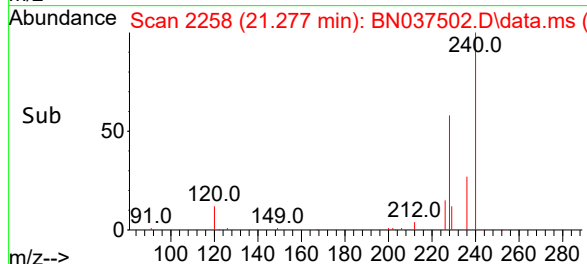
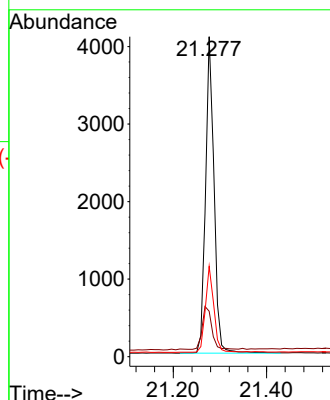
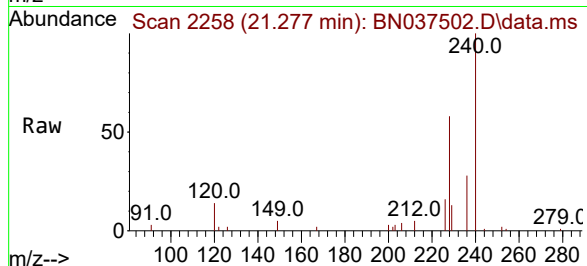
Tgt Ion:240 Resp: 5167

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

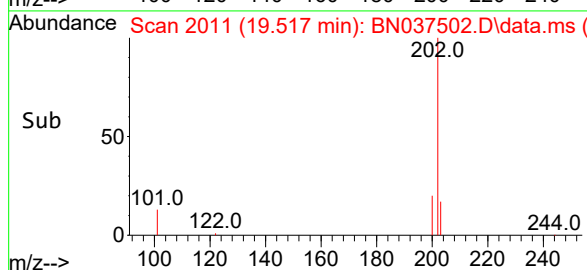
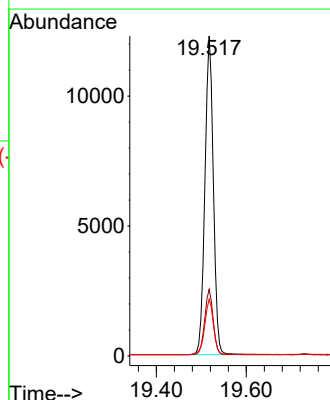
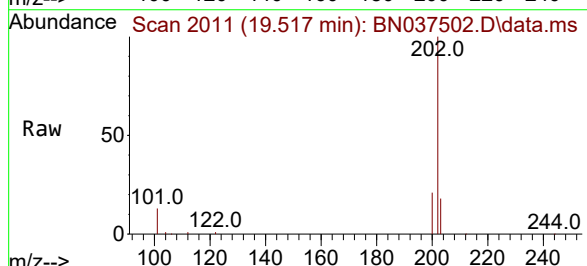
Tgt Ion:202 Resp: 16008

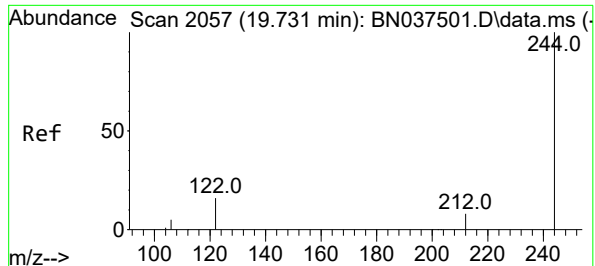
Ion Ratio Lower Upper

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

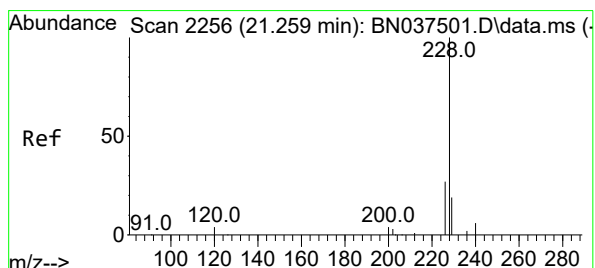
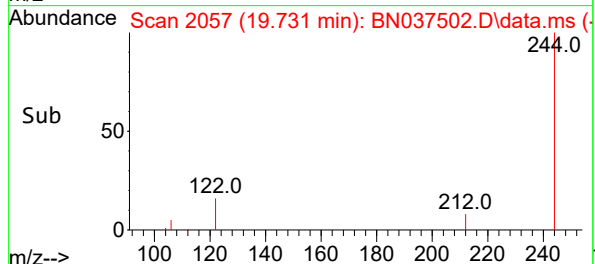
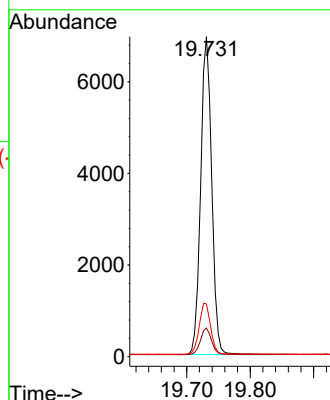
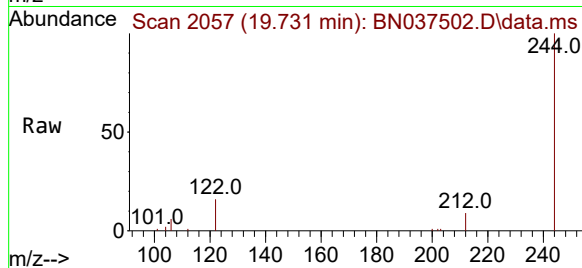
Tgt Ion:244 Resp: 8376

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

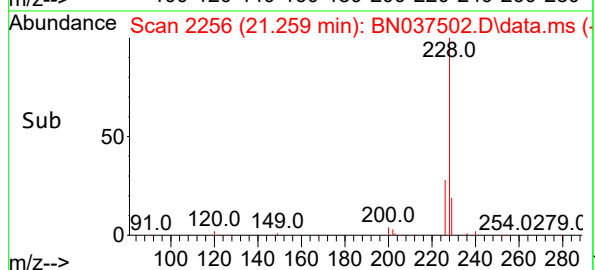
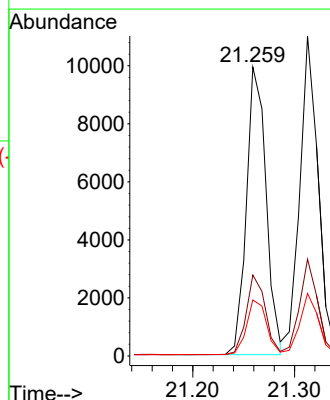
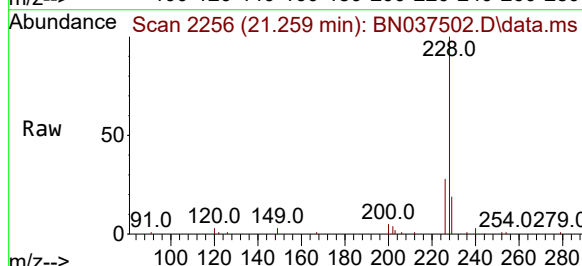
Tgt Ion:228 Resp: 13280

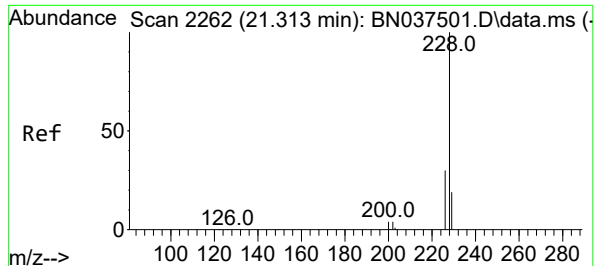
Ion Ratio Lower Upper

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

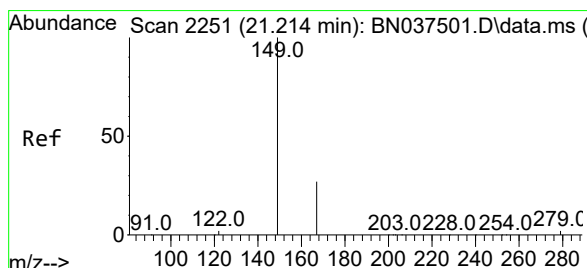
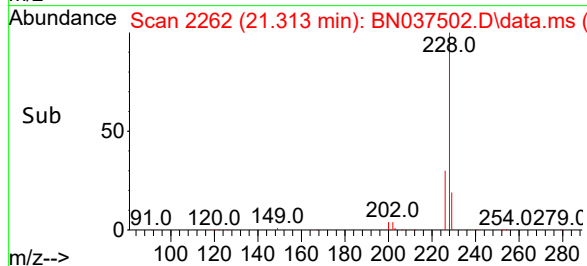
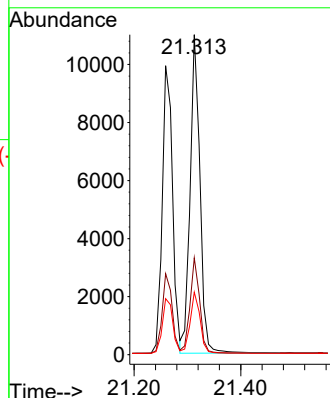
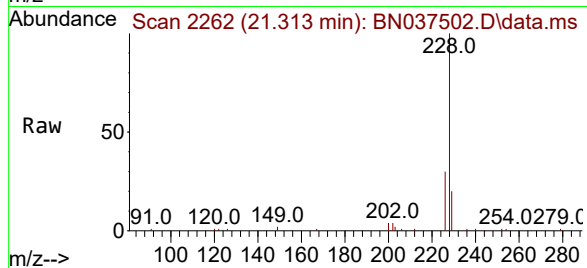
Tgt Ion:228 Resp: 14034

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

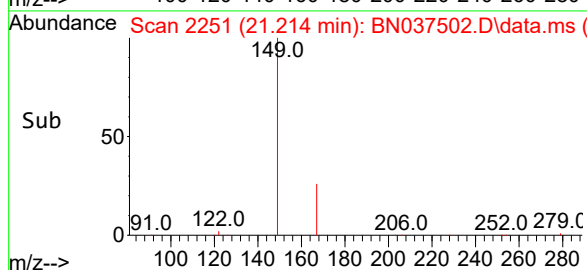
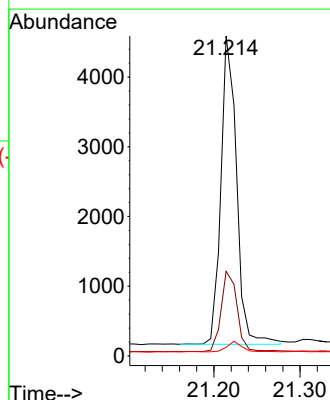
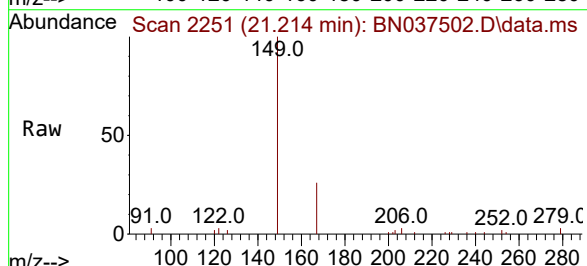
Tgt Ion:149 Resp: 5562

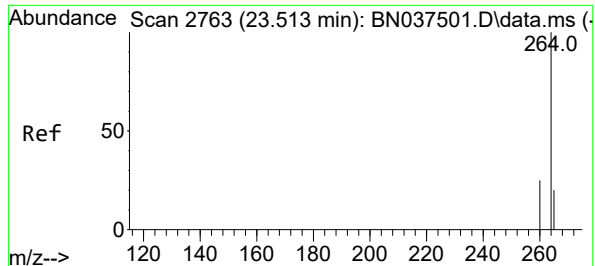
Ion Ratio Lower Upper

149 100

167 26.4 21.8 32.8

279 3.4 3.0 4.4

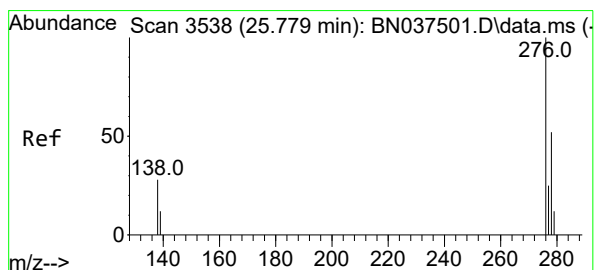
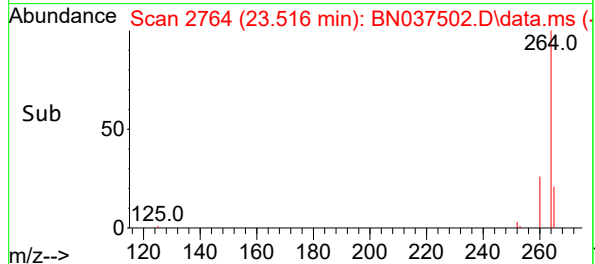
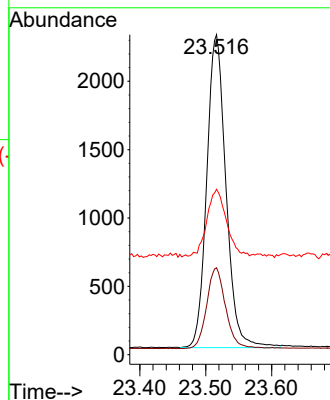
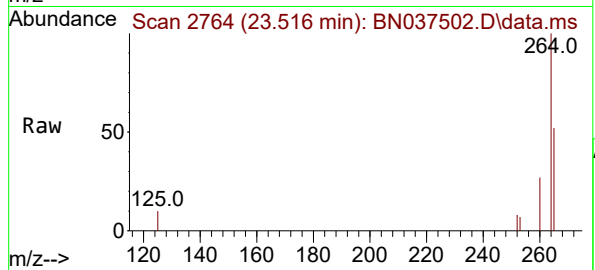




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

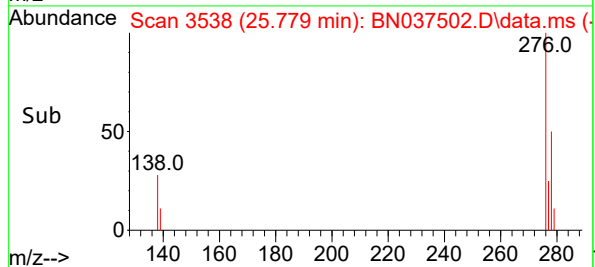
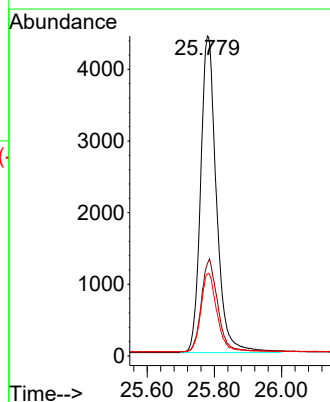
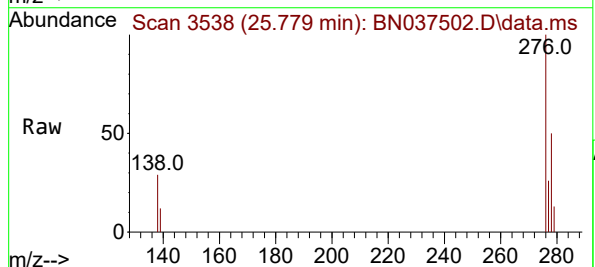
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

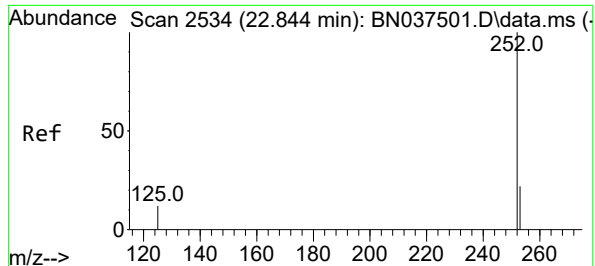
Tgt Ion:264 Resp: 4636
Ion Ratio Lower Upper
264 100
260 27.2 21.2 31.8
265 51.7 40.4 60.6



#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

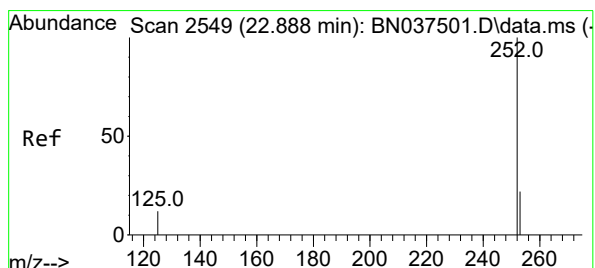
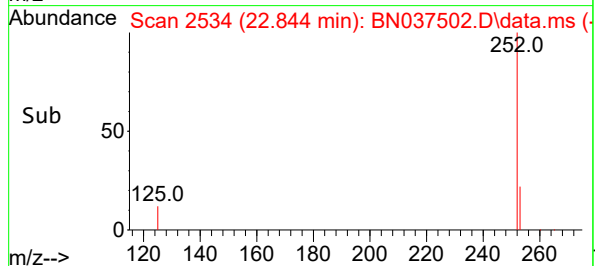
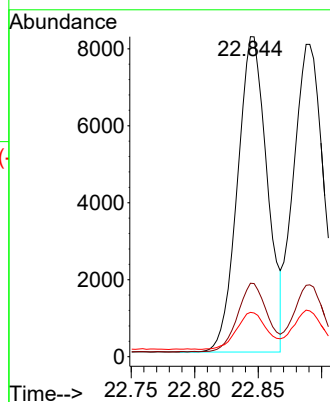
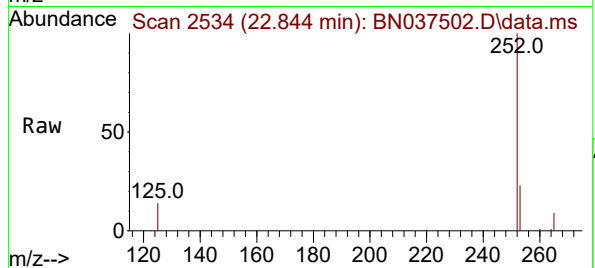
Tgt Ion:252 Resp: 13315

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

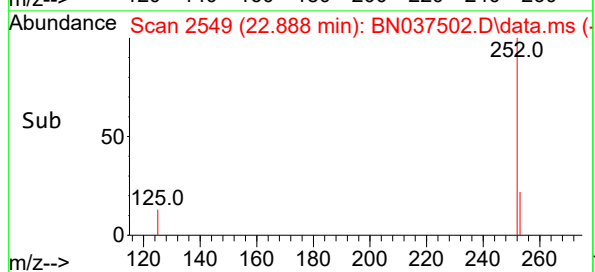
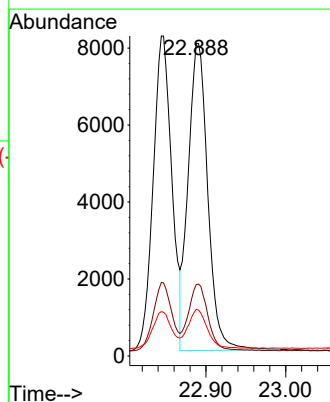
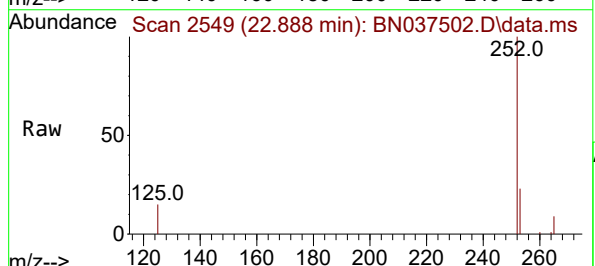
Tgt Ion:252 Resp: 13634

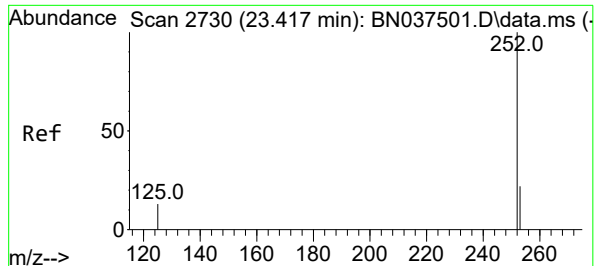
Ion Ratio Lower Upper

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

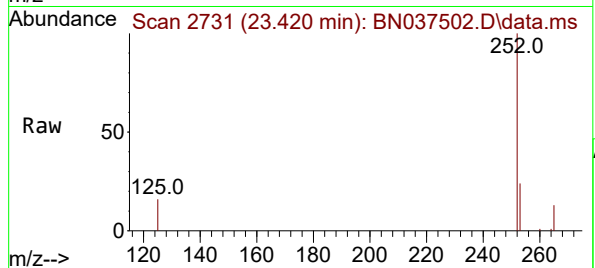
Acq: 15 Jul 2025 14:25

Instrument :

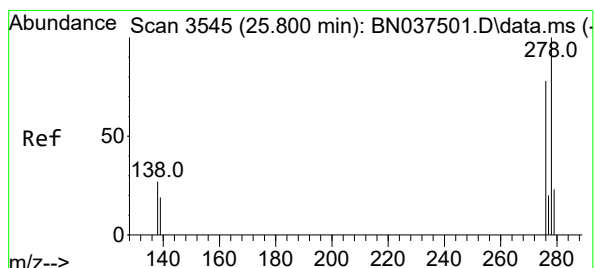
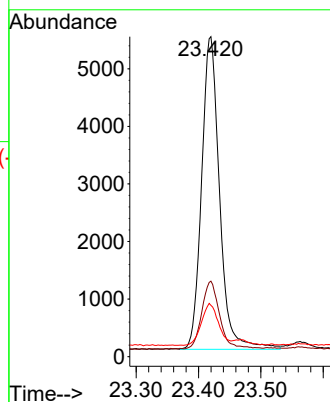
BNA_N

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

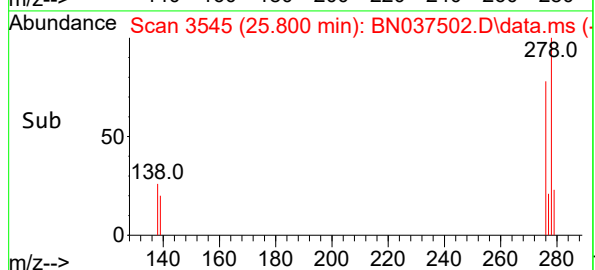
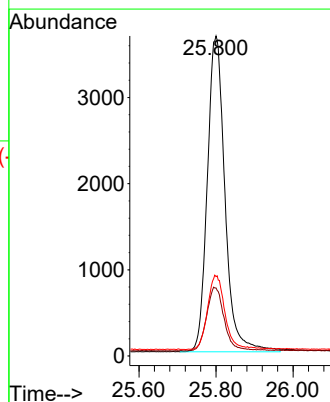
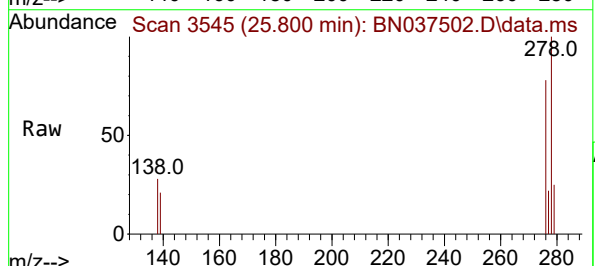
RT: 25.800 min Scan# 3545

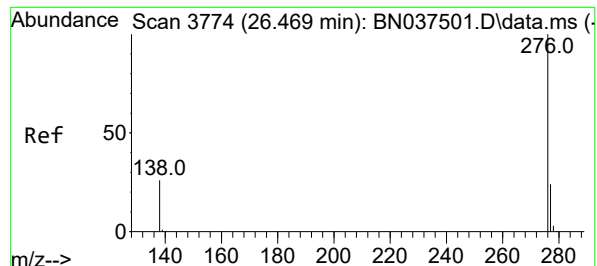
Delta R.T. 0.000 min

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

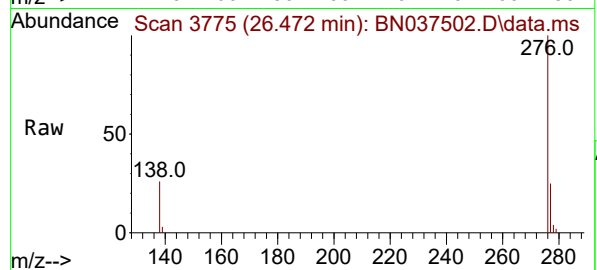
Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



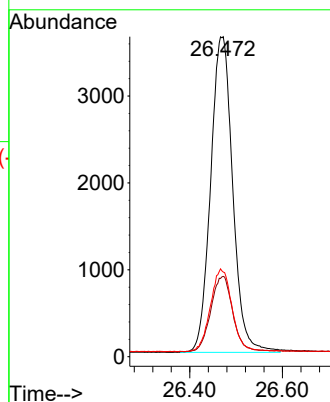
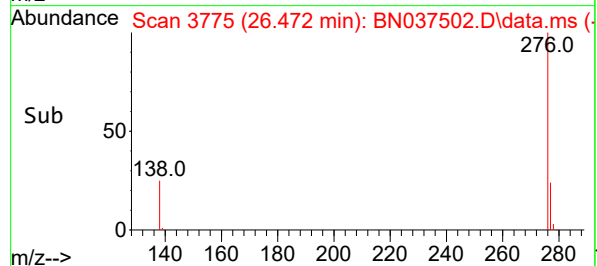
Tgt Ion:276 Resp: 12022

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)

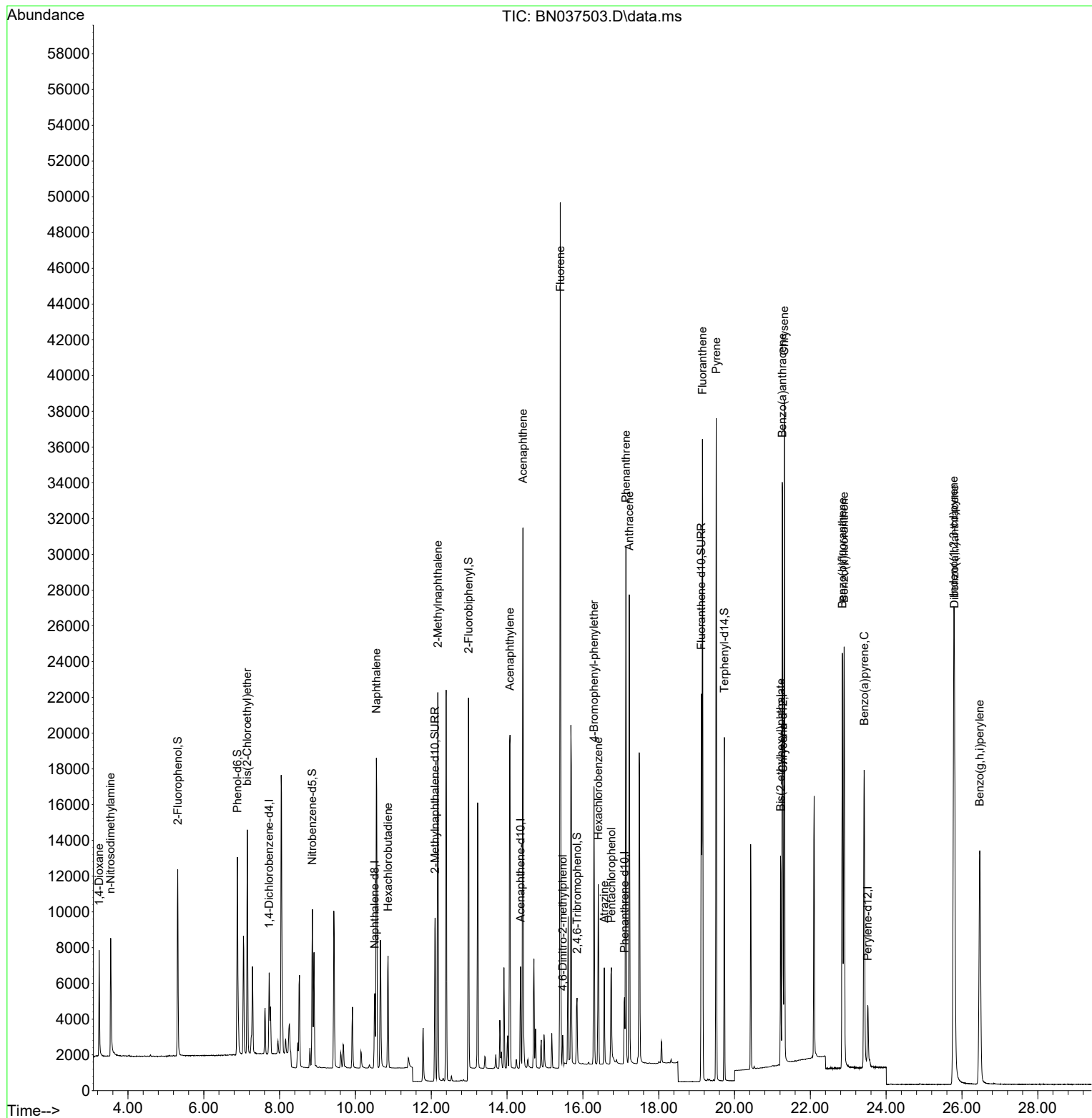
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2129	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5384	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3005	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	5542	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4955	0.400	ng	0.00
35) Perylene-d12	23.516	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						Qvalue
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

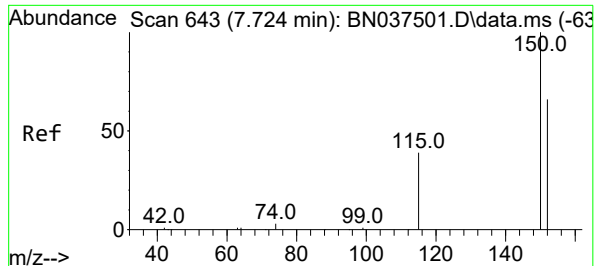
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

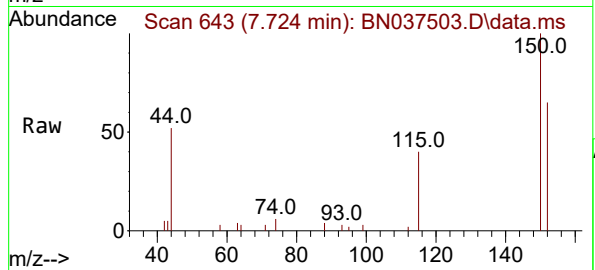
Quant Time: Jul 15 17:27:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 16:45:15 2025
Response via : Initial Calibration



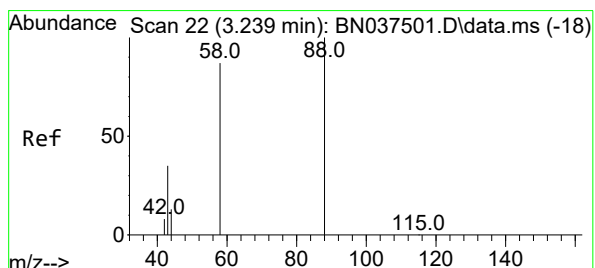
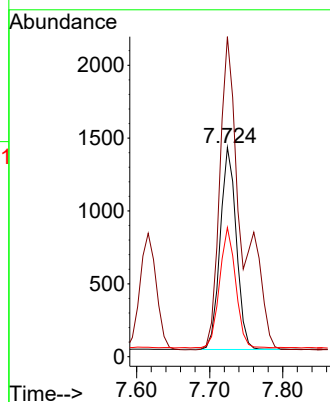
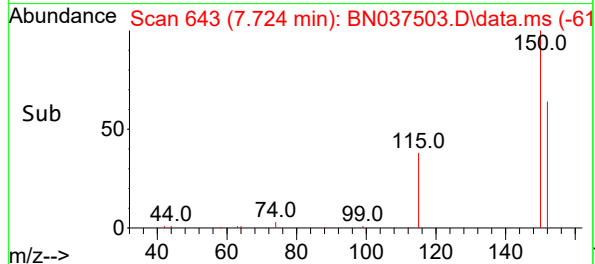


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

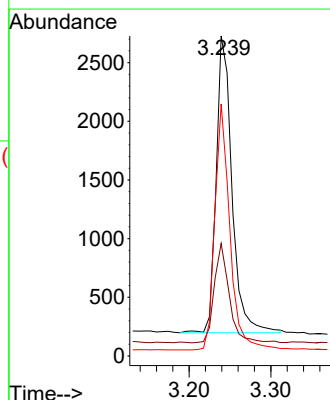
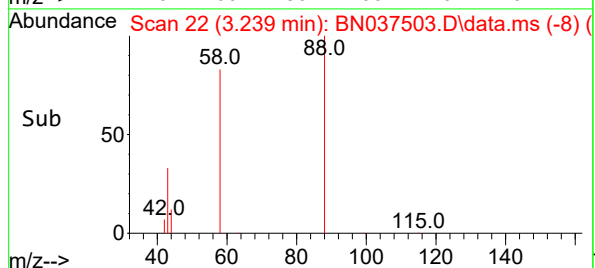
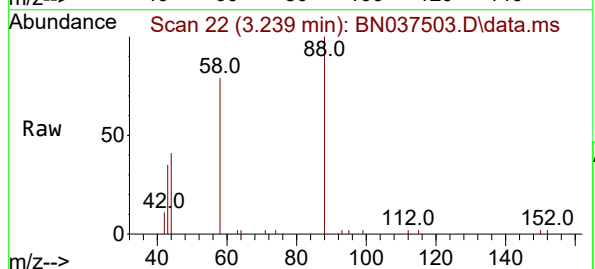


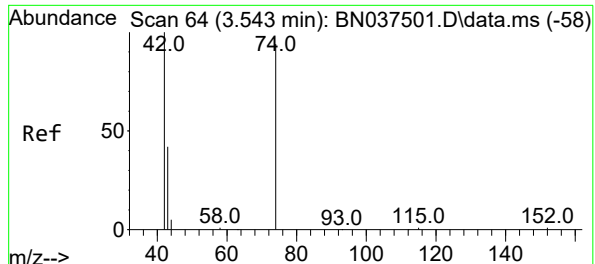
Tgt Ion:152 Resp: 2129
Ion Ratio Lower Upper
152 100
150 152.9 119.8 179.8
115 61.7 49.1 73.7



#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

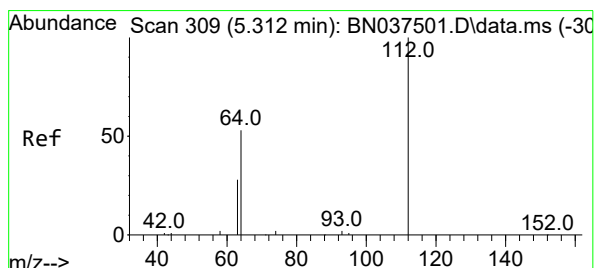
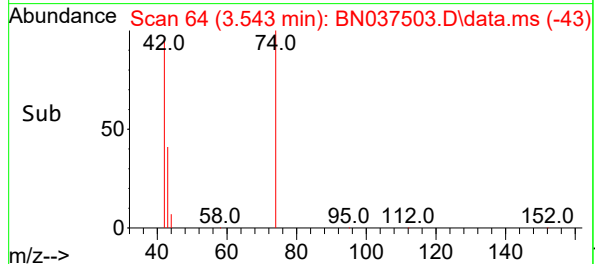
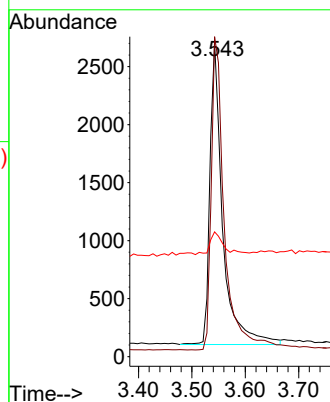
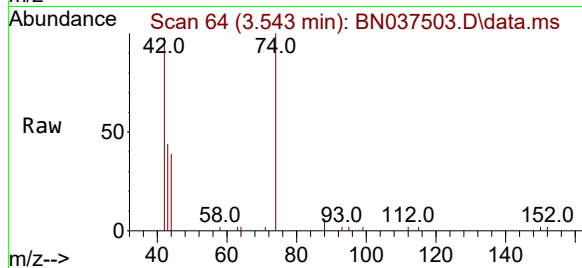




#3
n-Nitrosodimethylamine
Concen: 1.681 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

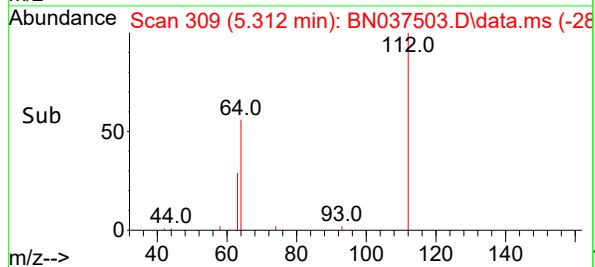
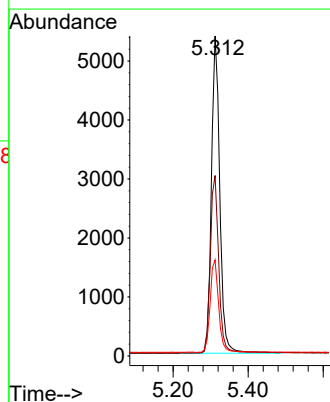
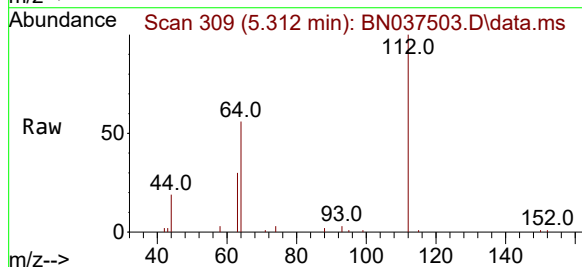
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

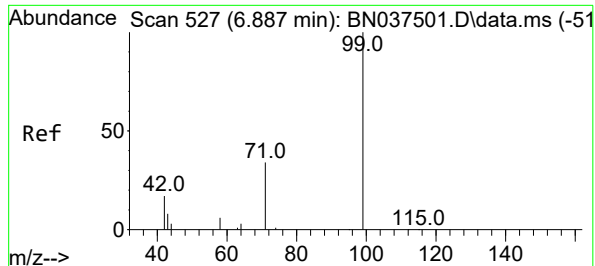
Tgt Ion: 42 Resp: 4327
Ion Ratio Lower Upper
42 100
74 106.7 91.8 137.6
44 8.3 15.0 22.6#



#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

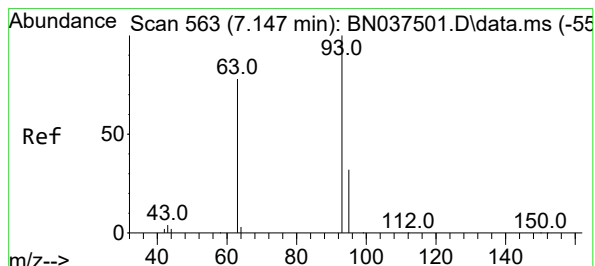
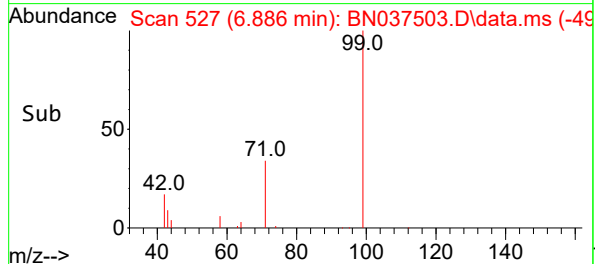
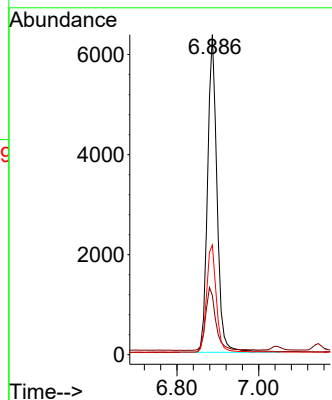
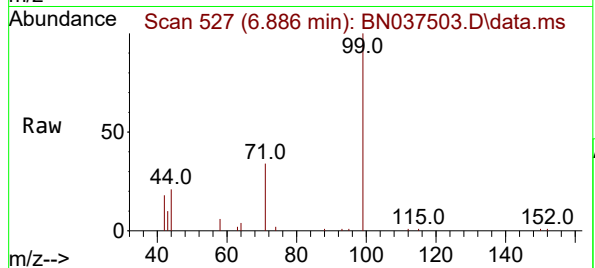




#5
Phenol-d6
Concen: 1.548 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

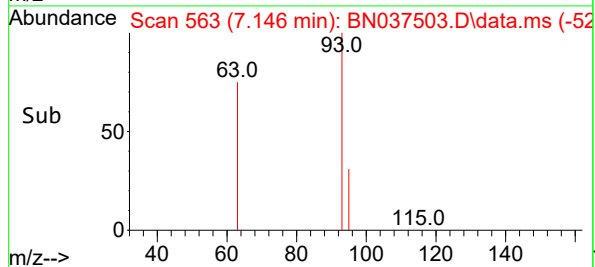
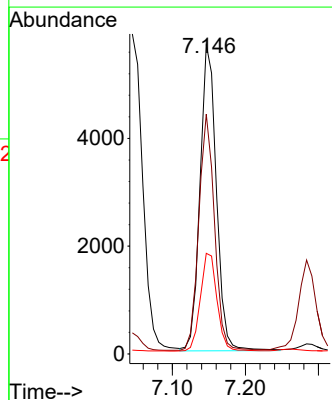
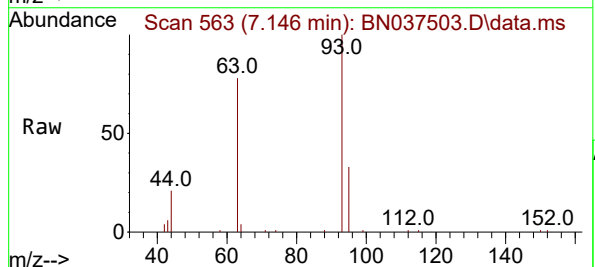
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

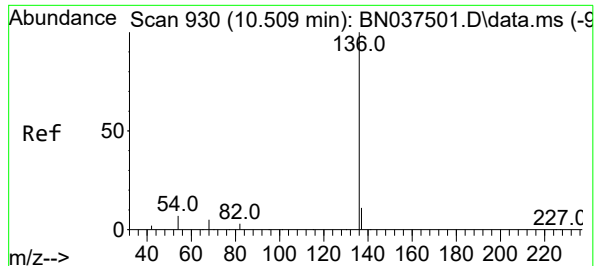
Tgt Ion: 99 Resp: 10225
Ion Ratio Lower Upper
99 100
42 21.6 17.1 25.7
71 34.7 27.8 41.8



#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

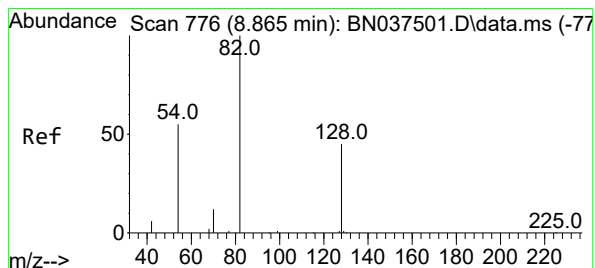
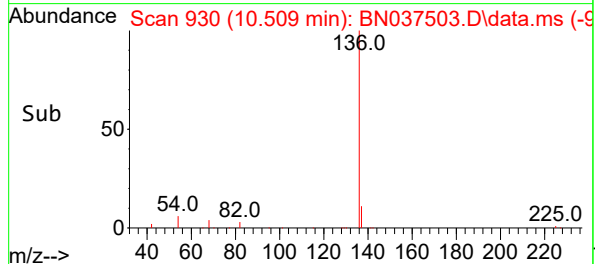
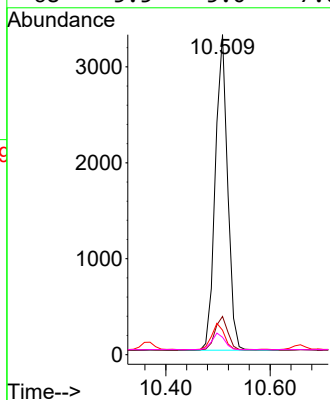
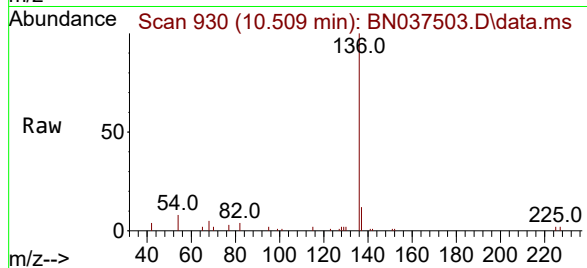




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

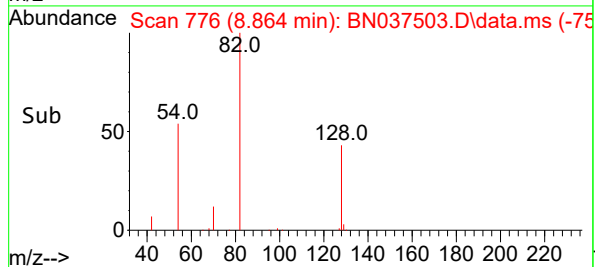
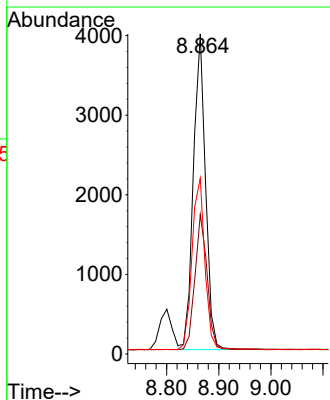
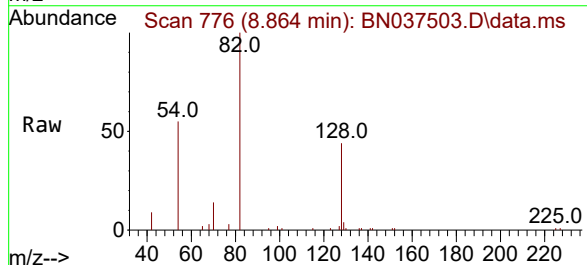
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

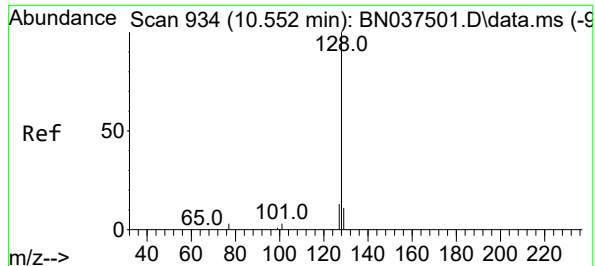
Tgt Ion	136	137	54	68
Resp:	5384			
Ion Ratio	100	11.9	7.7	5.5
Lower		9.8	6.6	5.0
Upper		14.8	9.8	7.6



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

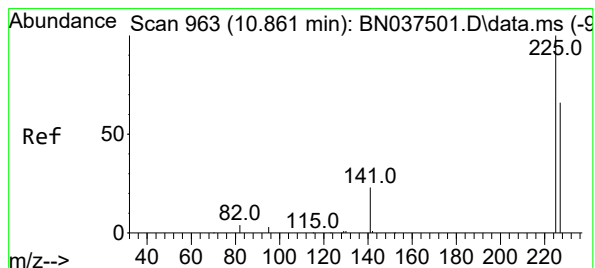
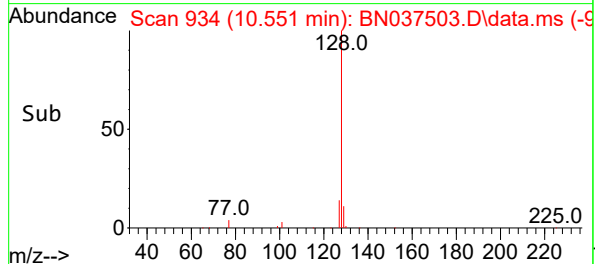
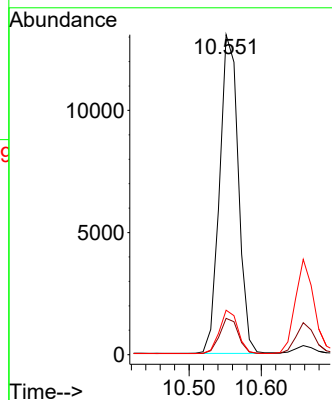
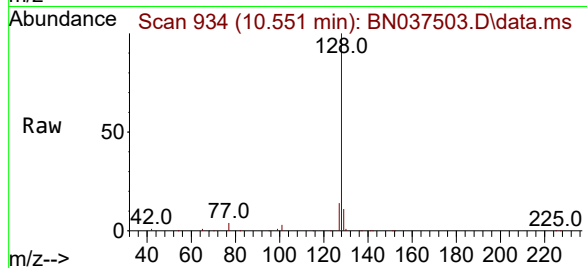




#9
Naphthalene
Concen: 1.636 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

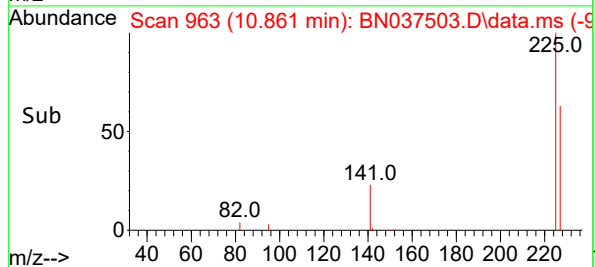
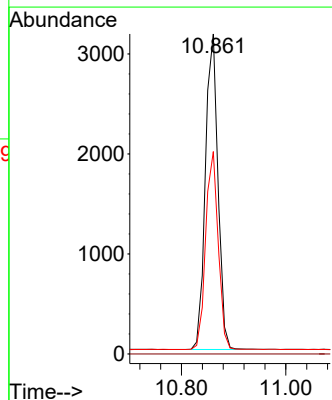
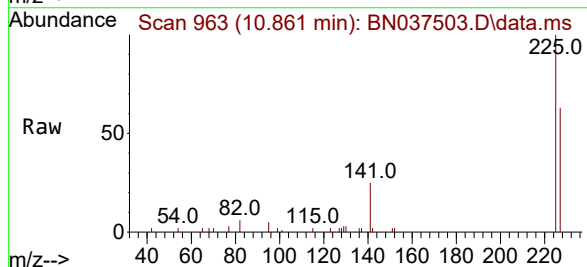
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

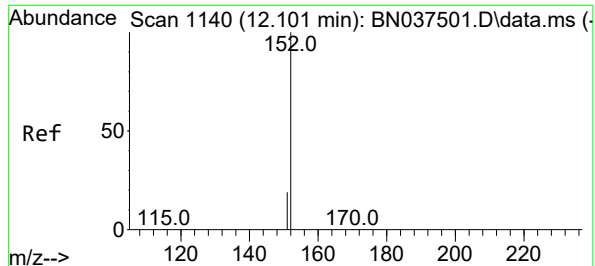
Tgt Ion:128 Resp: 23495
Ion Ratio Lower Upper
128 100
129 11.3 9.7 14.5
127 13.9 11.5 17.3



#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

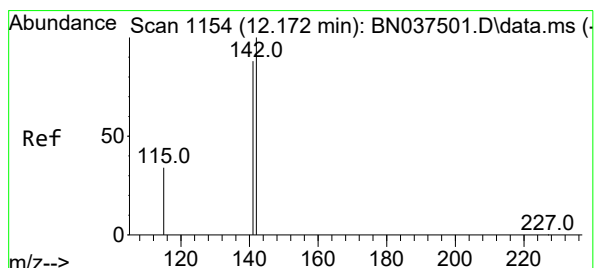
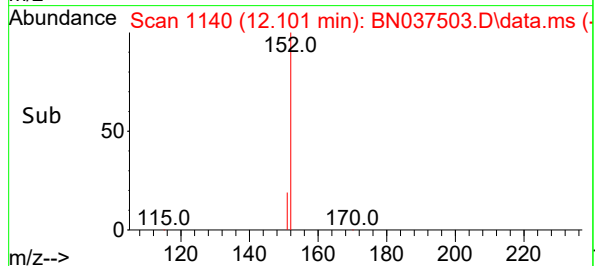
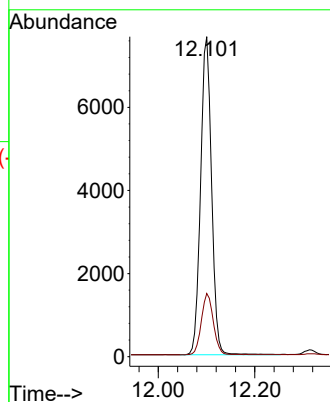
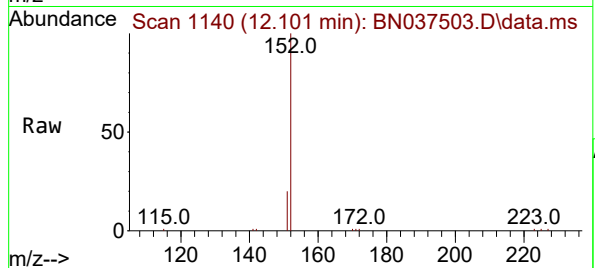




#11
2-Methylnaphthalene-d10
Concen: 1.566 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

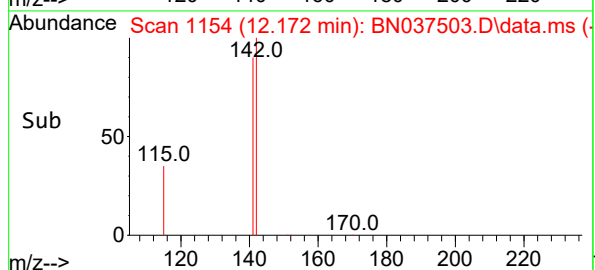
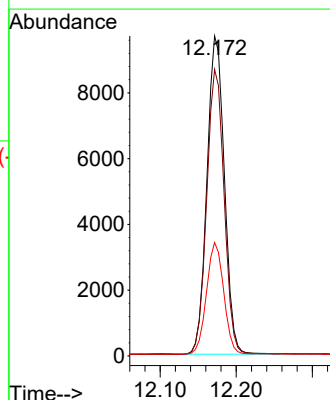
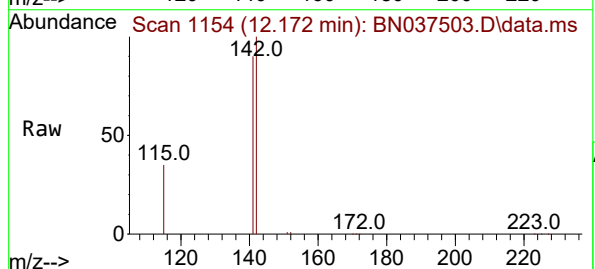
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

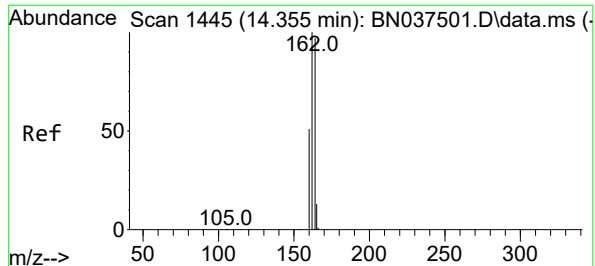
Tgt Ion:152 Resp: 12096
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#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

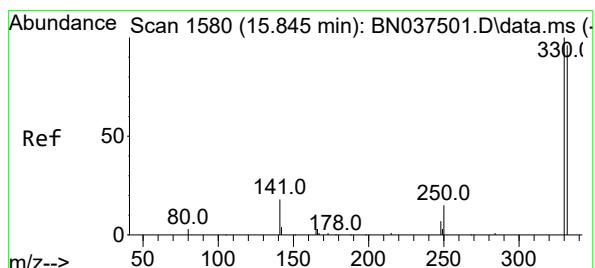
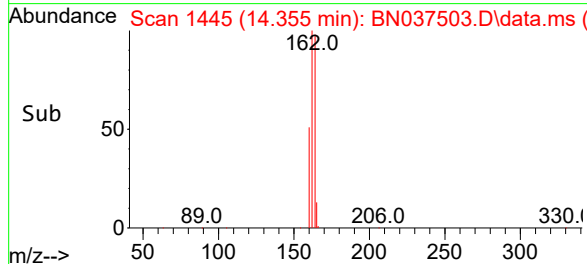
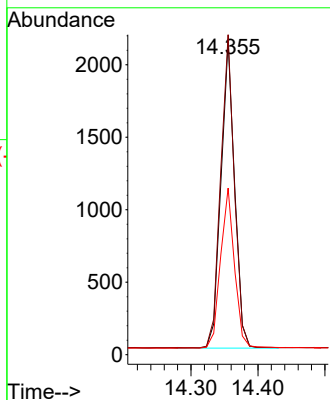
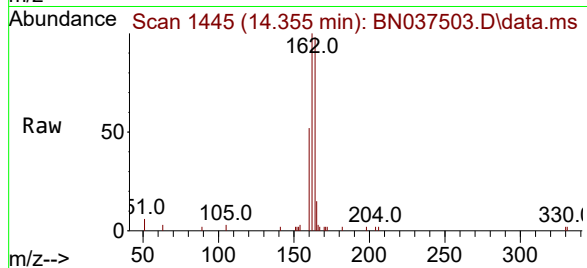




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

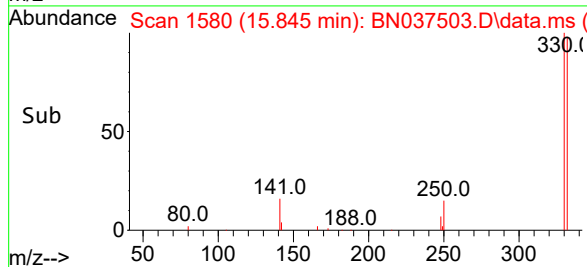
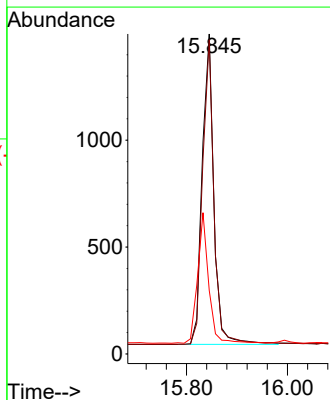
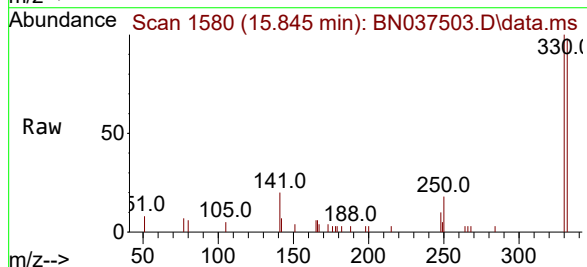
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

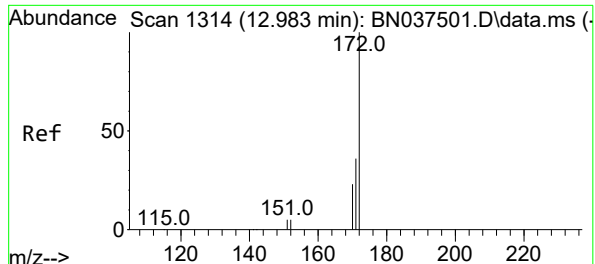
Tgt Ion:164 Resp: 3005
Ion Ratio Lower Upper
164 100
162 102.0 82.0 123.0
160 53.1 42.4 63.6



#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

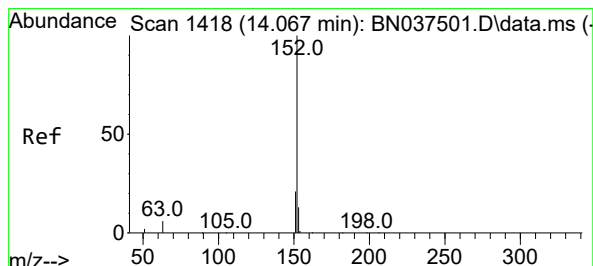
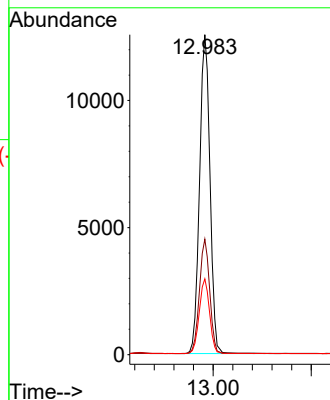
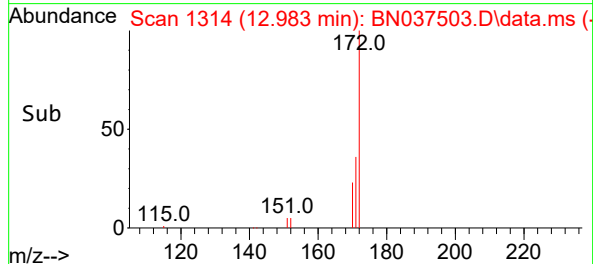
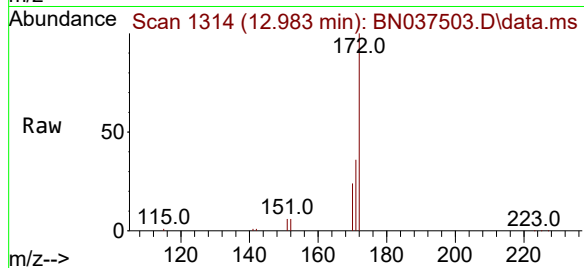




#15
2-Fluorobiphenyl
Concen: 1.751 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

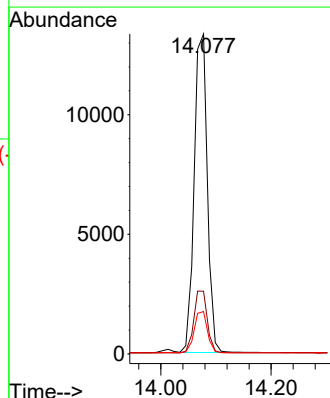
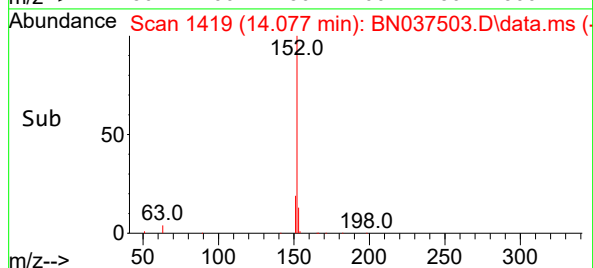
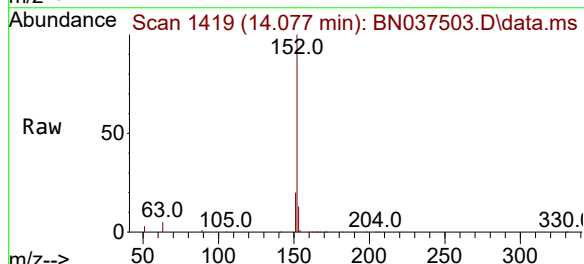
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

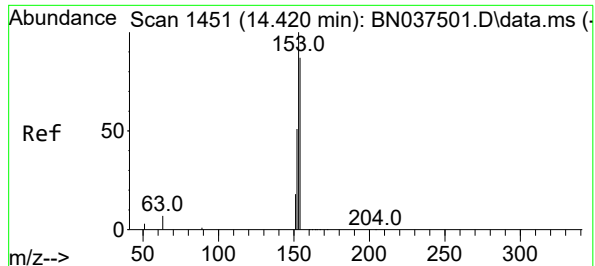
Tgt Ion:172 Resp: 27369
Ion Ratio Lower Upper
172 100
171 36.1 29.4 44.2
170 23.7 19.4 29.0



#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

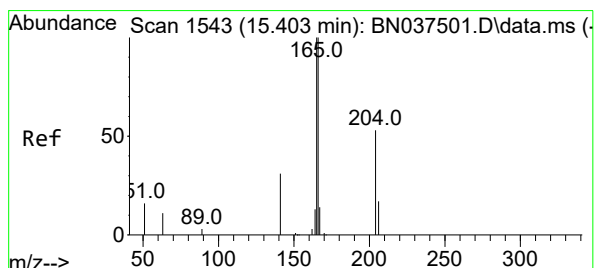
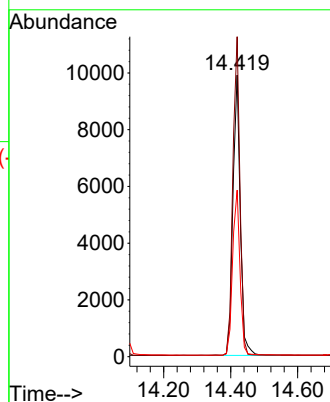
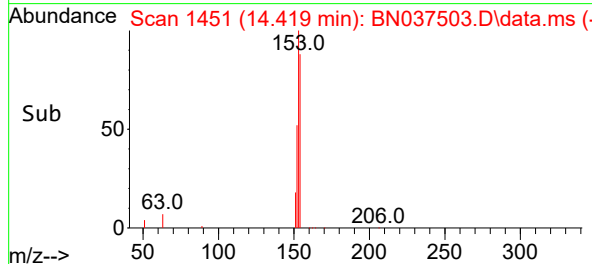
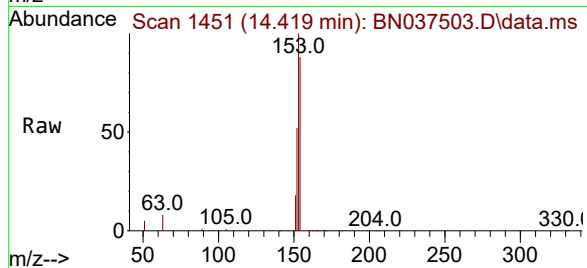




#17
Acenaphthene
Concen: 1.625 ng
RT: 14.419 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

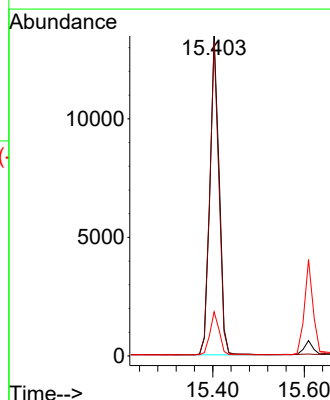
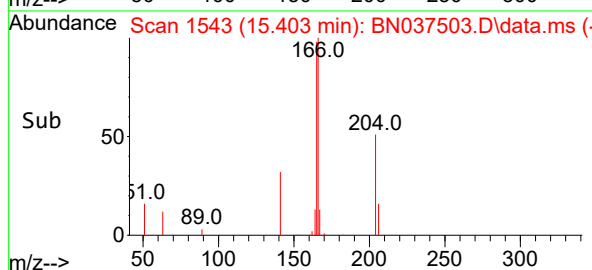
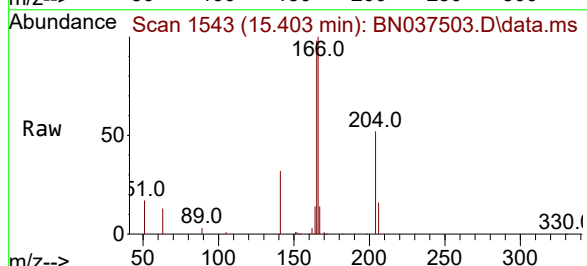
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

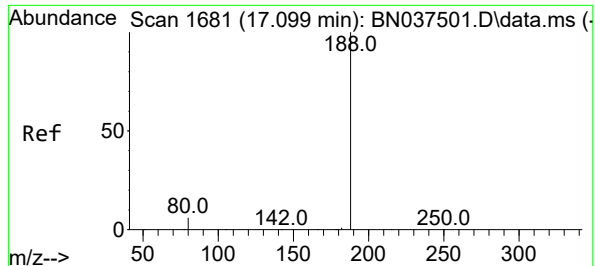
Tgt Ion:154 Resp: 14877
Ion Ratio Lower Upper
154 100
153 110.6 89.2 133.8
152 59.5 48.0 72.0



#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

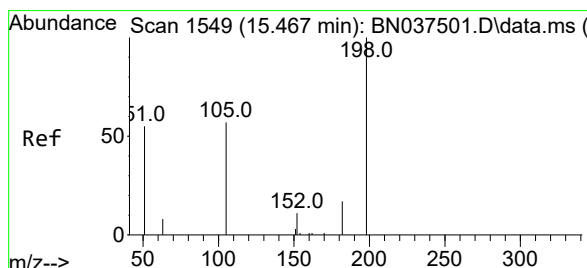
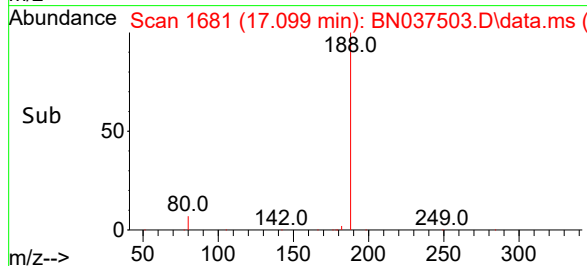
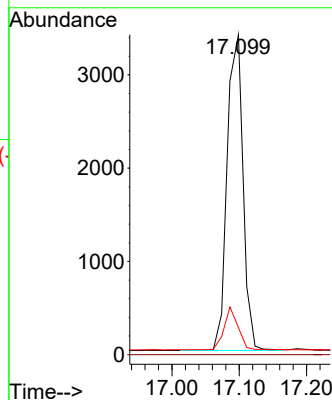
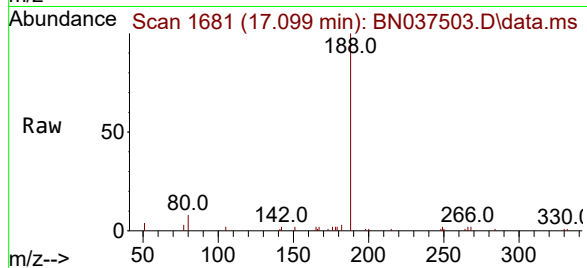
Tgt Ion:188 Resp: 5542

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

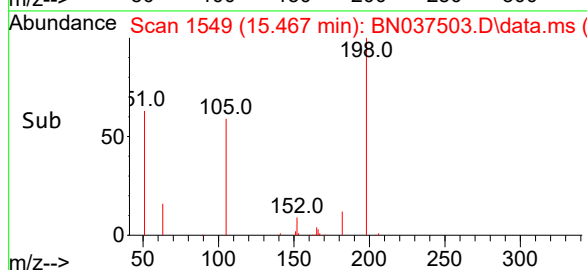
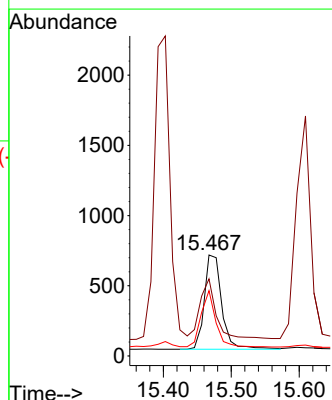
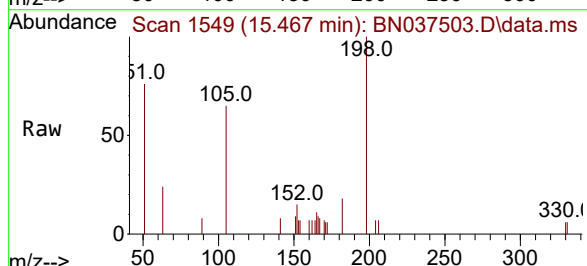
Tgt Ion:198 Resp: 1268

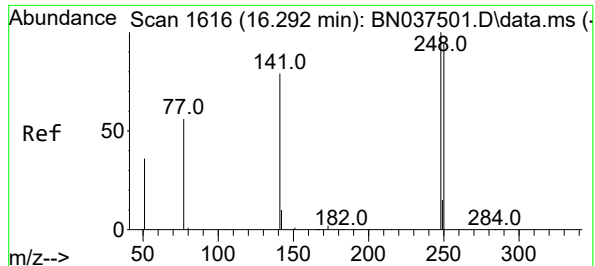
Ion Ratio Lower Upper

198 100

51 76.5 88.5 132.7#

105 64.7 61.2 91.8

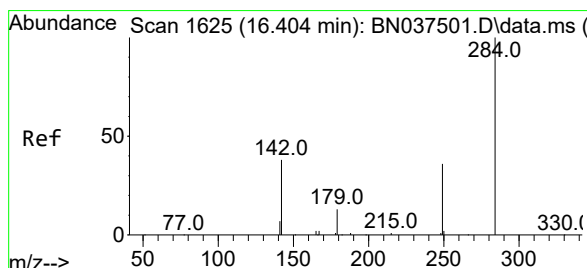
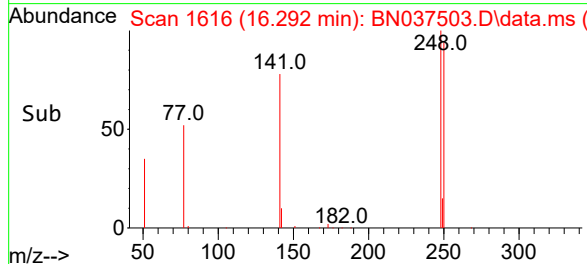
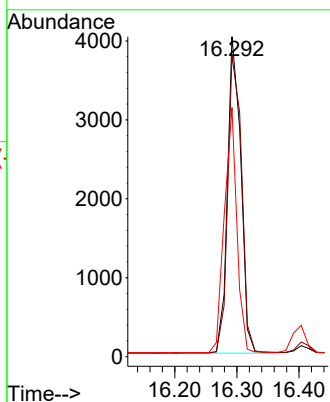
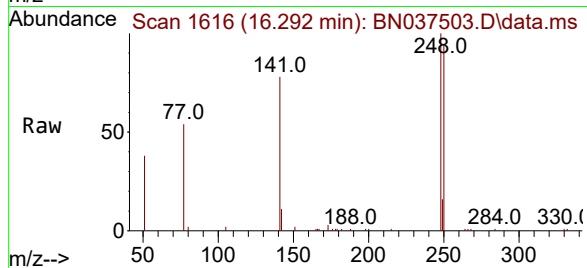




#21
4-Bromophenyl-phenylether
Concen: 1.674 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

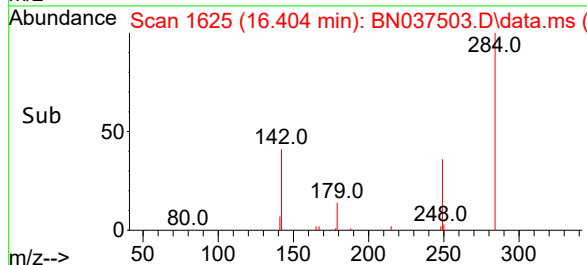
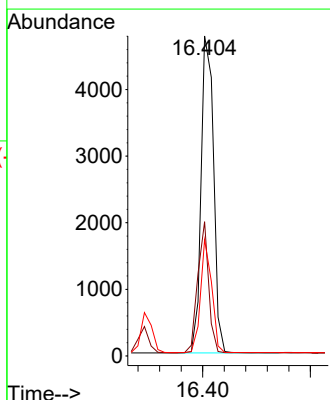
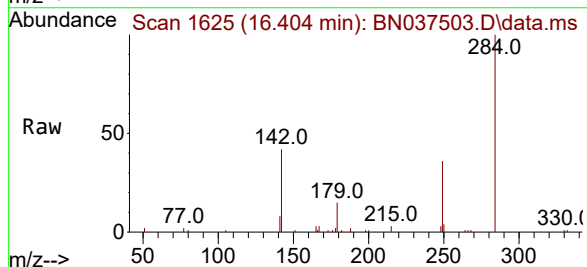
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

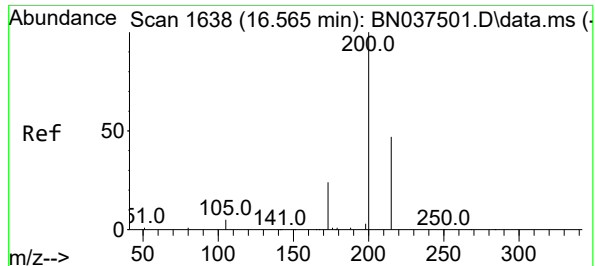
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.1	76.2	114.2
141	77.8	63.9	95.9



#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

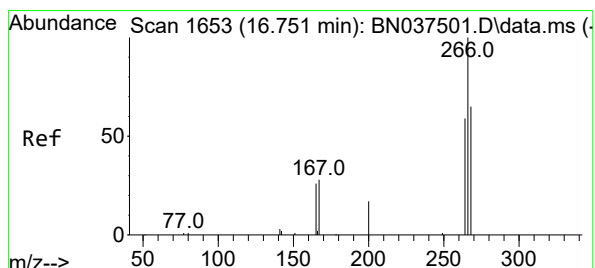
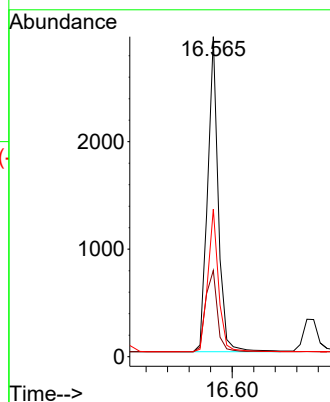
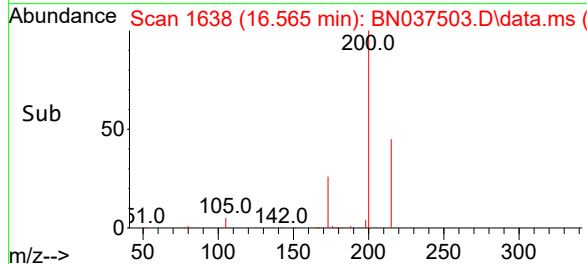
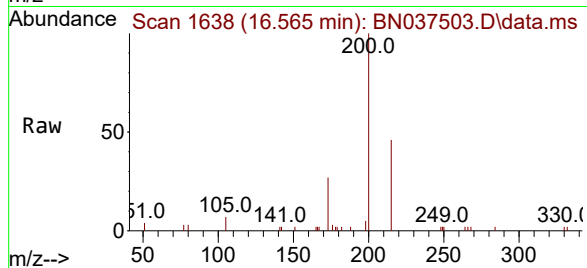




#23
Atrazine
Concen: 1.621 ng
RT: 16.565 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

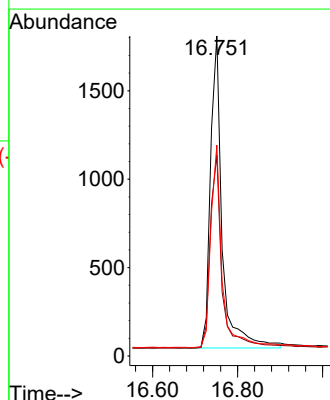
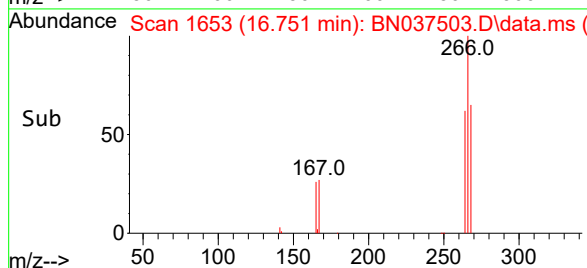
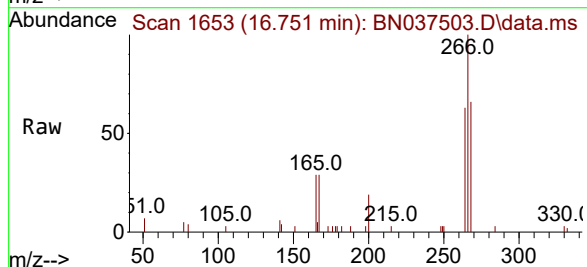
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

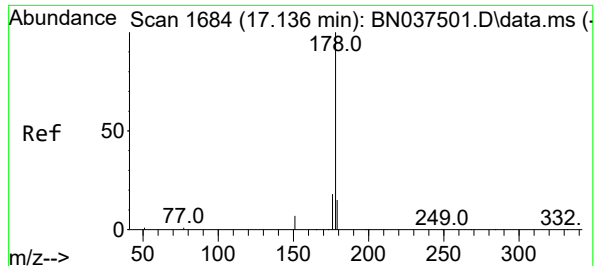
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.0	23.2	34.8
215	46.1	40.2	60.4



#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	Ratio	Lower	Upper
266	100		
264	62.6	49.3	73.9
268	64.1	51.6	77.4

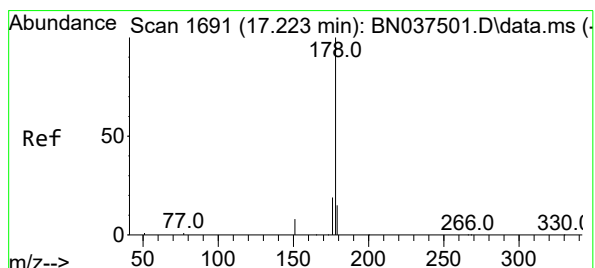
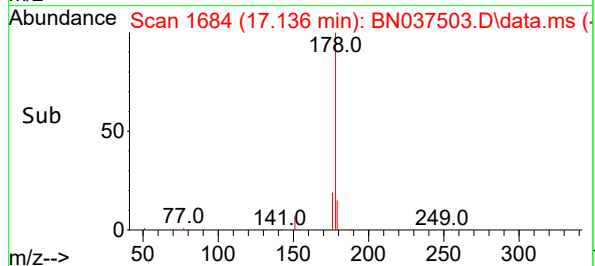
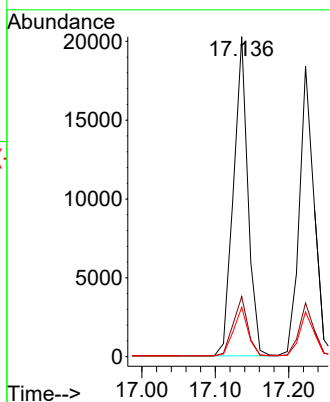
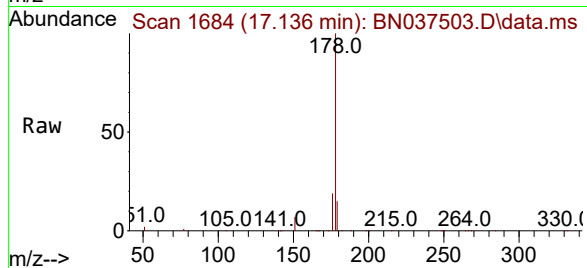




#25
Phenanthrene
Concen: 1.666 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

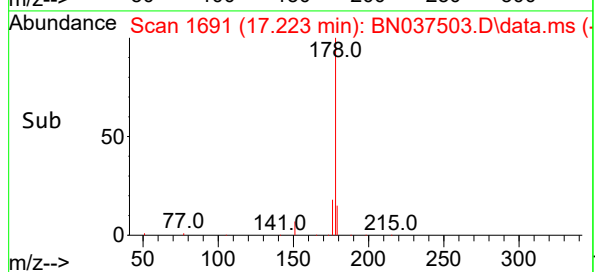
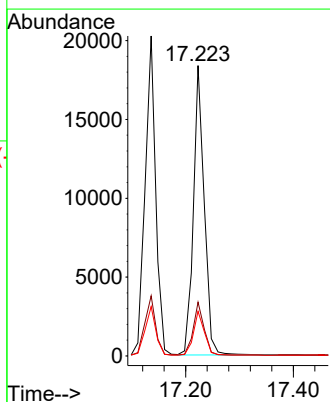
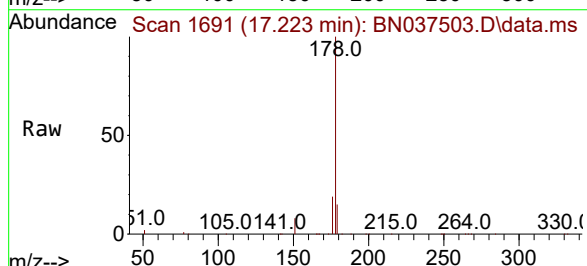
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

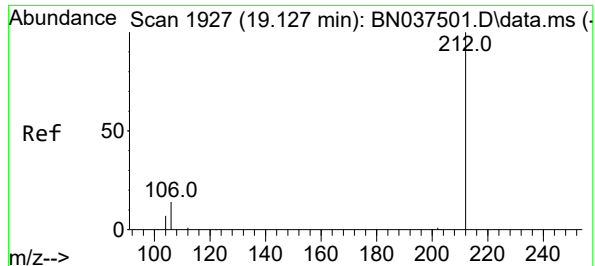
Tgt Ion:178 Resp: 27669
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.2 18.2



#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

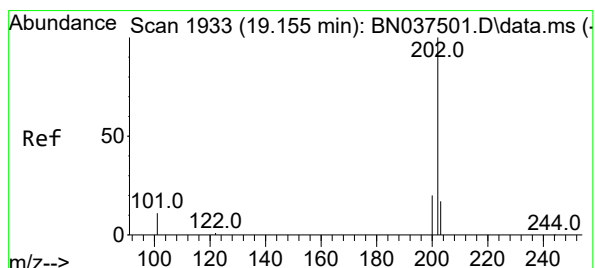
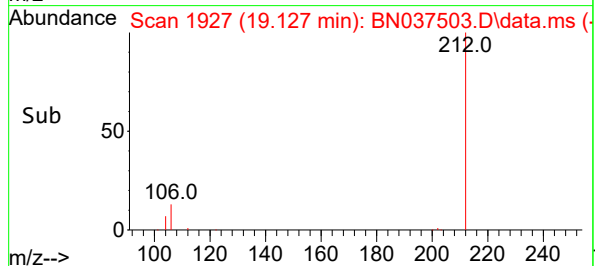
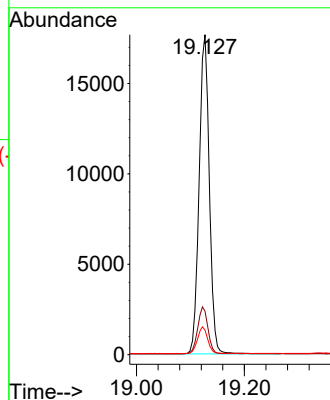
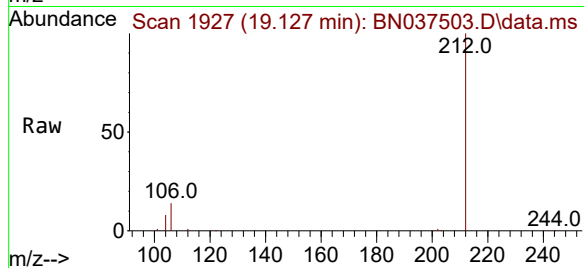
Tgt Ion:212 Resp: 23071

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

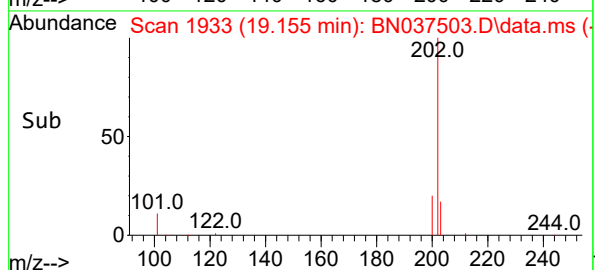
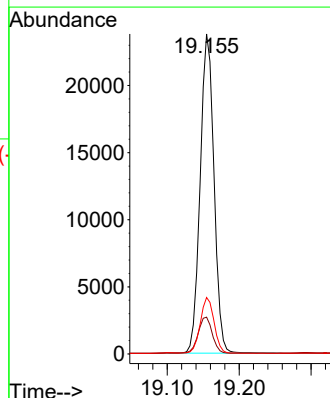
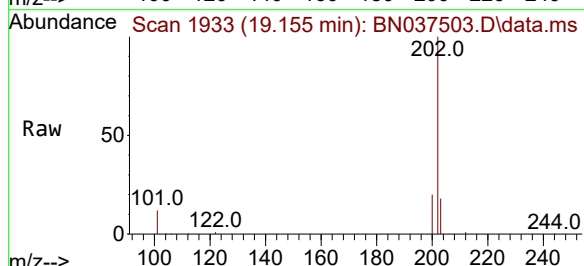
Tgt Ion:202 Resp: 31674

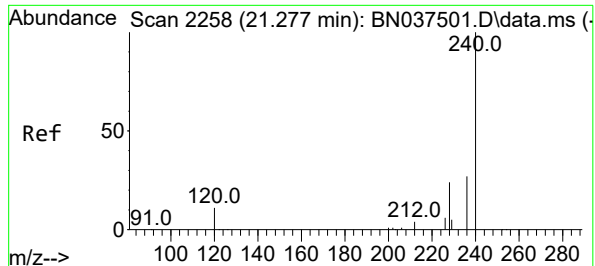
Ion Ratio Lower Upper

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

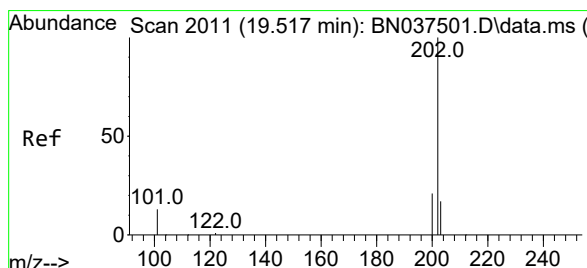
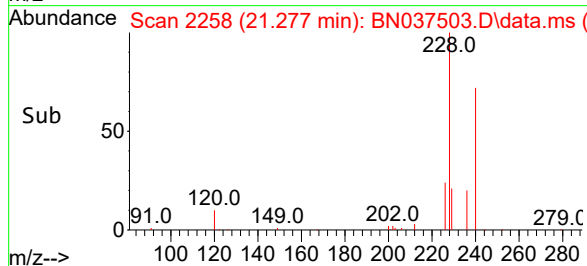
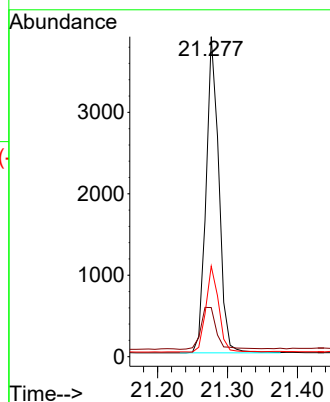
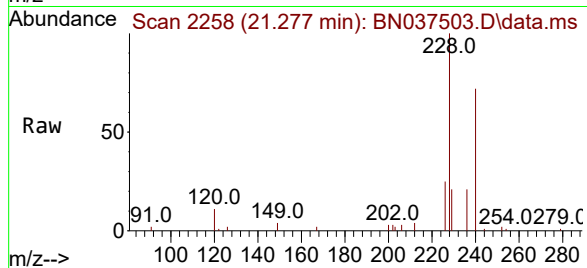
Tgt Ion:240 Resp: 4955

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

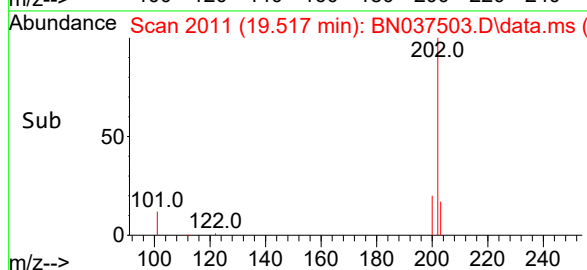
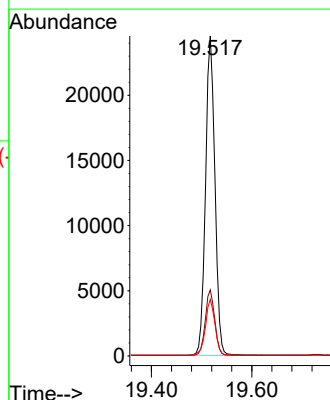
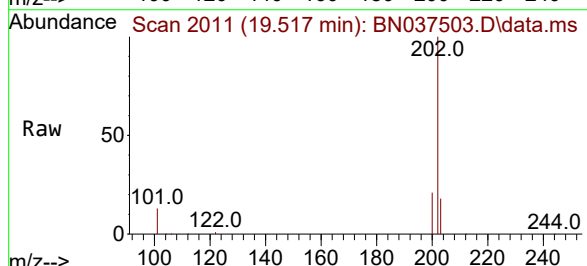
Tgt Ion:202 Resp: 31858

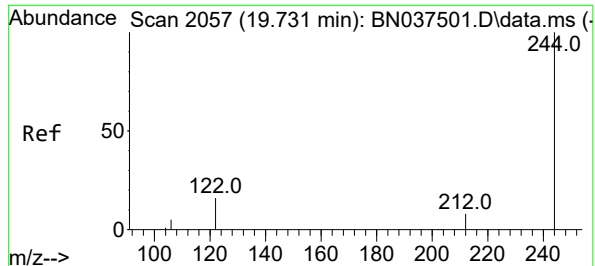
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.7 14.3 21.5

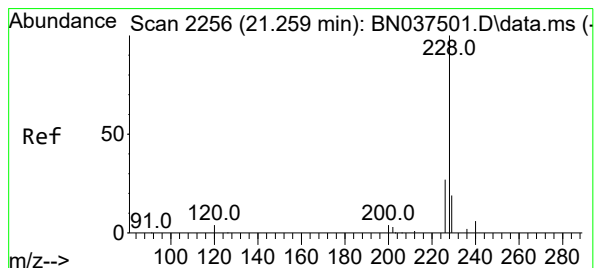
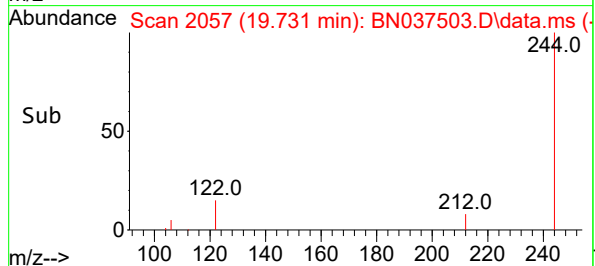
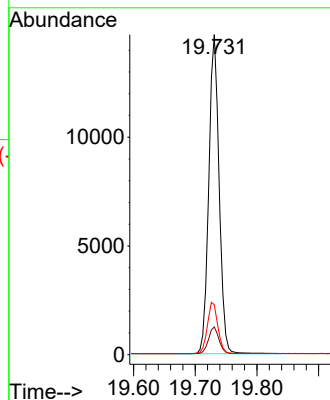
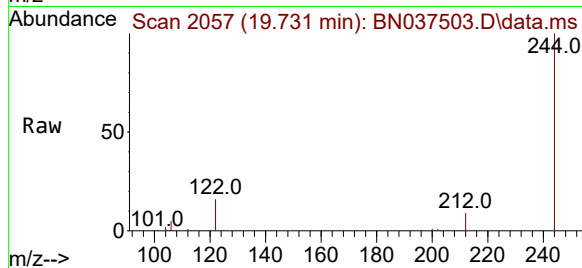




#31
Terphenyl-d14
Concen: 1.591 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

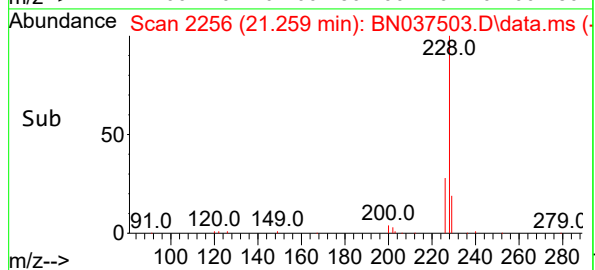
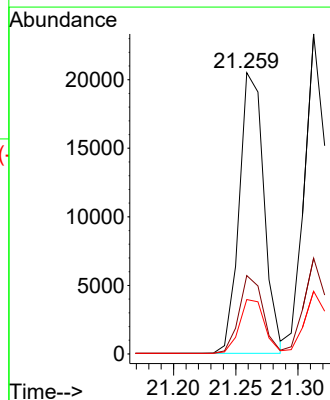
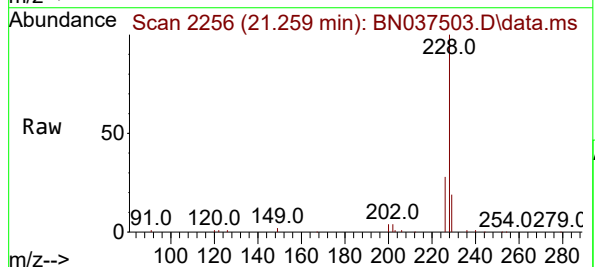
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

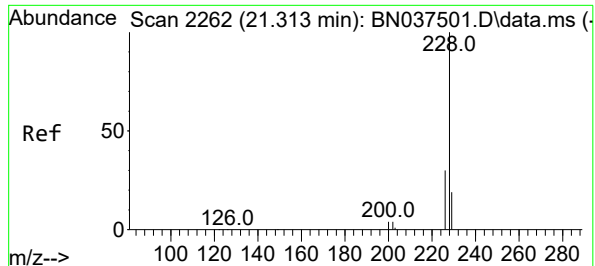
Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.6	7.4	11.2
122	15.6	13.6	20.4



#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	Ratio	Lower	Upper
228	100		
226	27.9	21.9	32.9
229	19.3	15.8	23.8

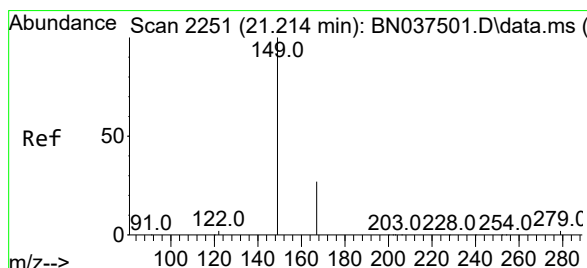
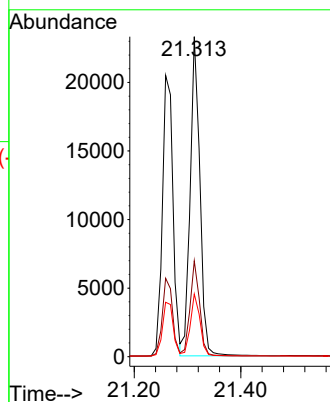
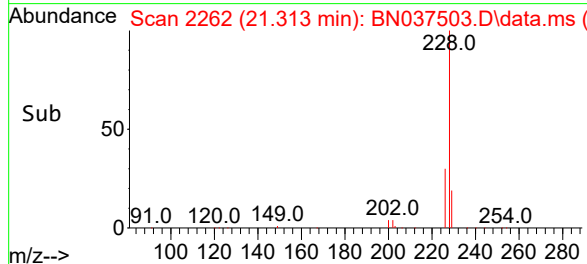
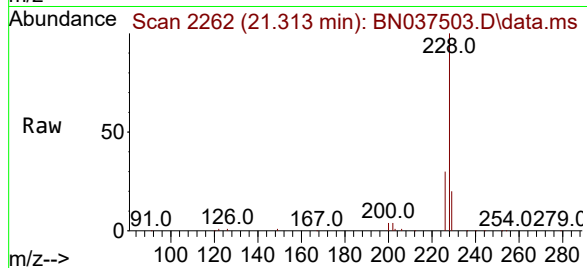




#33
Chrysene
Concen: 1.632 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

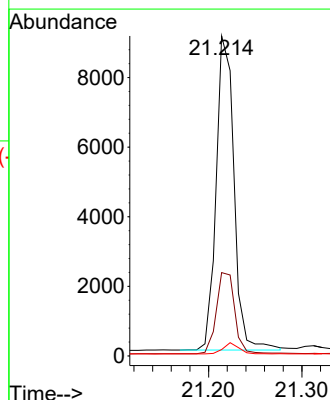
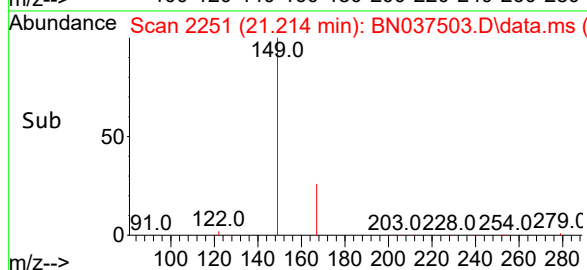
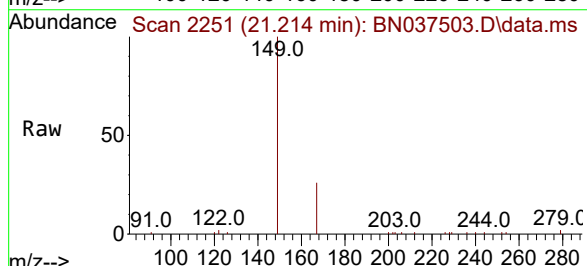
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

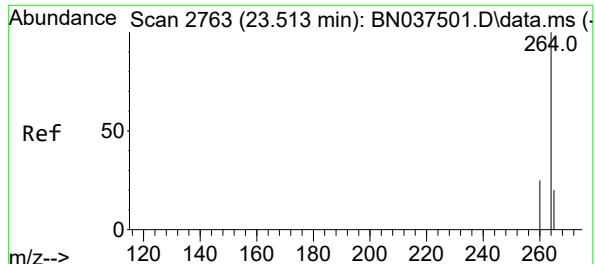
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.2	36.4
229	19.6	16.1	24.1



#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	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

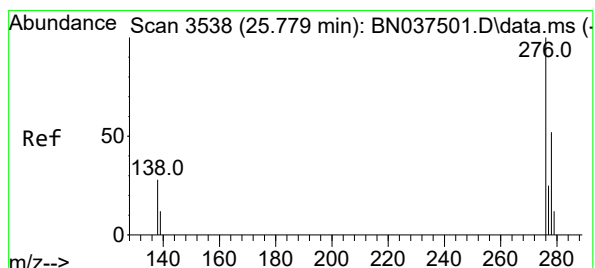
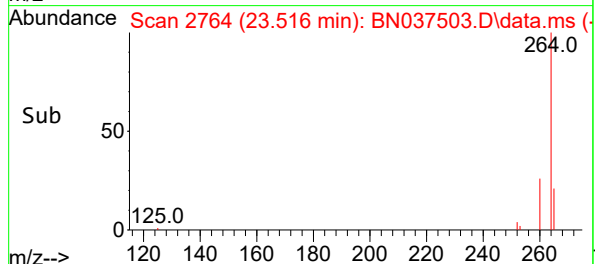
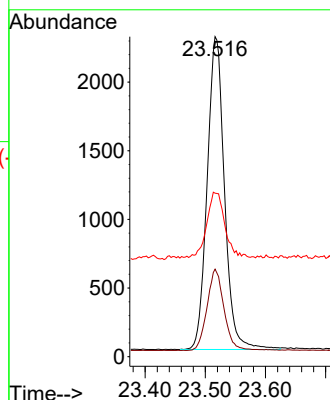
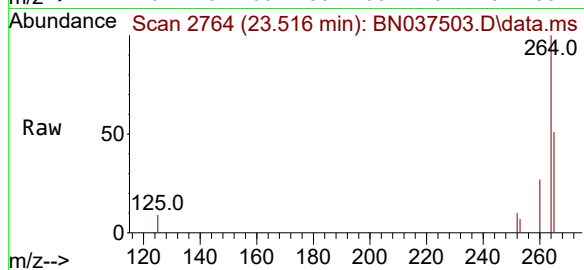
Tgt Ion:264 Resp: 4551

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

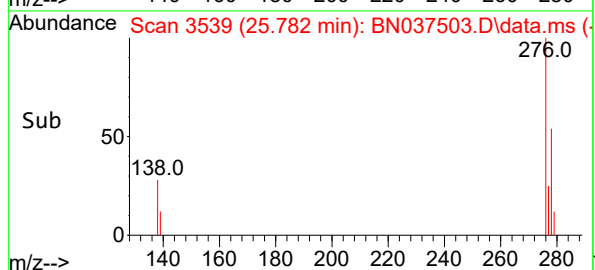
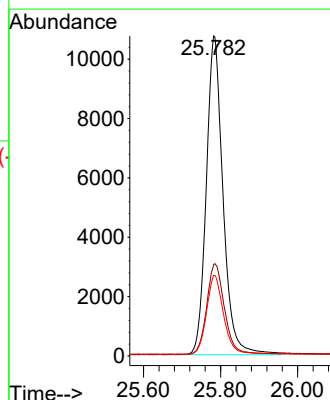
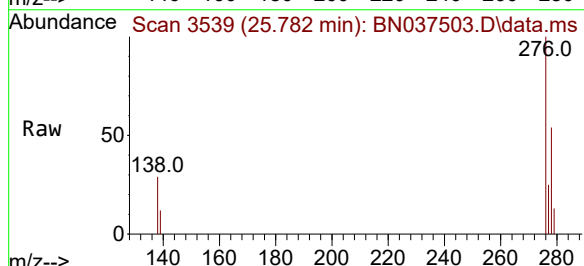
Tgt Ion:276 Resp: 32244

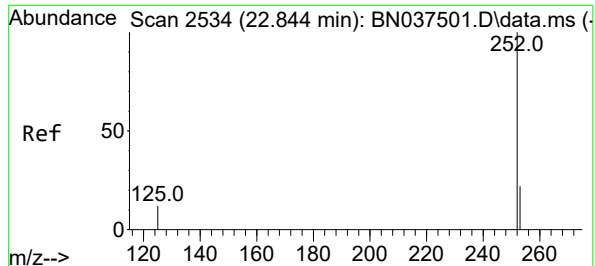
Ion Ratio Lower Upper

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

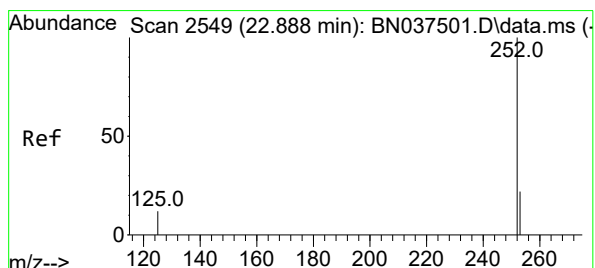
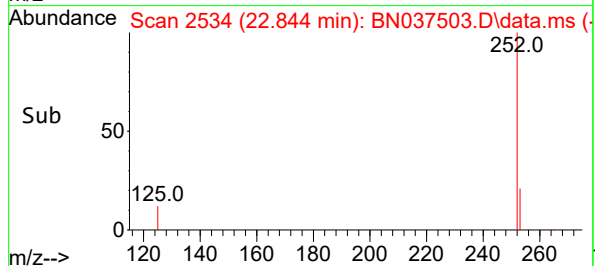
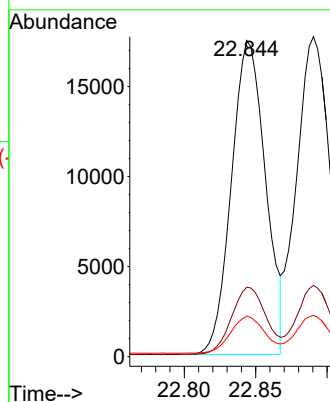
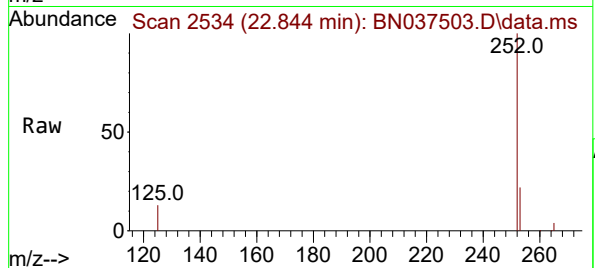
Tgt Ion:252 Resp: 28933

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

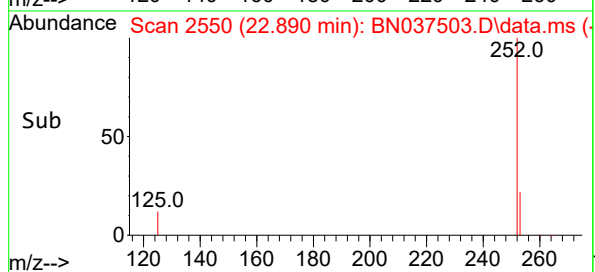
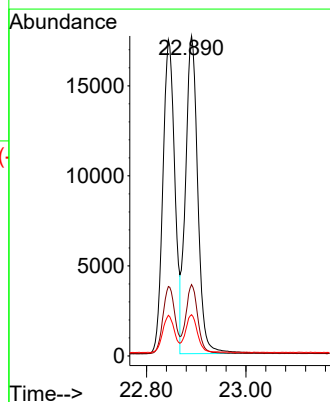
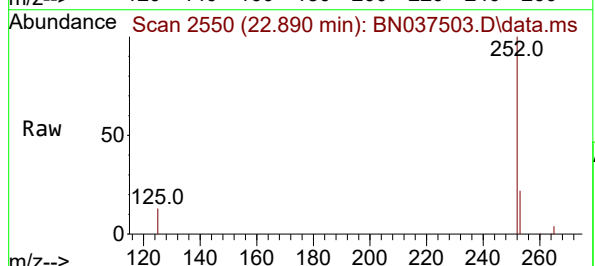
Tgt Ion:252 Resp: 30228

