

Cover Page

Order ID : Q2937

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2937-01
Q2937-02

Client Sample Number

RW8-SP100-20250821
RW8-SP303-20250821

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: 9/1/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q2937

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/22/2025.

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 except for, RW8-SP100-20250821 [Terphenyl-d14 - 140%], RW8-SP303-20250821 [Terphenyl-d14 - 144%]. Failed surrogate is not associated with DOD, Therefore no further corrective action was taken.

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



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The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

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: Q2937

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries were met for all analysis except for, RW8-SP100-20250821 [Terphenyl-d14 - 140%], RW8-SP303-20250821 [Terphenyl-d14 - 144%]. Failed surrogate is not associated with DOD, Therefor no further corrective action was taken.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds.			✓

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

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

(CONTINUED)

		NA	NO	YES
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 Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2937

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: 09/01/2025

LAB CHRONICLE

OrderID:	Q2937	OrderDate:	8/22/2025 9:37:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	J31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2937-01	RW8-SP100-2025082 1	Water			08/21/25			08/22/25
			SVOC-SIMGroup1	8270-Modified		08/27/25	08/28/25	
Q2937-02	RW8-SP303-2025082 1	Water			08/21/25			08/22/25
			SVOC-SIMGroup1	8270-Modified		08/27/25	08/28/25	



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Hit Summary Sheet
SW-846

SDG No.: Q2937
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.: Q2937

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169421BL	PB169421BL	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB169421BS	PB169421BS	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.28	71		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
PB169421BSD	PB169421BSD	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.32	80		30	150
		Nitrobenzene-d5	0.4	0.40	101		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q2937-01	RW8-SP100-20250821	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.56	140	*	58	132
Q2937-02	RW8-SP303-20250821	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.58	144	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2937

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037652.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169421BS	1,4-Dioxane	0.4	0.30	ug/L	75				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2937

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037653.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	
								Qual		High	RPD
PB169421BSD	1,4-Dioxane	0.4	0.32	ug/L	80	6			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169421BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2937

Lab File ID: BN037649.D

Lab Sample ID: PB169421BL

Instrument ID: BNA_N

Date Extracted: 08/27/2025

Matrix: (soil/water) Water

Date Analyzed: 08/28/2025

Level: (low/med) LOW

Time Analyzed: 10:05

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169421BS	PB169421BS	BN037652.D	08/28/2025
RW8-SP100-20250821	Q2937-01	BN037650.D	08/28/2025
RW8-SP303-20250821	Q2937-02	BN037651.D	08/28/2025
PB169421BSD	PB169421BSD	BN037653.D	08/28/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037576.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2937
DFTPP Injection Date: 08/12/2025
DFTPP Injection Time: 15:05

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	7.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	87.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037578.D	08/12/2025	16:26
SSTDICC0.2	SSTDICC0.2	BN037579.D	08/12/2025	17:03
SSTDICCC0.4	SSTDICCC0.4	BN037580.D	08/12/2025	17:39
SSTDICC0.8	SSTDICC0.8	BN037581.D	08/12/2025	18:16
SSTDICC1.6	SSTDICC1.6	BN037582.D	08/12/2025	18:52
SSTDICC3.2	SSTDICC3.2	BN037583.D	08/12/2025	19:29
SSTDICC5.0	SSTDICC5.0	BN037584.D	08/12/2025	20:05



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037647.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2937
DFTPP Injection Date: 08/28/2025
DFTPP Injection Time: 08:50

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	4.1
441	Present, but less than mass 443	81.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.3 (18.9) 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	BN037648.D	08/28/2025	09:29
PB169421BL	PB169421BL	BN037649.D	08/28/2025	10:05
RW8-SP100-20250821	Q2937-01	BN037650.D	08/28/2025	10:42
RW8-SP303-20250821	Q2937-02	BN037651.D	08/28/2025	11:18
PB169421BS	PB169421BS	BN037652.D	08/28/2025	11:54
PB169421BSD	PB169421BSD	BN037653.D	08/28/2025	12:30
SSTDCCC0.4EC	SSTDCCC0.4	BN037654.D	08/28/2025	13:14