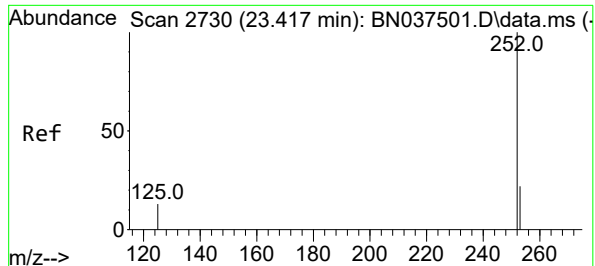
Ion Ratio Lower Upper

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

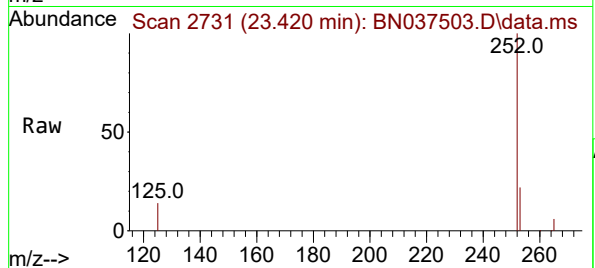
Acq: 15 Jul 2025 15:01

Instrument :

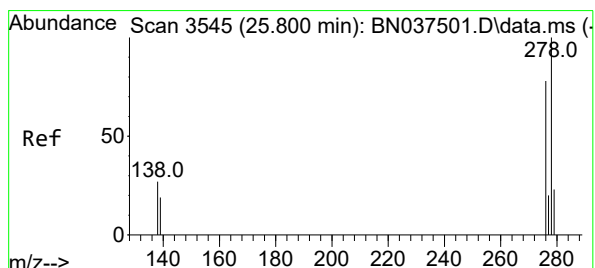
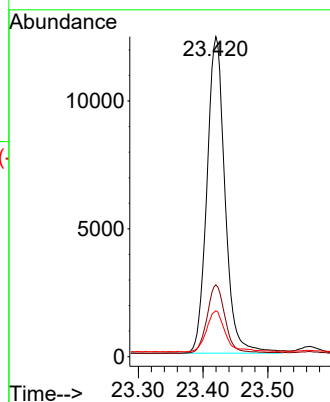
BNA_N

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

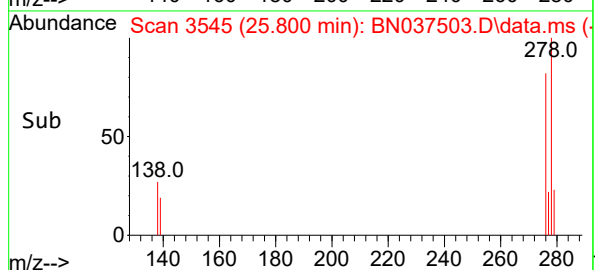
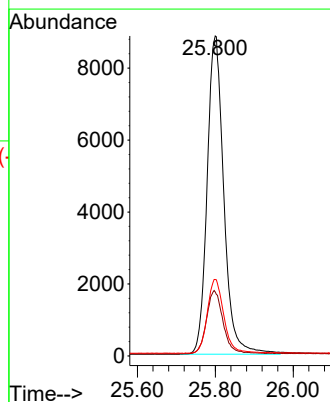
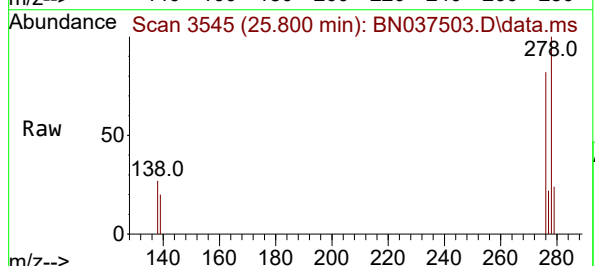
RT: 25.800 min Scan# 3545

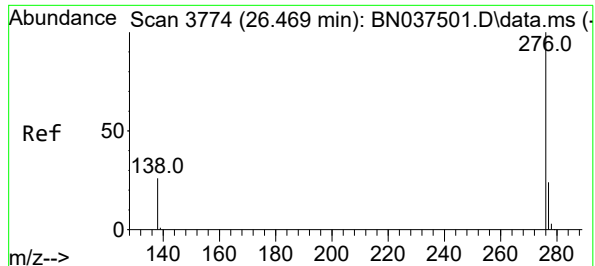
Delta R.T. -0.000 min

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

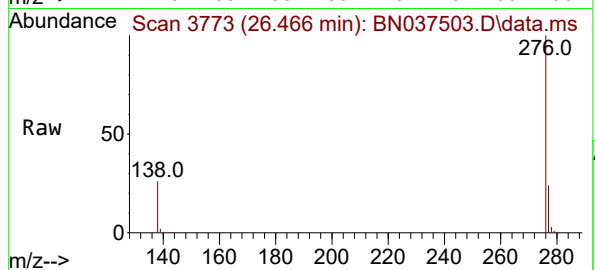
Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



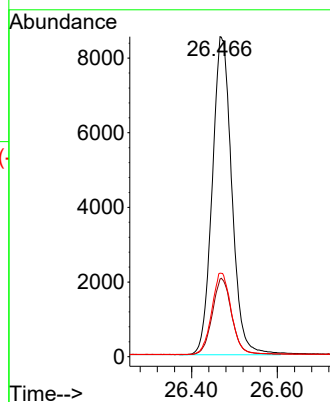
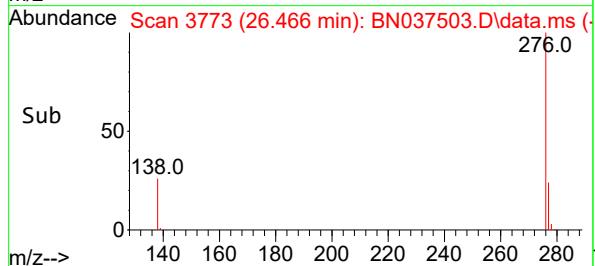
Tgt Ion:276 Resp: 26971

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)

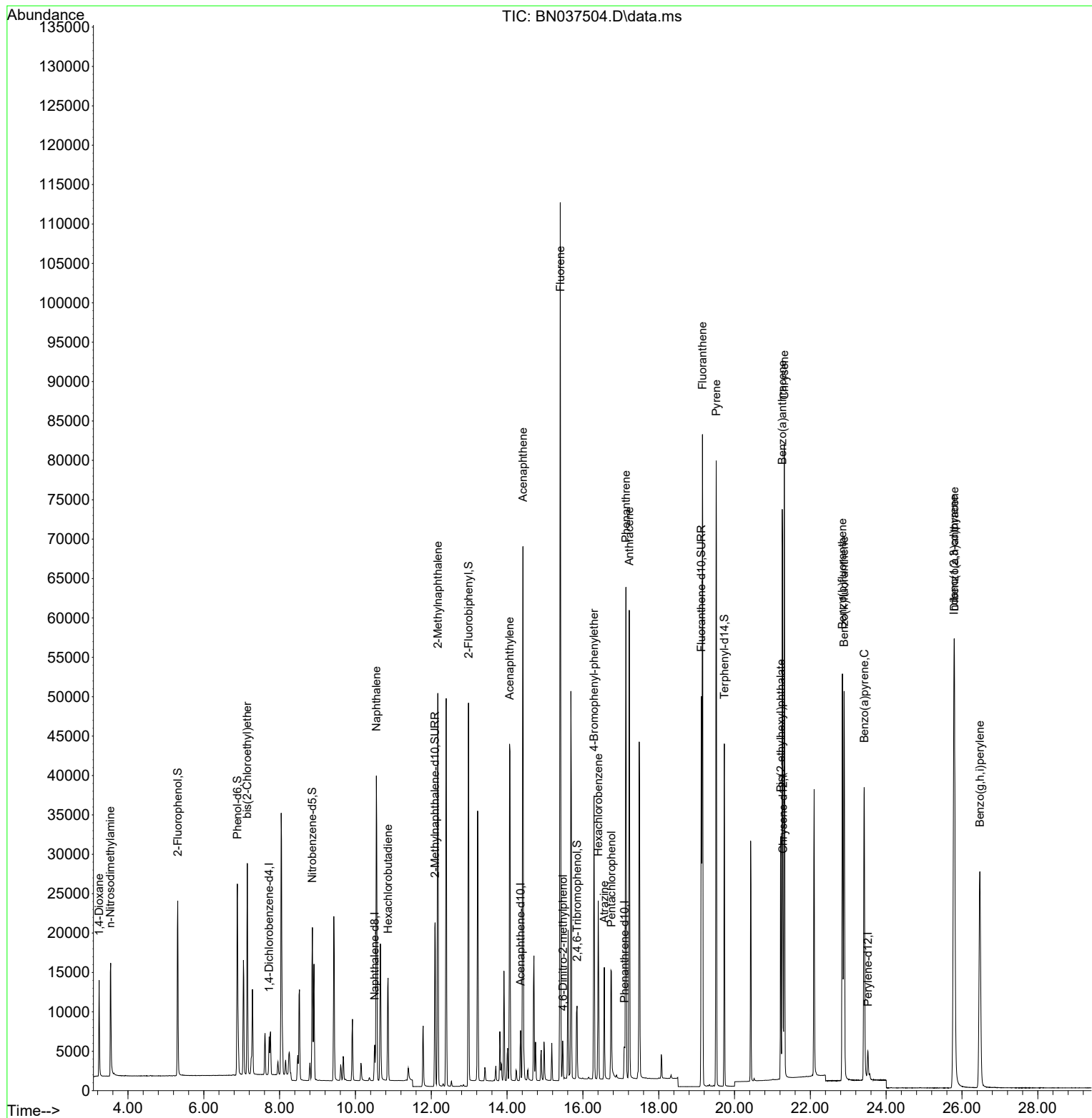
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2243	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5878	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3382	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6204	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5331	0.400	ng	0.00
35) Perylene-d12	23.519	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						Qvalue
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

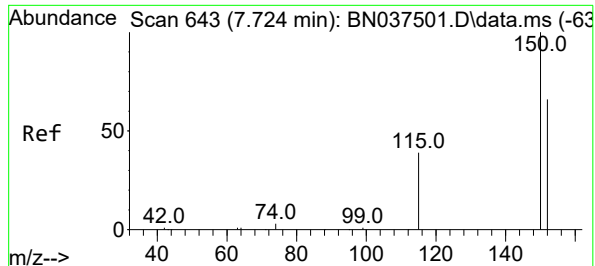
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

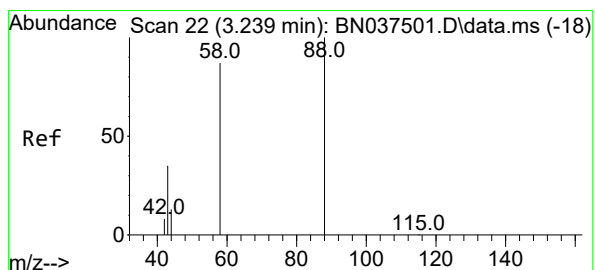
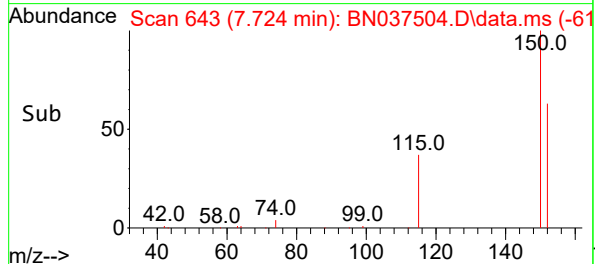
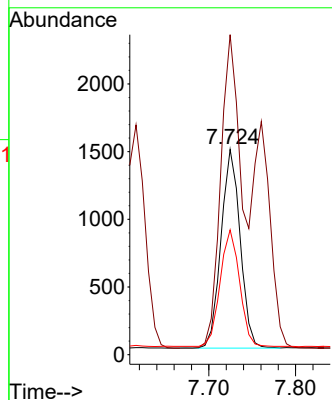
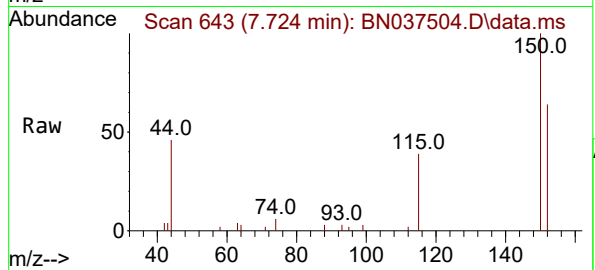




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

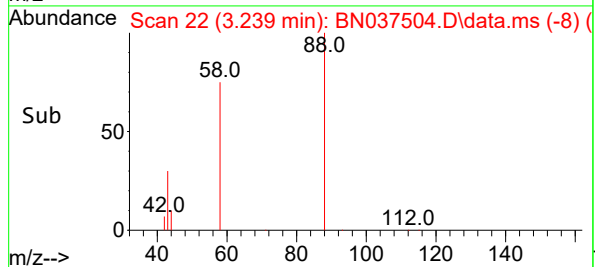
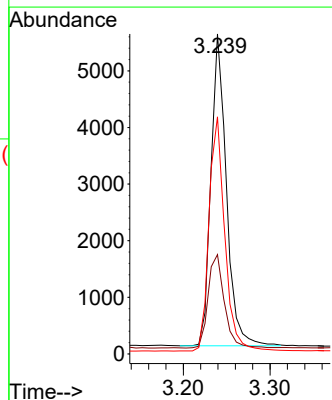
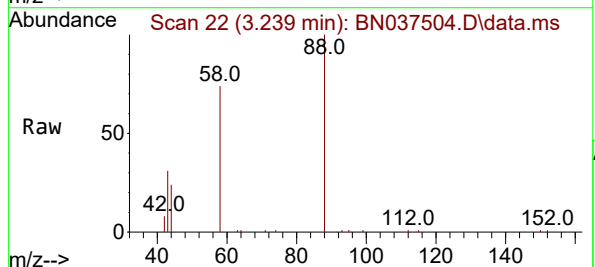
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

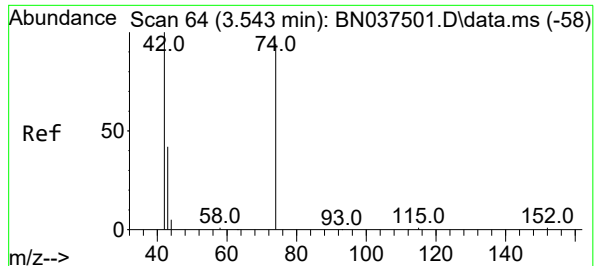
Tgt Ion:152 Resp: 2243
Ion Ratio Lower Upper
152 100
150 155.8 119.8 179.8
115 60.8 49.1 73.7



#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

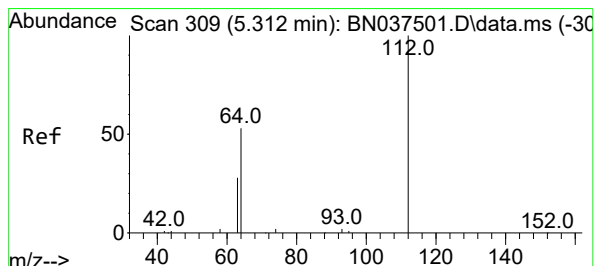
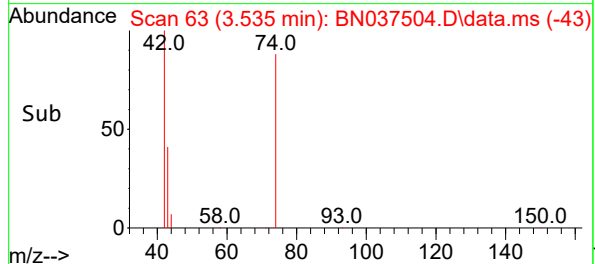
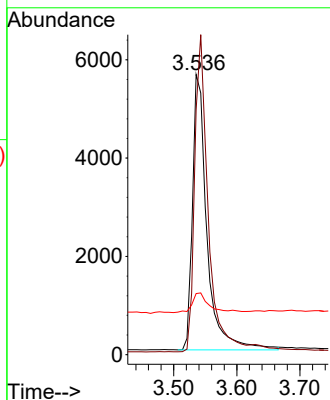
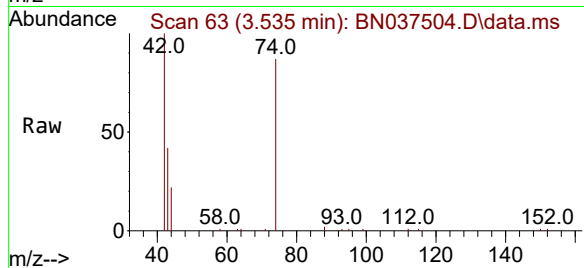




#3
n-Nitrosodimethylamine
Concen: 3.298 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

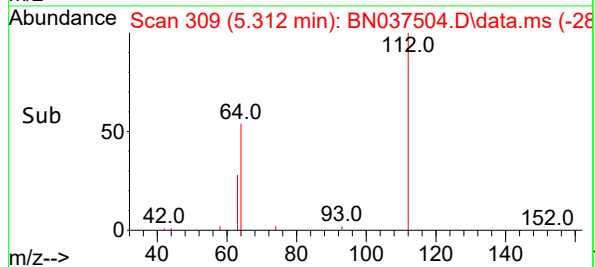
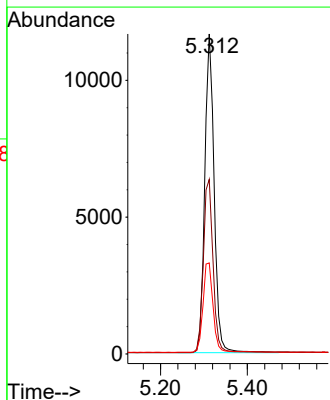
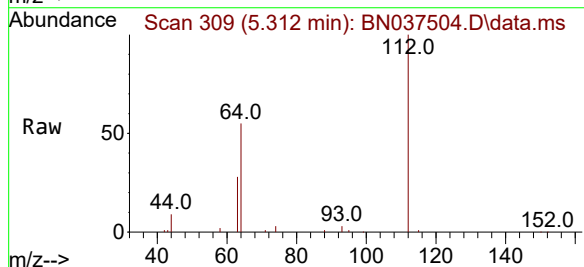
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

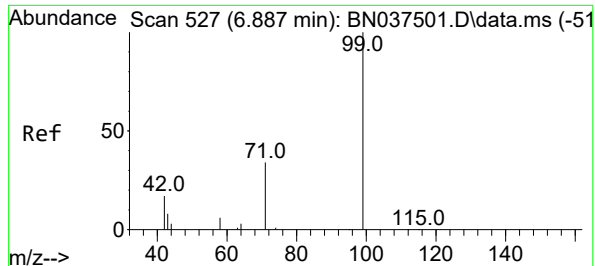
Tgt Ion: 42 Resp: 8946
Ion Ratio Lower Upper
42 100
74 110.0 91.8 137.6
44 8.4 15.0 22.6#



#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

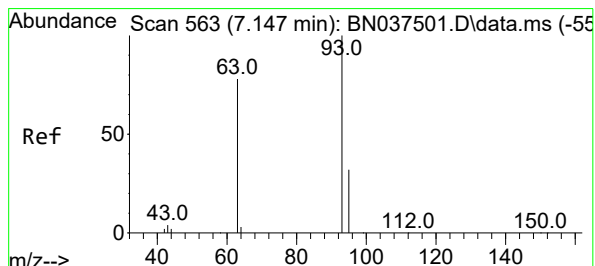
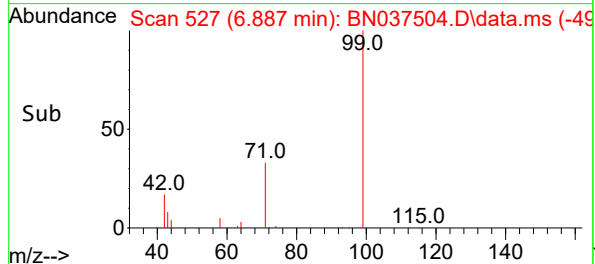
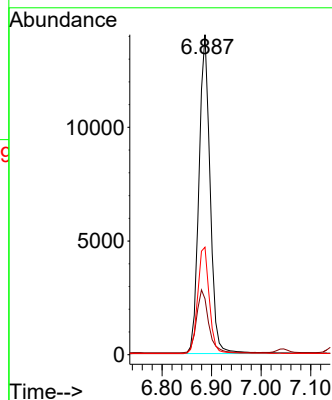
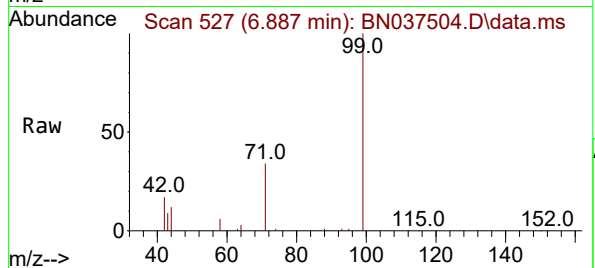




#5
Phenol-d6
Concen: 3.169 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

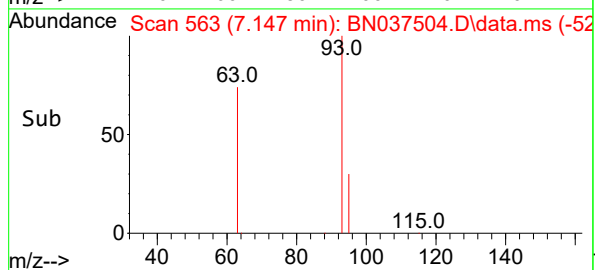
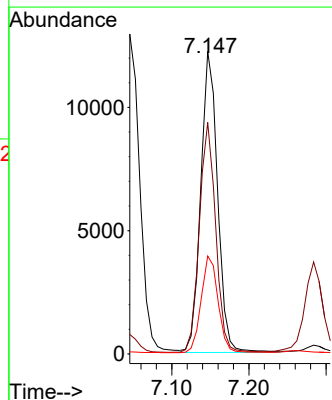
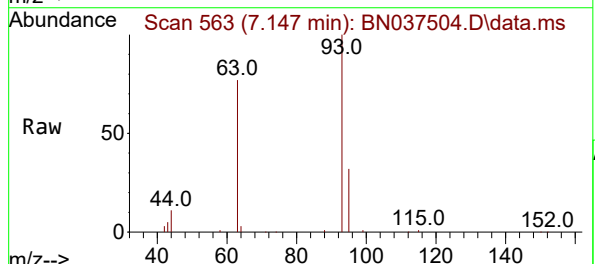
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

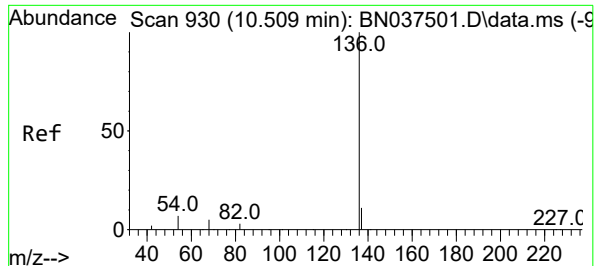
Tgt Ion: 99 Resp: 22047
Ion Ratio Lower Upper
99 100
42 21.2 17.1 25.7
71 34.8 27.8 41.8



#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

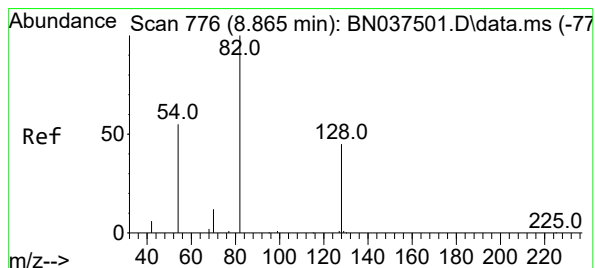
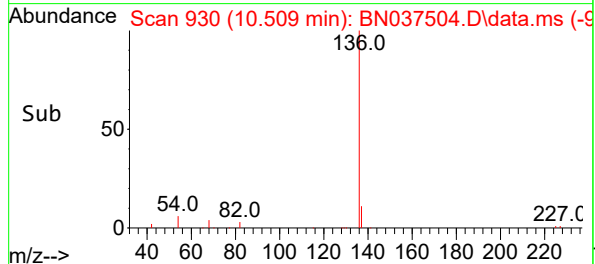
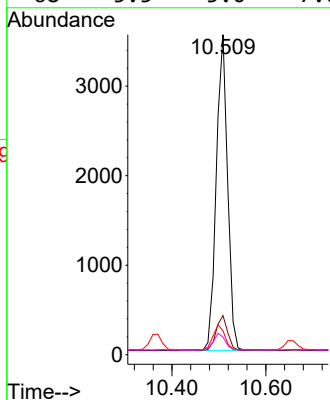
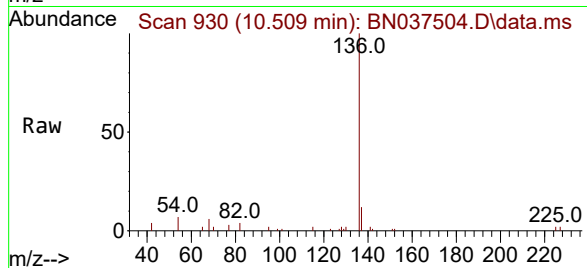




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

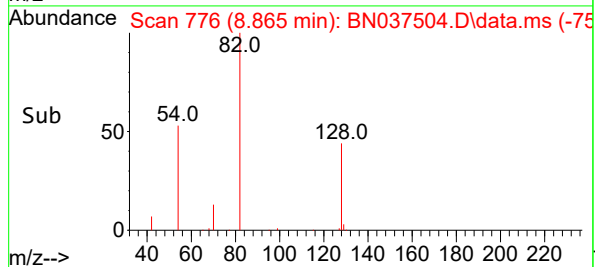
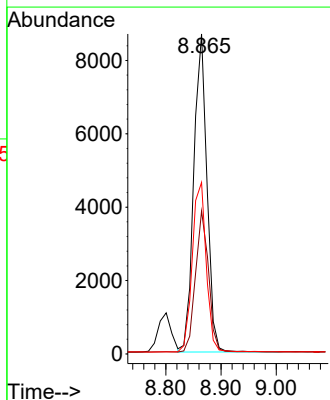
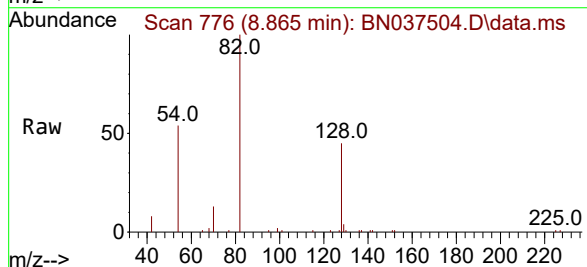
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

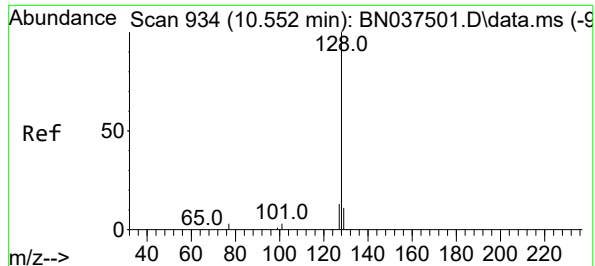
Tgt Ion:	136	Resp:	5878
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	7.5	6.6	9.8
68	5.5	5.0	7.6



#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

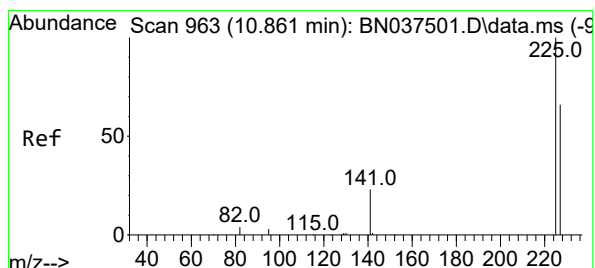
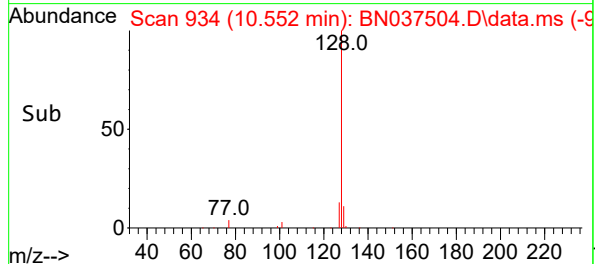
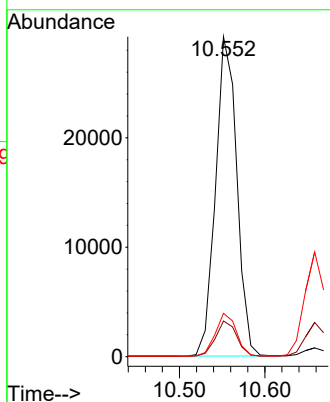
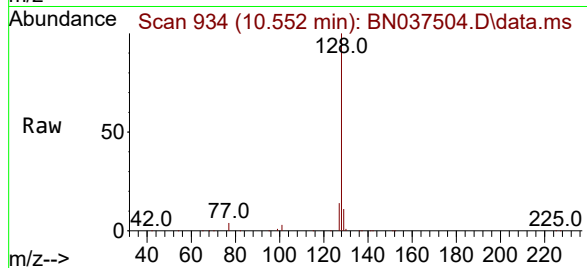




#9
Naphthalene
Concen: 3.219 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

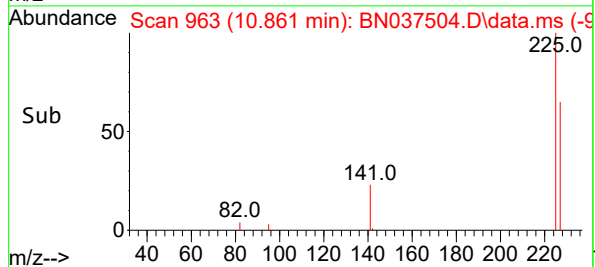
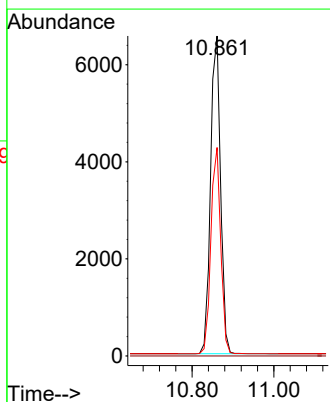
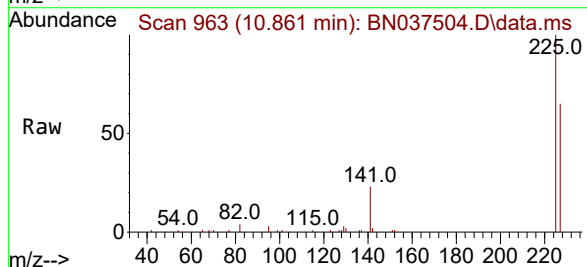
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

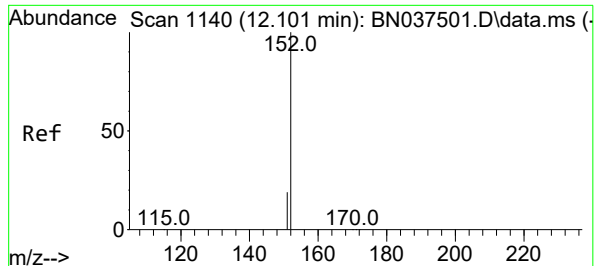
Tgt Ion:128 Resp: 50467
Ion Ratio Lower Upper
128 100
129 11.1 9.7 14.5
127 13.6 11.5 17.3



#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

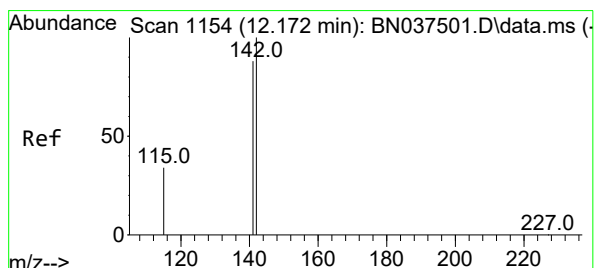
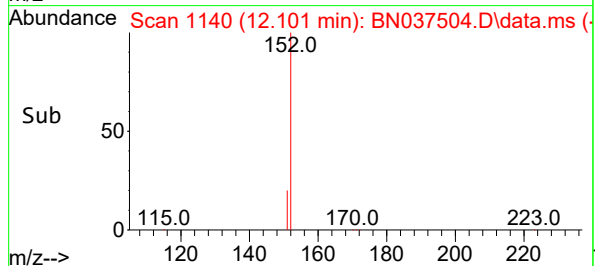
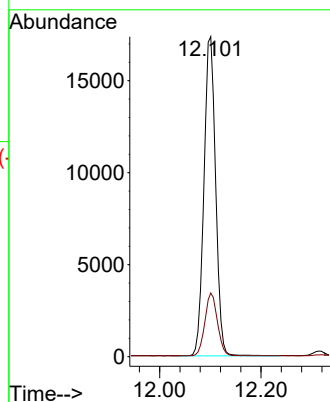
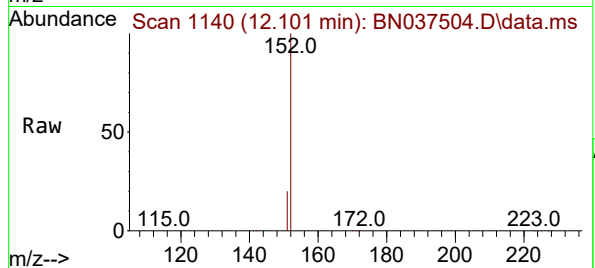




#11
2-Methylnaphthalene-d10
Concen: 3.293 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

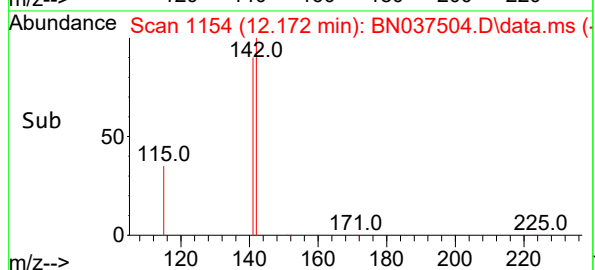
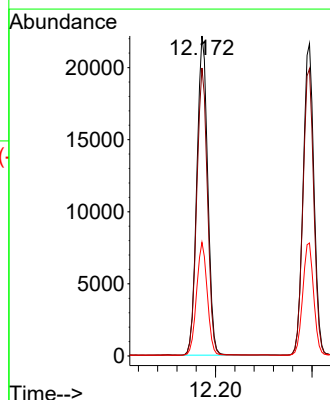
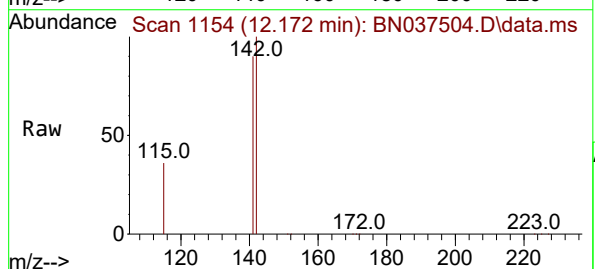
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

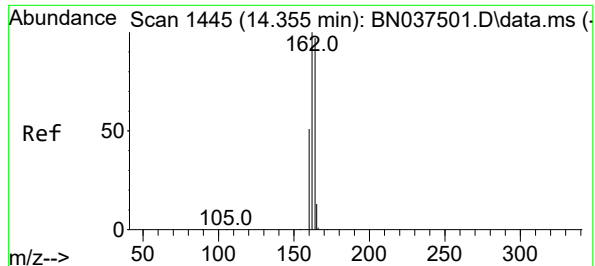
Tgt Ion:152 Resp: 27759
Ion Ratio Lower Upper
152 100
151 21.1 16.8 25.2



#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

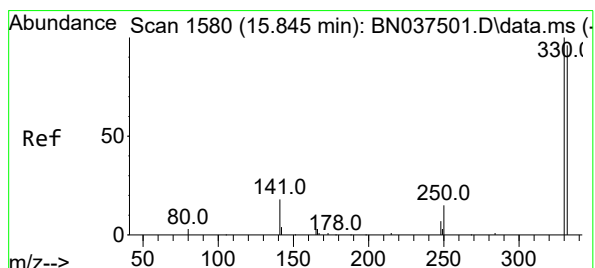
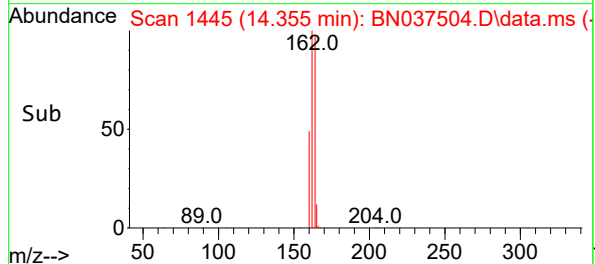
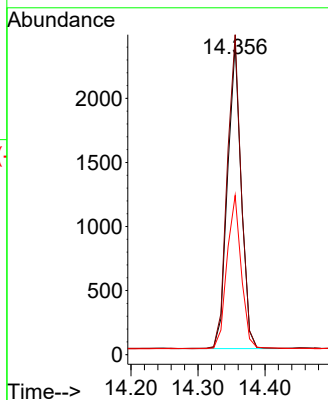
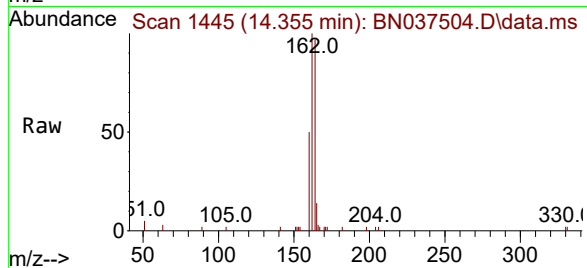




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

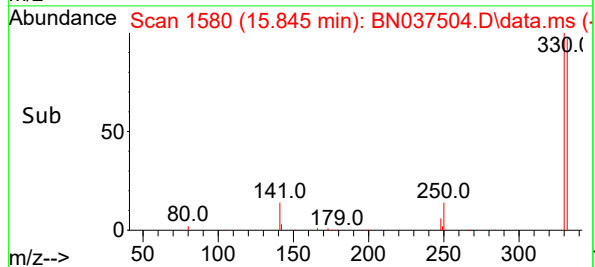
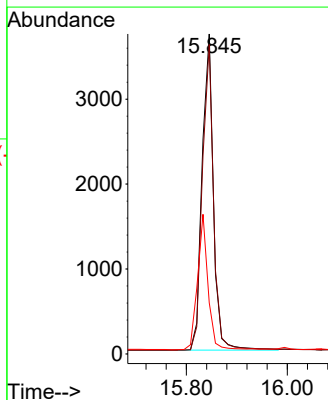
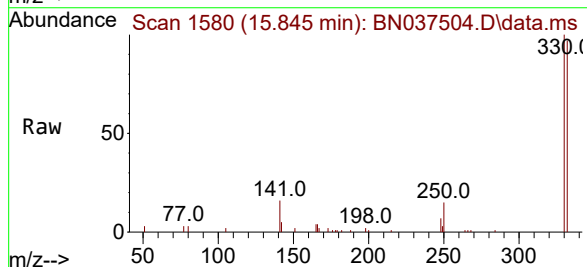
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

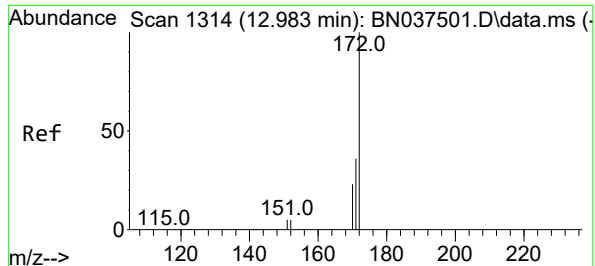
Tgt Ion:164 Resp: 3382
Ion Ratio Lower Upper
164 100
162 102.9 82.0 123.0
160 51.2 42.4 63.6



#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

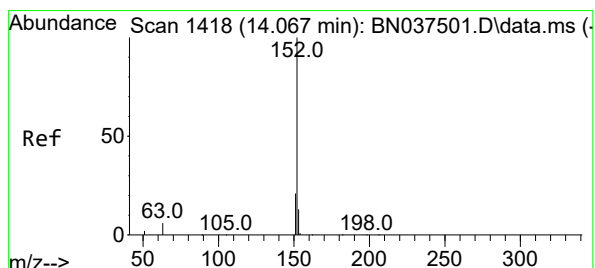
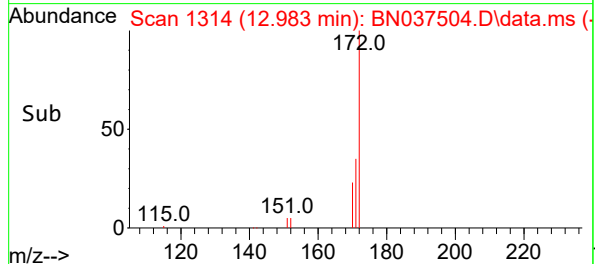
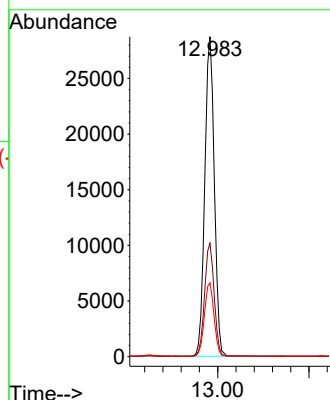
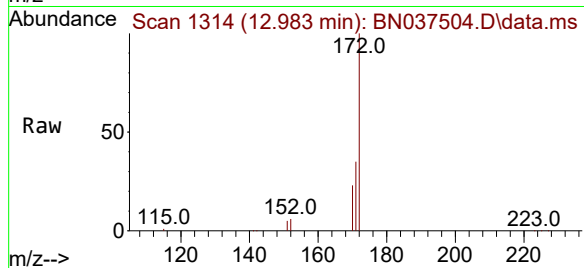




#15
2-Fluorobiphenyl
Concen: 3.393 ng
RT: 12.983 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

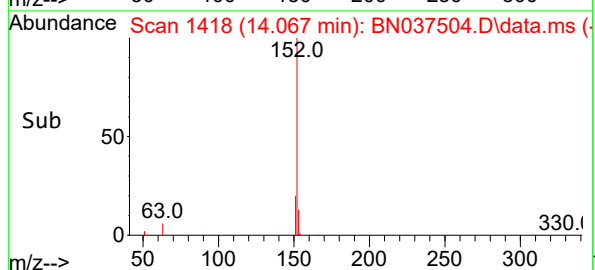
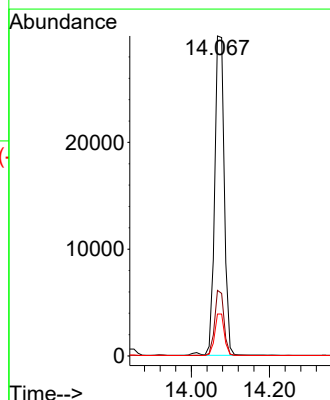
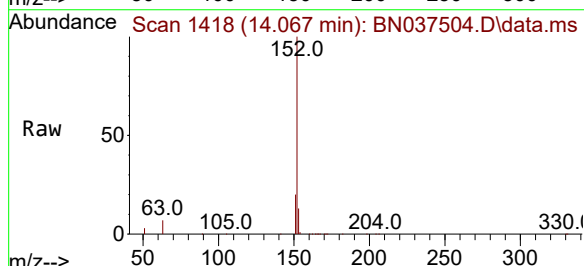
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

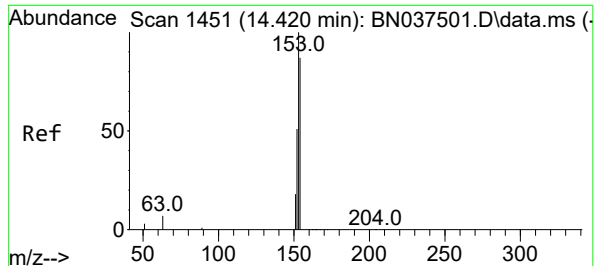
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.4	44.2
170	23.1	19.4	29.0



#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	Ratio	Lower	Upper
152	100		
151	19.8	15.9	23.9
153	13.0	10.7	16.1

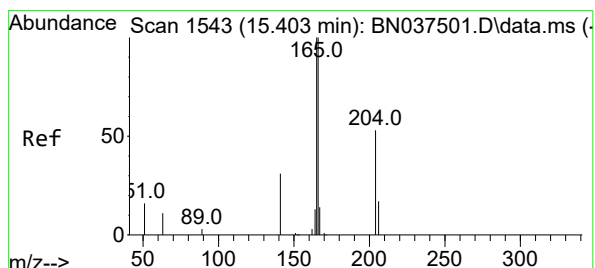
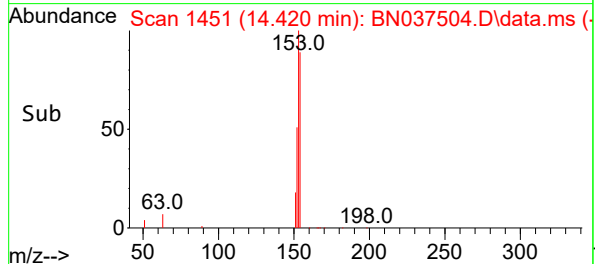
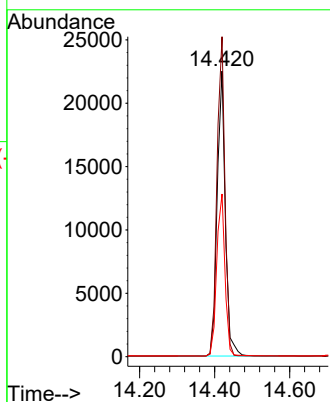
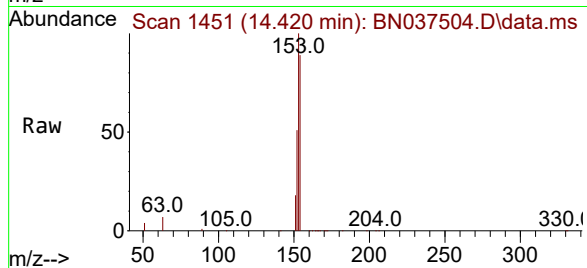




#17
Acenaphthene
Concen: 3.286 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

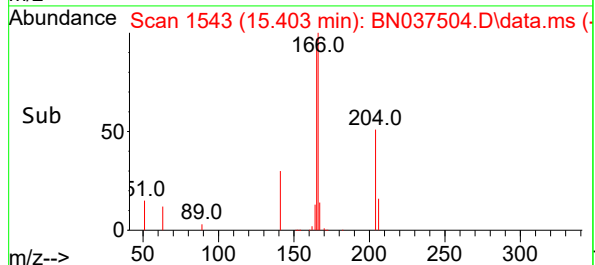
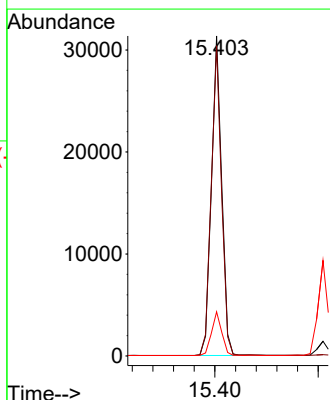
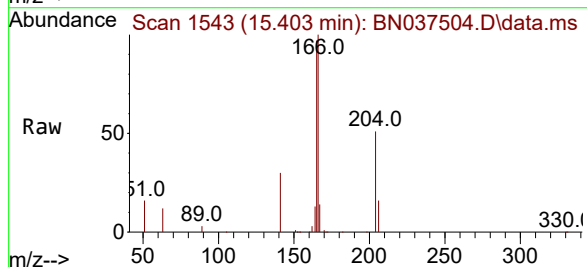
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

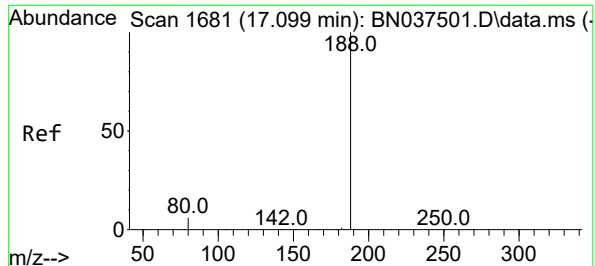
Tgt Ion:154 Resp: 33858
Ion Ratio Lower Upper
154 100
153 109.6 89.2 133.8
152 57.7 48.0 72.0



#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

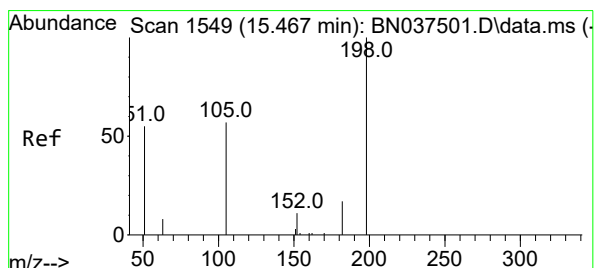
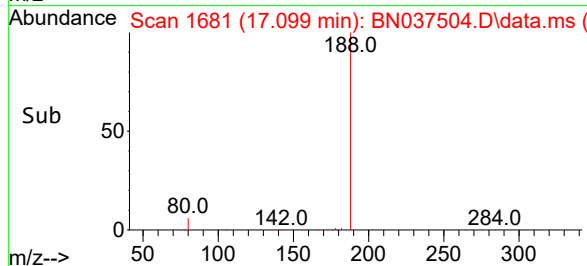
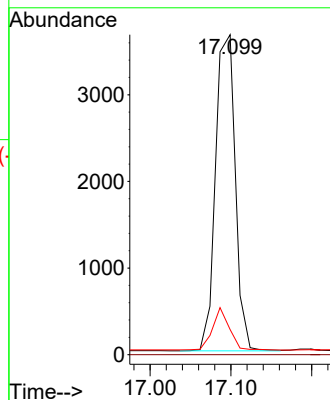
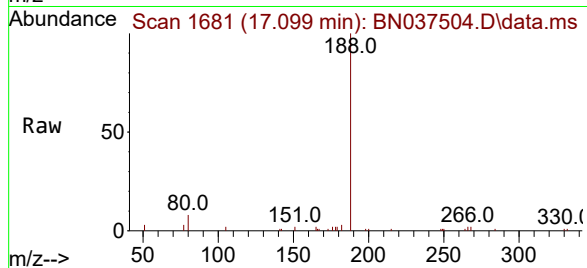
Tgt Ion:188 Resp: 6204

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

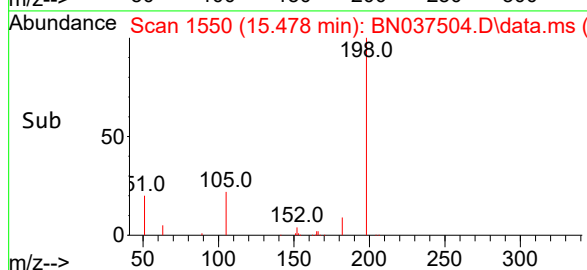
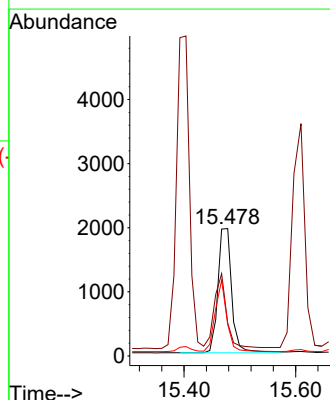
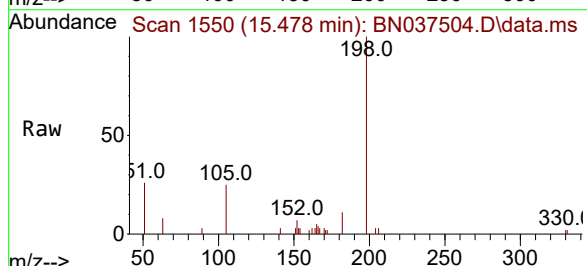
Tgt Ion:198 Resp: 3484

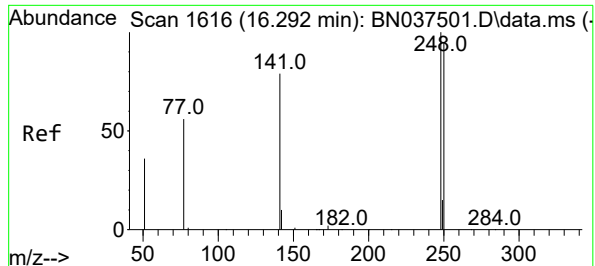
Ion Ratio Lower Upper

198 100

51 25.8 88.5 132.7#

105 24.7 61.2 91.8#

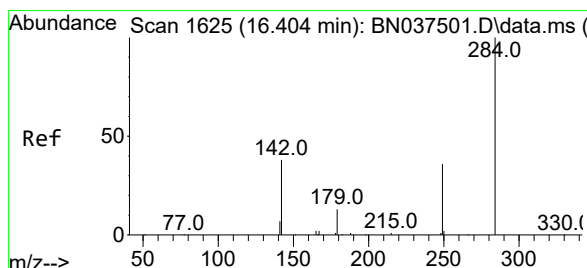
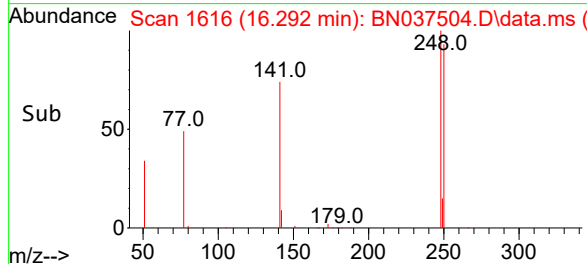
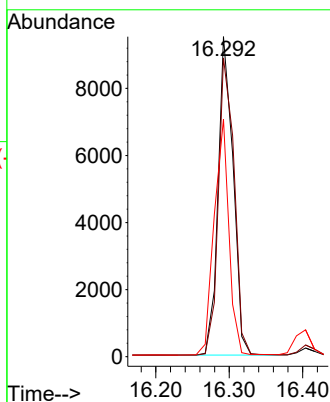
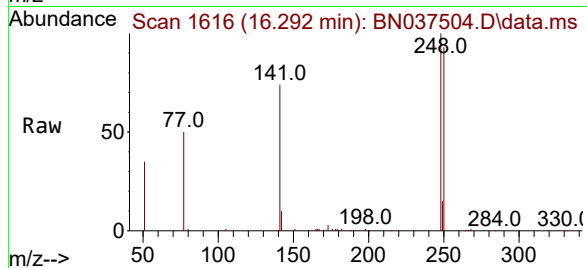




#21
4-Bromophenyl-phenylether
Concen: 3.395 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

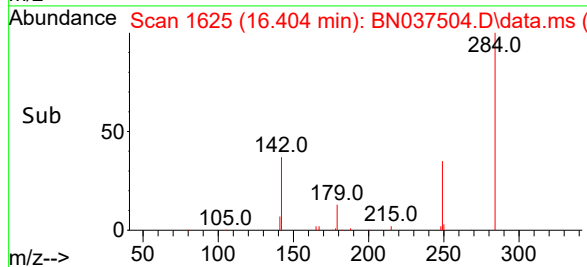
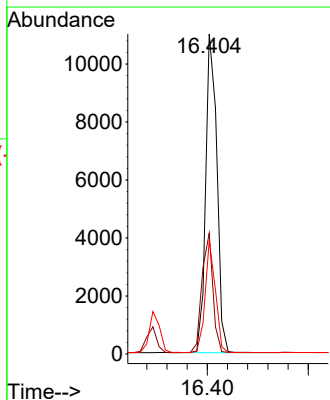
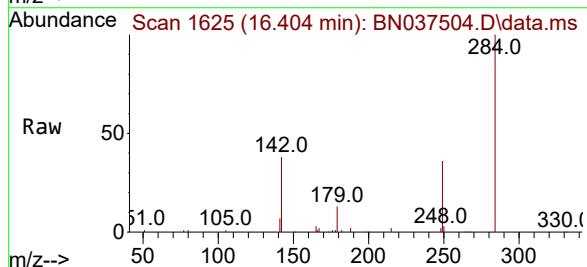
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

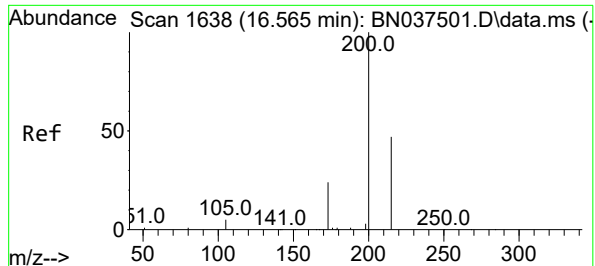
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.2	114.2
141	74.3	63.9	95.9



#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

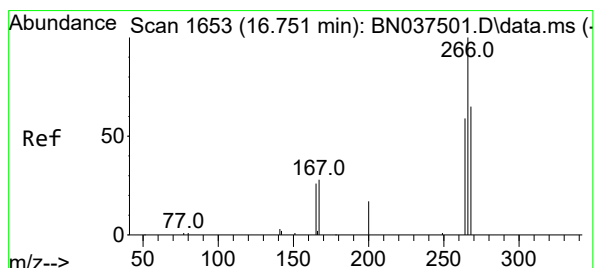
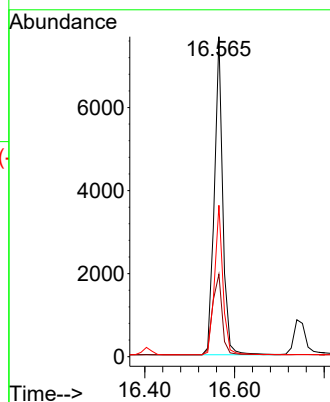
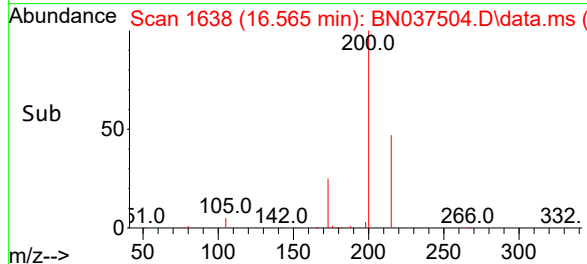
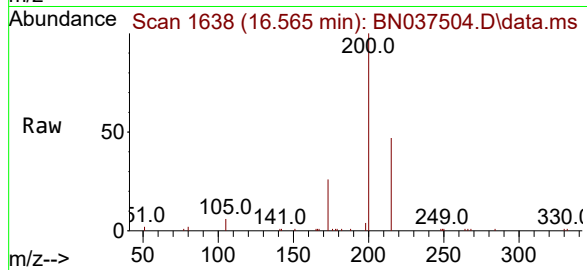




#23
Atrazine
Concen: 3.584 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

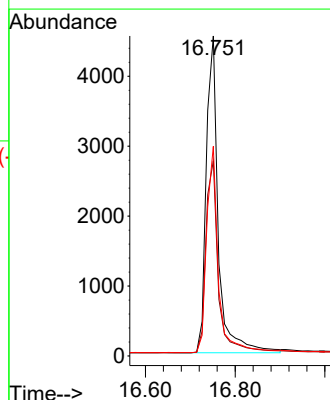
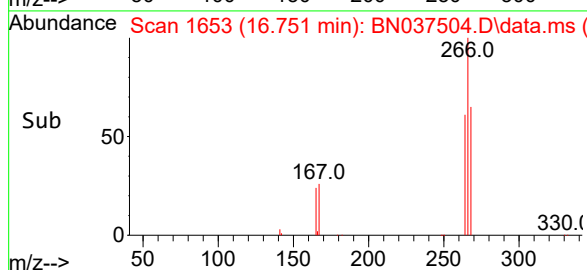
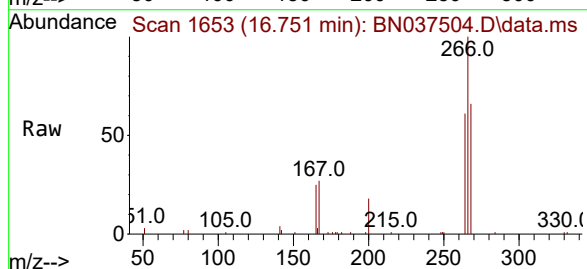
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

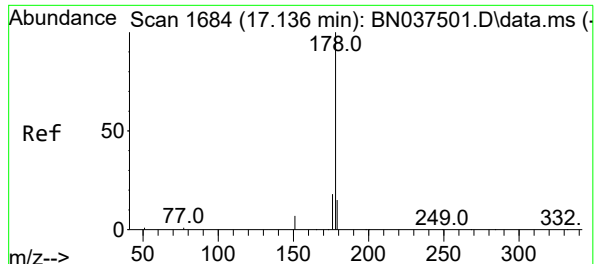
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.8	23.2	34.8
215	47.3	40.2	60.4



#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	Ratio	Lower	Upper
266	100		
264	62.4	49.3	73.9
268	63.0	51.6	77.4

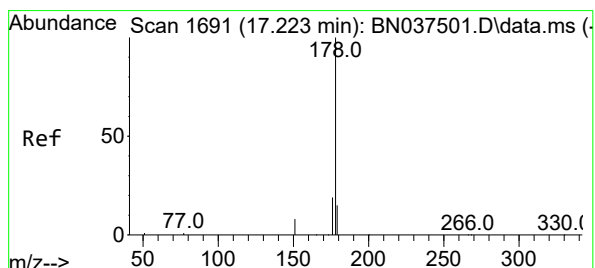
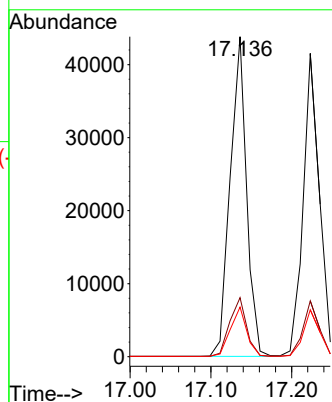
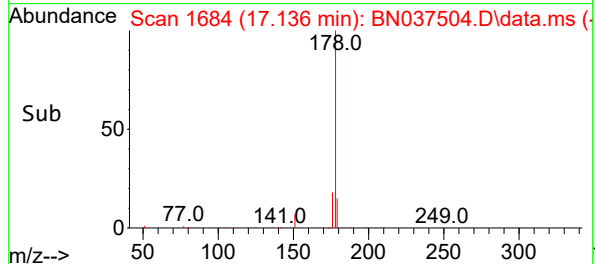
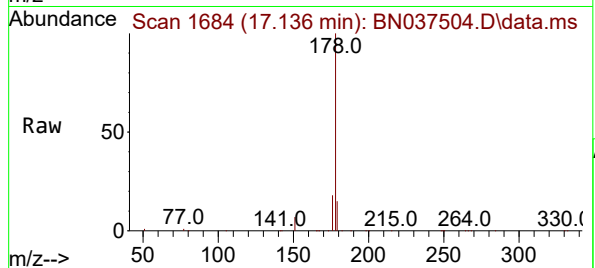




#25
Phenanthrene
Concen: 3.333 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

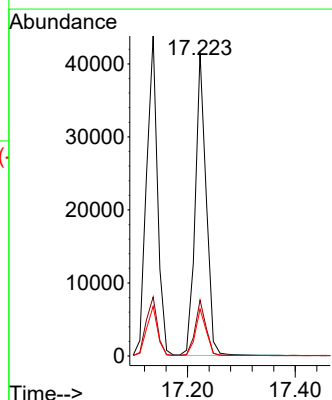
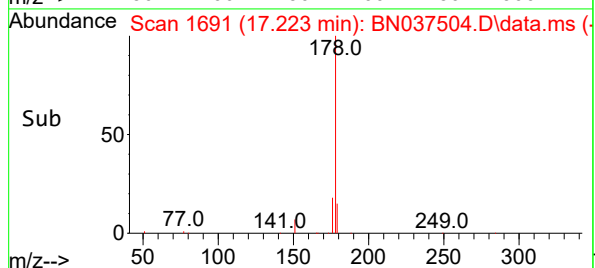
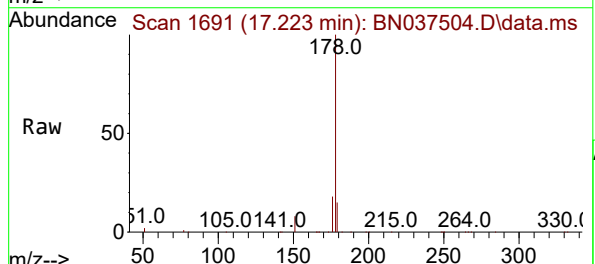
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

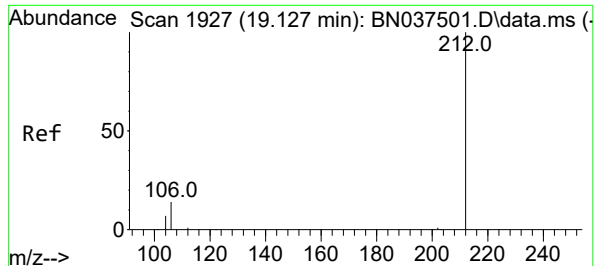
Tgt Ion:178 Resp: 61959
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.3 12.2 18.2



#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

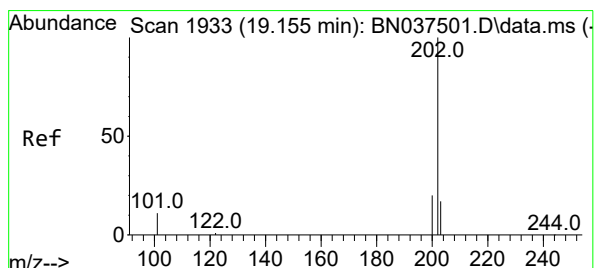
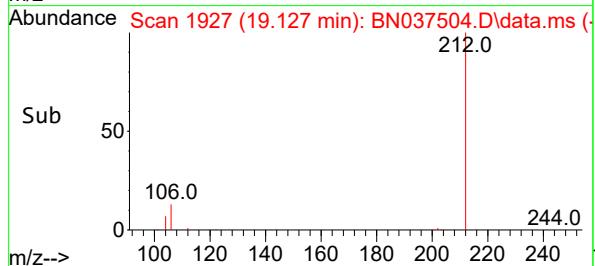
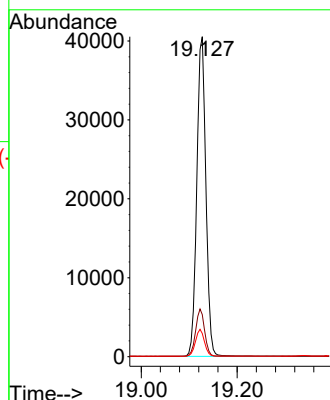
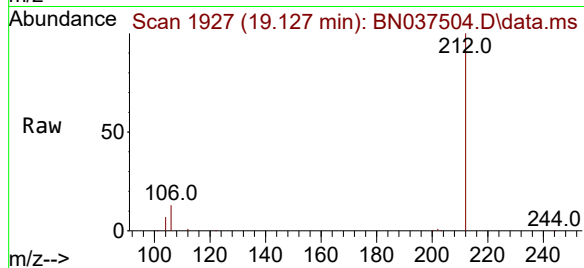
Tgt Ion:212 Resp: 53521

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

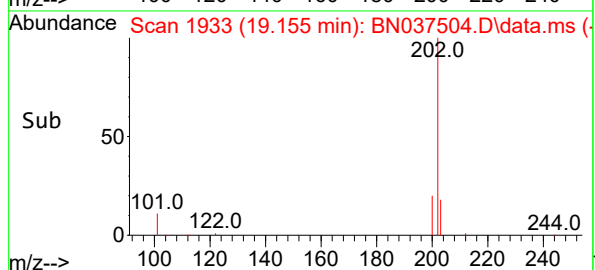
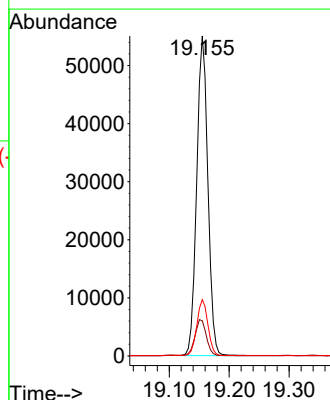
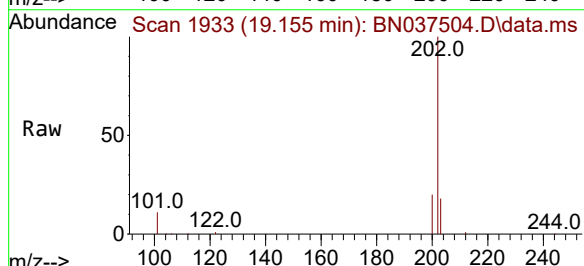
Tgt Ion:202 Resp: 71018

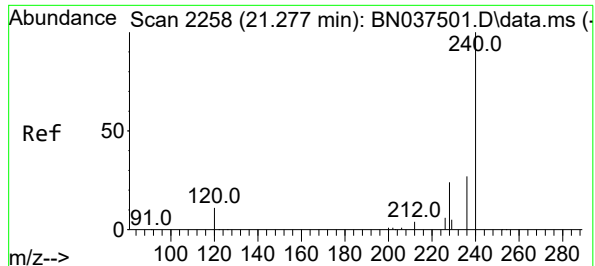
Ion Ratio Lower Upper

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

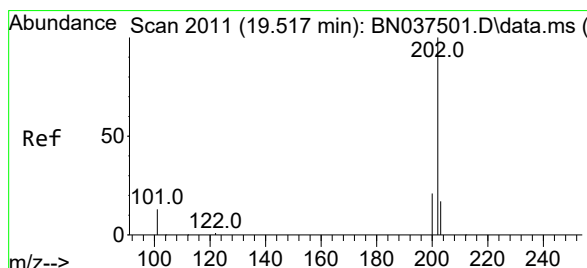
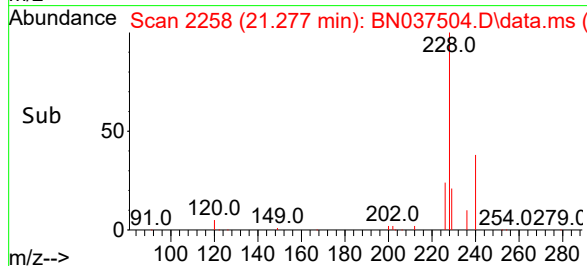
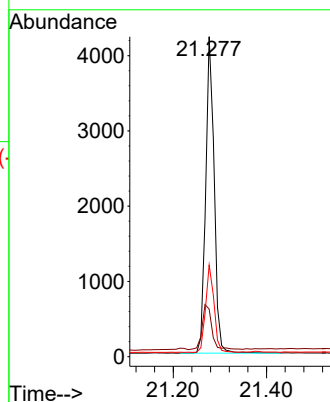
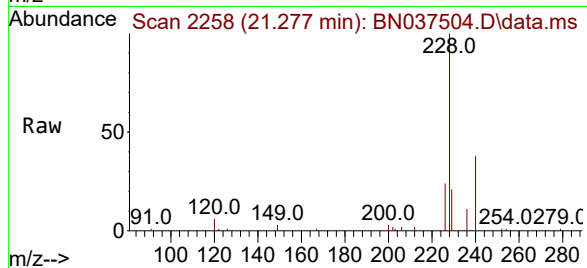
Tgt Ion:240 Resp: 5331

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

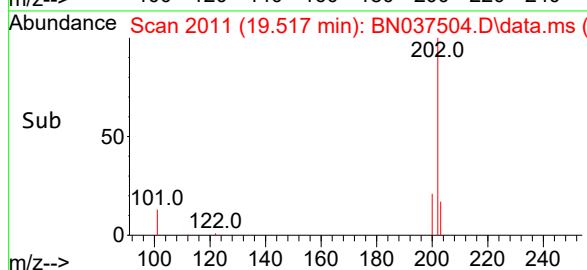
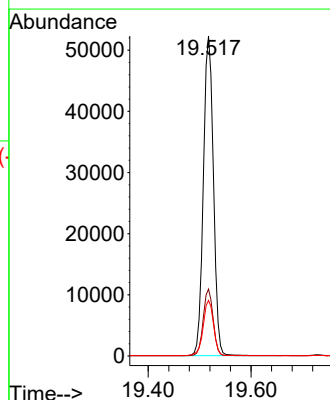
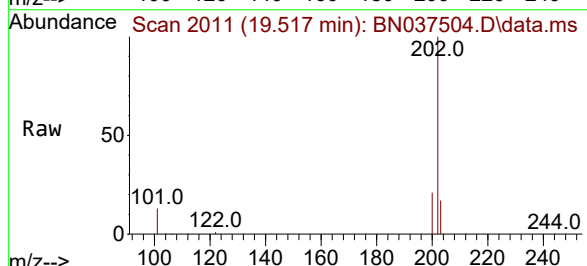
Tgt Ion:202 Resp: 71002

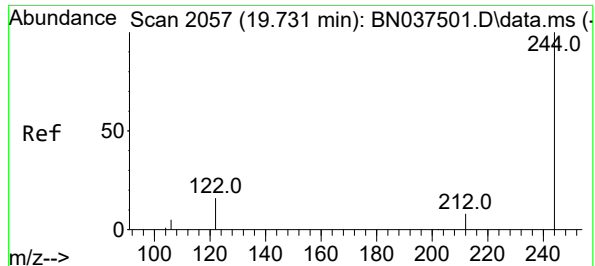
Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

203 17.8 14.3 21.5

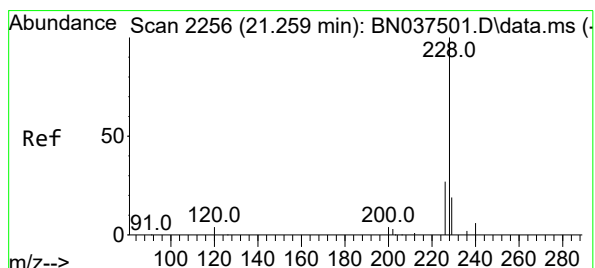
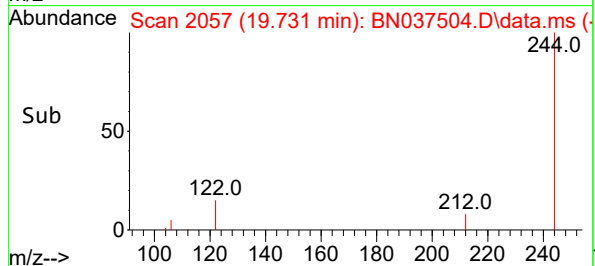
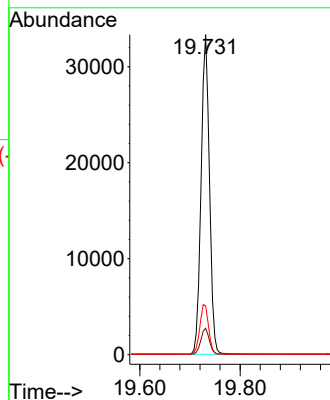
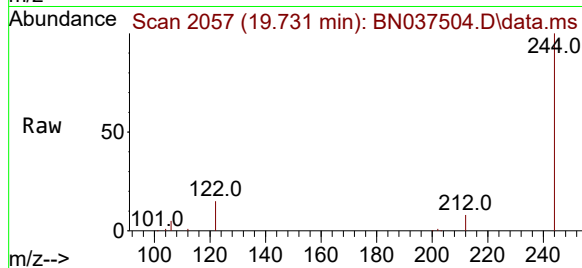




#31
Terphenyl-d14
Concen: 3.357 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

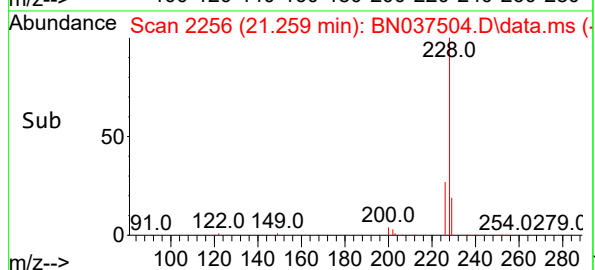
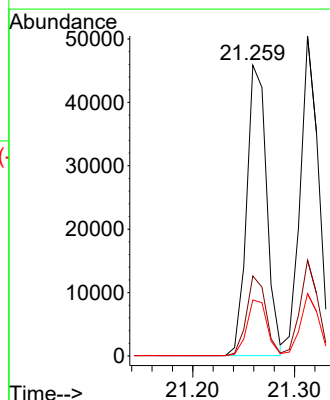
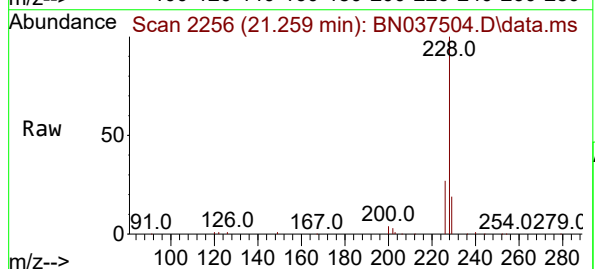
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

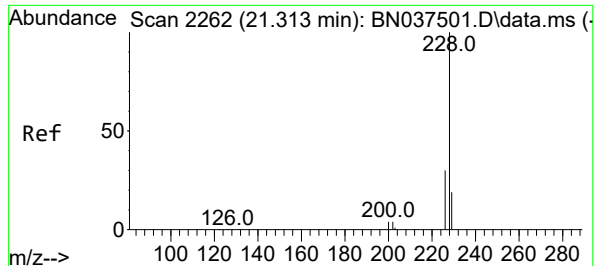
Tgt Ion:244 Resp: 38458
Ion Ratio Lower Upper
244 100
212 8.3 7.4 11.2
122 15.3 13.6 20.4



#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

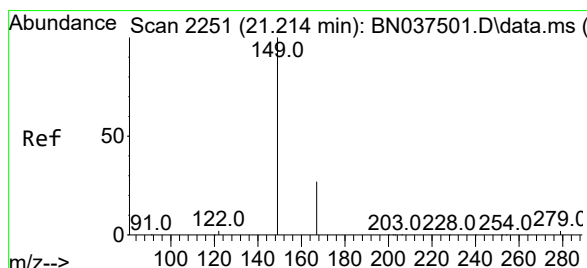
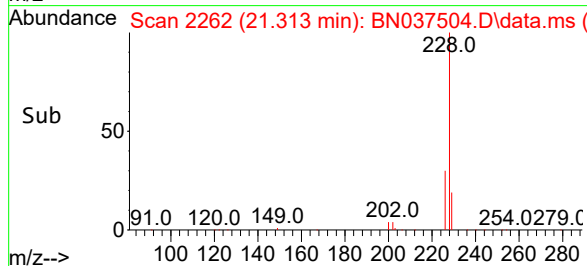
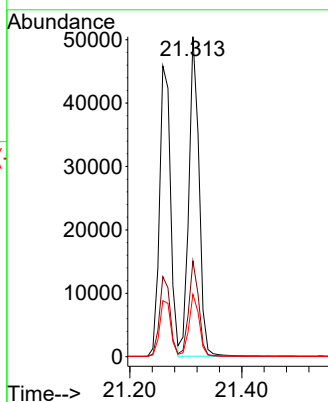
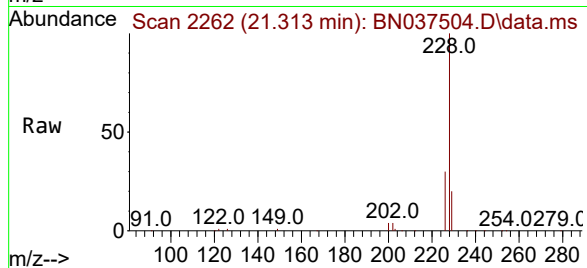




#33
Chrysene
Concen: 3.268 ng
RT: 21.313 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

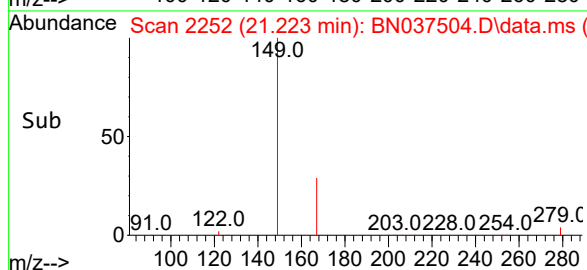
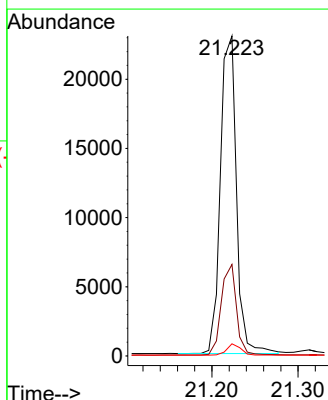
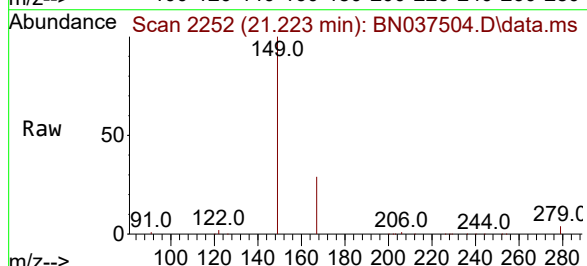
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

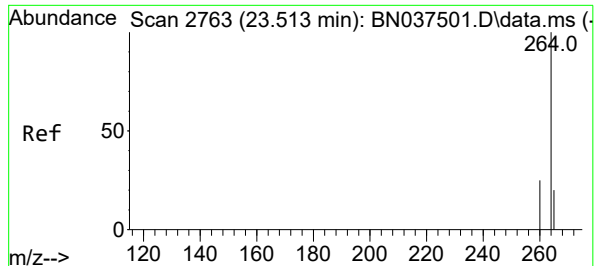
Tgt Ion:228 Resp: 63542
Ion Ratio Lower Upper
228 100
226 30.0 24.2 36.4
229 19.5 16.1 24.1



#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

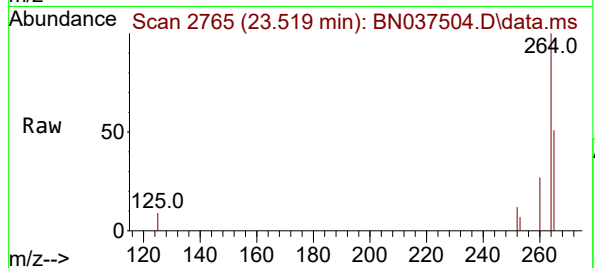
Tgt Ion:149 Resp: 29561
Ion Ratio Lower Upper
149 100
167 27.0 21.8 32.8
279 3.1 3.0 4.4



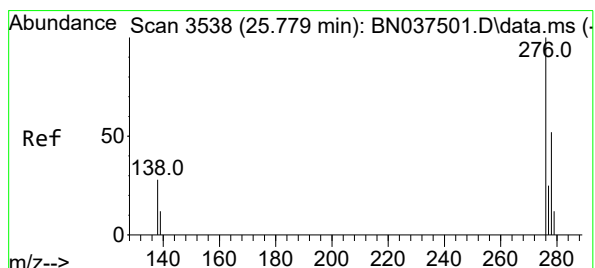
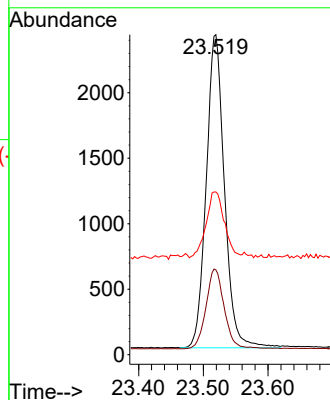
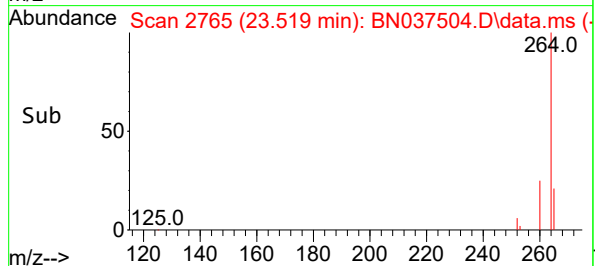


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

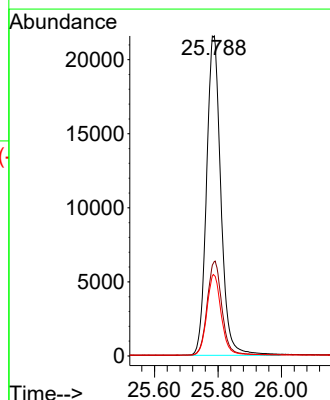
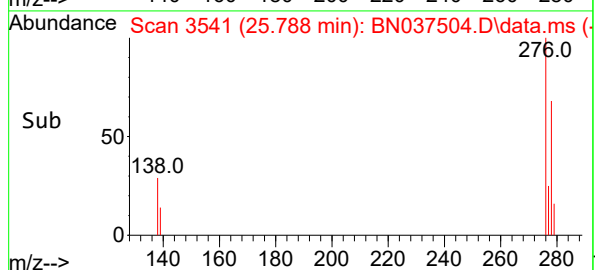
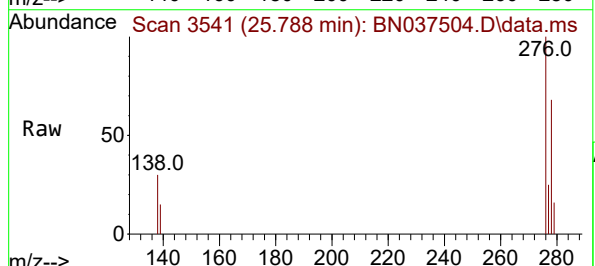


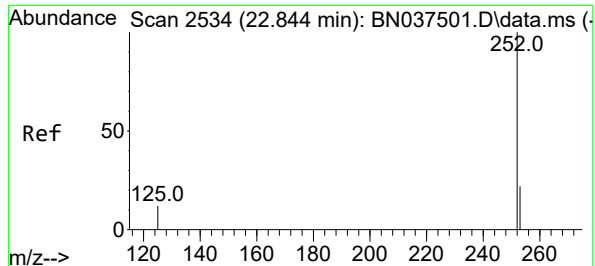
Tgt Ion:264 Resp: 4672
Ion Ratio Lower Upper
264 100
260 26.5 21.2 31.8
265 50.8 40.4 60.6



#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

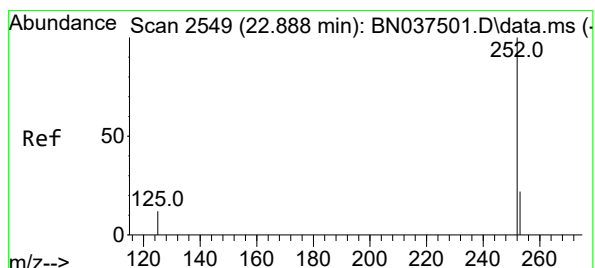
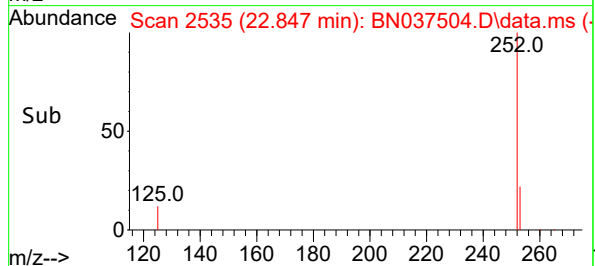
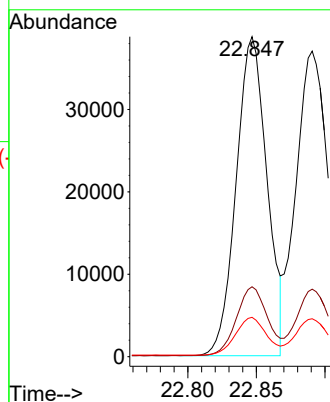
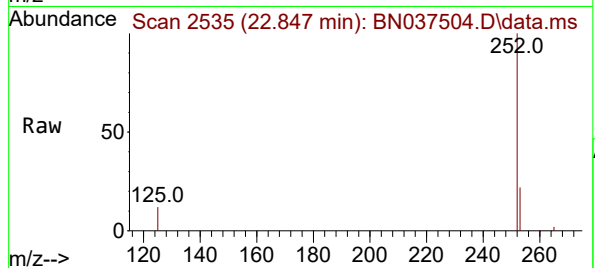
Tgt Ion:252 Resp: 60420

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

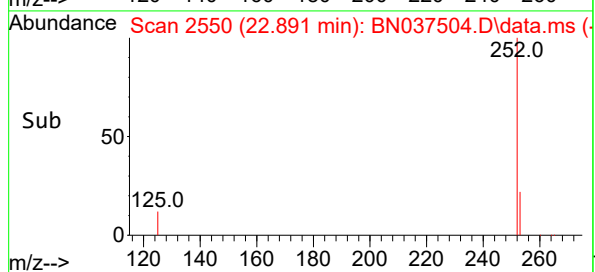
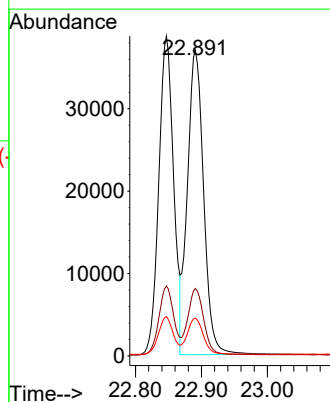
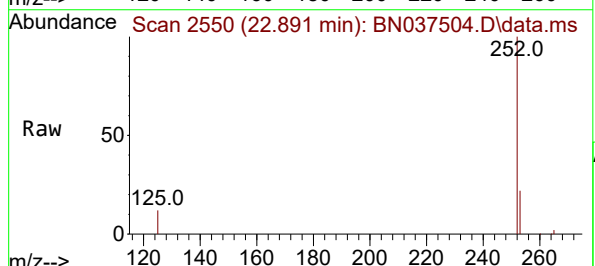
Tgt Ion:252 Resp: 63137

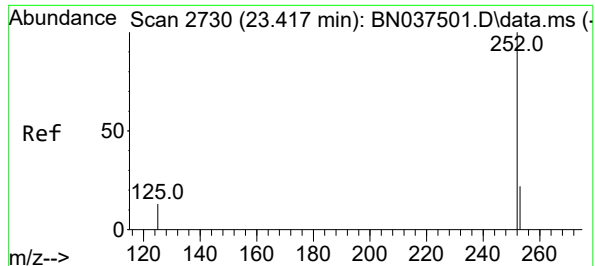
Ion Ratio Lower Upper

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

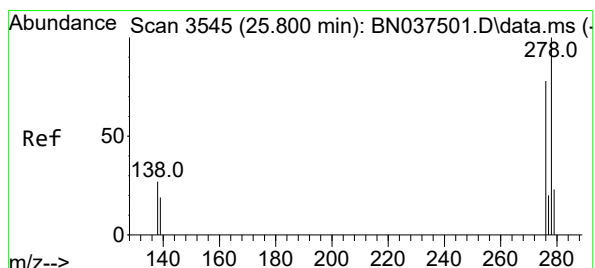
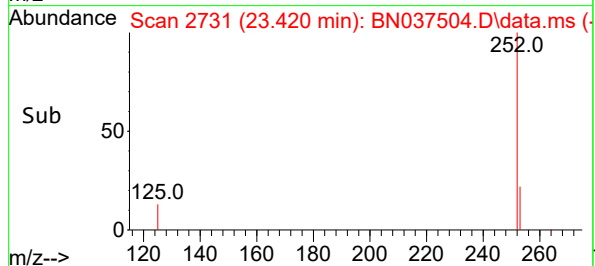
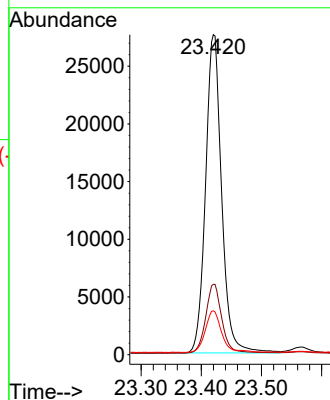
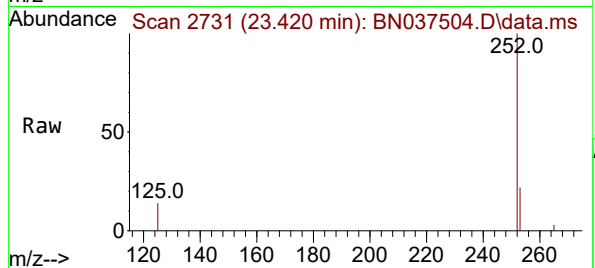
Tgt Ion:252 Resp: 51171

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

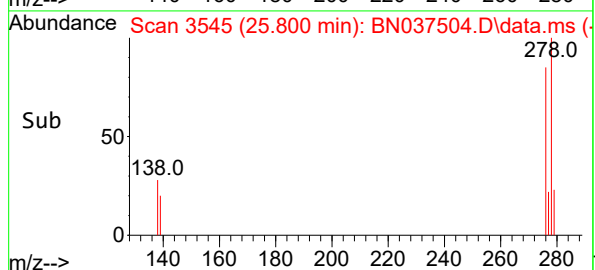
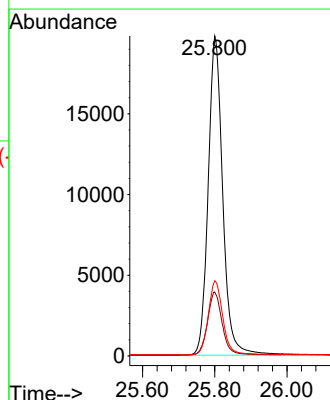
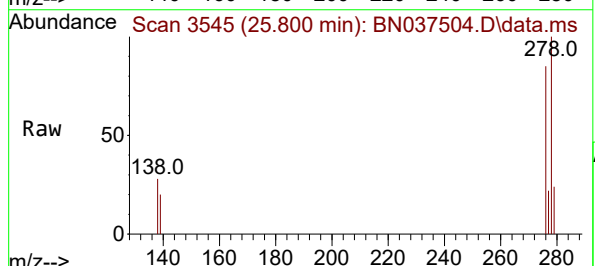
Tgt Ion:278 Resp: 55412

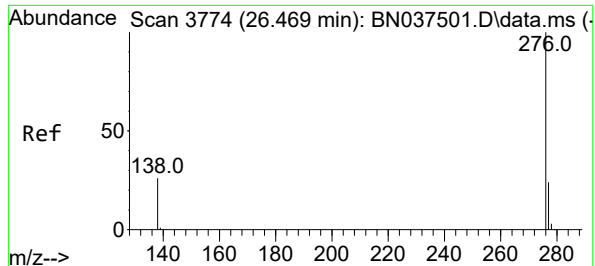
Ion Ratio Lower Upper

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

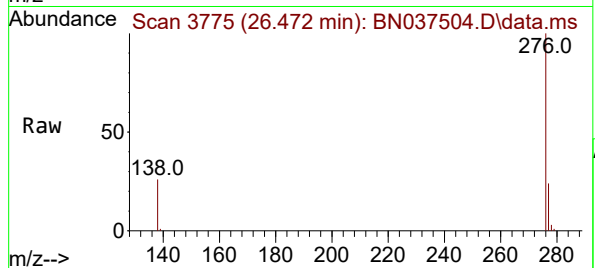
Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



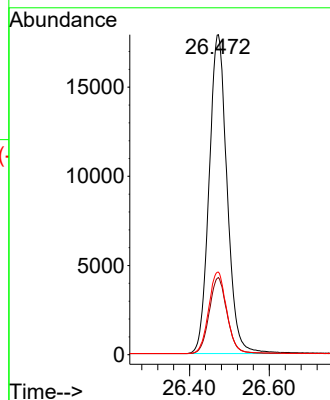
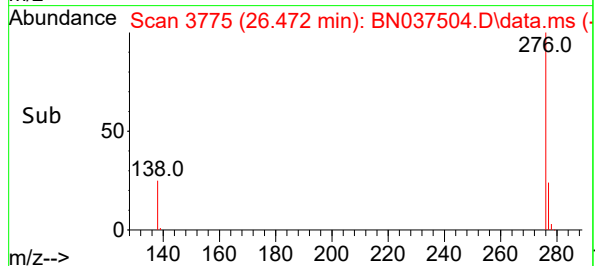
Tgt Ion:276 Resp: 55959

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)

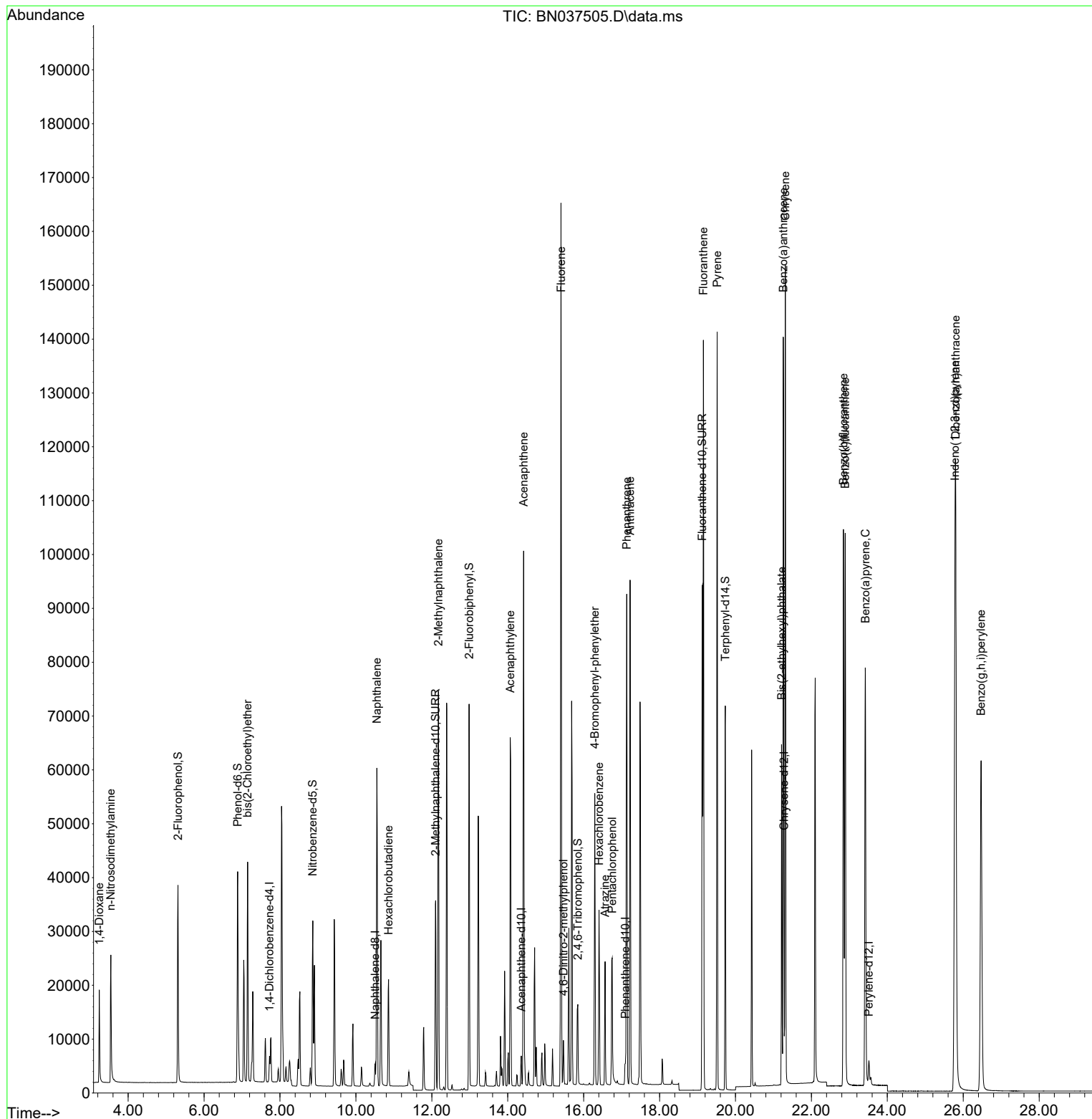
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2230	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5395	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	3026	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	5918	0.400	ng	0.00
29) Chrysene-d12	21.277	240	6176	0.400	ng	0.00
35) Perylene-d12	23.516	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						Qvalue
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

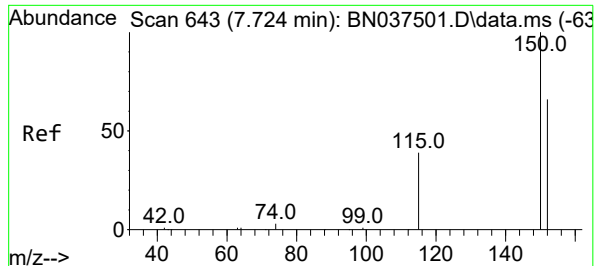
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

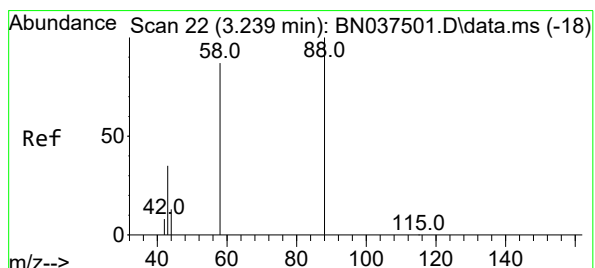
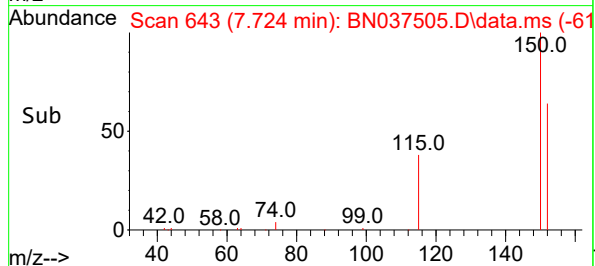
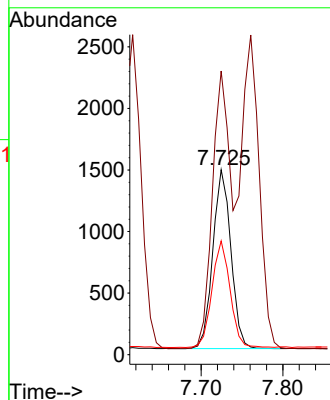
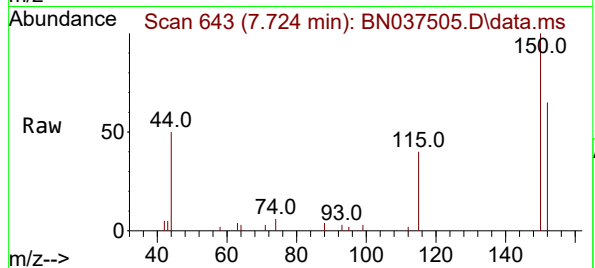




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

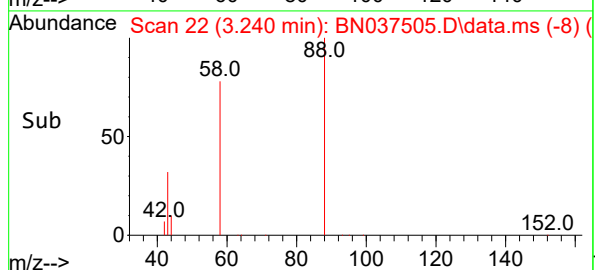
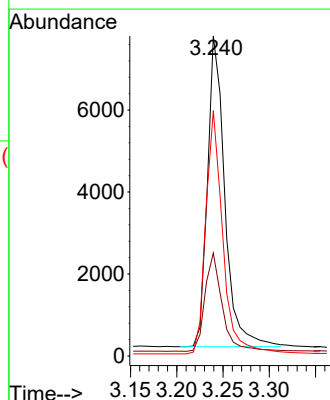
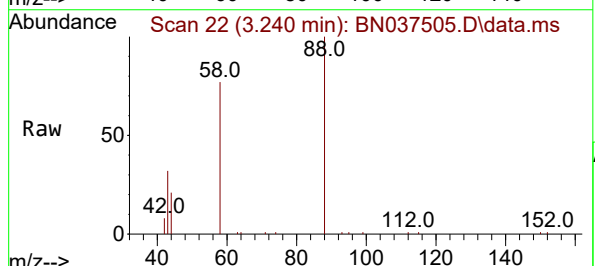
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

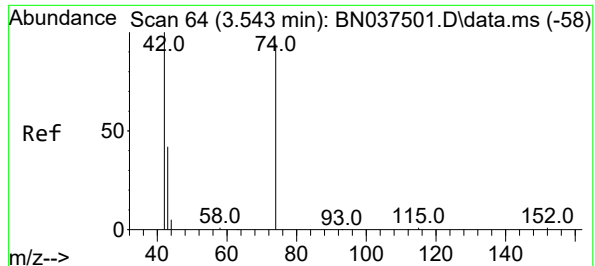
Tgt Ion:152 Resp: 2230
Ion Ratio Lower Upper
152 100
150 153.4 119.8 179.8
115 61.5 49.1 73.7



#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

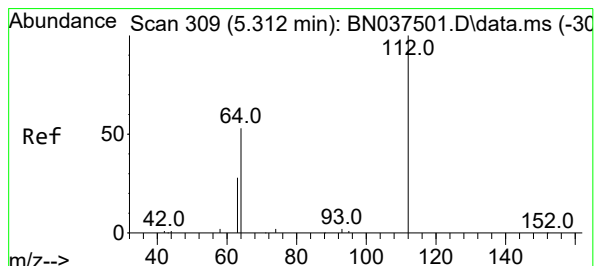
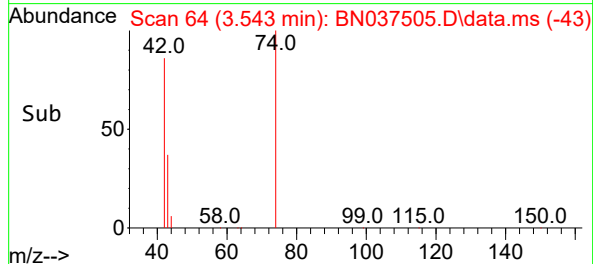
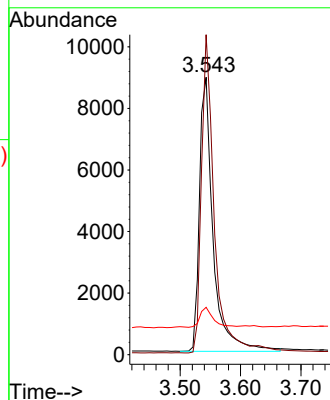
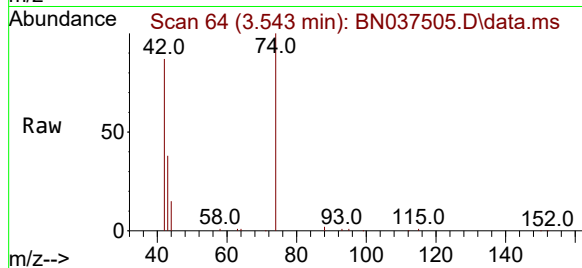




#3
n-Nitrosodimethylamine
Concen: 5.177 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

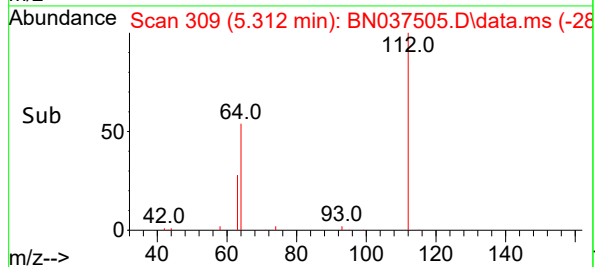
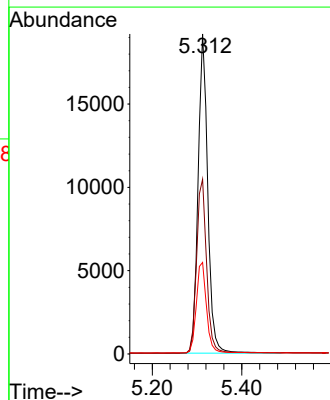
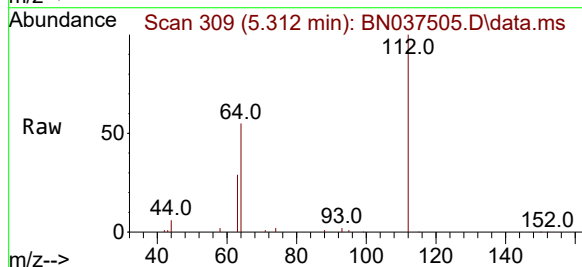
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