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2937

Client ID : SSTDCCC0.4

Date Analyzed: 08/28/2025

Lab File ID: BN037648.D

Time Analyzed: 09:29

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	2763	7.71	6612	10.49	3159	14.33
UPPER LIMIT	5526	8.21	13224	10.987	6318	14.834
LOWER LIMIT	1381.5	7.21	3306	9.987	1579.5	13.834
EPA SAMPLE NO.						
01 PB169421BL	2813	7.71	6247	10.49	2646	14.35
02 RW8-SP100-20250821	2104	7.71	4814	10.49	2198	14.35
03 PB169421BS	2769	7.71	6405	10.49	2792	14.35
04 RW8-SP303-20250821	1972	7.71	4616	10.49	2088	14.35
05 PB169421BSD	2452	7.71	5588	10.49	2436	14.35

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2937

Client ID: SSTDCCC0.4

Date Analyzed: 08/28/2025

Lab File ID: BN037648.D

Time Analyzed: 09:29

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	6462	17.086	5486	21.259	4720	23.493
UPPER LIMIT	12924	17.586	10972	21.759	9440	23.993
LOWER LIMIT	3231	16.586	2743	20.759	2360	22.993
EPA SAMPLE NO.						
01 PB169421BL	5175	17.09	4266	21.27	3908	23.50
02 RW8-SP100-20250821	4468	17.09	3707	21.27	3325	23.49
03 PB169421BS	4991	17.09	3590	21.27	3204	23.50
04 RW8-SP303-20250821	4583	17.09	3870	21.27	3373	23.50
05 PB169421BSD	4479	17.09	3451	21.27	3064	23.50

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:	08/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/22/25
Client Sample ID:	RW8-SP100-20250821	SDG No.:	Q2937
Lab Sample ID:	Q2937-01	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
BN037650.D	1	08/27/25 08:45	08/28/25 10:42	PB169421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		140%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2100	7.71				
1146-65-2	Naphthalene-d8	4810	10.487				
15067-26-2	Acenaphthene-d10	2200	14.345				
1517-22-2	Phenanthrene-d10	4470	17.086				
1719-03-5	Chrysene-d12	3710	21.268				
1520-96-3	Perylene-d12	3330	23.493				

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\BN082825\
 Data File : BN037650.D
 Acq On : 28 Aug 2025 10:42
 Operator : RC/JU
 Sample : Q2937-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW8-SP100-20250821

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/03/2025
 Supervised By :Jagrut Upadhyay 09/03/2025

Quant Time: Aug 28 11:49:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2104	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	4814	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2198	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4468	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3707	0.400	ng	# 0.00
35) Perylene-d12	23.493	264	3325	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	637	0.134	ng	0.00
5) Phenol-d6	6.879	99	414	0.072	ng	0.00
8) Nitrobenzene-d5	8.854	82	1179	0.348	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	1892	0.289	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	423	0.440	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	4845	0.381	ng	0.00
27) Fluoranthene-d10	19.113	212	4436	0.377	ng	0.00
31) Terphenyl-d14	19.712	244	4277	0.561	ng	-0.01
Target Compounds						Qvalue
23) Atrazine	16.553	200	48	0.030	ng	# 52
24) Pentachlorophenol	16.739	266	41	0.029	ng	# 77
28) Fluoranthene	19.141	202	479	0.031	ng	# 84
30) Pyrene	19.503	202	443	0.032	ng	98
32) Benzo(a)anthracene	21.250	228	380	0.031	ng	# 77
33) Chrysene	21.304	228	480	0.035	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.196	149	479	0.094	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.759	276	457m	0.033	ng	
37) Benzo(b)fluoranthene	22.826	252	445	0.035	ng	# 5
38) Benzo(k)fluoranthene	22.870	252	427	0.030	ng	# 12
41) Benzo(g,h,i)perylene	26.440	276	311	0.027	ng	# 38