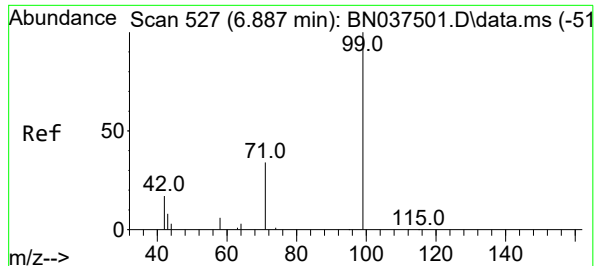
Tgt Ion: 42 Resp: 13961
Ion Ratio Lower Upper
42 100
74 110.6 91.8 137.6
44 7.0 15.0 22.6#



#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

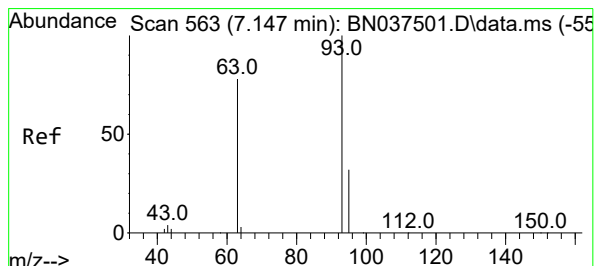
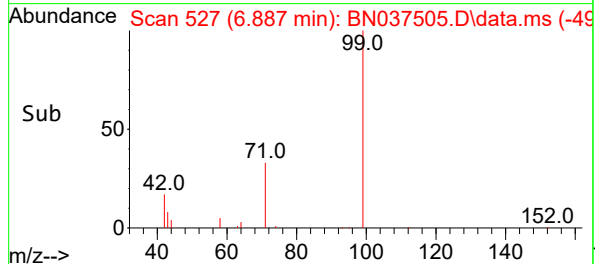
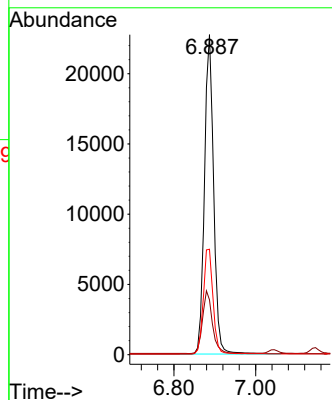
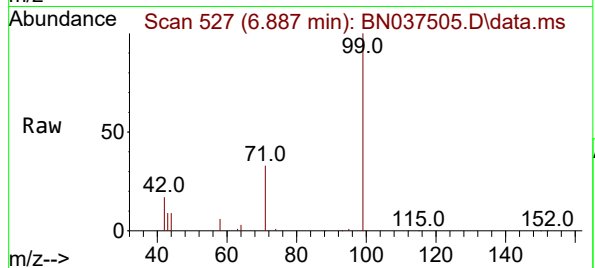




#5
Phenol-d6
Concen: 5.139 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

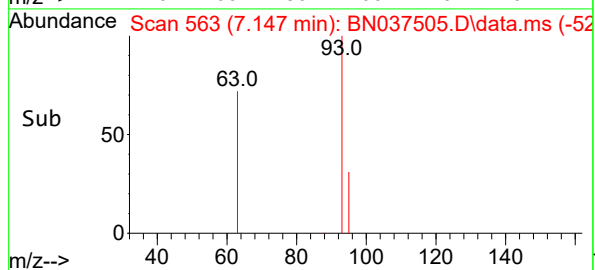
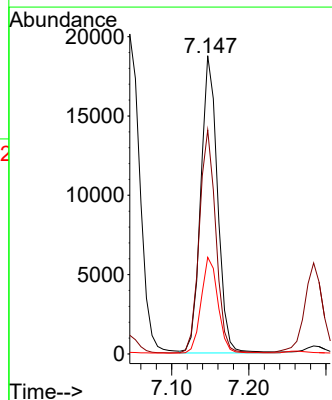
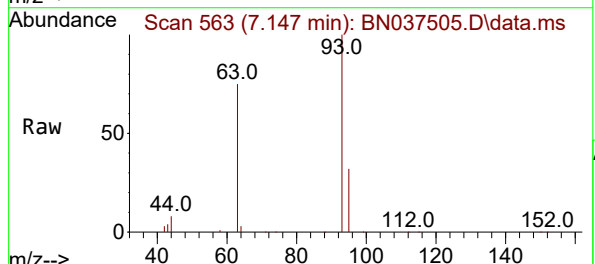
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

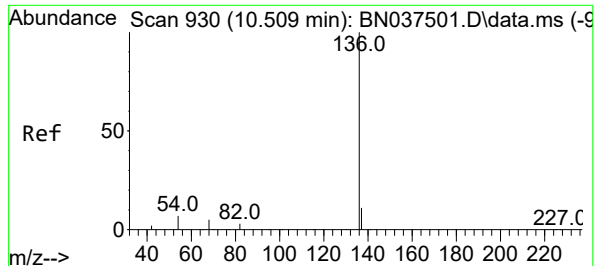
Tgt Ion: 99 Resp: 35549
Ion Ratio Lower Upper
99 100
42 21.0 17.1 25.7
71 34.9 27.8 41.8



#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

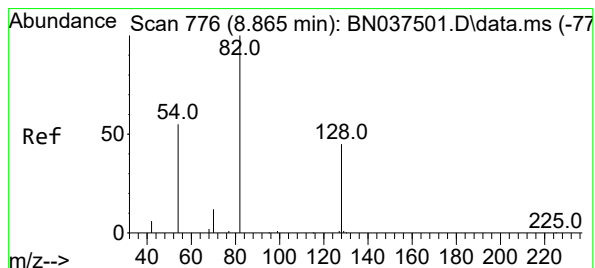
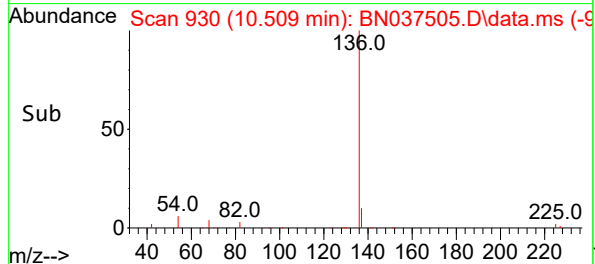
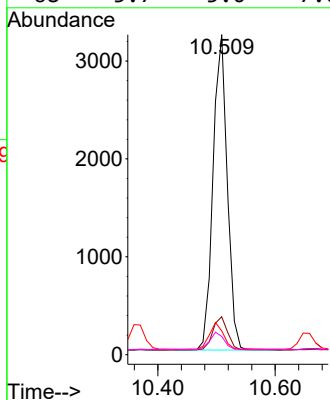
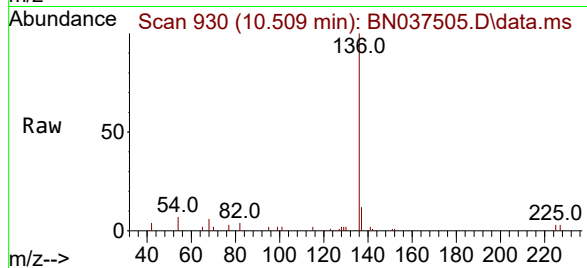




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

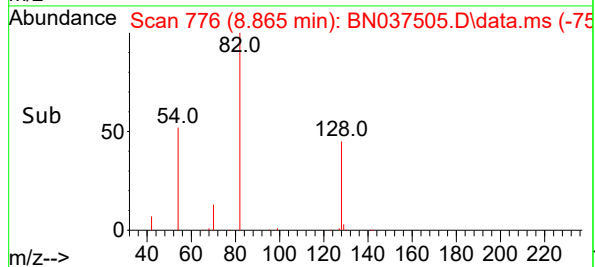
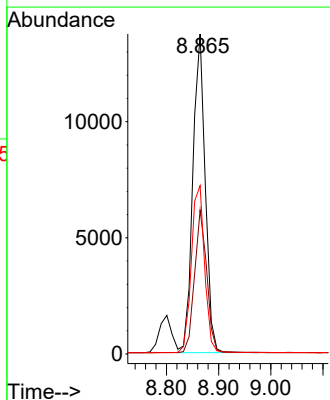
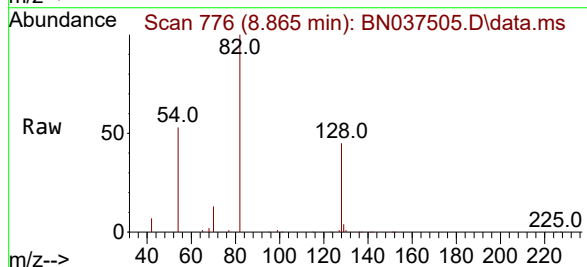
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

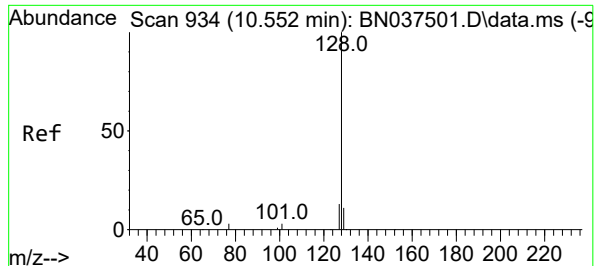
Tgt Ion	136	137	54	68
Ratio	100	11.9	7.5	5.7
Lower		9.8	6.6	5.0
Upper		14.8	9.8	7.6



#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	128	54
Ratio	100	45.0	52.6
Lower		37.5	45.3
Upper		56.3	67.9

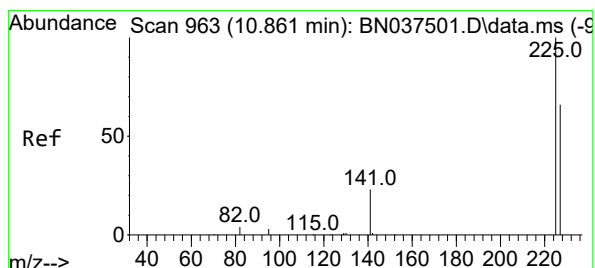
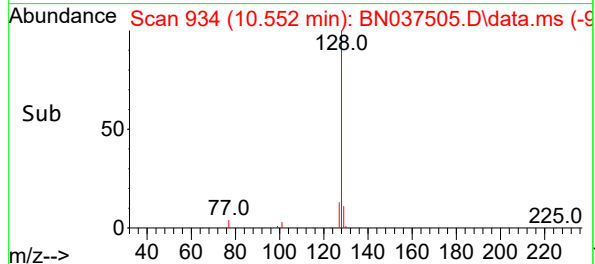
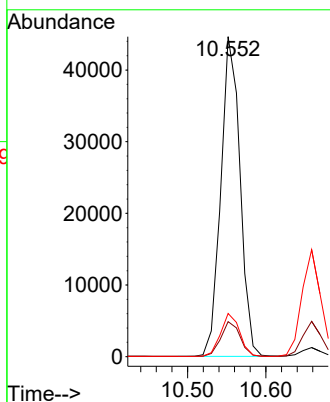
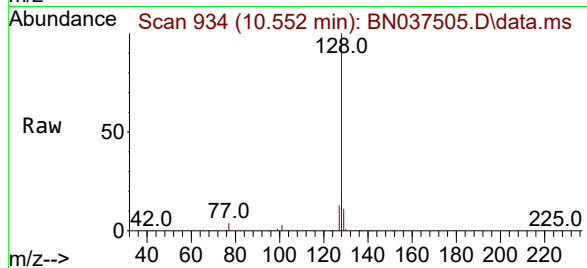




#9
Naphthalene
Concen: 5.279 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

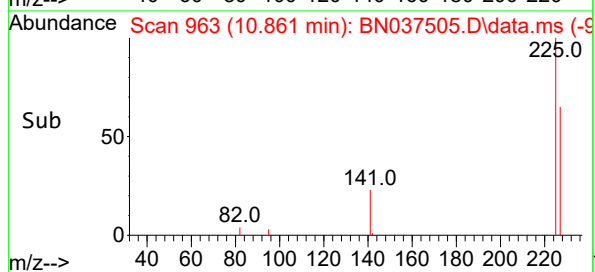
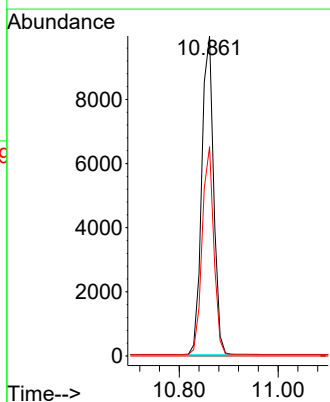
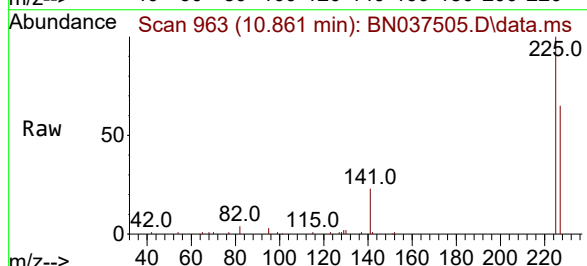
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

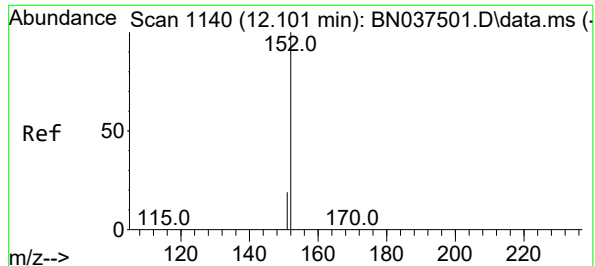
Tgt Ion:128 Resp: 75946
Ion Ratio Lower Upper
128 100
129 11.0 9.7 14.5
127 13.5 11.5 17.3



#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

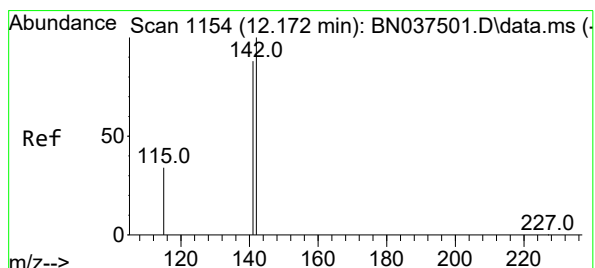
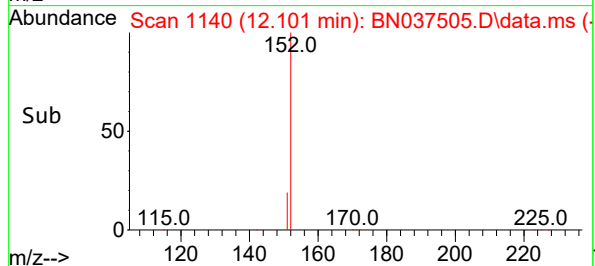
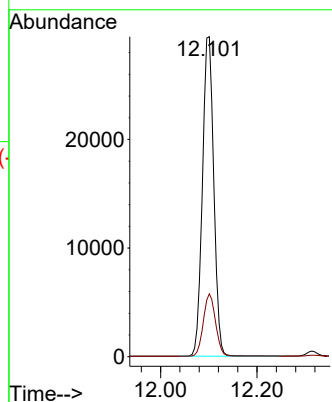
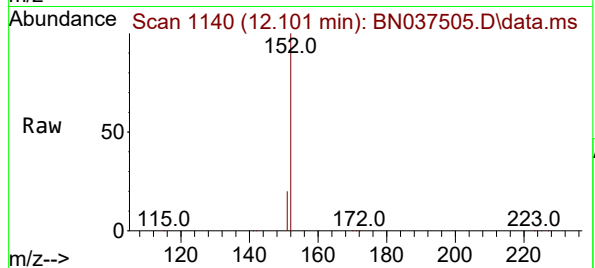




#11
2-Methylnaphthalene-d10
Concen: 6.198 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

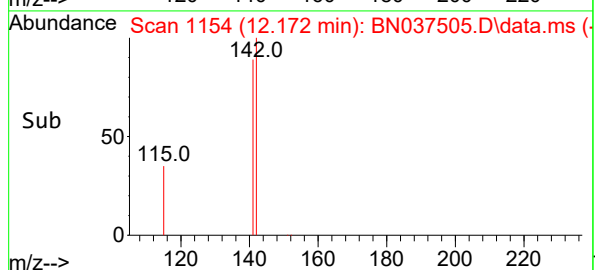
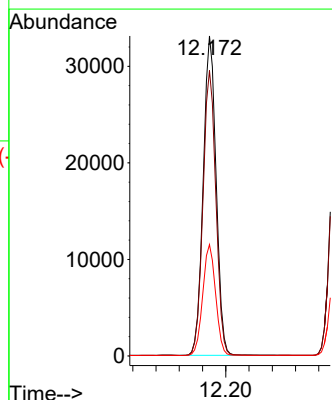
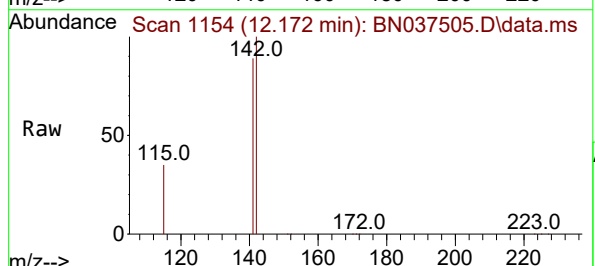
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

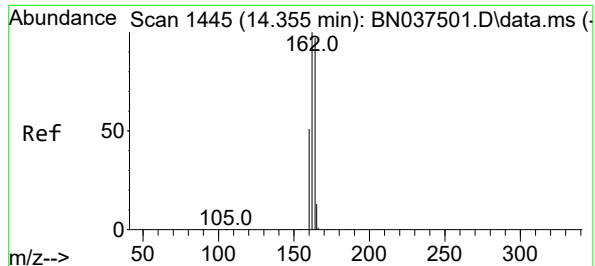
Tgt Ion:152 Resp: 47958
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#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

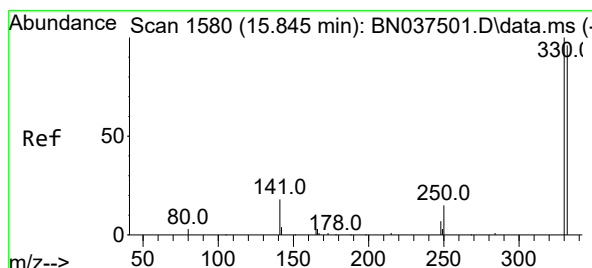
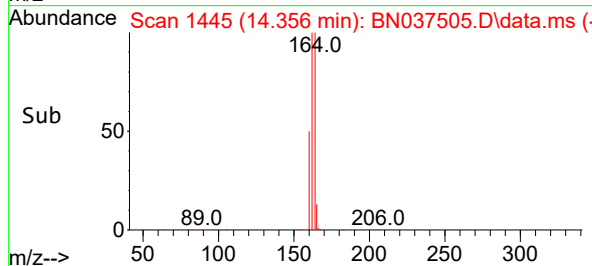
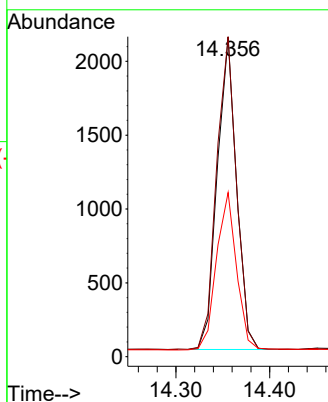
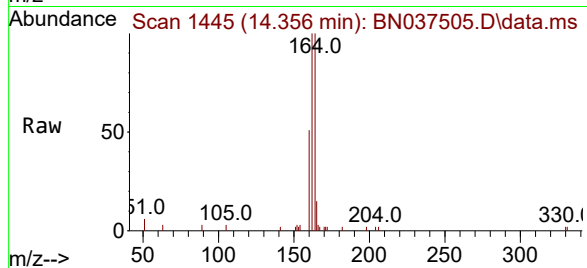
Tgt Ion:164 Resp: 3026

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

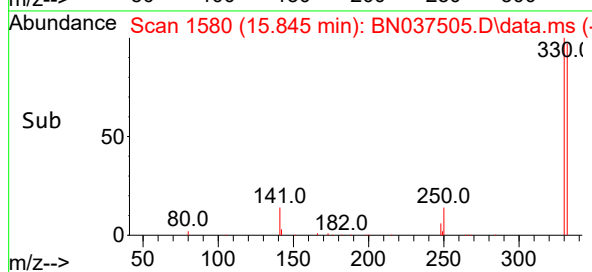
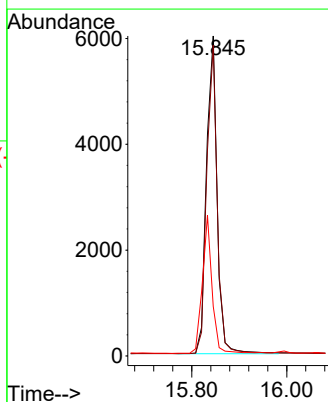
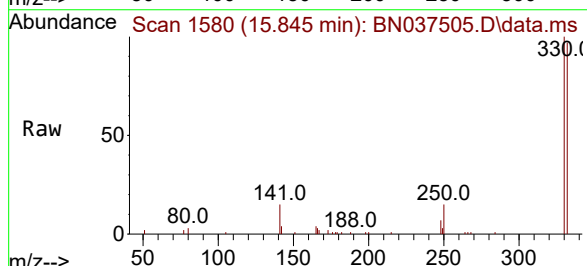
Tgt Ion:330 Resp: 9399

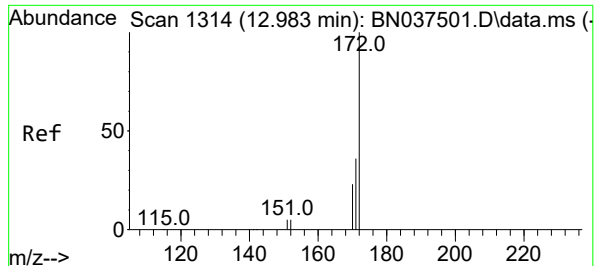
Ion Ratio Lower Upper

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

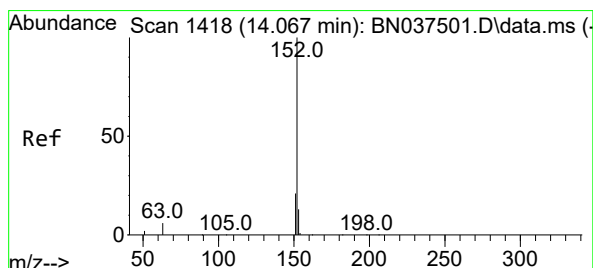
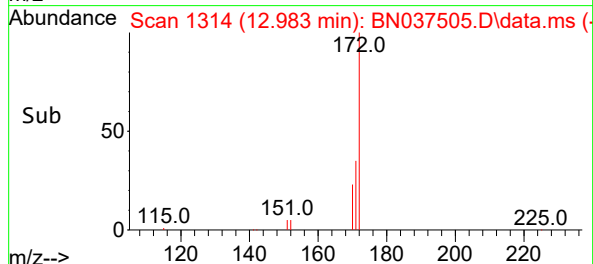
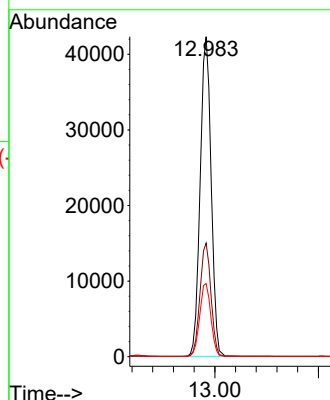
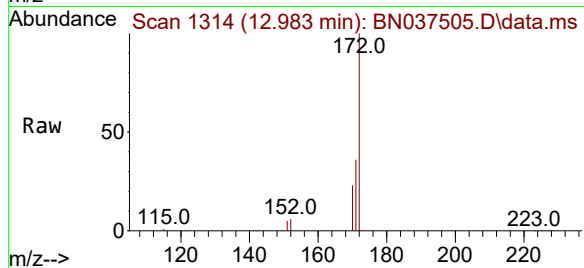
Tgt Ion:172 Resp: 90652

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

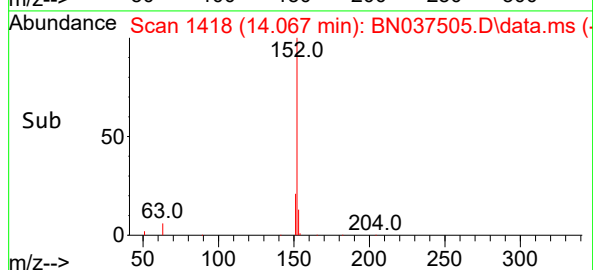
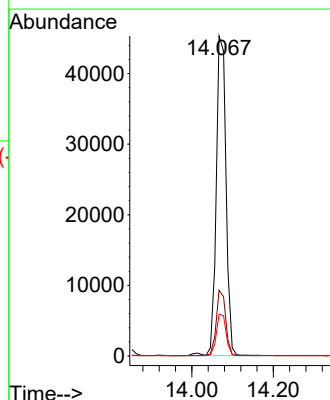
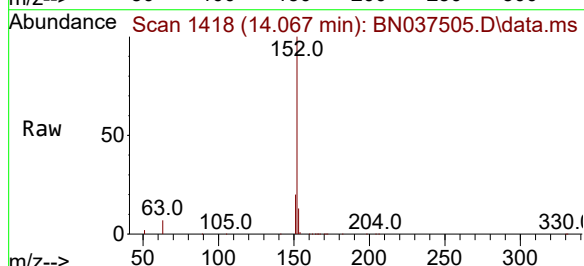
Tgt Ion:152 Resp: 74932

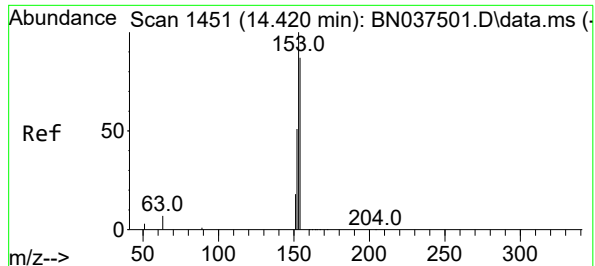
Ion Ratio Lower Upper

152 100

151 19.7 15.9 23.9

153 13.0 10.7 16.1

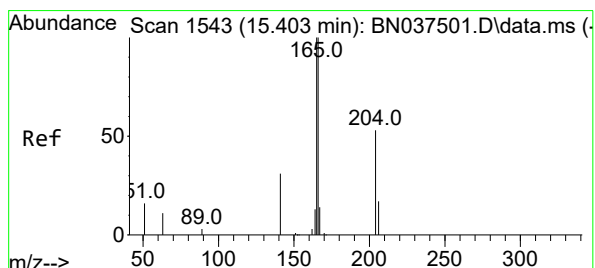
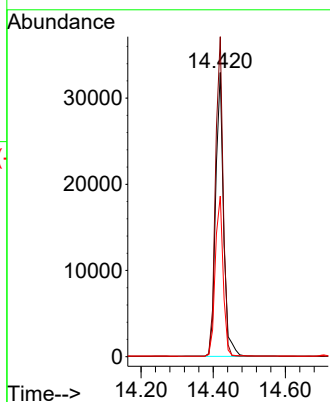
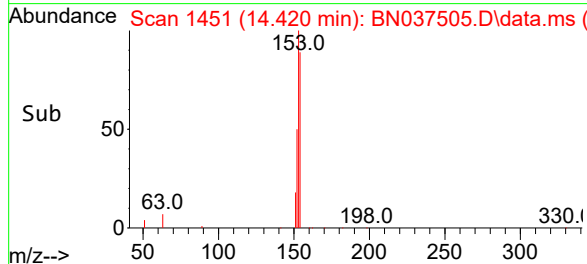
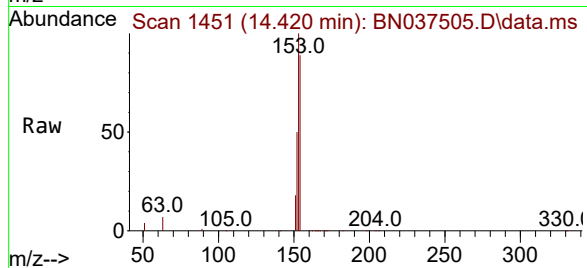




#17
Acenaphthene
Concen: 5.417 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

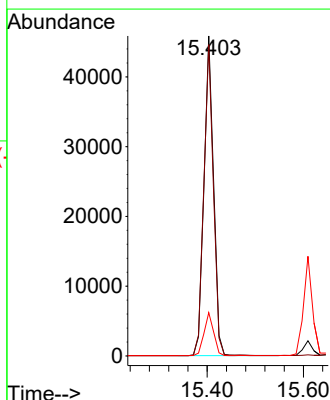
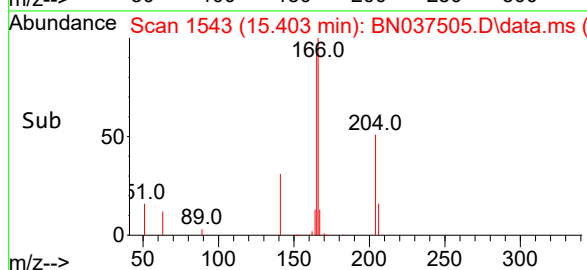
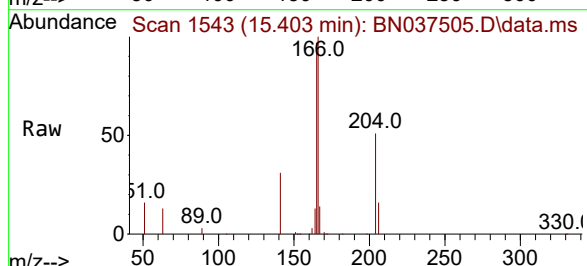
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

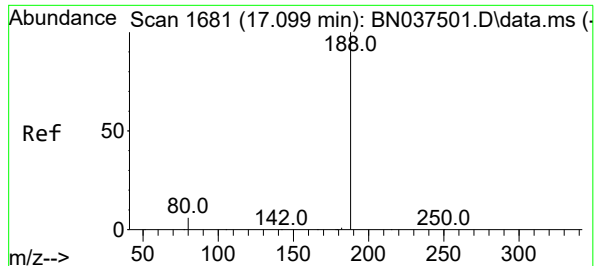
Tgt Ion:154 Resp: 49935
Ion Ratio Lower Upper
154 100
153 108.5 89.2 133.8
152 56.3 48.0 72.0



#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

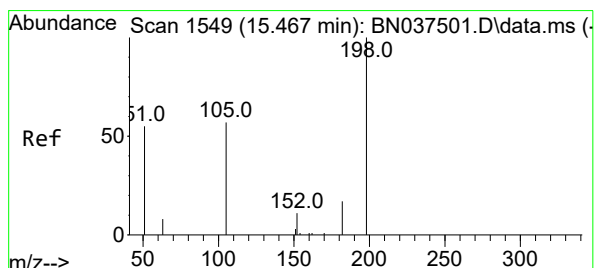
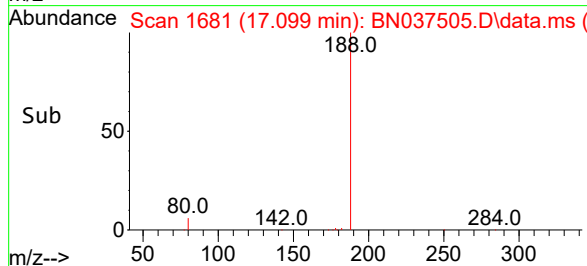
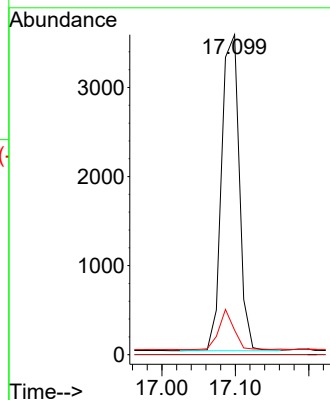
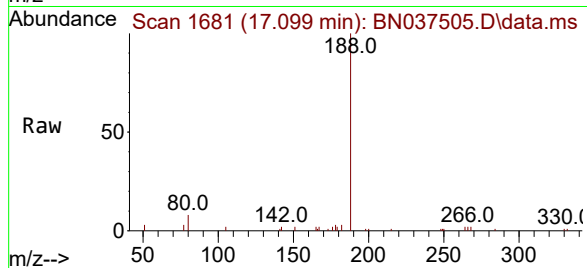
Tgt Ion:188 Resp: 5918

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

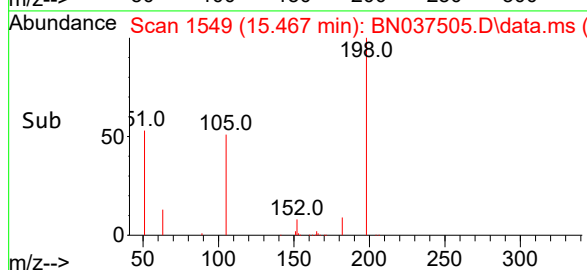
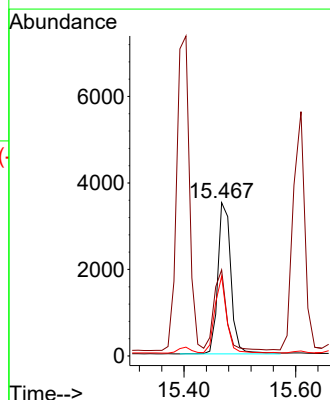
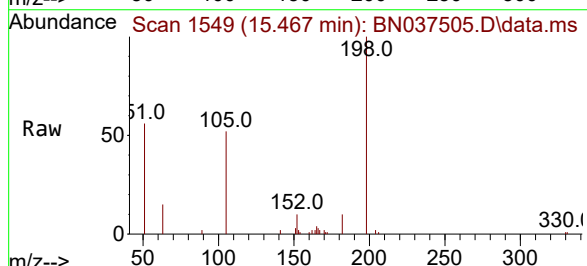
Tgt Ion:198 Resp: 5939

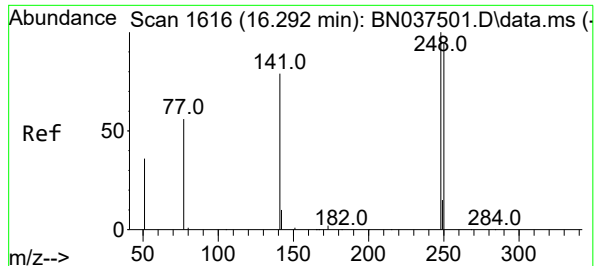
Ion Ratio Lower Upper

198 100

51 56.1 88.5 132.7#

105 52.0 61.2 91.8#

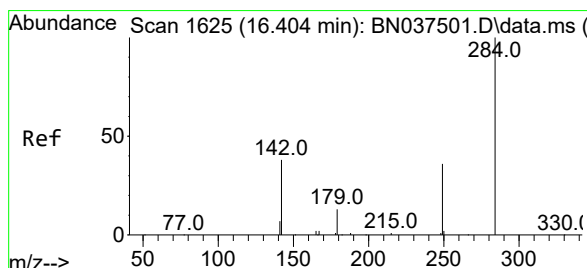
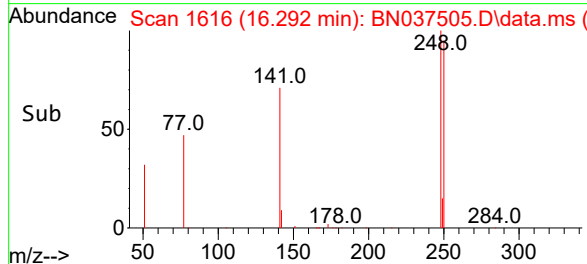
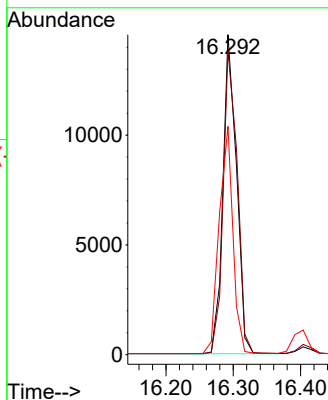
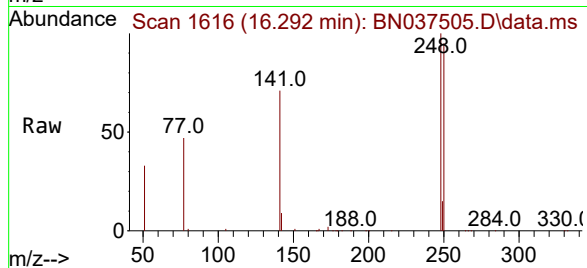




#21
4-Bromophenyl-phenylether
Concen: 5.344 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

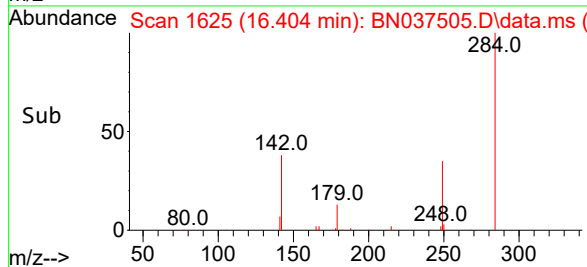
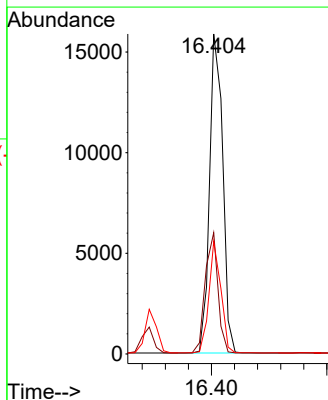
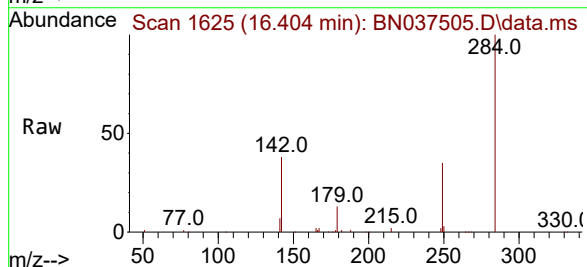
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

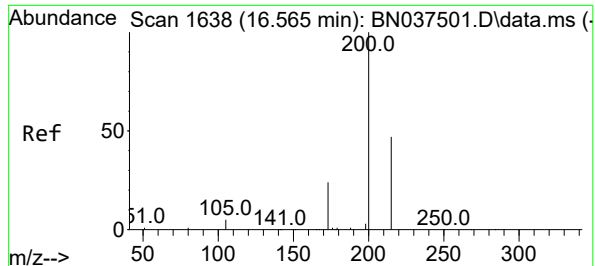
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.0	76.2	114.2
141	71.4	63.9	95.9



#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	Ratio	Lower	Upper
284	100		
142	36.4	28.9	43.3
249	31.8	25.8	38.6

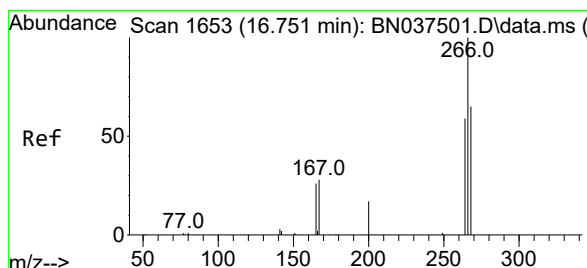
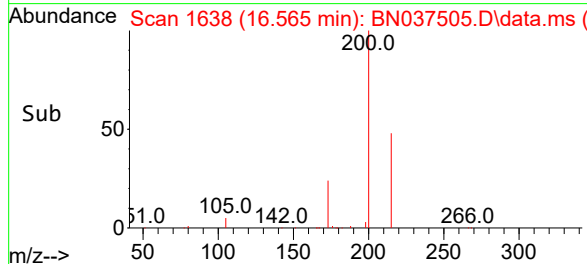
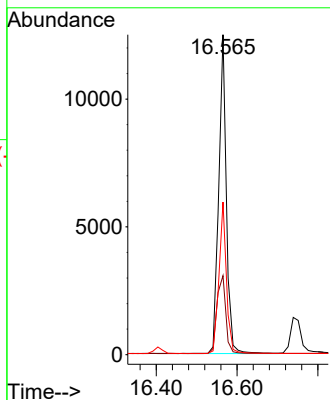
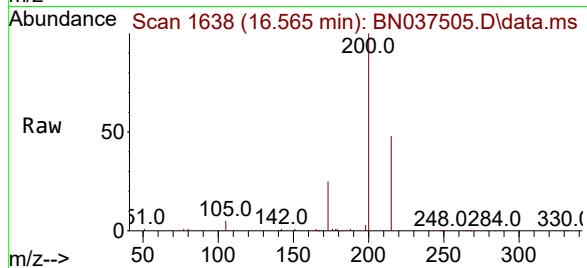




#23
Atrazine
Concen: 6.150 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

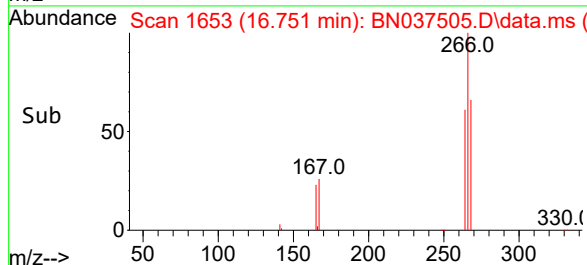
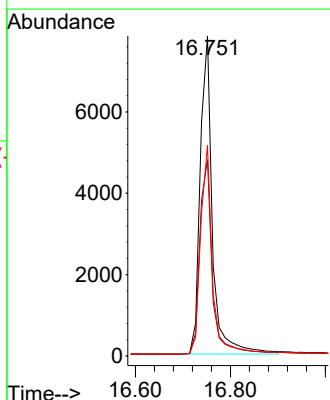
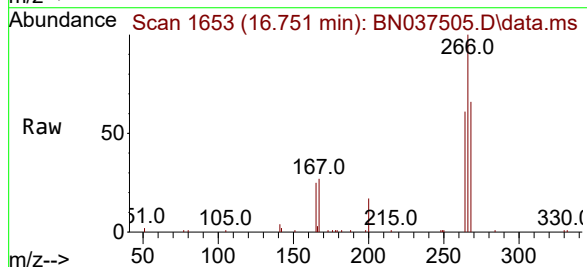
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

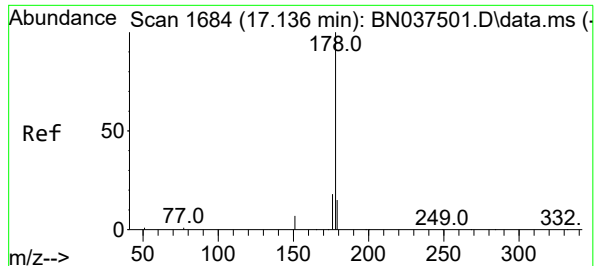
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.7	23.2	34.8
215	47.7	40.2	60.4



#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	Ratio	Lower	Upper
266	100		
264	62.8	49.3	73.9
268	64.0	51.6	77.4

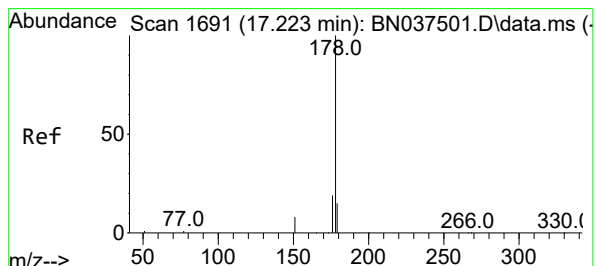
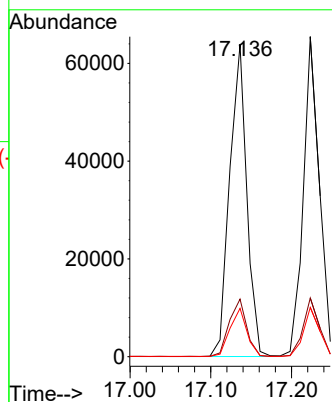
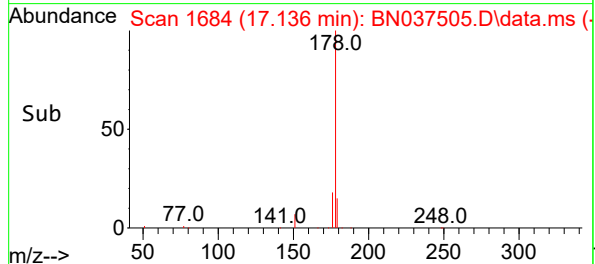
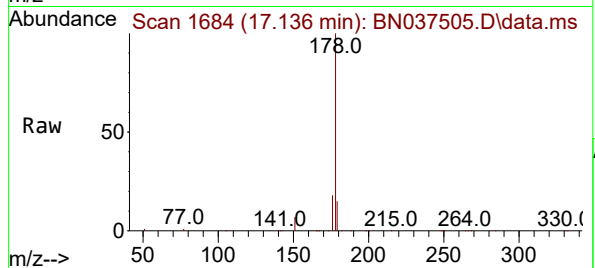




#25
Phenanthrene
Concen: 5.312 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

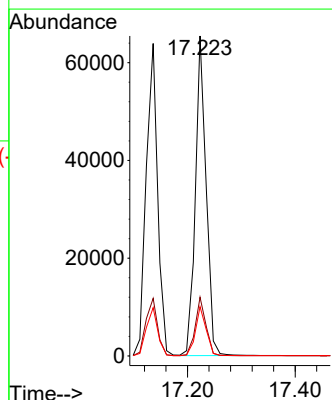
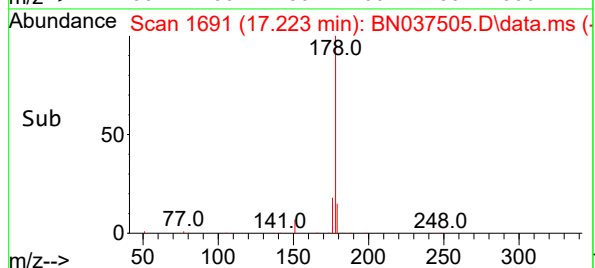
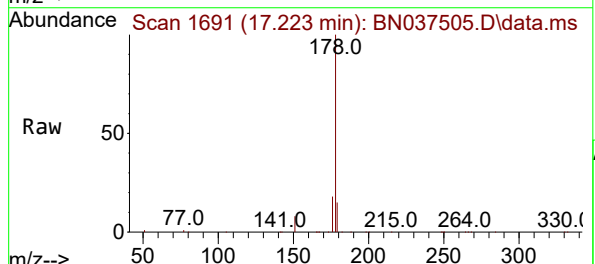
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

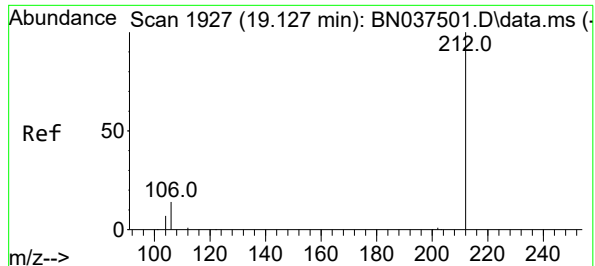
Tgt Ion:178 Resp: 94181
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.3 12.2 18.2



#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

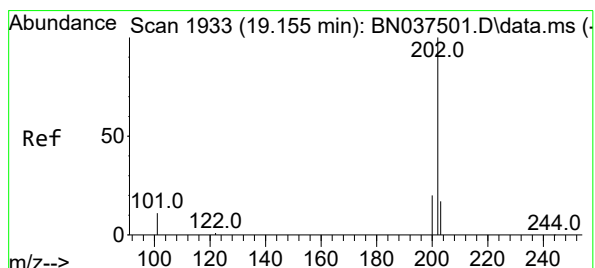
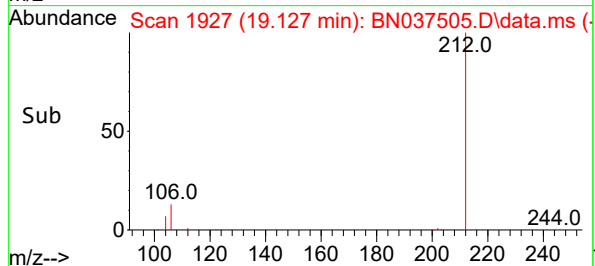
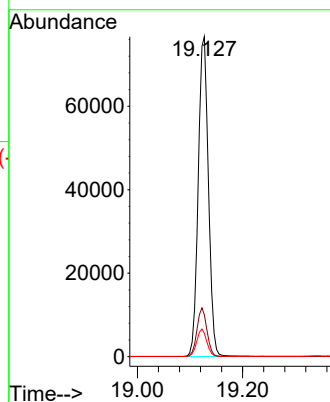
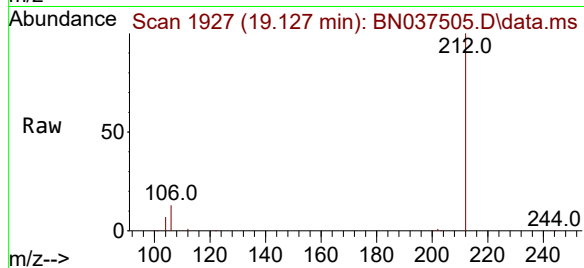
Tgt Ion:212 Resp: 102473

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

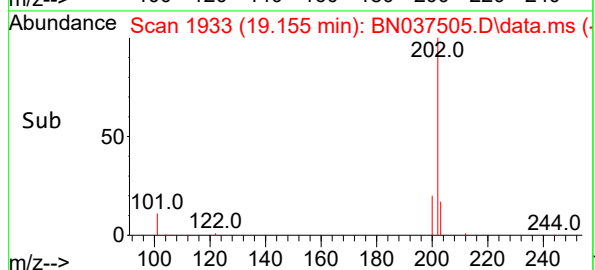
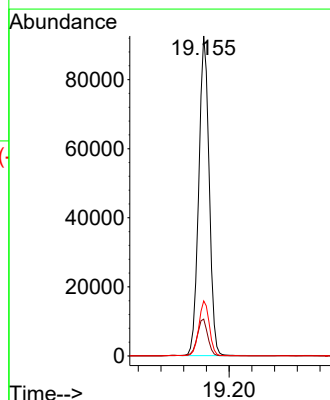
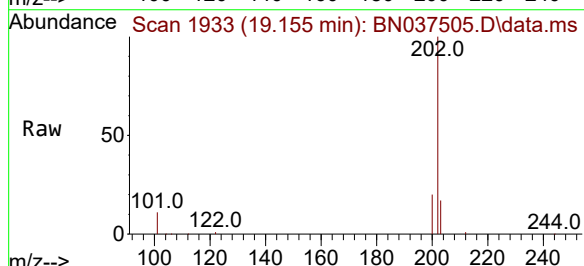
Tgt Ion:202 Resp: 117280

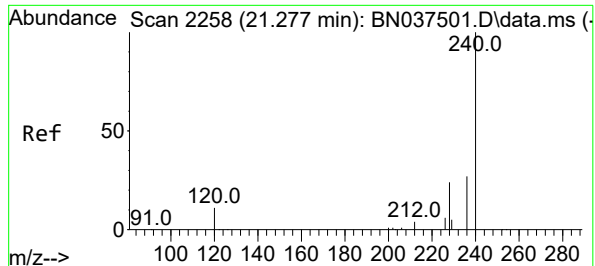
Ion Ratio Lower Upper

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

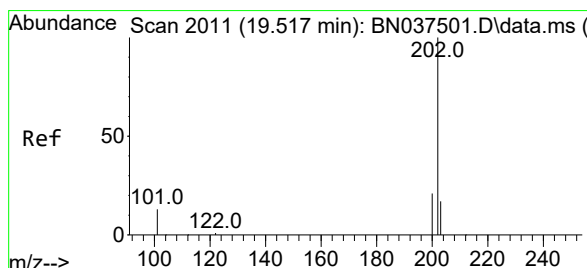
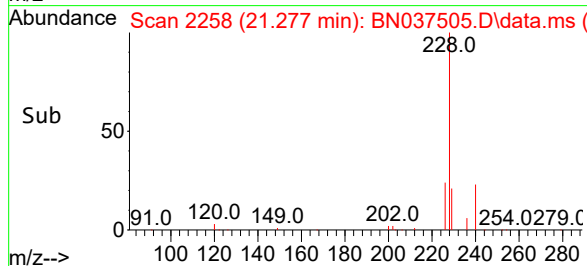
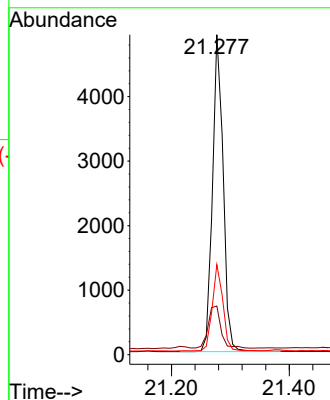
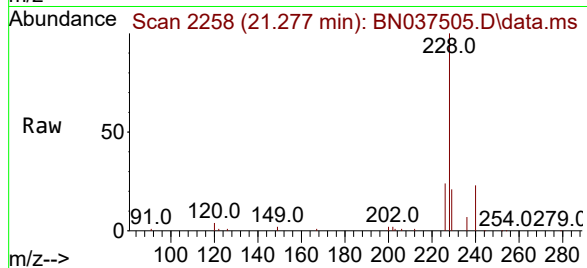
Tgt Ion:240 Resp: 6176

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

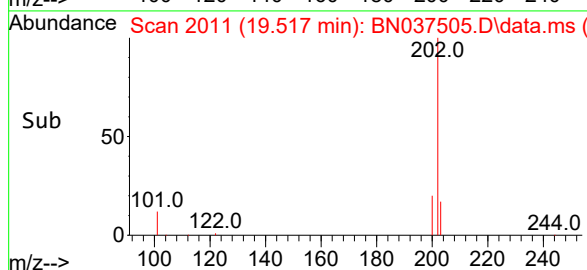
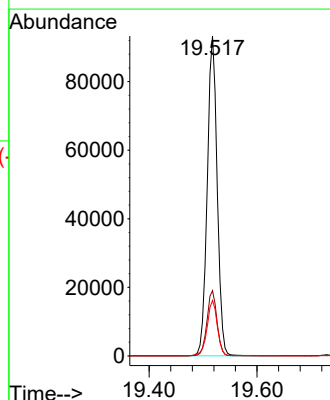
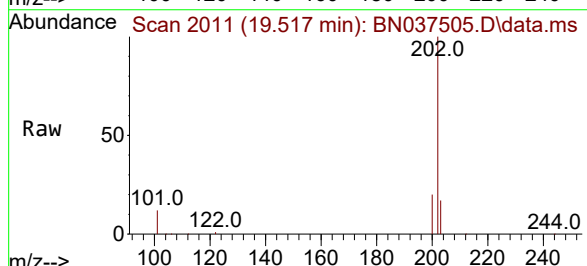
Tgt Ion:202 Resp: 118804

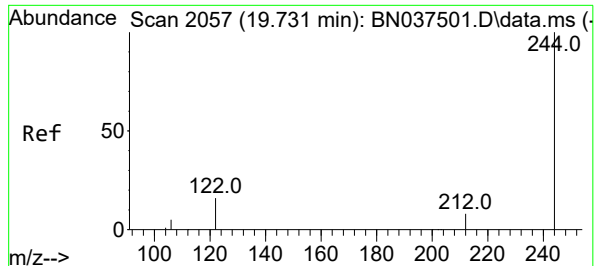
Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

203 17.8 14.3 21.5

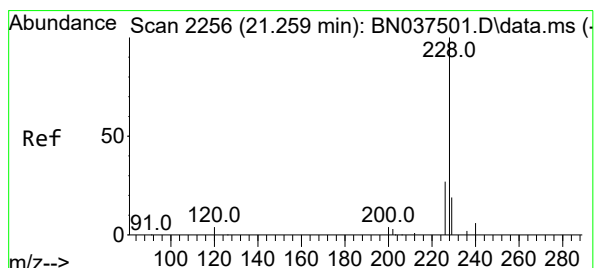
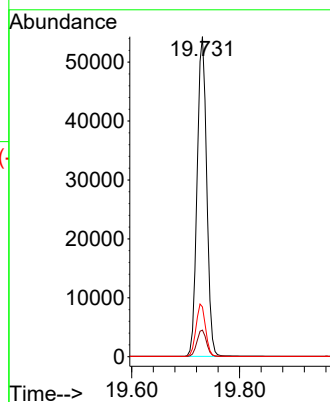
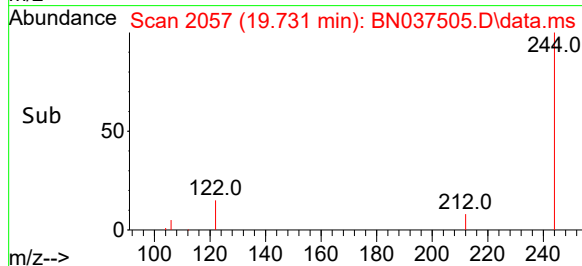
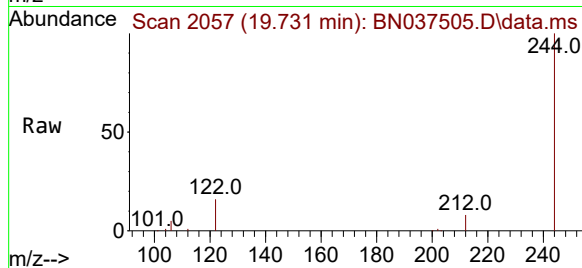




#31
Terphenyl-d14
Concen: 5.031 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

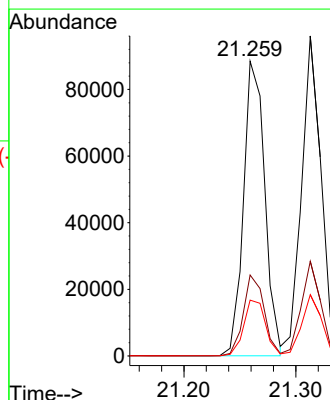
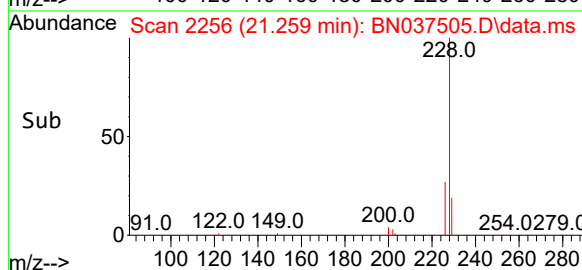
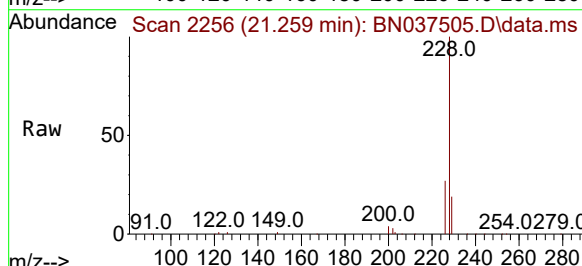
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

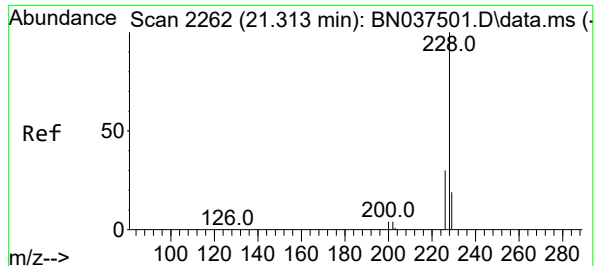
Tgt Ion:244 Resp: 66764
Ion Ratio Lower Upper
244 100
212 8.3 7.4 11.2
122 15.6 13.6 20.4



#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

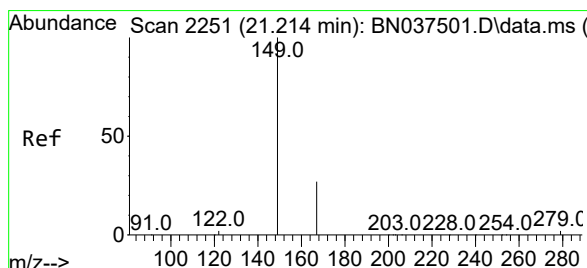
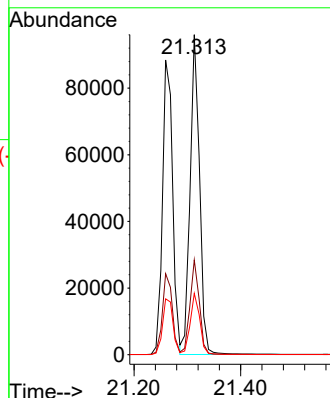
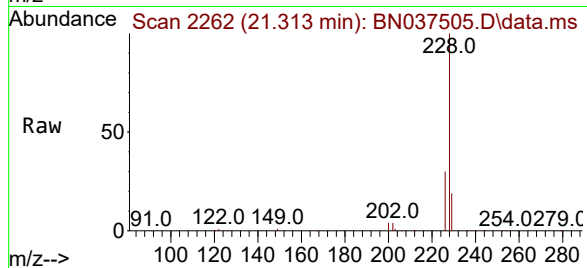
Tgt Ion:228 Resp: 117985

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

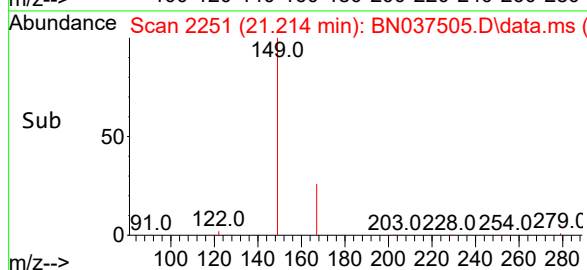
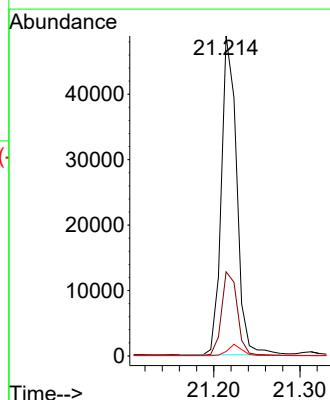
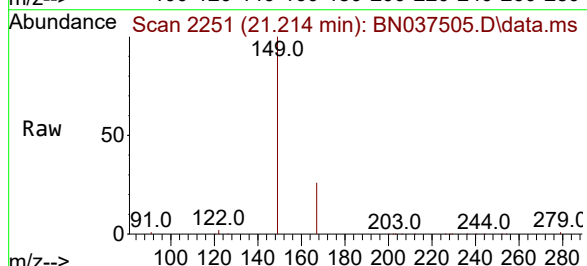
Tgt Ion:149 Resp: 60154

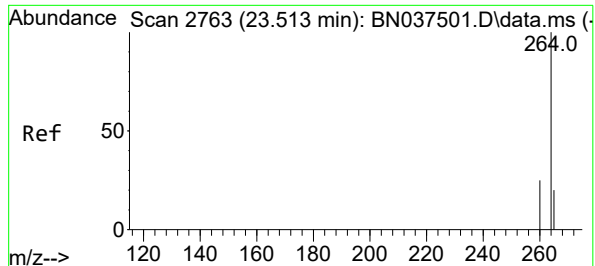
Ion Ratio Lower Upper

149 100

167 26.9 21.8 32.8

279 3.2 3.0 4.4

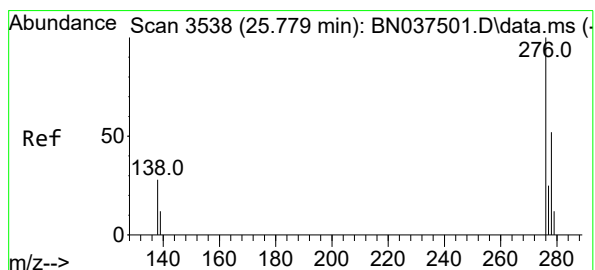
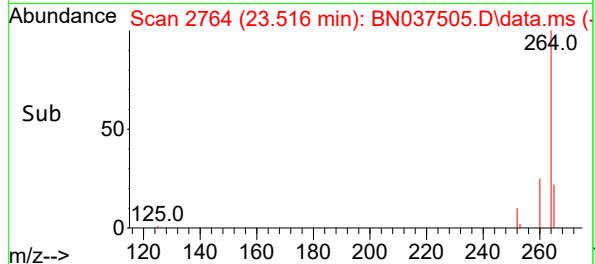
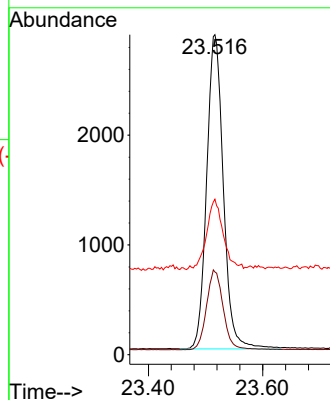
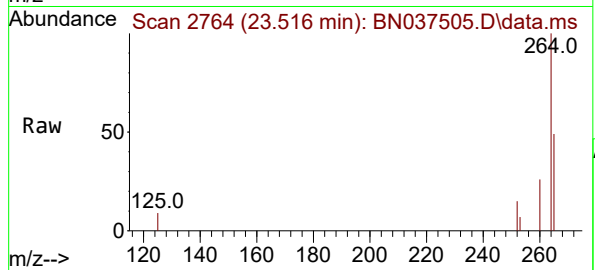




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

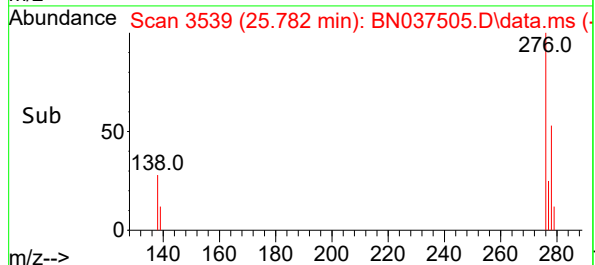
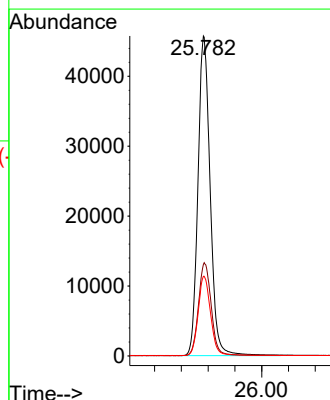
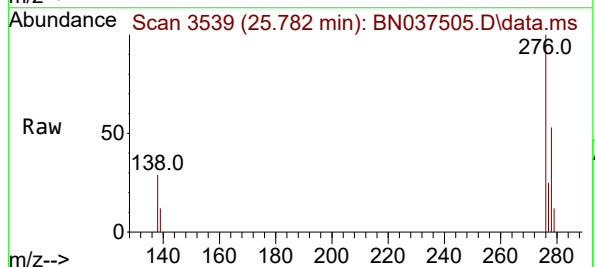
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

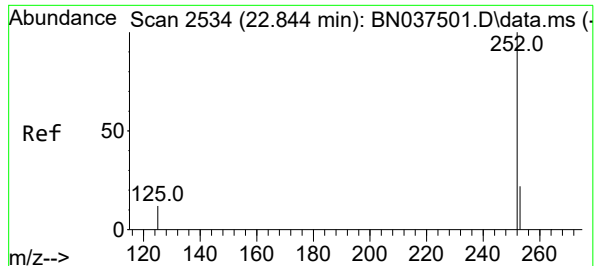
Tgt Ion:264 Resp: 5810
Ion Ratio Lower Upper
264 100
260 25.9 21.2 31.8
265 48.6 40.4 60.6



#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

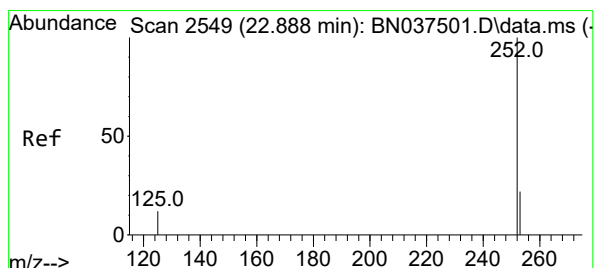
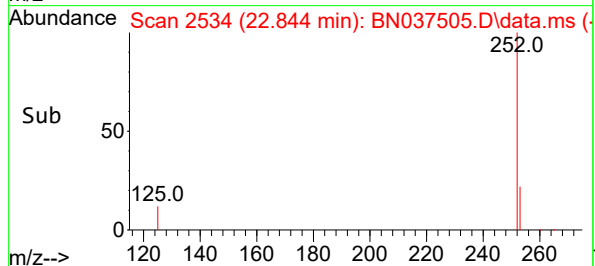
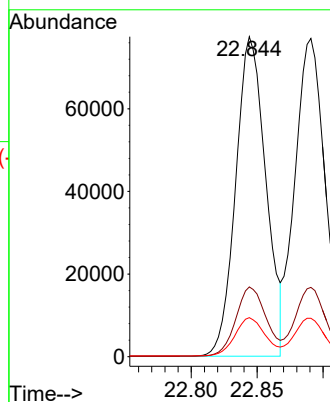
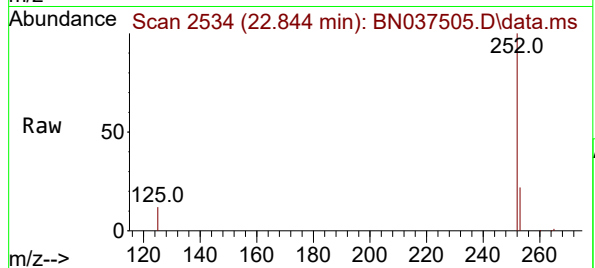
Tgt Ion:252 Resp: 122848

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

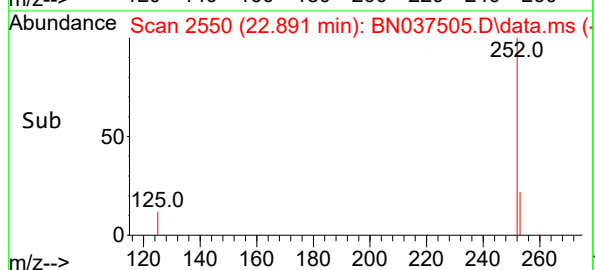
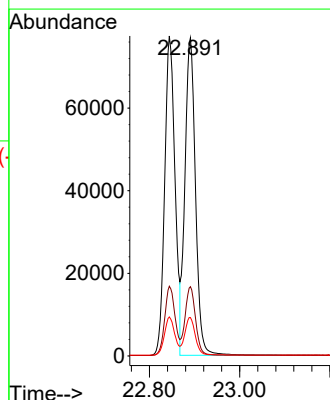
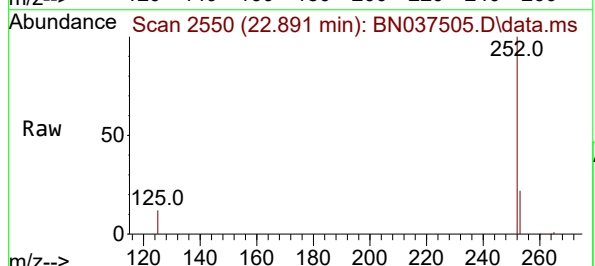
Tgt Ion:252 Resp: 125226

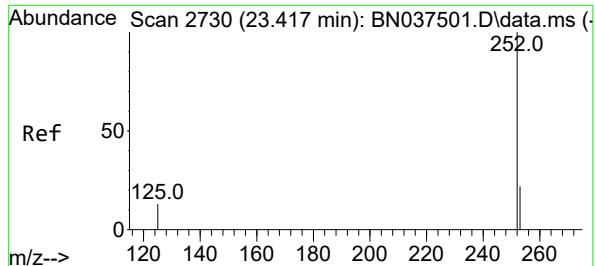
Ion Ratio Lower Upper

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

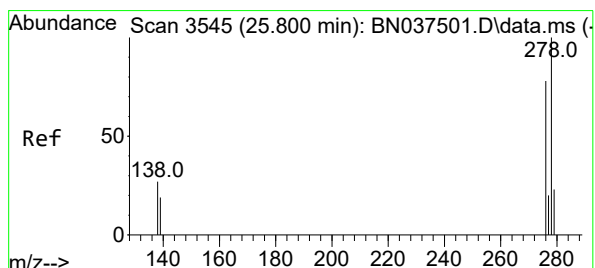
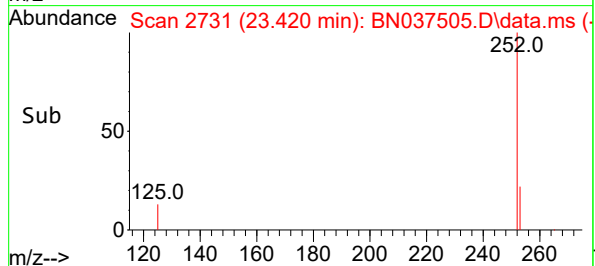
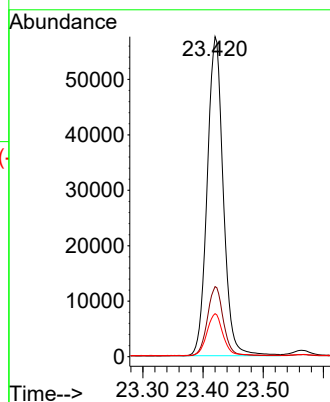
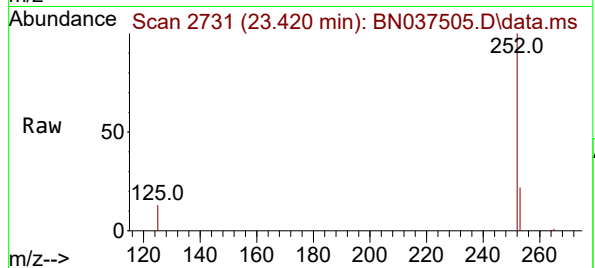
Tgt Ion:252 Resp: 106654

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

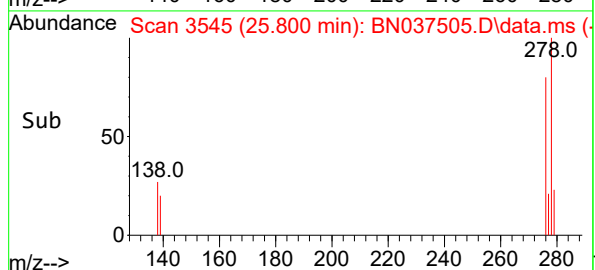
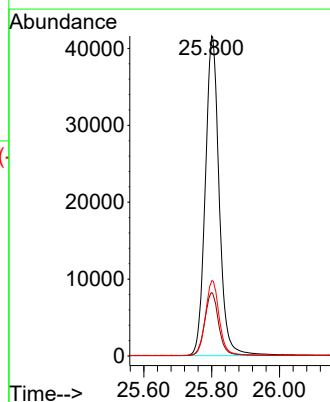
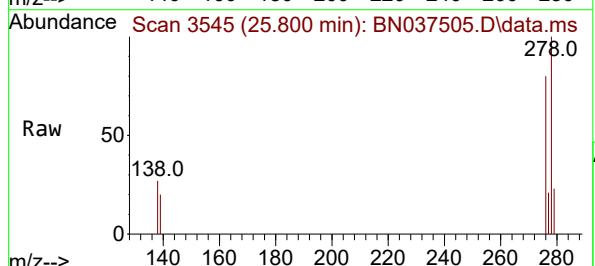
Tgt Ion:278 Resp: 118164

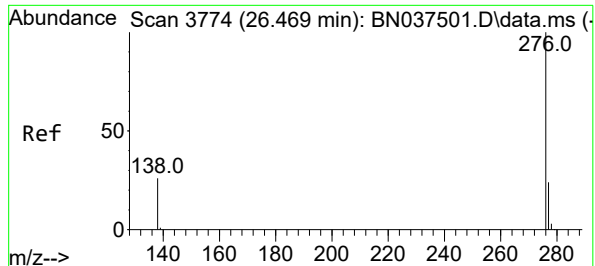
Ion Ratio Lower Upper

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

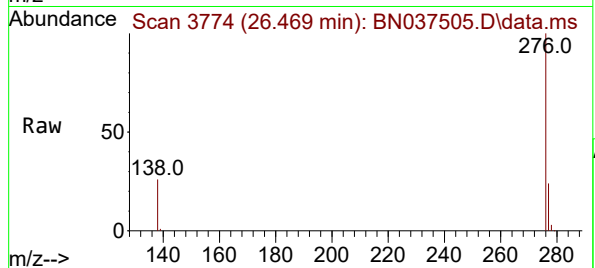
Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



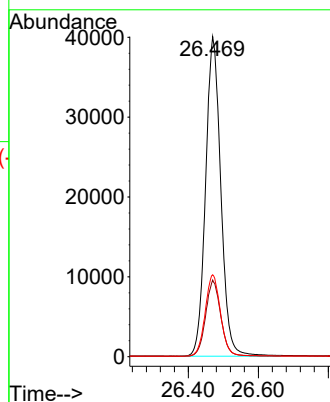
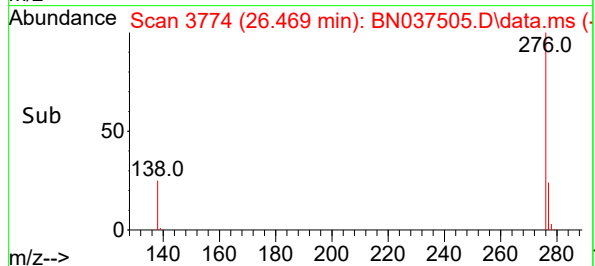
Tgt Ion:276 Resp: 120757

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)

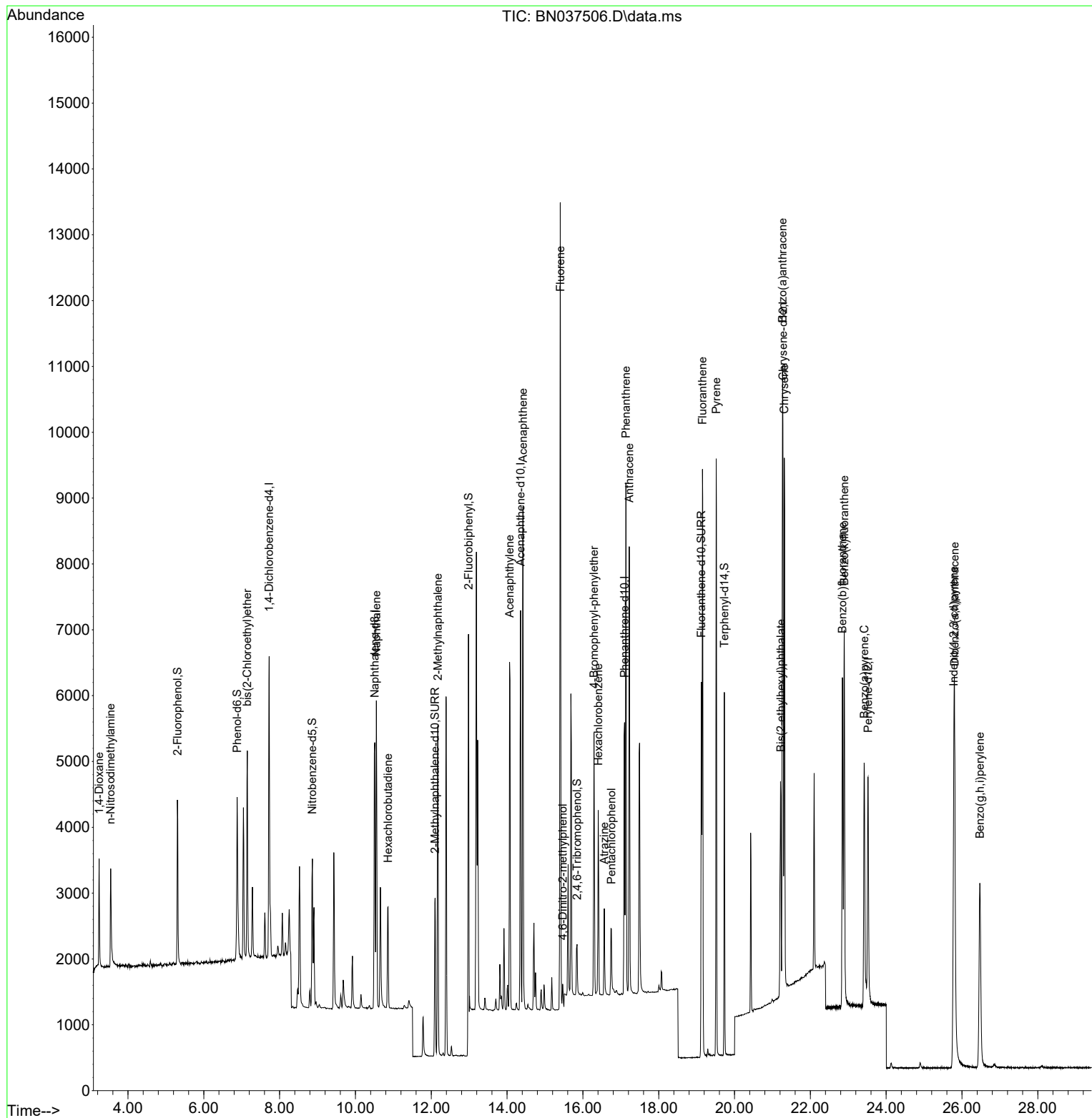
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2236	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5813	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3335	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6334	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5040	0.400	ng	# 0.00
35) Perylene-d12	23.522	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						
						Qvalue
2) 1,4-Dioxane	3.239	88	1011	0.470	ng	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

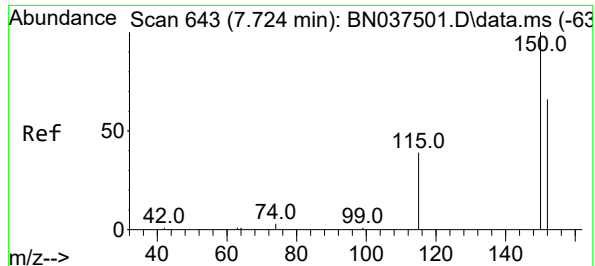
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

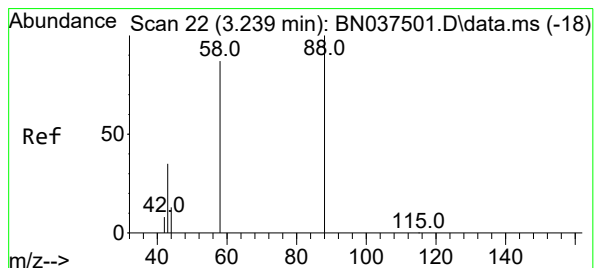
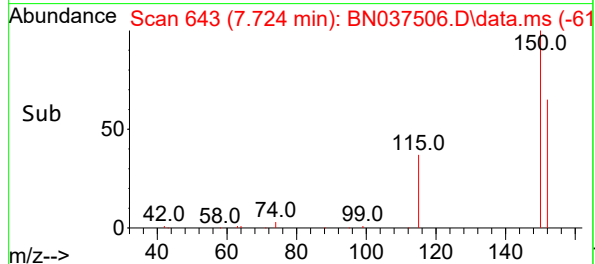
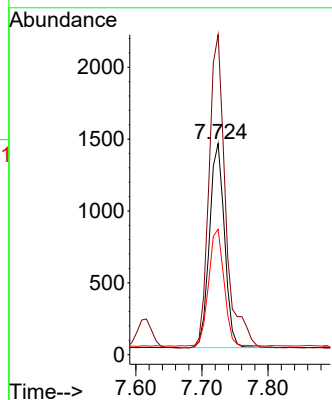
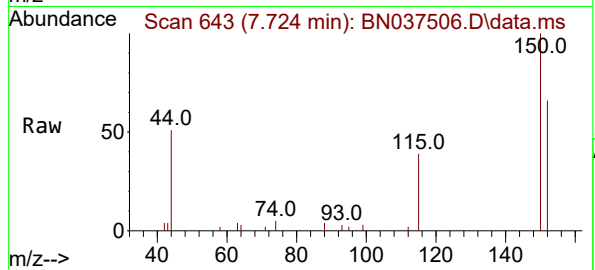




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

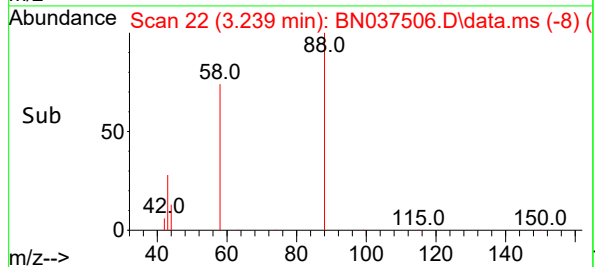
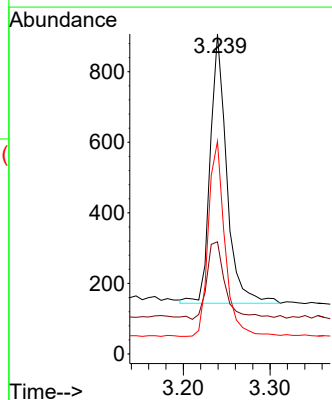
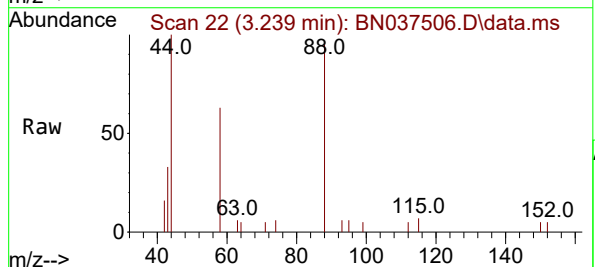
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

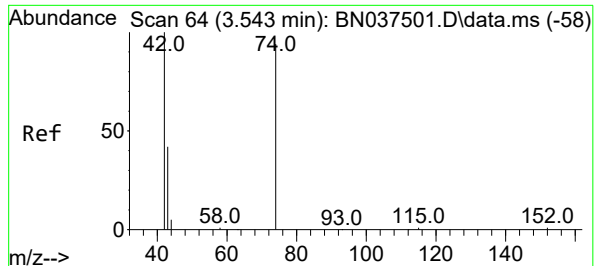
Tgt Ion:152 Resp: 2236
Ion Ratio Lower Upper
152 100
150 151.5 119.8 179.8
115 59.4 49.1 73.7



#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

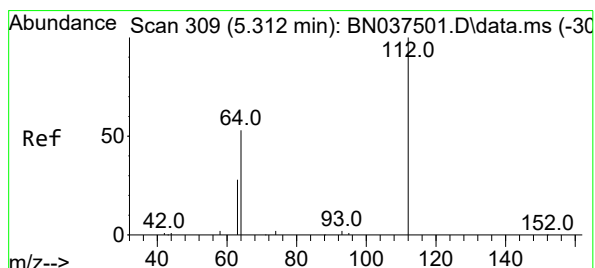
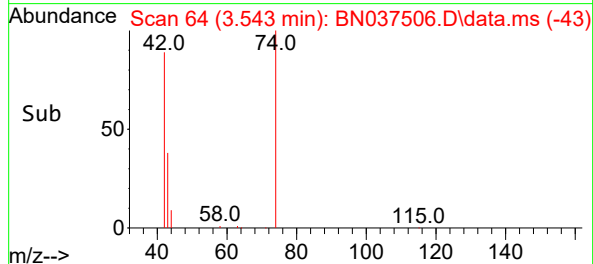
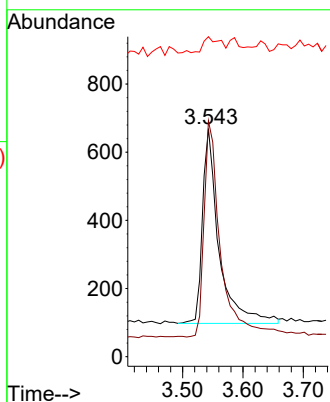
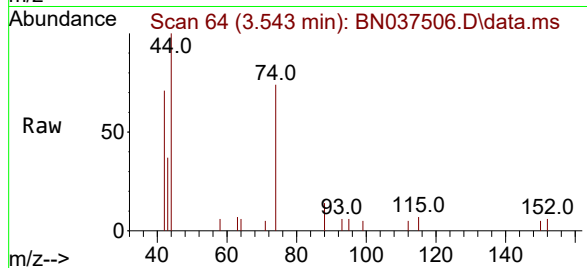




#3
n-Nitrosodimethylamine
Concen: 0.401 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

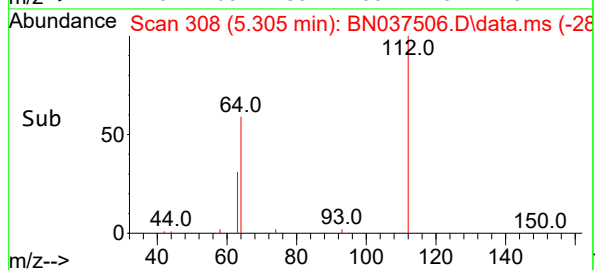
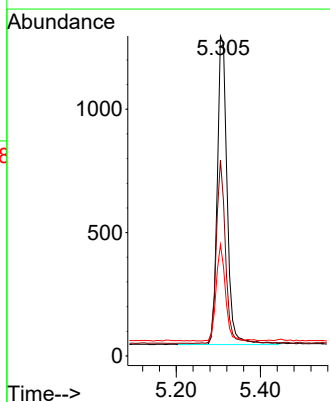
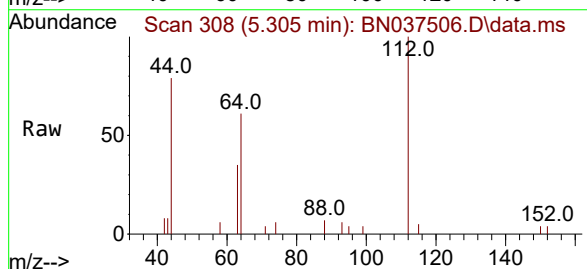
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

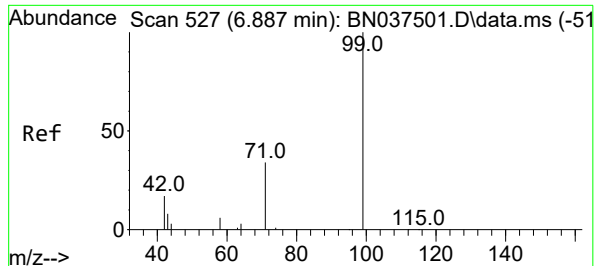
Tgt Ion: 42 Resp: 1083
Ion Ratio Lower Upper
42 100
74 112.8 91.8 137.6
44 8.5 15.0 22.6#



#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

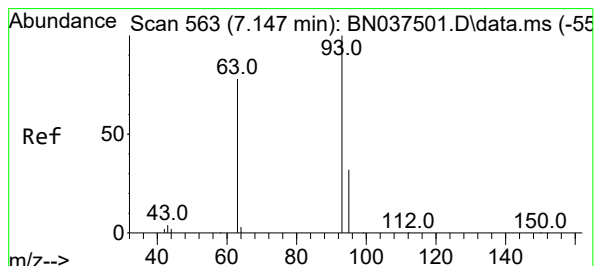
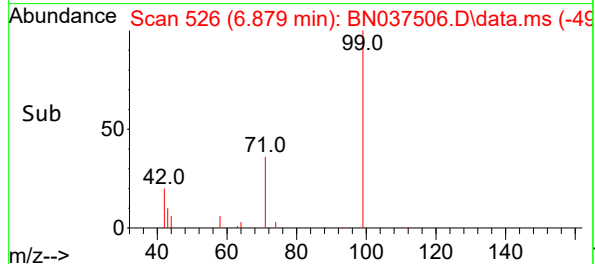
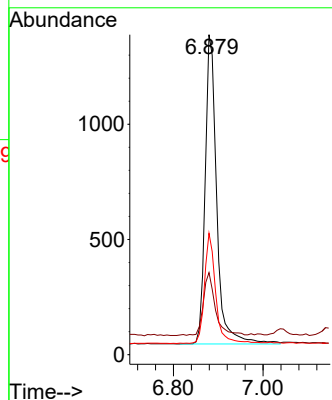
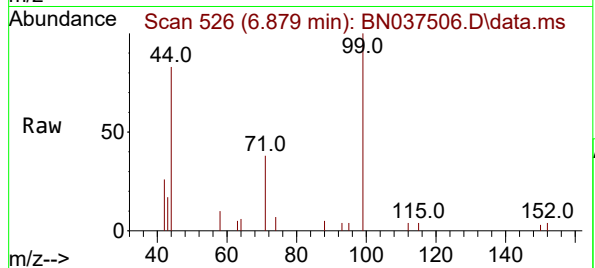




#5
Phenol-d6
Concen: 0.347 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

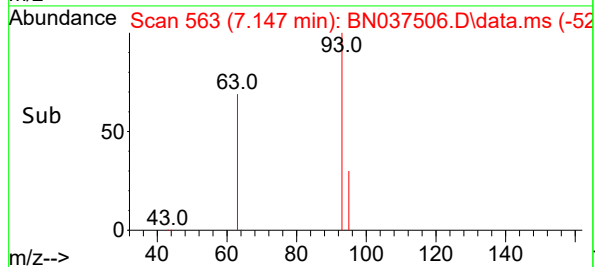
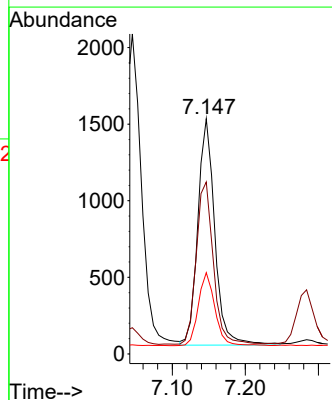
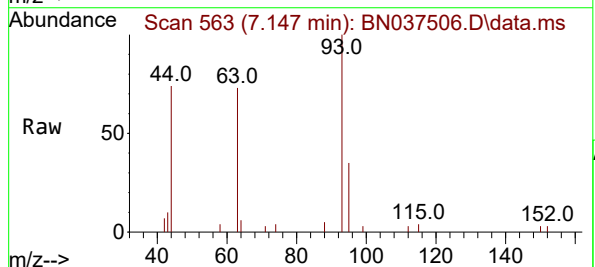
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

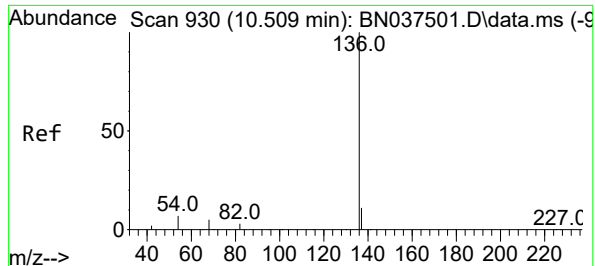
Tgt Ion: 99 Resp: 2407
Ion Ratio Lower Upper
99 100
42 20.7 17.1 25.7
71 34.6 27.8 41.8



#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

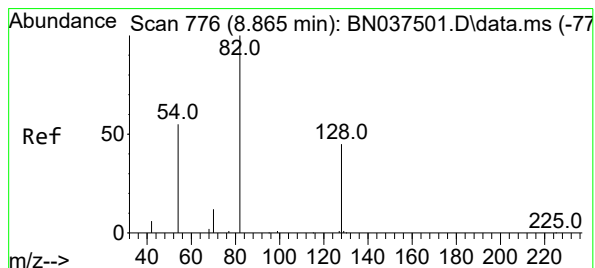
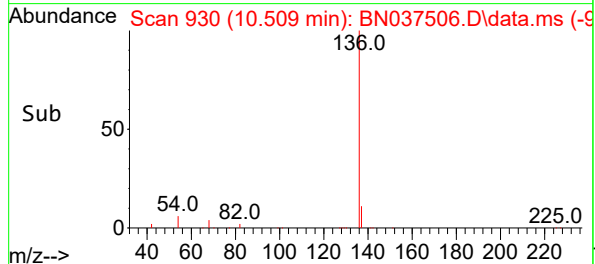
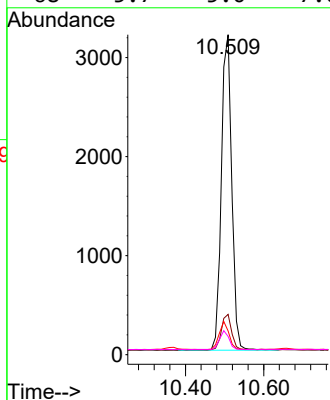
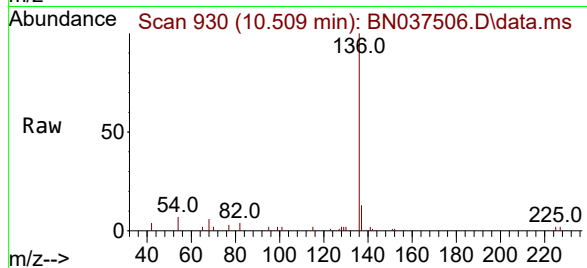




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

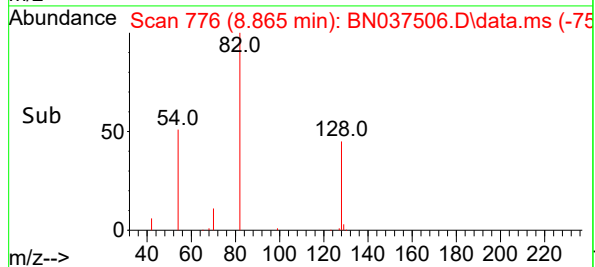
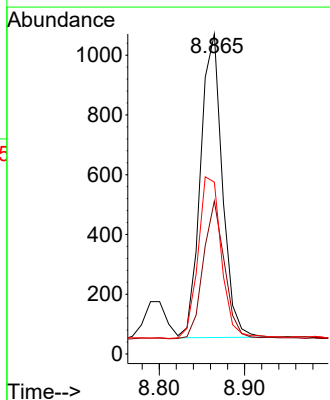
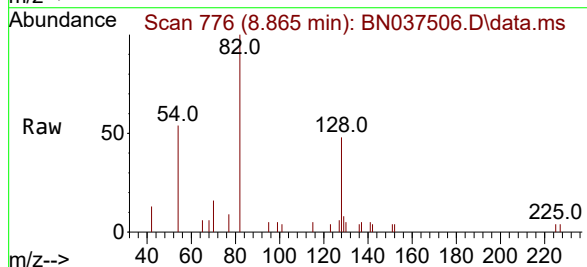
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

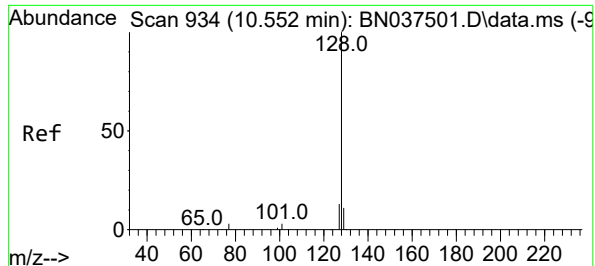
Tgt Ion:	136	Resp:	5813
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.8	14.8
54	7.4	6.6	9.8
68	5.7	5.0	7.6



#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

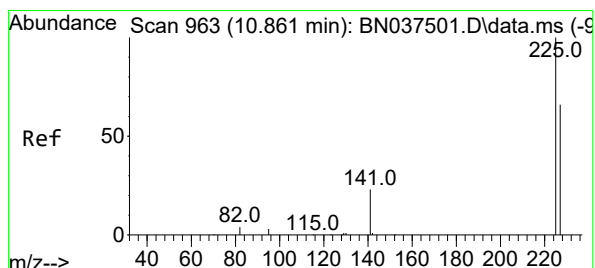
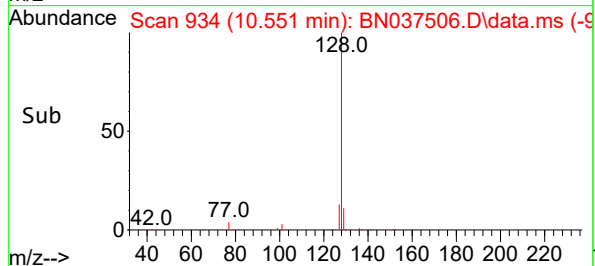
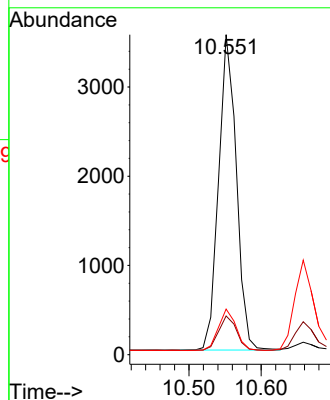
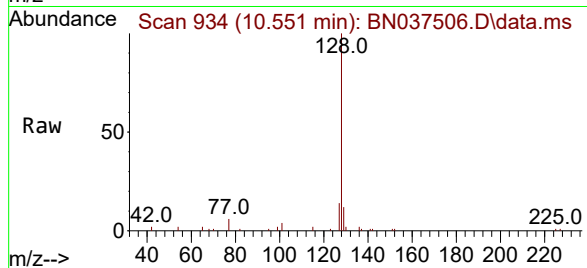
Tgt Ion:128 Resp: 6033

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

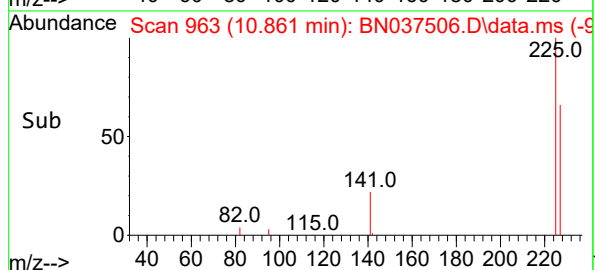
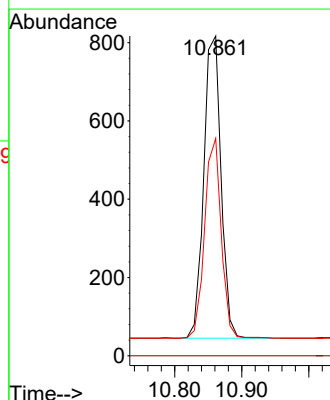
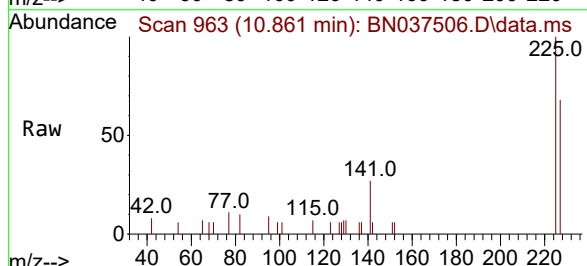
Tgt Ion:225 Resp: 1386

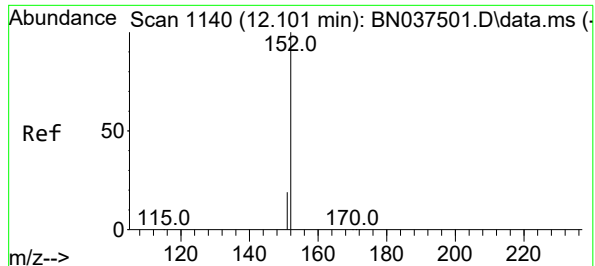
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.2 51.0 76.4

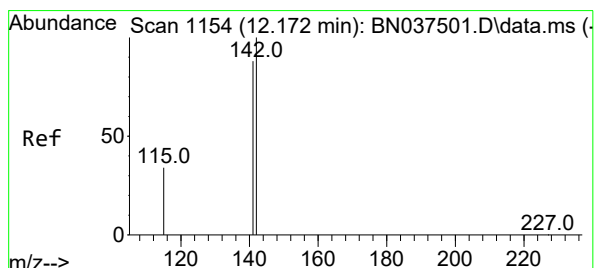
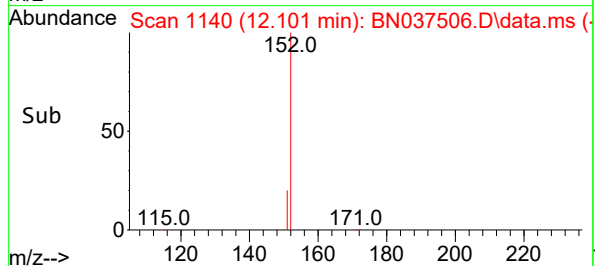
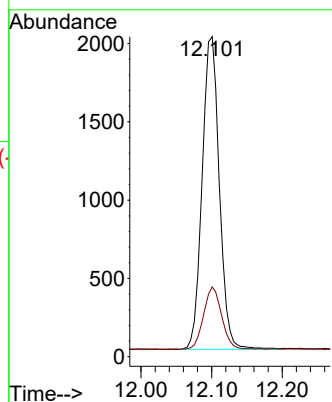
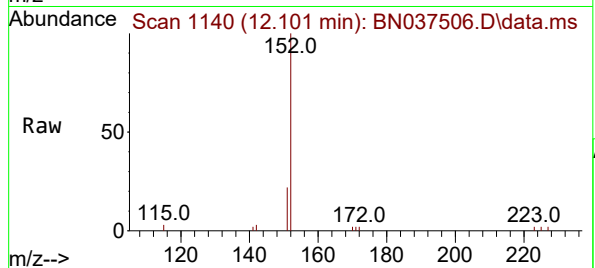




#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

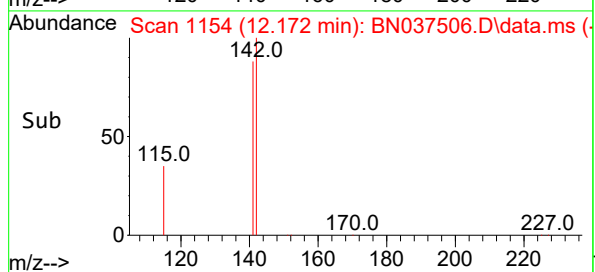
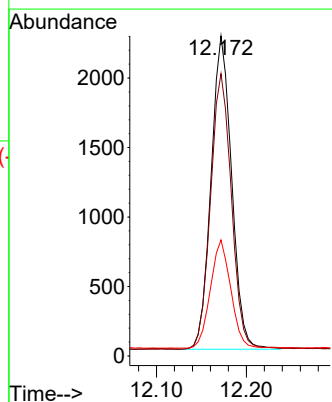
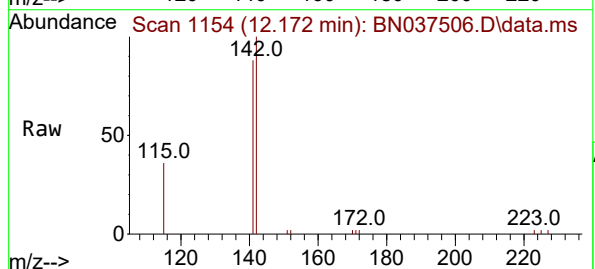
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

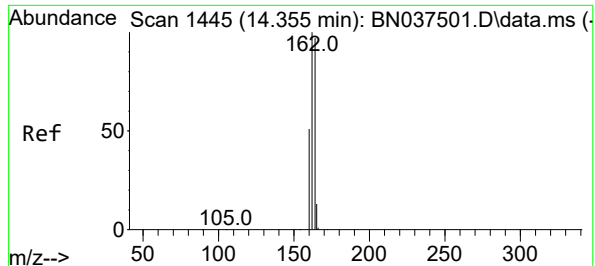
Tgt Ion:152 Resp: 3375
Ion Ratio Lower Upper
152 100
151 21.1 16.8 25.2



#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

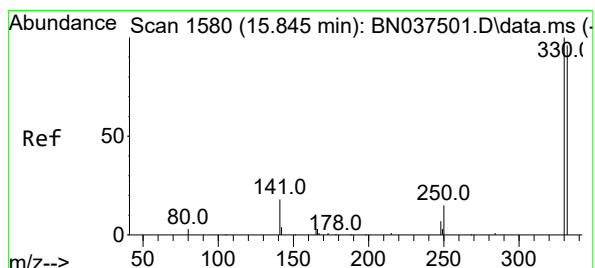
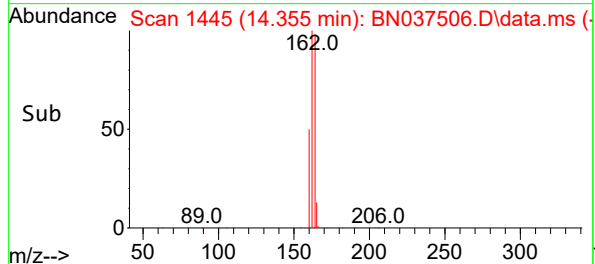
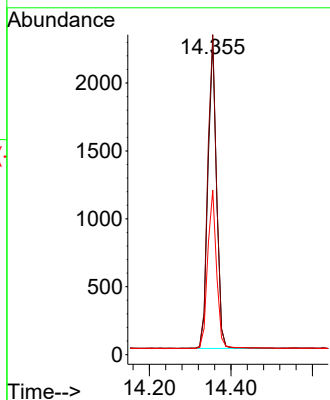
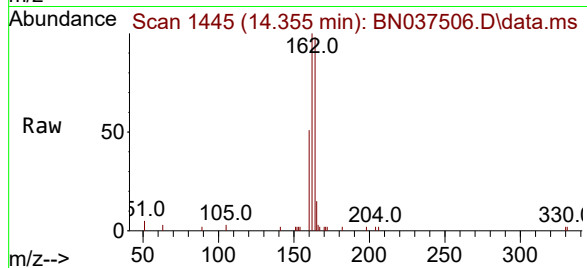




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

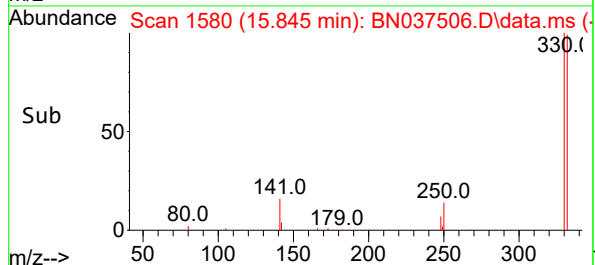
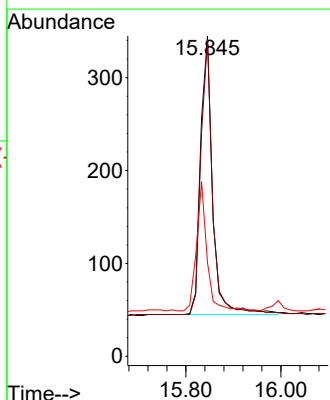
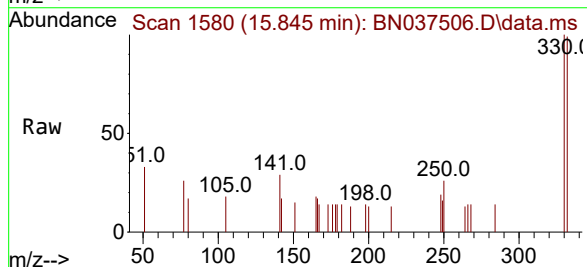
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

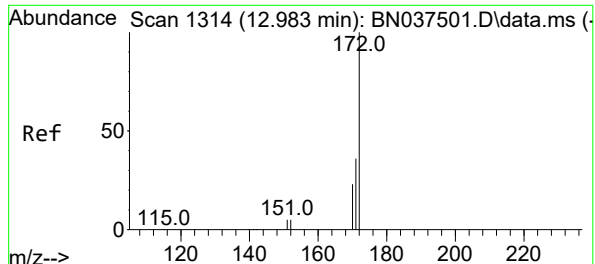
Tgt Ion:164 Resp: 3335
Ion Ratio Lower Upper
164 100
162 101.6 82.0 123.0
160 52.2 42.4 63.6



#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

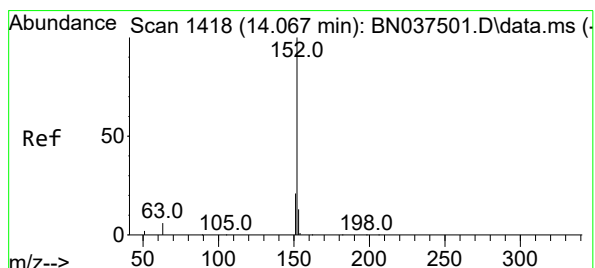
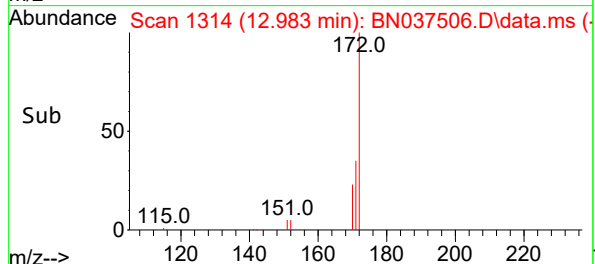
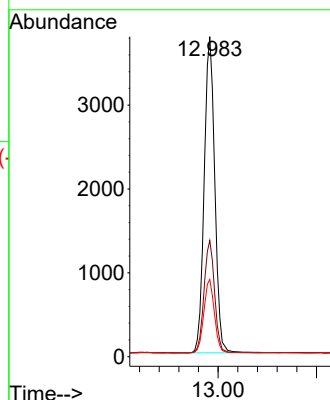
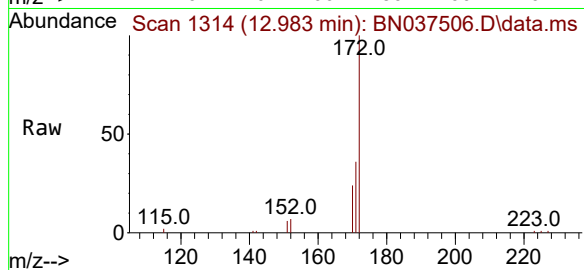
Tgt Ion:172 Resp: 8001

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

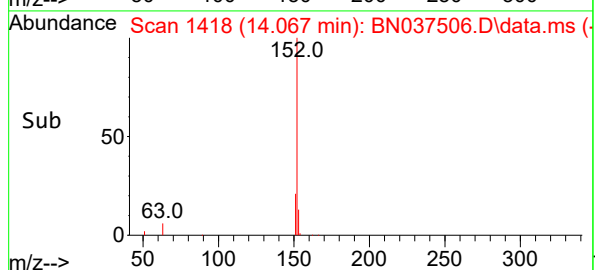
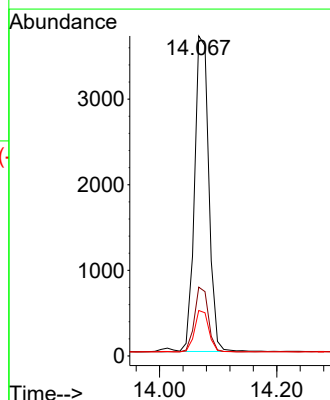
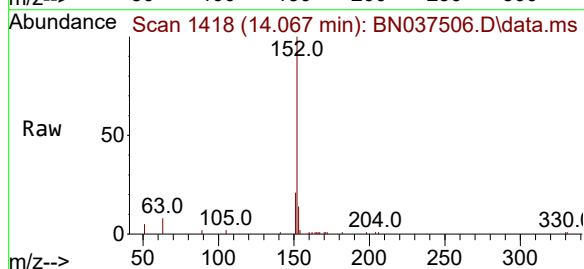
Tgt Ion:152 Resp: 6226

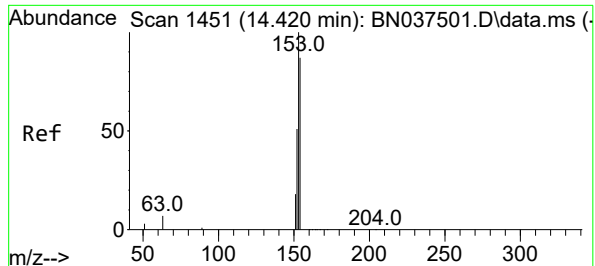
Ion Ratio Lower Upper

152 100

151 20.1 15.9 23.9

153 13.2 10.7 16.1

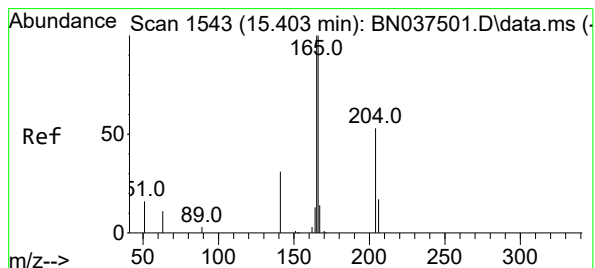
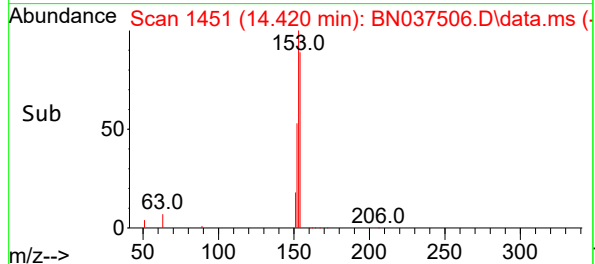
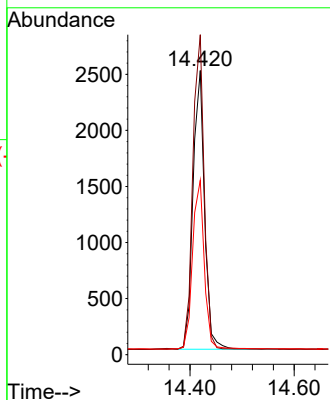
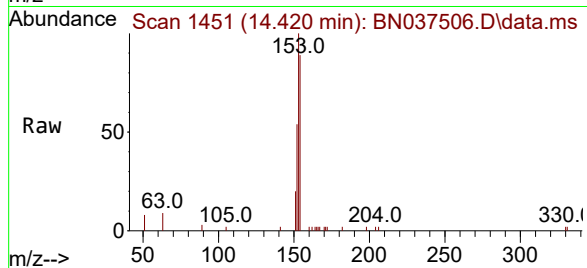




#17
Acenaphthene
Concen: 0.377 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

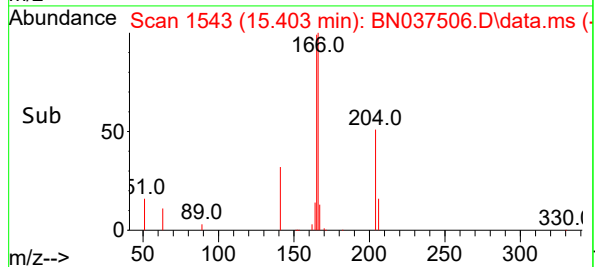
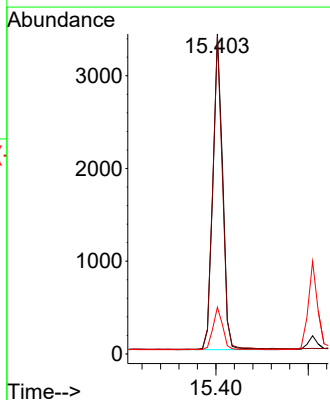
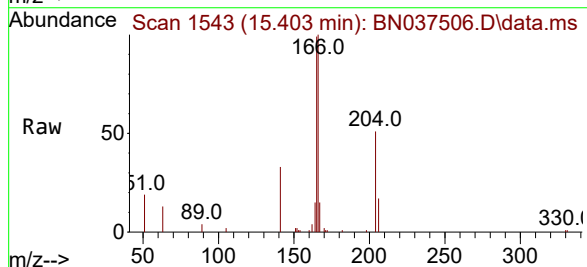
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

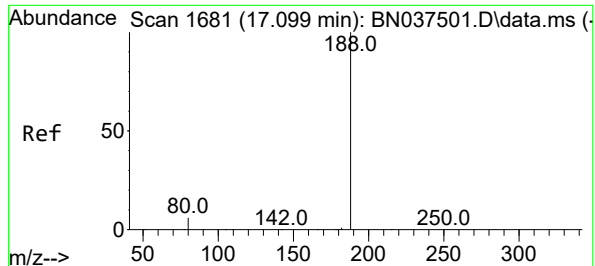
Tgt Ion	Resp	Ion	Ratio	Lower	Upper
154	3826	100			
153	111.6	89.2		133.8	
152	61.6	48.0		72.0	



#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	Resp	Ion	Ratio	Lower	Upper
166	5028	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

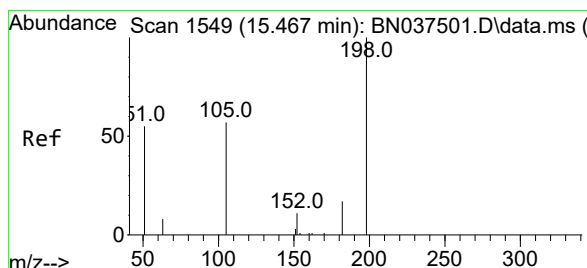
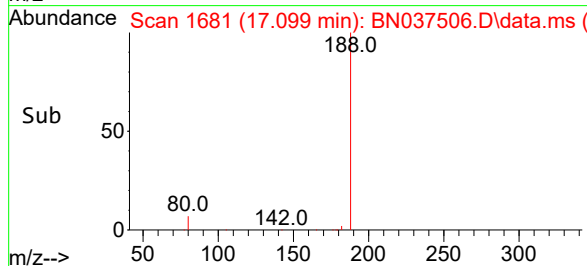
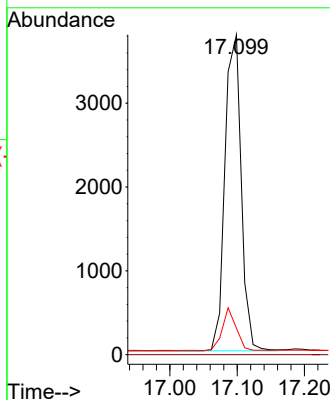
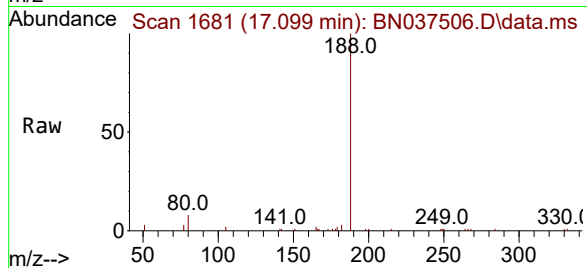
Tgt Ion:188 Resp: 6334

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

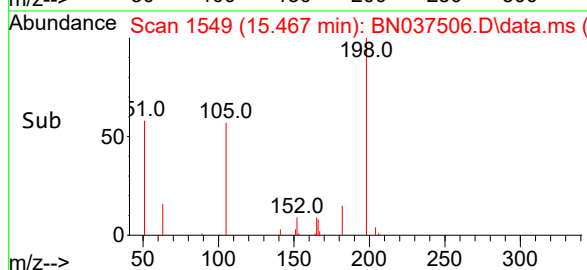
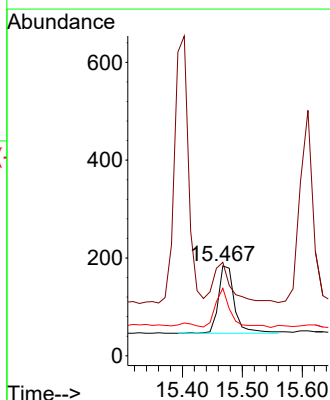
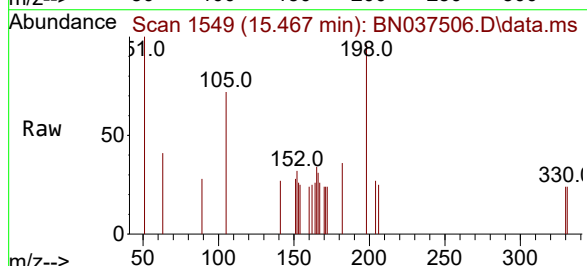
Tgt Ion:198 Resp: 267

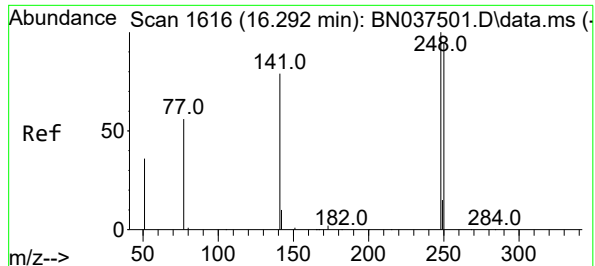
Ion Ratio Lower Upper

198 100

51 103.8 88.5 132.7

105 75.0 61.2 91.8

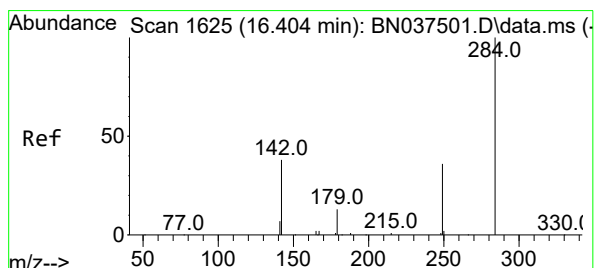
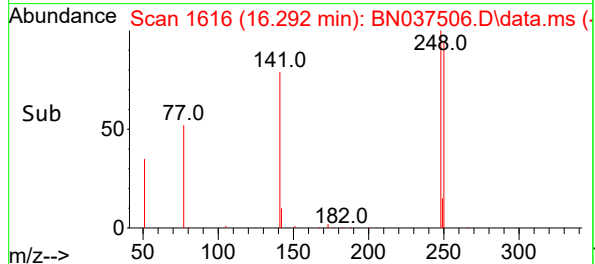
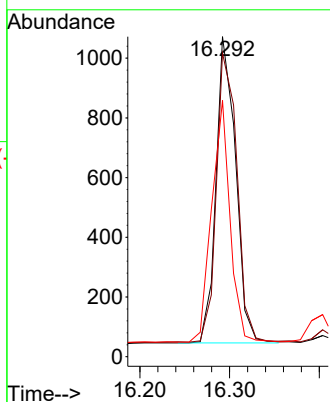
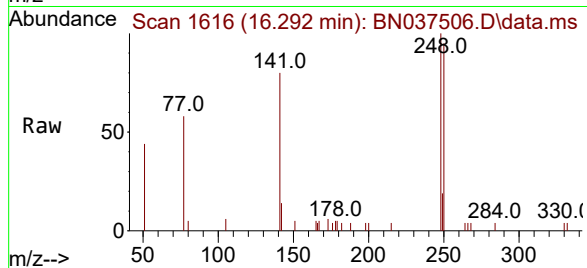




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

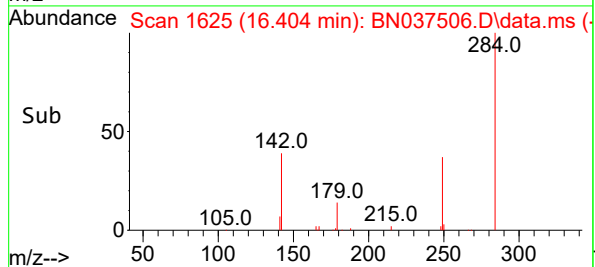
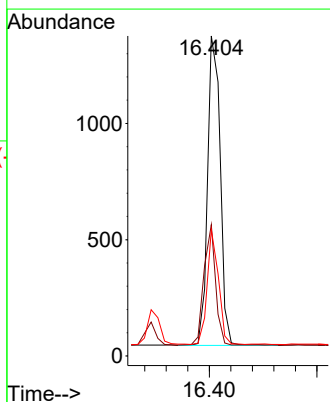
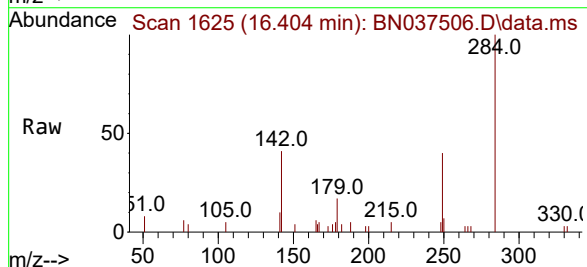
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

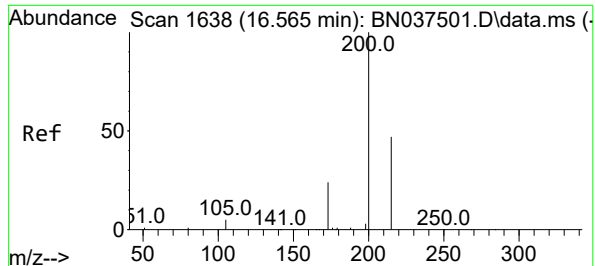
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.9	76.2	114.2
141	80.0	63.9	95.9



#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

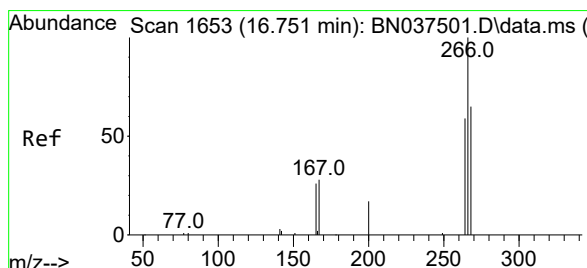
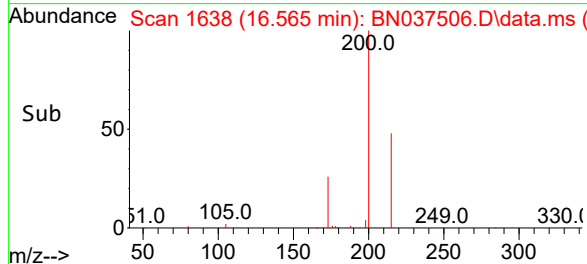
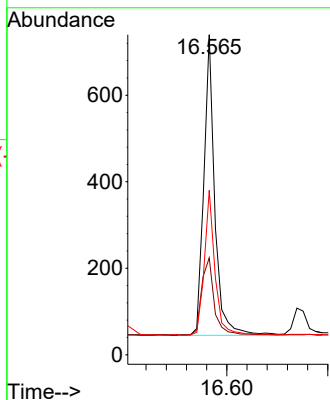
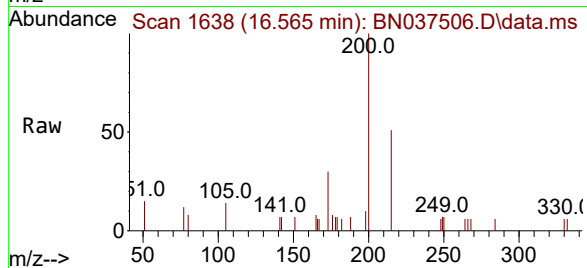




#23
Atrazine
Concen: 0.371 ng
RT: 16.565 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

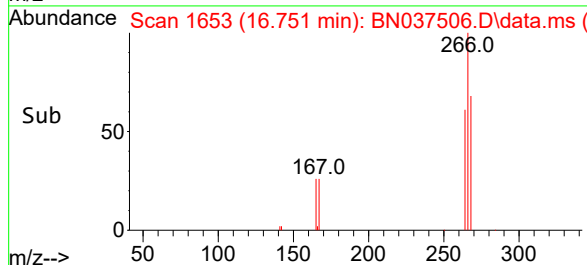
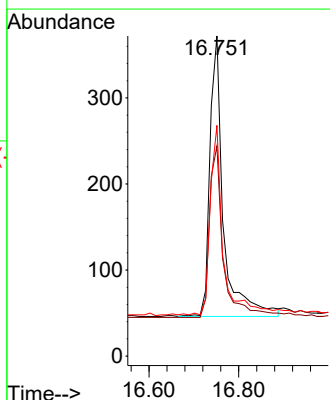
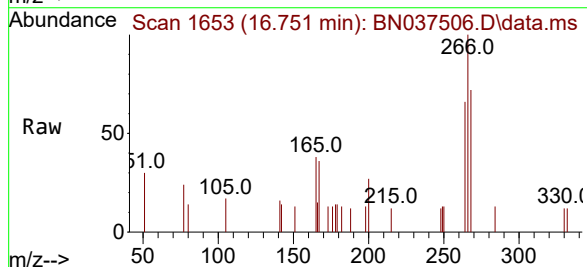
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

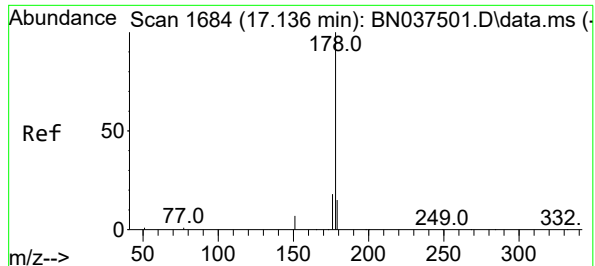
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.3	23.2	34.8
215	51.4	40.2	60.4



#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	Ratio	Lower	Upper
266	100		
264	62.9	49.3	73.9
268	65.2	51.6	77.4

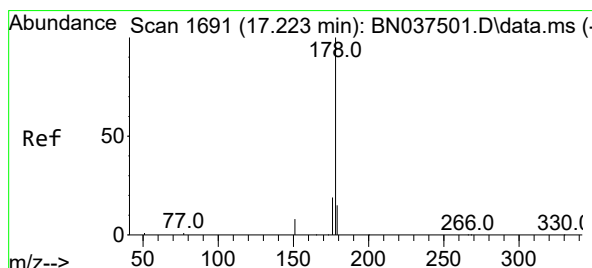
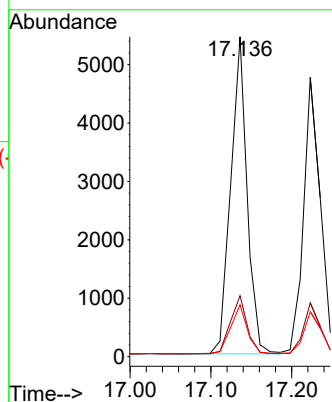
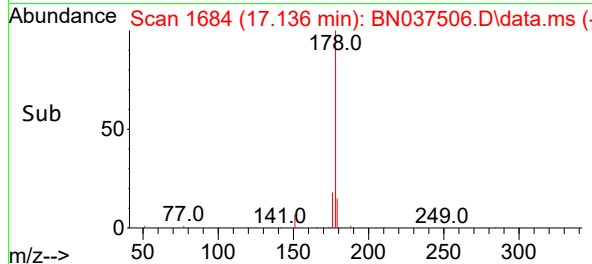
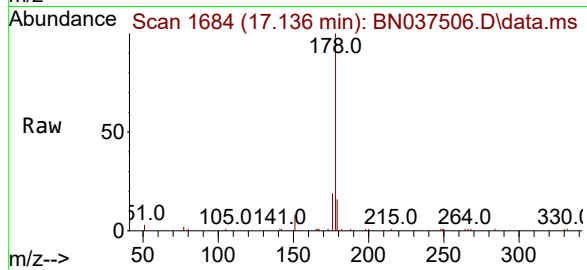




#25
Phenanthrene
Concen: 0.403 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

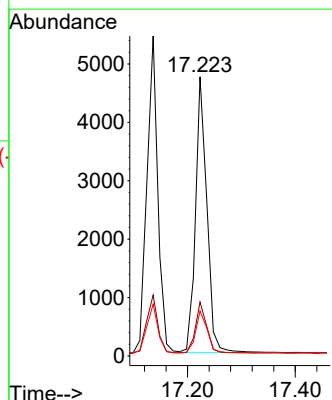
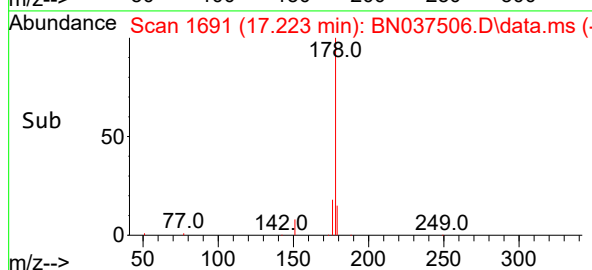
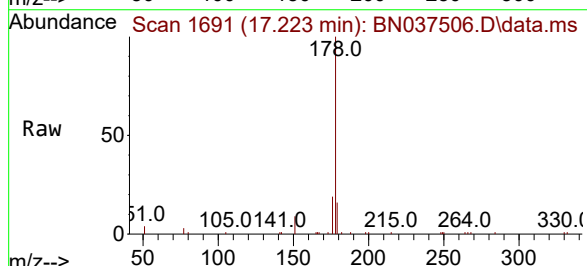
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

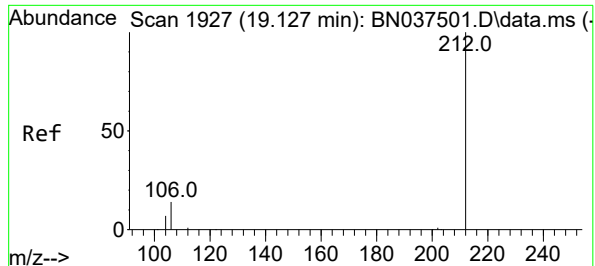
Tgt Ion:178 Resp: 7640
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.6 12.2 18.2



#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

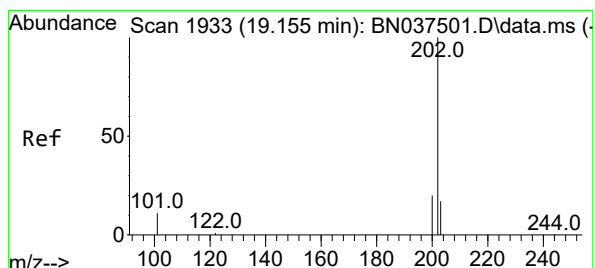
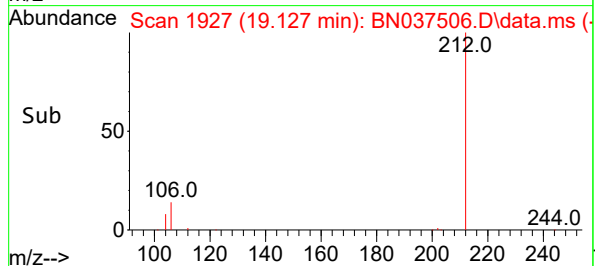
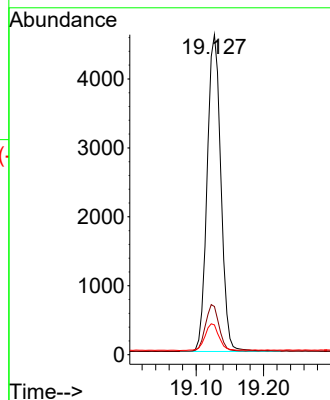
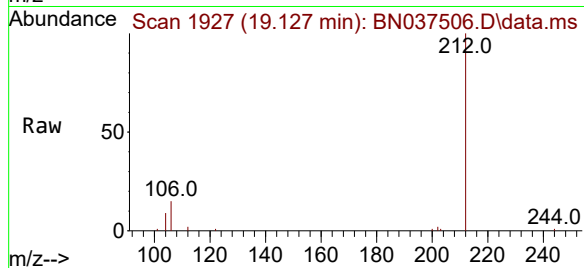
Tgt Ion:212 Resp: 6495

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

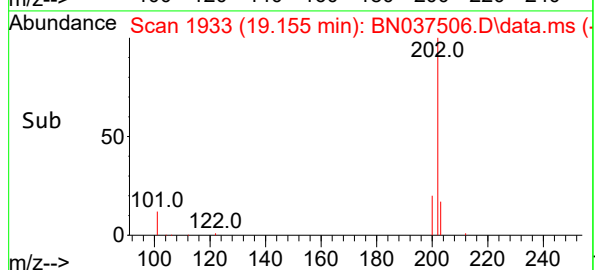
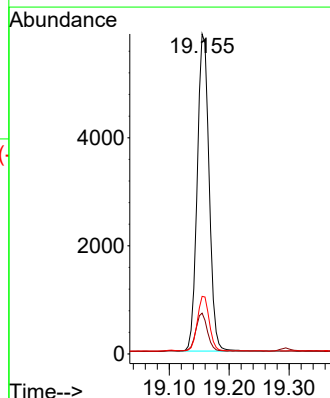
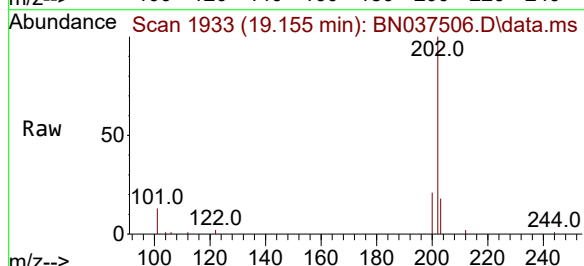
Tgt Ion:202 Resp: 8063

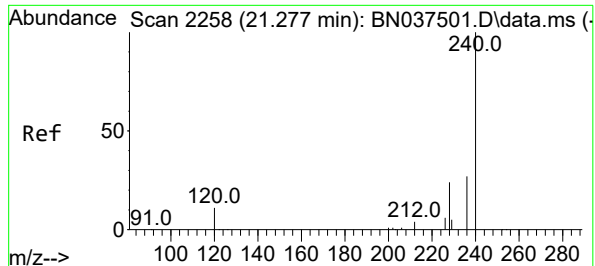
Ion Ratio Lower Upper

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

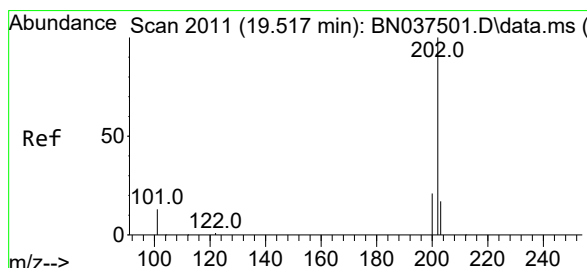
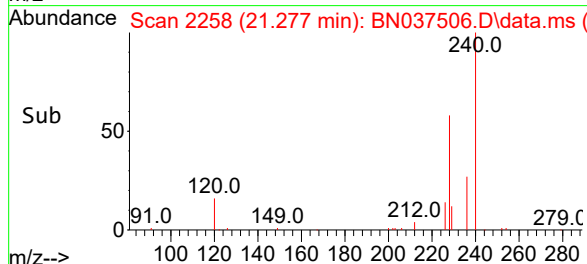
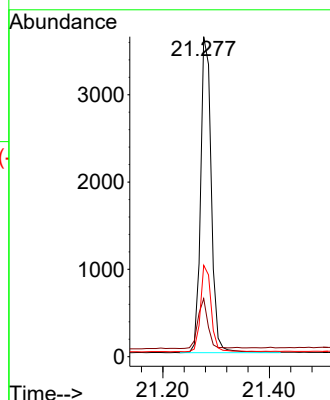
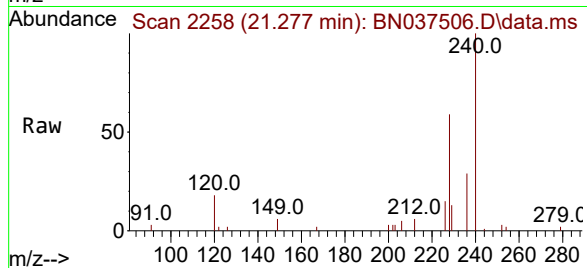
Tgt Ion:240 Resp: 5040

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

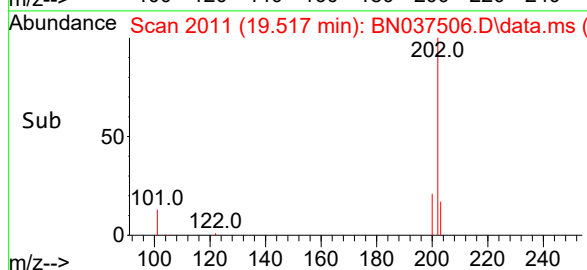
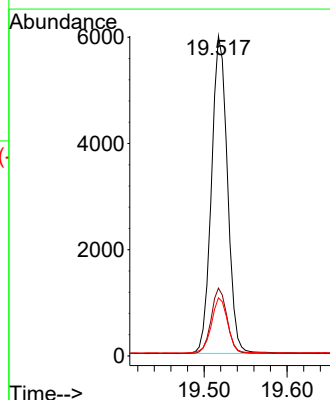
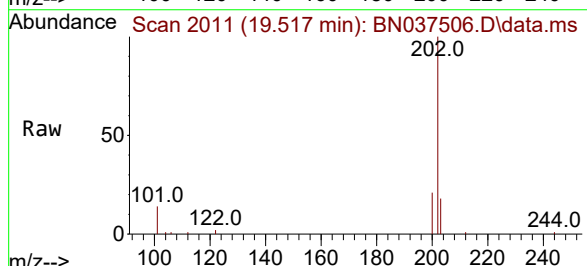
Tgt Ion:202 Resp: 8002

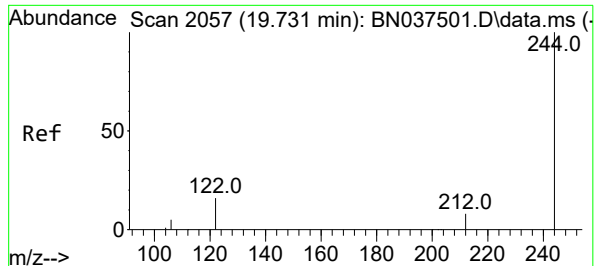
Ion Ratio Lower Upper

202 100

200 20.4 16.5 24.7

203 17.7 14.3 21.5

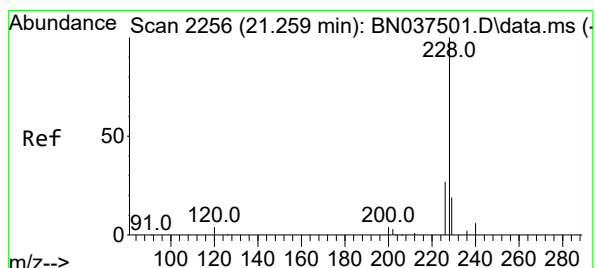
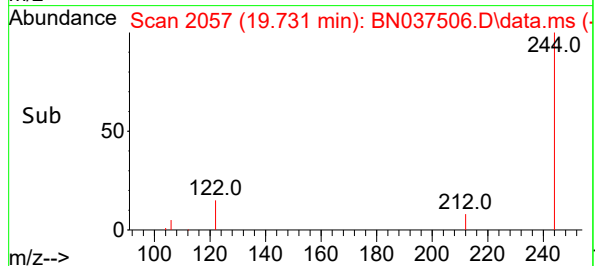
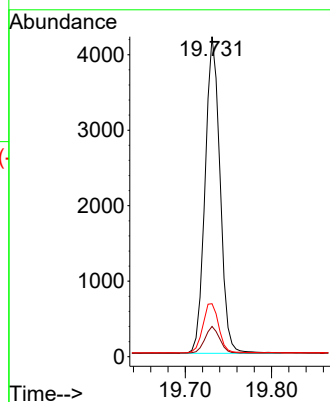
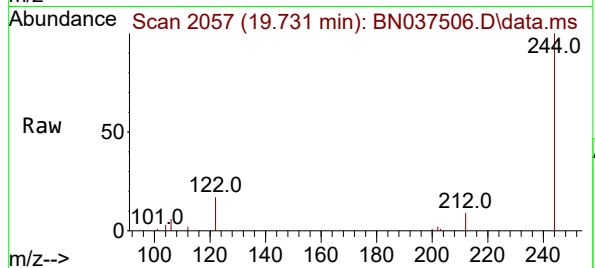




#31
Terphenyl-d14
Concen: 0.467 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

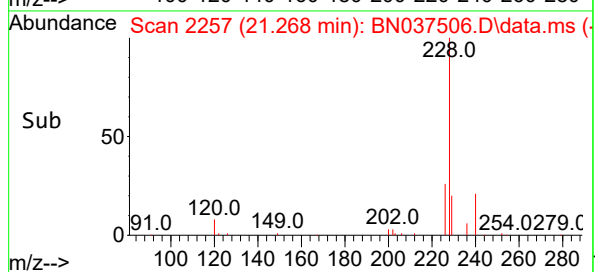
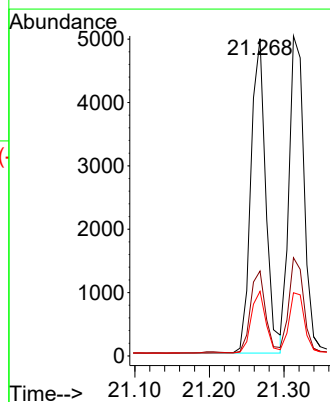
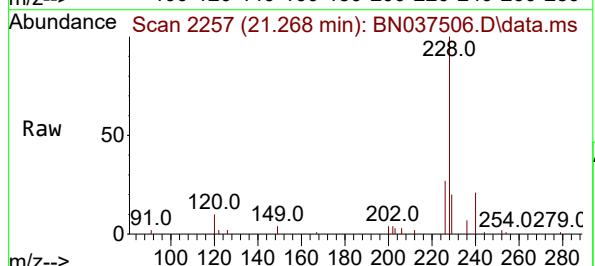
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

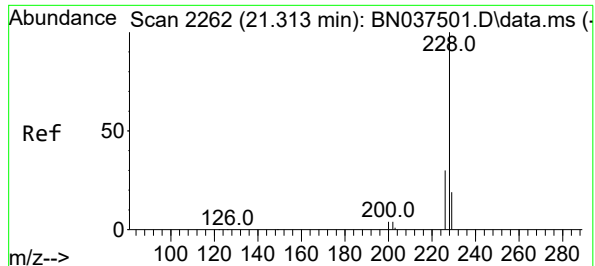
Tgt Ion:244 Resp: 5056
Ion Ratio Lower Upper
244 100
212 9.4 7.4 11.2
122 16.6 13.6 20.4



#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:228 Resp: 6891
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

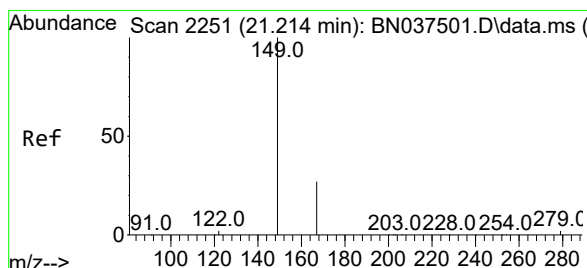
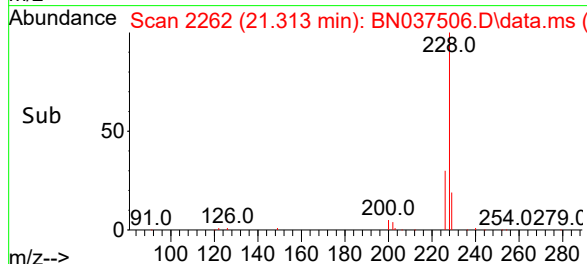
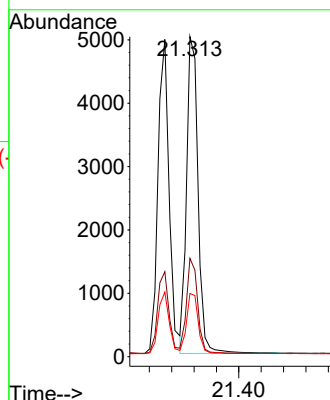
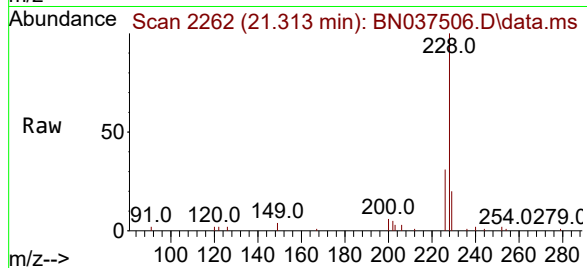
Tgt Ion:228 Resp: 7126

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

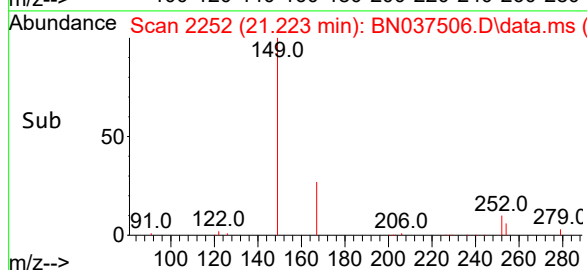
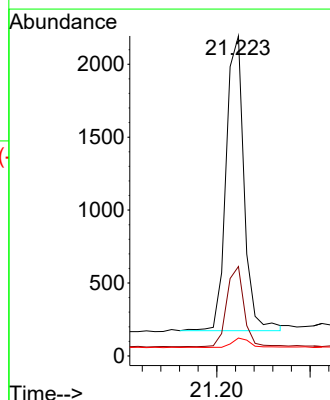
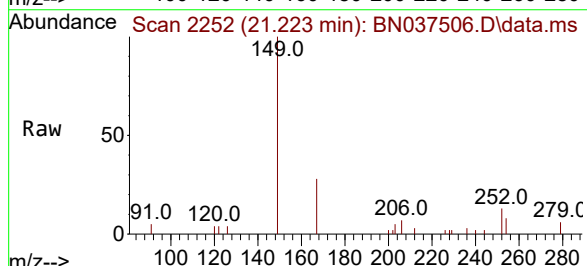
Tgt Ion:149 Resp: 2705

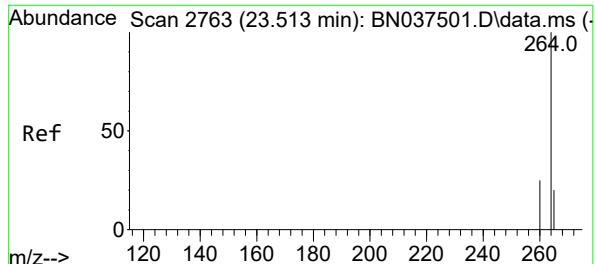
Ion Ratio Lower Upper

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

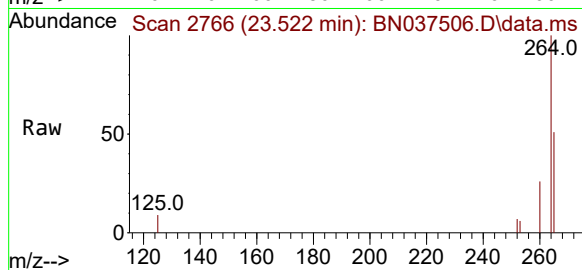
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



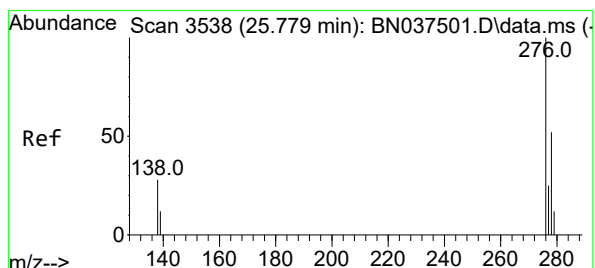
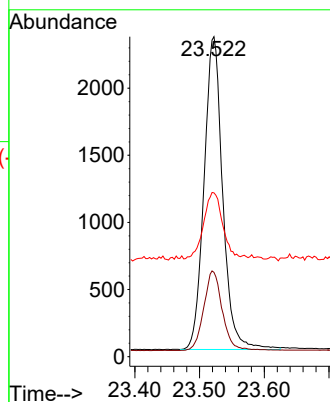
Tgt Ion:264 Resp: 4669

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

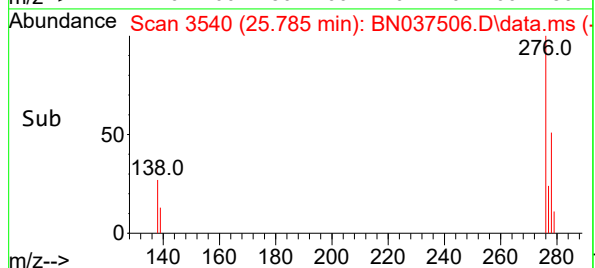
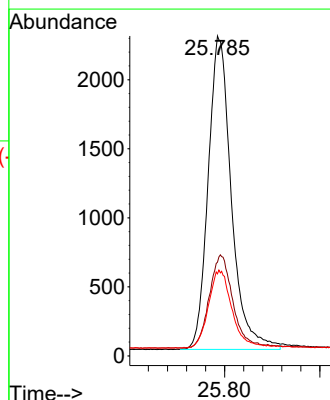
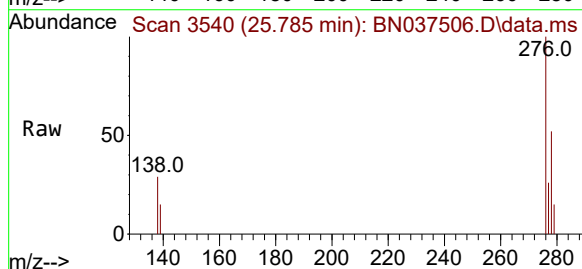
Tgt Ion:276 Resp: 7666

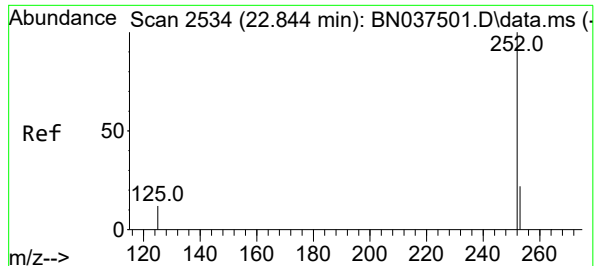
Ion Ratio Lower Upper

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# 21

Delta R.T. 0.003 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

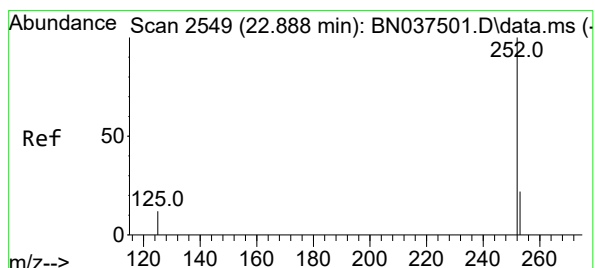
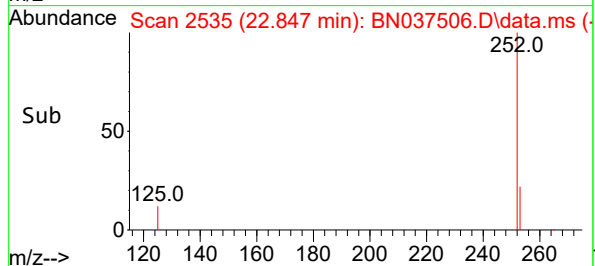
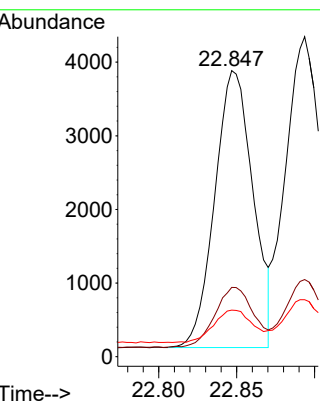
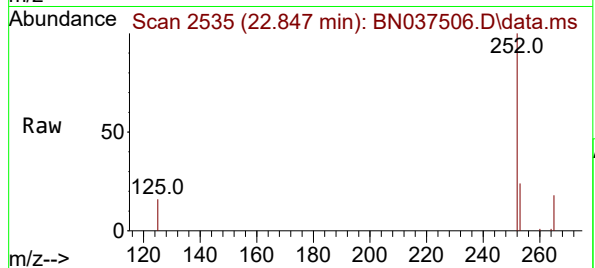
Tgt Ion:252 Resp: 6430

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

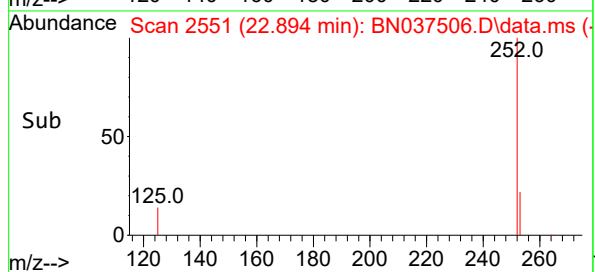
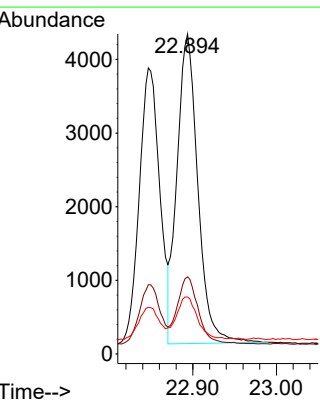
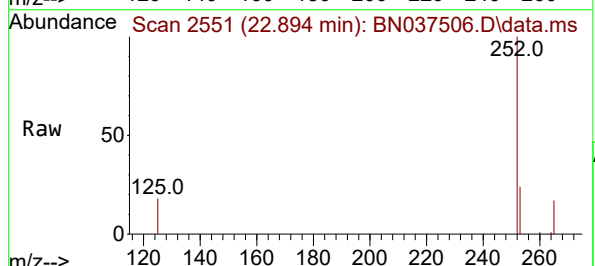
Tgt Ion:252 Resp: 7254

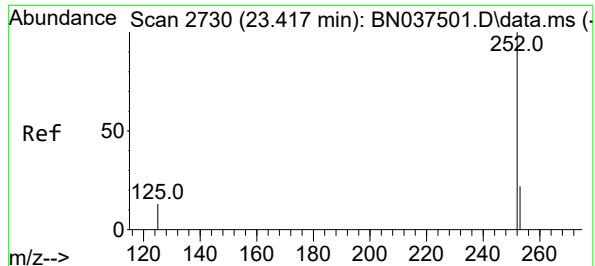
Ion Ratio Lower Upper

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

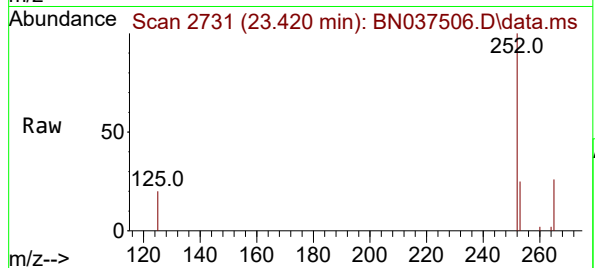
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



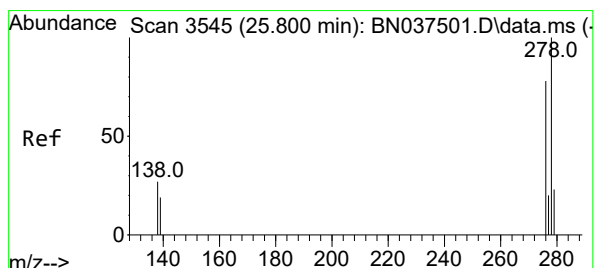
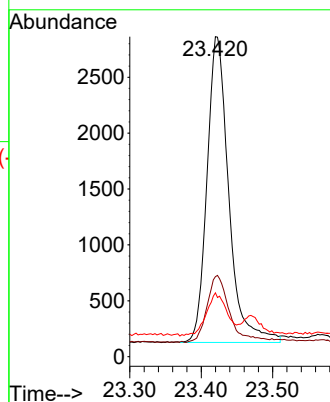
Tgt Ion:252 Resp: 5792

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

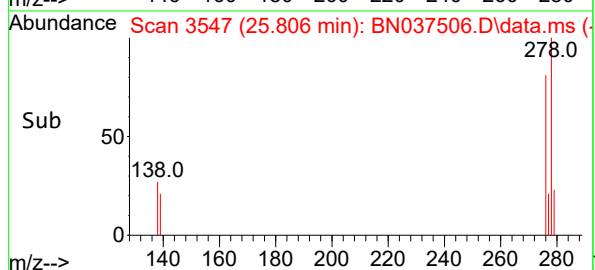
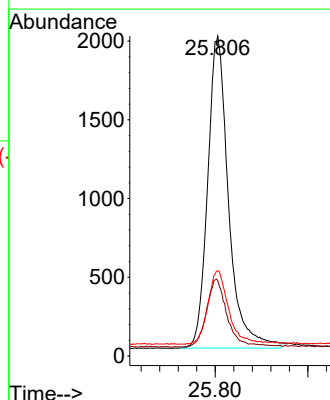
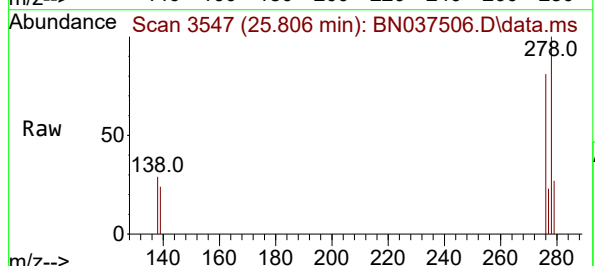
Tgt Ion:278 Resp: 6203

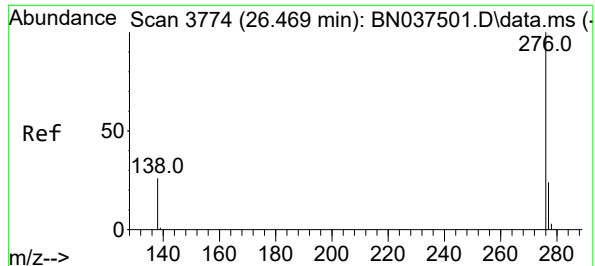
Ion Ratio Lower Upper

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

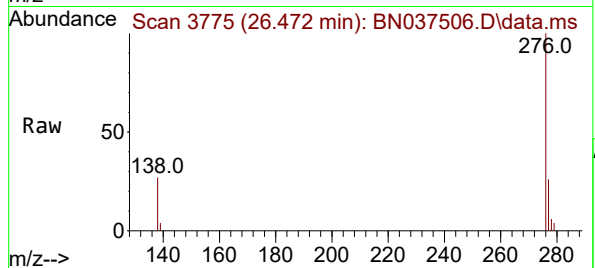
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



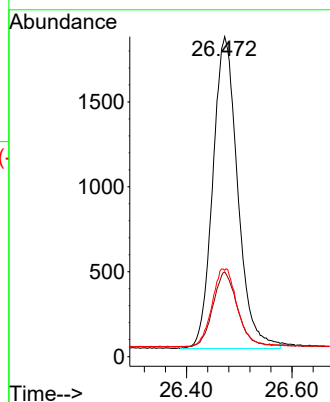
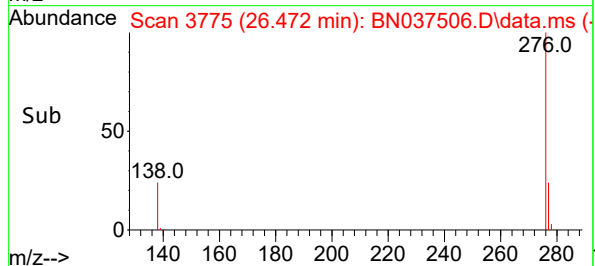
Tgt Ion:276 Resp: 6018

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:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2604</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>07/16/2025 09:50</u>
Lab File ID:	<u>BN037510.D</u>	Init. Calib. Date(s):	<u>07/15/2025 07/15/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4</u>	Init. Calib. Time(s):	<u>12:36 16:14</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.574	0.534		-7.0	20.0
Fluoranthene-d10	1.060	0.921		-13.1	20.0
2-Fluorophenol	0.989	0.945		-4.4	20.0
Phenol-d6	1.241	1.176		-5.2	20.0
Nitrobenzene-d5	0.299	0.281		-6.0	20.0
2-Fluorobiphenyl	2.080	2.104		1.2	20.0
2,4,6-Tribromophenol	0.197	0.158		-19.8	20.0
Terphenyl-d14	0.859	0.818		-4.8	20.0
1,4-Dioxane	0.385	0.402		4.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
 Data File : BN037510.D
 Acq On : 16 Jul 2025 09:50
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jul 16 10:53:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 2025
 Response via : Initial Calibration

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

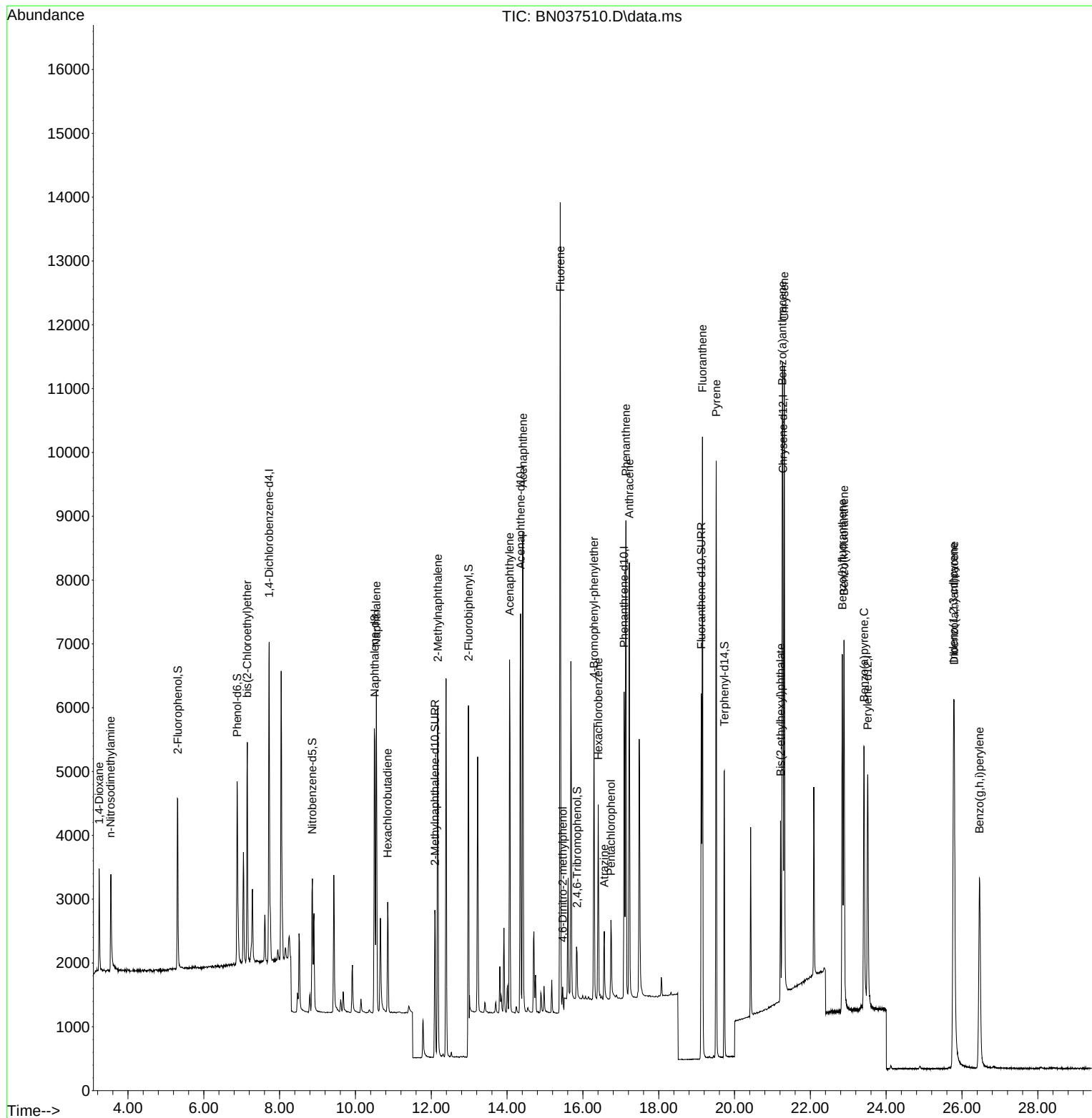
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2448	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6343	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	3548	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	6984	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	5489	0.400	ng	0.00
35) Perylene-d12	23.513	264	5154	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2313	0.382	ng	0.00
5) Phenol-d6	6.879	99	2880	0.379	ng	0.00
8) Nitrobenzene-d5	8.865	82	1781	0.376	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	3385	0.372	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	562	0.322	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	7464	0.405	ng	0.00
27) Fluoranthene-d10	19.122	212	6430	0.348	ng	0.00
31) Terphenyl-d14	19.731	244	4490	0.381	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	983	0.418	ng	98
3) n-Nitrosodimethylamine	3.543	42	1151	0.389	ng	# 98
6) bis(2-Chloroethyl)ether	7.147	93	2538	0.402	ng	99
9) Naphthalene	10.552	128	6526	0.386	ng	99
10) Hexachlorobutadiene	10.850	225	1454	0.389	ng	# 100
12) 2-Methylnaphthalene	12.172	142	4180	0.376	ng	99
16) Acenaphthylene	14.067	152	6187	0.389	ng	99
17) Acenaphthene	14.420	154	4110	0.380	ng	99
18) Fluorene	15.403	166	5393	0.388	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	265	0.371	ng	95
21) 4-Bromophenyl-phenylether	16.292	248	1685	0.377	ng	95
22) Hexachlorobenzene	16.404	284	2268	0.392	ng	99
23) Atrazine	16.565	200	995	0.319	ng	99
24) Pentachlorophenol	16.739	266	743	0.287	ng	98
25) Phenanthrene	17.136	178	7963	0.381	ng	100
26) Anthracene	17.223	178	7060	0.370	ng	100
28) Fluoranthene	19.155	202	8723	0.362	ng	99
30) Pyrene	19.517	202	8536	0.386	ng	100
32) Benzo(a)anthracene	21.259	228	7045	0.366	ng	100
33) Chrysene	21.313	228	8149	0.407	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	2643	0.306	ng	97
36) Indeno(1,2,3-cd)pyrene	25.779	276	8002	0.373	ng	99
37) Benzo(b)fluoranthene	22.844	252	7085	0.362	ng	99
38) Benzo(k)fluoranthene	22.888	252	7678	0.380	ng	99
39) Benzo(a)pyrene	23.417	252	6249	0.383	ng	99
40) Dibenzo(a,h)anthracene	25.794	278	6362	0.366	ng	98
41) Benzo(g,h,i)perylene	26.463	276	6501	0.361	ng	98

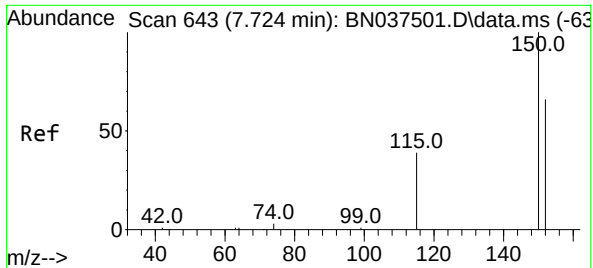
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037510.D
Acq On : 16 Jul 2025 09:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jul 16 10:53:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 16 02:38:11 2025
Response via : Initial Calibration

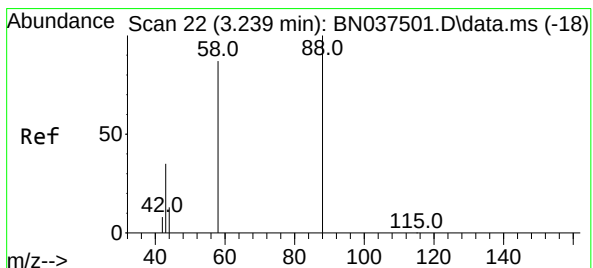
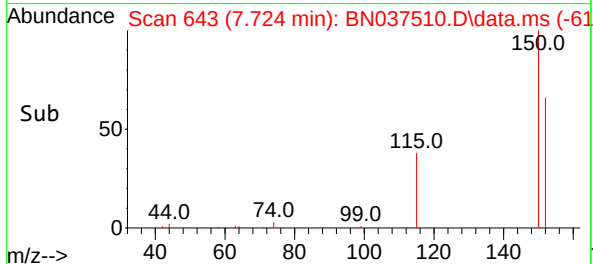
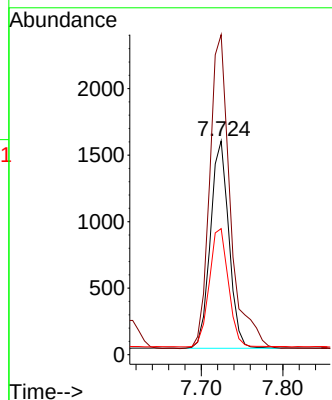
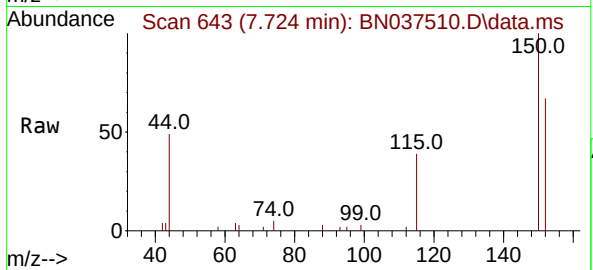




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

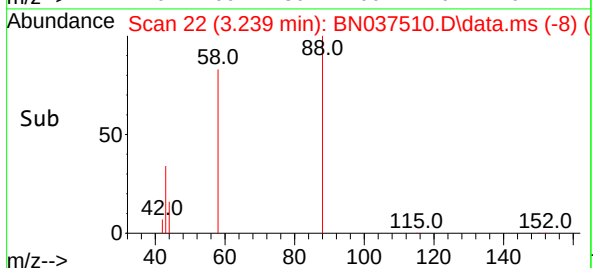
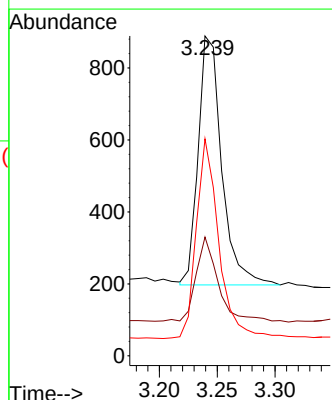
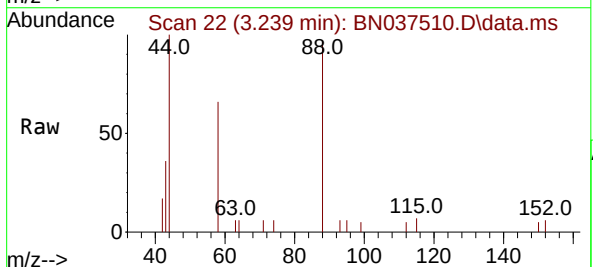
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

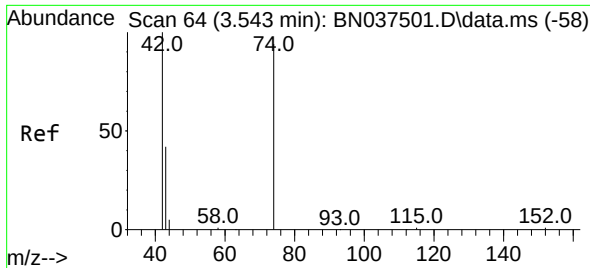
Tgt Ion:152 Resp: 2448
Ion Ratio Lower Upper
152 100
150 149.7 119.8 179.8
115 59.0 49.1 73.7



#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion: 88 Resp: 983
Ion Ratio Lower Upper
88 100
43 32.8 27.5 41.3
58 77.2 62.7 94.1

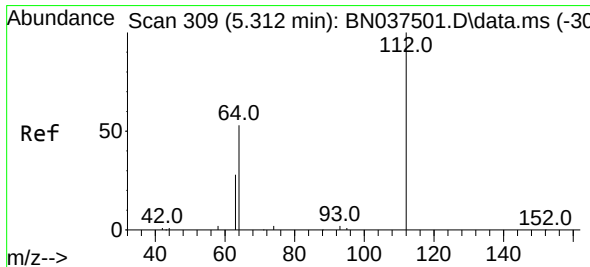
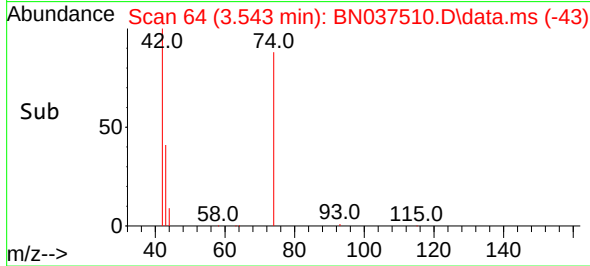
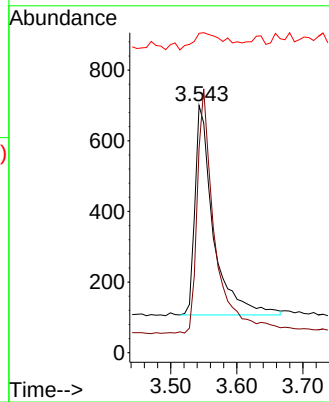
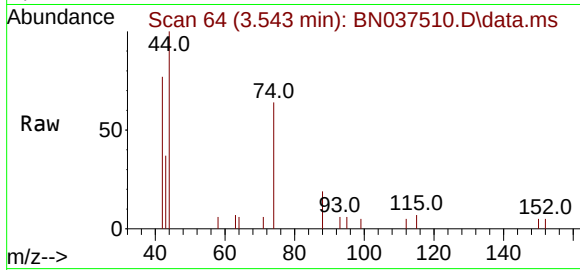




#3
n-Nitrosodimethylamine
Concen: 0.389 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

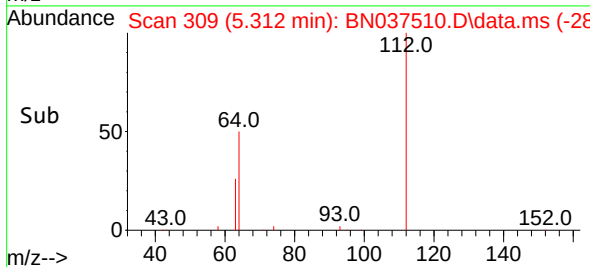
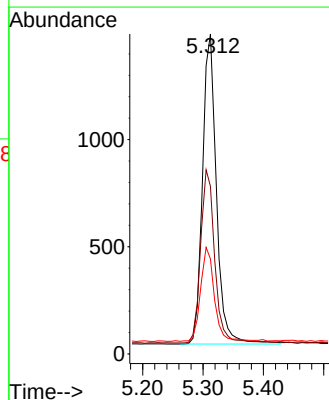
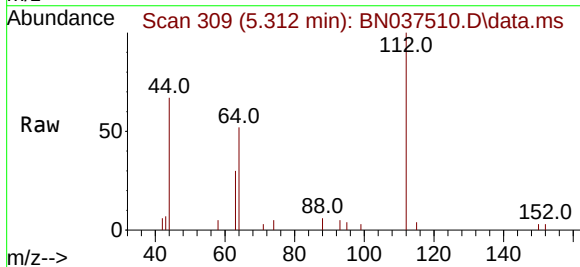
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

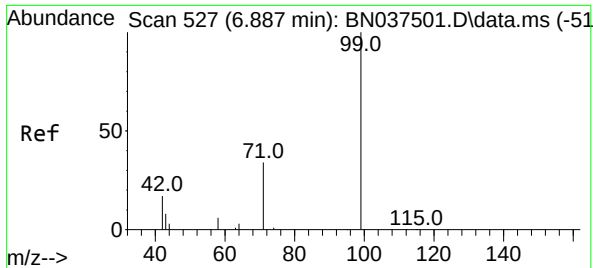
Tgt Ion: 42 Resp: 1151
Ion Ratio Lower Upper
42 100
74 113.8 91.8 137.6
44 14.6 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.382 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion: 112 Resp: 2313
Ion Ratio Lower Upper
112 100
64 56.8 45.1 67.7
63 29.7 23.8 35.8

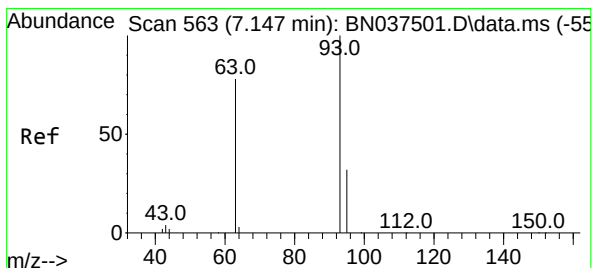
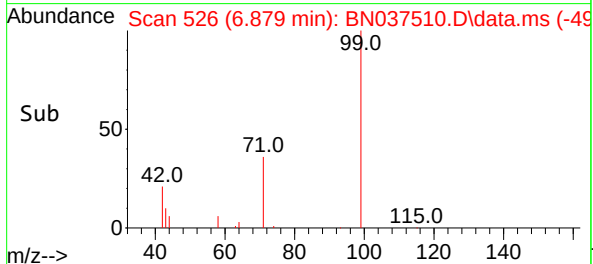
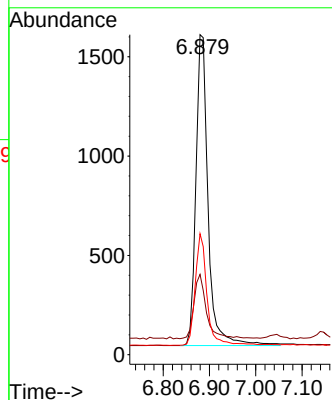
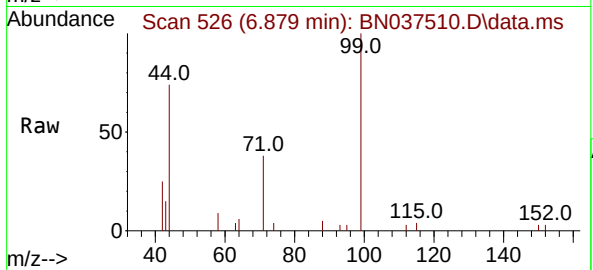




#5
Phenol-d6
Concen: 0.379 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

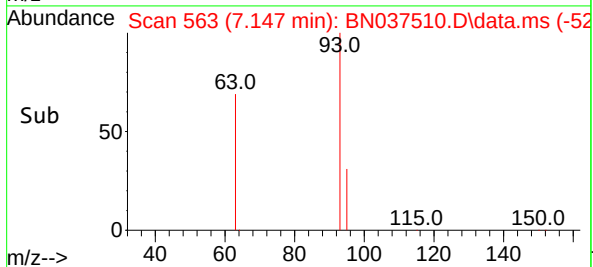
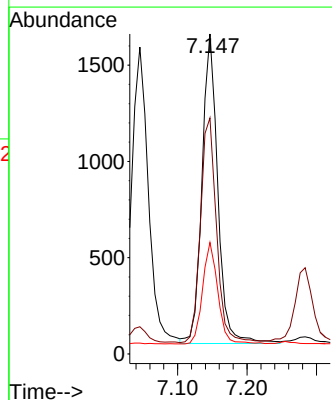
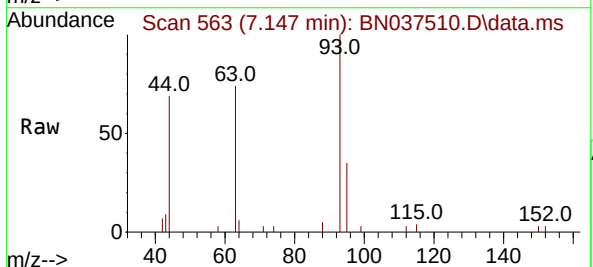
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

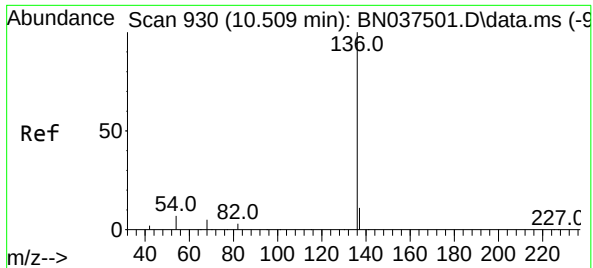
Tgt Ion: 99 Resp: 2880
Ion Ratio Lower Upper
99 100
42 21.3 17.1 25.7
71 34.9 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion: 93 Resp: 2538
Ion Ratio Lower Upper
93 100
63 73.8 58.2 87.4
95 31.6 25.3 37.9

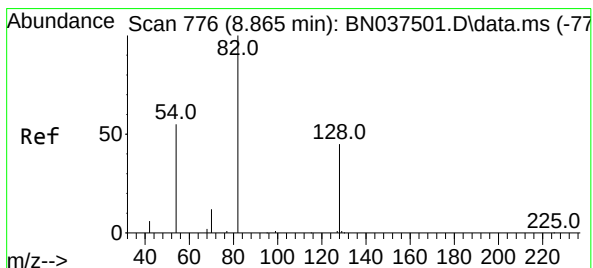
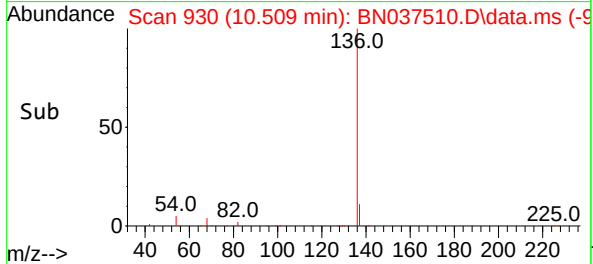
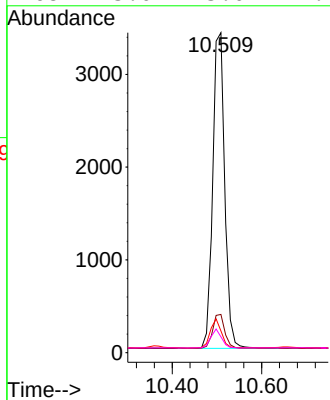
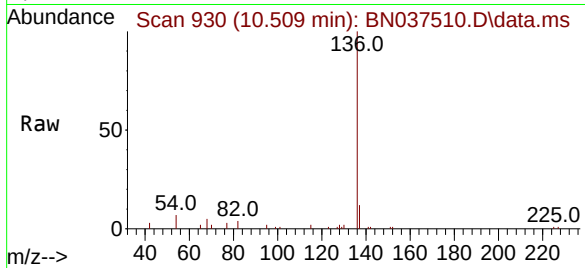




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

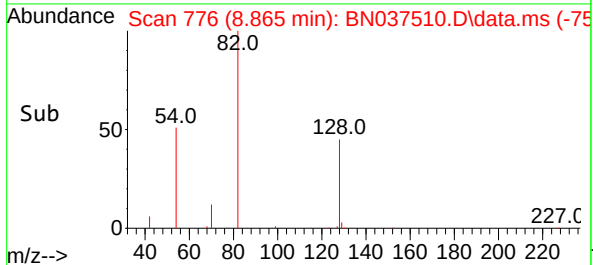
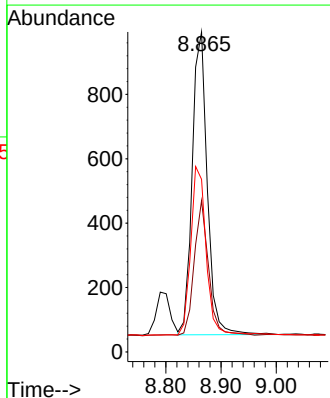
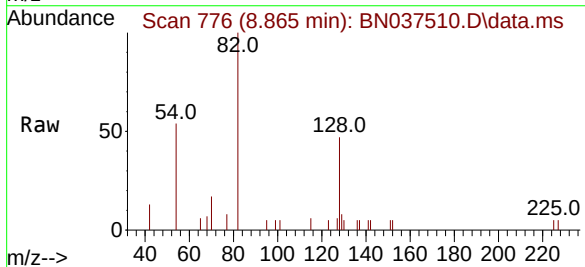
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

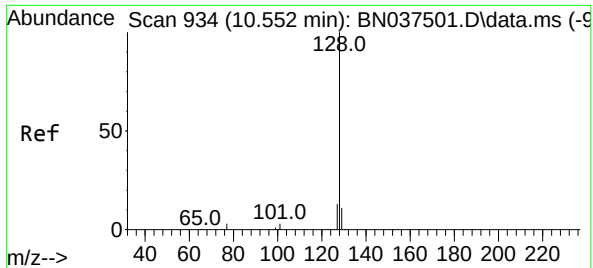
Tgt Ion	136	137	54	68
Resp:	6343	11.9	6.8	5.0
Lower		9.8	6.6	5.0
Upper		14.8	9.8	7.6



#8
Nitrobenzene-d5
Concen: 0.376 ng
RT: 8.865 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion	82	128	54
Resp:	1781	47.3	53.9
Lower		37.5	45.3
Upper		56.3	67.9

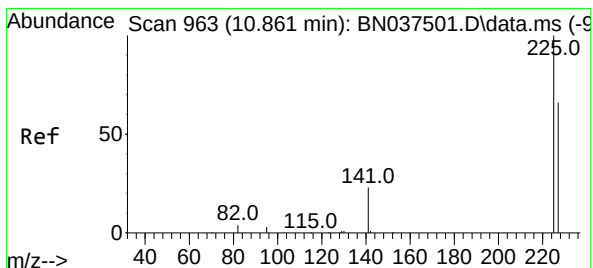
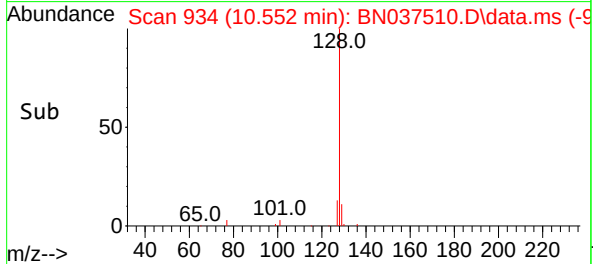
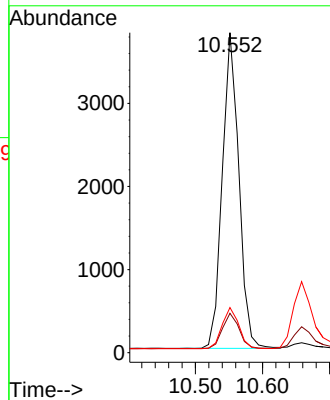
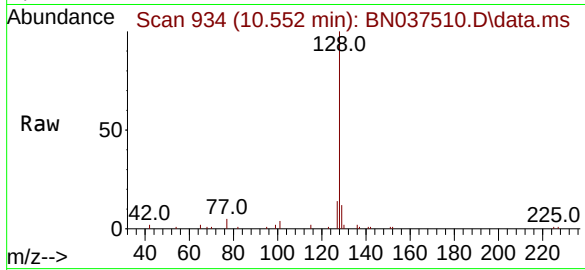




#9
Naphthalene
Concen: 0.386 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

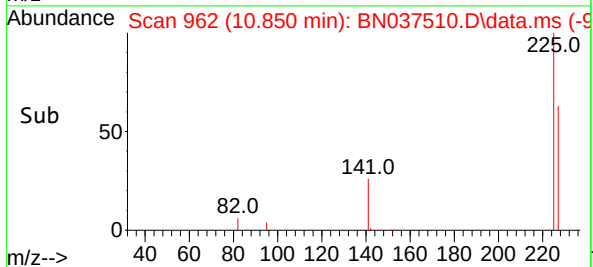
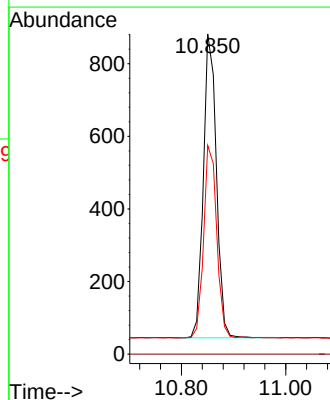
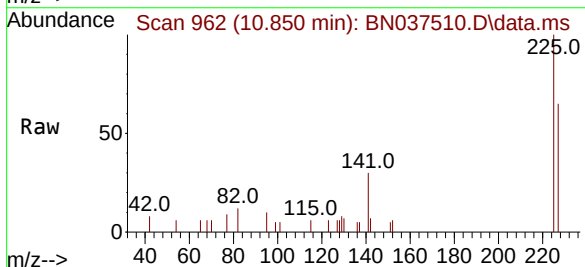
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

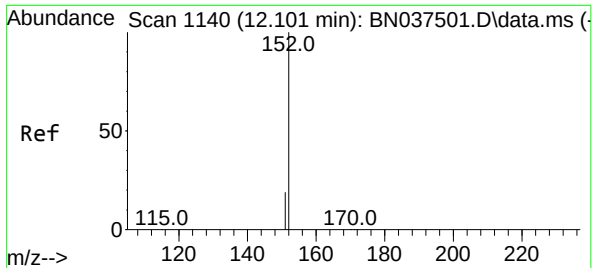
Tgt Ion:128 Resp: 6526
Ion Ratio Lower Upper
128 100
129 12.3 9.7 14.5
127 14.1 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion:225 Resp: 1454
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.0 76.4

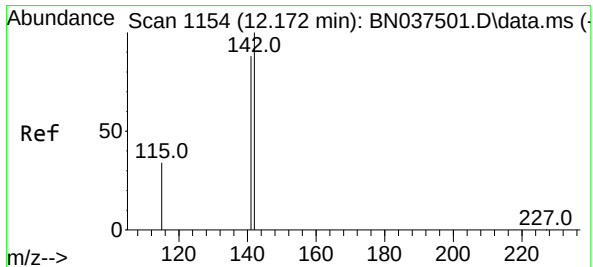
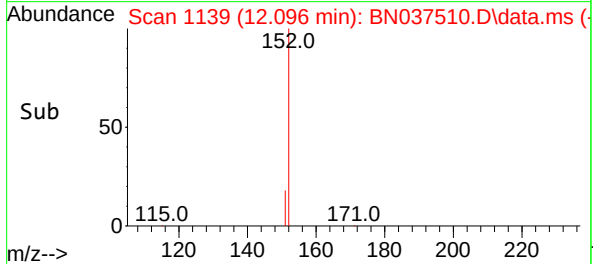
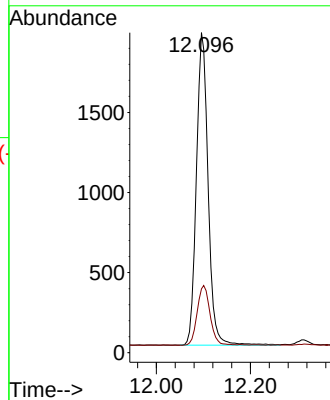
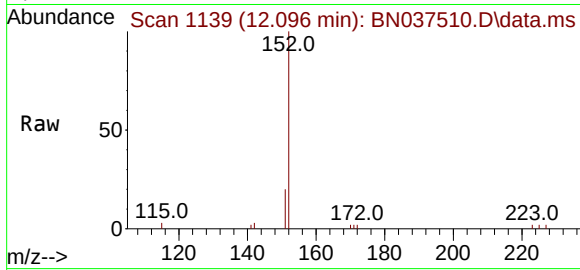




#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

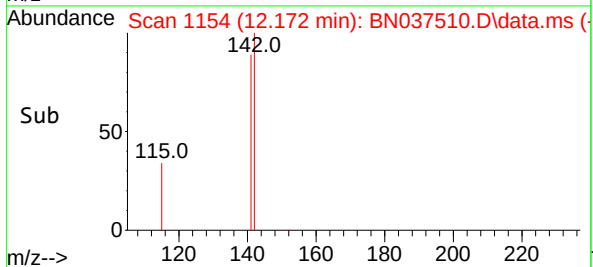
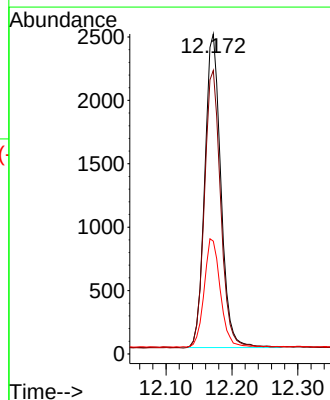
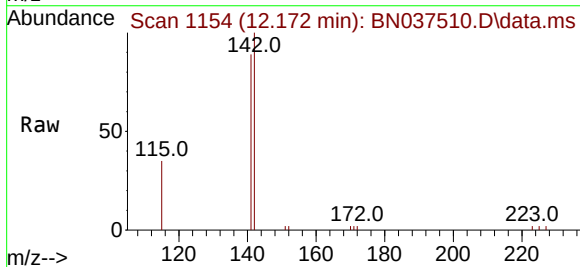
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

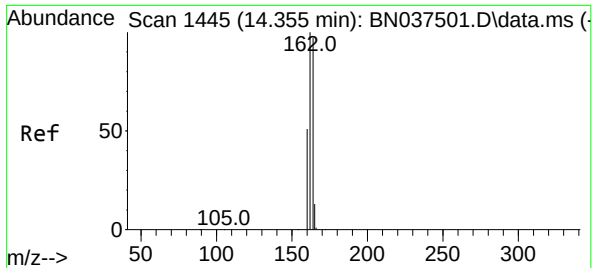
Tgt Ion:152 Resp: 3385
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.376 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion:142 Resp: 4180
Ion Ratio Lower Upper
142 100
141 88.6 71.0 106.4
115 35.2 29.0 43.4

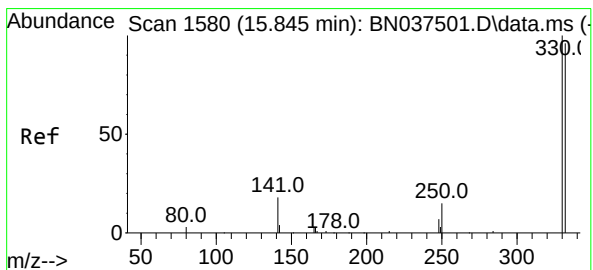
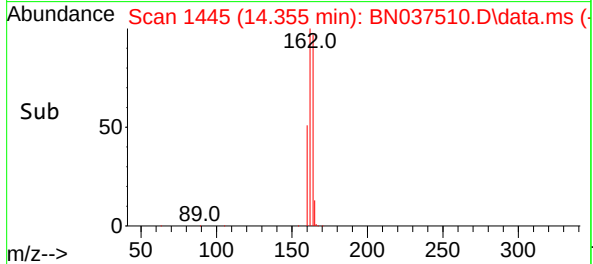
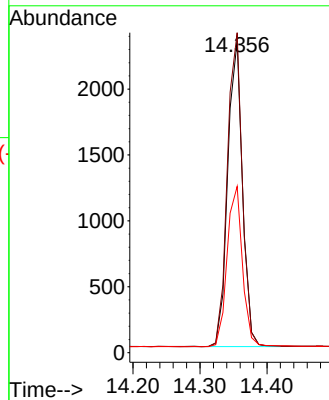
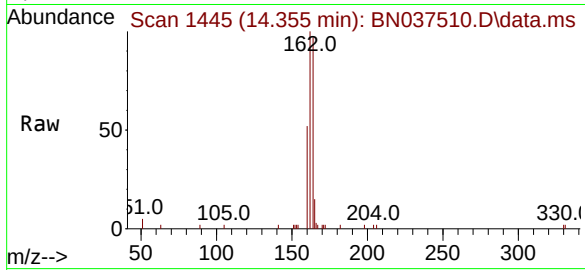




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

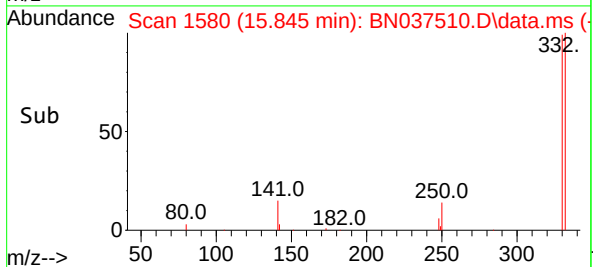
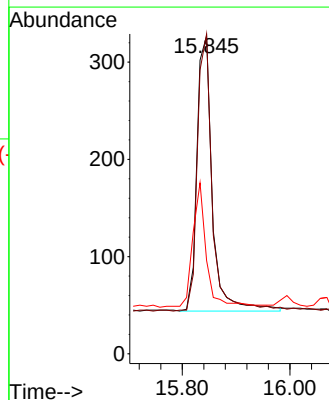
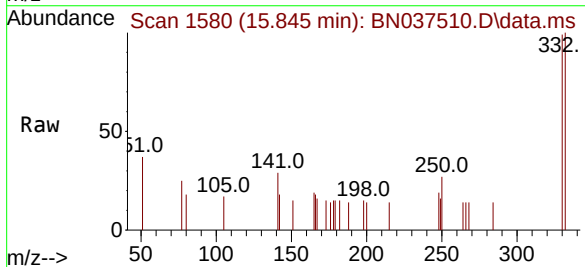
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

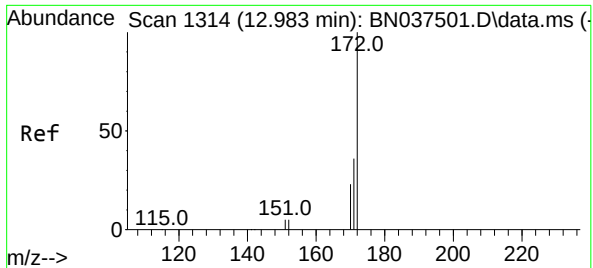
Tgt Ion	164	Resp	3548
Ion Ratio	Lower	Upper	
164	100		
162	102.6	82.0	123.0
160	53.3	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.322 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion	330	Resp	562
Ion Ratio	Lower	Upper	
330	100		
332	97.9	76.1	114.1
141	38.3	33.4	50.0

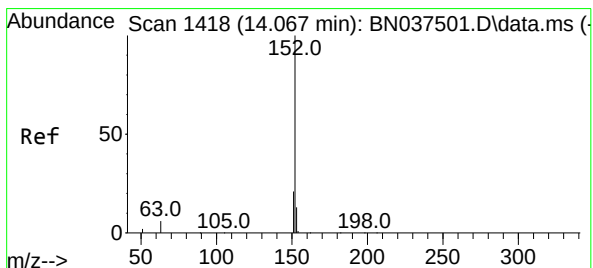
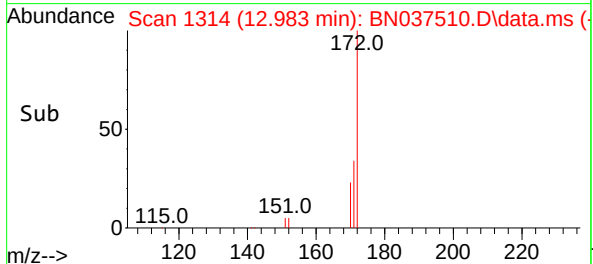
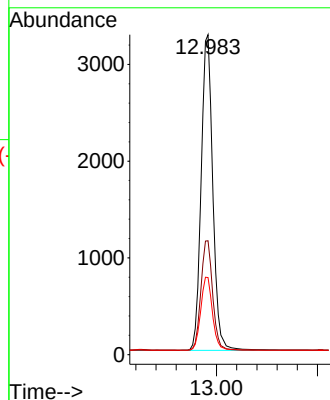
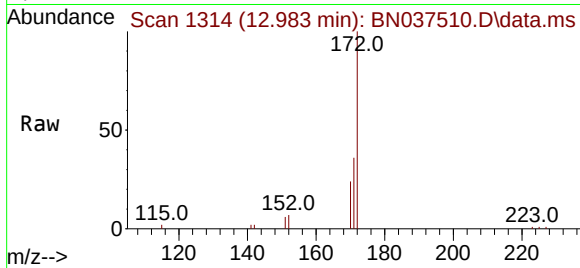




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.983 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

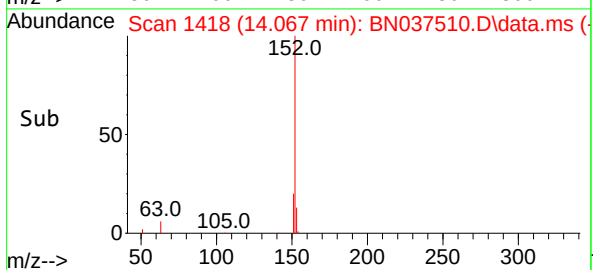
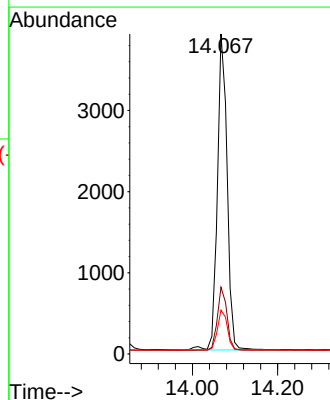
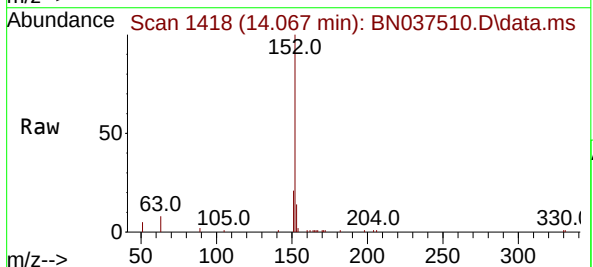
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

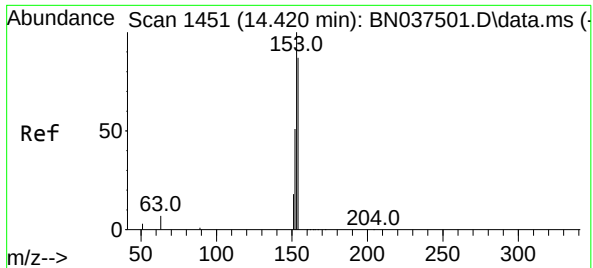
Tgt Ion:	172	Resp:	7464
Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.4	44.2
170	24.1	19.4	29.0



#16
Acenaphthylene
Concen: 0.389 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion:	152	Resp:	6187
Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.9	23.9
153	12.7	10.7	16.1

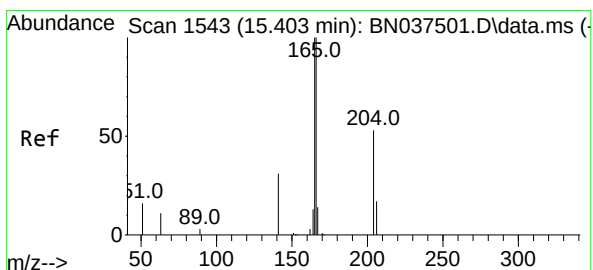
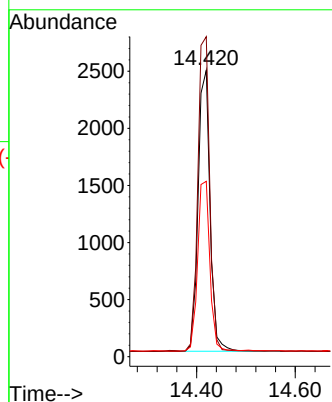
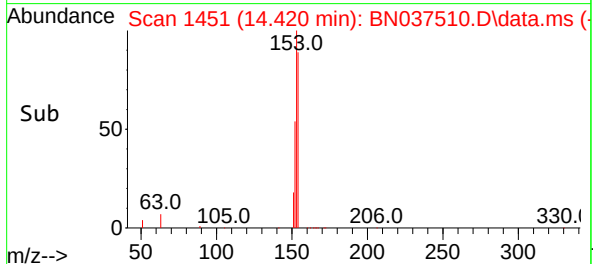
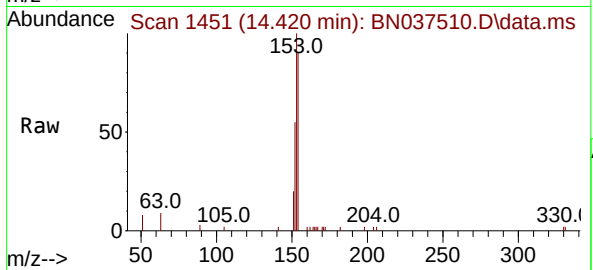




#17
Acenaphthene
Concen: 0.380 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

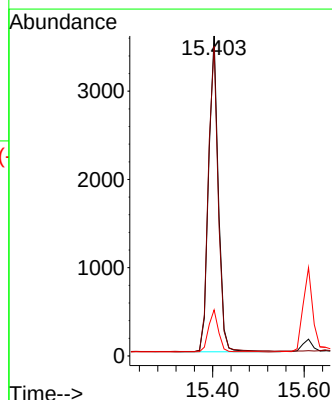
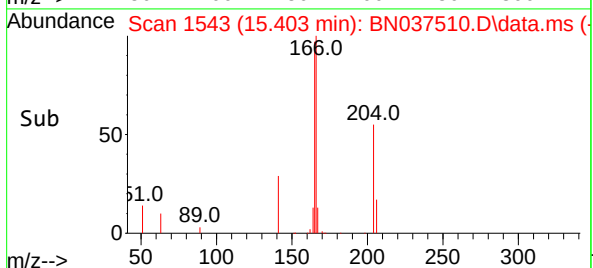
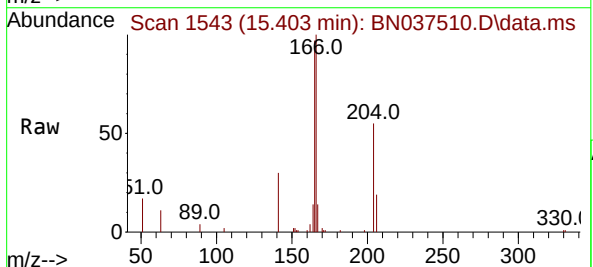
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

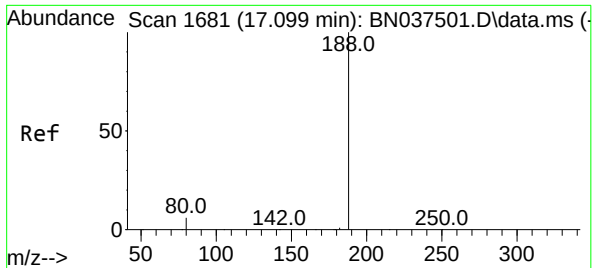
Tgt Ion:154 Resp: 4110
Ion Ratio Lower Upper
154 100
153 112.2 89.2 133.8
152 61.8 48.0 72.0



#18
Fluorene
Concen: 0.388 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion:166 Resp: 5393
Ion Ratio Lower Upper
166 100
165 97.8 78.1 117.1
167 13.4 11.0 16.6

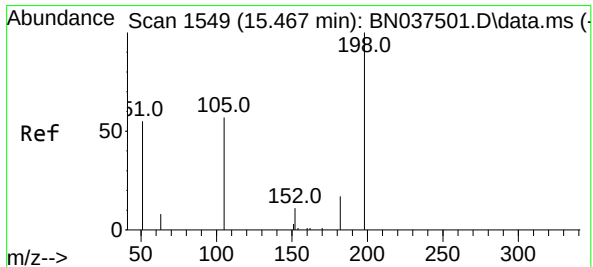
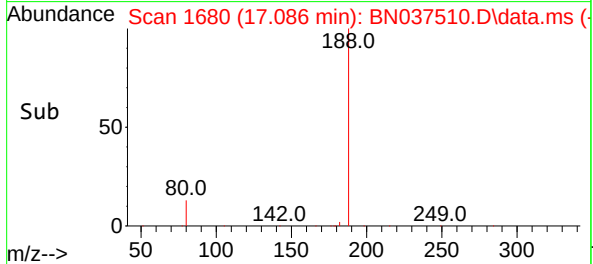
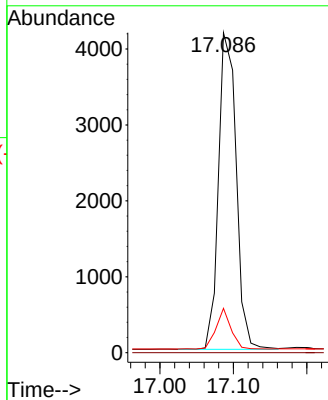
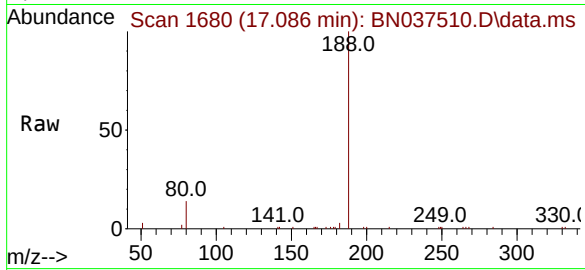




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

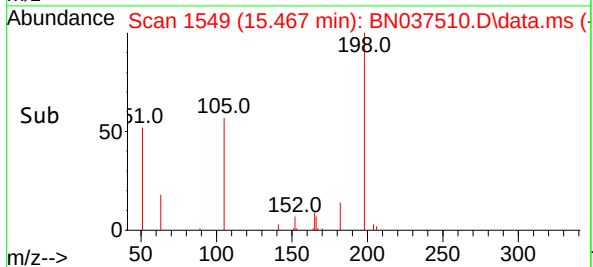
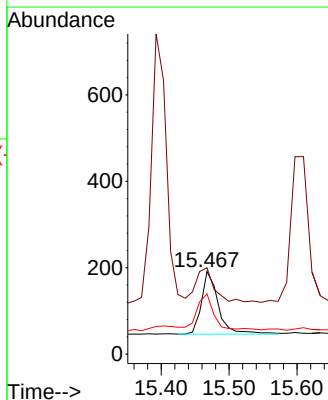
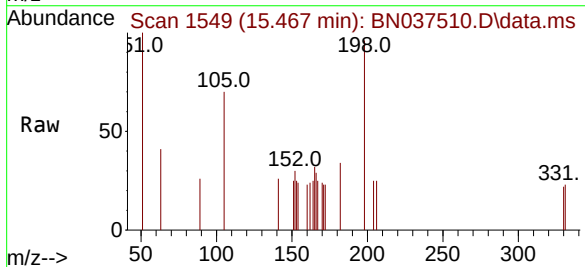
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

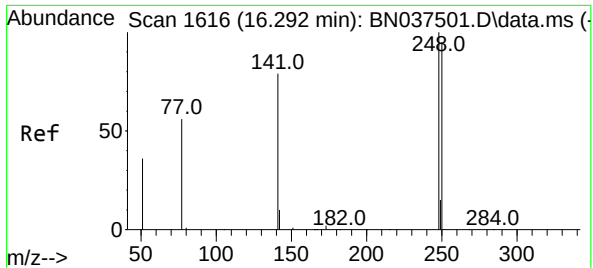
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.9	6.0	9.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.371 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion	Ratio	Lower	Upper
198	100		
51	104.7	88.5	132.7
105	72.8	61.2	91.8