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

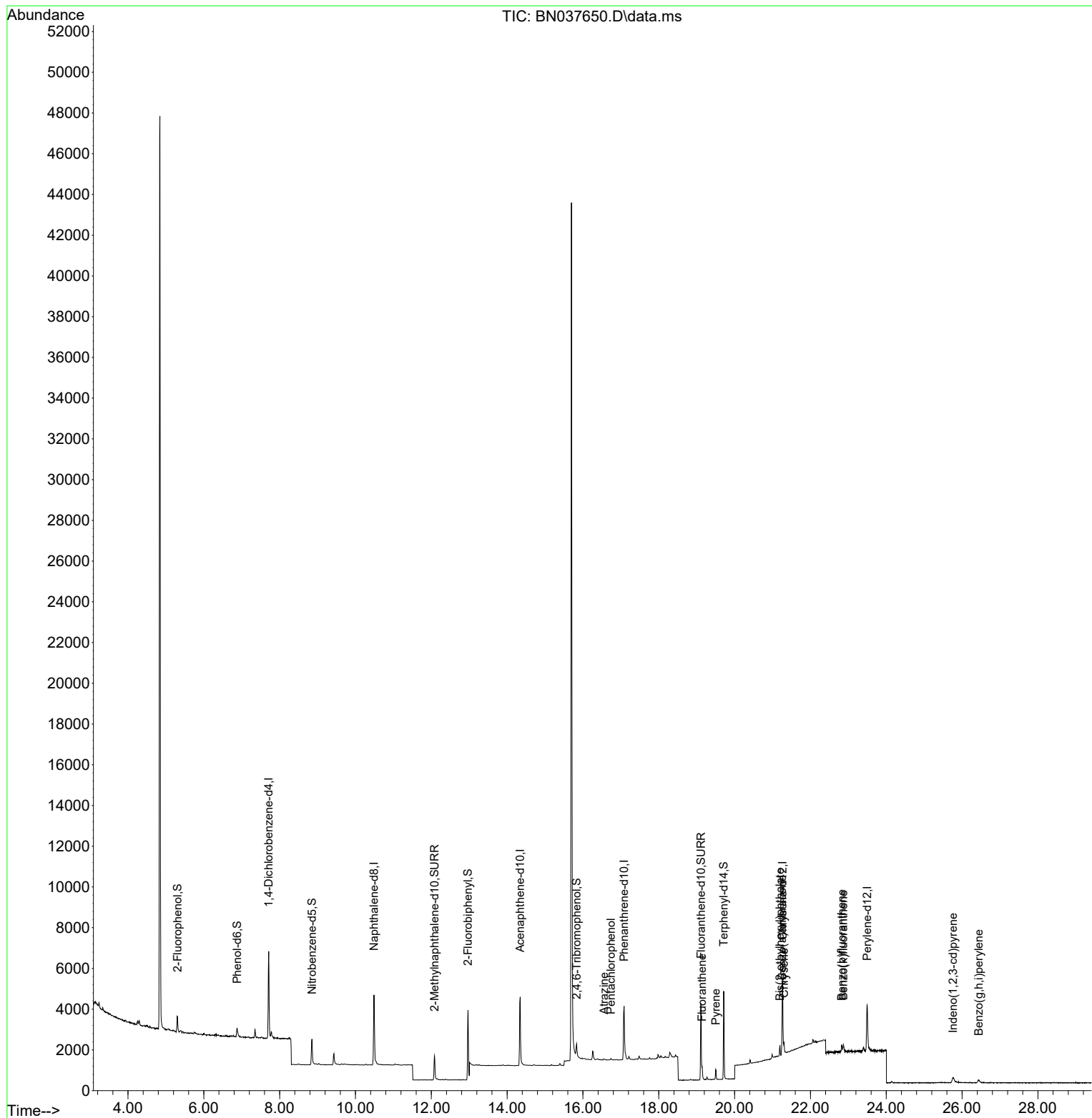
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037650.D
Acq On : 28 Aug 2025 10:42
Operator : RC/JU
Sample : Q2937-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

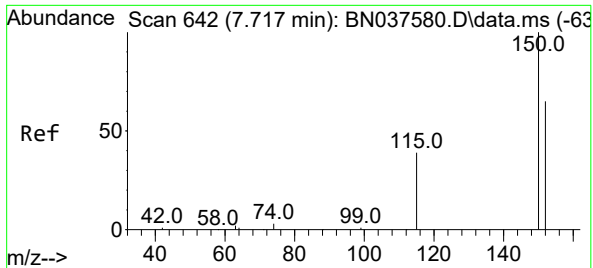
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

Manual Integrations
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Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025

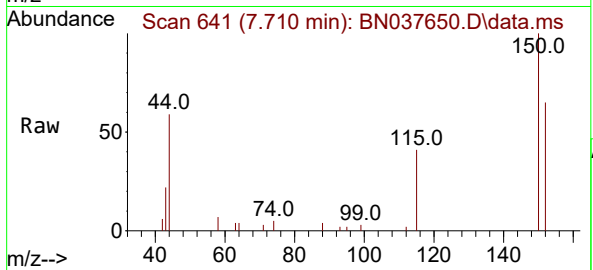
Quant Time: Aug 28 11:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 642
Delta R.T. -0.007 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