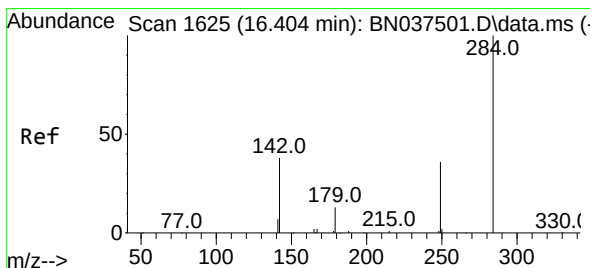
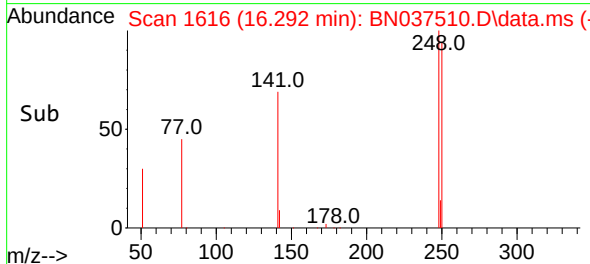
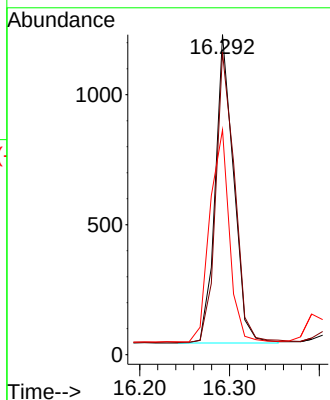
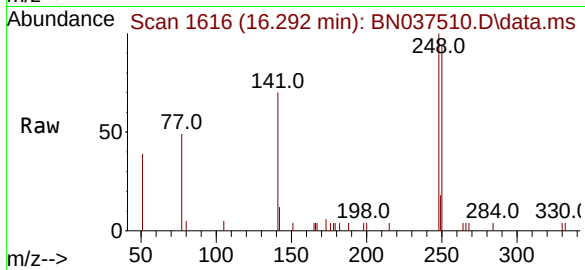




#21
4-Bromophenyl-phenylether
Concen: 0.377 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

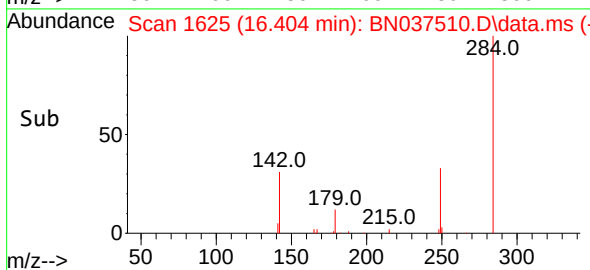
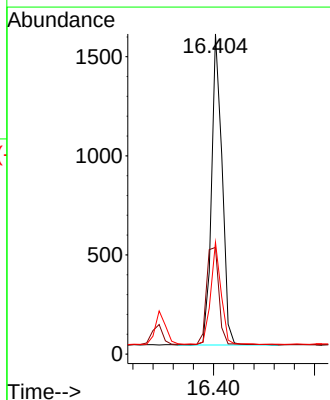
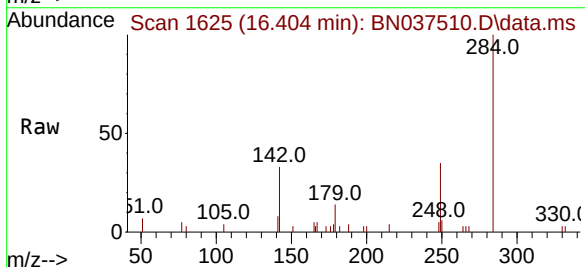
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

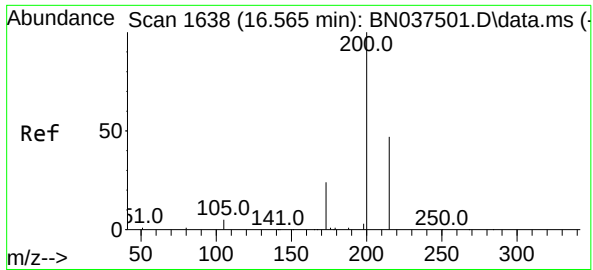
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.5	76.2	114.2
141	70.3	63.9	95.9



#22
Hexachlorobenzene
Concen: 0.392 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.1	28.9	43.3
249	32.5	25.8	38.6





#23

Atrazine

Concen: 0.319 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN037510.D

Acq: 16 Jul 2025 09:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

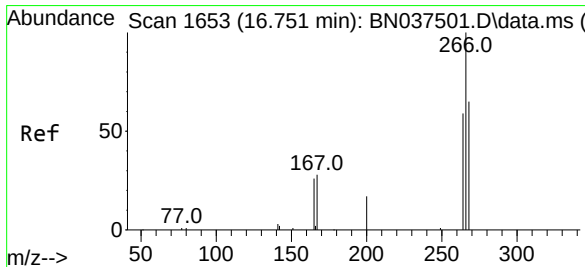
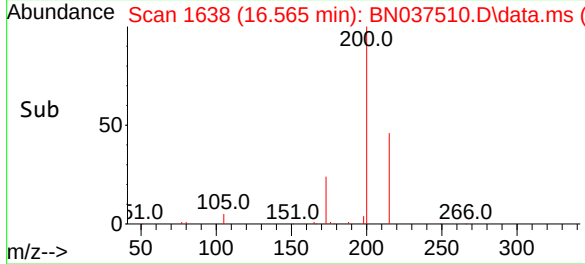
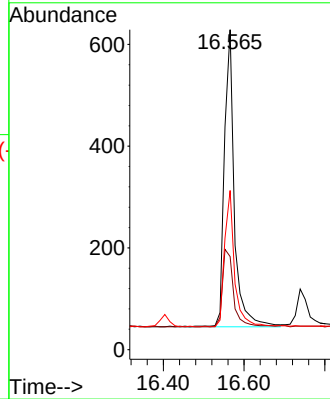
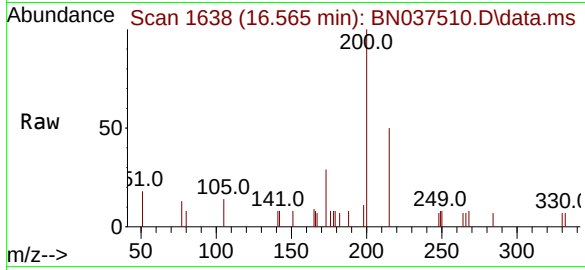
Tgt Ion:200 Resp: 995

Ion Ratio Lower Upper

200 100

173 29.1 23.2 34.8

215 49.8 40.2 60.4



#24

Pentachlorophenol

Concen: 0.287 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN037510.D

Acq: 16 Jul 2025 09:50

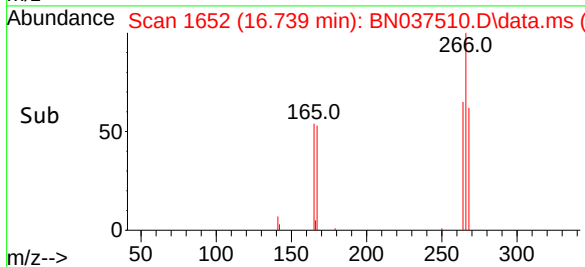
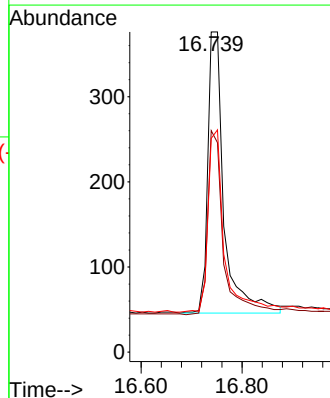
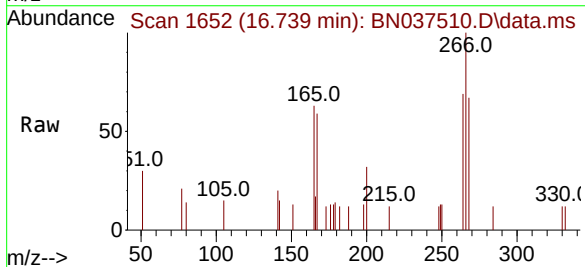
Tgt Ion:266 Resp: 743

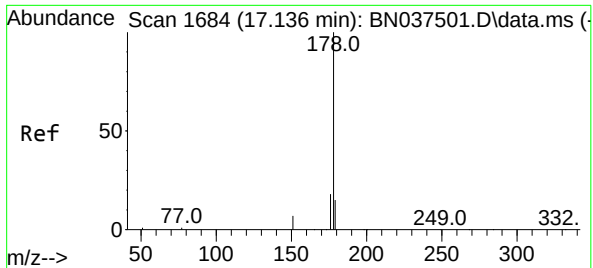
Ion Ratio Lower Upper

266 100

264 64.1 49.3 73.9

268 64.9 51.6 77.4

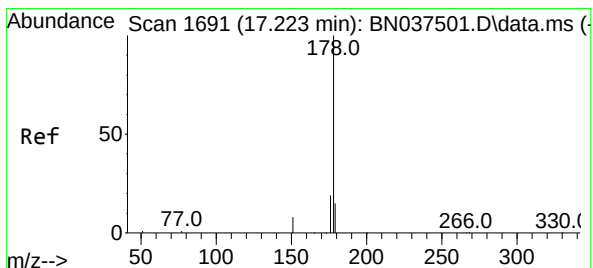
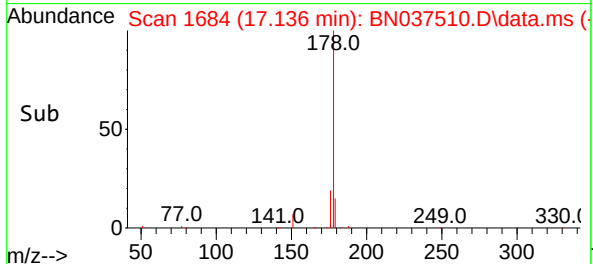
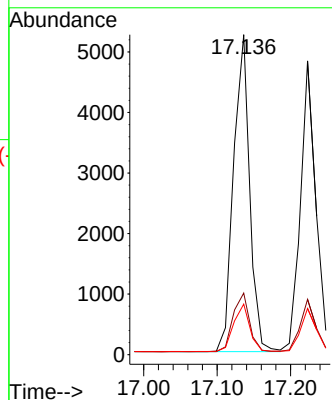
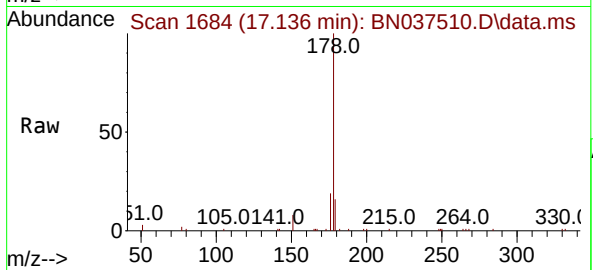




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

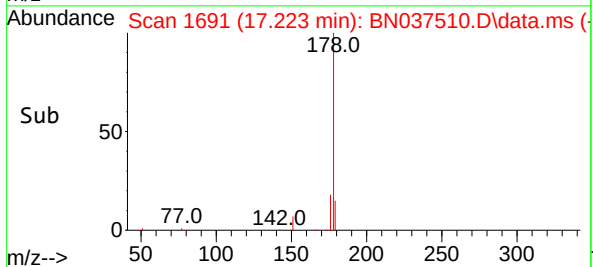
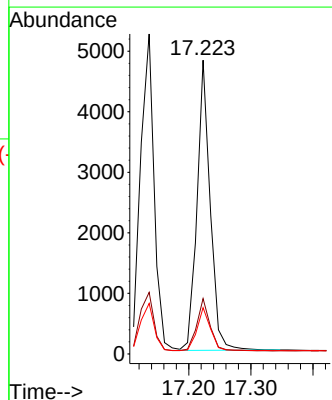
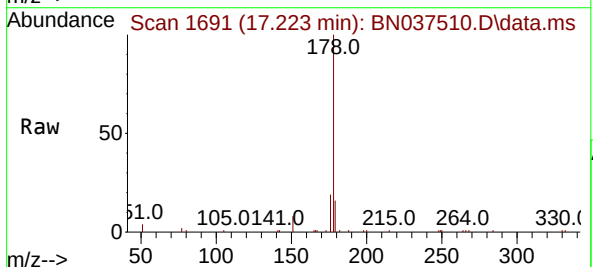
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

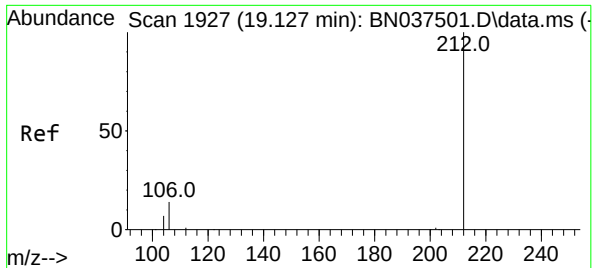
Tgt Ion:178 Resp: 7963
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.3 12.2 18.2



#26
Anthracene
Concen: 0.370 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion:178 Resp: 7060
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.4 12.3 18.5

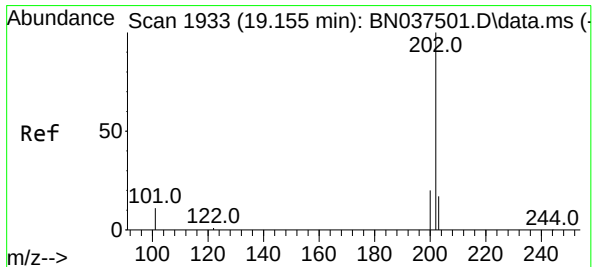
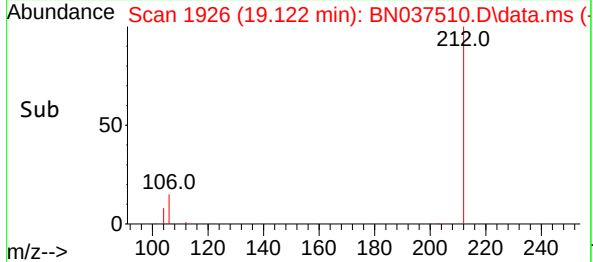
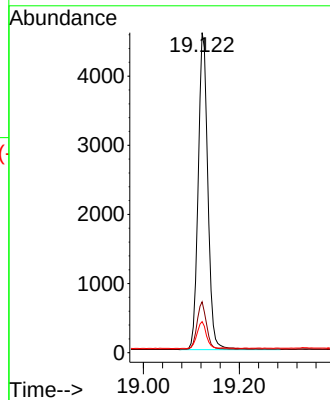
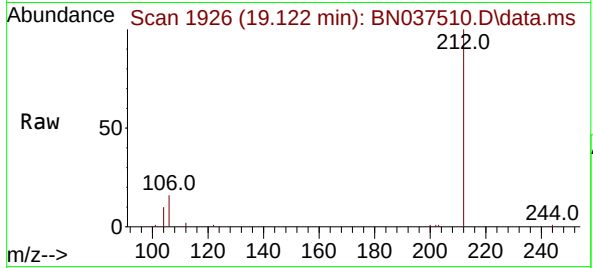




#27
Fluoranthene-d10
Concen: 0.348 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

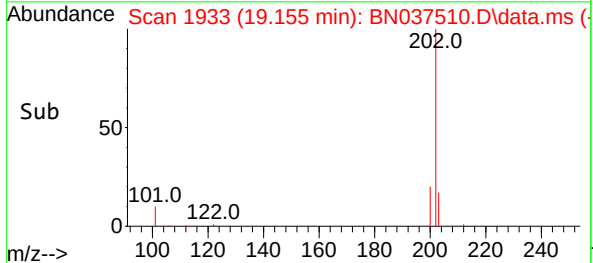
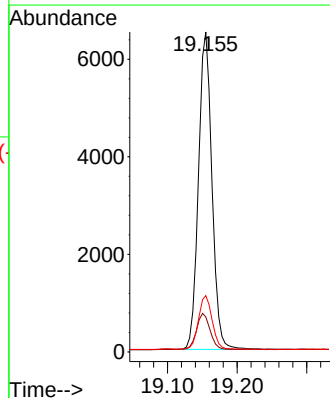
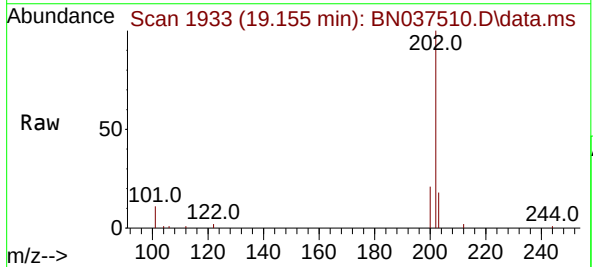
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

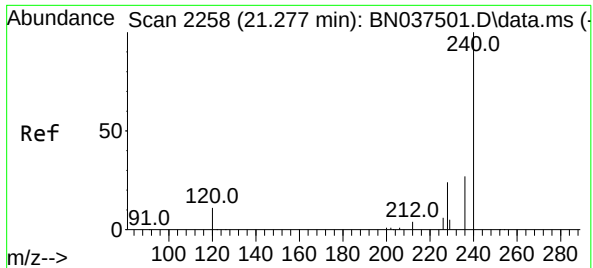
Tgt Ion:212 Resp: 6430
Ion Ratio Lower Upper
212 100
106 14.7 12.2 18.4
104 8.2 6.7 10.1



#28
Fluoranthene
Concen: 0.362 ng
RT: 19.155 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion:202 Resp: 8723
Ion Ratio Lower Upper
202 100
101 11.7 9.8 14.6
203 17.0 13.6 20.4

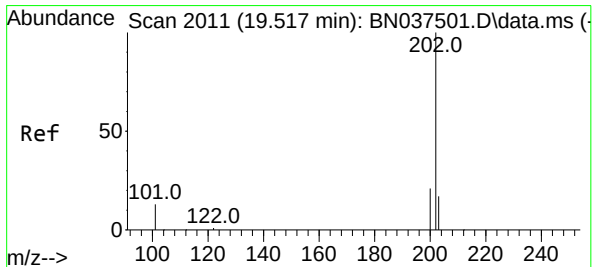
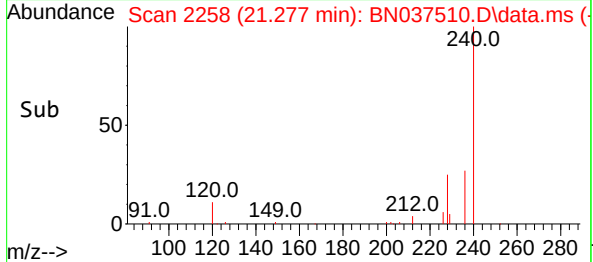
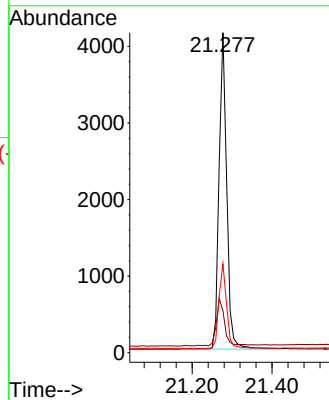
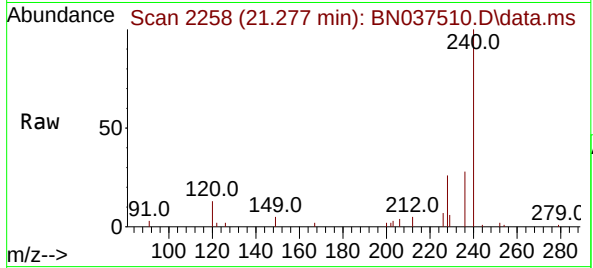




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

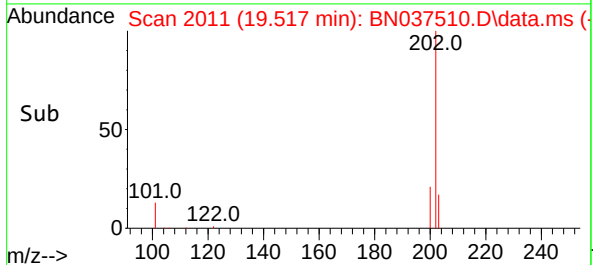
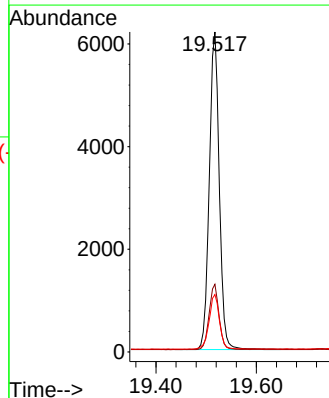
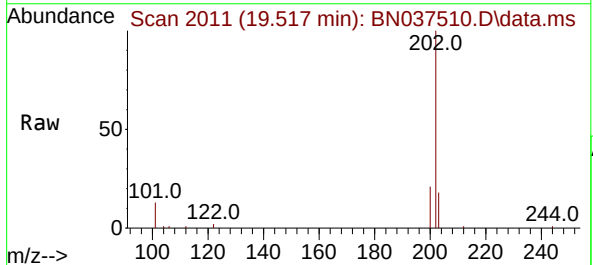
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

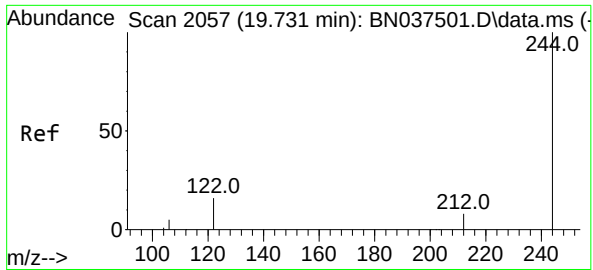
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.2	10.7	16.1
236	27.8	22.6	33.8



#30
Pyrene
Concen: 0.386 ng
RT: 19.517 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.5	24.7
203	17.8	14.3	21.5





#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

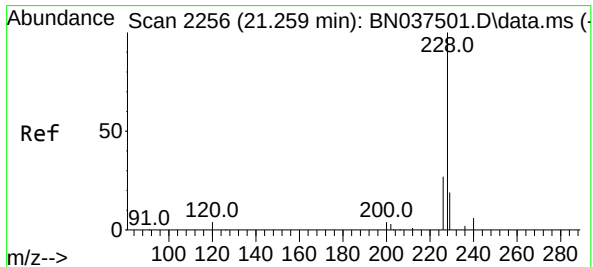
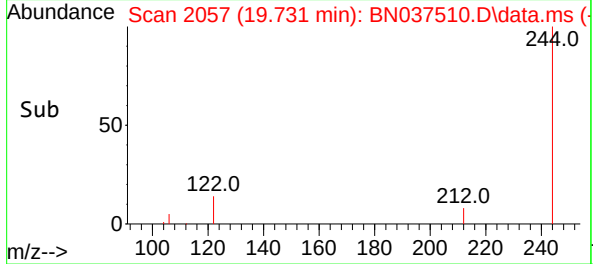
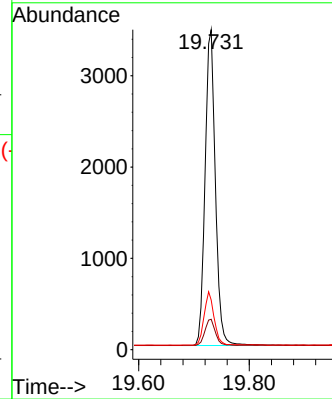
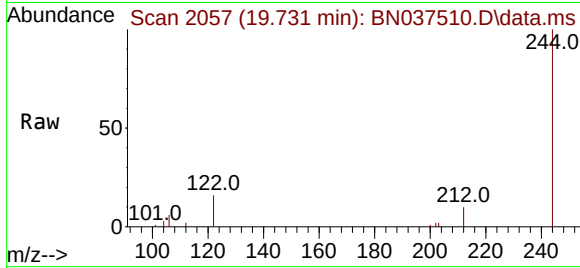
Instrument :

BNA_N

ClientSampleId :

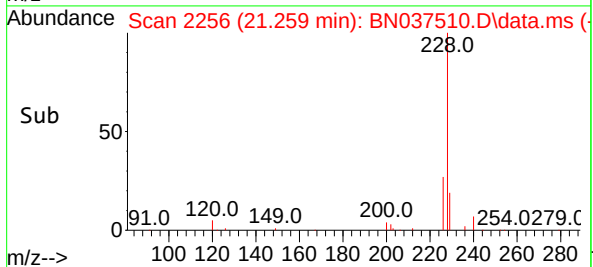
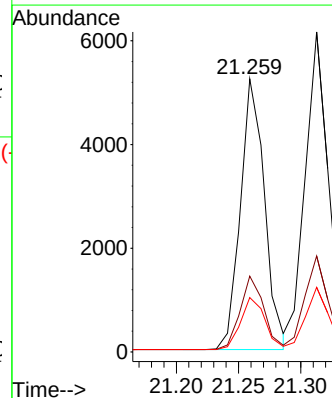
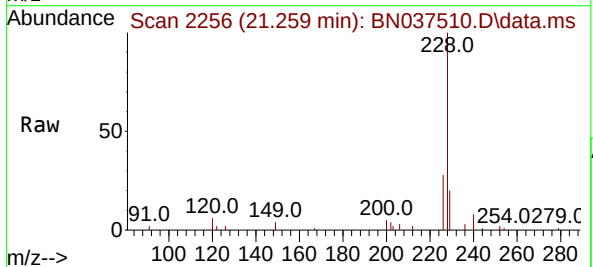
SSTDCCC0.4

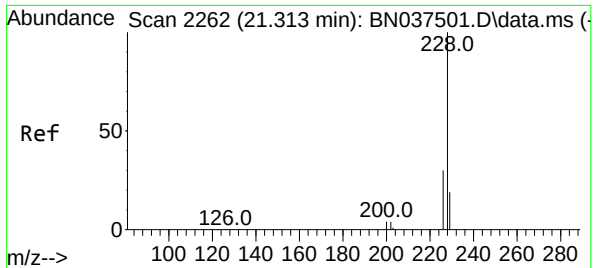
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.4	11.2
122	15.5	13.6	20.4



#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.9	32.9
229	19.9	15.8	23.8

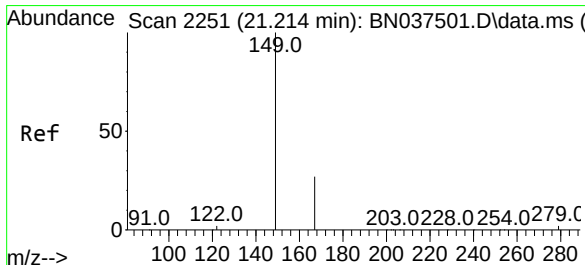
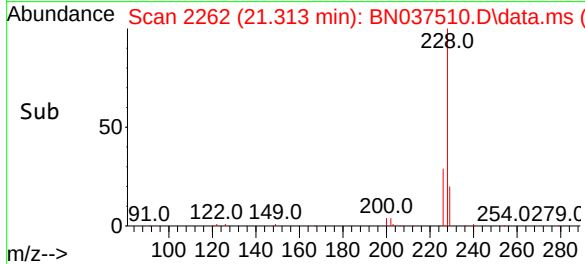
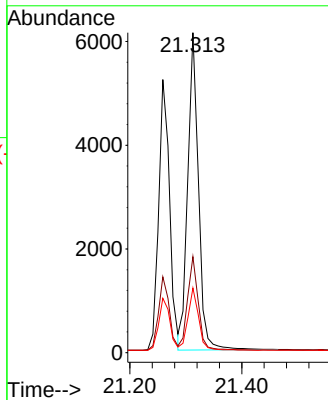
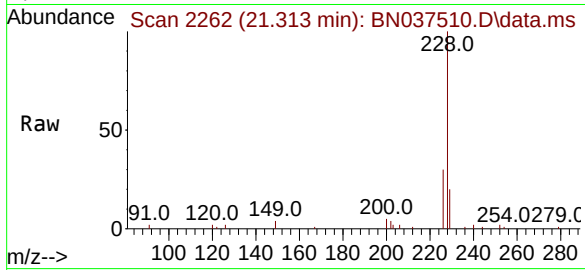




#33
Chrysene
Concen: 0.407 ng
RT: 21.313 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

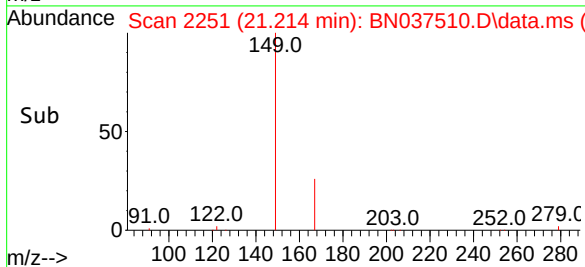
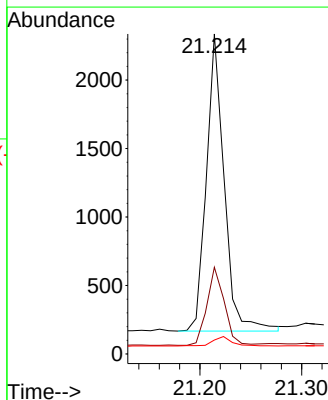
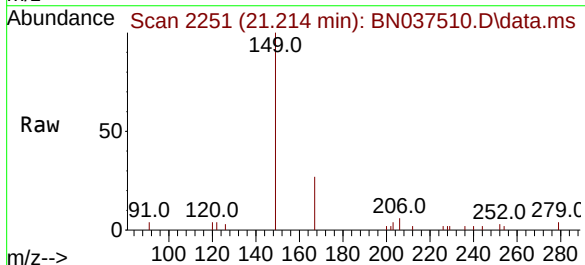
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

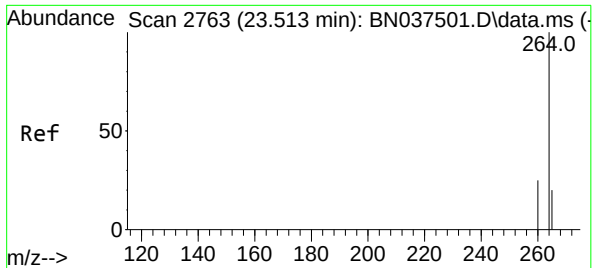
Tgt Ion:	228	Resp:	8149
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.2	36.4
229	20.2	16.1	24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.306 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN037510.D
Acq: 16 Jul 2025 09:50

Tgt Ion:	149	Resp:	2643
Ion Ratio	Lower	Upper	
149	100		
167	25.6	21.8	32.8
279	3.4	3.0	4.4

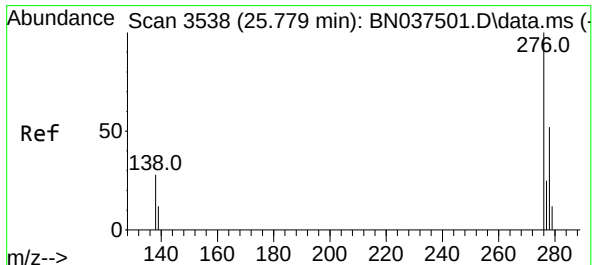
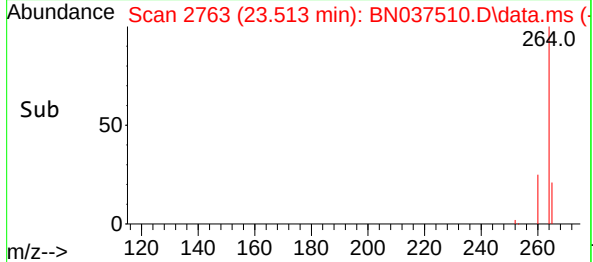
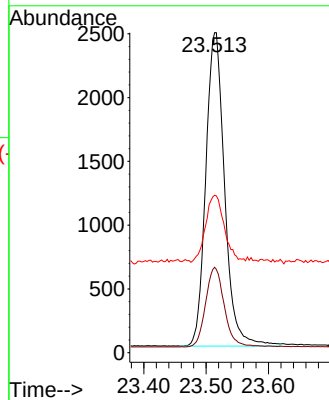
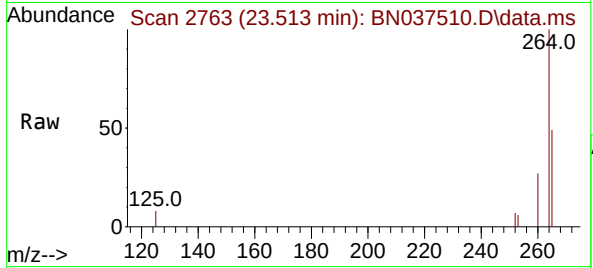




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.513 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN037510.D
 Acq: 16 Jul 2025 09:50

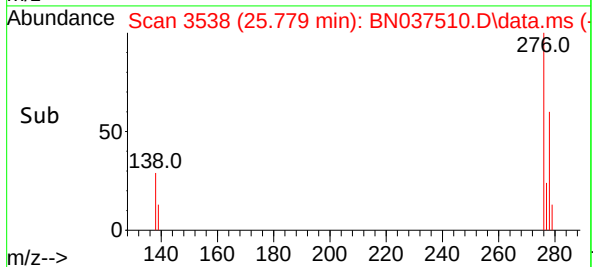
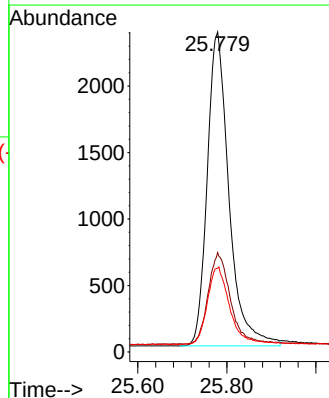
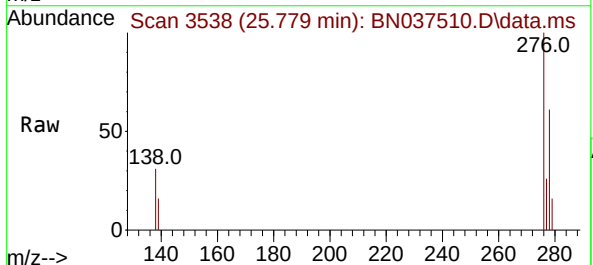
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

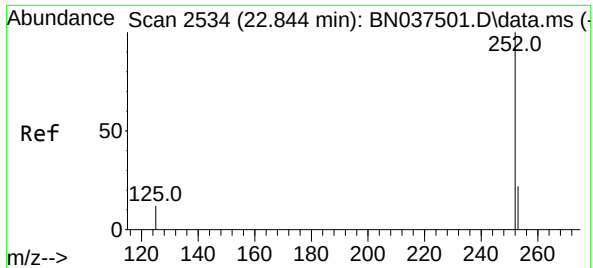
Tgt Ion:	264	Resp:	5154
Ion Ratio	Lower	Upper	
264	100		
260	26.7	21.2	31.8
265	49.2	40.4	60.6



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.373 ng
 RT: 25.779 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: BN037510.D
 Acq: 16 Jul 2025 09:50

Tgt Ion:	276	Resp:	8002
Ion Ratio	Lower	Upper	
276	100		
138	29.5	24.0	36.0
277	25.1	20.5	30.7





#37

Benzo(b)fluoranthene

Concen: 0.362 ng

RT: 22.844 min Scan# 2534

Delta R.T. 0.000 min

Lab File: BN037510.D

Acq: 16 Jul 2025 09:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

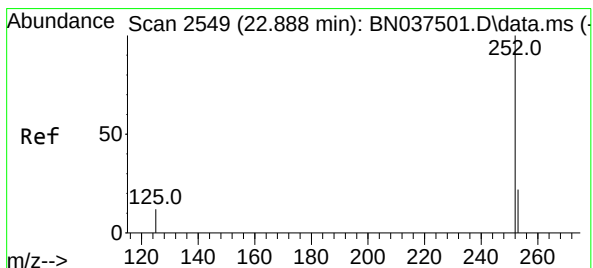
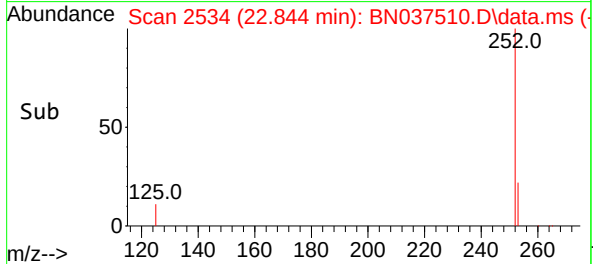
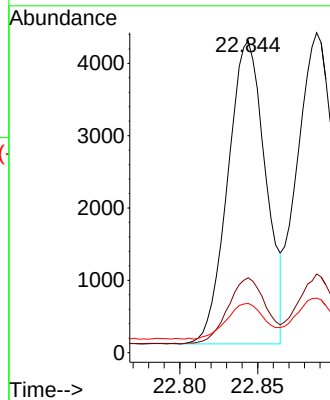
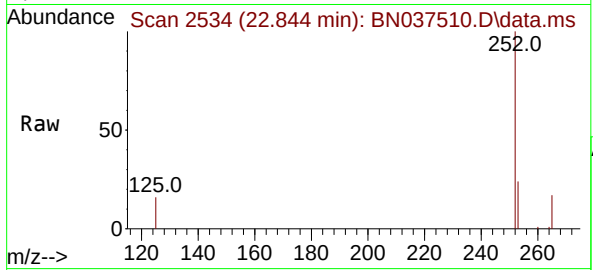
Tgt Ion:252 Resp: 7085

Ion Ratio Lower Upper

252 100

253 24.0 19.5 29.3

125 15.8 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.380 ng

RT: 22.888 min Scan# 2549

Delta R.T. 0.000 min

Lab File: BN037510.D

Acq: 16 Jul 2025 09:50

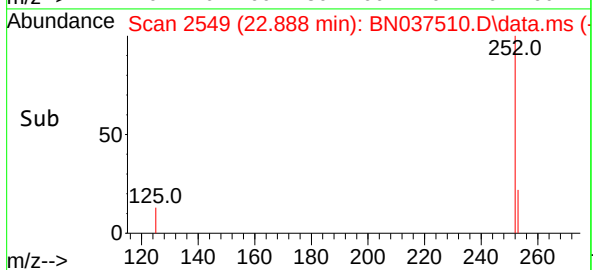
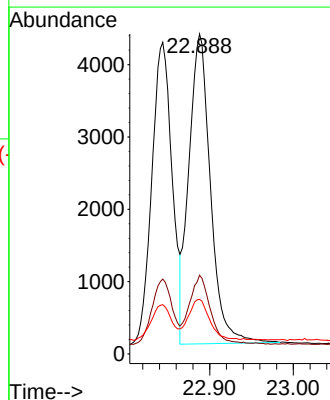
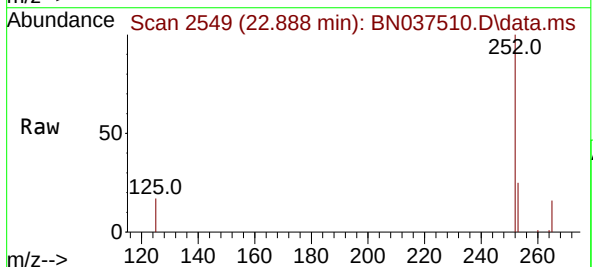
Tgt Ion:252 Resp: 7678

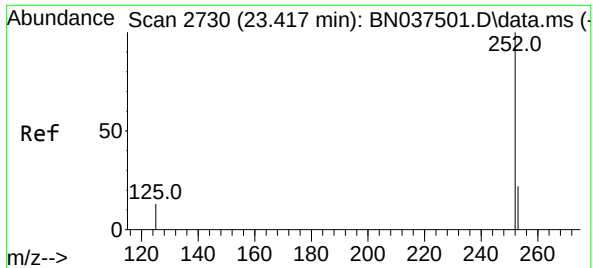
Ion Ratio Lower Upper

252 100

253 24.6 19.5 29.3

125 17.1 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.417 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037510.D

Acq: 16 Jul 2025 09:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

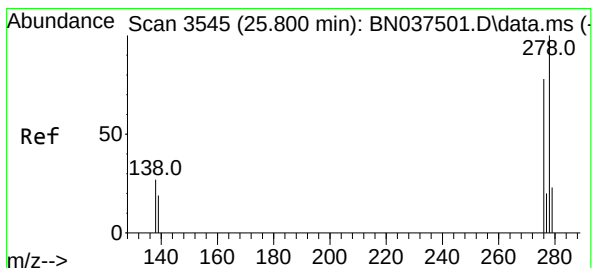
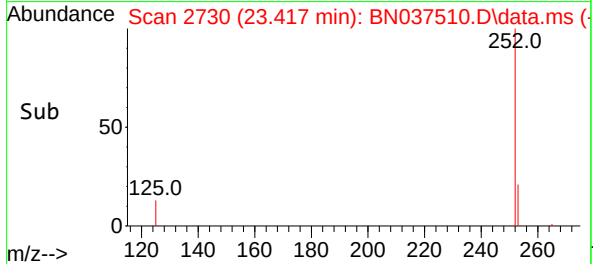
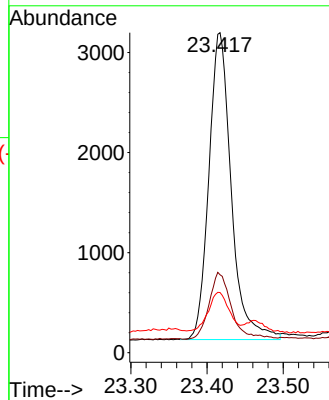
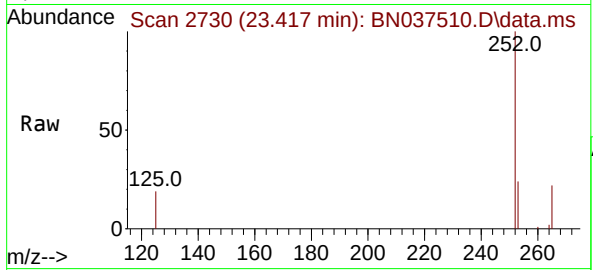
Tgt Ion:252 Resp: 6249

Ion Ratio Lower Upper

252 100

253 24.3 19.9 29.9

125 18.8 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.366 ng

RT: 25.794 min Scan# 3543

Delta R.T. -0.006 min

Lab File: BN037510.D

Acq: 16 Jul 2025 09:50

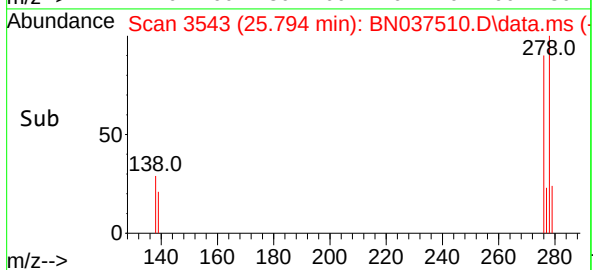
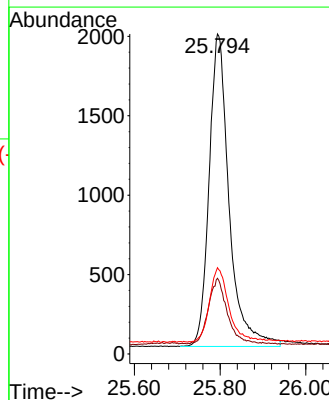
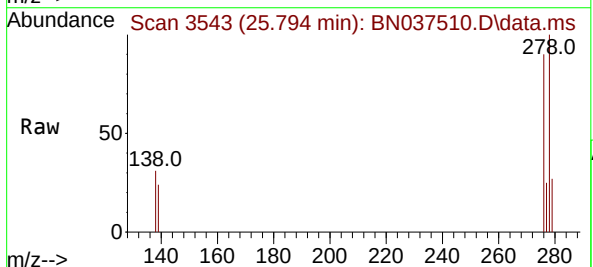
Tgt Ion:278 Resp: 6362

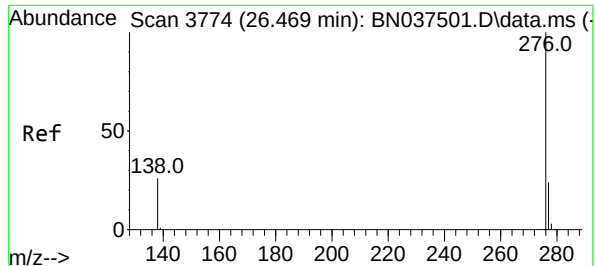
Ion Ratio Lower Upper

278 100

139 23.7 17.5 26.3

279 26.9 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.361 ng

RT: 26.463 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037510.D

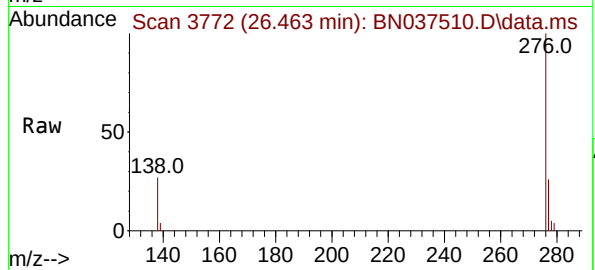
Acq: 16 Jul 2025 09:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



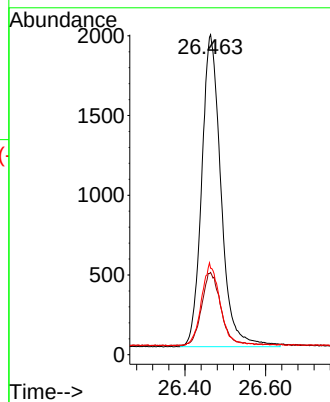
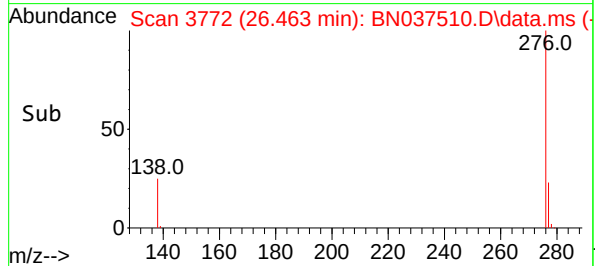
Tgt Ion:276 Resp: 6501

Ion Ratio Lower Upper

276 100

277 25.7 20.9 31.3

138 27.0 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
 Data File : BN037510.D
 Acq On : 16 Jul 2025 09:50
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 16 10:53:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 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	107	0.00
2	1,4-Dioxane	0.385	0.402	-4.4	109	0.00
3	n-Nitrosodimethylamine	0.484	0.470	2.9	108	0.00
4 S	2-Fluorophenol	0.989	0.945	4.4	103	0.00
5 S	Phenol-d6	1.241	1.176	5.2	106	0.00
6	bis(2-Chloroethyl)ether	1.033	1.037	-0.4	108	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	109	0.00
8 S	Nitrobenzene-d5	0.299	0.281	6.0	108	0.00
9	Naphthalene	1.067	1.029	3.6	107	0.00
10	Hexachlorobutadiene	0.236	0.229	3.0	106	-0.01
11 SURR	2-Methylnaphthalene-d10	0.574	0.534	7.0	107	0.00
12	2-Methylnaphthalene	0.701	0.659	6.0	106	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
14 S	2,4,6-Tribromophenol	0.197	0.158	19.8	98	0.00
15 S	2-Fluorobiphenyl	2.080	2.104	-1.2	110	0.00
16	Acenaphthylene	1.792	1.744	2.7	108	0.00
17	Acenaphthene	1.218	1.158	4.9	105	0.00
18	Fluorene	1.569	1.520	3.1	109	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	108	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.038	33.3#	99	0.00
21	4-Bromophenyl-phenylether	0.256	0.241	5.9	107	0.00
22	Hexachlorobenzene	0.331	0.325	1.8	107	0.00
23	Atrazine	0.179	0.142	20.7	97	0.00
24	Pentachlorophenol	0.149	0.106	28.9#	92	-0.01
25	Phenanthrene	1.198	1.140	4.8	106	0.00
26	Anthracene	1.093	1.011	7.5	108	0.00
27 SURR	Fluoranthene-d10	1.060	0.921	13.1	103	0.00
28	Fluoranthene	1.382	1.249	9.6	104	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	105	0.00
30	Pyrene	1.612	1.555	3.5	102	0.00
31 S	Terphenyl-d14	0.859	0.818	4.8	102	0.00
32	Benzo(a)anthracene	1.401	1.283	8.4	101	0.00
33	Chrysene	1.459	1.485	-1.8	109	0.00
34	Bis(2-ethylhexyl)phthalate	0.630	0.482	23.5	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	107	0.00
36	Indeno(1,2,3-cd)pyrene	1.666	1.553	6.8	110	0.00
37	Benzo(b)fluoranthene	1.518	1.375	9.4	101	0.00
38	Benzo(k)fluoranthene	1.567	1.490	4.9	107	0.00
39 C	Benzo(a)pyrene	1.267	1.212	4.3	109	0.00
40	Dibenzo(a,h)anthracene	1.349	1.234	8.5	109	0.00
41	Benzo(g,h,i)perylene	1.397	1.261	9.7	103	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
 Data File : BN037510.D
 Acq On : 16 Jul 2025 09:50
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 16 10:53:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 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	107	0.00
2	1,4-Dioxane	0.400	0.418	-4.5	109	0.00
3	n-Nitrosodimethylamine	0.400	0.389	2.8	108	0.00
4 S	2-Fluorophenol	0.400	0.382	4.5	103	0.00
5 S	Phenol-d6	0.400	0.379	5.3	106	0.00
6	bis(2-Chloroethyl)ether	0.400	0.402	-0.5	108	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	109	0.00
8 S	Nitrobenzene-d5	0.400	0.376	6.0	108	0.00
9	Naphthalene	0.400	0.386	3.5	107	0.00
10	Hexachlorobutadiene	0.400	0.389	2.8	106	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.372	7.0	107	0.00
12	2-Methylnaphthalene	0.400	0.376	6.0	106	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	107	0.00
14 S	2,4,6-Tribromophenol	0.400	0.322	19.5	98	0.00
15 S	2-Fluorobiphenyl	0.400	0.405	-1.3	110	0.00
16	Acenaphthylene	0.400	0.389	2.8	108	0.00
17	Acenaphthene	0.400	0.380	5.0	105	0.00
18	Fluorene	0.400	0.388	3.0	109	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	108	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.371	7.3	99	0.00
21	4-Bromophenyl-phenylether	0.400	0.377	5.8	107	0.00
22	Hexachlorobenzene	0.400	0.392	2.0	107	0.00
23	Atrazine	0.400	0.319	20.3	97	0.00
24	Pentachlorophenol	0.400	0.287	28.3#	92	-0.01
25	Phenanthrene	0.400	0.381	4.8	106	0.00
26	Anthracene	0.400	0.370	7.5	108	0.00
27 SURR	Fluoranthene-d10	0.400	0.348	13.0	103	0.00
28	Fluoranthene	0.400	0.362	9.5	104	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	105	0.00
30	Pyrene	0.400	0.386	3.5	102	0.00
31 S	Terphenyl-d14	0.400	0.381	4.8	102	0.00
32	Benzo(a)anthracene	0.400	0.366	8.5	101	0.00
33	Chrysene	0.400	0.407	-1.7	109	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.306	23.5	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	107	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.373	6.8	110	0.00
37	Benzo(b)fluoranthene	0.400	0.362	9.5	101	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	107	0.00
39 C	Benzo(a)pyrene	0.400	0.383	4.3	109	0.00
40	Dibenzo(a,h)anthracene	0.400	0.366	8.5	109	0.00
41	Benzo(g,h,i)perylene	0.400	0.361	9.8	103	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:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2604</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>07/16/2025 15:34</u>
Lab File ID:	<u>BN037518.D</u>	Init. Calib. Date(s):	<u>07/15/2025 07/15/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>12:36 16:14</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.574	0.525		-8.5	50.0
Fluoranthene-d10	1.060	0.943		-11.0	50.0
2-Fluorophenol	0.989	0.896		-9.4	50.0
Phenol-d6	1.241	1.092		-12.0	50.0
Nitrobenzene-d5	0.299	0.280		-6.4	50.0
2-Fluorobiphenyl	2.080	2.170		4.3	50.0
2,4,6-Tribromophenol	0.197	0.155		-21.3	50.0
Terphenyl-d14	0.859	0.847		-1.4	50.0
1,4-Dioxane	0.385	0.391		1.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
 Data File : BN037518.D
 Acq On : 16 Jul 2025 15:34
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jul 16 16:04:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 2025
 Response via : Initial Calibration

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

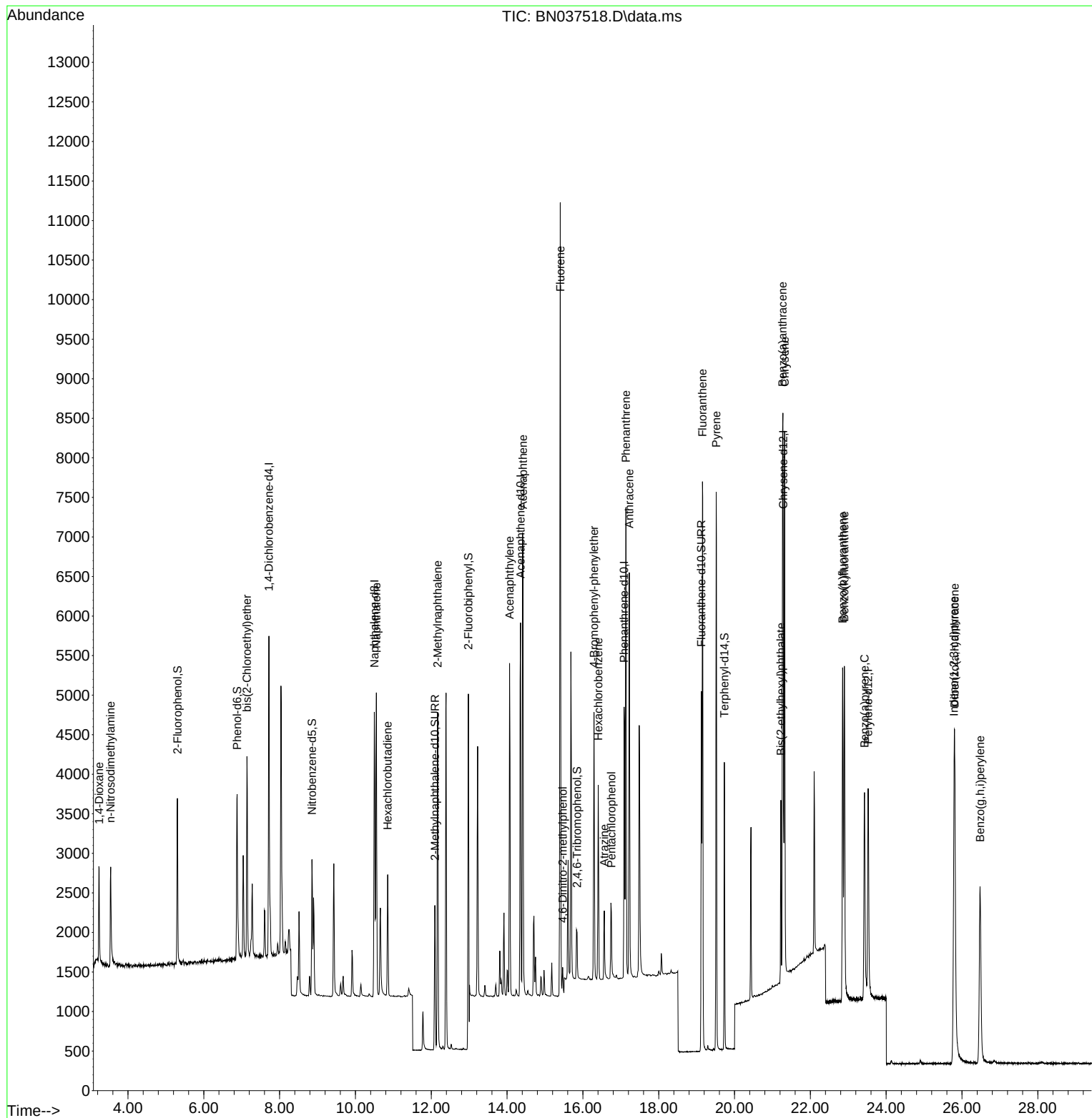
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1896	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4826	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	2701	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5265	0.400	ng	#-0.01
29) Chrysene-d12	21.286	240	4092	0.400	ng	0.00
35) Perylene-d12	23.525	264	3672	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1698	0.362	ng	0.00
5) Phenol-d6	6.880	99	2070	0.352	ng	0.00
8) Nitrobenzene-d5	8.854	82	1353	0.375	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2535	0.366	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	419	0.316	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	5861	0.417	ng	0.00
27) Fluoranthene-d10	19.127	212	4966	0.356	ng	0.00
31) Terphenyl-d14	19.731	244	3464	0.394	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.240	88	742	0.407	ng	99
3) n-Nitrosodimethylamine	3.543	42	991	0.432	ng	# 84
6) bis(2-Chloroethyl)ether	7.140	93	1867	0.381	ng	99
9) Naphthalene	10.552	128	4995	0.388	ng	99
10) Hexachlorobutadiene	10.851	225	1218	0.428	ng	# 99
12) 2-Methylnaphthalene	12.167	142	3209	0.379	ng	99
16) Acenaphthylene	14.067	152	4663	0.385	ng	99
17) Acenaphthene	14.420	154	3153	0.383	ng	97
18) Fluorene	15.403	166	4052	0.383	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	229	0.411	ng	88
21) 4-Bromophenyl-phenylether	16.292	248	1285	0.381	ng	99
22) Hexachlorobenzene	16.404	284	1804	0.414	ng	97
23) Atrazine	16.565	200	778	0.331	ng	97
24) Pentachlorophenol	16.751	266	582	0.298	ng	98
25) Phenanthrene	17.136	178	6119	0.388	ng	100
26) Anthracene	17.223	178	5335	0.371	ng	100
28) Fluoranthene	19.155	202	6566	0.361	ng	99
30) Pyrene	19.517	202	6489	0.394	ng	100
32) Benzo(a)anthracene	21.268	228	5158	0.360	ng	100
33) Chrysene	21.322	228	5905	0.396	ng	99
34) Bis(2-ethylhexyl)phtha...	21.223	149	2102	0.326	ng	96
36) Indeno(1,2,3-cd)pyrene	25.791	276	5640	0.369	ng	98
37) Benzo(b)fluoranthene	22.853	252	5333	0.383	ng	100
38) Benzo(k)fluoranthene	22.897	252	5612	0.390	ng	98
39) Benzo(a)pyrene	23.429	252	4135	0.356	ng	98
40) Dibenzo(a,h)anthracene	25.809	278	4587	0.370	ng	98
41) Benzo(g,h,i)perylene	26.478	276	4818	0.376	ng	99

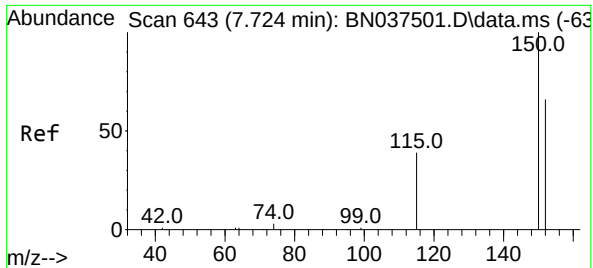
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037518.D
Acq On : 16 Jul 2025 15:34
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jul 16 16:04:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 16 02:38:11 2025
Response via : Initial Calibration

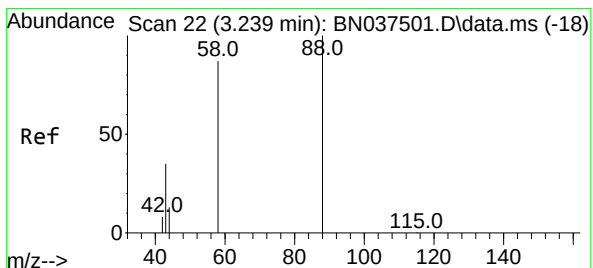
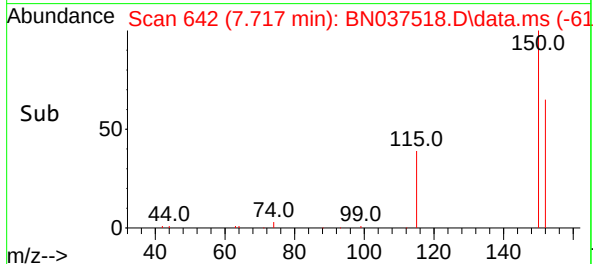
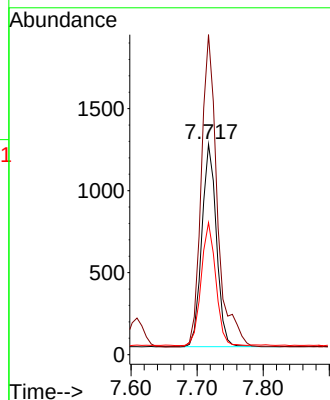
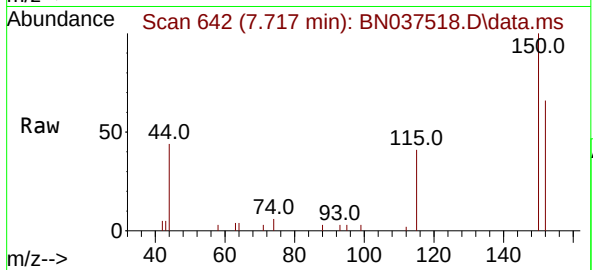




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

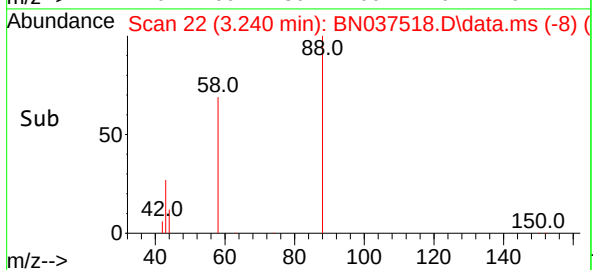
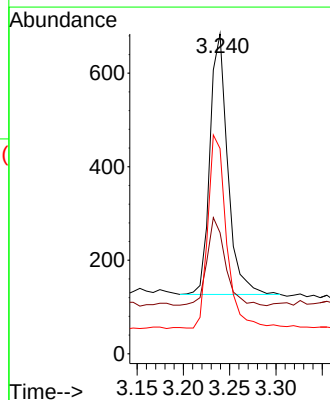
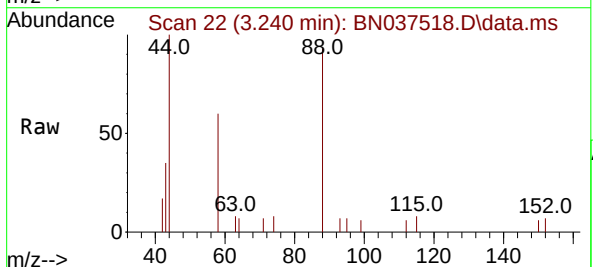
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

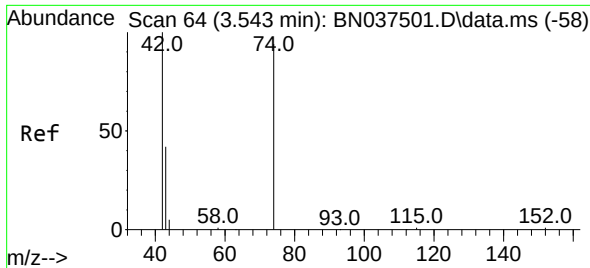
Tgt Ion:152 Resp: 1896
Ion Ratio Lower Upper
152 100
150 152.1 119.8 179.8
115 62.7 49.1 73.7



#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion: 88 Resp: 742
Ion Ratio Lower Upper
88 100
43 35.0 27.5 41.3
58 79.0 62.7 94.1

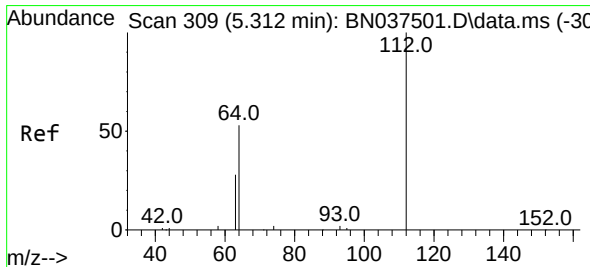
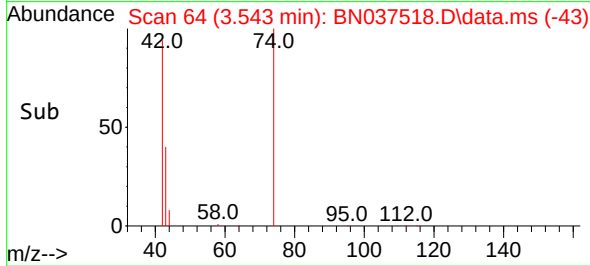
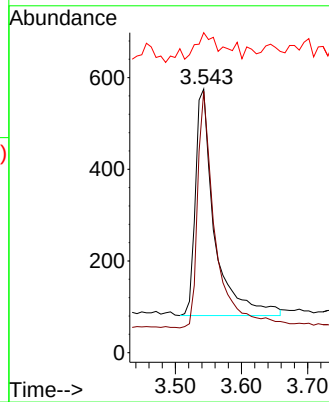
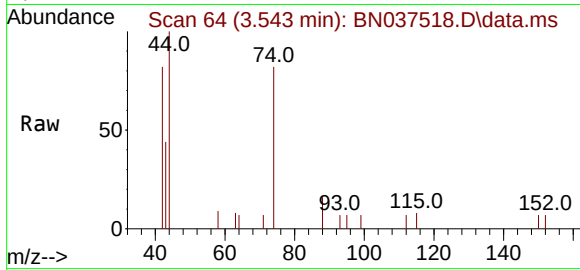




#3
n-Nitrosodimethylamine
Concen: 0.432 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

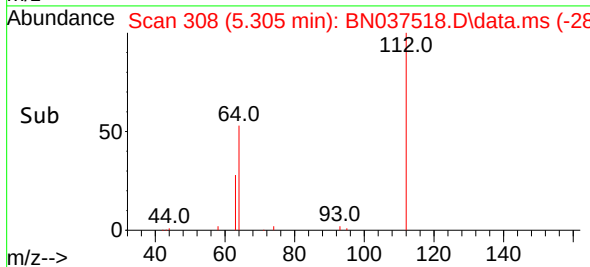
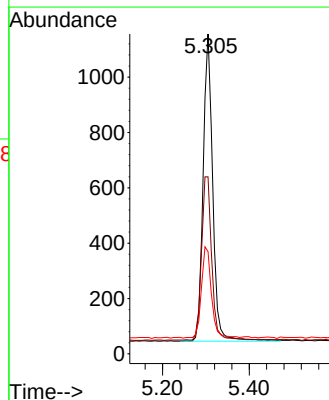
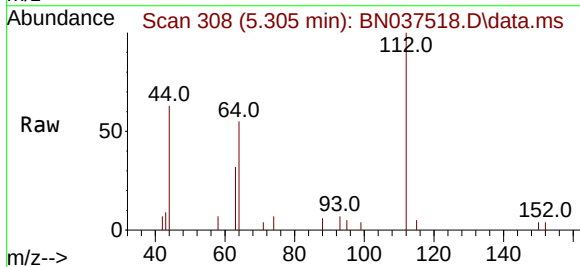
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

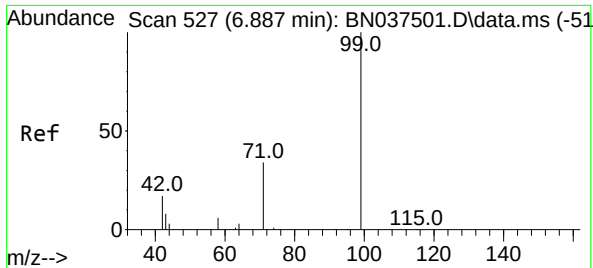
Tgt Ion: 42 Resp: 991
Ion Ratio Lower Upper
42 100
74 97.0 91.8 137.6
44 12.7 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion: 112 Resp: 1698
Ion Ratio Lower Upper
112 100
64 56.2 45.1 67.7
63 31.1 23.8 35.8

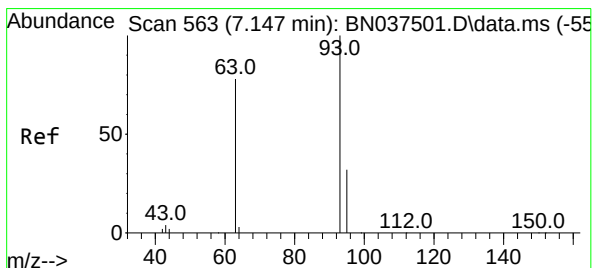
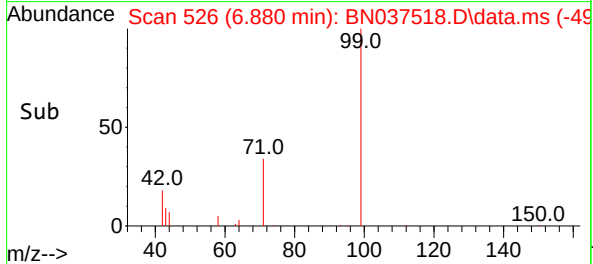
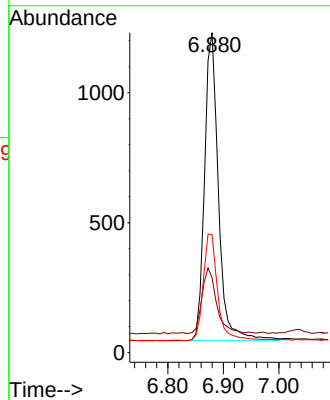
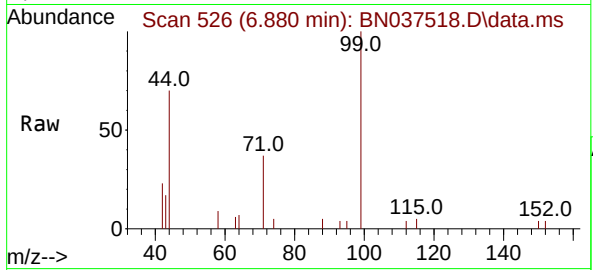




#5
Phenol-d6
Concen: 0.352 ng
RT: 6.880 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

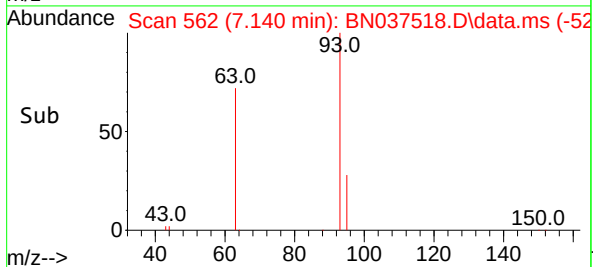
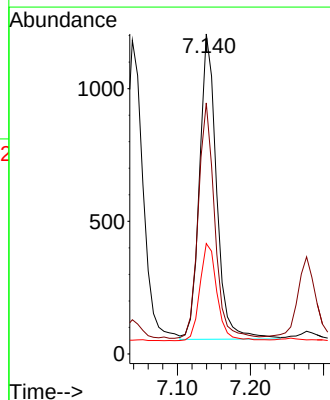
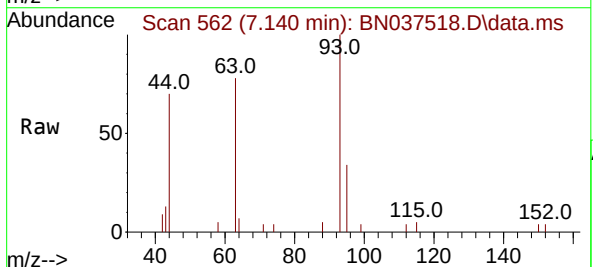
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

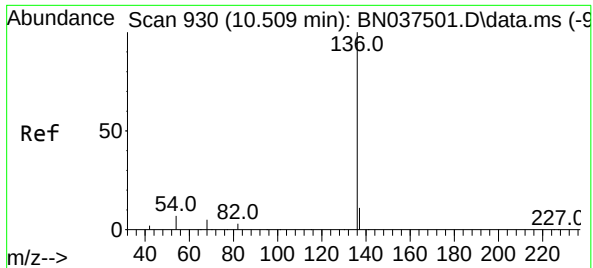
Tgt Ion: 99 Resp: 2070
Ion Ratio Lower Upper
99 100
42 22.4 17.1 25.7
71 36.2 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 7.140 min Scan# 562
Delta R.T. -0.007 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion: 93 Resp: 1867
Ion Ratio Lower Upper
93 100
63 74.0 58.2 87.4
95 32.1 25.3 37.9

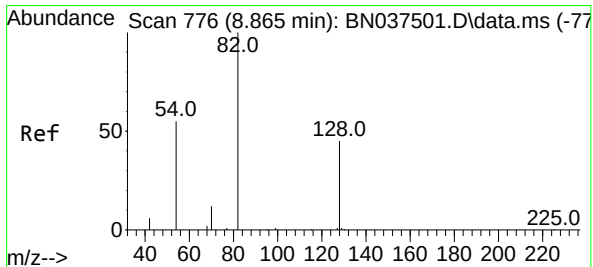
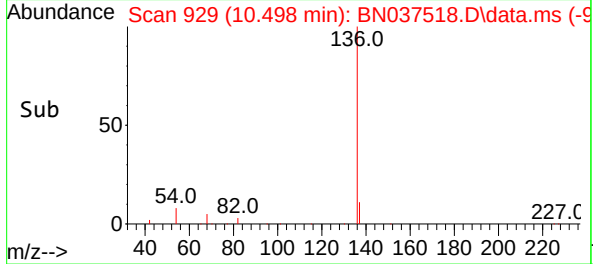
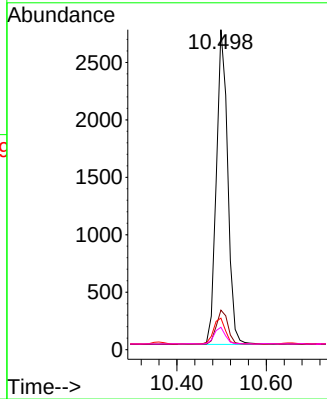
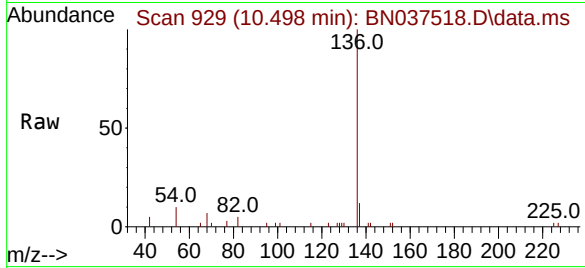




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

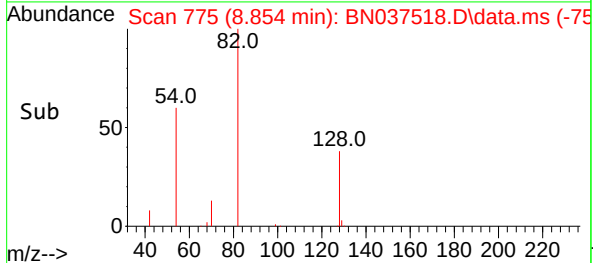
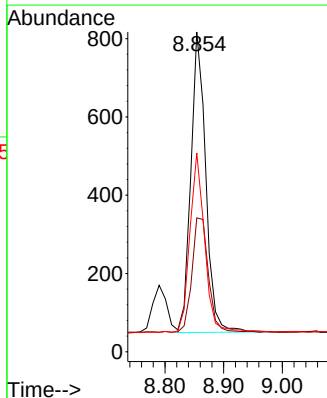
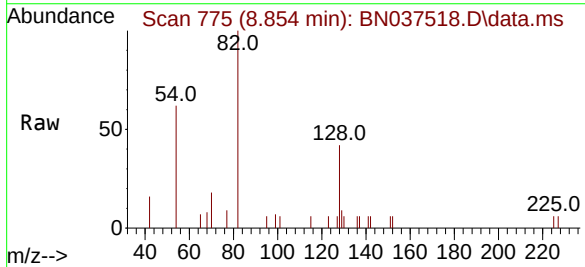
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

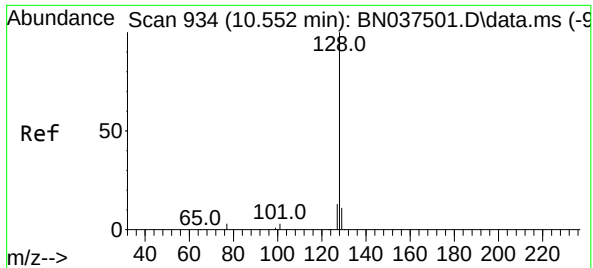
Tgt Ion:	136	Resp:	4826
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.8	14.8
54	9.8	6.6	9.8
68	7.0	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.375 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.011 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:	82	Resp:	1353
Ion	Ratio	Lower	Upper
82	100		
128	41.9	37.5	56.3
54	62.2	45.3	67.9

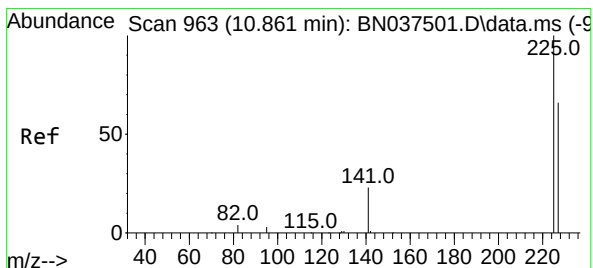
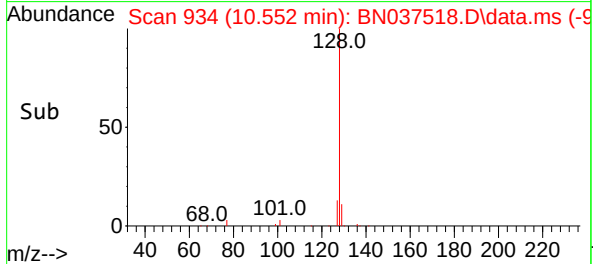
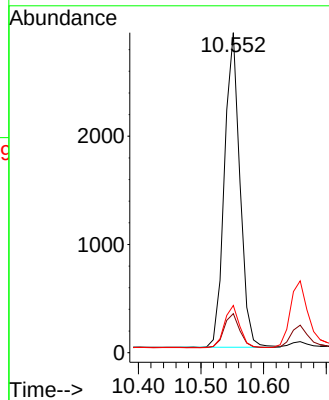
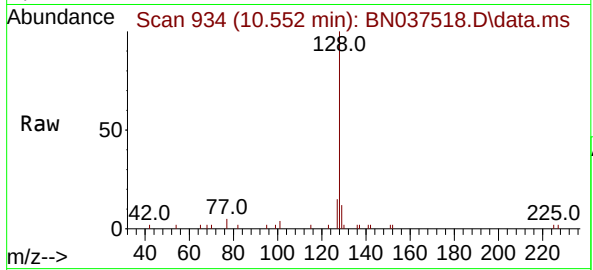




#9
Naphthalene
Concen: 0.388 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

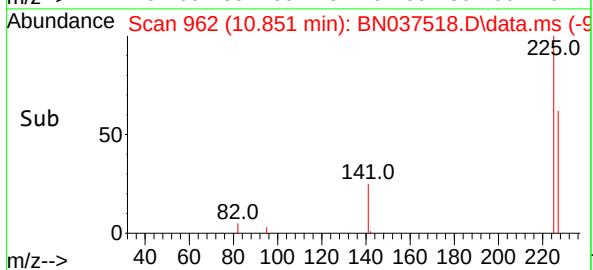
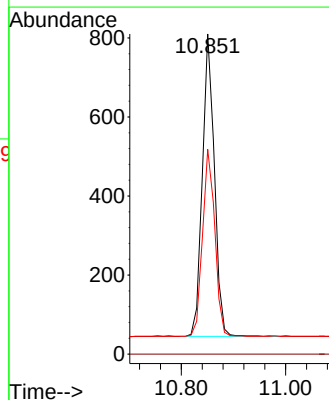
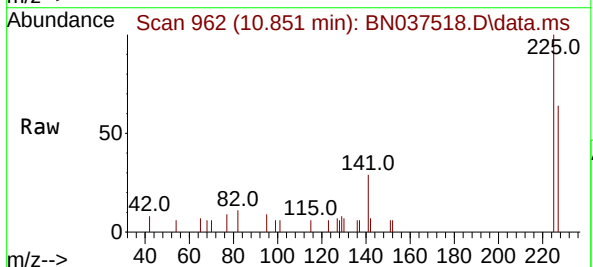
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

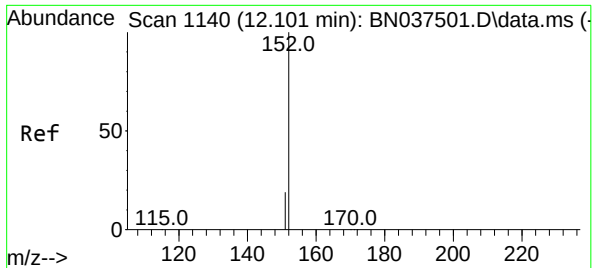
Tgt Ion:	128	Resp:	4995
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.7	14.5
127	14.7	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.851 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:	225	Resp:	1218
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.0	76.4

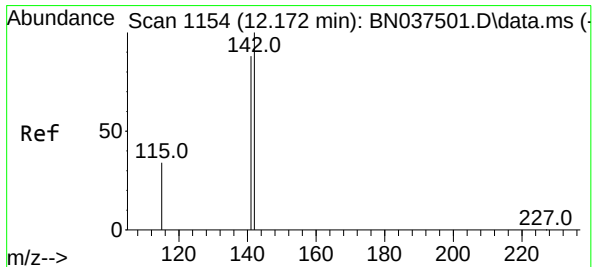
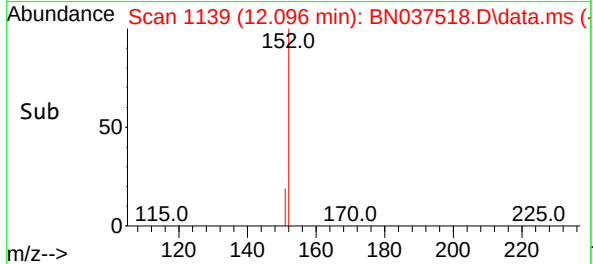
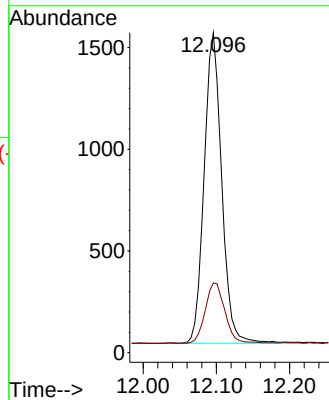
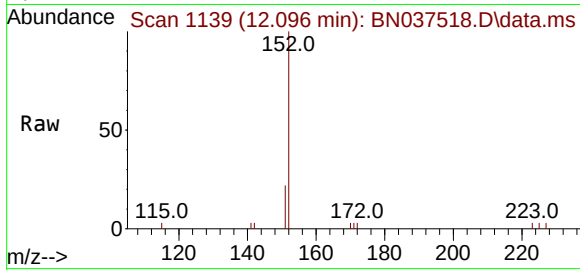




#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

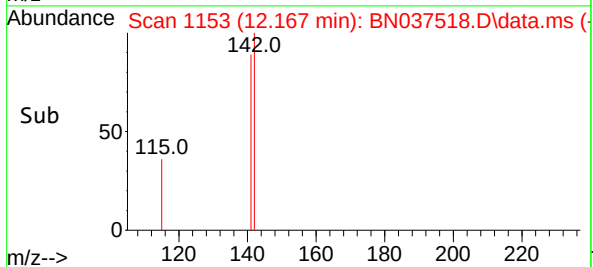
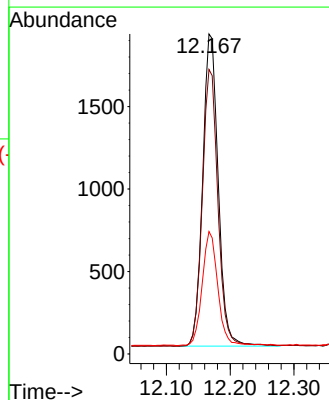
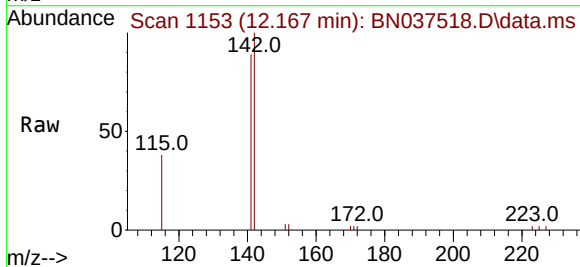
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

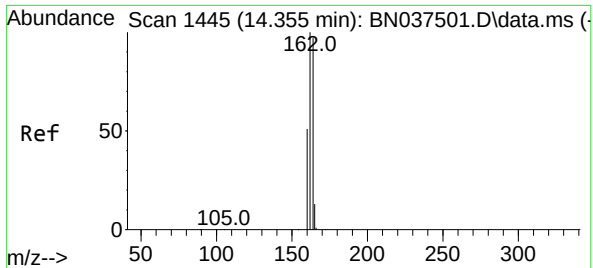
Tgt Ion:152 Resp: 2535
Ion Ratio Lower Upper
152 100
151 21.7 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.379 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:142 Resp: 3209
Ion Ratio Lower Upper
142 100
141 88.9 71.0 106.4
115 38.2 29.0 43.4

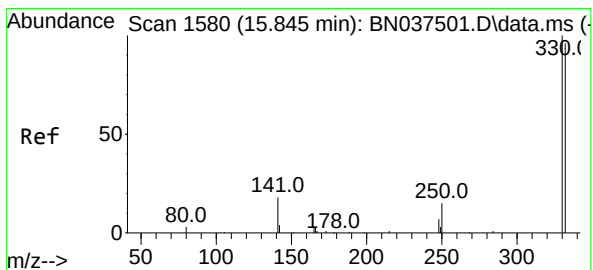
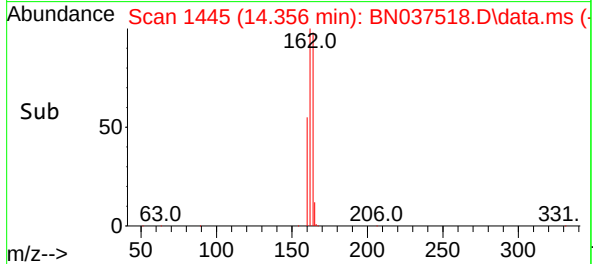
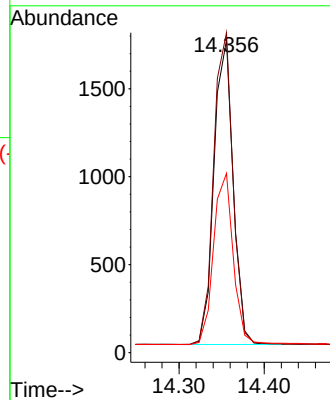
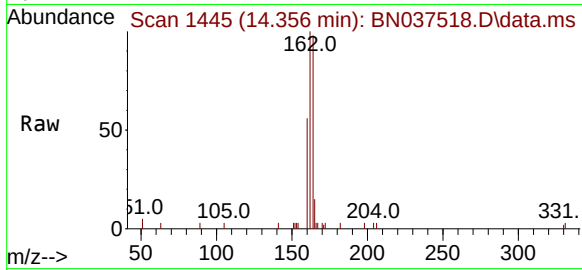




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

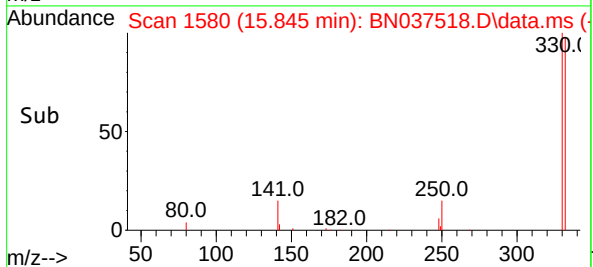
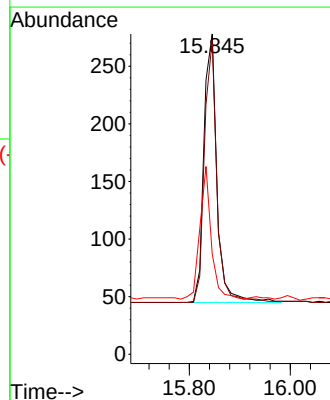
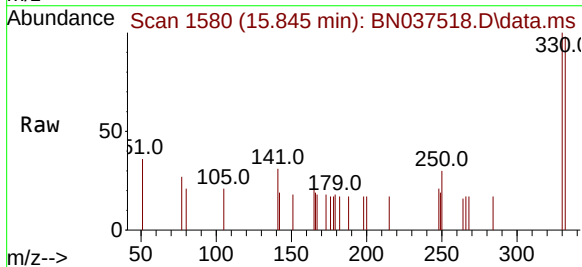
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

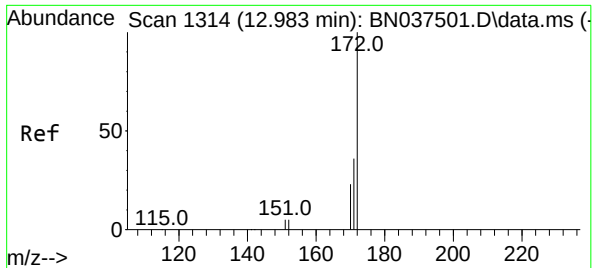
Tgt Ion:	164	Resp:	2701
Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.0	123.0
160	57.3	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.316 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:	330	Resp:	419
Ion	Ratio	Lower	Upper
330	100		
332	93.3	76.1	114.1
141	42.7	33.4	50.0

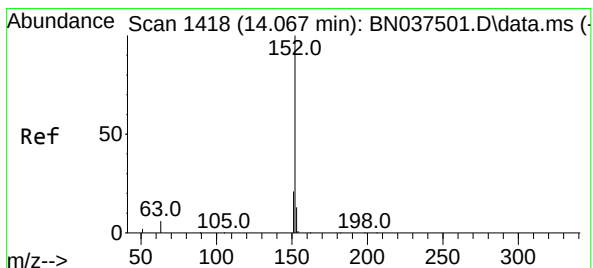
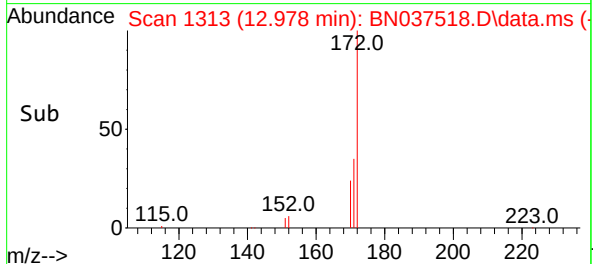
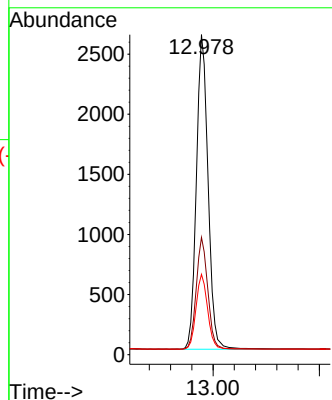
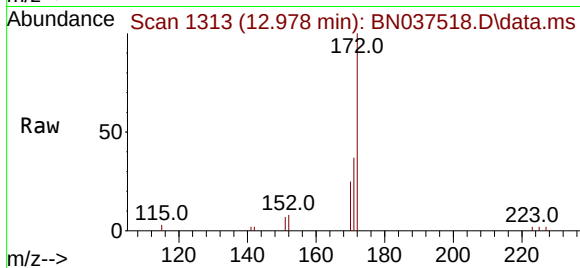




#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

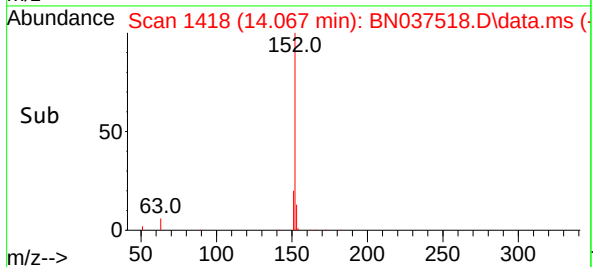
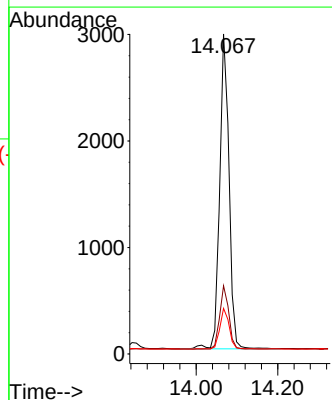
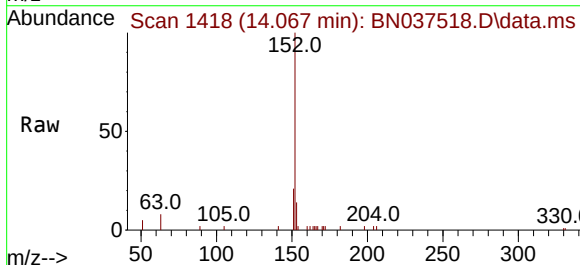
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

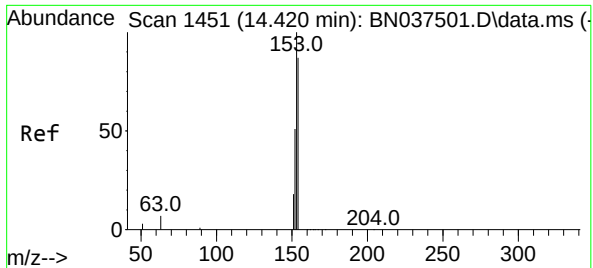
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.4	44.2
170	25.1	19.4	29.0



#16
Acenaphthylene
Concen: 0.385 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.9	23.9
153	12.8	10.7	16.1

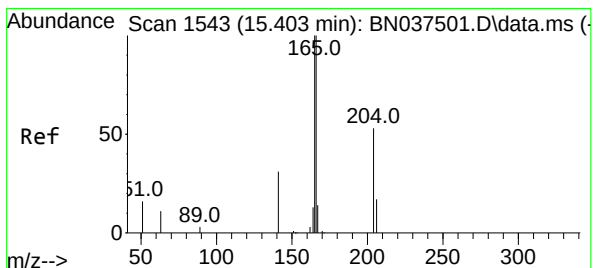
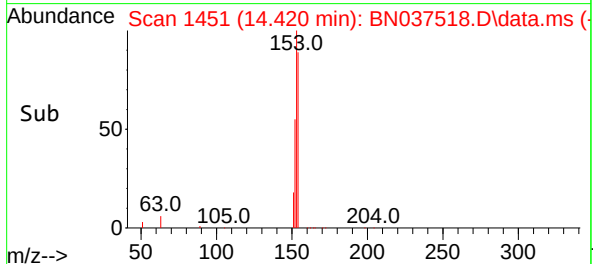
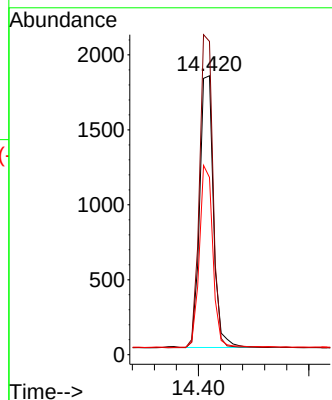
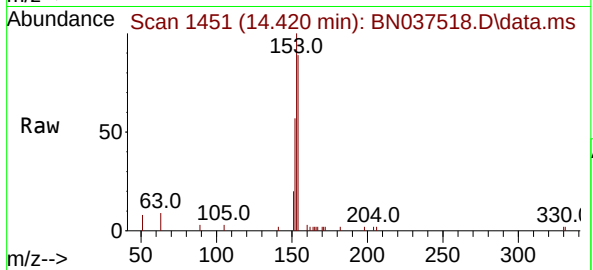




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

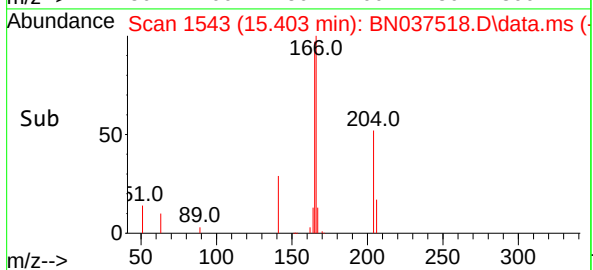
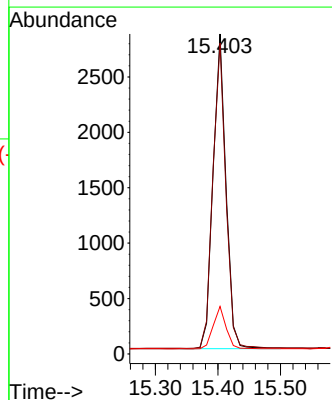
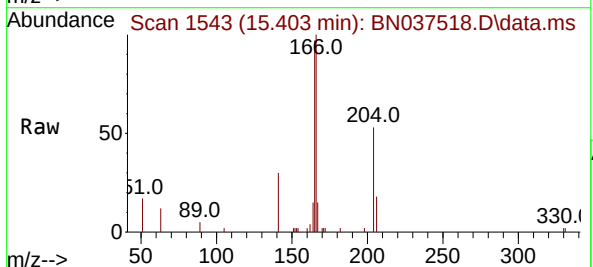
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

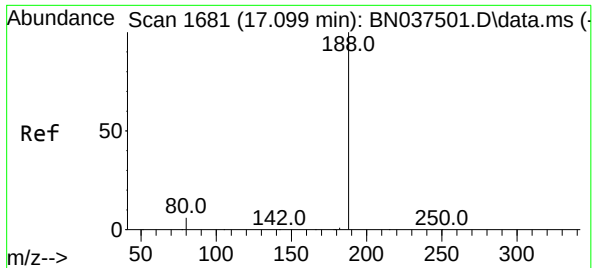
Tgt Ion	154	153	152
Resp:	3153		
Ion Ratio	100	112.4	65.0
Lower		89.2	48.0
Upper		133.8	72.0



#18
Fluorene
Concen: 0.383 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion	166	165	167
Resp:	4052		
Ion Ratio	100	99.3	13.5
Lower		78.1	11.0
Upper		117.1	16.6

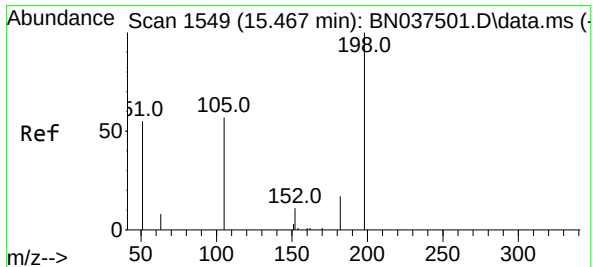
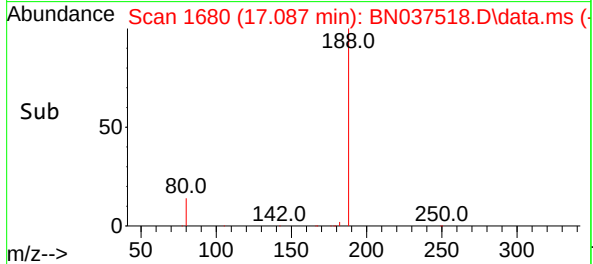
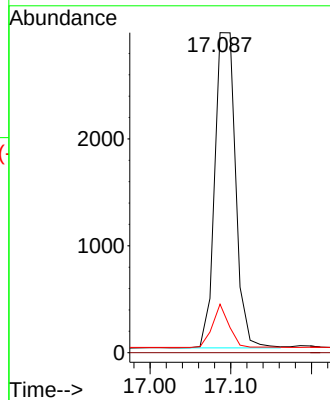
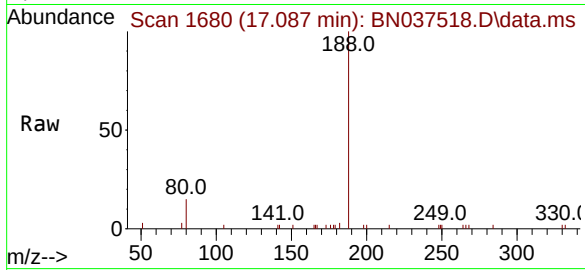




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

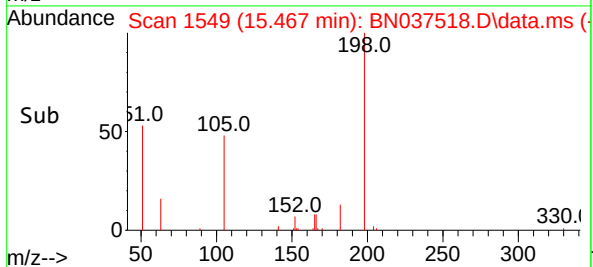
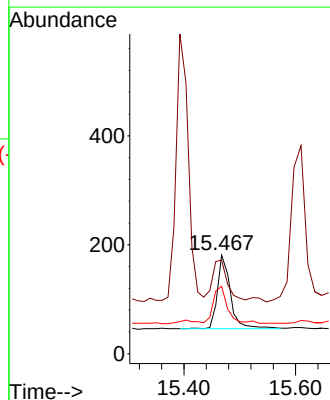
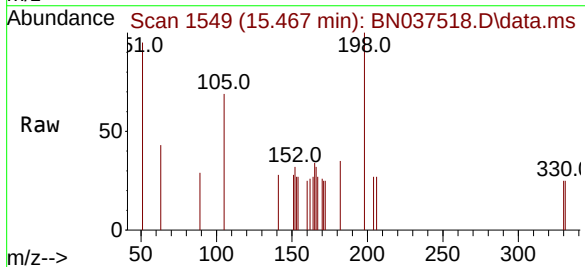
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

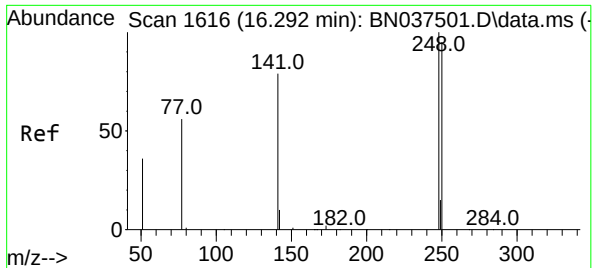
Tgt Ion:188 Resp: 5265
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.1 6.0 9.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.411 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:198 Resp: 229
Ion Ratio Lower Upper
198 100
51 95.0 88.5 132.7
105 68.5 61.2 91.8

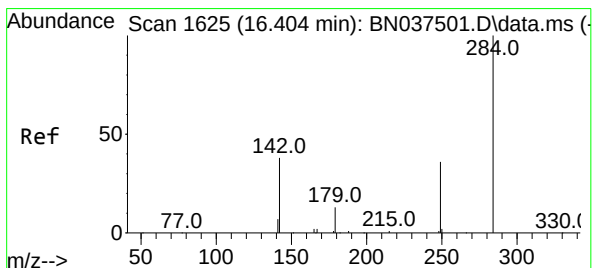
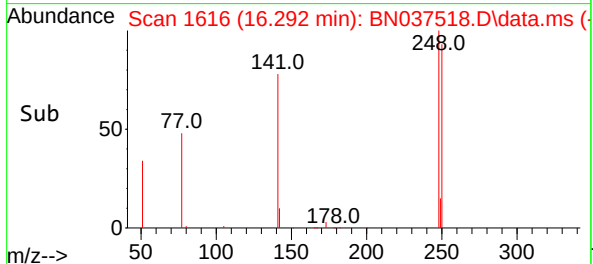
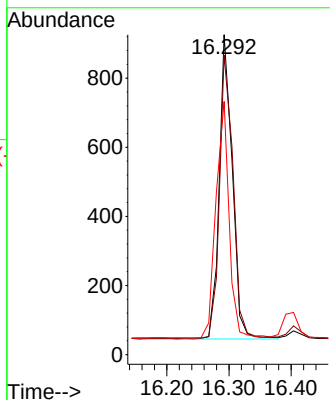
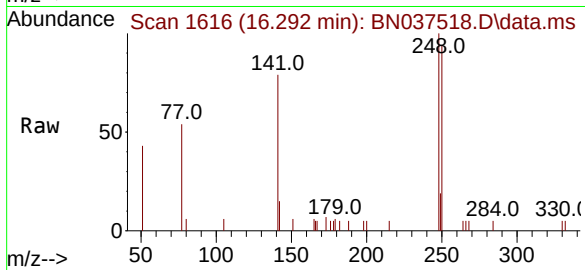




#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

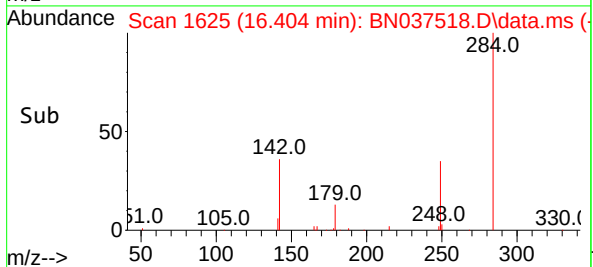
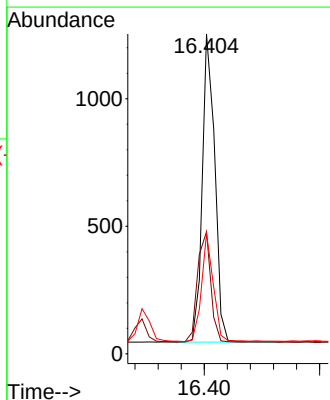
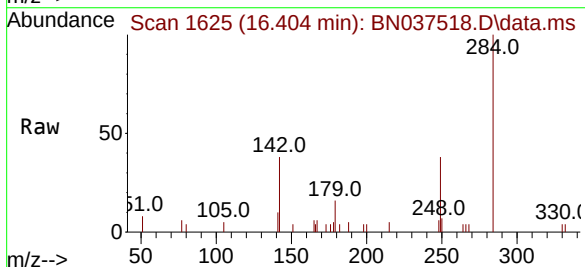
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

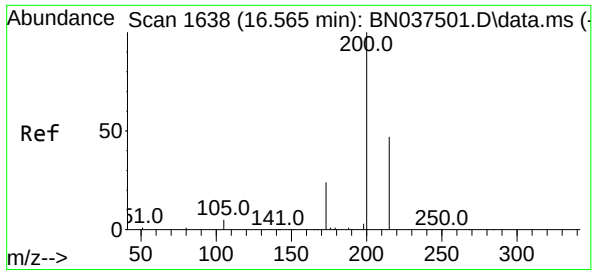
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.6	76.2	114.2
141	79.2	63.9	95.9



#22
Hexachlorobenzene
Concen: 0.414 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	28.9	43.3
249	33.8	25.8	38.6

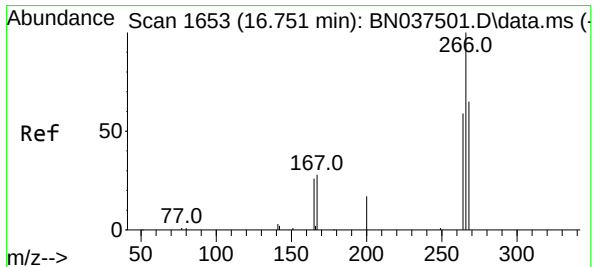
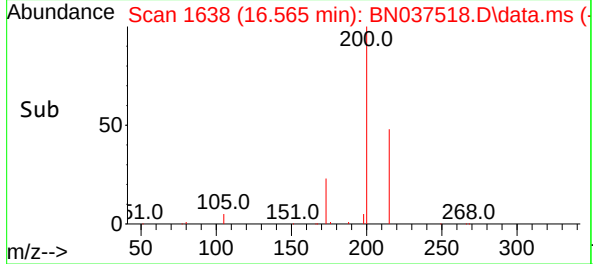
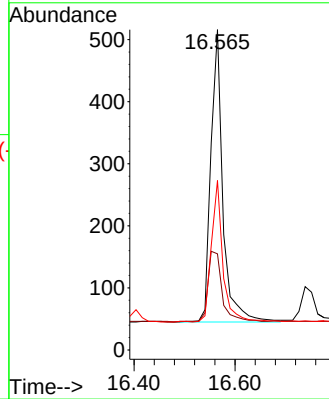
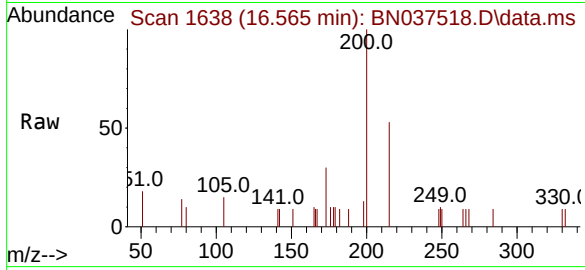




#23
Atrazine
Concen: 0.331 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

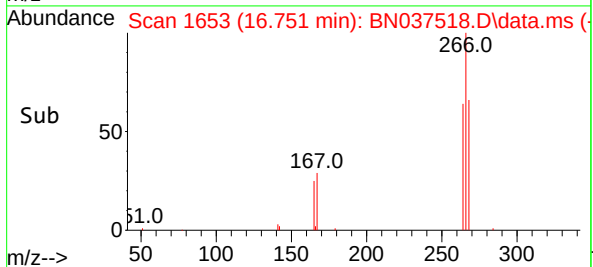
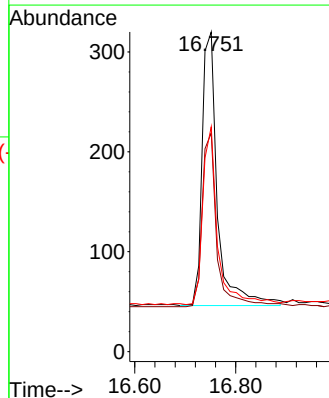
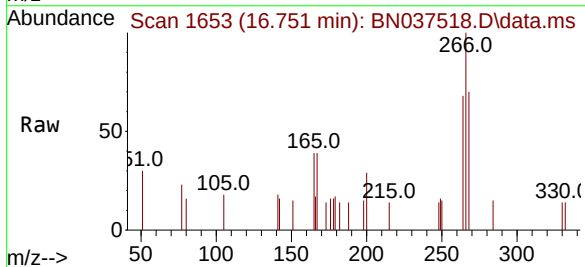
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

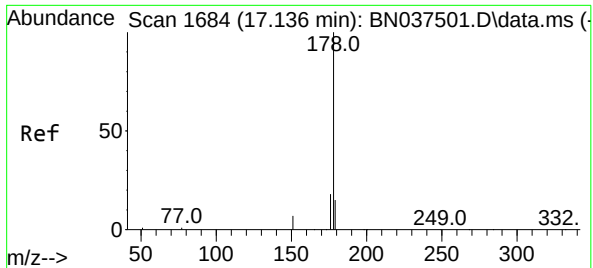
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.0	23.2	34.8
215	52.9	40.2	60.4



#24
Pentachlorophenol
Concen: 0.298 ng
RT: 16.751 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.3	49.3	73.9
268	62.5	51.6	77.4

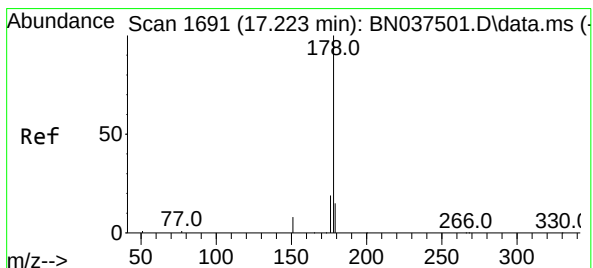
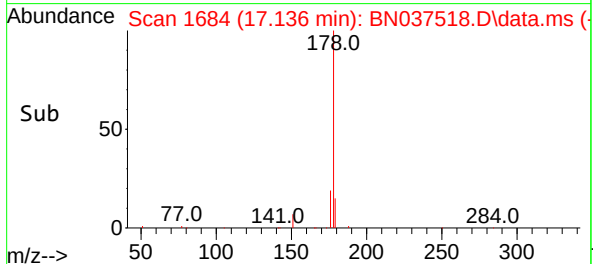
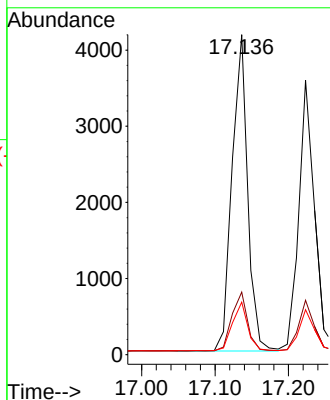
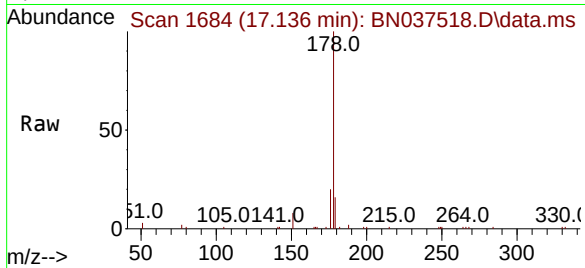




#25
Phenanthrene
Concen: 0.388 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

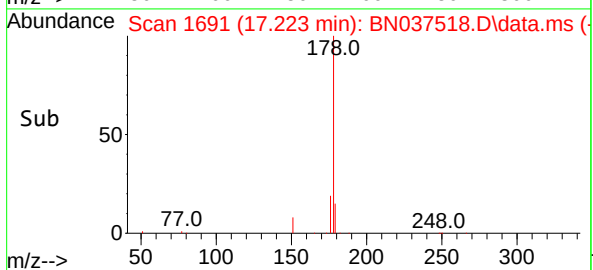
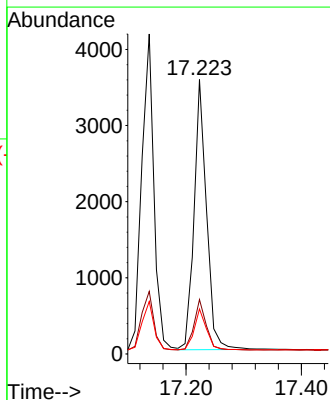
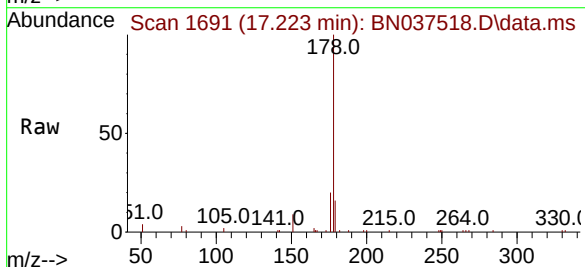
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

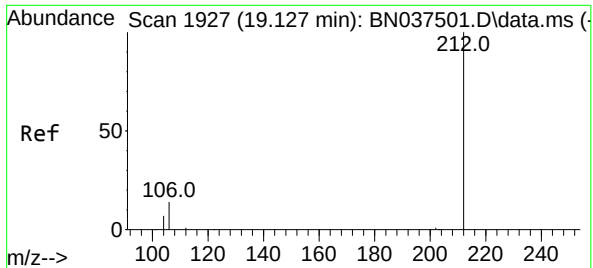
Tgt Ion:178 Resp: 6119
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.3 12.2 18.2



#26
Anthracene
Concen: 0.371 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:178 Resp: 5335
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.1 12.3 18.5

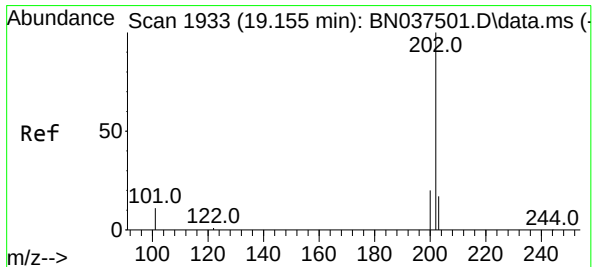
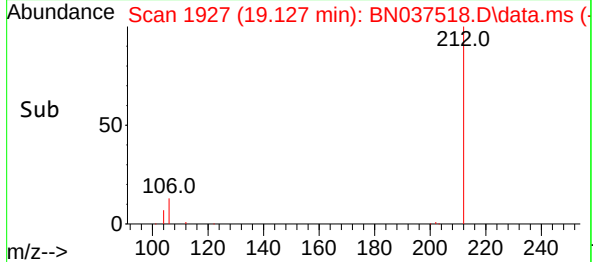
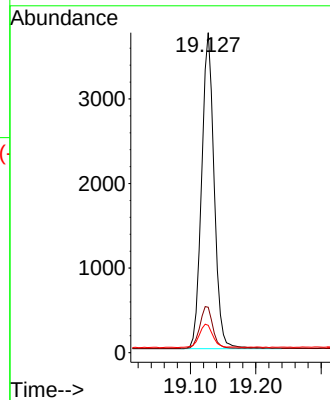
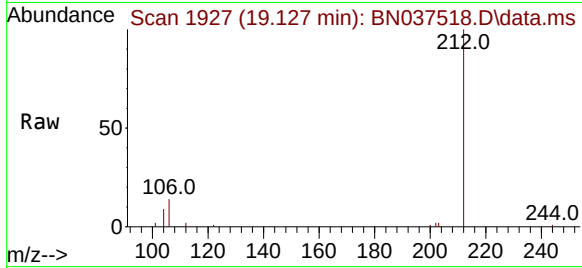




#27
Fluoranthene-d10
Concen: 0.356 ng
RT: 19.127 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

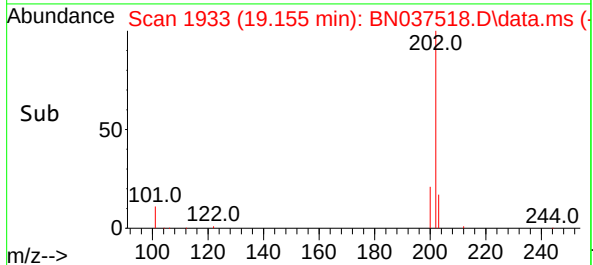
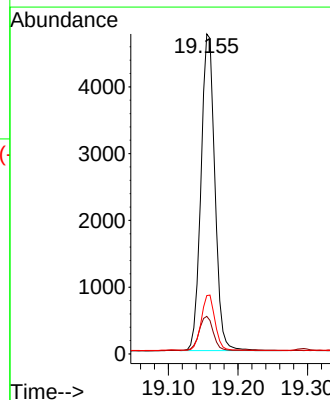
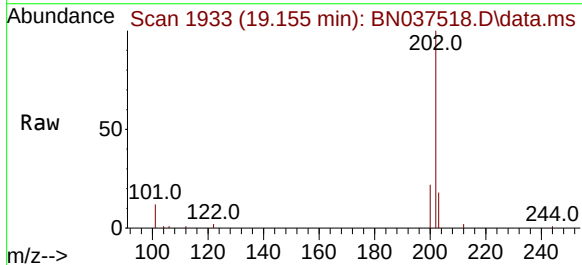
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

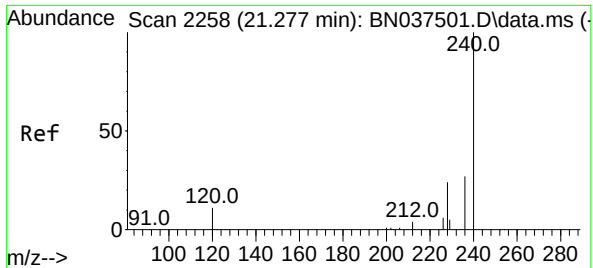
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.0	12.2	18.4
104	8.0	6.7	10.1



#28
Fluoranthene
Concen: 0.361 ng
RT: 19.155 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.8	14.6
203	17.2	13.6	20.4

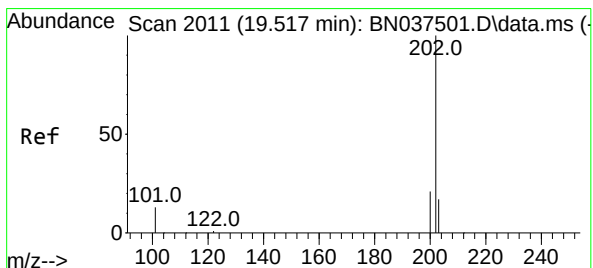
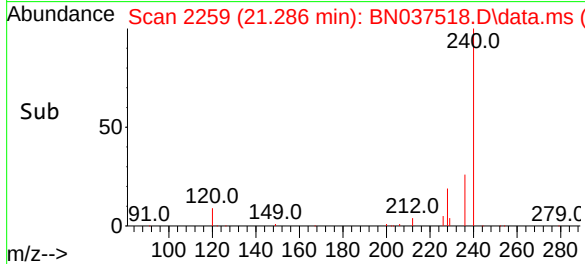
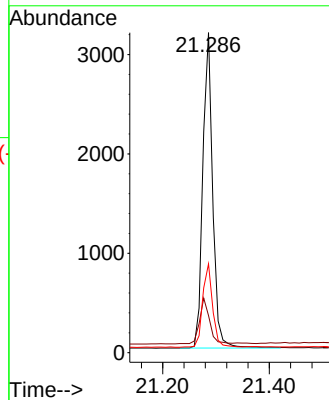
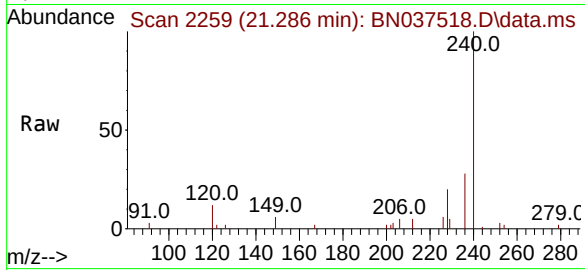




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

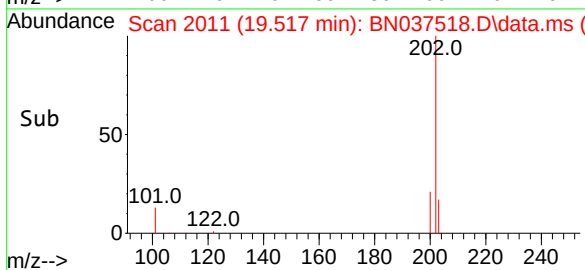
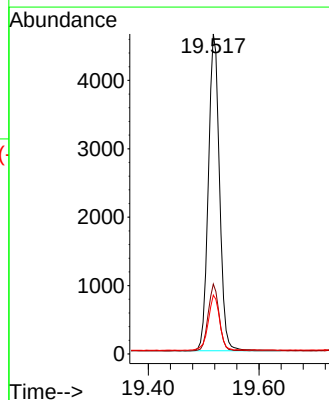
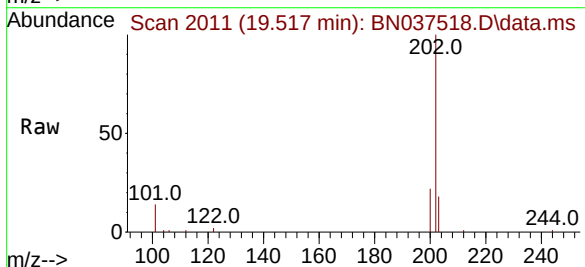
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

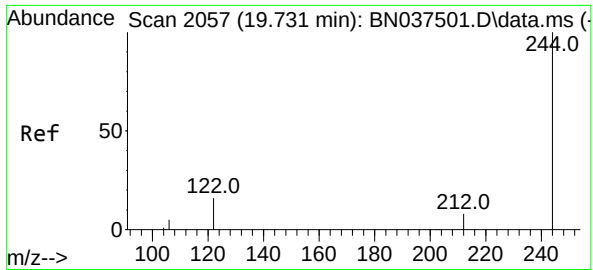
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.6	10.7	16.1
236	27.8	22.6	33.8



#30
Pyrene
Concen: 0.394 ng
RT: 19.517 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

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

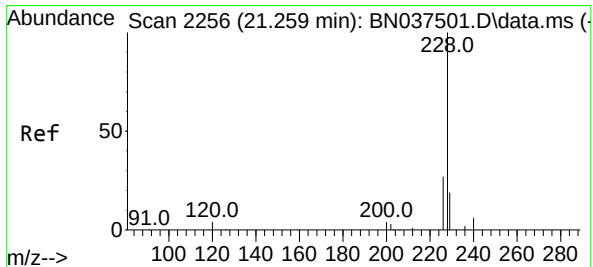
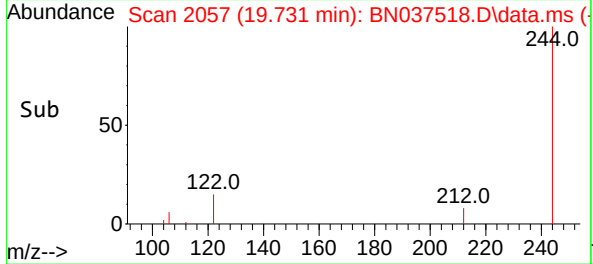
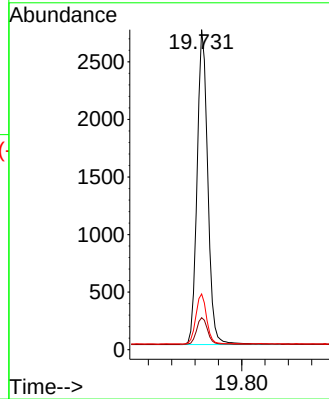
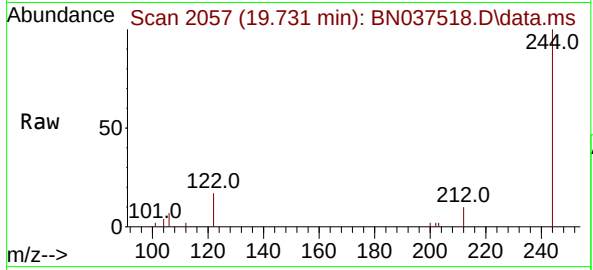




#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

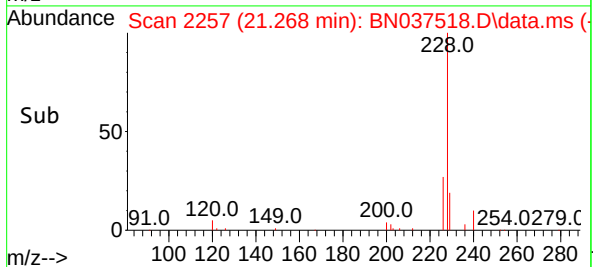
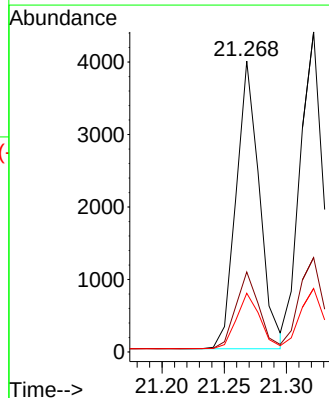
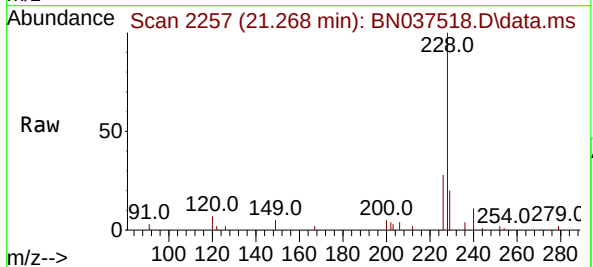
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

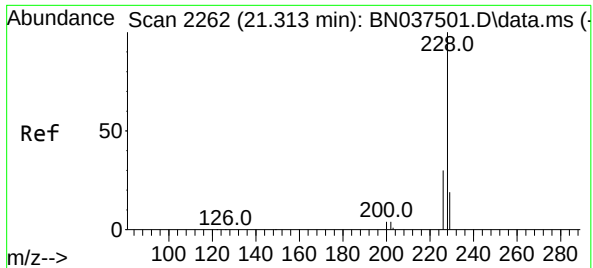
Tgt Ion:244 Resp: 3464
Ion Ratio Lower Upper
244 100
212 10.0 7.4 11.2
122 17.4 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.009 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:228 Resp: 5158
Ion Ratio Lower Upper
228 100
226 27.5 21.9 32.9
229 20.2 15.8 23.8

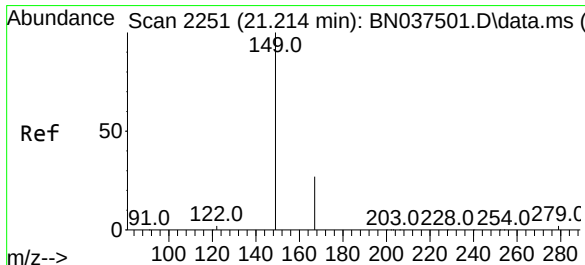
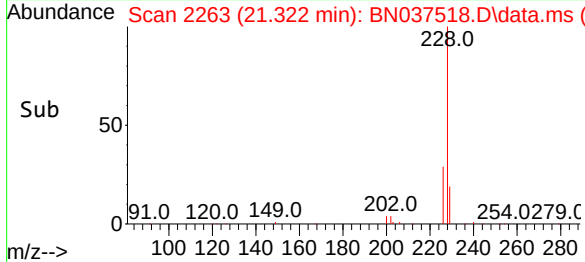
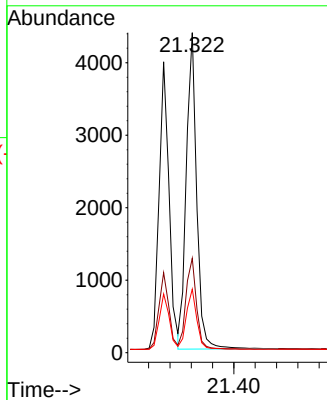
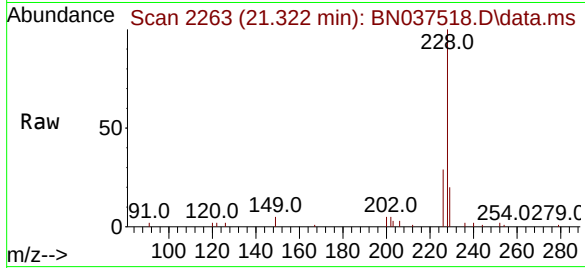




#33
Chrysene
Concen: 0.396 ng
RT: 21.322 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

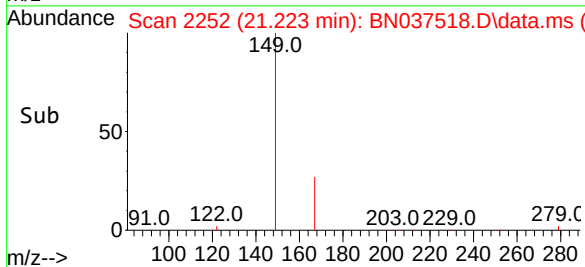
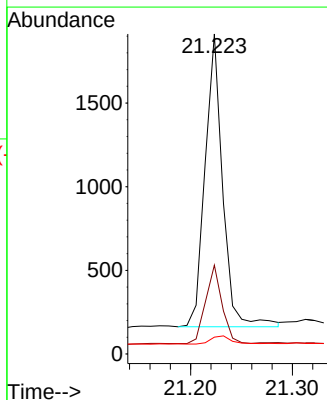
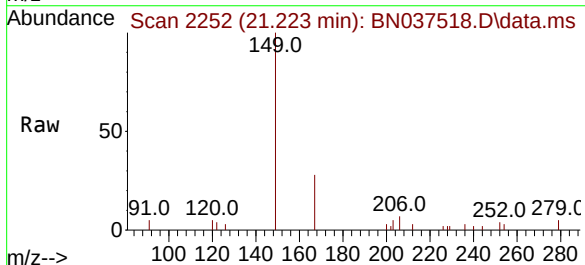
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

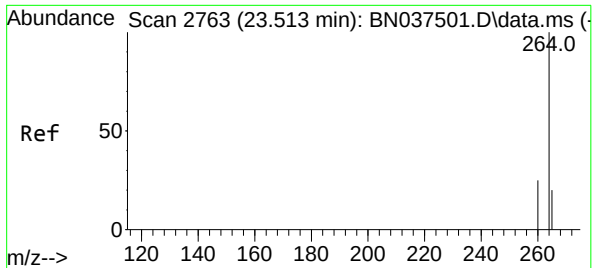
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.2	36.4
229	19.8	16.1	24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.326 ng
RT: 21.223 min Scan# 2252
Delta R.T. 0.009 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.8	21.8	32.8
279	3.3	3.0	4.4

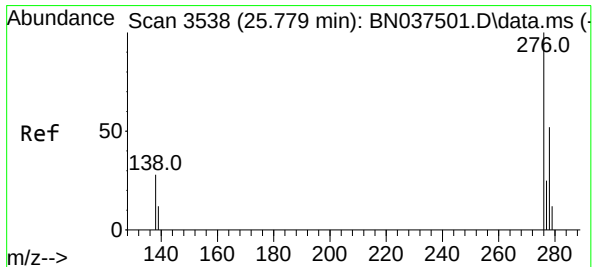
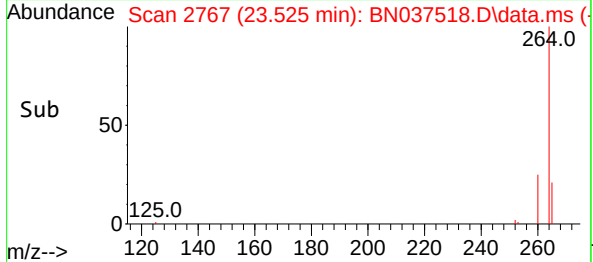
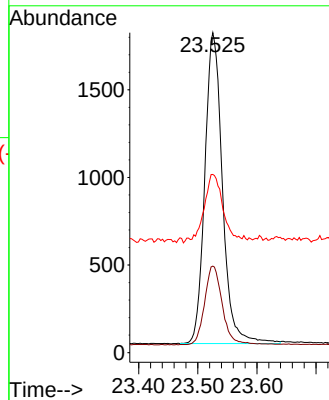
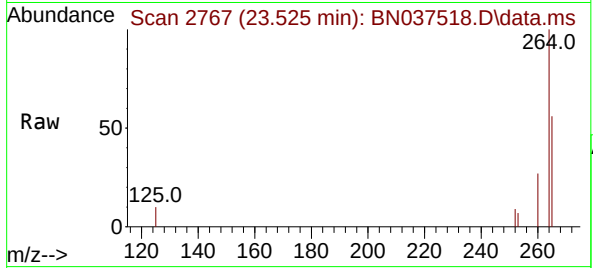




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 21
Delta R.T. 0.012 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

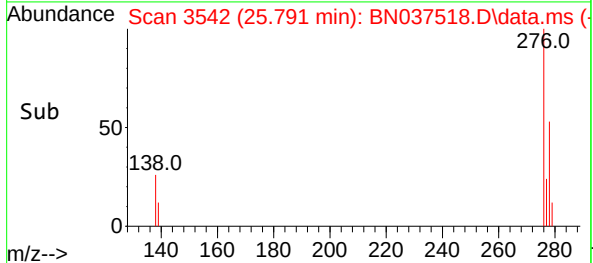
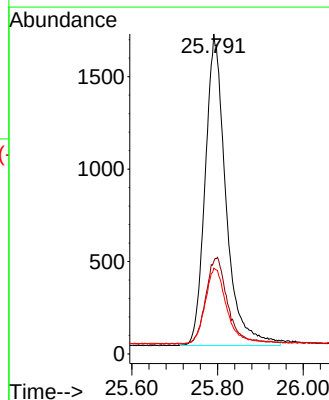
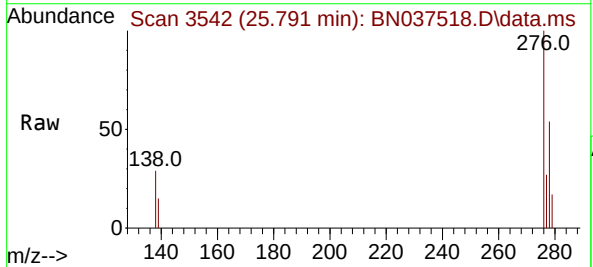
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

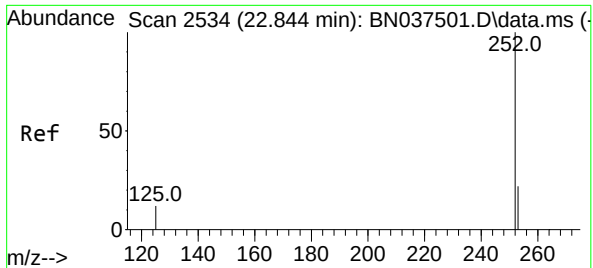
Tgt Ion:264	Resp:	3672
Ion Ratio	Lower	Upper
264	100	
260	27.1	21.2 31.8
265	55.7	40.4 60.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.369 ng
RT: 25.791 min Scan# 3542
Delta R.T. 0.012 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:276	Resp:	5640
Ion Ratio	Lower	Upper
276	100	
138	29.1	24.0 36.0
277	24.8	20.5 30.7

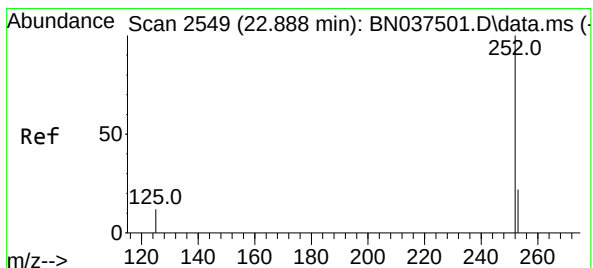
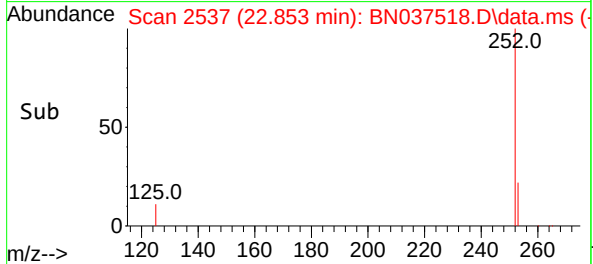
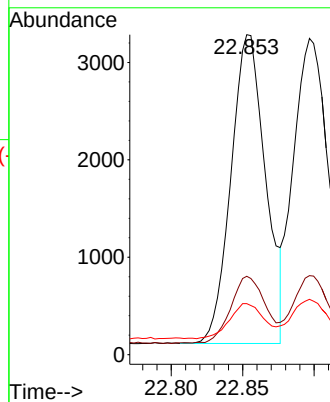
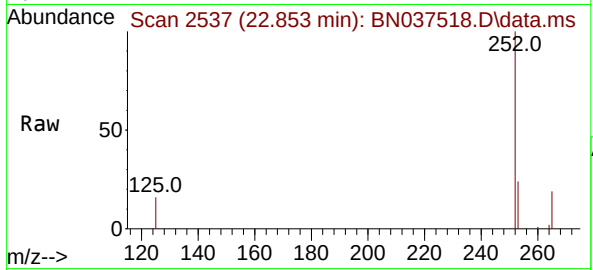




#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.853 min Scan# 2552
Delta R.T. 0.009 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

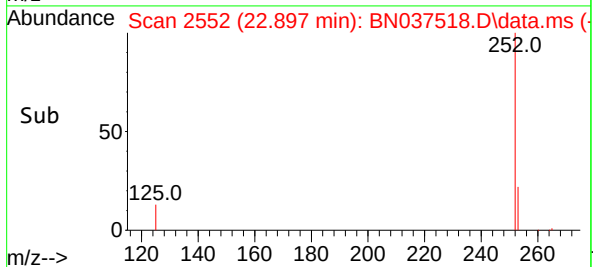
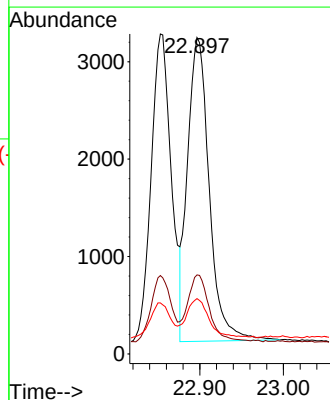
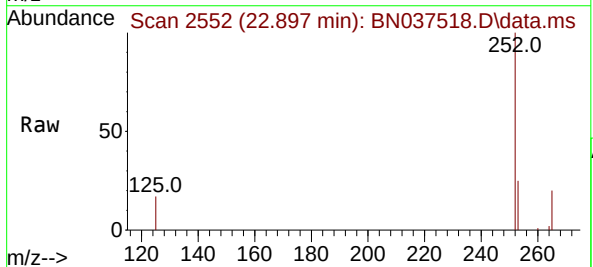
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

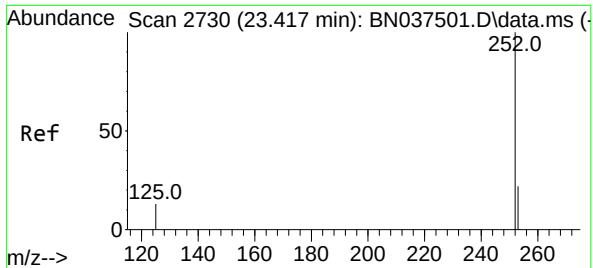
Tgt Ion:252 Resp: 5333
Ion Ratio Lower Upper
252 100
253 24.5 19.5 29.3
125 15.9 13.0 19.6



#38
Benzo(k)fluoranthene
Concen: 0.390 ng
RT: 22.897 min Scan# 2552
Delta R.T. 0.009 min
Lab File: BN037518.D
Acq: 16 Jul 2025 15:34

Tgt Ion:252 Resp: 5612
Ion Ratio Lower Upper
252 100
253 25.0 19.5 29.3
125 17.5 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.356 ng

RT: 23.429 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN037518.D

Acq: 16 Jul 2025 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

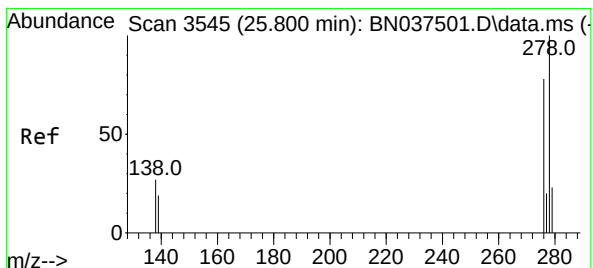
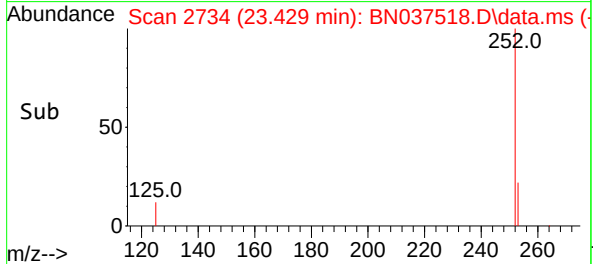
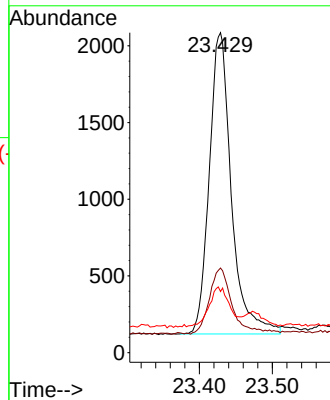
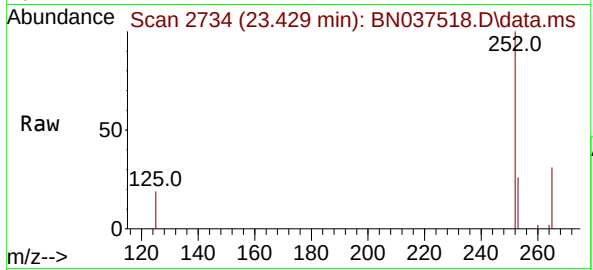
Tgt Ion:252 Resp: 4135

Ion Ratio Lower Upper

252 100

253 26.5 19.9 29.9

125 19.1 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.370 ng

RT: 25.809 min Scan# 3548

Delta R.T. 0.009 min

Lab File: BN037518.D

Acq: 16 Jul 2025 15:34

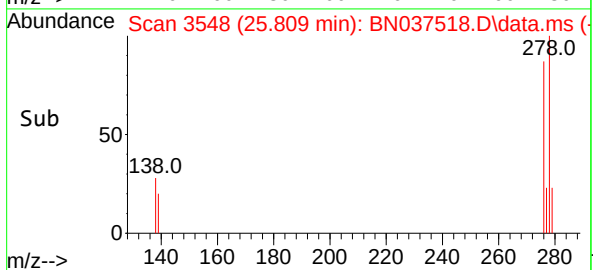
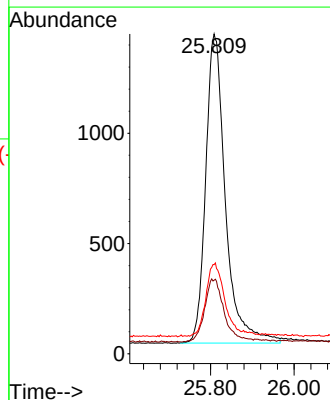
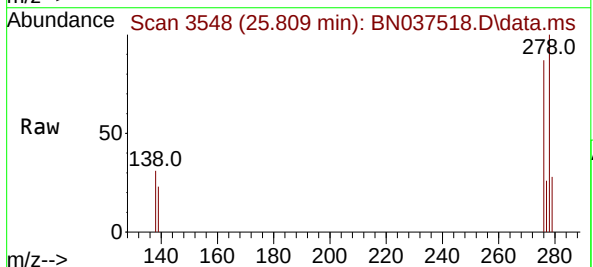
Tgt Ion:278 Resp: 4587

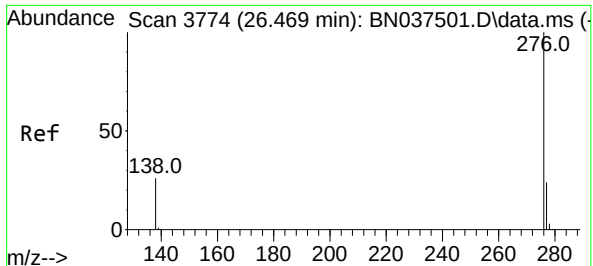
Ion Ratio Lower Upper

278 100

139 23.0 17.5 26.3

279 27.9 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.376 ng

RT: 26.478 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN037518.D

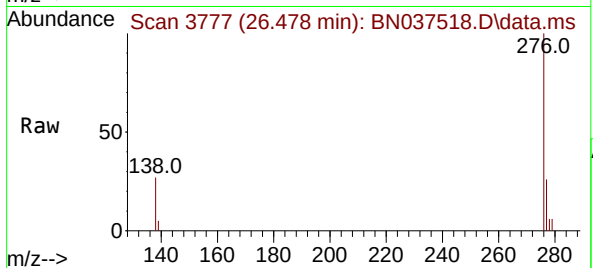
Acq: 16 Jul 2025 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



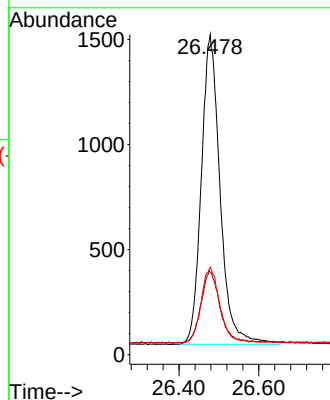
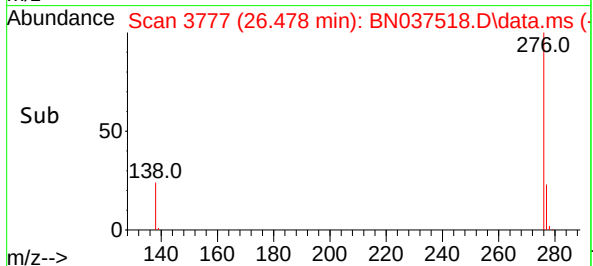
Tgt Ion:276 Resp: 4818

Ion Ratio Lower Upper

276 100

277 25.7 20.9 31.3

138 27.4 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
 Data File : BN037518.D
 Acq On : 16 Jul 2025 15:34
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 16 16:04:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 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	83	0.00
2	1,4-Dioxane	0.385	0.391	-1.6	82	0.00
3	n-Nitrosodimethylamine	0.484	0.523	-8.1	93	0.00
4 S	2-Fluorophenol	0.989	0.896	9.4	75	0.00
5 S	Phenol-d6	1.241	1.092	12.0	76	0.00
6	bis(2-Chloroethyl)ether	1.033	0.985	4.6	80	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	83	-0.01
8 S	Nitrobenzene-d5	0.299	0.280	6.4	82	-0.01
9	Naphthalene	1.067	1.035	3.0	82	0.00
10	Hexachlorobutadiene	0.236	0.252	-6.8	89	-0.01
11 SURR	2-Methylnaphthalene-d10	0.574	0.525	8.5	80	0.00
12	2-Methylnaphthalene	0.701	0.665	5.1	81	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	81	0.00
14 S	2,4,6-Tribromophenol	0.197	0.155	21.3	73	0.00
15 S	2-Fluorobiphenyl	2.080	2.170	-4.3	86	0.00
16	Acenaphthylene	1.792	1.726	3.7	81	0.00
17	Acenaphthene	1.218	1.167	4.2	81	0.00
18	Fluorene	1.569	1.500	4.4	82	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	81	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.043	24.6	85	0.00
21	4-Bromophenyl-phenylether	0.256	0.244	4.7	82	0.00
22	Hexachlorobenzene	0.331	0.343	-3.6	85	0.00
23	Atrazine	0.179	0.148	17.3	76	0.00
24	Pentachlorophenol	0.149	0.111	25.5#	72	0.00
25	Phenanthrene	1.198	1.162	3.0	81	0.00
26	Anthracene	1.093	1.013	7.3	81	0.00
27 SURR	Fluoranthene-d10	1.060	0.943	11.0	80	0.00
28	Fluoranthene	1.382	1.247	9.8	79	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	79	0.00
30	Pyrene	1.612	1.586	1.6	77	0.00
31 S	Terphenyl-d14	0.859	0.847	1.4	79	0.00
32	Benzo(a)anthracene	1.401	1.261	10.0	74	0.00
33	Chrysene	1.459	1.443	1.1	79	0.00
34	Bis(2-ethylhexyl)phthalate	0.630	0.514	18.4	71	0.00
35 I	Perylene-d12	1.000	1.000	0.0	76	0.01
36	Indeno(1,2,3-cd)pyrene	1.666	1.536	7.8	77	0.01
37	Benzo(b)fluoranthene	1.518	1.452	4.3	76	0.00
38	Benzo(k)fluoranthene	1.567	1.528	2.5	79	0.00
39 C	Benzo(a)pyrene	1.267	1.126	11.1	72	0.01
40	Dibenzo(a,h)anthracene	1.349	1.249	7.4	78	0.00
41	Benzo(g,h,i)perylene	1.397	1.312	6.1	77	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
 Data File : BN037518.D
 Acq On : 16 Jul 2025 15:34
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 16 16:04:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 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	83	0.00
2	1,4-Dioxane	0.400	0.407	-1.7	82	0.00
3	n-Nitrosodimethylamine	0.400	0.432	-8.0	93	0.00
4 S	2-Fluorophenol	0.400	0.362	9.5	75	0.00
5 S	Phenol-d6	0.400	0.352	12.0	76	0.00
6	bis(2-Chloroethyl)ether	0.400	0.381	4.8	80	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	83	-0.01
8 S	Nitrobenzene-d5	0.400	0.375	6.3	82	-0.01
9	Naphthalene	0.400	0.388	3.0	82	0.00
10	Hexachlorobutadiene	0.400	0.428	-7.0	89	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.366	8.5	80	0.00
12	2-Methylnaphthalene	0.400	0.379	5.3	81	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	81	0.00
14 S	2,4,6-Tribromophenol	0.400	0.316	21.0	73	0.00
15 S	2-Fluorobiphenyl	0.400	0.417	-4.2	86	0.00
16	Acenaphthylene	0.400	0.385	3.8	81	0.00
17	Acenaphthene	0.400	0.383	4.3	81	0.00
18	Fluorene	0.400	0.383	4.3	82	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	81	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.411	-2.7	85	0.00
21	4-Bromophenyl-phenylether	0.400	0.381	4.8	82	0.00
22	Hexachlorobenzene	0.400	0.414	-3.5	85	0.00
23	Atrazine	0.400	0.331	17.3	76	0.00
24	Pentachlorophenol	0.400	0.298	25.5#	72	0.00
25	Phenanthrene	0.400	0.388	3.0	81	0.00
26	Anthracene	0.400	0.371	7.3	81	0.00
27 SURR	Fluoranthene-d10	0.400	0.356	11.0	80	0.00
28	Fluoranthene	0.400	0.361	9.8	79	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	79	0.00
30	Pyrene	0.400	0.394	1.5	77	0.00
31 S	Terphenyl-d14	0.400	0.394	1.5	79	0.00
32	Benzo(a)anthracene	0.400	0.360	10.0	74	0.00
33	Chrysene	0.400	0.396	1.0	79	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.326	18.5	71	0.00
35 I	Perylene-d12	0.400	0.400	0.0	76	0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.369	7.8	77	0.01
37	Benzo(b)fluoranthene	0.400	0.383	4.3	76	0.00
38	Benzo(k)fluoranthene	0.400	0.390	2.5	79	0.00
39 C	Benzo(a)pyrene	0.400	0.356	11.0	72	0.01
40	Dibenzo(a,h)anthracene	0.400	0.370	7.5	78	0.00
41	Benzo(g,h,i)perylene	0.400	0.376	6.0	77	0.00

(#) = Out of Range

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



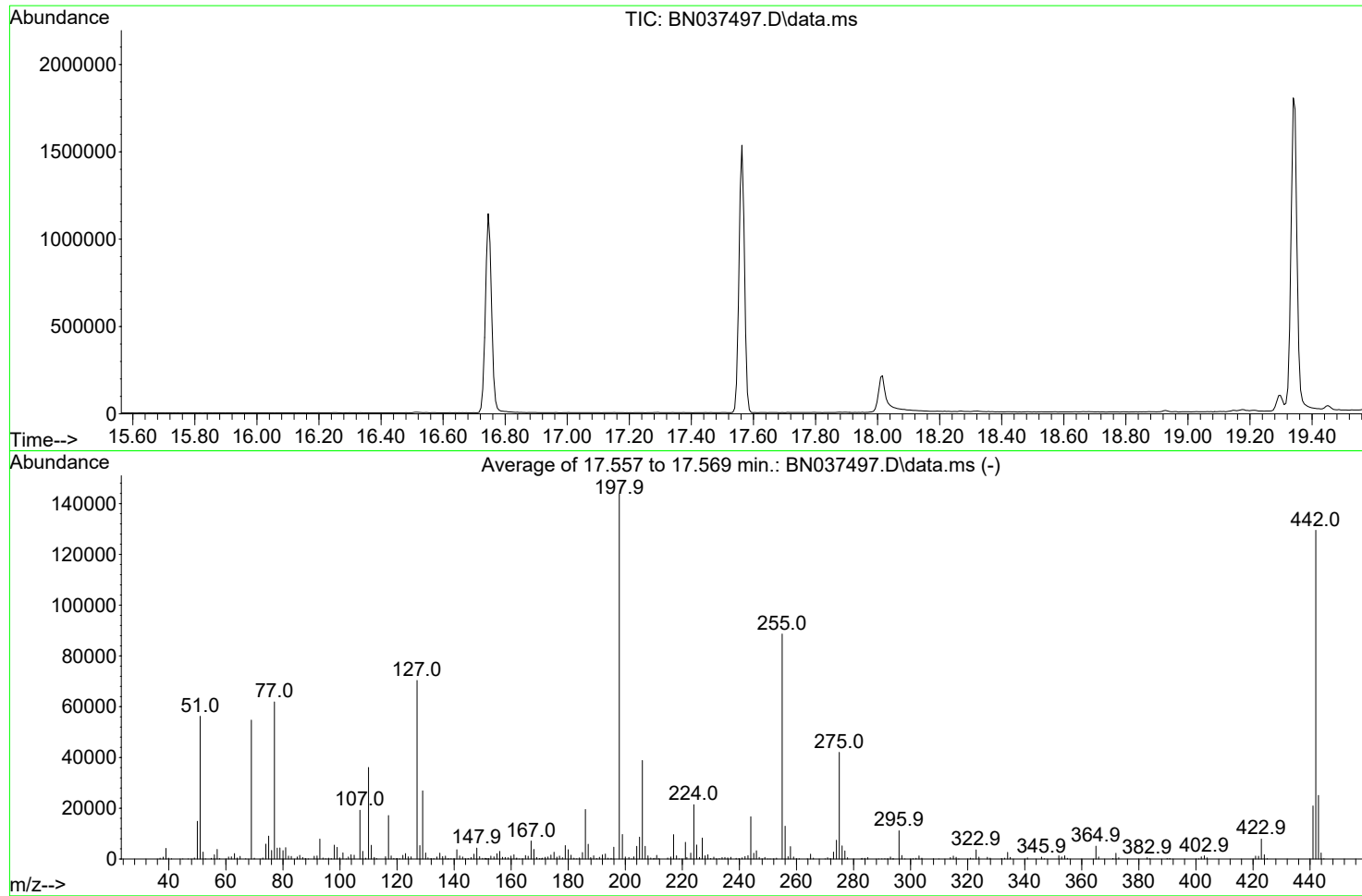
QC SAMPLE DATA

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



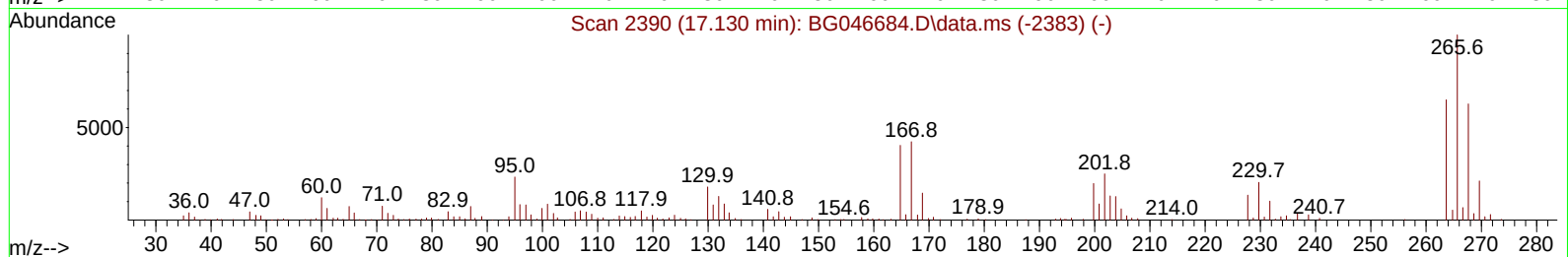
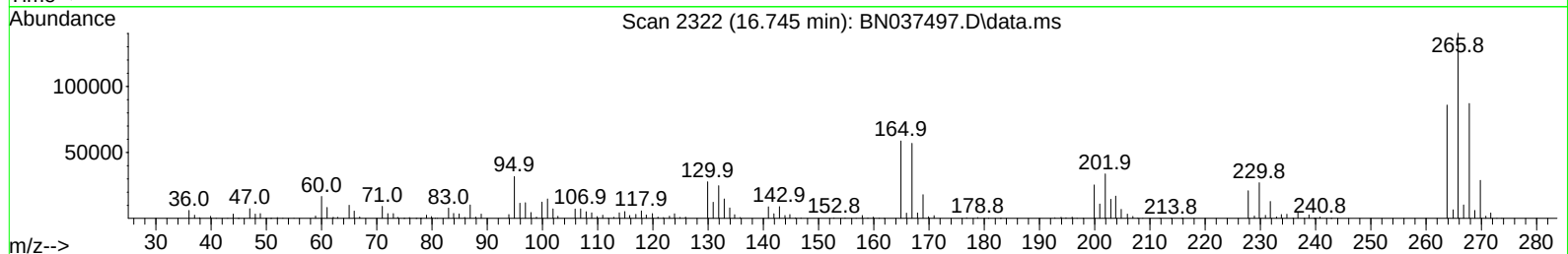
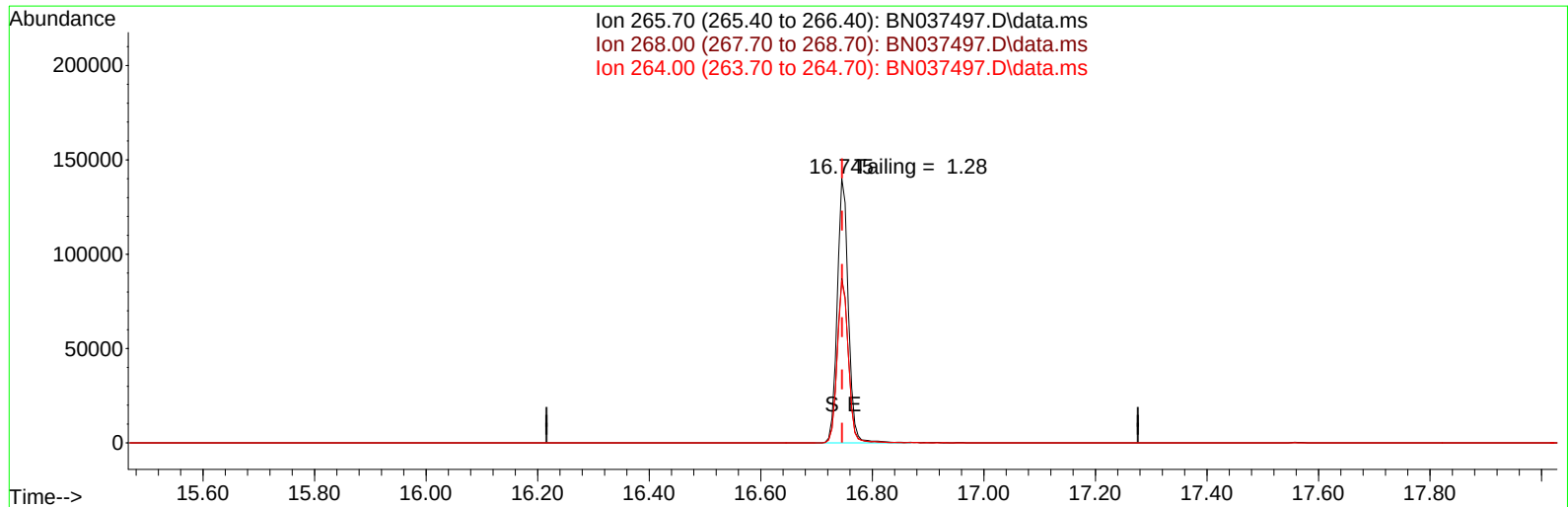
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

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

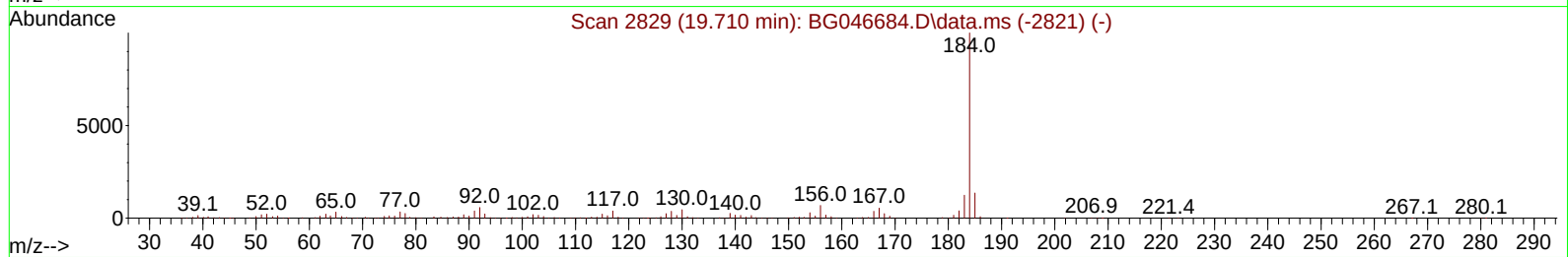
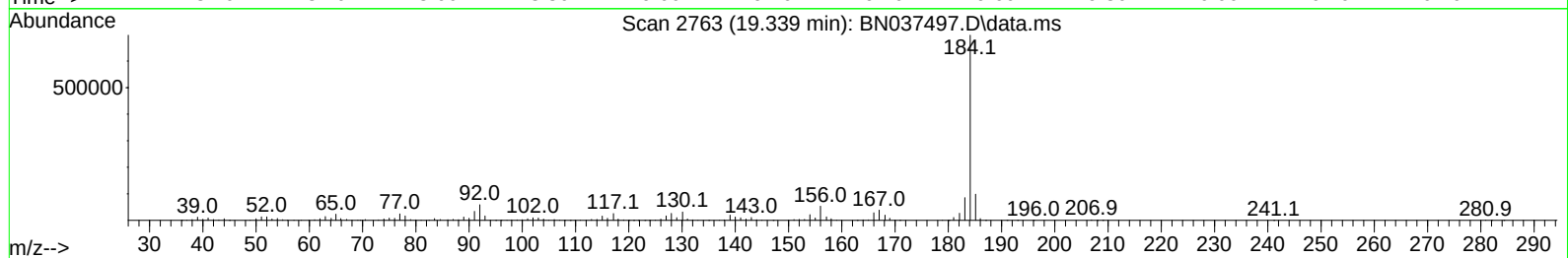
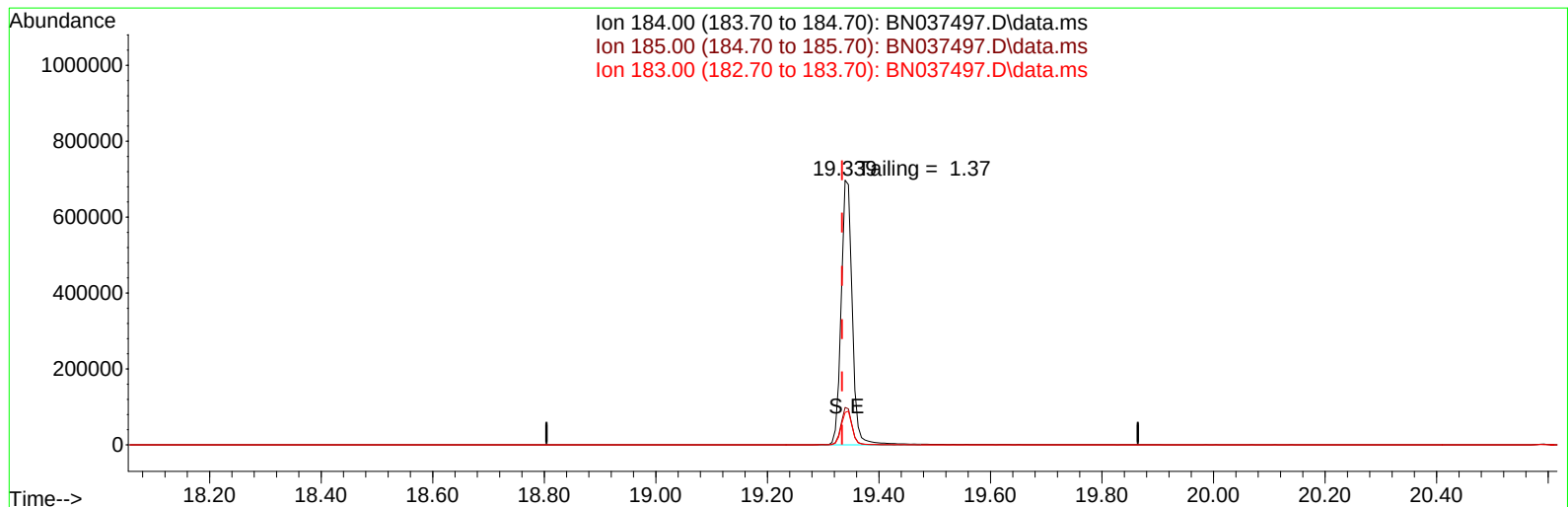
response 194539

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

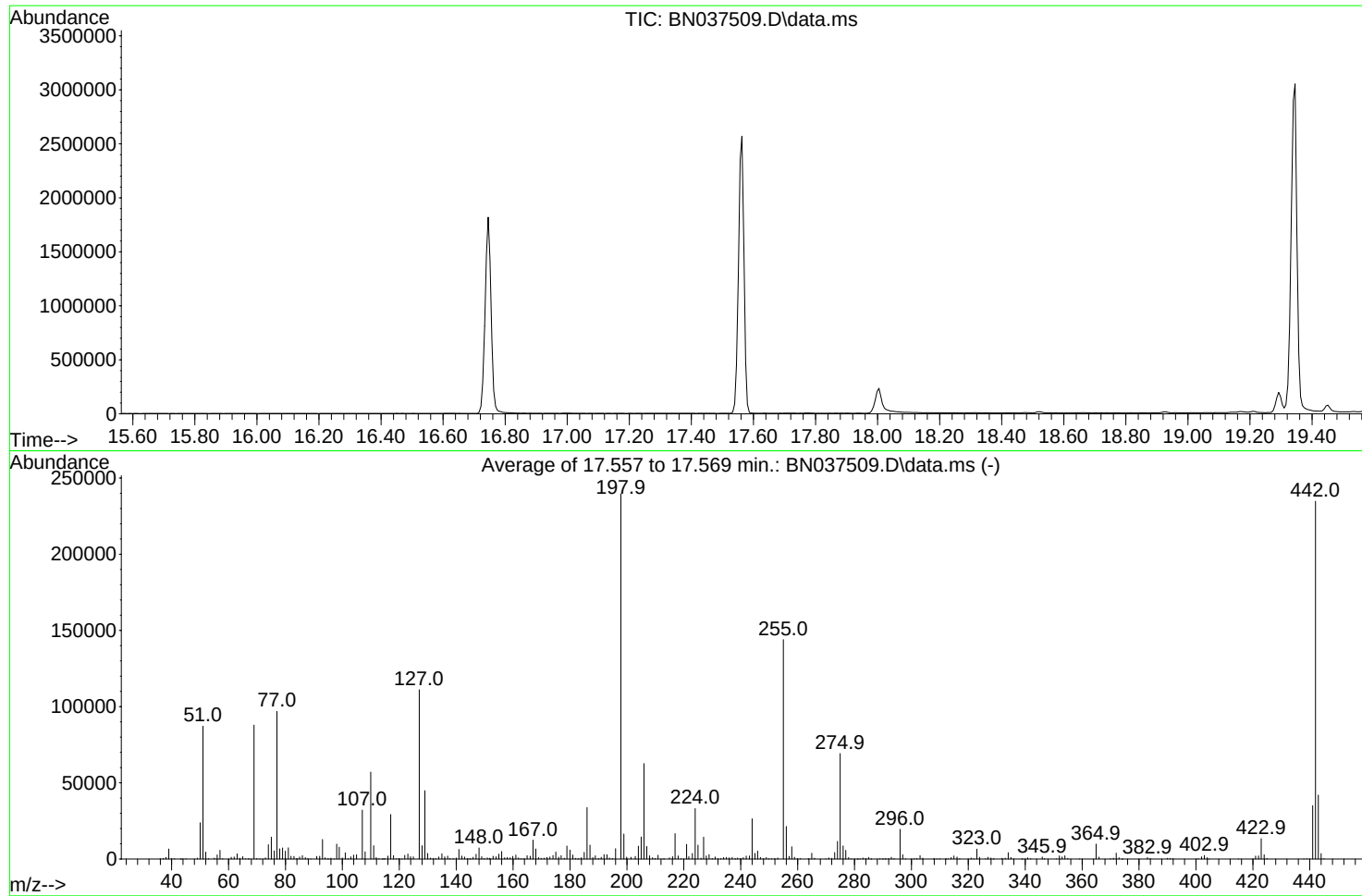
Date	Instrument Name	DFTPP Data File
7/15/2025	BNA_N	<u>BN037497.D</u>
Compound Name	Response	Retention Time
DDT	478094	20.592
DDD	7051	20.145
DDE	60	19.639
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7111	485205	1.47

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037509.D
Acq On : 16 Jul 2025 09:11
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 : Thu Jul 10 02:20:59 2025



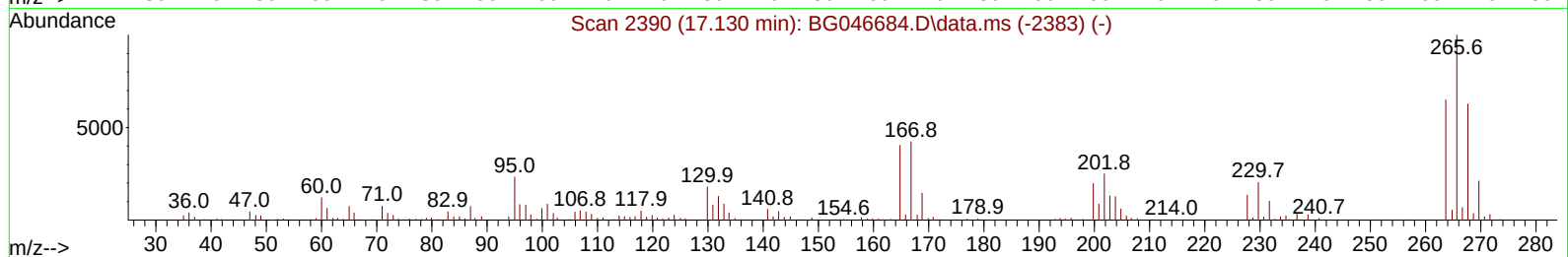
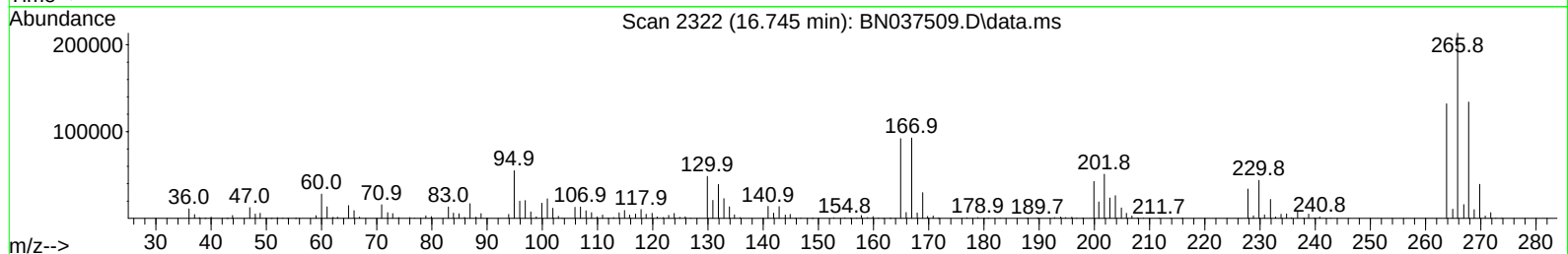
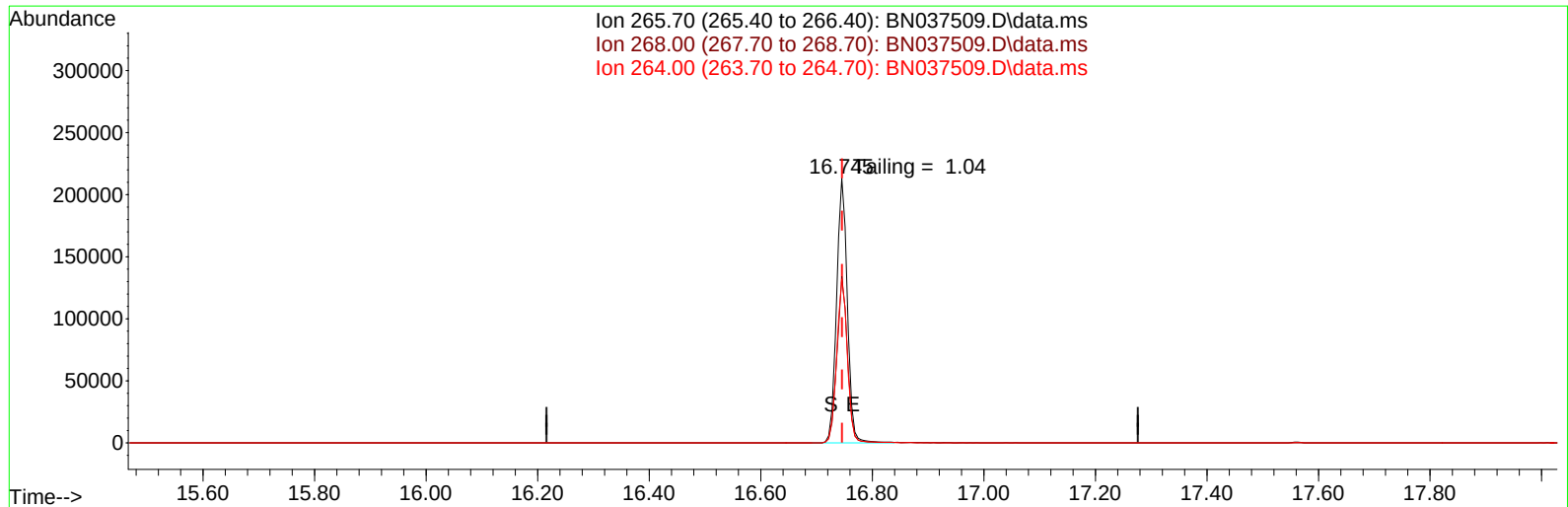
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

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	87885	PASS
70	69	0.00	2	0.5	431	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	239552	PASS
199	198	5	9	6.8	16396	PASS
365	198	1	100	4.1	9795	PASS
441	443	0.01	150	83.6	35077	PASS
442	442	100	100	100.0	234773	PASS
443	442	15	24	17.9	41957	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037509.D
Acq On : 16 Jul 2025 09:11
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 16 12:56:43 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: BN037509.D\data.ms

(70) Pentachlorophenol (C)

16.745min (-0.001) 27368.56 ng

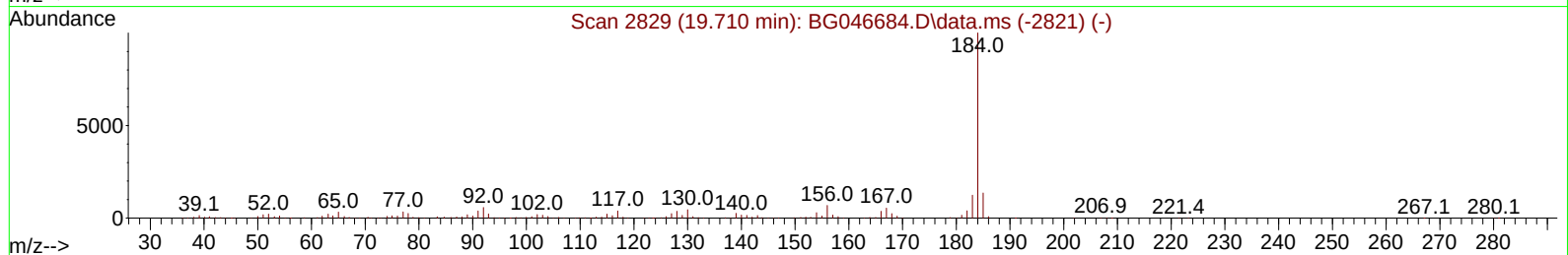
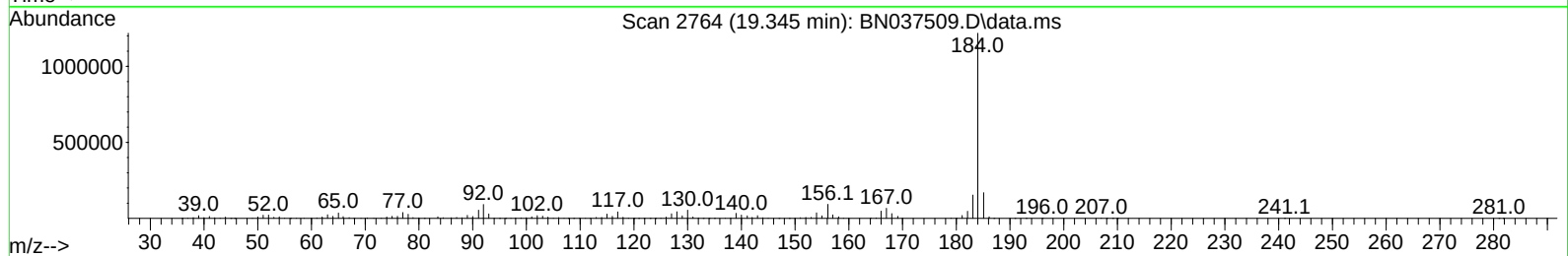
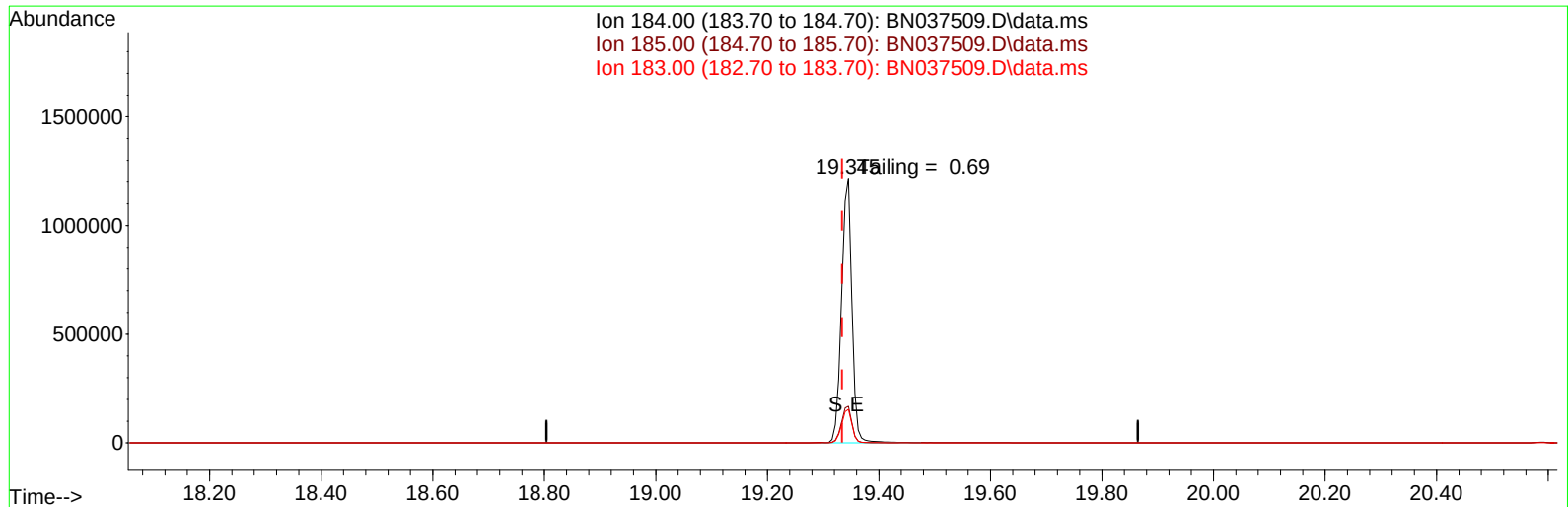
response 287163

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.86
264.00	61.60	61.90
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037509.D
Acq On : 16 Jul 2025 09:11
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 16 12:56:43 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: BN037509.D\data.ms

(77) Benzidine

19.345min (+ 0.011) 0.00 ng

response 1586462

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.85
183.00	13.20	12.65
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/16/2025	BNA_N	<u>BN037509.D</u>
Compound Name	Response	Retention Time
DDT	767819	20.592
DDD	7966	20.198
DDE	70	19.639
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8036	775855	1.04

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168868BL	SDG No.:	Q2604
Lab Sample ID:	PB168868BL	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
BN037511.D	1	07/15/25 11:40	07/16/25 10:27	PB168868

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	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3100	7.724				
1146-65-2	Naphthalene-d8	7570	10.509				
15067-26-2	Acenaphthene-d10	3900	14.355				
1517-22-2	Phenanthrene-d10	7550	17.099				
1719-03-5	Chrysene-d12	5010	21.277				
1520-96-3	Perylene-d12	4530	23.513				

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\BN071625\
Data File : BN037511.D
Acq On : 16 Jul 2025 10:27
Operator : RC/JU
Sample : PB168868BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168868BL

Quant Time: Jul 16 10:53:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 16 02:38:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3101	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7573	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3896	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	7545	0.400	ng	0.00
29) Chrysene-d12	21.277	240	5013	0.400	ng	0.00
35) Perylene-d12	23.513	264	4525	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	2697	0.352	ng	0.00
5) Phenol-d6	6.886	99	2898	0.301	ng	0.00
8) Nitrobenzene-d5	8.864	82	2065	0.365	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	3661	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	417	0.218	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	7719	0.381	ng	0.00
27) Fluoranthene-d10	19.127	212	6488	0.325	ng	0.00
31) Terphenyl-d14	19.731	244	4607	0.428	ng	0.00

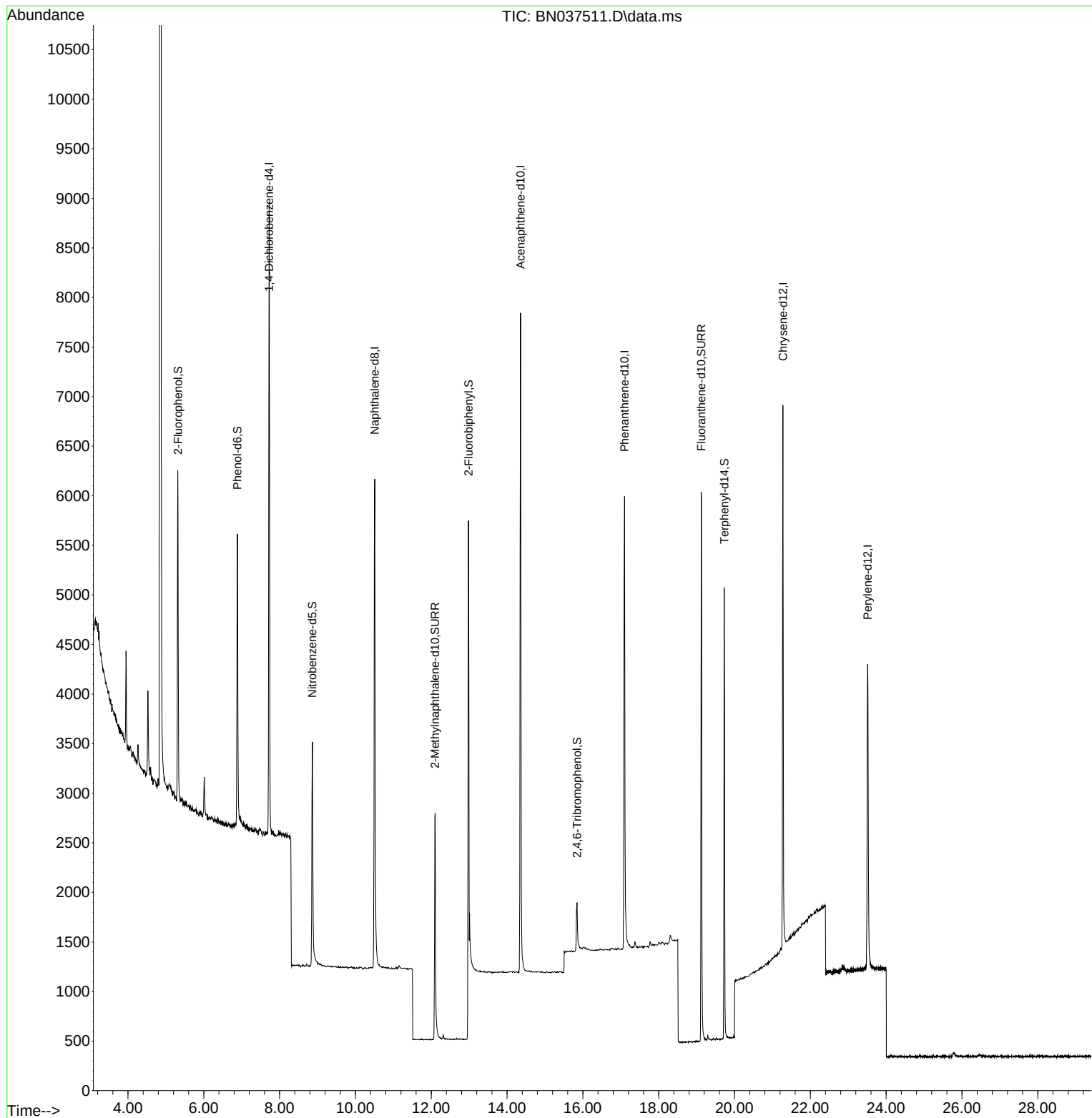
Target Compounds	Qvalue
------------------	--------

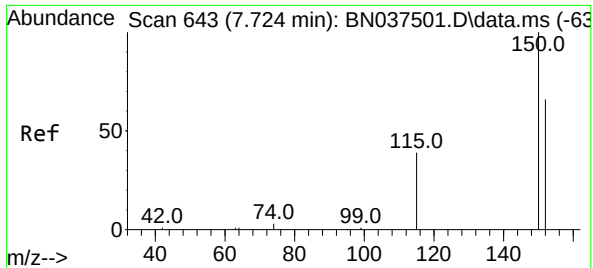
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037511.D
Acq On : 16 Jul 2025 10:27
Operator : RC/JU
Sample : PB168868BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168868BL

Quant Time: Jul 16 10:53:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 16 02:38:11 2025
Response via : Initial Calibration

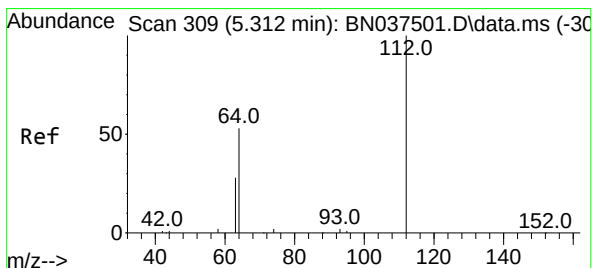
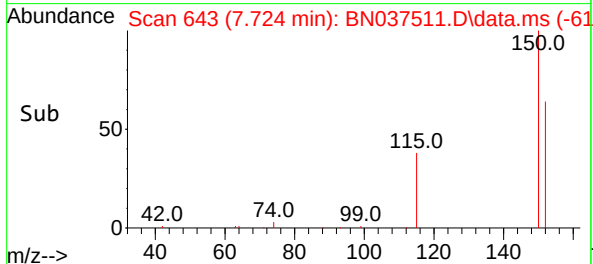
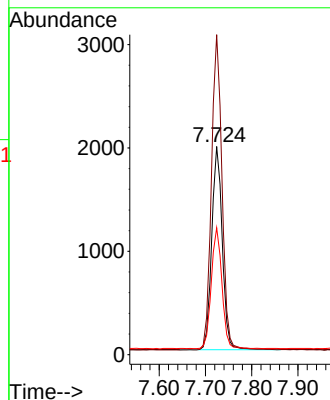
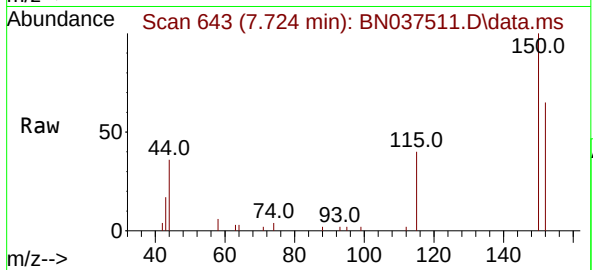




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

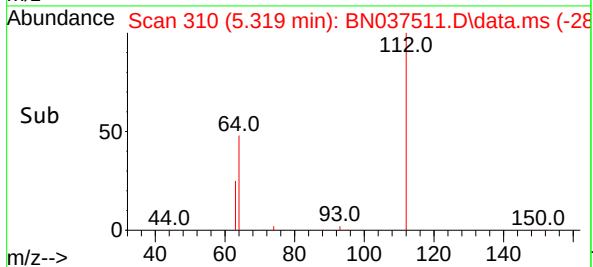
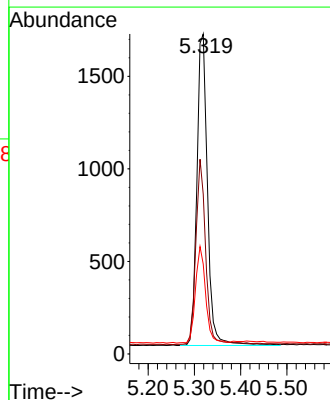
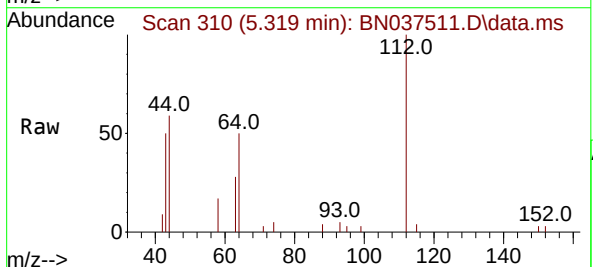
Instrument :
BNA_N
ClientSampleId :
PB168868BL

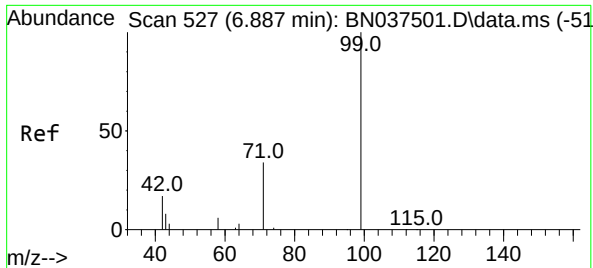
Tgt Ion:152 Resp: 3101
Ion Ratio Lower Upper
152 100
150 153.7 119.8 179.8
115 61.0 49.1 73.7



#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

Tgt Ion:112 Resp: 2697
Ion Ratio Lower Upper
112 100
64 55.6 45.1 67.7
63 29.2 23.8 35.8

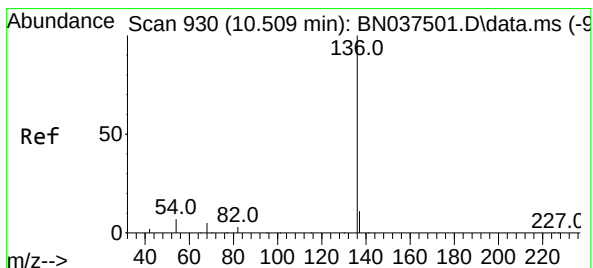
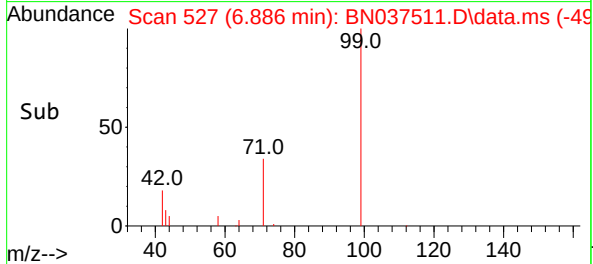
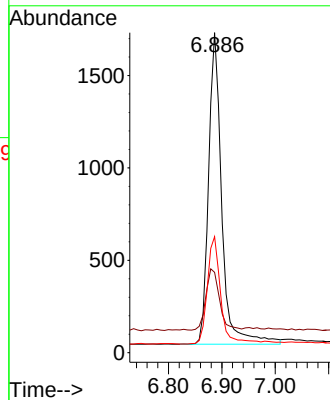
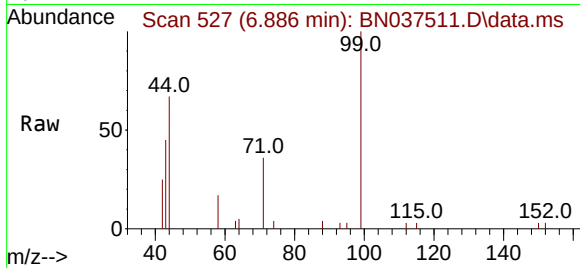




#5
Phenol-d6
Concen: 0.301 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

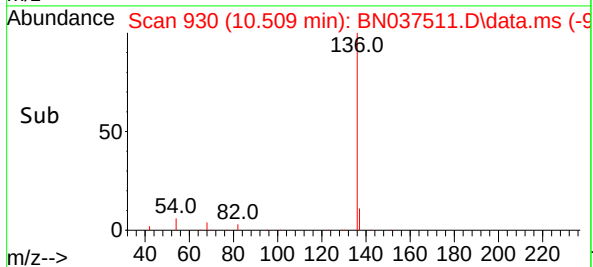
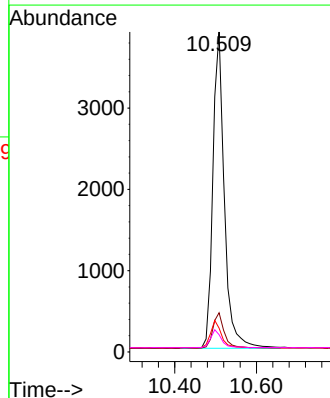
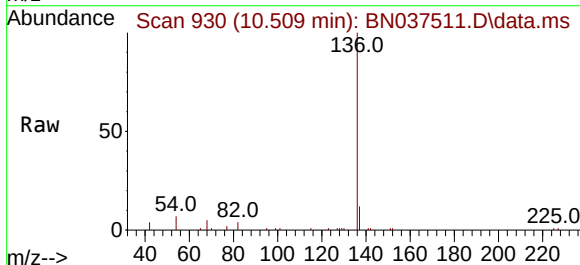
Instrument :
BNA_N
ClientSampleId :
PB168868BL

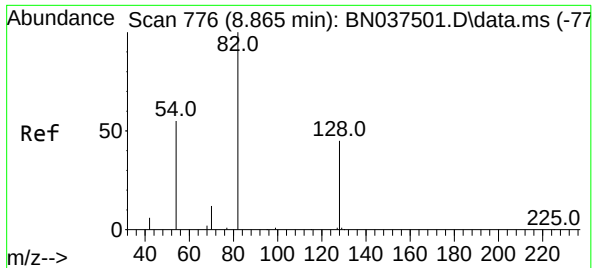
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.1	17.1	25.7
71	34.9	27.8	41.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	7.4	6.6	9.8
68	5.4	5.0	7.6

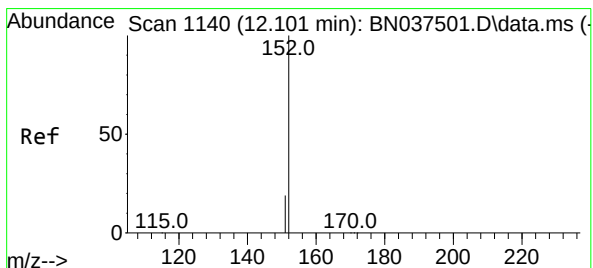
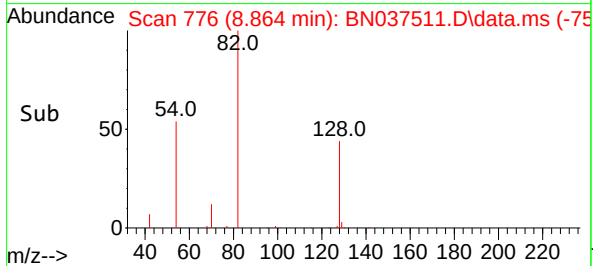
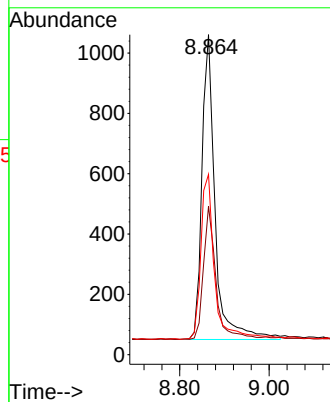
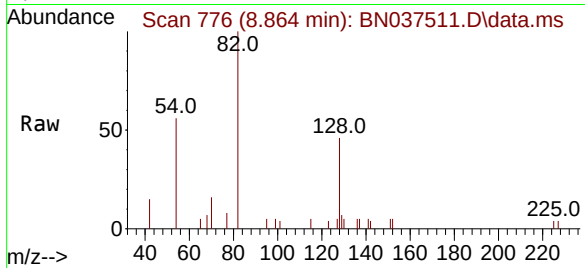




#8
Nitrobenzene-d5
Concen: 0.365 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

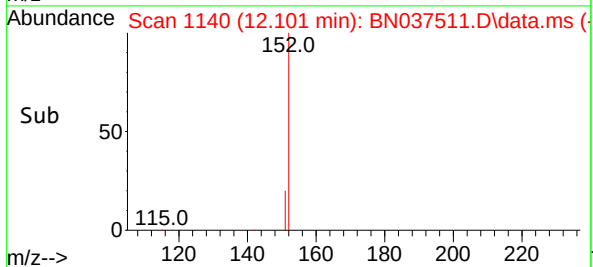
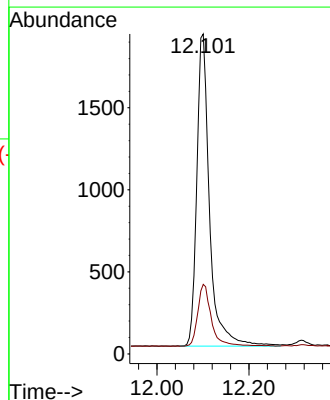
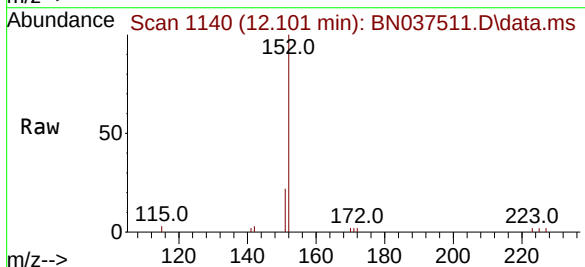
Instrument :
BNA_N
ClientSampleId :
PB168868BL

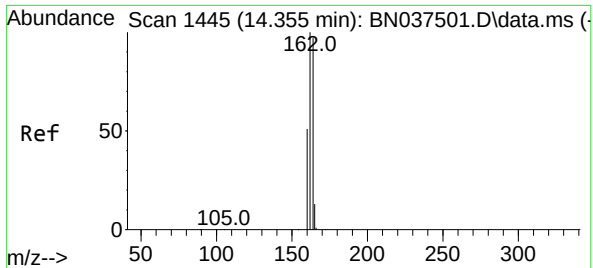
Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.5	56.3
54	56.4	45.3	67.9



#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

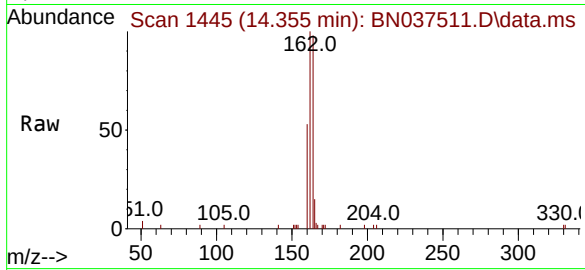
Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.8	25.2



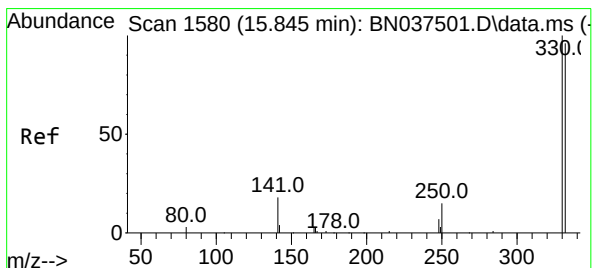
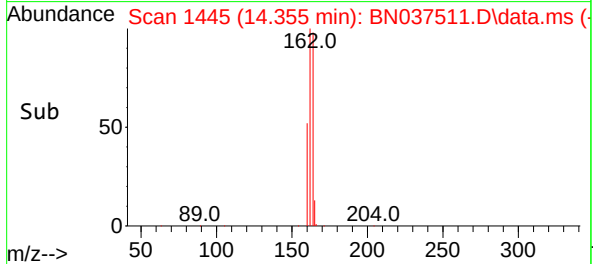
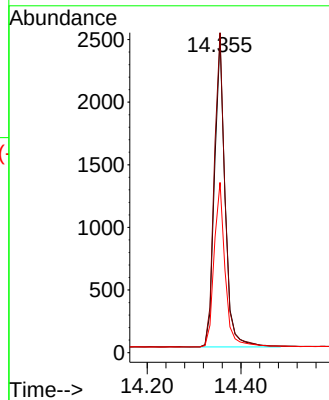


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

Instrument :
BNA_N
ClientSampleId :
PB168868BL

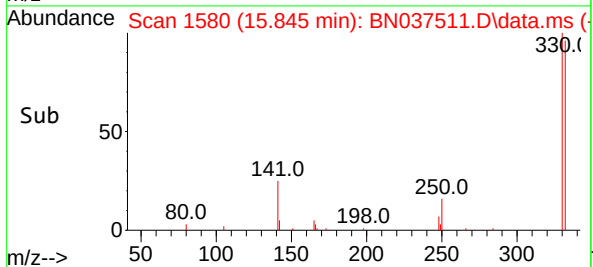
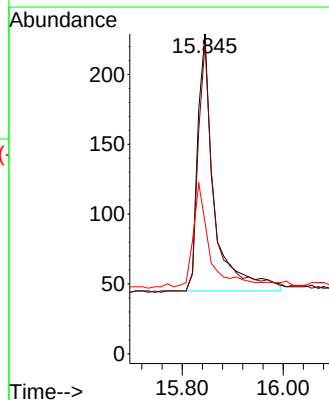
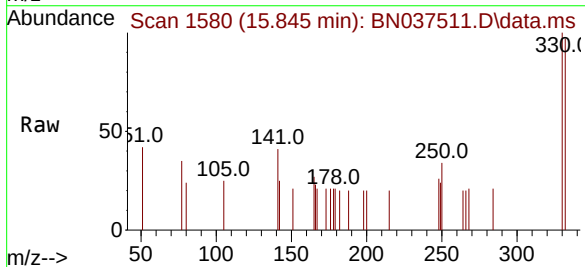


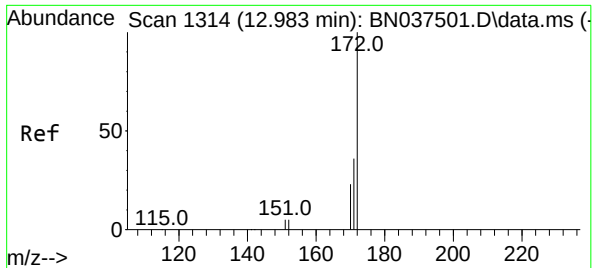
Tgt Ion:164 Resp: 3896
Ion Ratio Lower Upper
164 100
162 101.8 82.0 123.0
160 54.1 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.218 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

Tgt Ion:330 Resp: 417
Ion Ratio Lower Upper
330 100
332 98.8 76.1 114.1
141 39.3 33.4 50.0

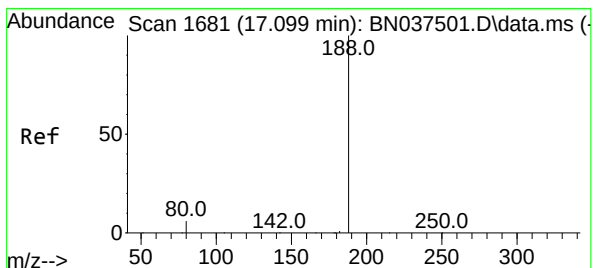
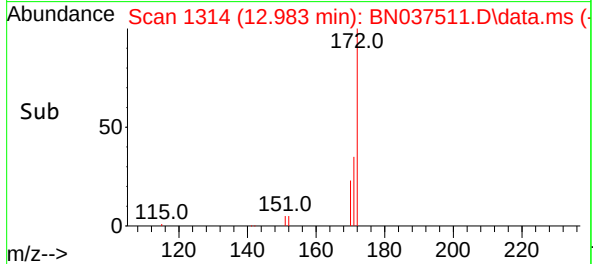
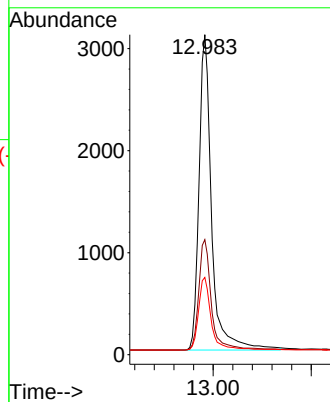
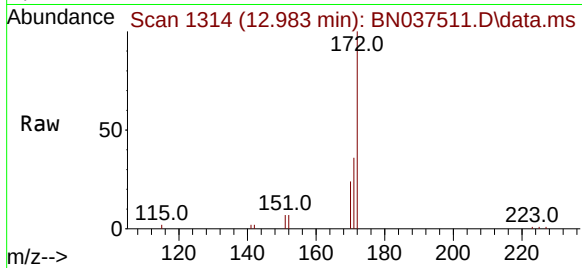




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

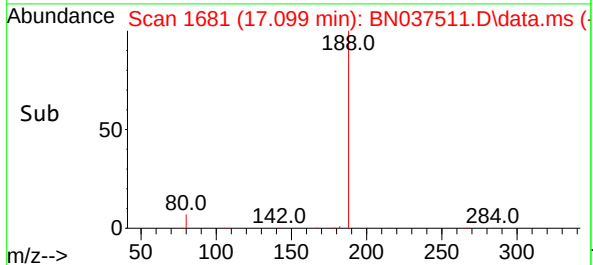
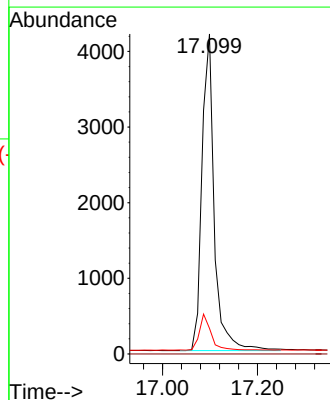
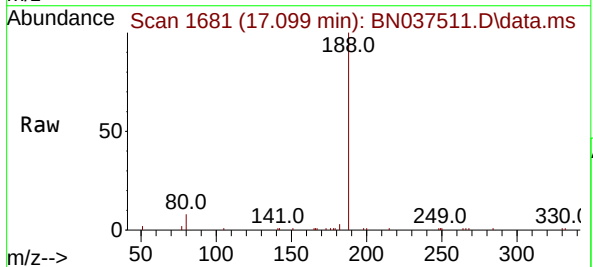
Instrument :
BNA_N
ClientSampleId :
PB168868BL

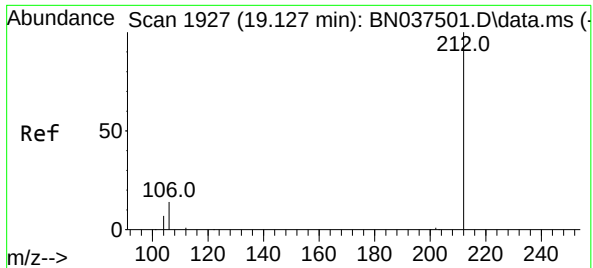
Tgt Ion:172 Resp: 7719
Ion Ratio Lower Upper
172 100
171 36.0 29.4 44.2
170 24.2 19.4 29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

Tgt Ion:188 Resp: 7545
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.0 6.0 9.0

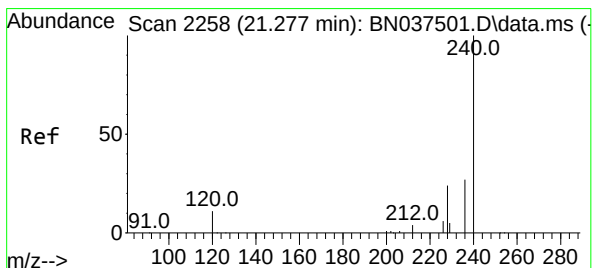
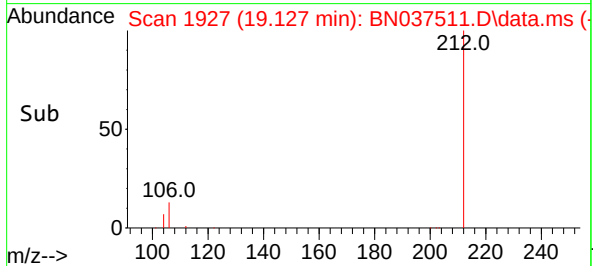
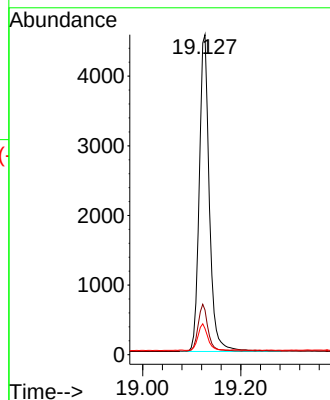
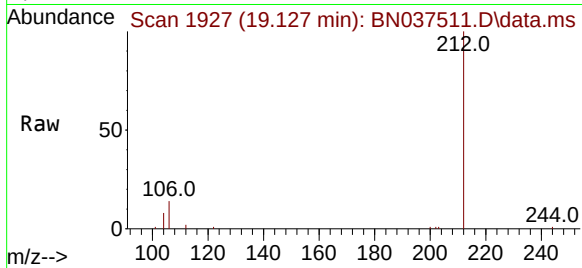




#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 19.127 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

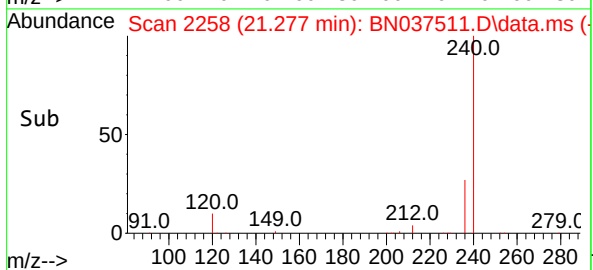
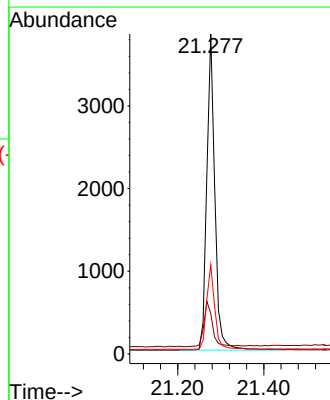
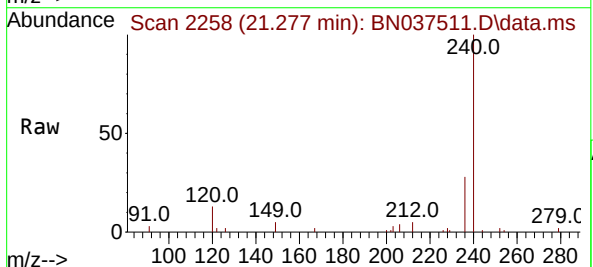
Instrument :
BNA_N
ClientSampleId :
PB168868BL

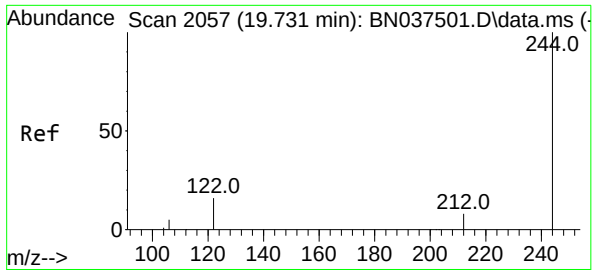
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.5	12.2	18.4
104	8.1	6.7	10.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.6	10.7	16.1
236	27.9	22.6	33.8

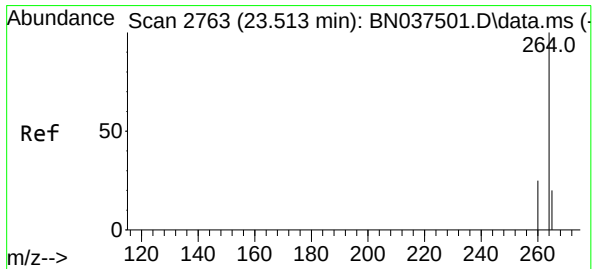
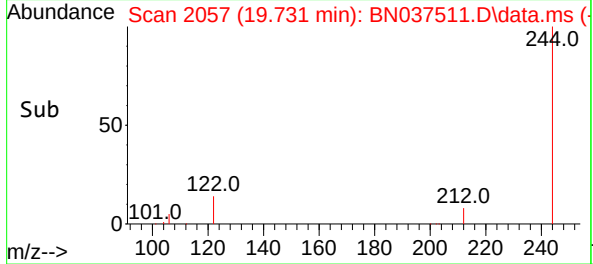
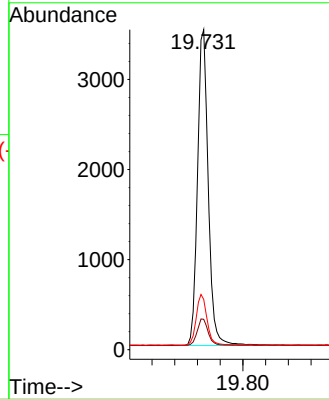
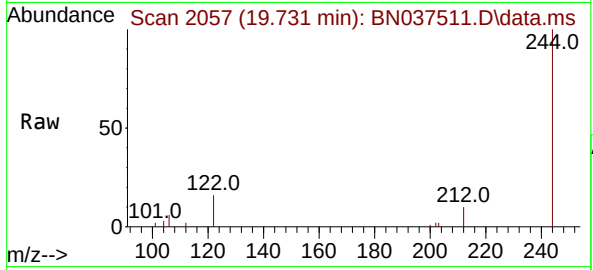




#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

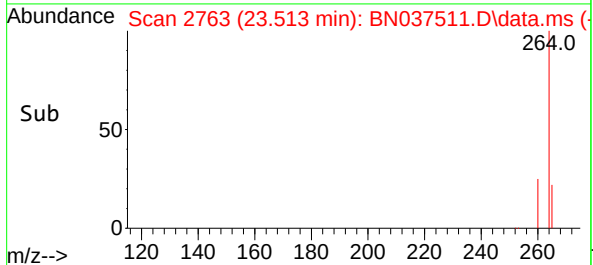
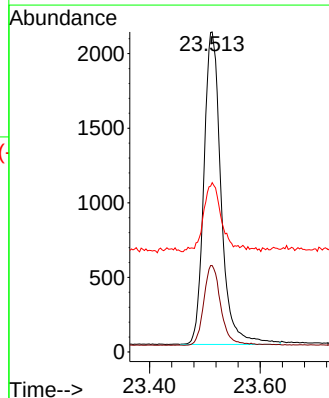
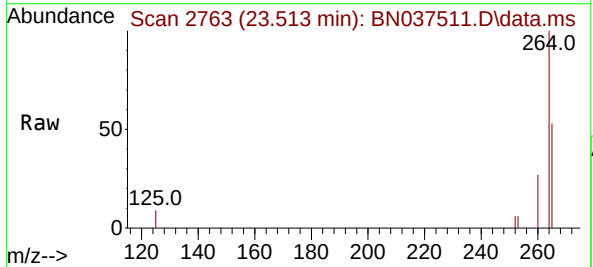
Instrument :
BNA_N
ClientSampleId :
PB168868BL

Tgt Ion:244 Resp: 4607
Ion Ratio Lower Upper
244 100
212 9.5 7.4 11.2
122 15.7 13.6 20.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 2763
Delta R.T. -0.000 min
Lab File: BN037511.D
Acq: 16 Jul 2025 10:27

Tgt Ion:264 Resp: 4525
Ion Ratio Lower Upper
264 100
260 27.0 21.2 31.8
265 52.9 40.4 60.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168868BS	SDG No.:	Q2604
Lab Sample ID:	PB168868BS	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
BN037516.D	1	07/15/25 11:40	07/16/25 13:29	PB168868

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	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1940	7.724				
1146-65-2	Naphthalene-d8	4720	10.509				
15067-26-2	Acenaphthene-d10	2340	14.355				
1517-22-2	Phenanthrene-d10	4410	17.099				
1719-03-5	Chrysene-d12	3170	21.277				
1520-96-3	Perylene-d12	2670	23.516				

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\BN071625\
 Data File : BN037516.D
 Acq On : 16 Jul 2025 13:29
 Operator : RC/JU
 Sample : PB168868BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168868BS

Quant Time: Jul 16 14:18:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 2025
 Response via : Initial Calibration

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

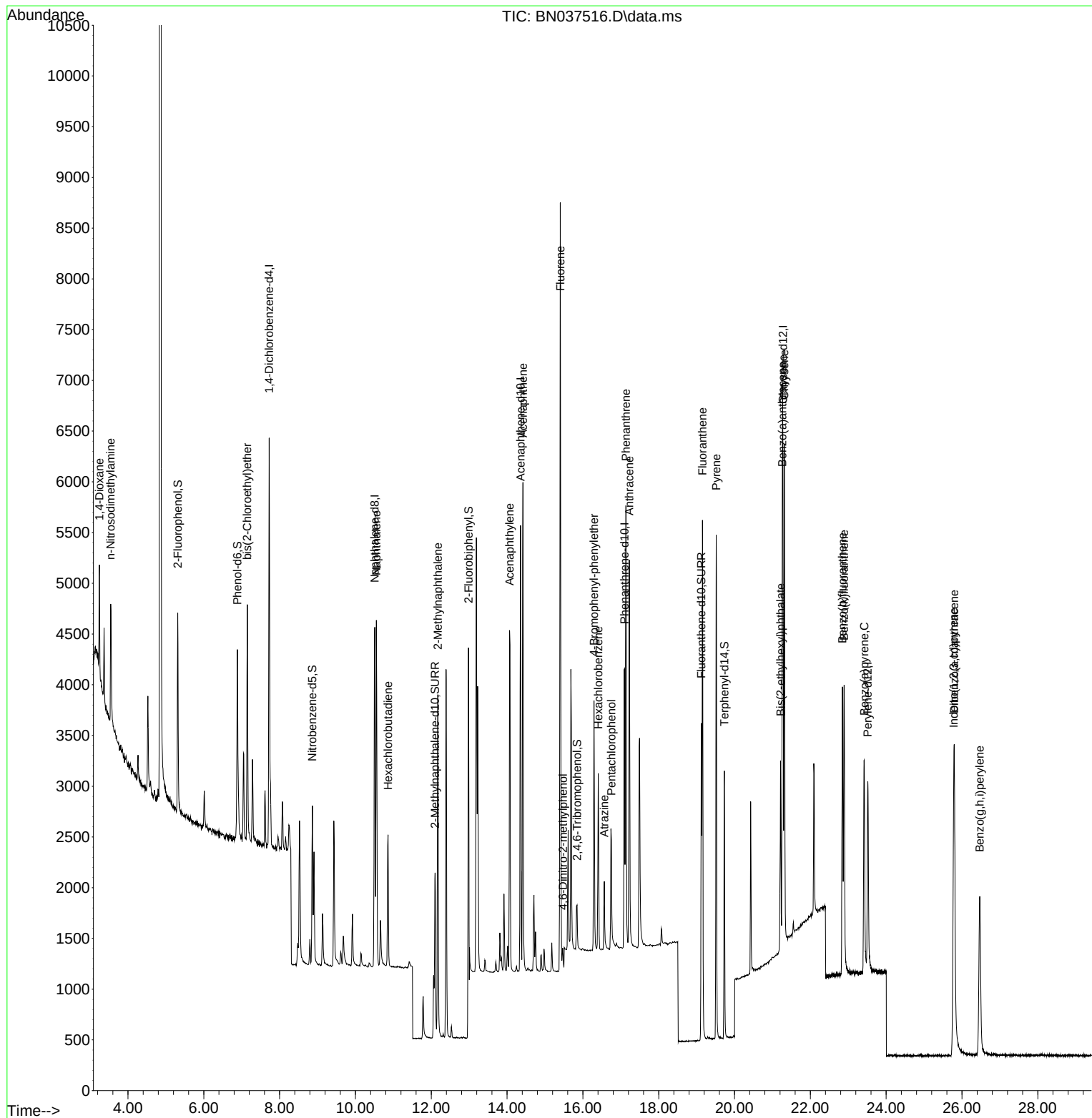
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1941	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4724	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2338	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	4406	0.400	ng	0.00
29) Chrysene-d12	21.277	240	3170	0.400	ng	# 0.00
35) Perylene-d12	23.516	264	2673	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1583	0.330	ng	0.00
5) Phenol-d6	6.886	99	1842	0.306	ng	0.00
8) Nitrobenzene-d5	8.864	82	1256	0.356	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	2518	0.372	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	319	0.278	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	4762	0.392	ng	0.00
27) Fluoranthene-d10	19.127	212	3669	0.314	ng	0.00
31) Terphenyl-d14	19.731	244	2698	0.396	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.246	88	584	0.313	ng	# 86
3) n-Nitrosodimethylamine	3.543	42	884	0.377	ng	91
6) bis(2-Chloroethyl)ether	7.146	93	1766	0.352	ng	99
9) Naphthalene	10.551	128	4462	0.354	ng	98
10) Hexachlorobutadiene	10.861	225	1143	0.411	ng	# 100
12) 2-Methylnaphthalene	12.172	142	2524	0.305	ng	98
16) Acenaphthylene	14.067	152	4119	0.393	ng	99
17) Acenaphthene	14.419	154	2481	0.348	ng	98
18) Fluorene	15.403	166	3145	0.343	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	156	0.353	ng	# 80
21) 4-Bromophenyl-phenylether	16.292	248	959	0.340	ng	99
22) Hexachlorobenzene	16.404	284	1396	0.383	ng	99
23) Atrazine	16.565	200	626	0.318	ng	97
24) Pentachlorophenol	16.751	266	741	0.453	ng	98
25) Phenanthrene	17.136	178	4669	0.354	ng	99
26) Anthracene	17.223	178	4245	0.352	ng	100
28) Fluoranthene	19.155	202	4753	0.312	ng	98
30) Pyrene	19.517	202	4670	0.366	ng	99
32) Benzo(a)anthracene	21.259	228	3845	0.346	ng	99
33) Chrysene	21.313	228	4286	0.371	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	1473	0.295	ng	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	4222	0.379	ng	98
37) Benzo(b)fluoranthene	22.844	252	3705	0.365	ng	96
38) Benzo(k)fluoranthene	22.891	252	3949	0.377	ng	96
39) Benzo(a)pyrene	23.420	252	3289	0.389	ng	95
40) Dibenzo(a,h)anthracene	25.797	278	3329	0.369	ng	94
41) Benzo(g,h,i)perylene	26.466	276	3528	0.378	ng	98

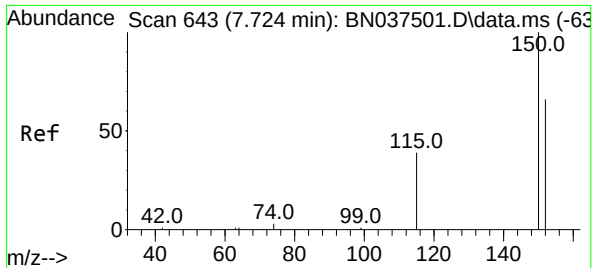
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037516.D
Acq On : 16 Jul 2025 13:29
Operator : RC/JU
Sample : PB168868BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168868BS

Quant Time: Jul 16 14:18:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 16 02:38:11 2025
Response via : Initial Calibration

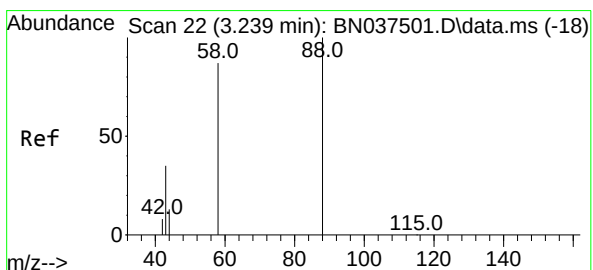
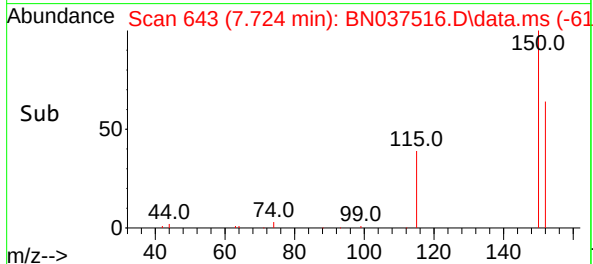
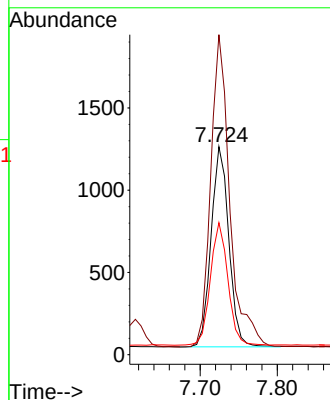
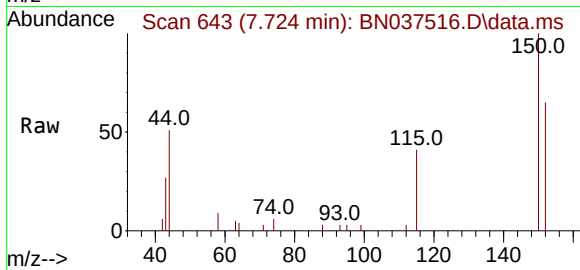




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN037516.D
 Acq: 16 Jul 2025 13:29

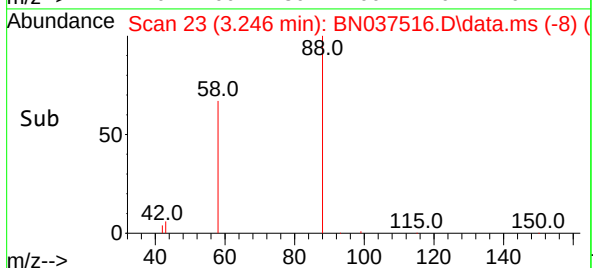
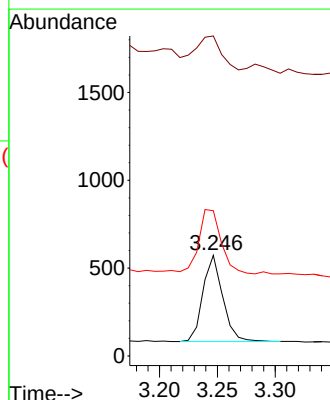
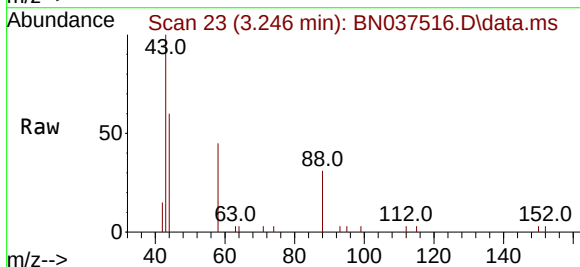
Instrument :
 BNA_N
 ClientSampleId :
 PB168868BS

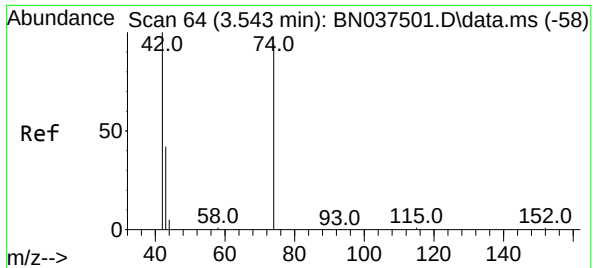
Tgt Ion:152 Resp: 1941
 Ion Ratio Lower Upper
 152 100
 150 153.9 119.8 179.8
 115 63.5 49.1 73.7



#2
 1,4-Dioxane
 Concen: 0.313 ng
 RT: 3.246 min Scan# 23
 Delta R.T. 0.007 min
 Lab File: BN037516.D
 Acq: 16 Jul 2025 13:29

Tgt Ion: 88 Resp: 584
 Ion Ratio Lower Upper
 88 100
 43 52.4 27.5 41.3#
 58 83.9 62.7 94.1

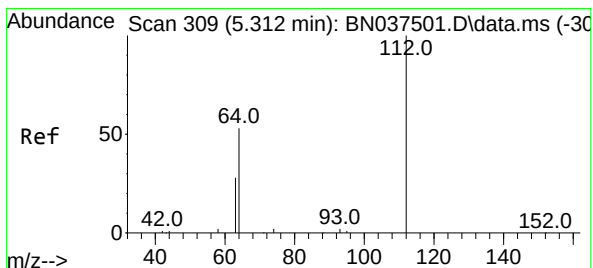
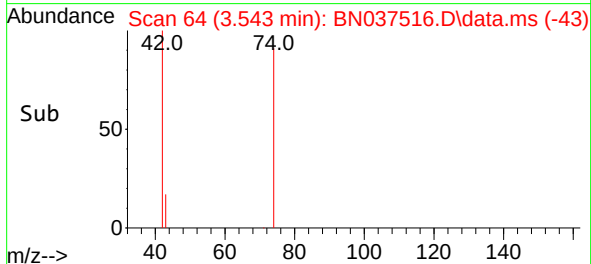
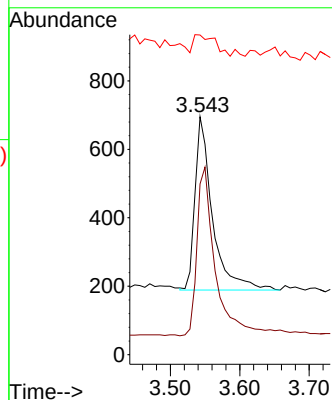
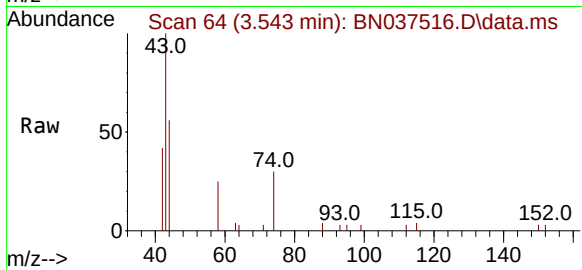




#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

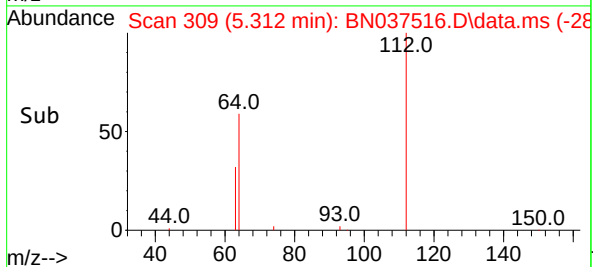
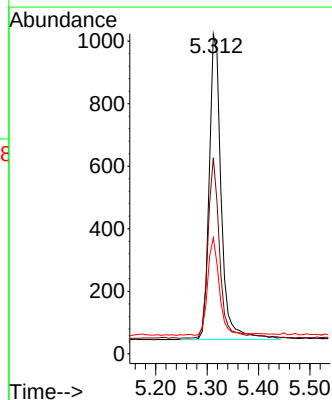
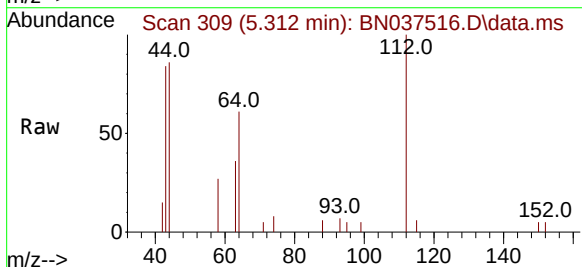
Instrument :
BNA_N
ClientSampleId :
PB168868BS

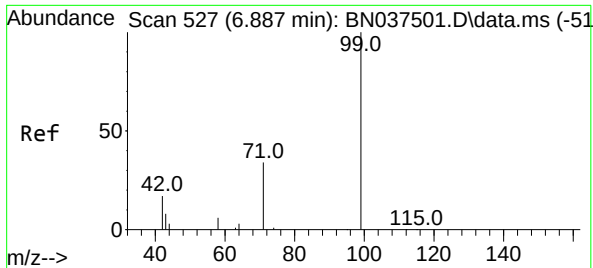
Tgt Ion: 42 Resp: 884
Ion Ratio Lower Upper
42 100
74 104.2 91.8 137.6
44 15.2 15.0 22.6



#4
2-Fluorophenol
Concen: 0.330 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion: 112 Resp: 1583
Ion Ratio Lower Upper
112 100
64 57.9 45.1 67.7
63 31.0 23.8 35.8

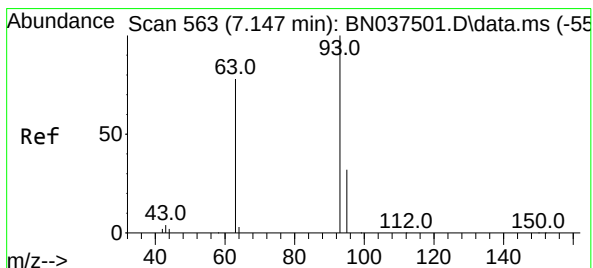
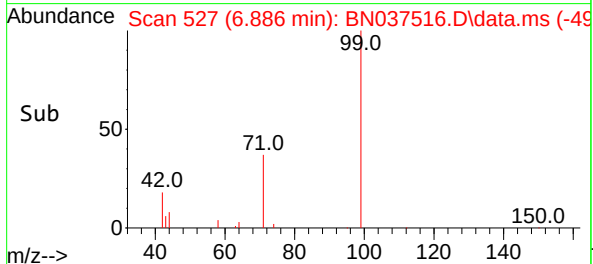
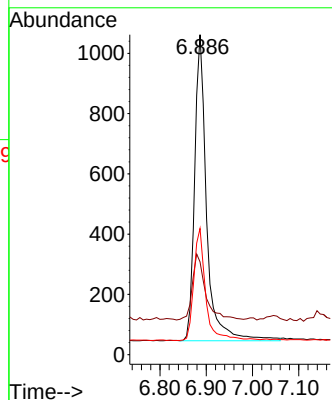
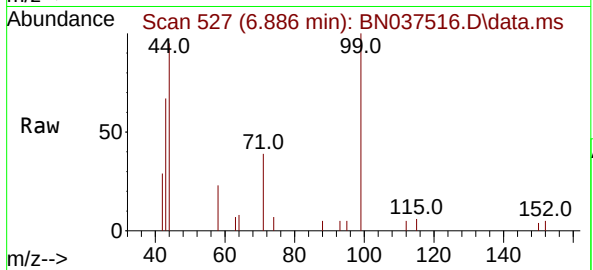




#5
Phenol-d6
Concen: 0.306 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

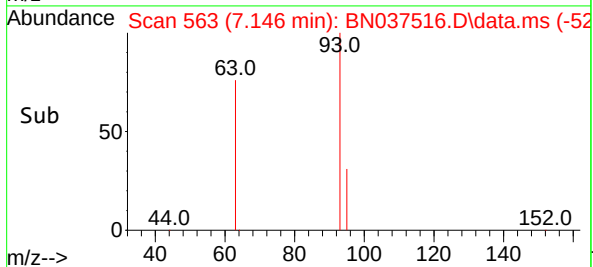
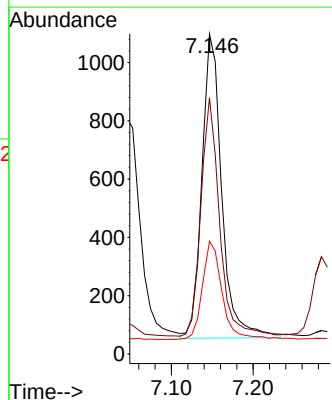
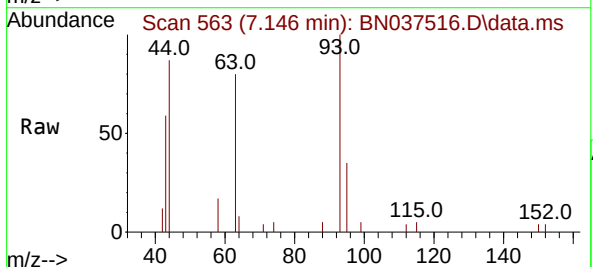
Instrument :
BNA_N
ClientSampleId :
PB168868BS

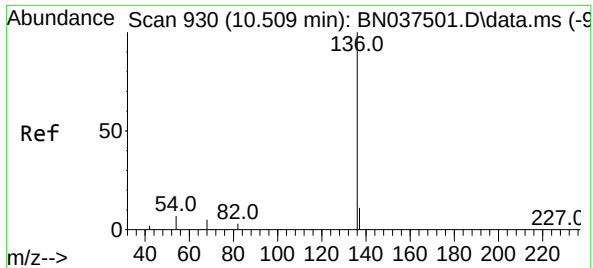
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.6	17.1	25.7
71	35.8	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.352 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion	Ratio	Lower	Upper
93	100		
63	73.8	58.2	87.4
95	32.2	25.3	37.9

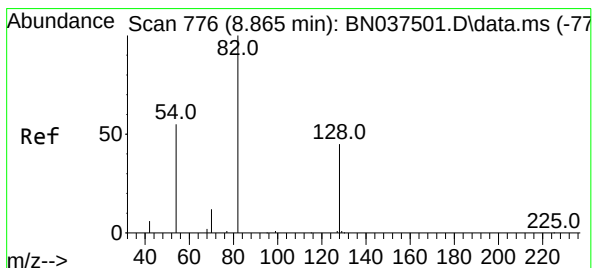
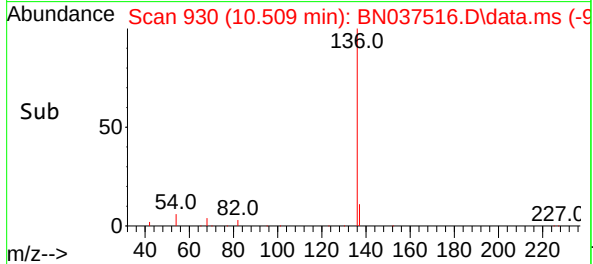
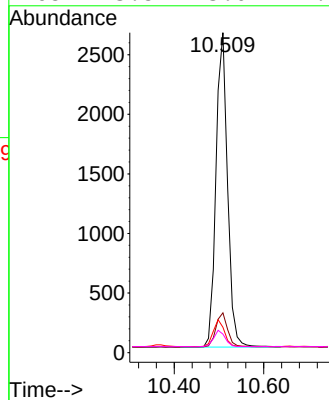
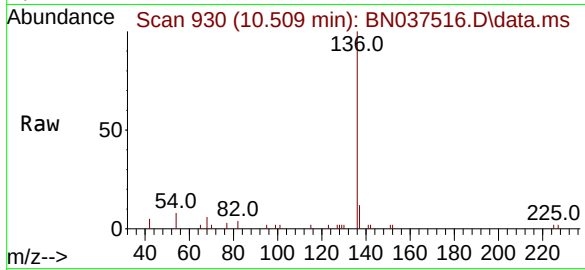




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

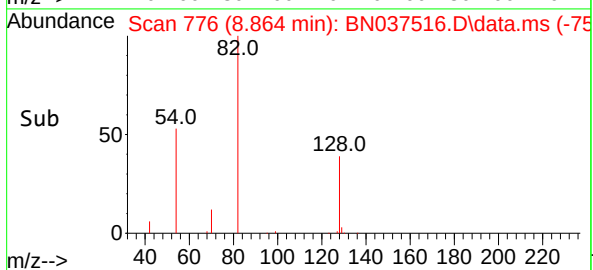
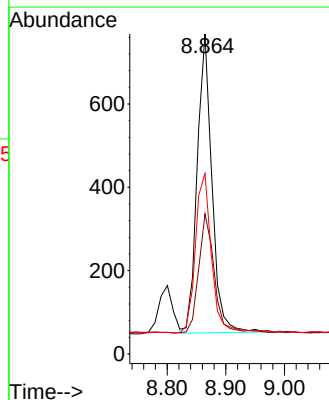
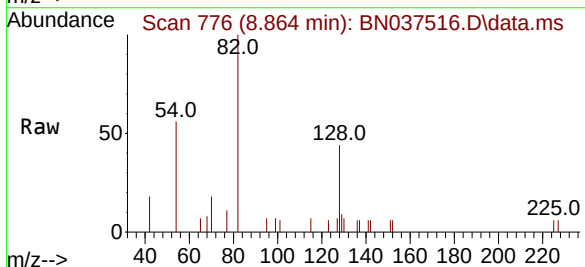
Instrument :
BNA_N
ClientSampleId :
PB168868BS

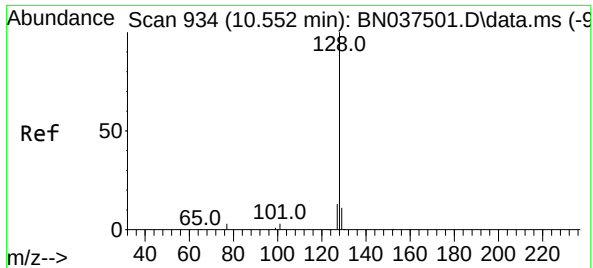
Tgt Ion:	136	Resp:	4724
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.8	14.8
54	7.9	6.6	9.8
68	5.8	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.356 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:	82	Resp:	1256
Ion	Ratio	Lower	Upper
82	100		
128	43.8	37.5	56.3
54	56.4	45.3	67.9

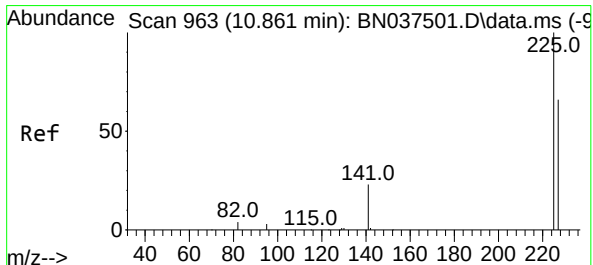
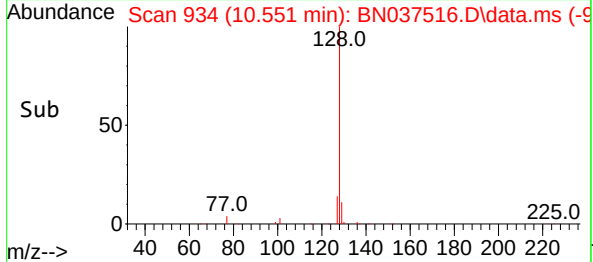
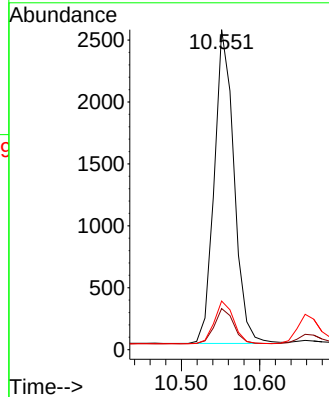
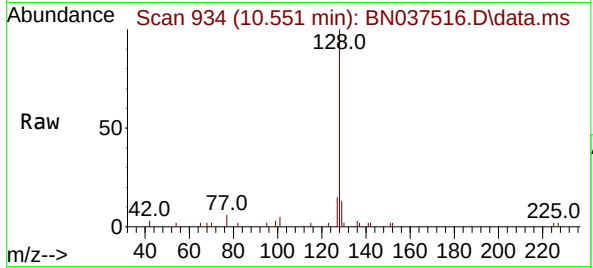




#9
Naphthalene
Concen: 0.354 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

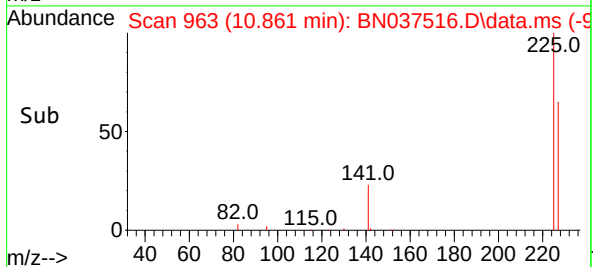
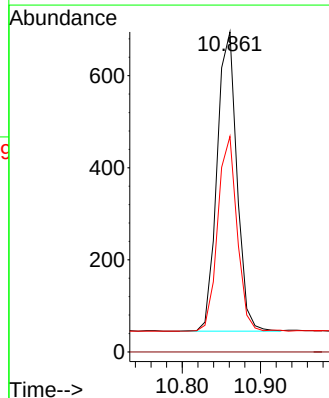
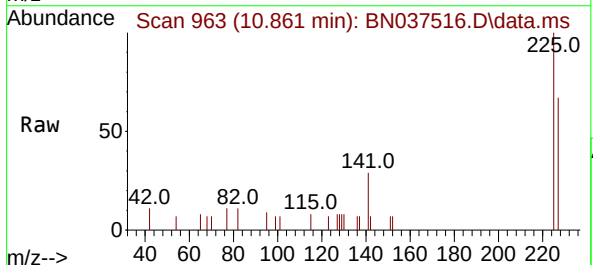
Instrument :
BNA_N
ClientSampleId :
PB168868BS

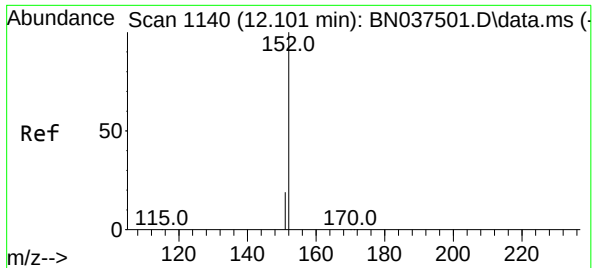
Tgt Ion:	128	Resp:	4462
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.7	14.5
127	15.2	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.861 min Scan# 963
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:	225	Resp:	1143
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.0	76.4

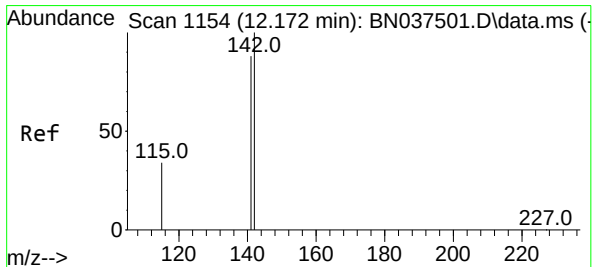
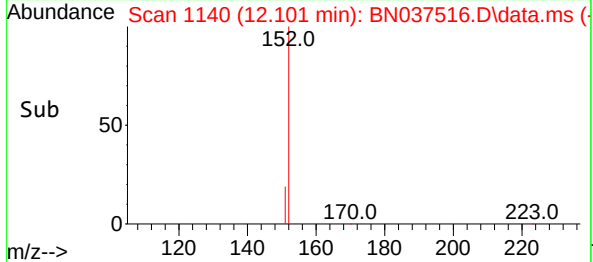
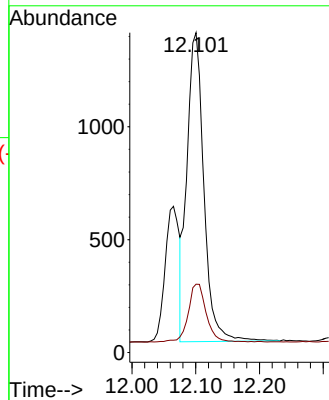
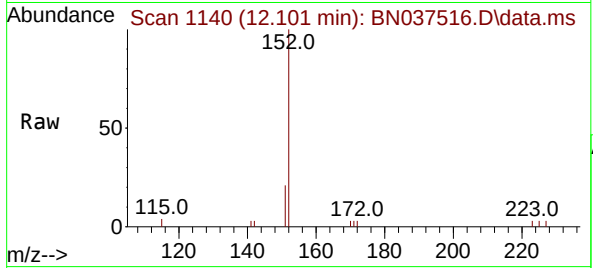




#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

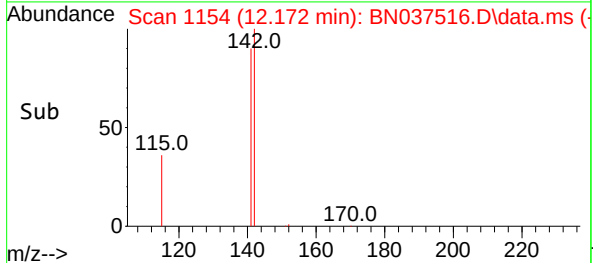
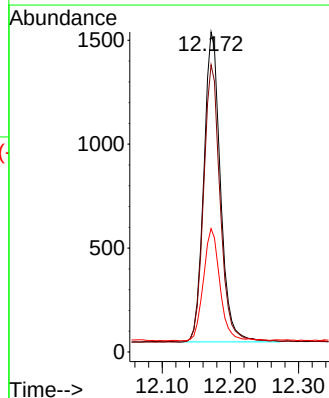
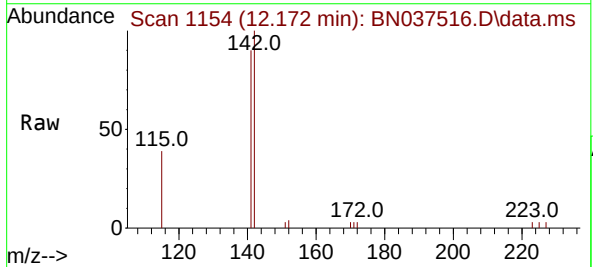
Instrument :
BNA_N
ClientSampleId :
PB168868BS

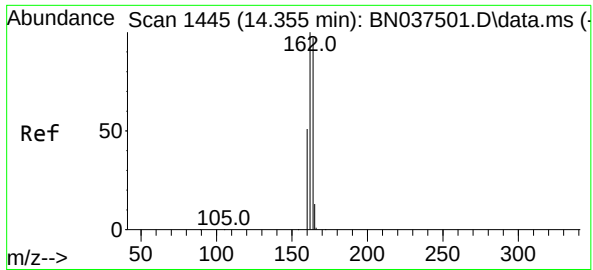
Tgt Ion:152 Resp: 2518
Ion Ratio Lower Upper
152 100
151 20.3 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.305 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:142 Resp: 2524
Ion Ratio Lower Upper
142 100
141 89.7 71.0 106.4
115 38.6 29.0 43.4

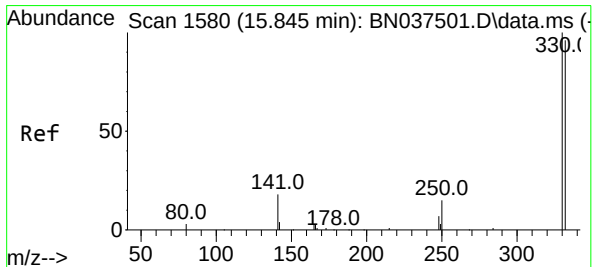
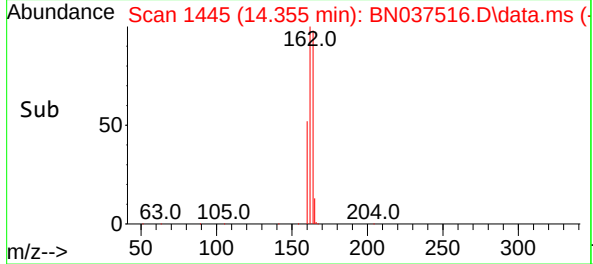
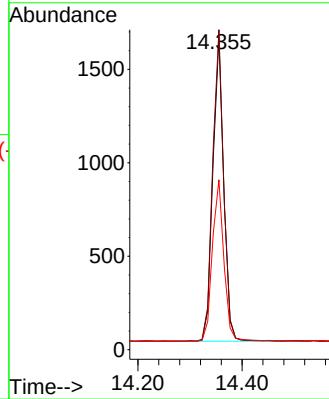
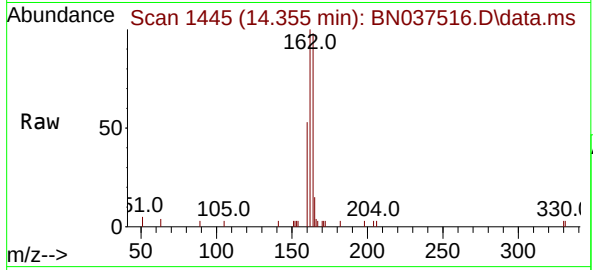




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

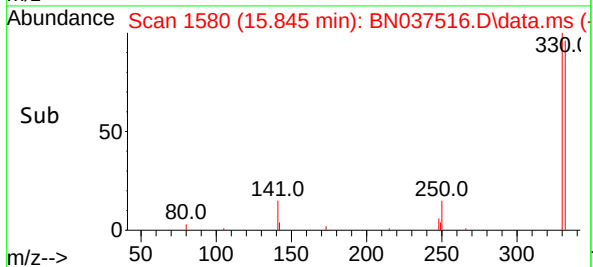
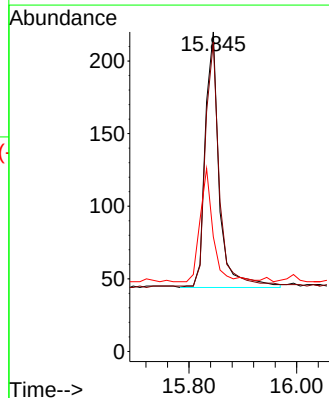
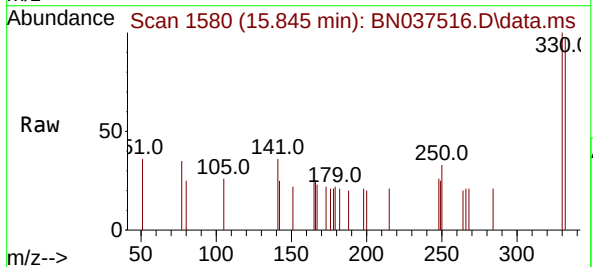
Instrument :
BNA_N
ClientSampleId :
PB168868BS

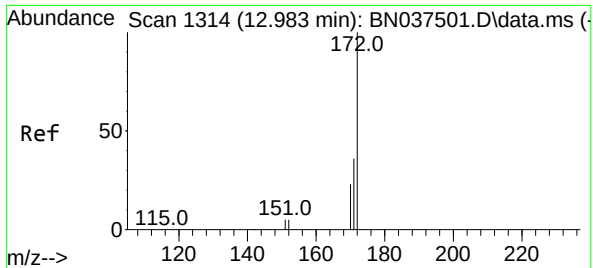
Tgt Ion:	164	Resp:	2338
Ion	Ratio	Lower	Upper
164	100		
162	102.5	82.0	123.0
160	54.4	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.278 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:	330	Resp:	319
Ion	Ratio	Lower	Upper
330	100		
332	94.7	76.1	114.1
141	41.4	33.4	50.0

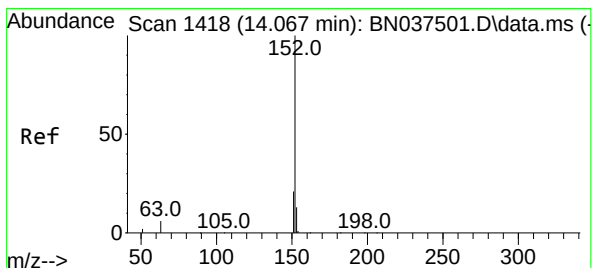
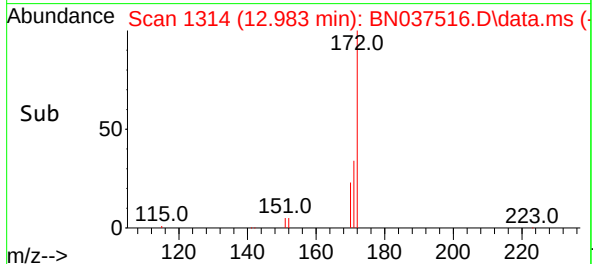
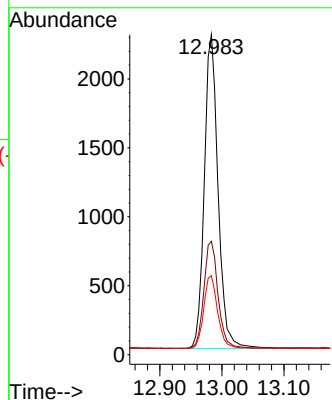
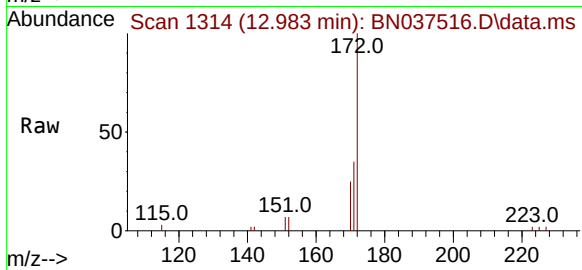




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.983 min Scan# 1314
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

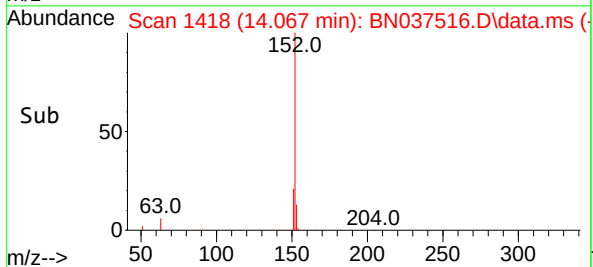
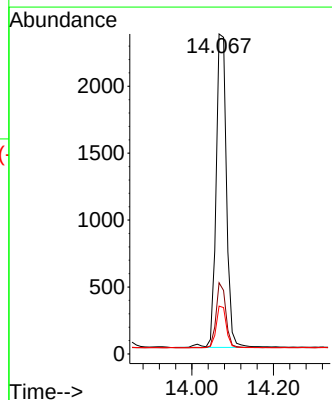
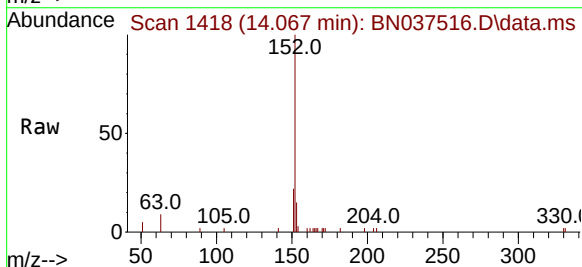
Instrument :
BNA_N
ClientSampleId :
PB168868BS

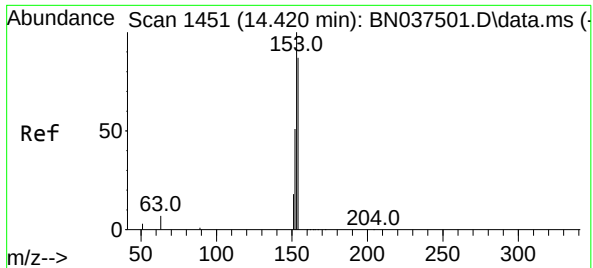
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.4	44.2
170	24.7	19.4	29.0



#16
Acenaphthylene
Concen: 0.393 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.9	23.9
153	13.0	10.7	16.1

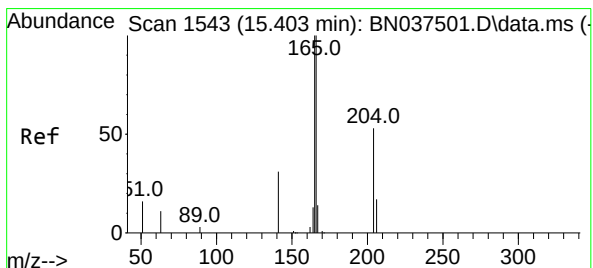
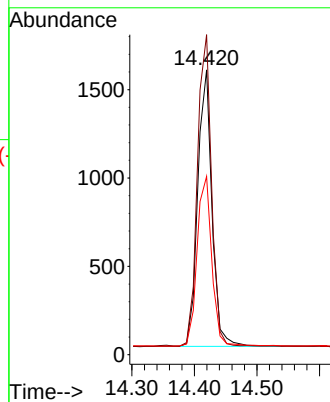
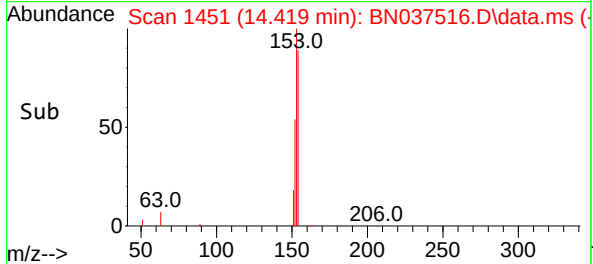
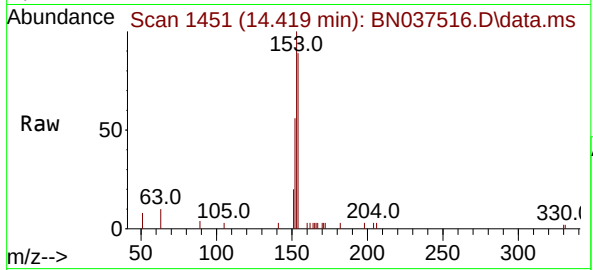




#17
Acenaphthene
Concen: 0.348 ng
RT: 14.419 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

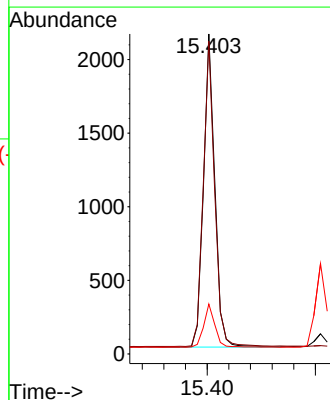
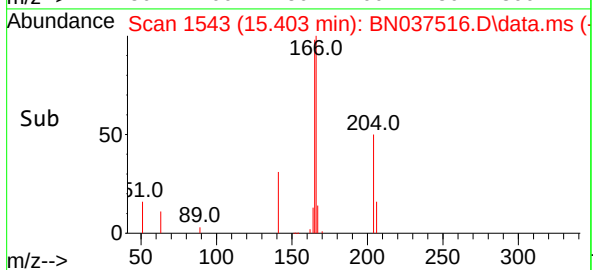
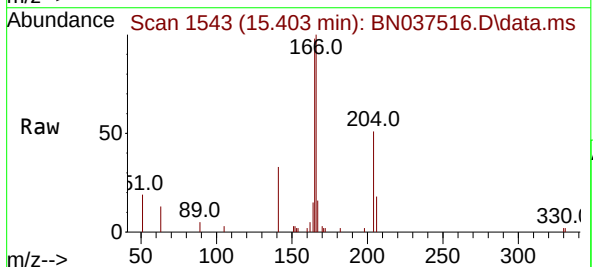
Instrument :
BNA_N
ClientSampleId :
PB168868BS

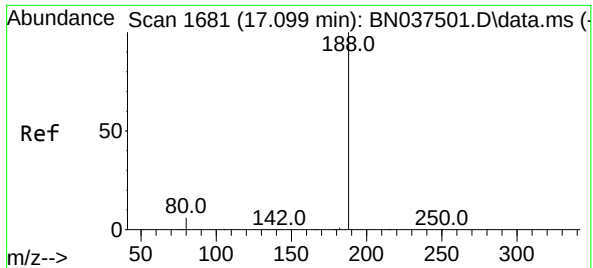
Tgt Ion:154 Resp: 2481
Ion Ratio Lower Upper
154 100
153 112.1 89.2 133.8
152 63.6 48.0 72.0



#18
Fluorene
Concen: 0.343 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:166 Resp: 3145
Ion Ratio Lower Upper
166 100
165 97.0 78.1 117.1
167 13.7 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: BN037516.D

Acq: 16 Jul 2025 13:29

Instrument :

BNA_N

ClientSampleId :

PB168868BS

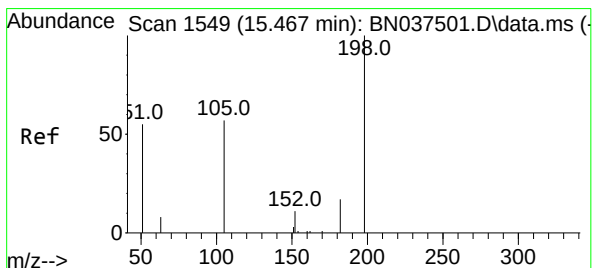
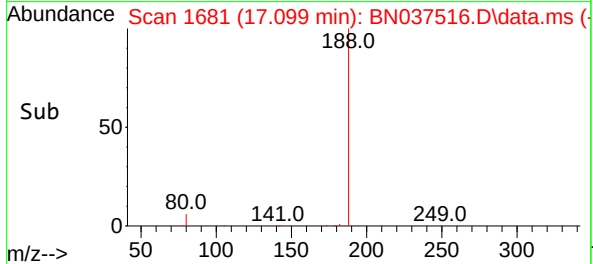
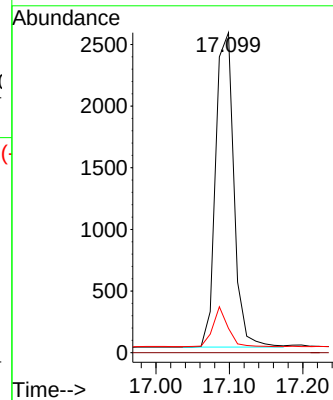
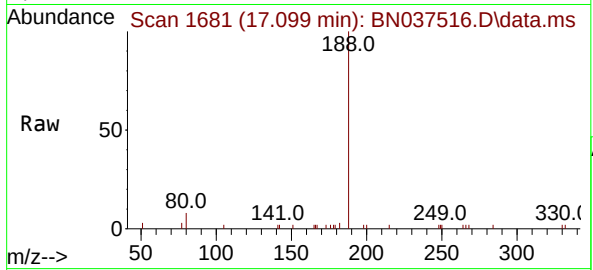
Tgt Ion:188 Resp: 4406

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: 0.353 ng

RT: 15.478 min Scan# 1550

Delta R.T. 0.011 min

Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

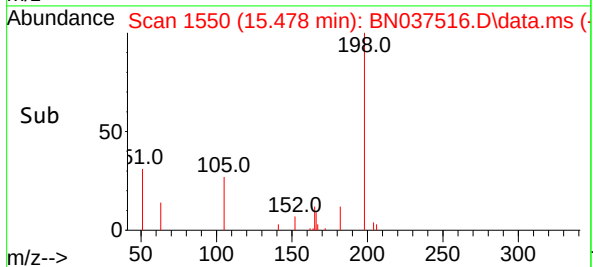
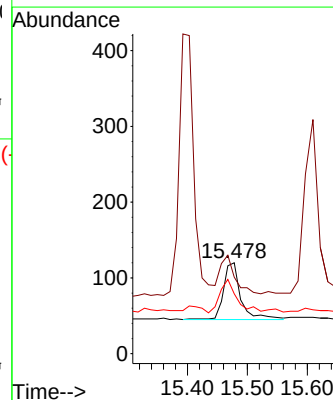
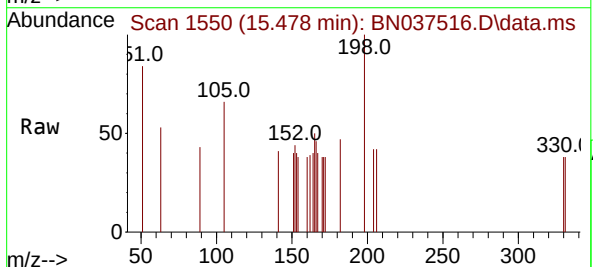
Tgt Ion:198 Resp: 156

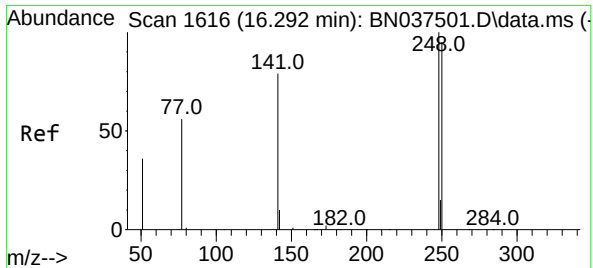
Ion Ratio Lower Upper

198 100

51 84.2 88.5 132.7#

105 65.8 61.2 91.8

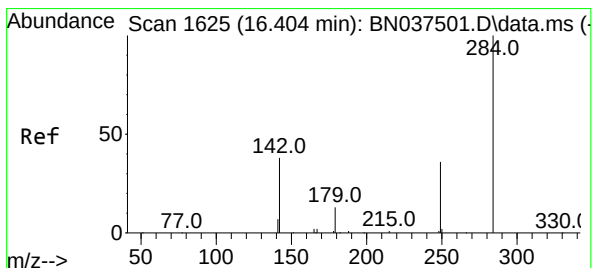
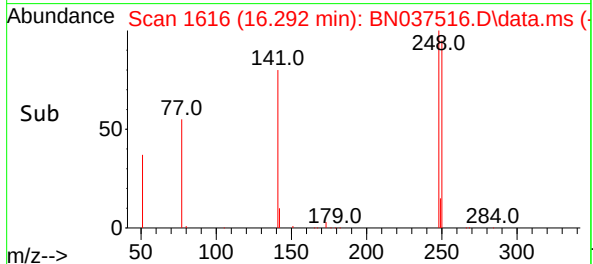
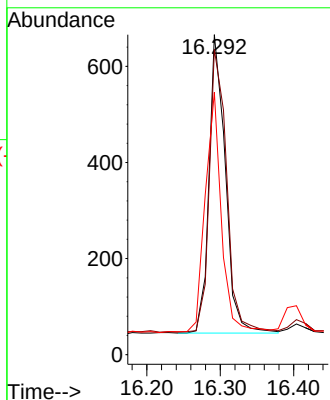
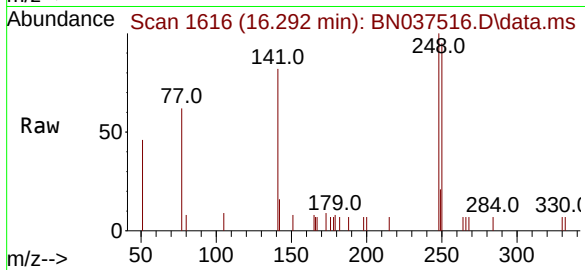




#21
4-Bromophenyl-phenylether
Concen: 0.340 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

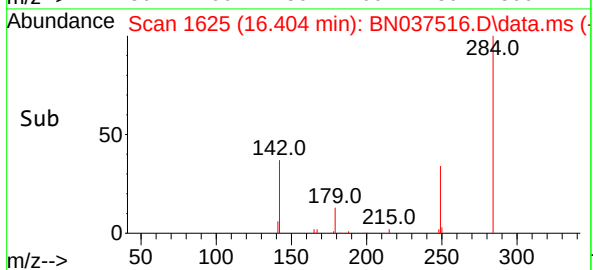
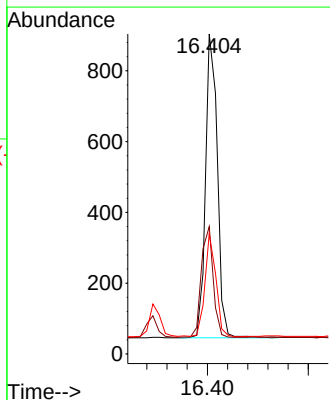
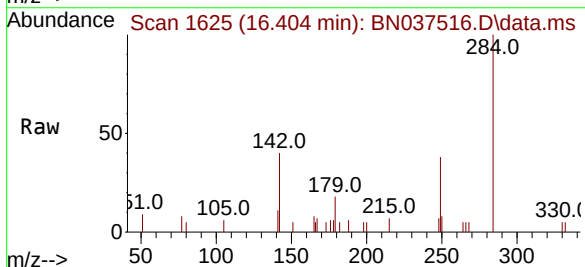
Instrument :
BNA_N
ClientSampleId :
PB168868BS

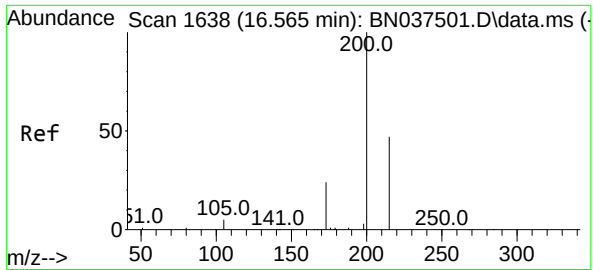
Tgt Ion:248 Resp: 959
Ion Ratio Lower Upper
248 100
250 95.3 76.2 114.2
141 82.0 63.9 95.9



#22
Hexachlorobenzene
Concen: 0.383 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:284 Resp: 1396
Ion Ratio Lower Upper
284 100
142 36.9 28.9 43.3
249 31.6 25.8 38.6





#23

Atrazine

Concen: 0.318 ng

RT: 16.565 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

Instrument :

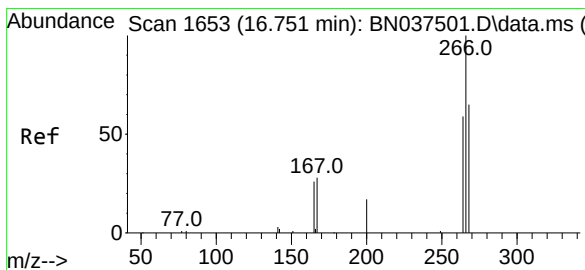
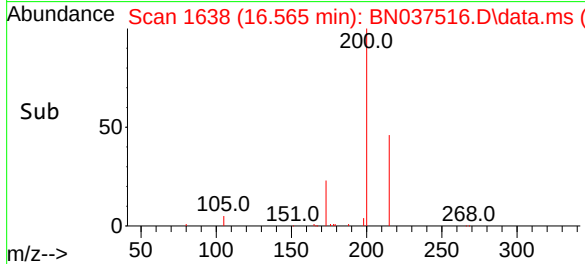
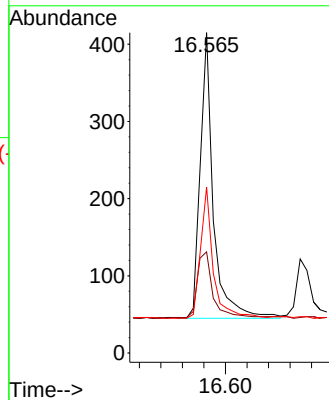
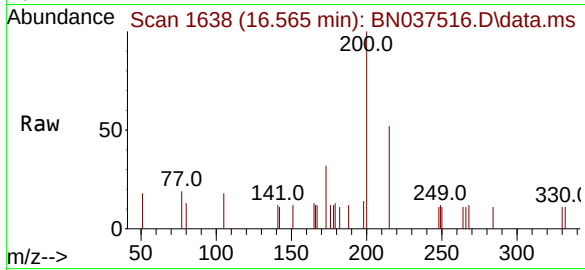
BNA_N

ClientSampleId :

PB168868BS

Tgt Ion:200 Resp: 626

Ion	Ratio	Lower	Upper
200	100		
173	31.6	23.2	34.8
215	51.8	40.2	60.4



#24

Pentachlorophenol

Concen: 0.453 ng

RT: 16.751 min Scan# 1653

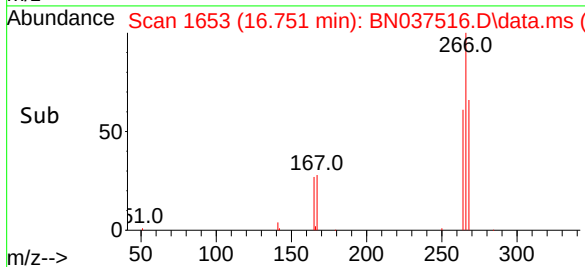
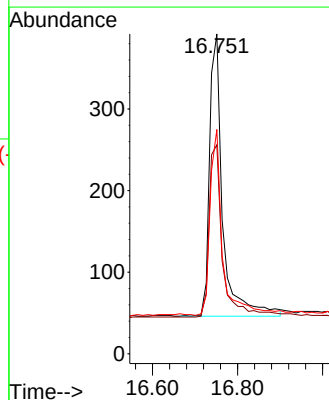
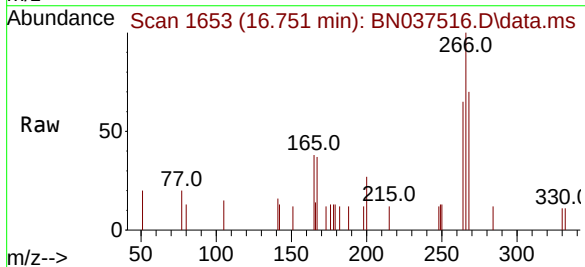
Delta R.T. -0.000 min

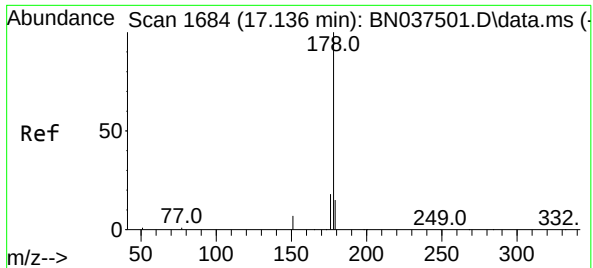
Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

Tgt Ion:266 Resp: 741

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.3	73.9
268	62.9	51.6	77.4

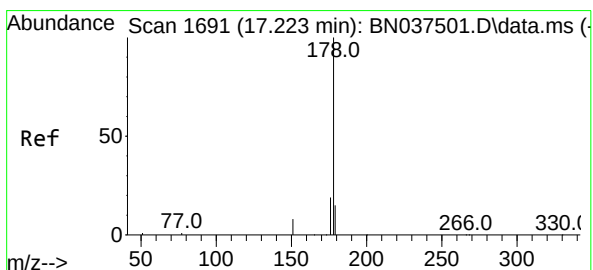
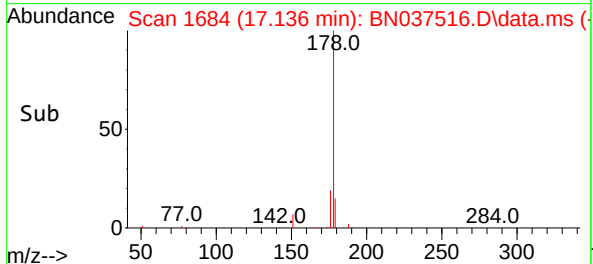
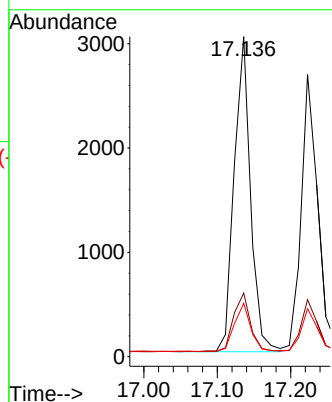
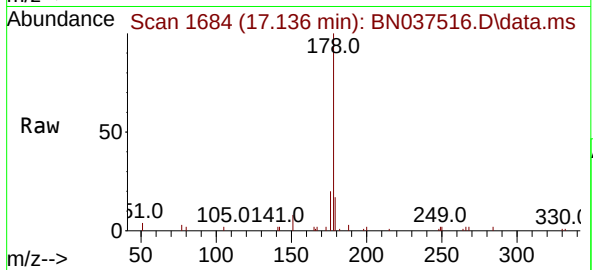




#25
Phenanthrene
Concen: 0.354 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

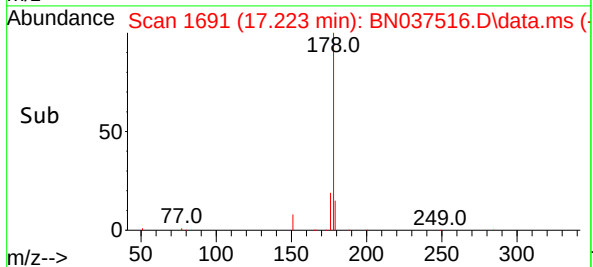
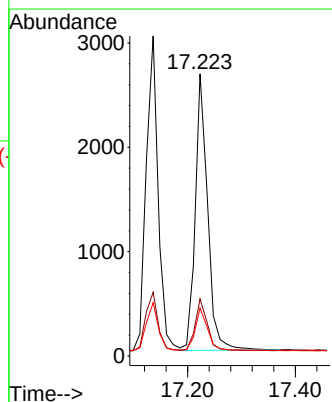
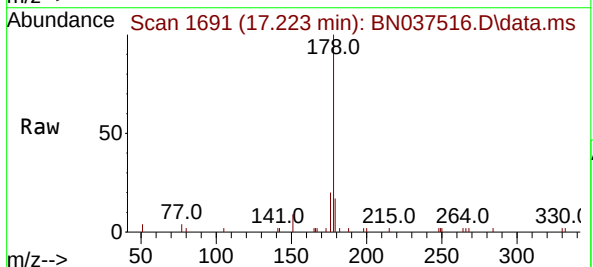
Instrument :
BNA_N
ClientSampleId :
PB168868BS

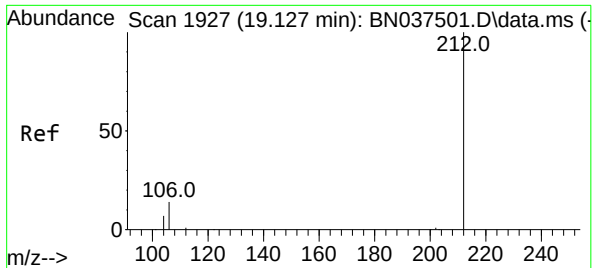
Tgt Ion:178 Resp: 4669
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.352 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:178 Resp: 4245
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.314 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

Instrument :

BNA_N

ClientSampleId :

PB168868BS

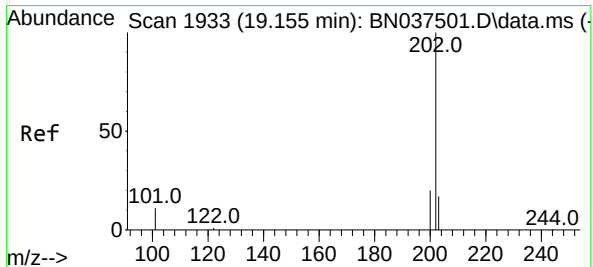
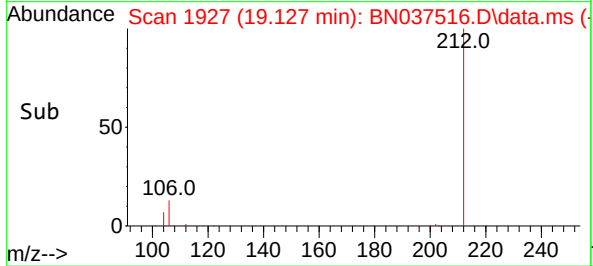
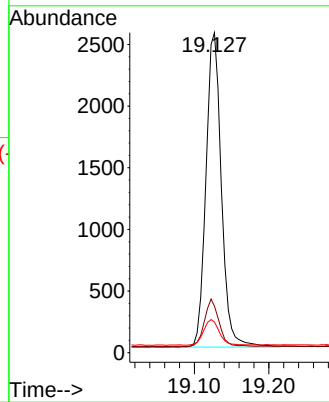
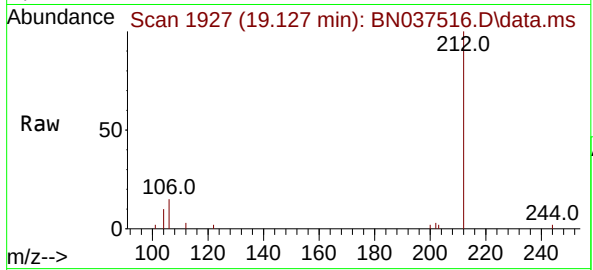
Tgt Ion:212 Resp: 3669

Ion Ratio Lower Upper

212 100

106 14.2 12.2 18.4

104 8.2 6.7 10.1



#28

Fluoranthene

Concen: 0.312 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

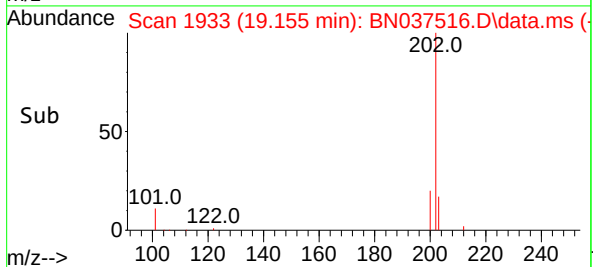
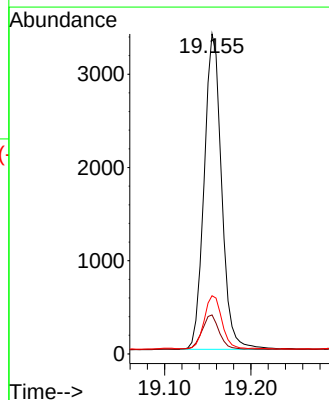
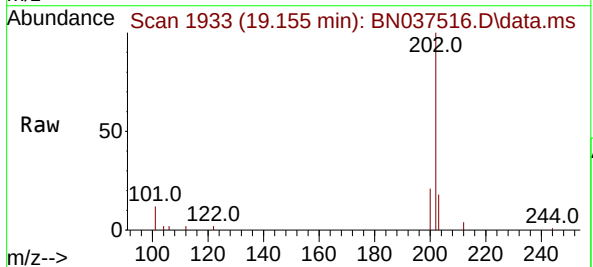
Tgt Ion:202 Resp: 4753

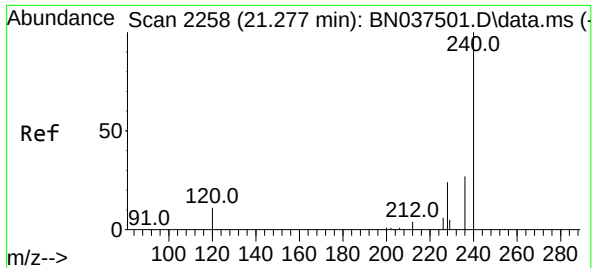
Ion Ratio Lower Upper

202 100

101 10.8 9.8 14.6

203 17.3 13.6 20.4

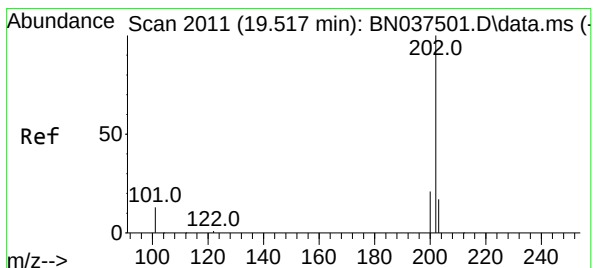
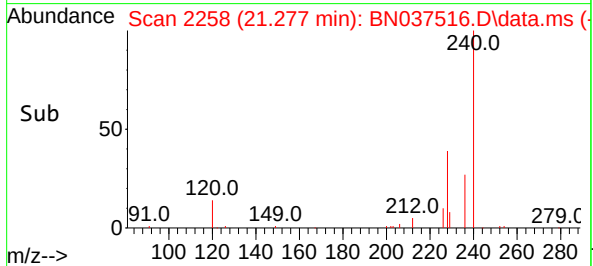
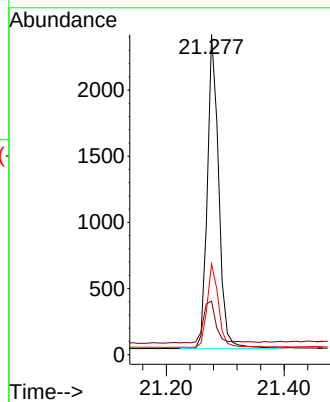
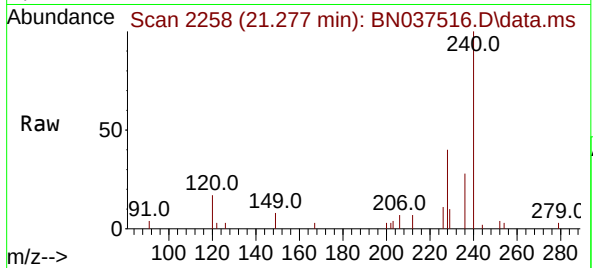




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

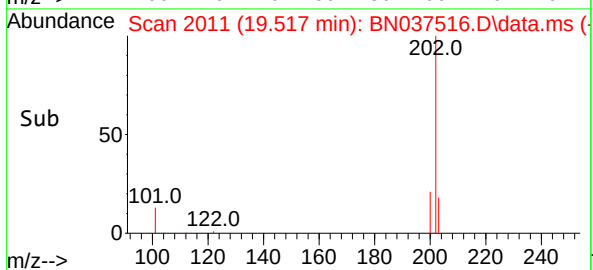
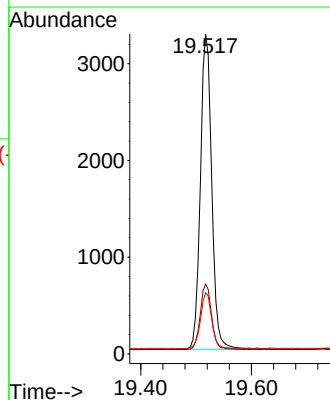
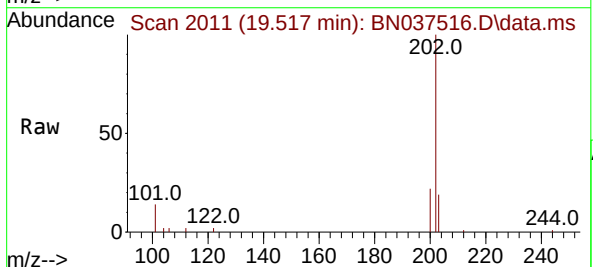
Instrument :
BNA_N
ClientSampleId :
PB168868BS

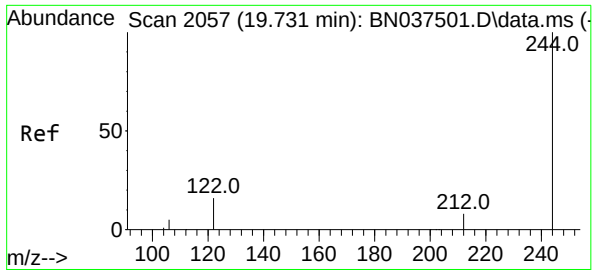
Tgt Ion:240 Resp: 3170
Ion Ratio Lower Upper
240 100
120 16.7 10.7 16.1#
236 28.3 22.6 33.8



#30
Pyrene
Concen: 0.366 ng
RT: 19.517 min Scan# 2011
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:202 Resp: 4670
Ion Ratio Lower Upper
202 100
200 20.5 16.5 24.7
203 17.4 14.3 21.5

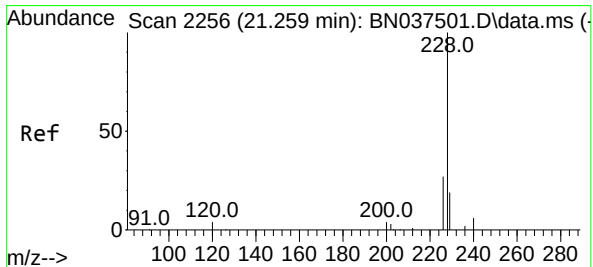
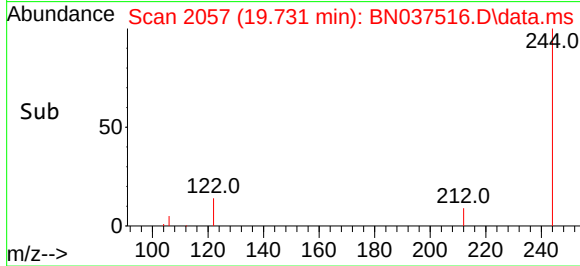
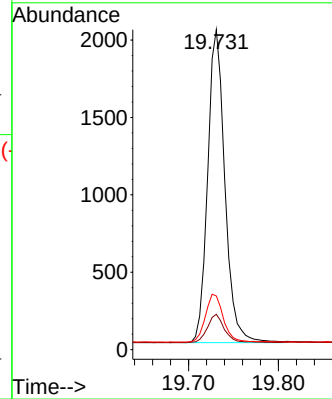
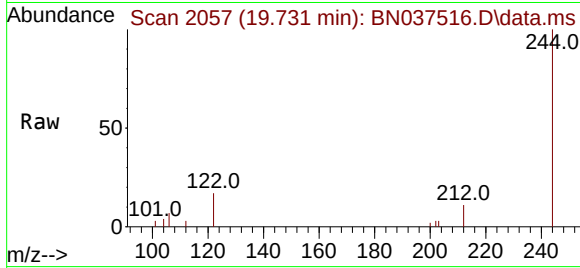




#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

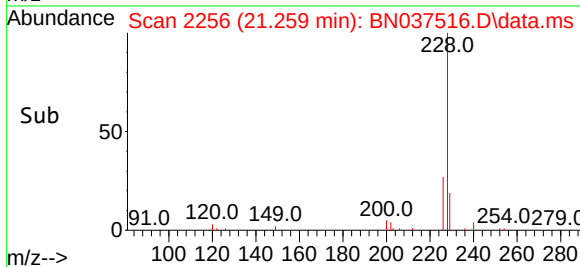
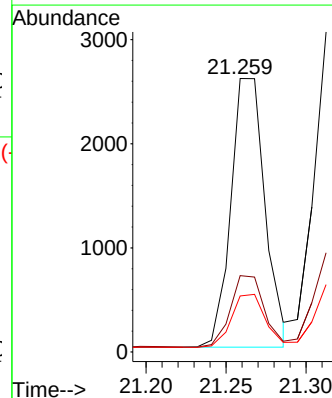
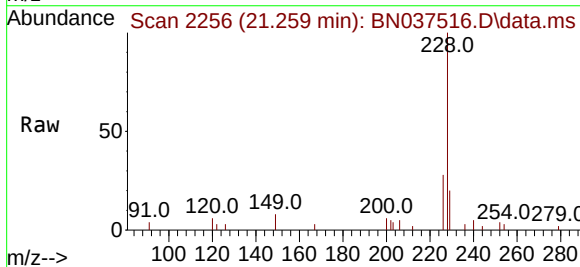
Instrument :
BNA_N
ClientSampleId :
PB168868BS

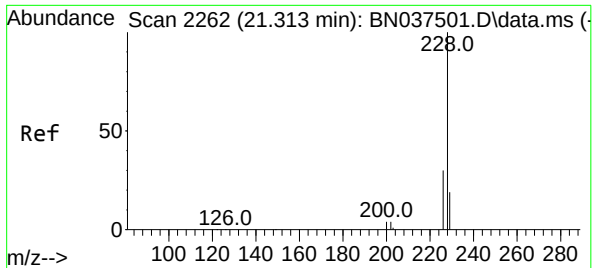
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	7.4	11.2
122	16.8	13.6	20.4



#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	21.9	32.9
229	20.5	15.8	23.8





#33

Chrysene

Concen: 0.371 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

Instrument :

BNA_N

ClientSampleId :

PB168868BS

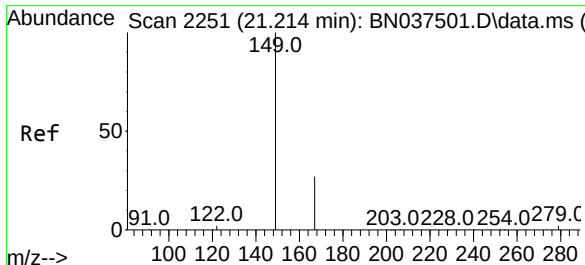
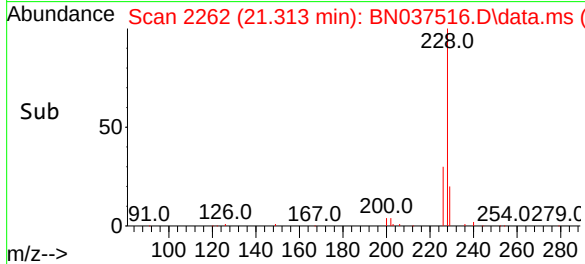
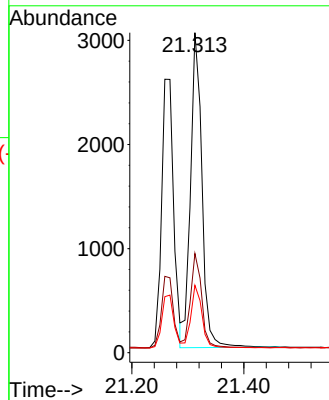
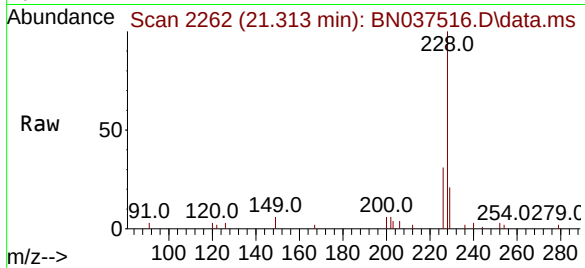
Tgt Ion:228 Resp: 4286

Ion Ratio Lower Upper

228 100

226 31.0 24.2 36.4

229 21.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.295 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

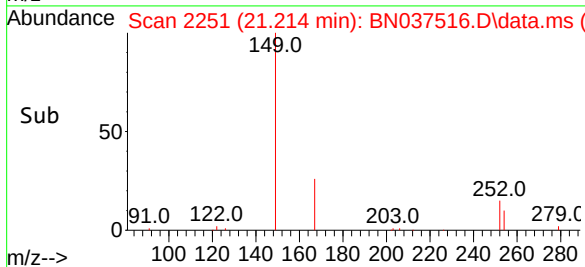
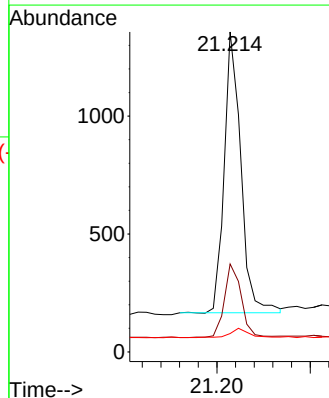
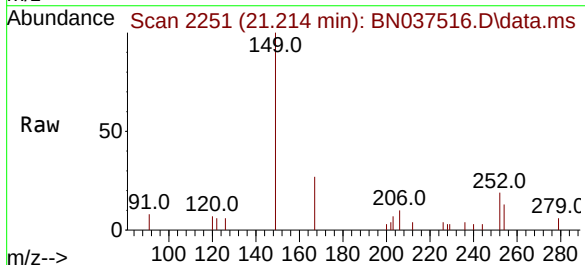
Tgt Ion:149 Resp: 1473

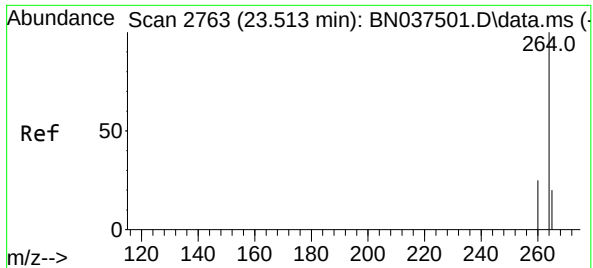
Ion Ratio Lower Upper

149 100

167 26.7 21.8 32.8

279 3.6 3.0 4.4

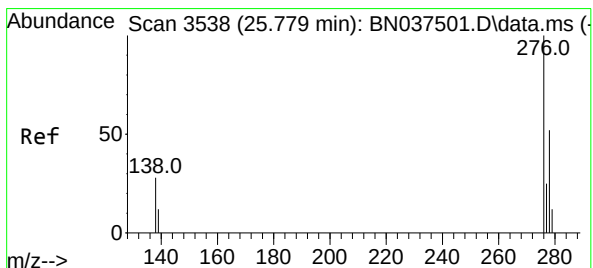
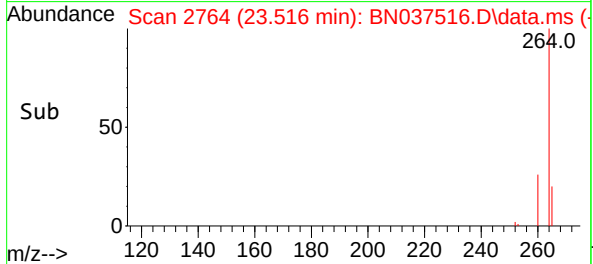
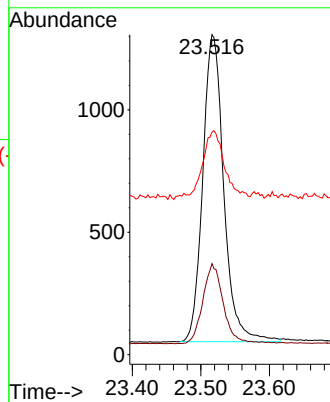
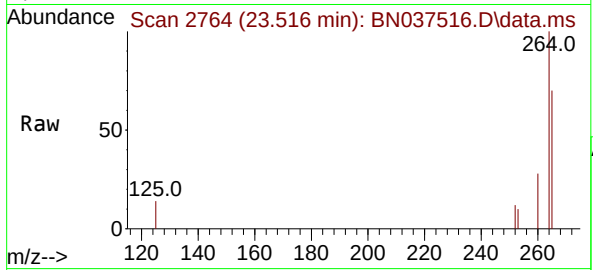




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

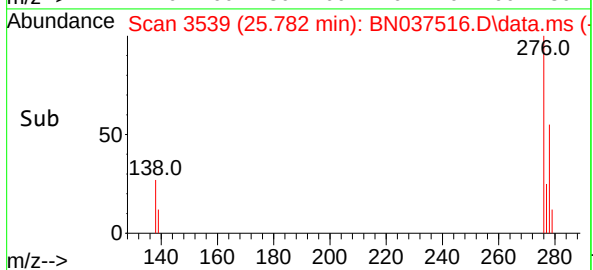
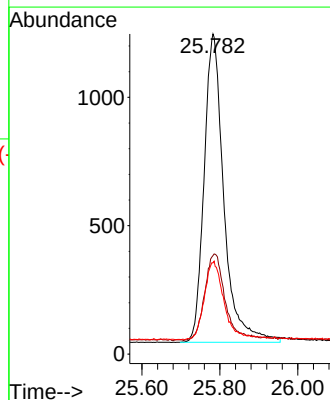
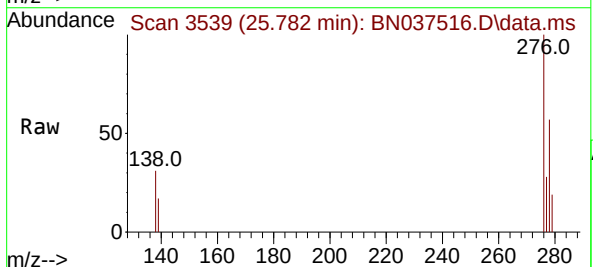
Instrument :
BNA_N
ClientSampleId :
PB168868BS

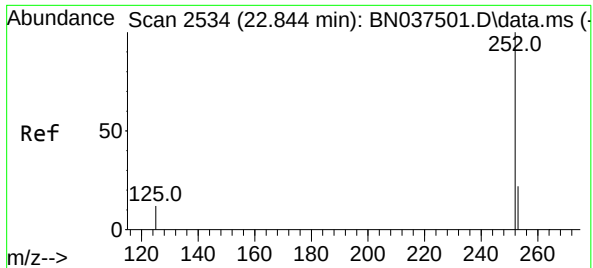
Tgt Ion:264 Resp: 2673
Ion Ratio Lower Upper
264 100
260 28.5 21.2 31.8
265 69.6 40.4 60.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.379 ng
RT: 25.782 min Scan# 3539
Delta R.T. 0.003 min
Lab File: BN037516.D
Acq: 16 Jul 2025 13:29

Tgt Ion:276 Resp: 4222
Ion Ratio Lower Upper
276 100
138 28.8 24.0 36.0
277 25.1 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.365 ng

RT: 22.844 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

Instrument :

BNA_N

ClientSampleId :

PB168868BS

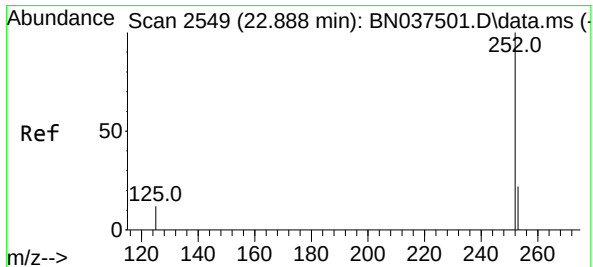
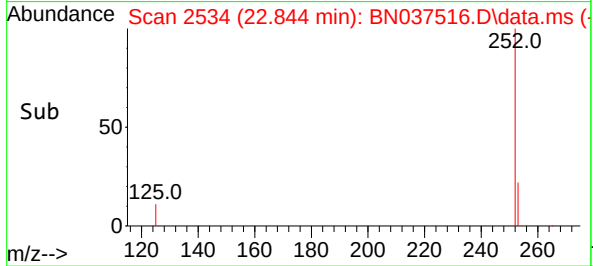
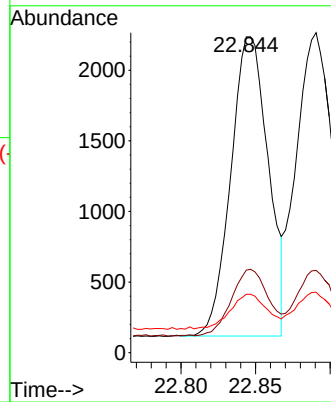
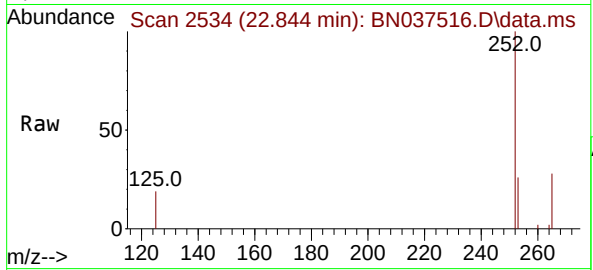
Tgt Ion:252 Resp: 3705

Ion Ratio Lower Upper

252 100

253 26.2 19.5 29.3

125 18.5 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.377 ng

RT: 22.891 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037516.D

Acq: 16 Jul 2025 13:29

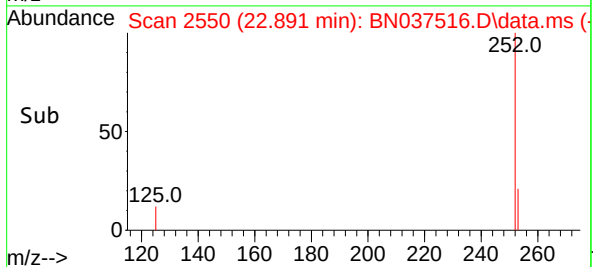
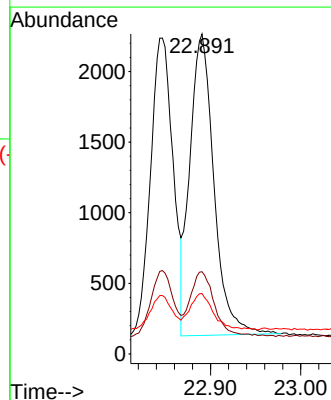
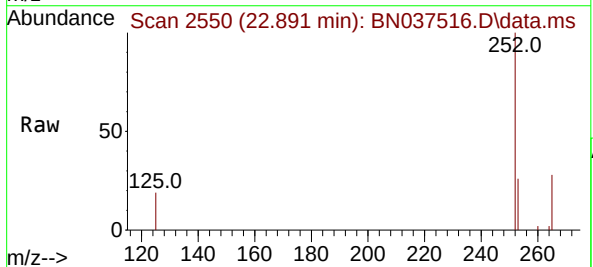
Tgt Ion:252 Resp: 3949

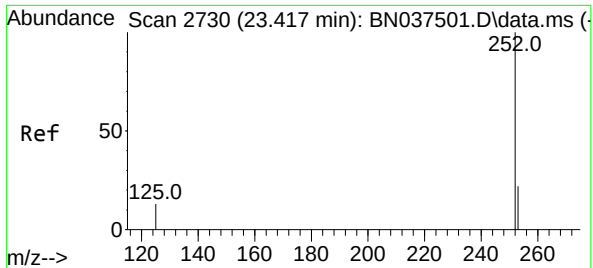
Ion Ratio Lower Upper

252 100

253 25.7 19.5 29.3

125 18.9 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037516.D

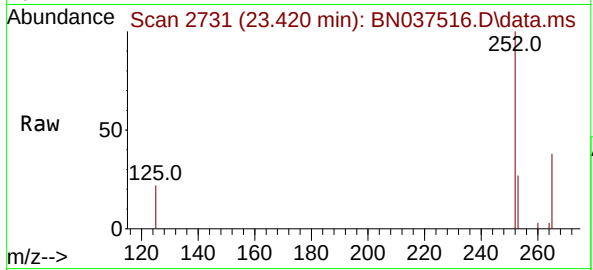
Acq: 16 Jul 2025 13:29

Instrument :

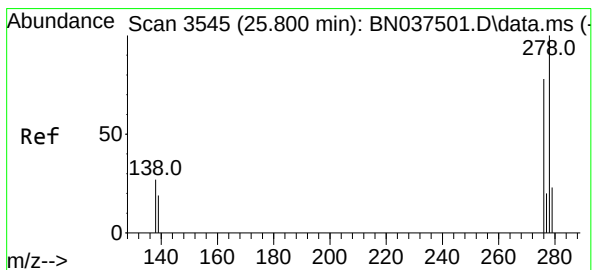
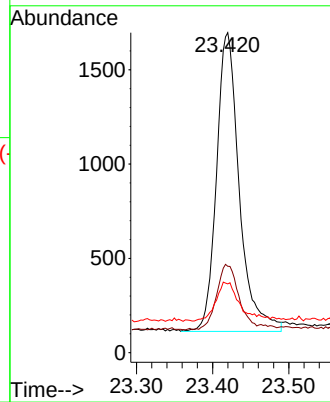
BNA_N

ClientSampleId :

PB168868BS



Tgt Ion:	252	Resp:	3289
Ion Ratio	Lower	Upper	
252	100		
253	27.0	19.9	29.9
125	21.5	15.2	22.8



#40

Dibenzo(a,h)anthracene

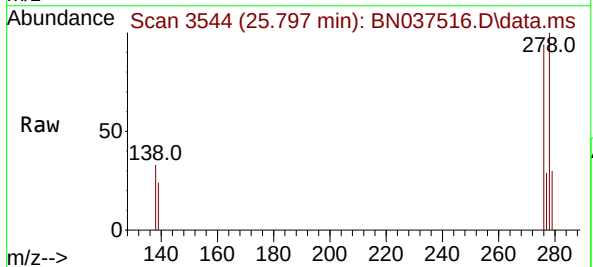
Concen: 0.369 ng

RT: 25.797 min Scan# 3544

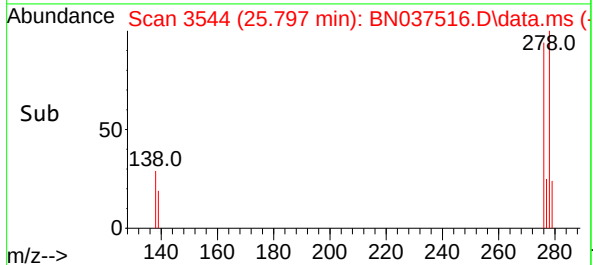
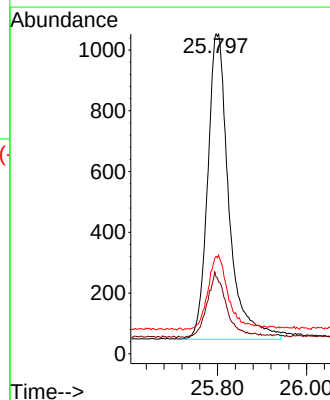
Delta R.T. -0.003 min

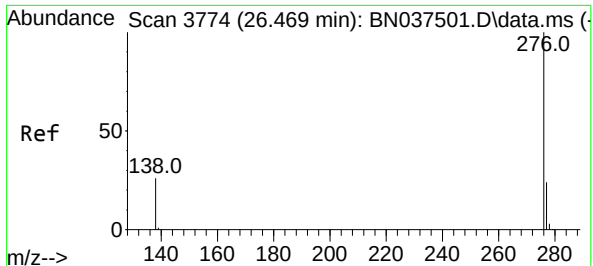
Lab File: BN037516.D

Acq: 16 Jul 2025 13:29



Tgt Ion:	278	Resp:	3329
Ion Ratio	Lower	Upper	
278	100		
139	24.0	17.5	26.3
279	30.5	21.3	31.9





#41

Benzo(g,h,i)perylene

Concen: 0.378 ng

RT: 26.466 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037516.D

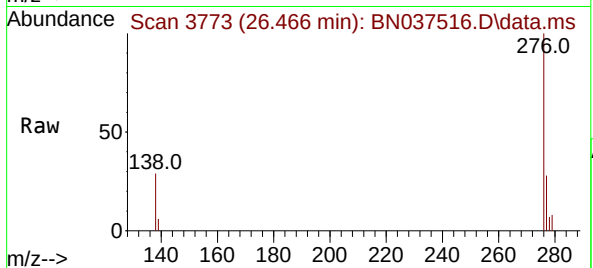
Acq: 16 Jul 2025 13:29

Instrument :

BNA_N

ClientSampleId :

PB168868BS



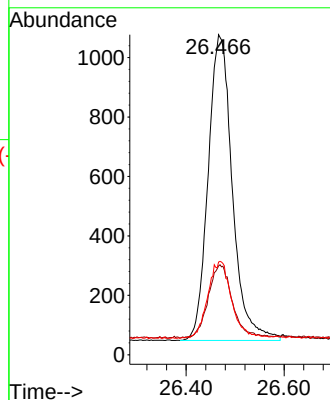
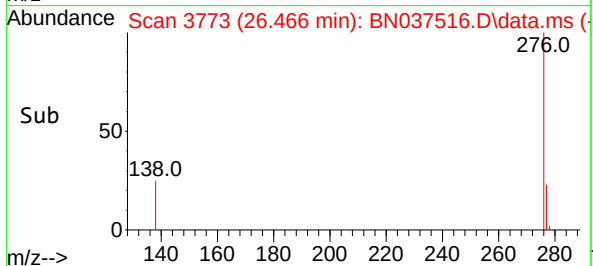
Tgt Ion:276 Resp: 3528

Ion Ratio Lower Upper

276 100

277 27.8 20.9 31.3

138 29.0 22.6 33.8



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168868BSD	SDG No.:	Q2604
Lab Sample ID:	PB168868BSD	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
BN037517.D	1	07/15/25 11:40	07/16/25 14:06	PB168868

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	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.724				
1146-65-2	Naphthalene-d8	4750	10.509				
15067-26-2	Acenaphthene-d10	2350	14.356				
1517-22-2	Phenanthrene-d10	4400	17.099				
1719-03-5	Chrysene-d12	3150	21.277				
1520-96-3	Perylene-d12	2640	23.519				

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\BN071625\
 Data File : BN037517.D
 Acq On : 16 Jul 2025 14:06
 Operator : RC/JU
 Sample : PB168868BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168868BSD

Quant Time: Jul 16 14:27:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 16 02:38:11 2025
 Response via : Initial Calibration

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

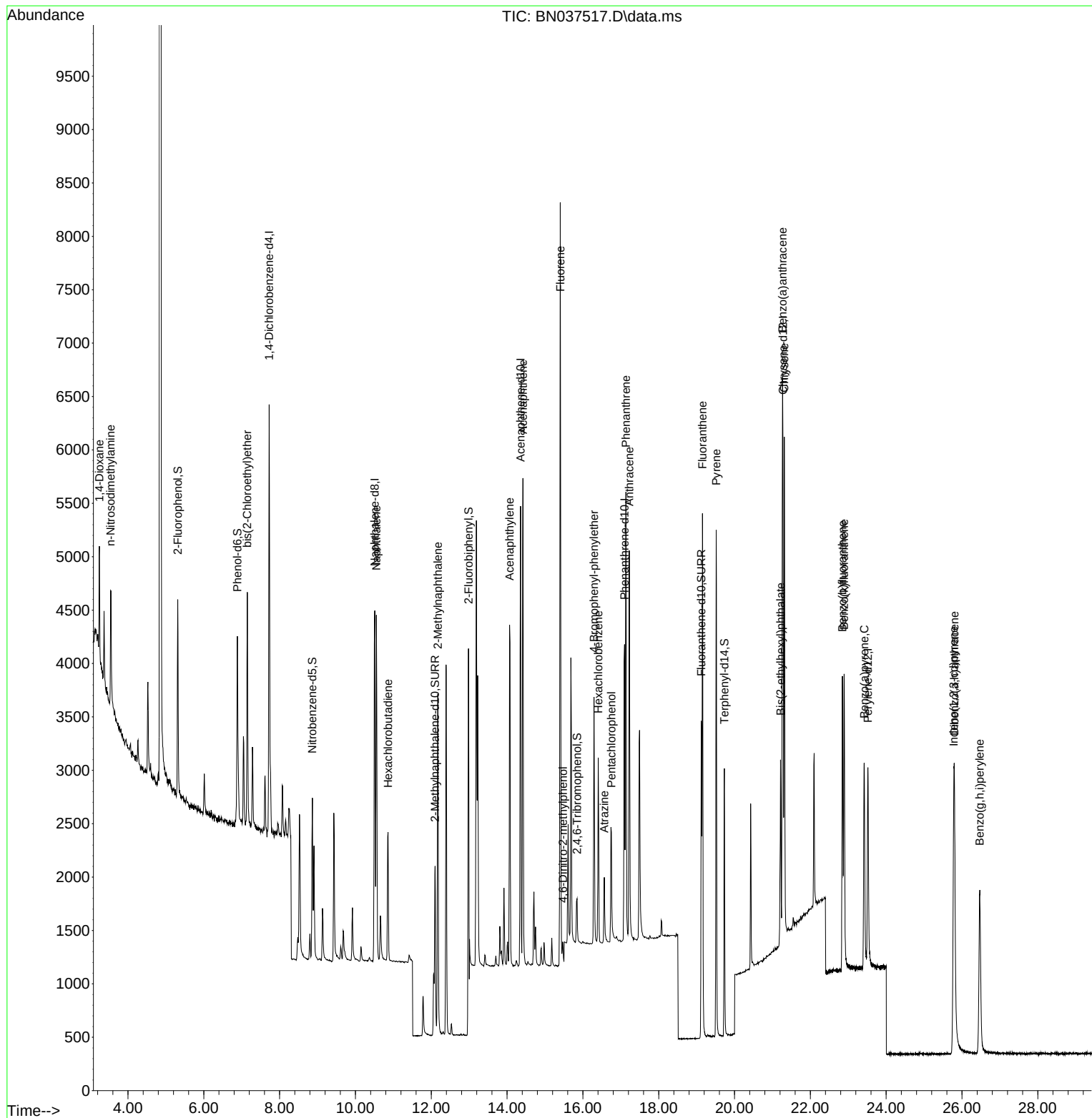
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1974	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4747	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2348	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	4399	0.400	ng	0.00
29) Chrysene-d12	21.277	240	3154	0.400	ng	# 0.00
35) Perylene-d12	23.519	264	2636	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1515	0.310	ng	0.00
5) Phenol-d6	6.887	99	1728	0.282	ng	0.00
8) Nitrobenzene-d5	8.865	82	1222	0.344	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	2422	0.356	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	297	0.257	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	4813	0.394	ng	0.00
27) Fluoranthene-d10	19.122	212	3529	0.303	ng	0.00
31) Terphenyl-d14	19.731	244	2567	0.379	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	549	0.289	ng	# 68
3) n-Nitrosodimethylamine	3.543	42	857	0.359	ng	# 83
6) bis(2-Chloroethyl)ether	7.147	93	1684	0.330	ng	98
9) Naphthalene	10.552	128	4278	0.338	ng	99
10) Hexachlorobutadiene	10.861	225	1104	0.395	ng	# 98
12) 2-Methylnaphthalene	12.172	142	2451	0.294	ng	97
16) Acenaphthylene	14.067	152	3930	0.374	ng	99
17) Acenaphthene	14.420	154	2399	0.335	ng	98
18) Fluorene	15.403	166	3024	0.328	ng	98
20) 4,6-Dinitro-2-methylph...	15.478	198	144	0.334	ng	# 80
21) 4-Bromophenyl-phenylether	16.292	248	930	0.330	ng	97
22) Hexachlorobenzene	16.404	284	1329	0.365	ng	98
23) Atrazine	16.565	200	591	0.301	ng	93
24) Pentachlorophenol	16.751	266	689	0.422	ng	100
25) Phenanthrene	17.136	178	4491	0.341	ng	100
26) Anthracene	17.223	178	4056	0.337	ng	99
28) Fluoranthene	19.155	202	4501	0.296	ng	98
30) Pyrene	19.517	202	4423	0.348	ng	100
32) Benzo(a)anthracene	21.268	228	3769	0.341	ng	98
33) Chrysene	21.313	228	3921	0.341	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	1419	0.286	ng	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	3895	0.355	ng	97
37) Benzo(b)fluoranthene	22.847	252	3569	0.357	ng	95
38) Benzo(k)fluoranthene	22.891	252	3650	0.354	ng	95
39) Benzo(a)pyrene	23.420	252	3047	0.365	ng	# 92
40) Dibenzo(a,h)anthracene	25.800	278	3082	0.347	ng	94
41) Benzo(g,h,i)perylene	26.469	276	3297	0.358	ng	97

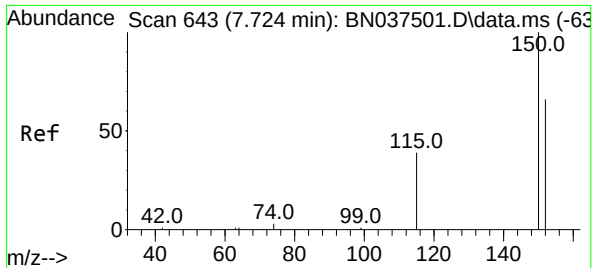
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071625\
Data File : BN037517.D
Acq On : 16 Jul 2025 14:06
Operator : RC/JU
Sample : PB168868BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168868BSD

Quant Time: Jul 16 14:27:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 16 02:38:11 2025
Response via : Initial Calibration

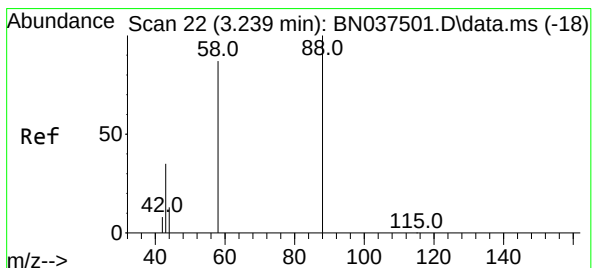
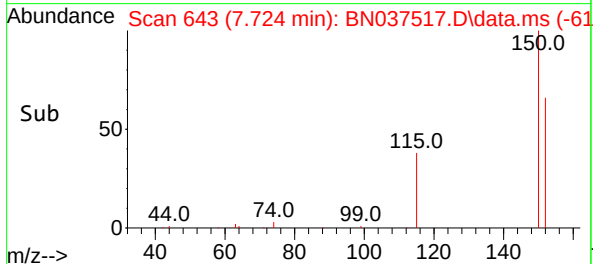
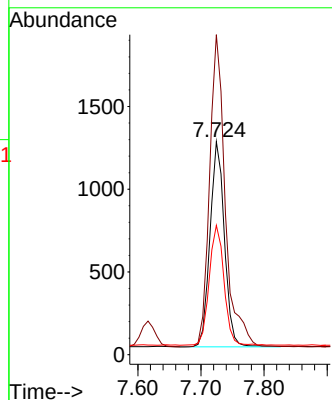
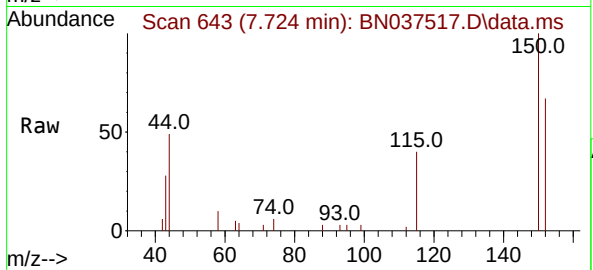




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

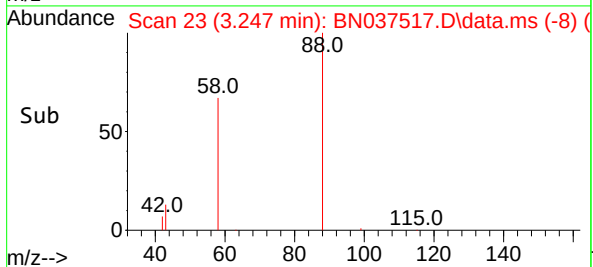
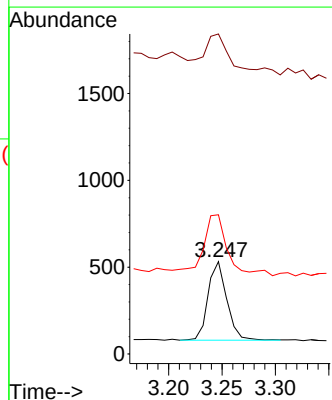
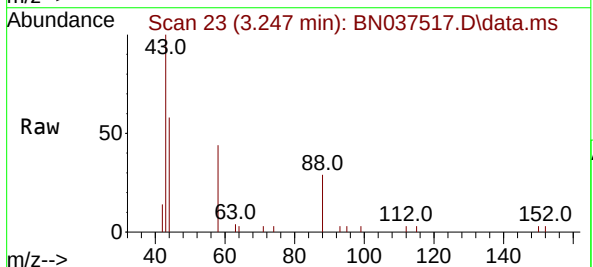
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

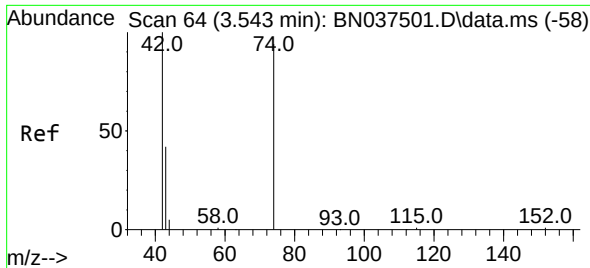
Tgt Ion:152 Resp: 1974
Ion Ratio Lower Upper
152 100
150 150.3 119.8 179.8
115 60.7 49.1 73.7



#2
1,4-Dioxane
Concen: 0.289 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion: 88 Resp: 549
Ion Ratio Lower Upper
88 100
43 80.1 27.5 41.3#
58 88.3 62.7 94.1

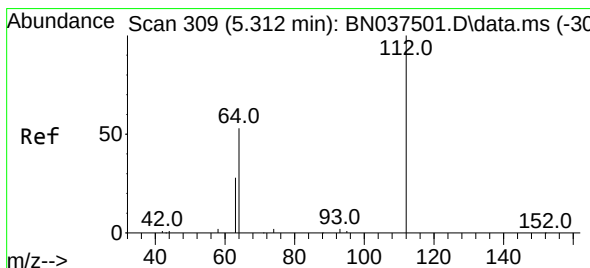
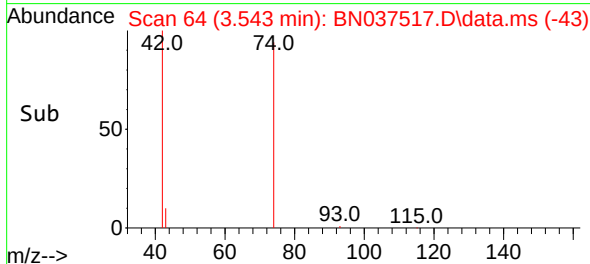
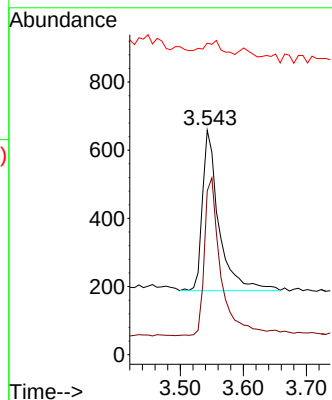
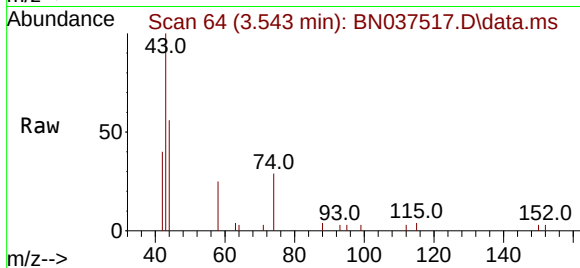




#3
n-Nitrosodimethylamine
Concen: 0.359 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

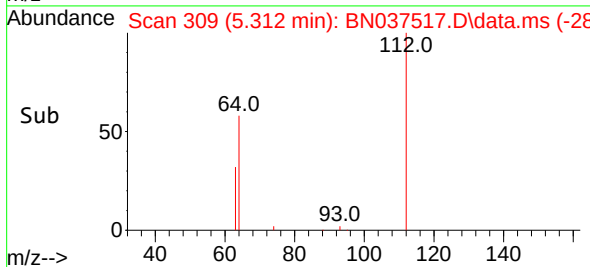
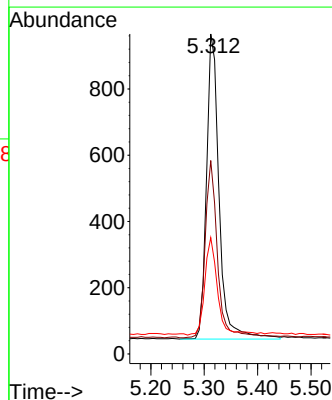
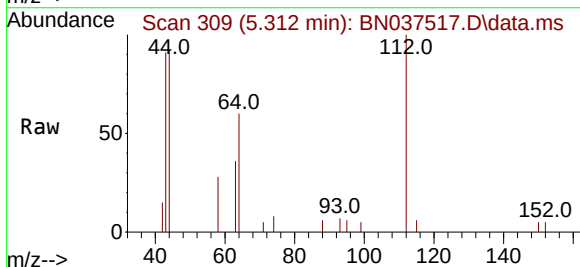
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

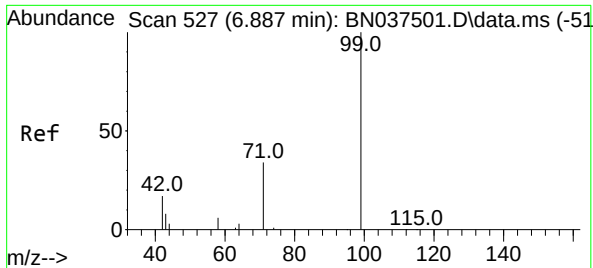
Tgt Ion: 42 Resp: 857
Ion Ratio Lower Upper
42 100
74 97.0 91.8 137.6
44 8.8 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.310 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion: 112 Resp: 1515
Ion Ratio Lower Upper
112 100
64 57.3 45.1 67.7
63 32.5 23.8 35.8

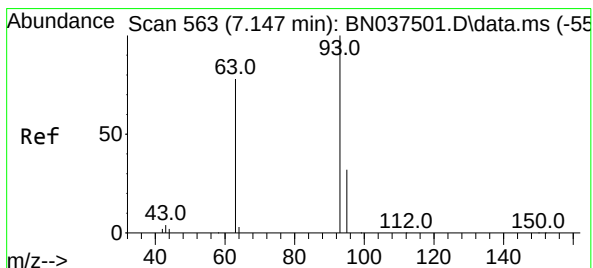
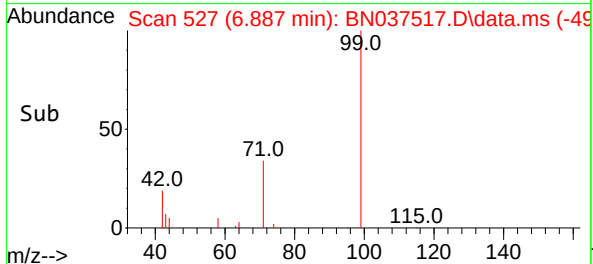
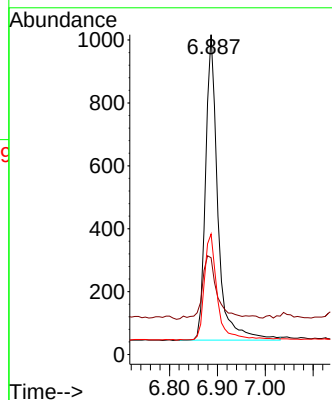
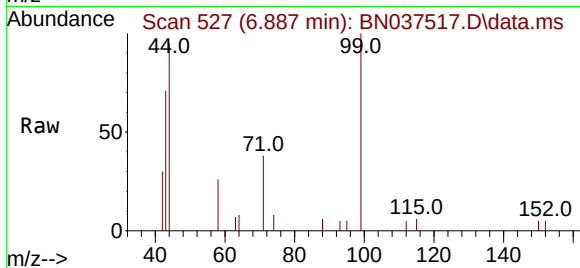




#5
Phenol-d6
Concen: 0.282 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

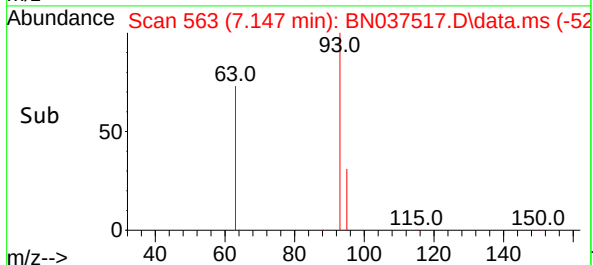
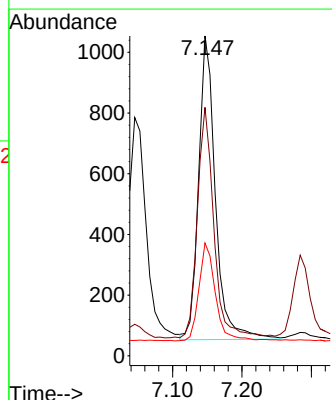
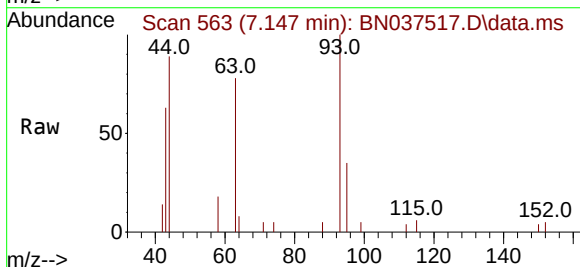
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

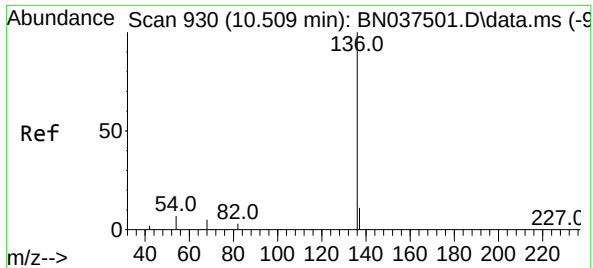
Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.2	17.1	25.7
71	36.6	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.330 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion	Ratio	Lower	Upper
93	100		
63	74.3	58.2	87.4
95	32.3	25.3	37.9

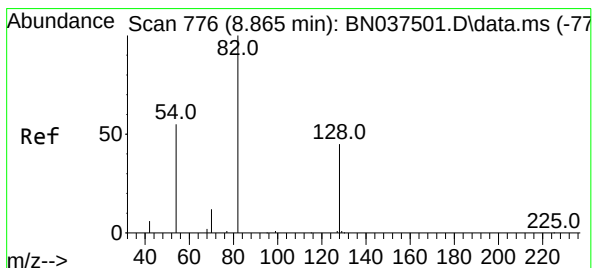
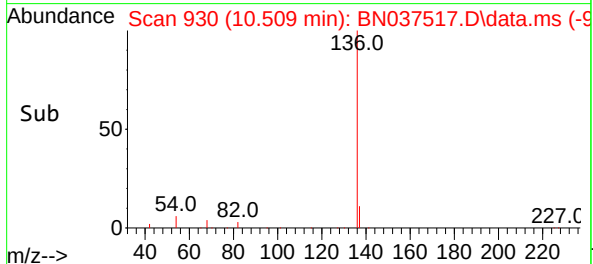
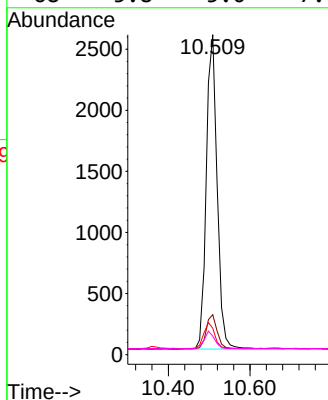
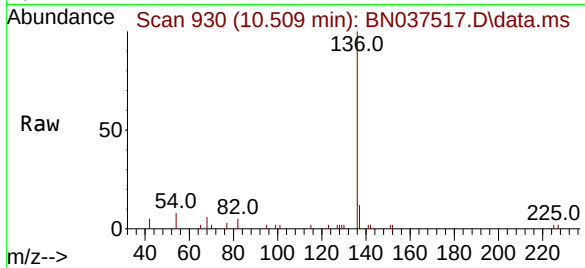




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

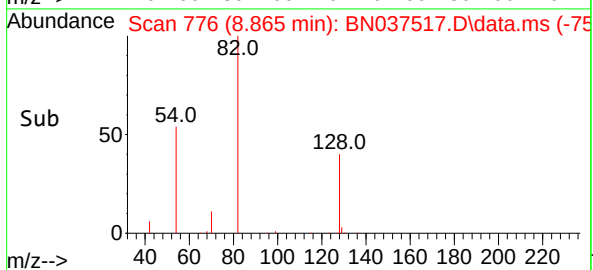
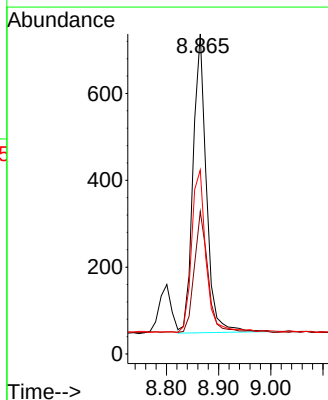
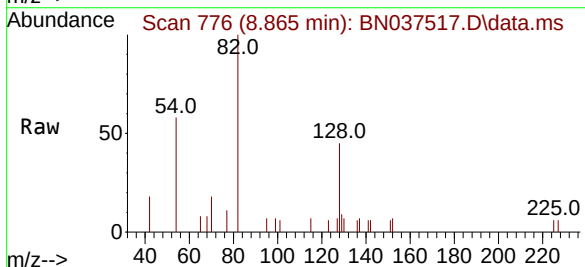
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

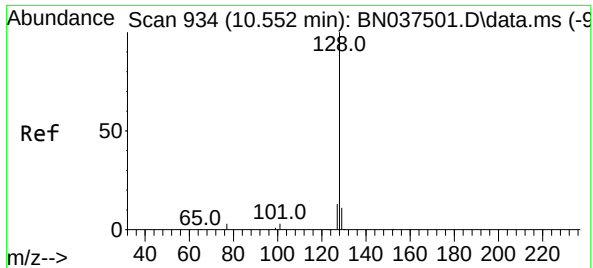
Tgt Ion:	136	Resp:	4747
Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.8	14.8
54	8.2	6.6	9.8
68	5.8	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.344 ng
RT: 8.865 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion:	82	Resp:	1222
Ion	Ratio	Lower	Upper
82	100		
128	44.5	37.5	56.3
54	57.5	45.3	67.9

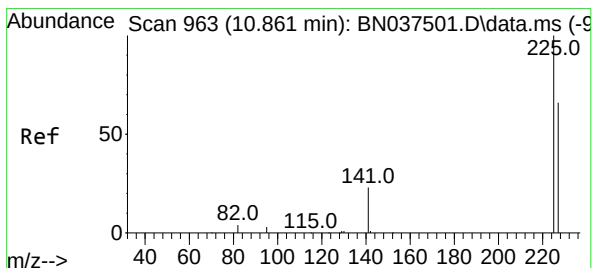
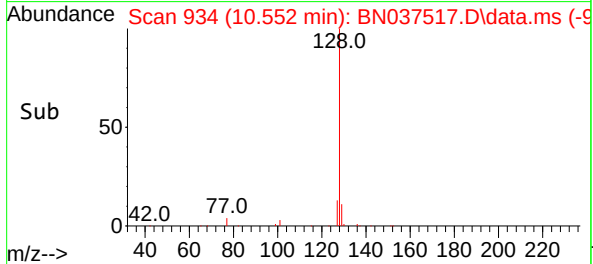
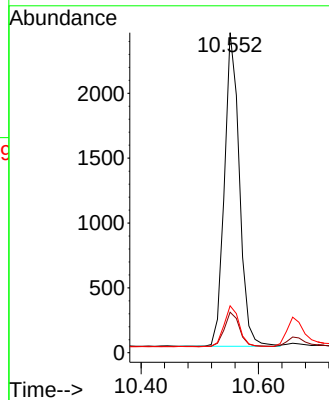
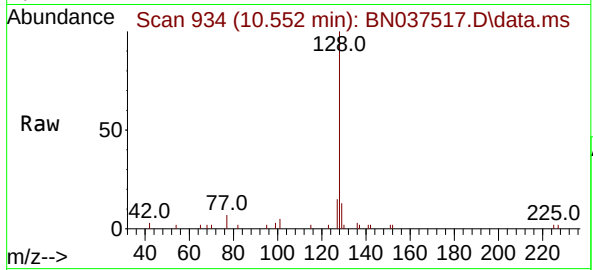




#9
Naphthalene
Concen: 0.338 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

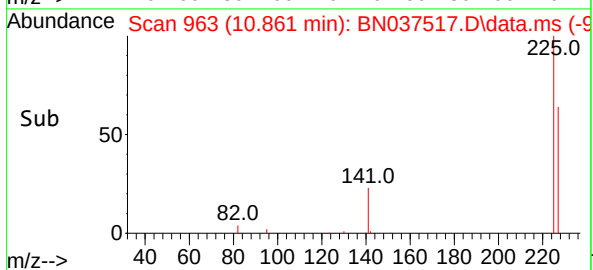
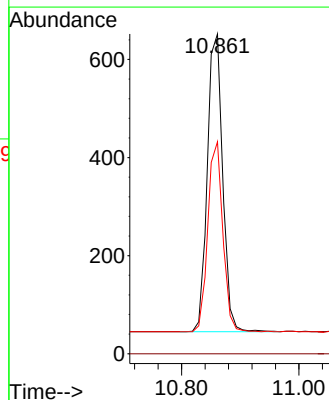
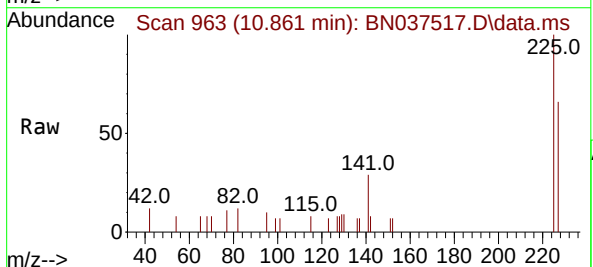
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

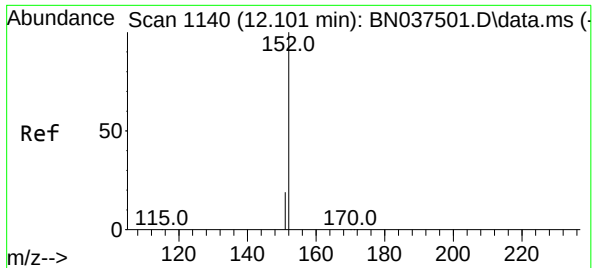
Tgt Ion:	128	Resp:	4278
Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.7	14.5
127	14.7	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.395 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion:	225	Resp:	1104
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.2	51.0	76.4

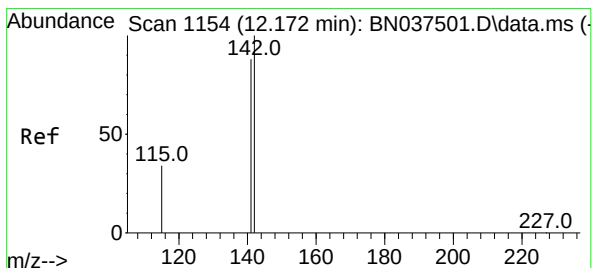
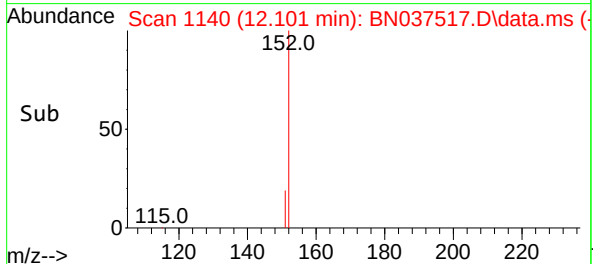
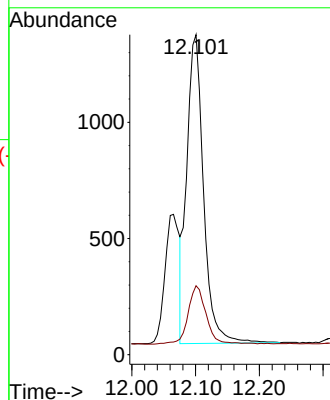
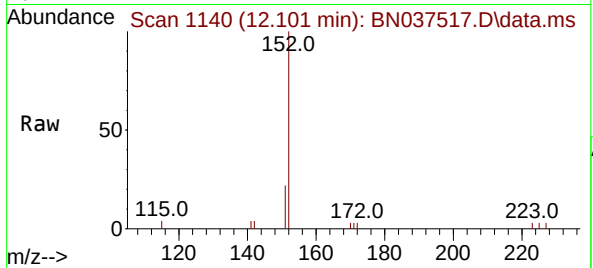




#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

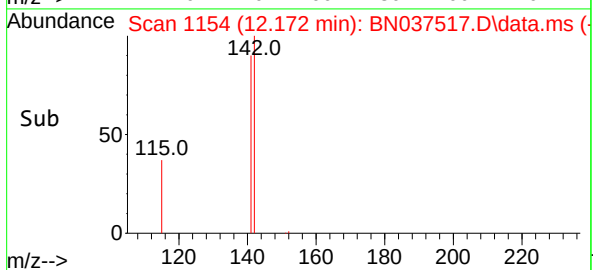
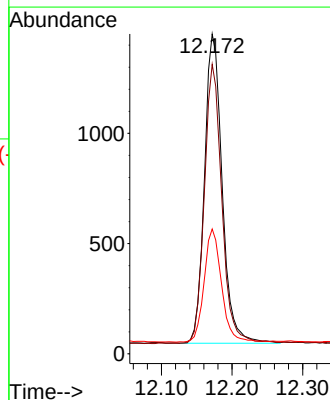
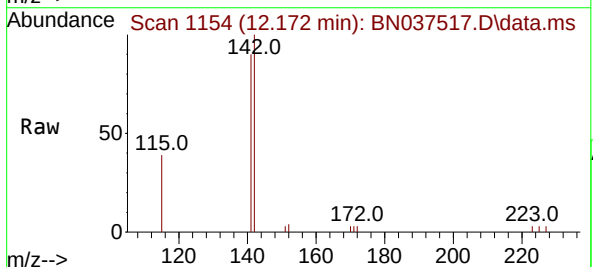
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

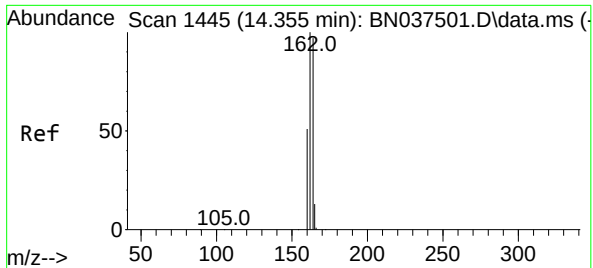
Tgt Ion:152 Resp: 2422
Ion Ratio Lower Upper
152 100
151 20.2 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.294 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion:142 Resp: 2451
Ion Ratio Lower Upper
142 100
141 90.5 71.0 106.4
115 39.0 29.0 43.4

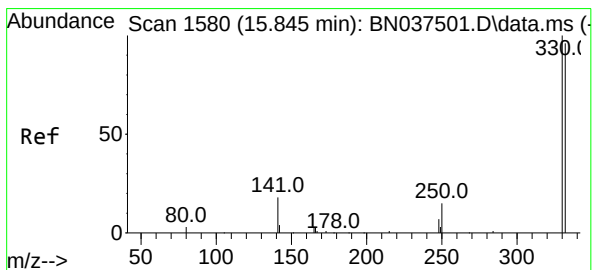
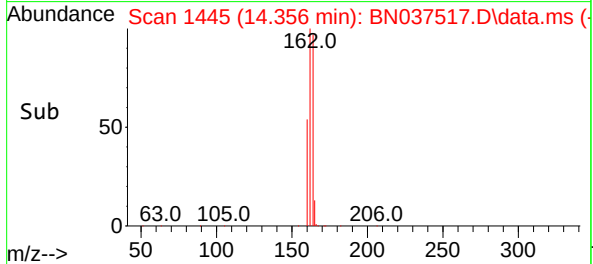
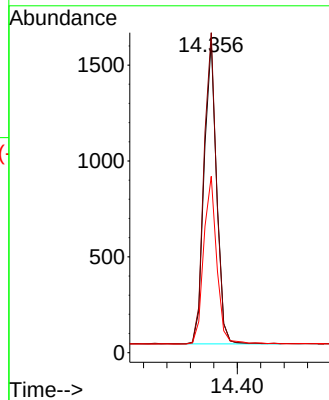
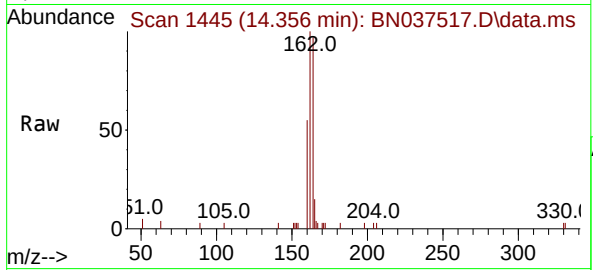




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

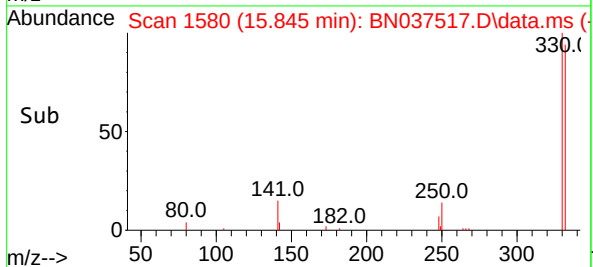
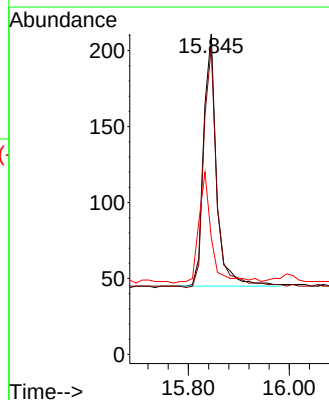
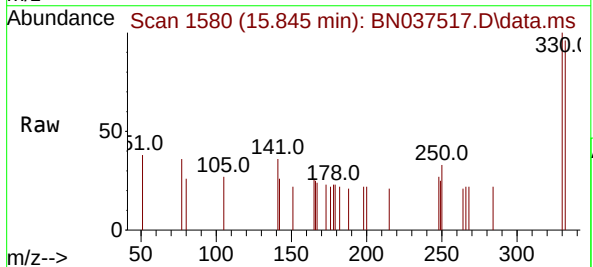
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

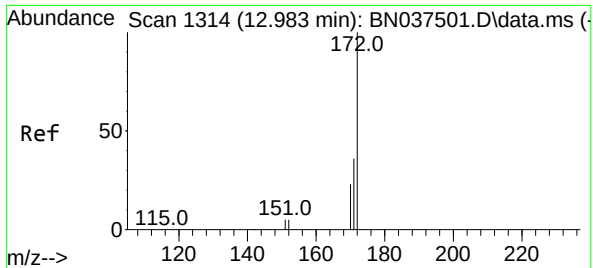
Tgt Ion:164 Resp: 2348
Ion Ratio Lower Upper
164 100
162 102.6 82.0 123.0
160 56.6 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.257 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion:330 Resp: 297
Ion Ratio Lower Upper
330 100
332 98.7 76.1 114.1
141 43.8 33.4 50.0

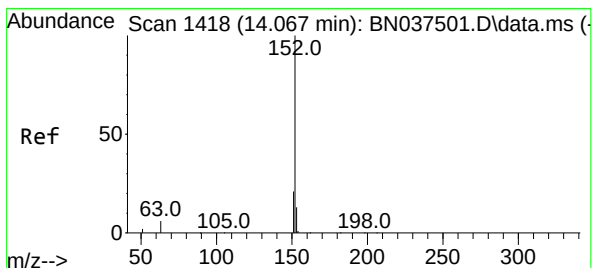
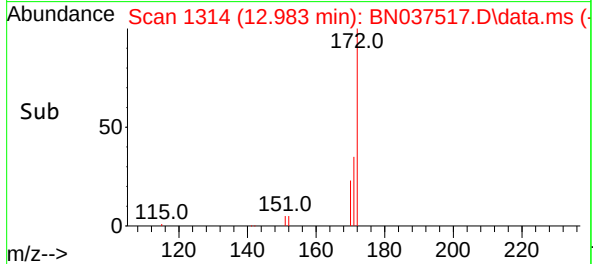
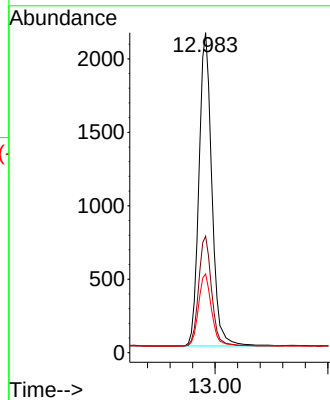
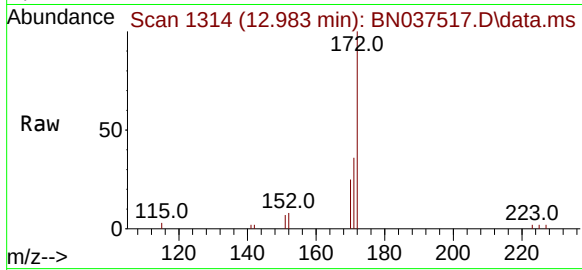




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.983 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

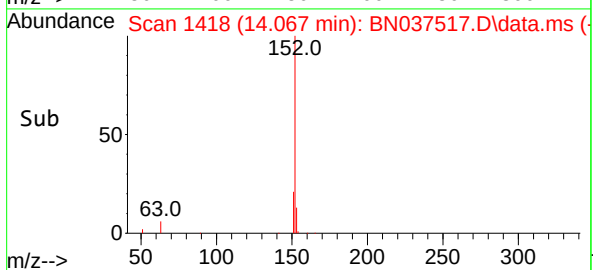
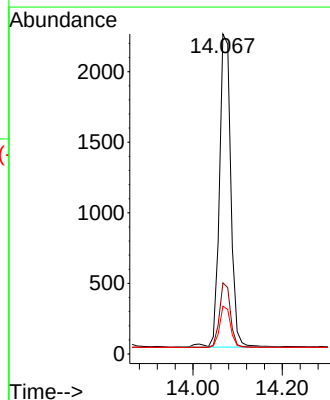
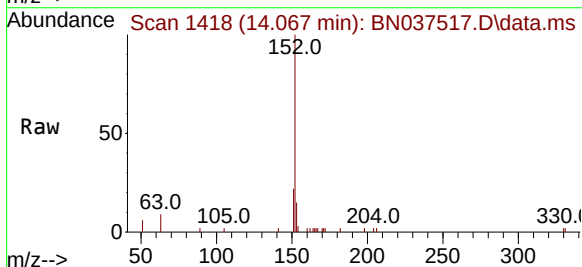
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

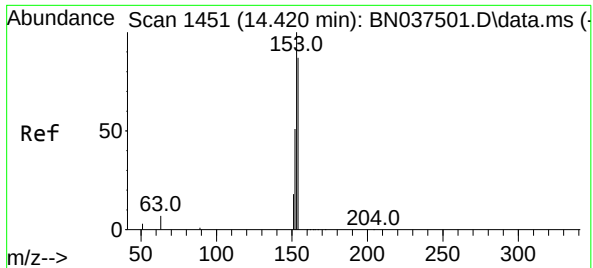
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.2
170	24.6	19.4	29.0



#16
Acenaphthylene
Concen: 0.374 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9
153	13.0	10.7	16.1

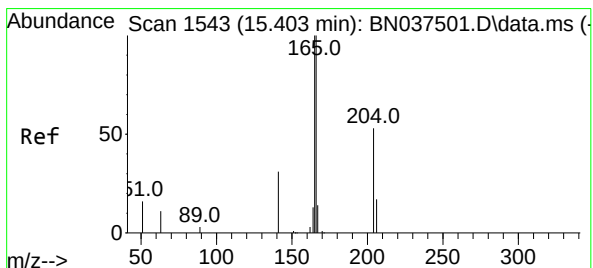
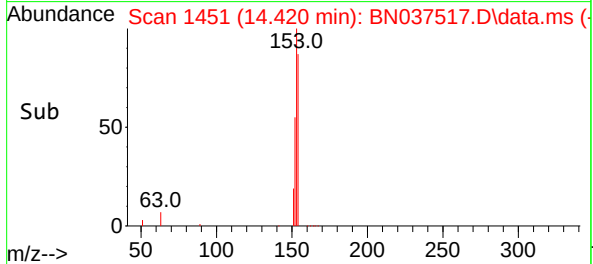
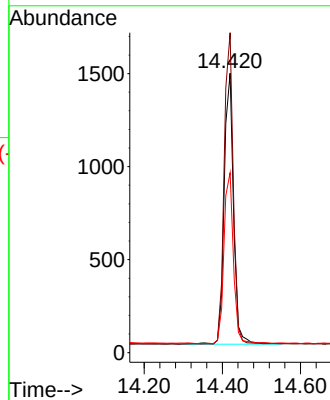
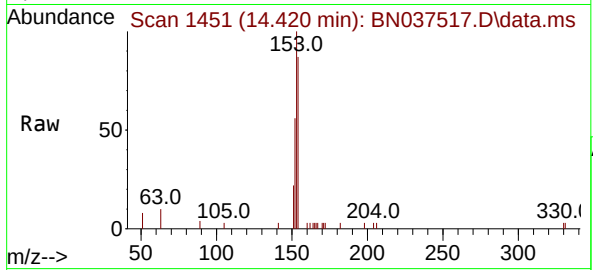




#17
Acenaphthene
Concen: 0.335 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

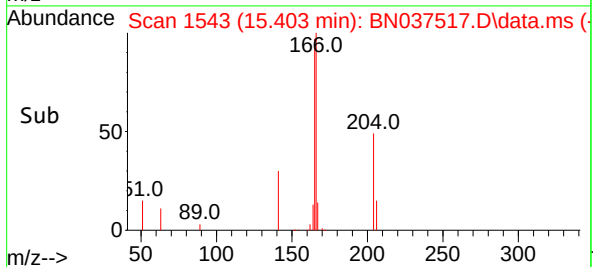
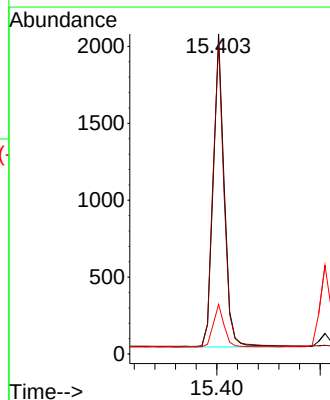
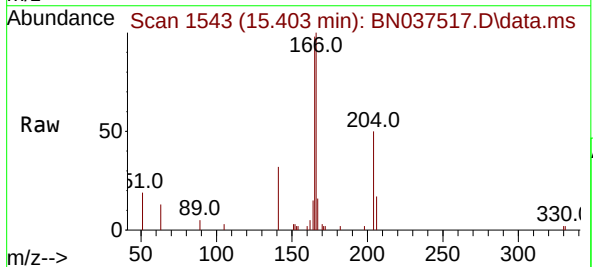
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

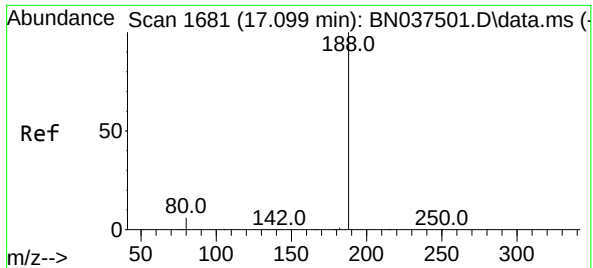
Tgt Ion	154	153	152
Resp:	2399		
Ion Ratio	100	111.3	63.4
Lower		89.2	48.0
Upper		133.8	72.0



#18
Fluorene
Concen: 0.328 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion	166	165	167
Resp:	3024		
Ion Ratio	100	100.2	13.4
Lower		78.1	11.0
Upper		117.1	16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

Instrument :

BNA_N

ClientSampleId :

PB168868BSD

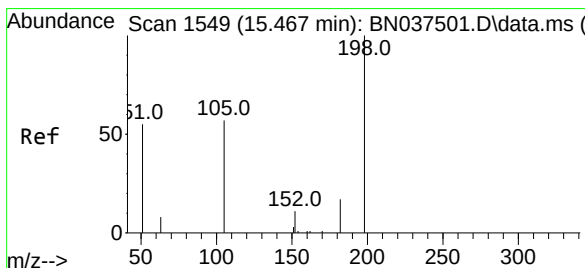
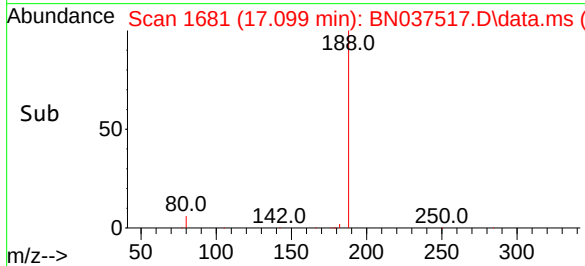
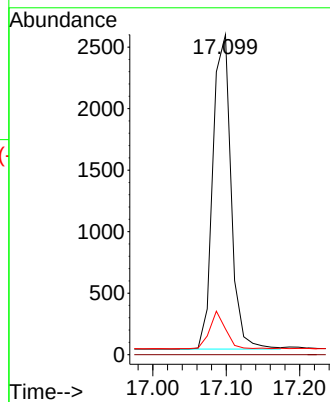
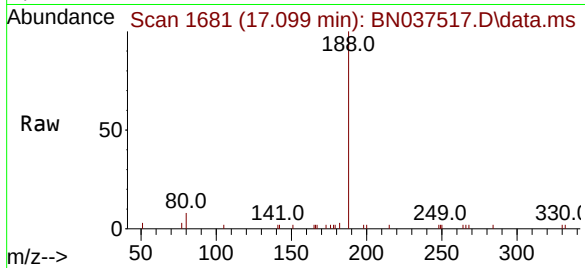
Tgt Ion:188 Resp: 4399

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: 0.334 ng

RT: 15.478 min Scan# 1550

Delta R.T. 0.011 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

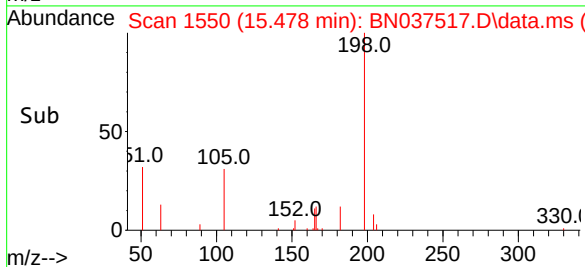
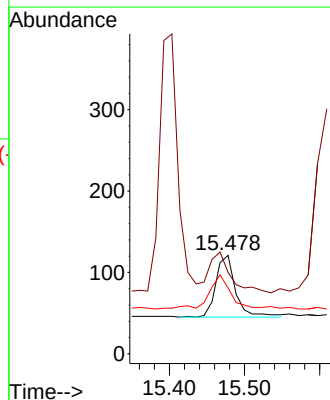
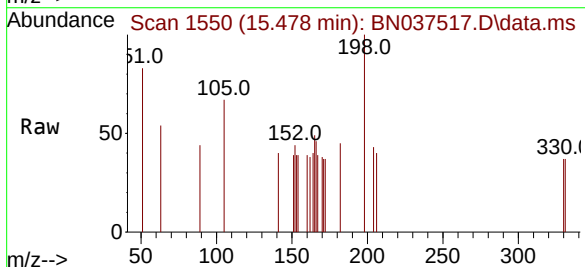
Tgt Ion:198 Resp: 144

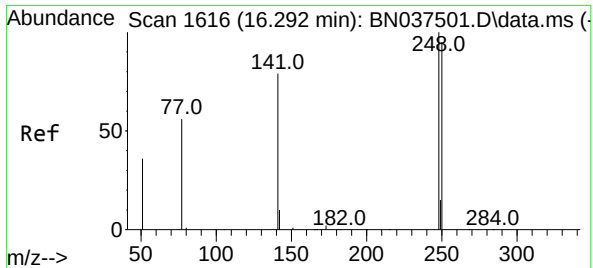
Ion Ratio Lower Upper

198 100

51 82.6 88.5 132.7#

105 66.9 61.2 91.8

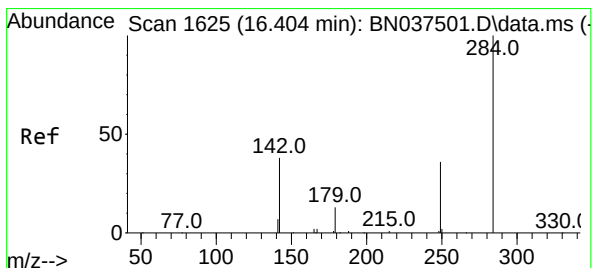
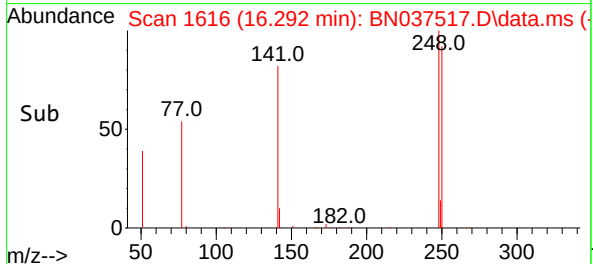
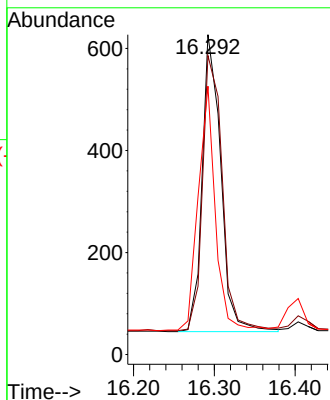
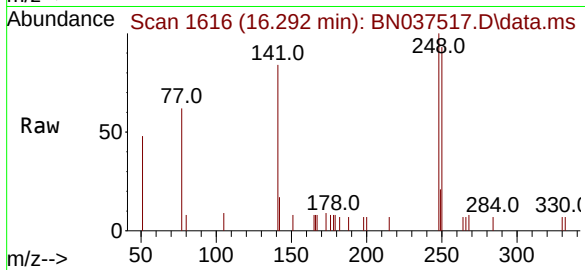




#21
4-Bromophenyl-phenylether
Concen: 0.330 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

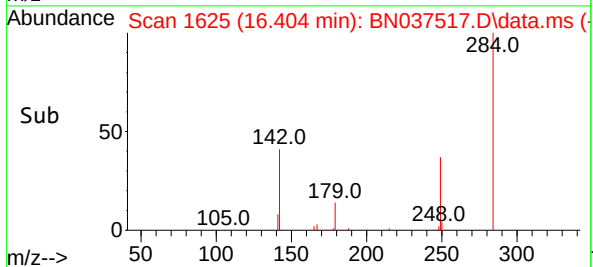
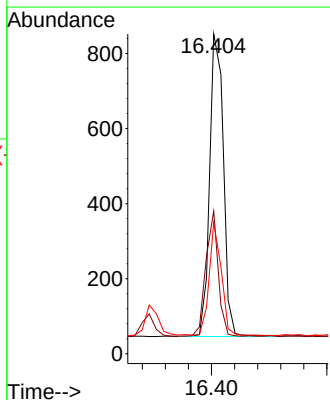
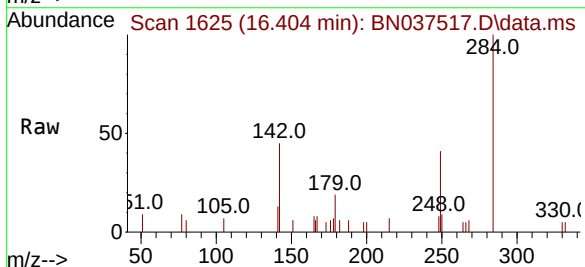
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

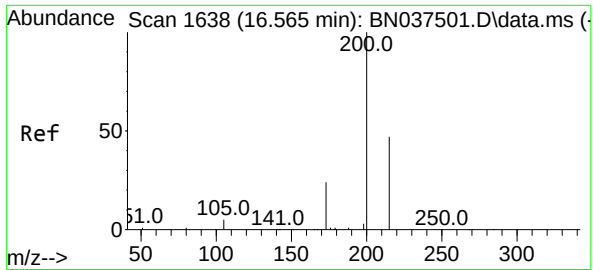
Tgt Ion:248 Resp: 930
Ion Ratio Lower Upper
248 100
250 93.5 76.2 114.2
141 83.9 63.9 95.9



#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion:284 Resp: 1329
Ion Ratio Lower Upper
284 100
142 37.0 28.9 43.3
249 33.0 25.8 38.6





#23

Atrazine

Concen: 0.301 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

Instrument :

BNA_N

ClientSampleId :

PB168868BSD

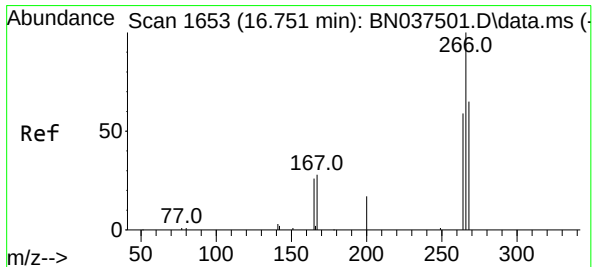
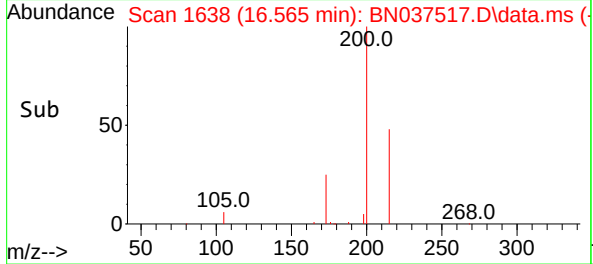
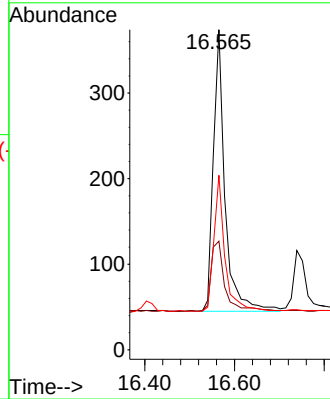
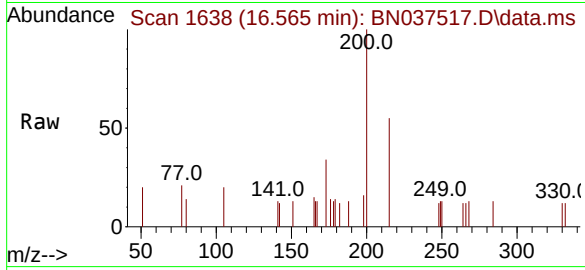
Tgt Ion:200 Resp: 591

Ion Ratio Lower Upper

200 100

173 34.0 23.2 34.8

215 54.5 40.2 60.4



#24

Pentachlorophenol

Concen: 0.422 ng

RT: 16.751 min Scan# 1653

Delta R.T. 0.000 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

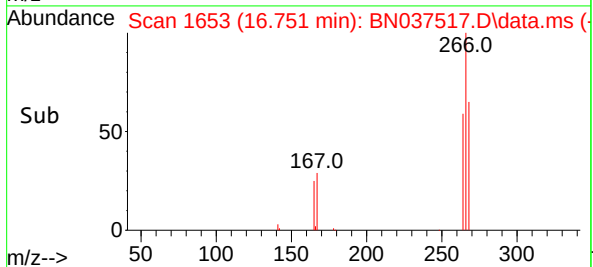
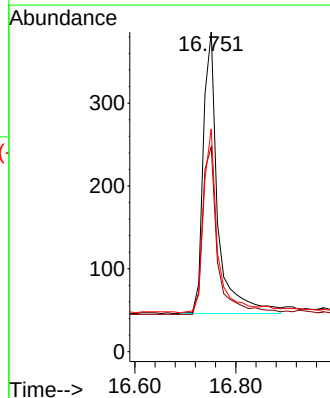
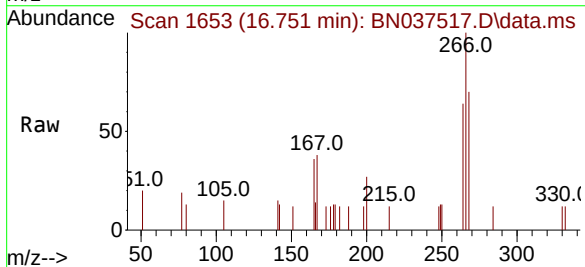
Tgt Ion:266 Resp: 689

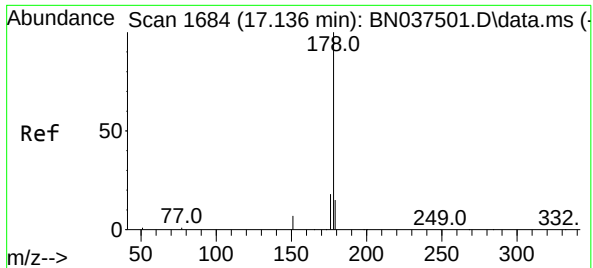
Ion Ratio Lower Upper

266 100

264 61.4 49.3 73.9

268 64.3 51.6 77.4

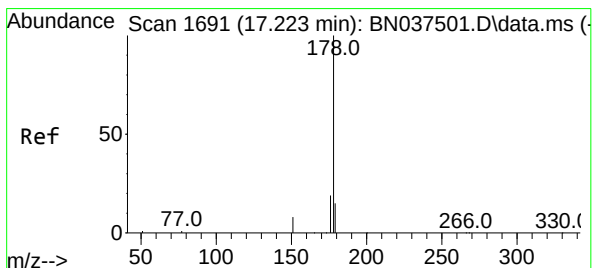
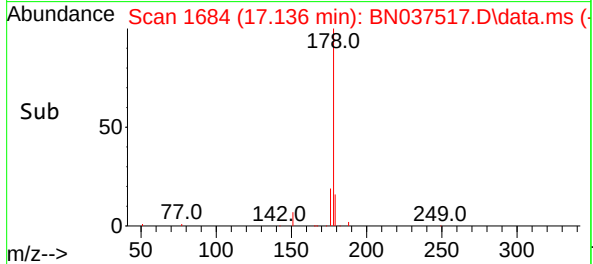
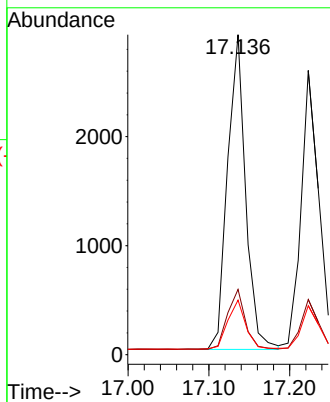
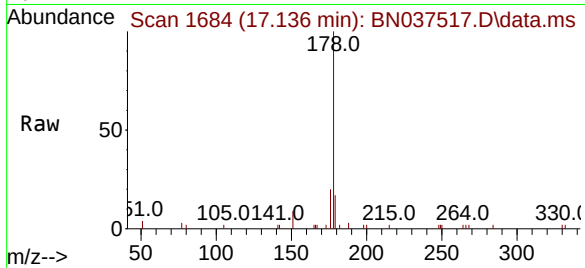




#25
Phenanthrene
Concen: 0.341 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

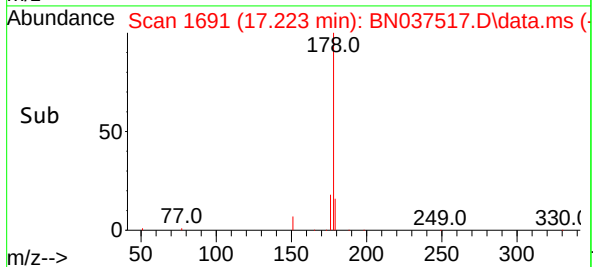
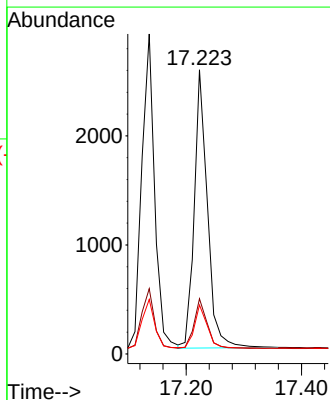
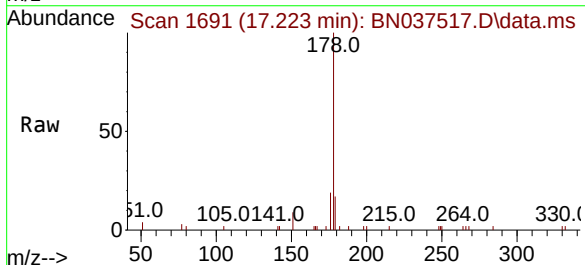
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

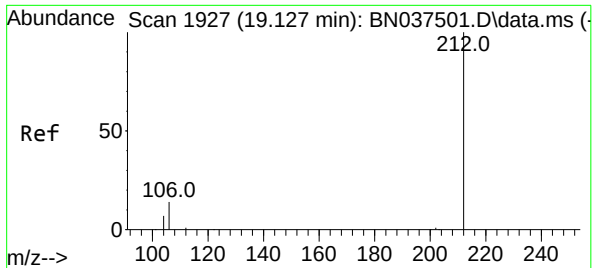
Tgt Ion:178 Resp: 4491
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.5 12.2 18.2



#26
Anthracene
Concen: 0.337 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion:178 Resp: 4056
Ion Ratio Lower Upper
178 100
176 17.9 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.303 ng

RT: 19.122 min Scan# 1926

Delta R.T. -0.005 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

Instrument :

BNA_N

ClientSampleId :

PB168868BSD

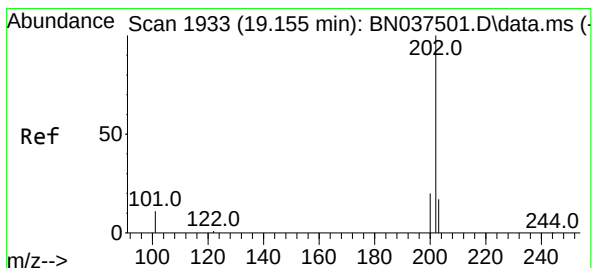
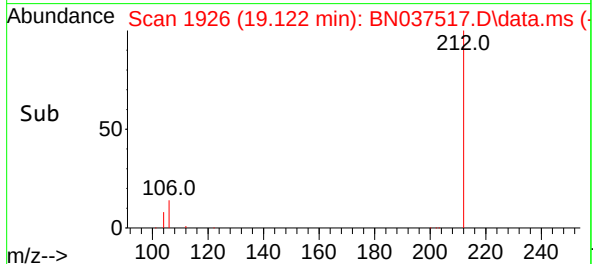
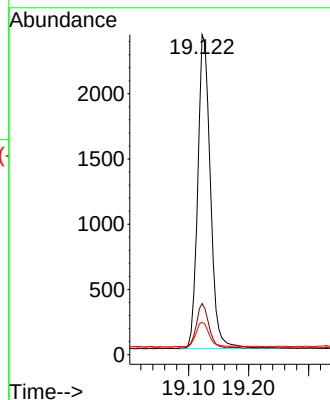
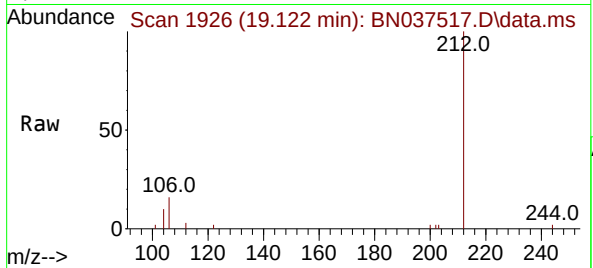
Tgt Ion:212 Resp: 3529

Ion Ratio Lower Upper

212 100

106 14.3 12.2 18.4

104 7.8 6.7 10.1



#28

Fluoranthene

Concen: 0.296 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

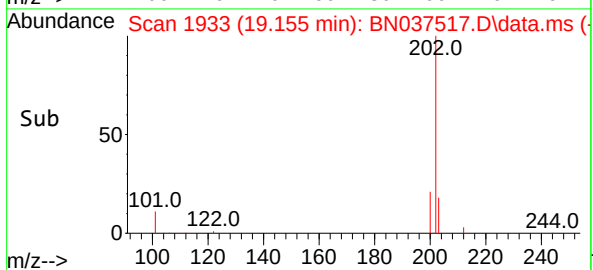
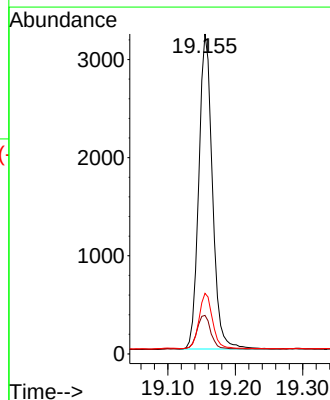
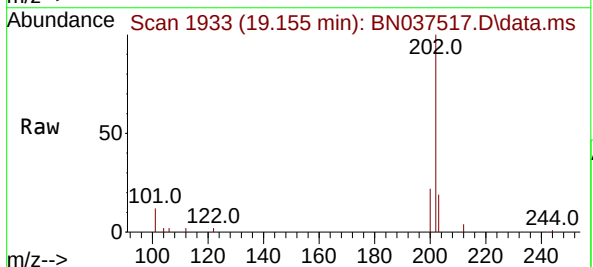
Tgt Ion:202 Resp: 4501

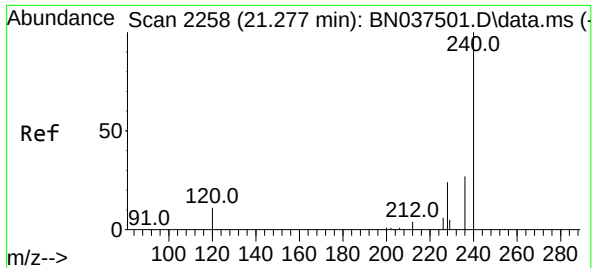
Ion Ratio Lower Upper

202 100

101 10.9 9.8 14.6

203 17.6 13.6 20.4

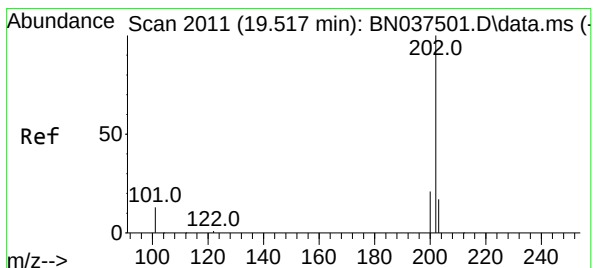
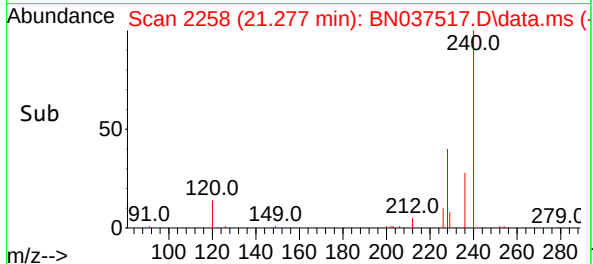
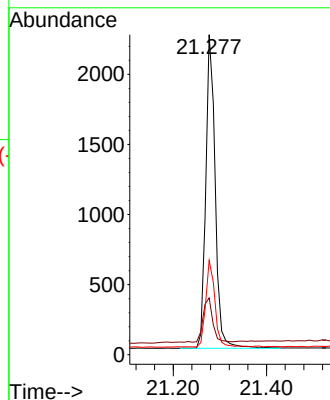
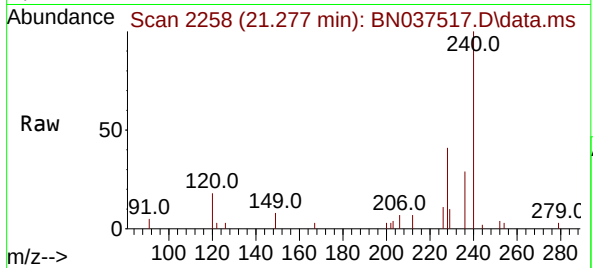




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

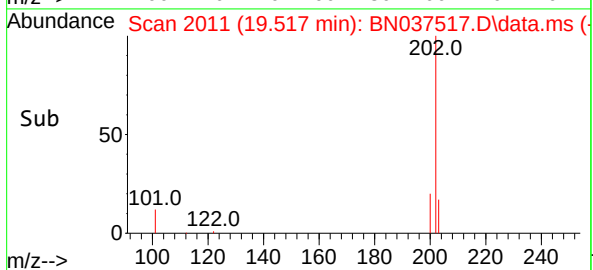
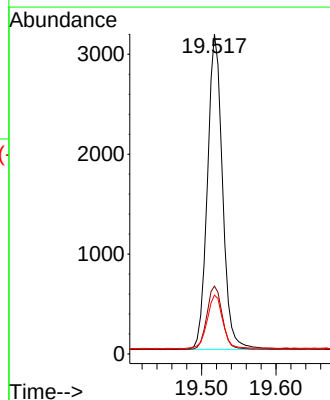
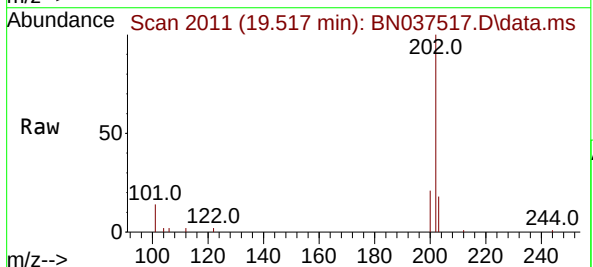
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

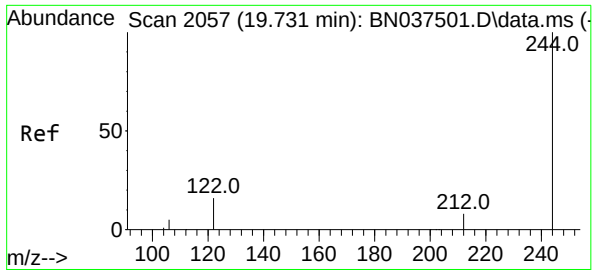
Tgt Ion:240 Resp: 3154
Ion Ratio Lower Upper
240 100
120 17.8 10.7 16.1#
236 29.5 22.6 33.8



#30
Pyrene
Concen: 0.348 ng
RT: 19.517 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion:202 Resp: 4423
Ion Ratio Lower Upper
202 100
200 20.6 16.5 24.7
203 17.6 14.3 21.5

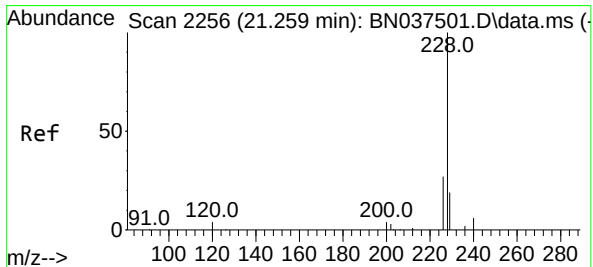
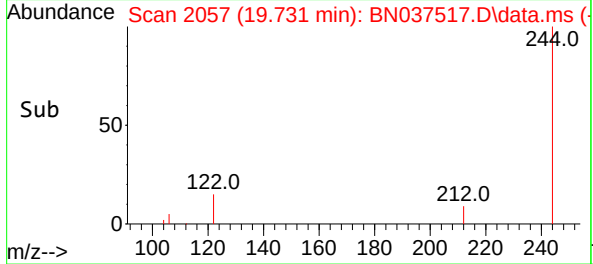
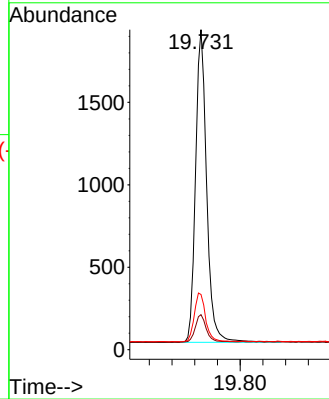
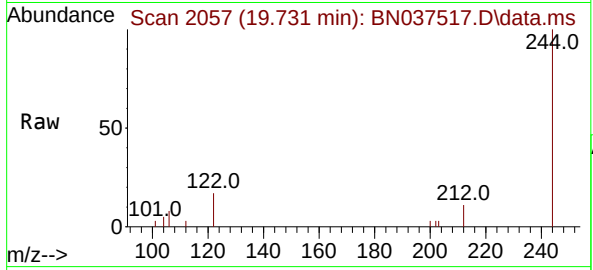




#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

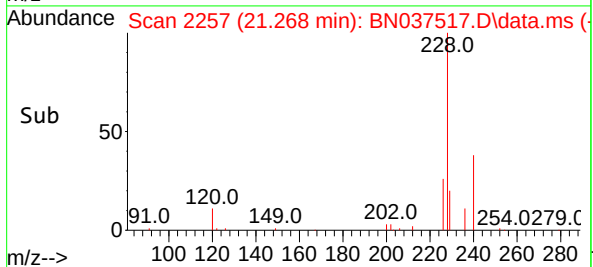
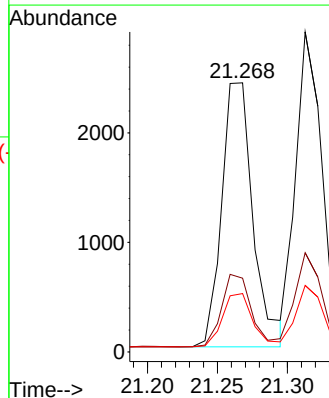
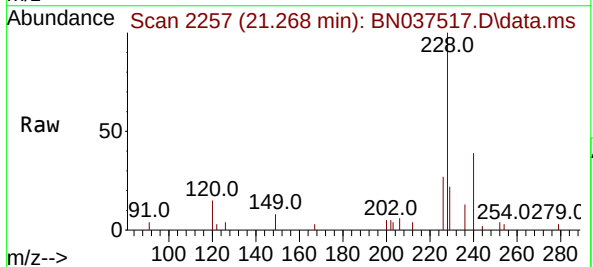
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

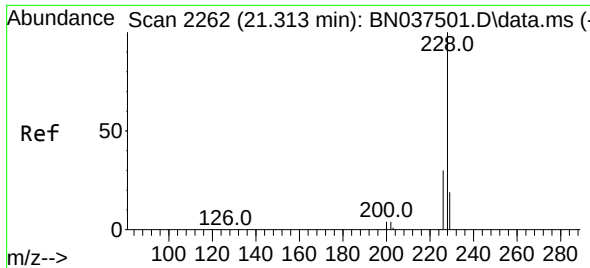
Tgt Ion:244 Resp: 2567
Ion Ratio Lower Upper
244 100
212 11.0 7.4 11.2
122 17.3 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.341 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.009 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion:228 Resp: 3769
Ion Ratio Lower Upper
228 100
226 27.4 21.9 32.9
229 21.7 15.8 23.8





#33

Chrysene

Concen: 0.341 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

Instrument :

BNA_N

ClientSampleId :

PB168868BSD

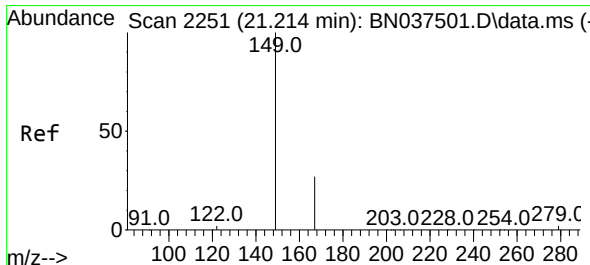
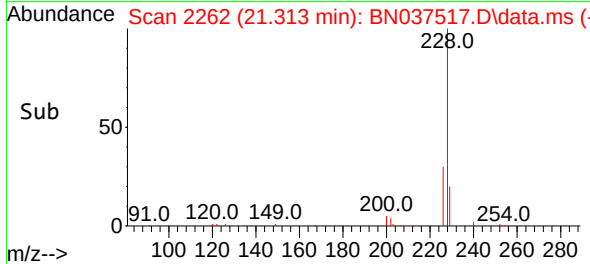
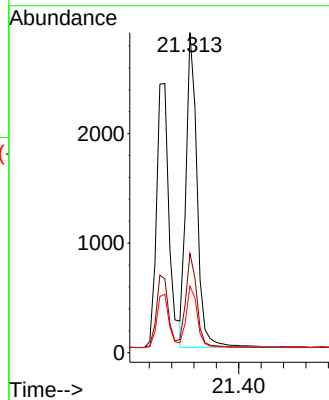
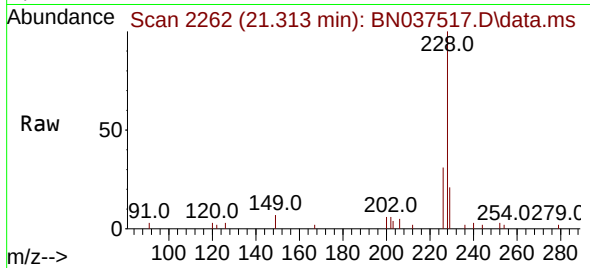
Tgt Ion:228 Resp: 3921

Ion Ratio Lower Upper

228 100

226 31.0 24.2 36.4

229 20.8 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.286 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

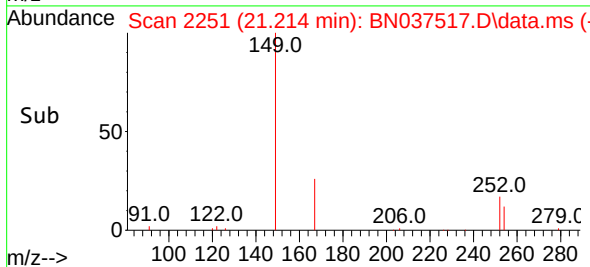
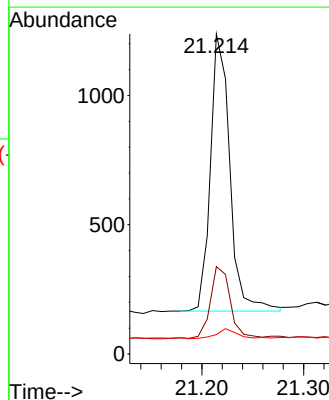
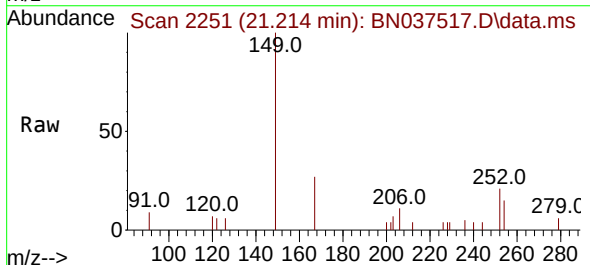
Tgt Ion:149 Resp: 1419

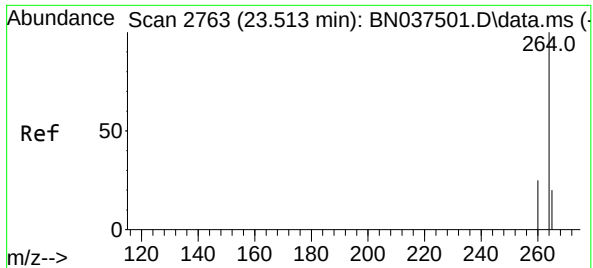
Ion Ratio Lower Upper

149 100

167 27.1 21.8 32.8

279 4.0 3.0 4.4

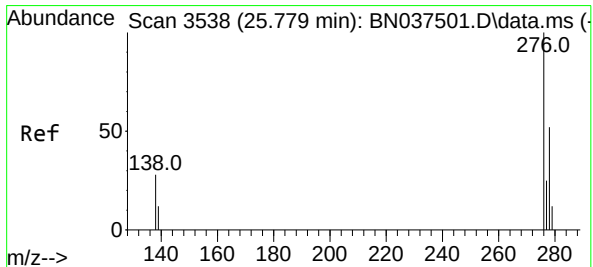
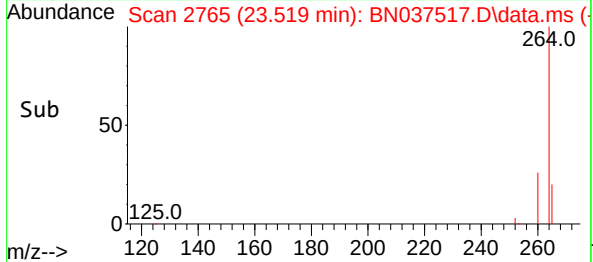
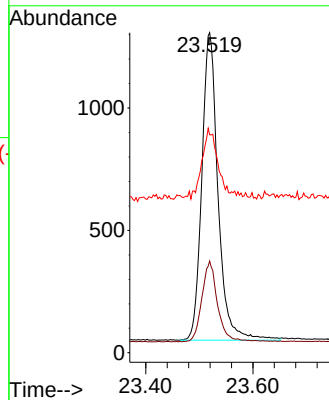
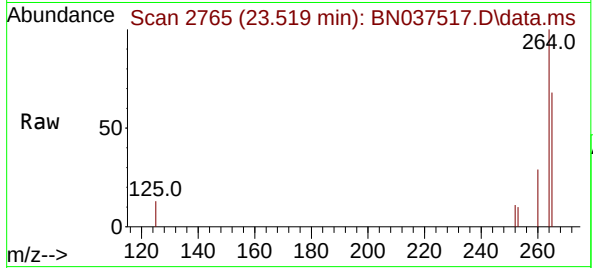




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

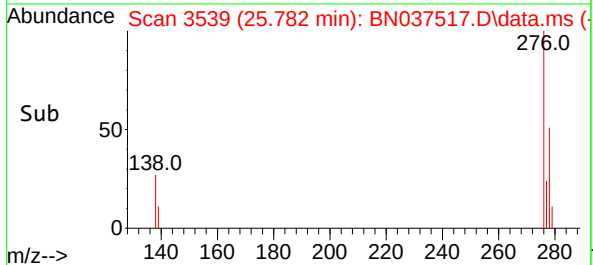
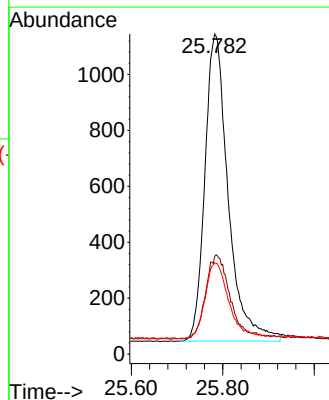
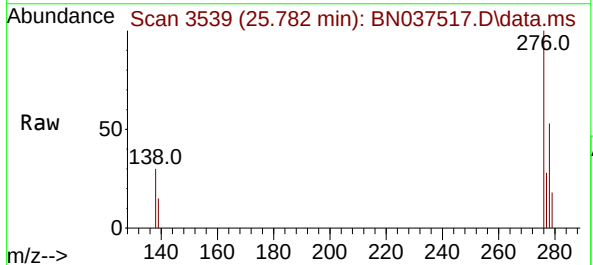
Instrument :
BNA_N
ClientSampleId :
PB168868BSD

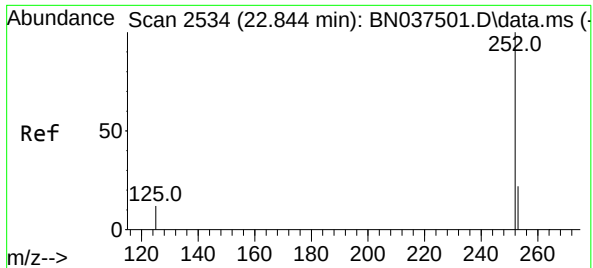
Tgt Ion	264	260	265
Resp:	2636		
Ratio	100	28.7	68.1
Lower		21.2	40.4
Upper		31.8	60.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 ng
RT: 25.782 min Scan# 3539
Delta R.T. 0.003 min
Lab File: BN037517.D
Acq: 16 Jul 2025 14:06

Tgt Ion	276	138	277
Resp:	3895		
Ratio	100	28.0	24.7
Lower		24.0	20.5
Upper		36.0	30.7





#37

Benzo(b)fluoranthene

Concen: 0.357 ng

RT: 22.847 min Scan# 2534

Delta R.T. 0.003 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

Instrument :

BNA_N

ClientSampleId :

PB168868BSD

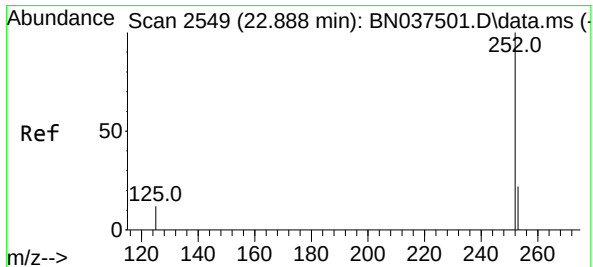
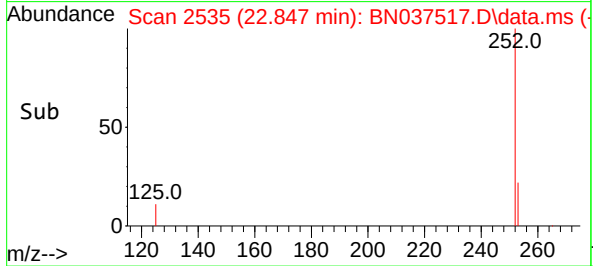
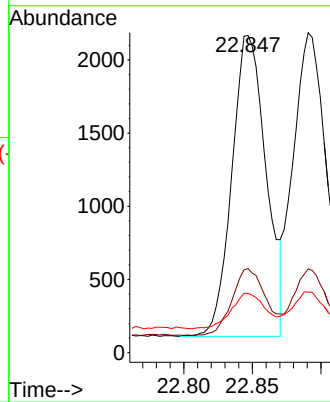
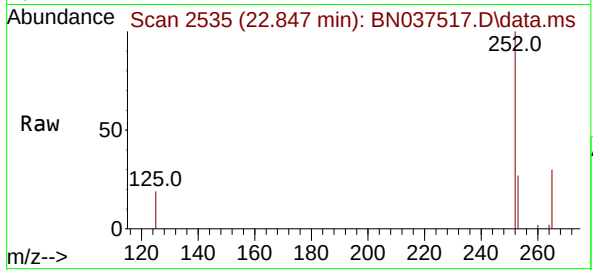
Tgt Ion:252 Resp: 3569

Ion Ratio Lower Upper

252 100

253 26.5 19.5 29.3

125 18.6 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.354 ng

RT: 22.891 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

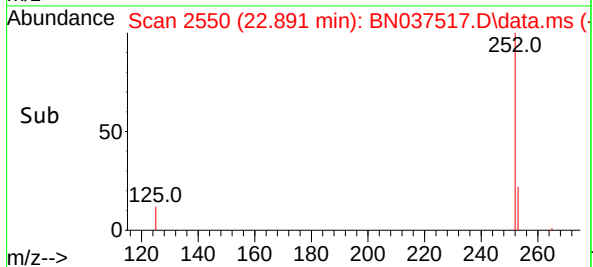
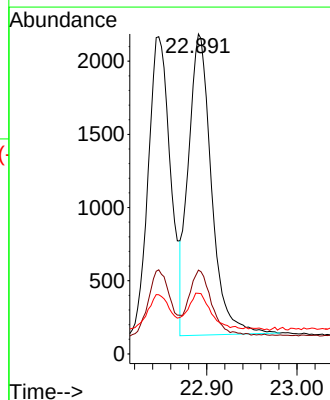
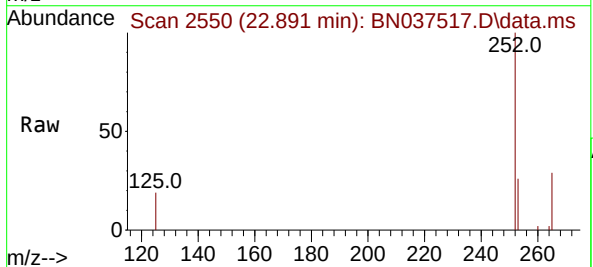
Tgt Ion:252 Resp: 3650

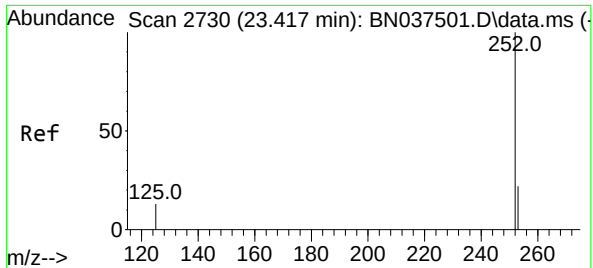
Ion Ratio Lower Upper

252 100

253 26.2 19.5 29.3

125 18.9 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.365 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

Instrument :

BNA_N

ClientSampleId :

PB168868BSD

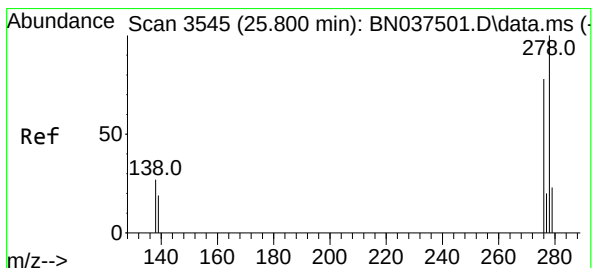
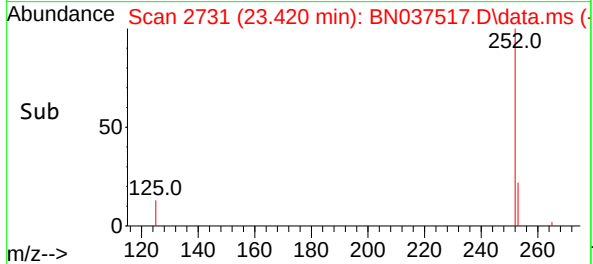
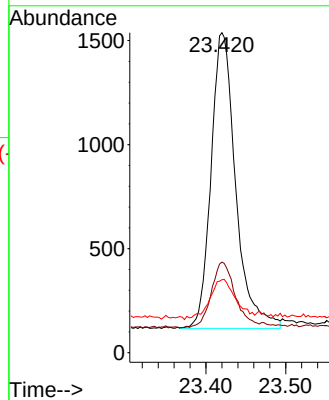
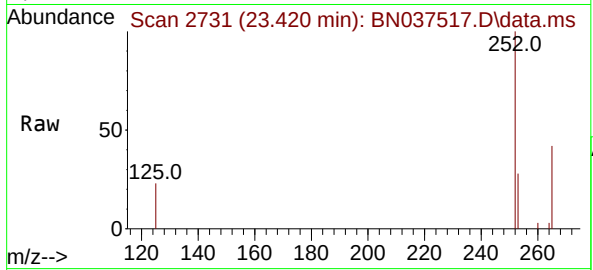
Tgt Ion:252 Resp: 3047

Ion Ratio Lower Upper

252 100

253 28.3 19.9 29.9

125 22.8 15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.347 ng

RT: 25.800 min Scan# 3545

Delta R.T. 0.000 min

Lab File: BN037517.D

Acq: 16 Jul 2025 14:06

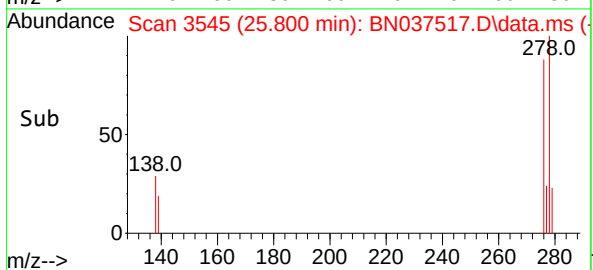
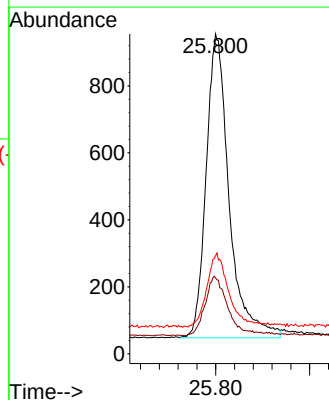
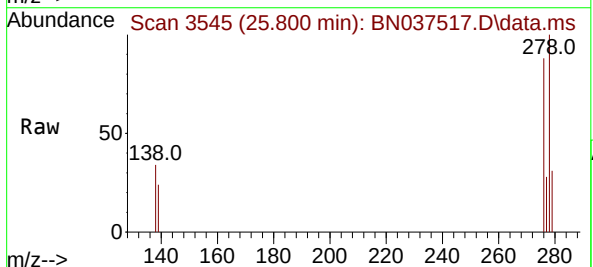
Tgt Ion:278 Resp: 3082

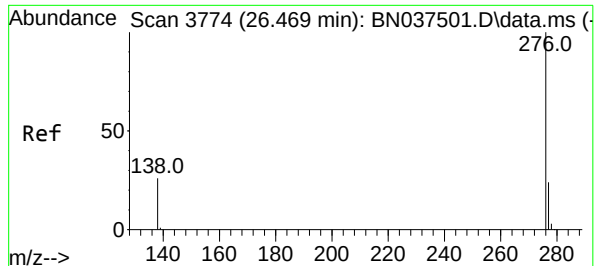
Ion Ratio Lower Upper

278 100

139 23.8 17.5 26.3

279 30.7 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.358 ng

RT: 26.469 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037517.D

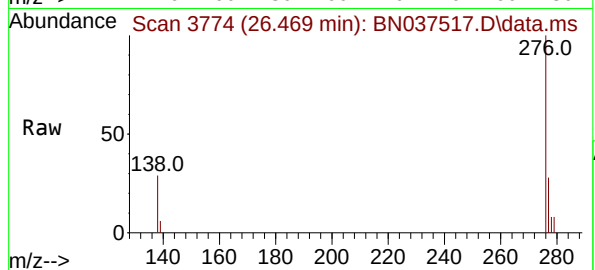
Acq: 16 Jul 2025 14:06

Instrument :

BNA_N

ClientSampleId :

PB168868BSD



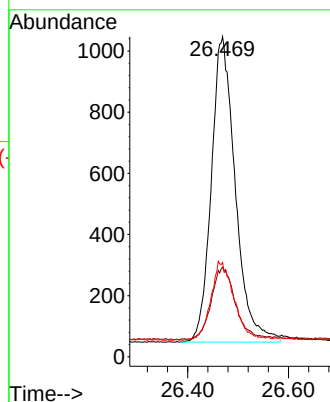
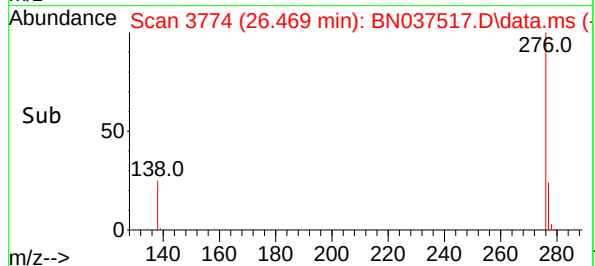
Tgt Ion:276 Resp: 3297

Ion Ratio Lower Upper

276 100

277 28.0 20.9 31.3

138 29.4 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



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

Manual Integration Report

Sequence:

BN071625

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 # BN071625

Review By	Rahul	Review On	7/17/2025 11:20:46 AM
Supervise By	Jagrut	Supervise On	7/17/2025 5:45:55 PM
SubDirectory	BN071625	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	BN037509.D	16 Jul 2025 09:11	RC/JU	Ok
2	SSTDCCC0.4	BN037510.D	16 Jul 2025 09:50	RC/JU	Ok
3	PB168868BL	BN037511.D	16 Jul 2025 10:27	RC/JU	Ok
4	Q2603-01	BN037512.D	16 Jul 2025 11:04	RC/JU	Ok
5	Q2603-02	BN037513.D	16 Jul 2025 11:40	RC/JU	Ok
6	Q2604-01	BN037514.D	16 Jul 2025 12:16	RC/JU	Ok
7	Q2604-02	BN037515.D	16 Jul 2025 12:53	RC/JU	Ok
8	PB168868BS	BN037516.D	16 Jul 2025 13:29	RC/JU	Ok
9	PB168868BSD	BN037517.D	16 Jul 2025 14:06	RC/JU	Ok
10	SSTDCCC0.4	BN037518.D	16 Jul 2025 15:34	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	SSTDICC0.4	SSTDICC0.4	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 # BN071625

Review By	Rahul	Review On	7/17/2025 11:20:46 AM
Supervise By	Jagrut	Supervise On	7/17/2025 5:45:55 PM
SubDirectory	BN071625	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	BN037509.D	16 Jul 2025 09:11		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037510.D	16 Jul 2025 09:50		RC/JU	Ok
3	PB168868BL	PB168868BL	BN037511.D	16 Jul 2025 10:27		RC/JU	Ok
4	Q2603-01	RW7-SP303-Test-2025	BN037512.D	16 Jul 2025 11:04		RC/JU	Ok
5	Q2603-02	RW7-Pond-Test-20250	BN037513.D	16 Jul 2025 11:40		RC/JU	Ok
6	Q2604-01	RW8-SP100-20250711	BN037514.D	16 Jul 2025 12:16		RC/JU	Ok
7	Q2604-02	RW8-SP303-20250711	BN037515.D	16 Jul 2025 12:53		RC/JU	Ok
8	PB168868BS	PB168868BS	BN037516.D	16 Jul 2025 13:29		RC/JU	Ok
9	PB168868BSD	PB168868BSD	BN037517.D	16 Jul 2025 14:06		RC/JU	Ok
10	SSTDCCC0.4	SSTDCCC0.4EC	BN037518.D	16 Jul 2025 15:34		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Matrix : Water

Welgh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 07/15/2025

Extraction Start Time : 11:40

Extraction End Date : 07/15/2025

Extraction End Time : 16:35

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Seperatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	SP6831
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	EP2624
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

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

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

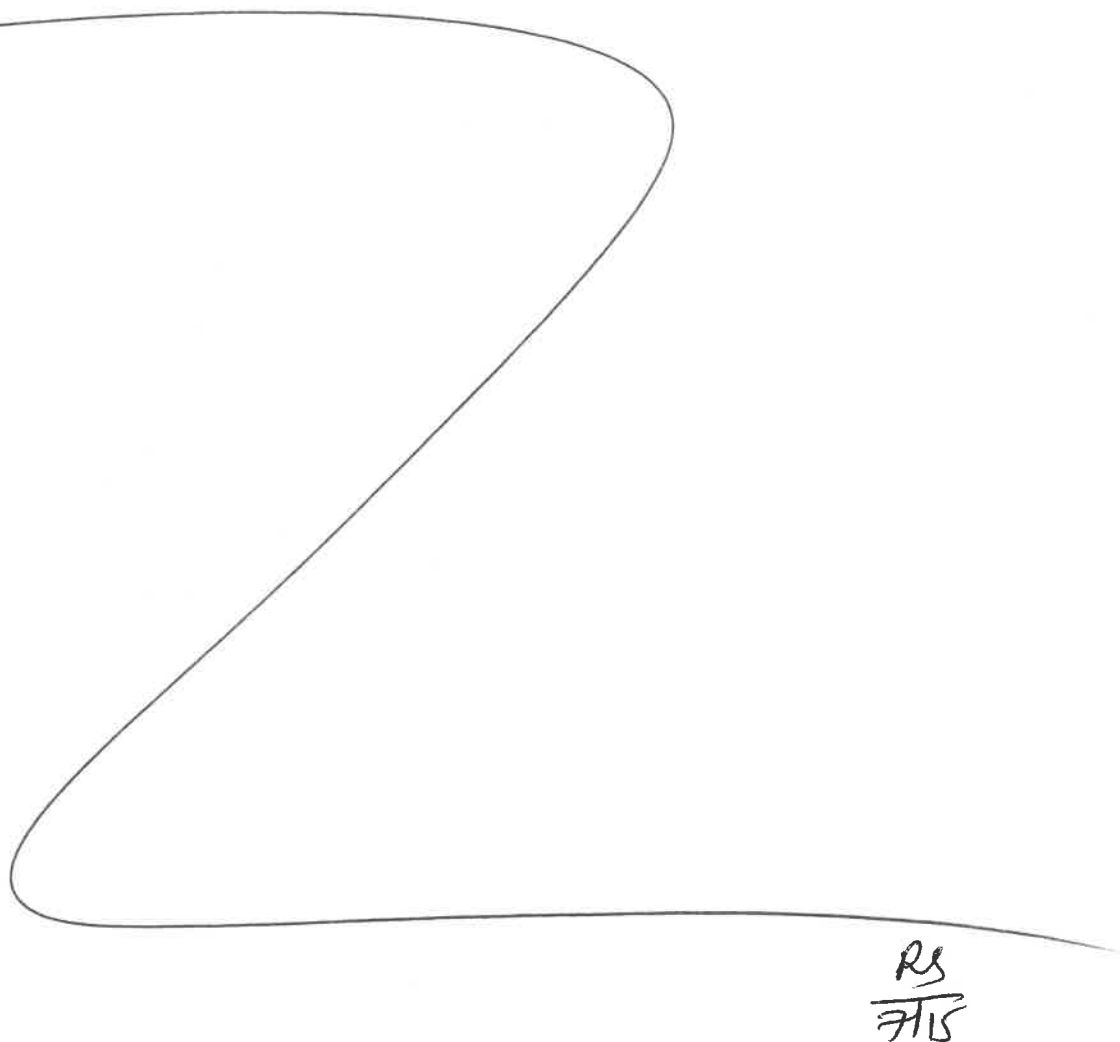
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/15/25	RS (E4 Lab)	Rclsvoc
16:40	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 07/15/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168868BL	SBLK868	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB168868BS	SLCS868	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB168868BS D	SLCSD868	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q2603-01	RW7-SP303-TEST-20250 709	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1			4
Q2603-02	RW7-POND-TEST-202507 09	SVOC-SIMGrou p1	940	6	RUPESH	ritesh	1			5
Q2604-01	RW8-SP100-20250711	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	B		6
Q2604-02	RW8-SP303-20250711	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	D		7



RS
7/15

168868
898891
11:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2603 WorkList ID : 190742 Department : Extraction Date : 07-15-2025 11:34:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2603-01	RW7-SP303-Test-20250709	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O11	07/09/2025	8270-Modified
Q2603-02	RW7-Pond-Test-20250709	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O11	07/09/2025	8270-Modified
Q2604-01	RW8-SP100-20250711	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O11	07/11/2025	8270-Modified
Q2604-02	RW8-SP303-20250711	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O11	07/11/2025	8270-Modified

Date/Time 7/15/25 11:35
Raw Sample Received by: RS (Ext-046)
Raw Sample Relinquished by: RS (Ext-046)

Date/Time 7/15/25 12:00
Raw Sample Received by: RS (Ext-046)
Raw Sample Relinquished by: RS (Ext-046)

Prep Standard - Chemical Standard Summary

Order ID : Q2604

Test : SVOC-SIMGroup1

Prepbatch ID : PB168868,

Sequence ID/Qc Batch ID: BN071625,

Standard ID :

EP2609,EP2610,EP2624,SP6740,SP6756,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,

Chemical ID :

1ul/100ul

sample,E3551,E3657,E3874,E3902,E3904,E3940,E3942,E3943,E3954,M6157,S10105,S11073,S11496,S11650,S11788,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12486,S12499,S12533,S12552,S12577,S12651,S12670,S12974,S12986,S13058,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2	None	Riteshkumar Patel
(EX-SC-2)								
<u>FROM</u>	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>
3923	Baked Sodium Sulfate	EP2624	06/26/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 06/26/2025
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025
<u>FROM</u> 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6756	03/24/2025	07/29/2025	Rahul Chavli	None	None	mohammad ahmed
								04/07/2025

FROM 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 +
99.85840ml of E3902 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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



<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 07/08/2025
<u>FROM</u> 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 07/16/2025
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 / RUPESH	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

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	E3942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/30/2025	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 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ 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.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
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:

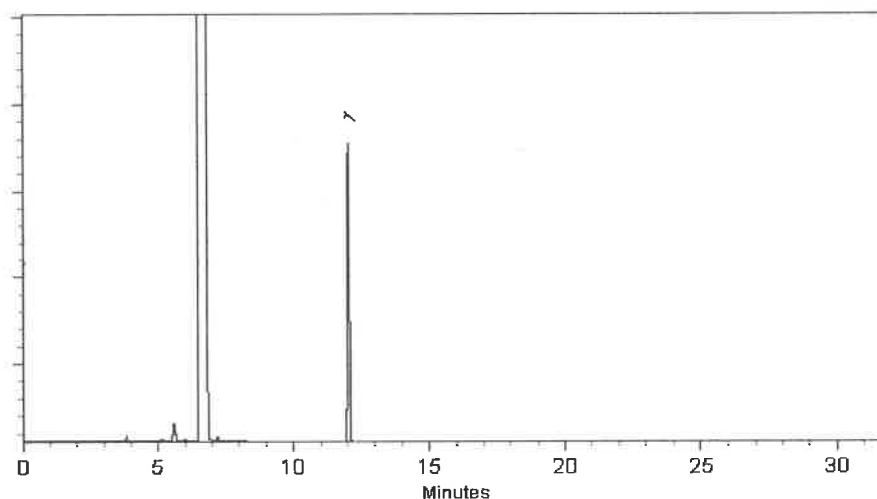
200°C

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



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

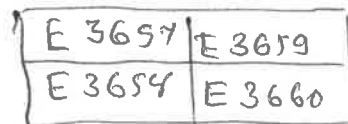
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

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

Recd 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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

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

Avantor Performance Materials LLC

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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

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

Avantor Performance Materials LLC

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 HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

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

Avantor Performance Materials LLC

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 2411262013

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

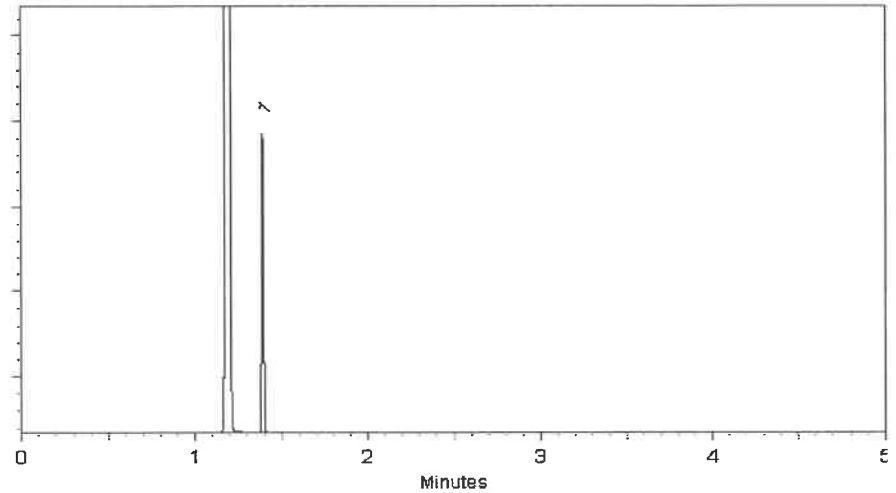
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

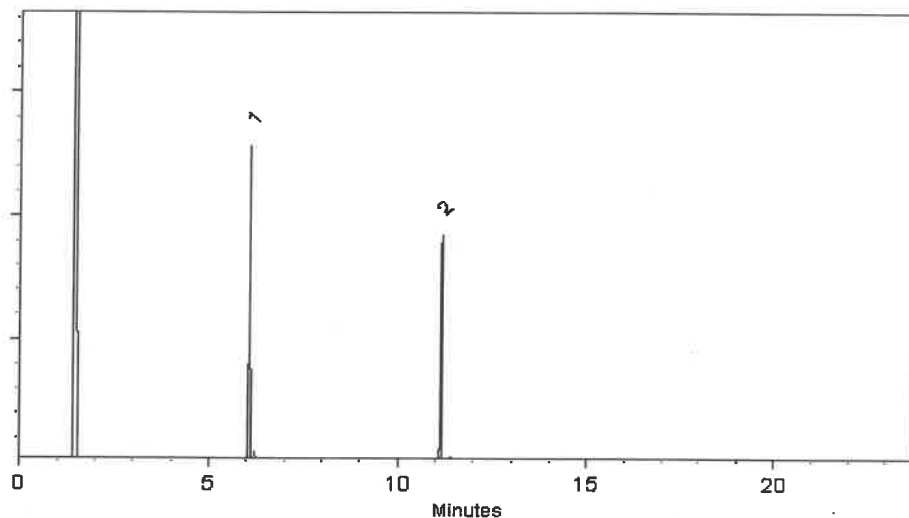
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

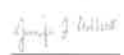


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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/
↓ } 03/18/24
512206 }

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:

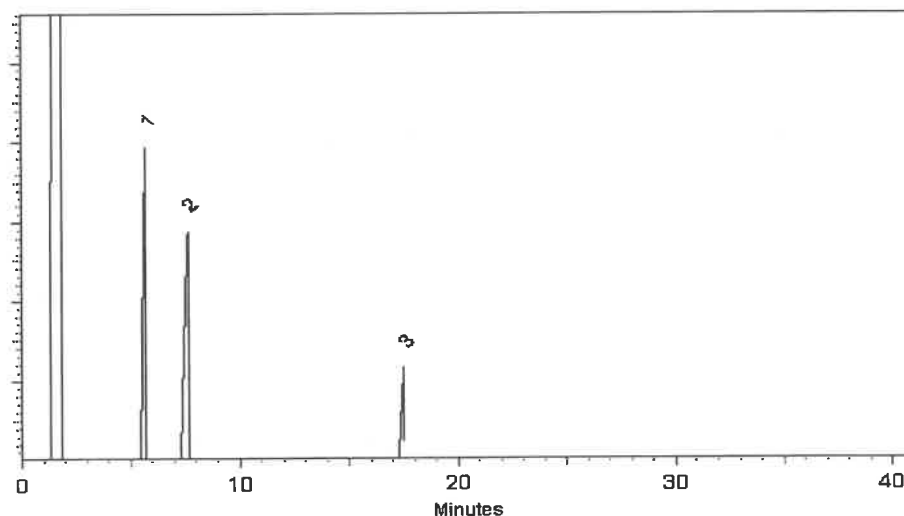
FID

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 S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

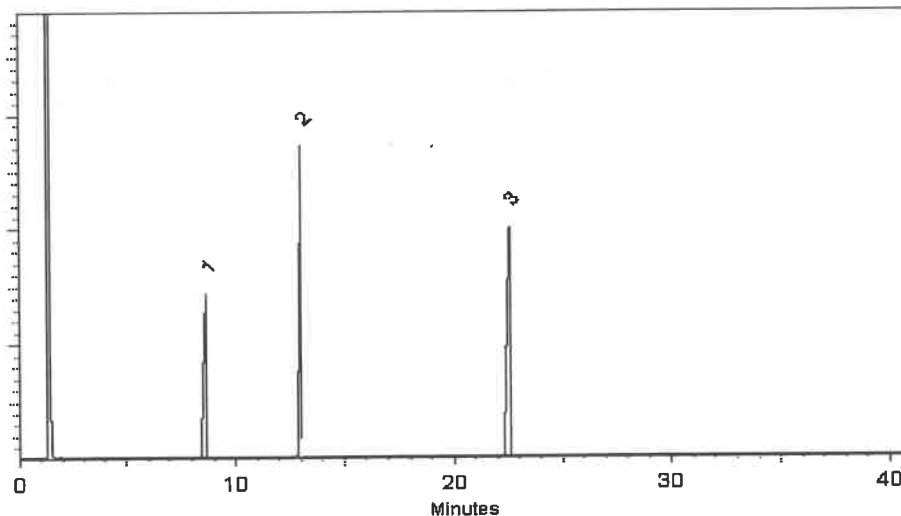
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** 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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

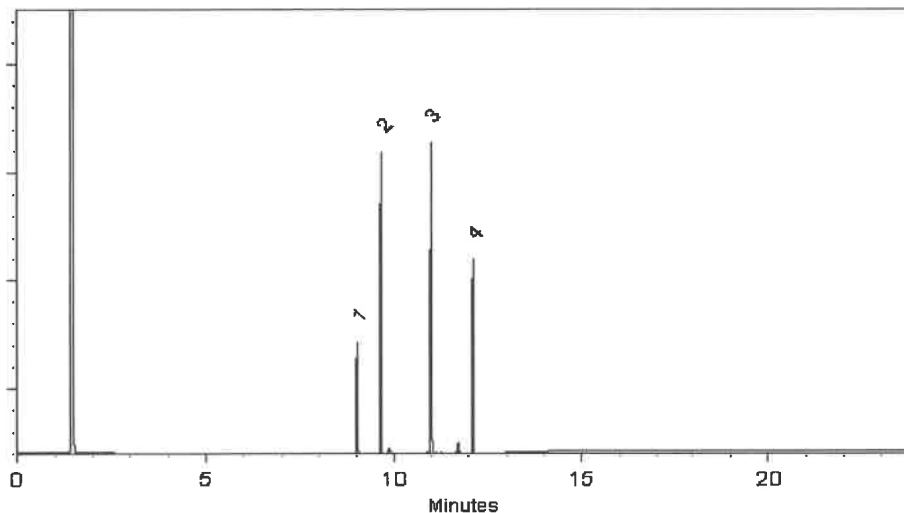
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

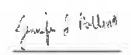


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/24

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	$\leq -10^{\circ}\text{C}$	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 $\pm$ 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 $\pm$ 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 $\pm$ 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
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

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 2604																														
				COC Number:																														
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																														
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: PO#																														
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: RW8		ADDRESS:																														
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:																														
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:																														
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148																																
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																														
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">1,4-Dioxane SW846 8270</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> </table>		1,4-Dioxane SW846 8270	1	2	3	4	5	6	7	8	9																			
1,4-Dioxane SW846 8270	1	2	3	4	5	6	7	8	9																									
				PRESERVATIVES																														
				COMMENTS																														
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">SAMPLE TYPE</th> <th colspan="2">SAMPLE COLLECTION</th> <th rowspan="2"># of Bottles</th> </tr> <tr> <th>COMP</th> <th>GRAB</th> <th>DATE</th> <th>TIME</th> </tr> </table>	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	COMP	GRAB	DATE	TIME	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">B</th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th></th> </tr> </table>	B										1	2	3	4	5	6	7	8	9		<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles																														
COMP	GRAB	DATE	TIME																															
B																																		
1	2	3	4	5	6	7	8	9																										
1.	RW8-SP100-20250711	GW		X	7/11/25	13:05	2	X	X																									
2.	RW8-SP303-20250711	GW		X	7/11/25	13:13	4	X	X	X	X																							
3.																																		
4.																																		
5.																																		
6.																																		
7.																																		
8.																																		
9.																																		
10.																																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>24.5</u> MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler? <u>yes</u> Comments:
1.	7/14/25 1:50	1.	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2.	7/15/25 10:15	2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3.		3.	

Page _____ of _____

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