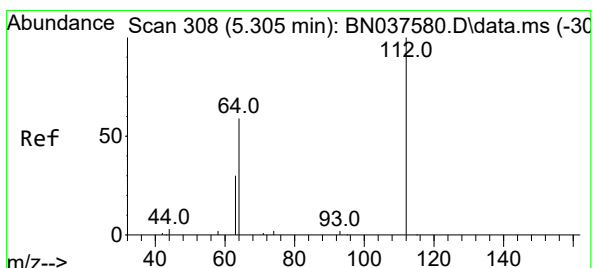
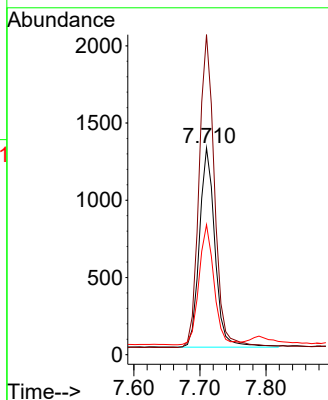
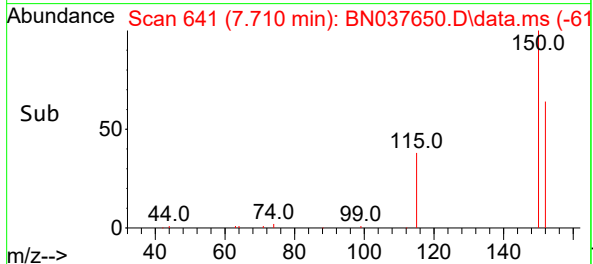
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821



Tgt Ion:152 Resp: 2104
Ion Ratio Lower Upper
152 100
150 154.7 122.2 183.4
115 62.8 49.8 74.6

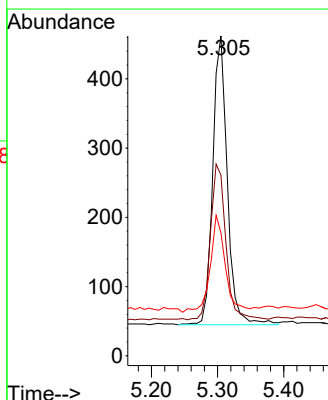
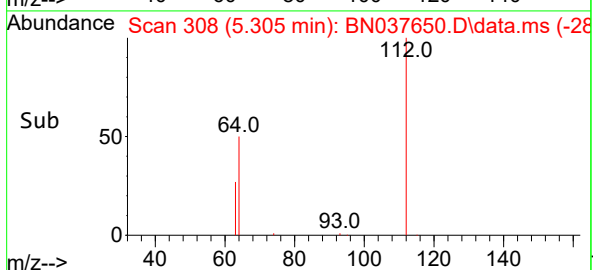
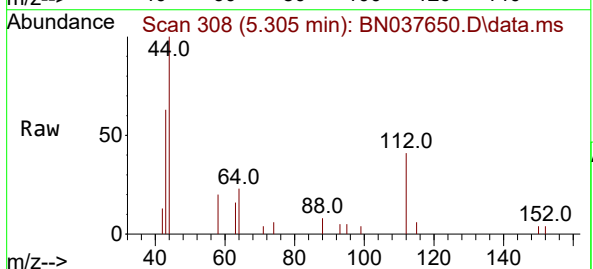
Manual Integrations
APPROVED

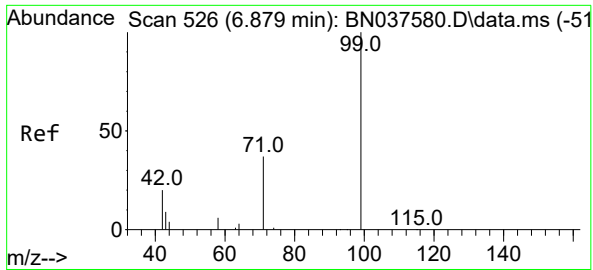
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#4
2-Fluorophenol
Concen: 0.134 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

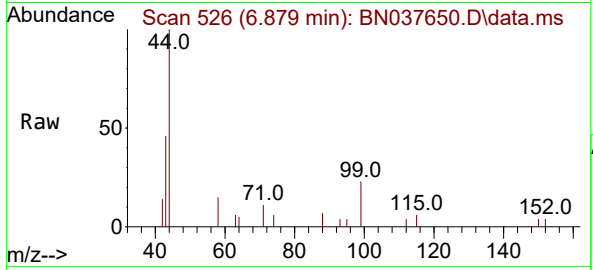
Tgt Ion:112 Resp: 637
Ion Ratio Lower Upper
112 100
64 57.1 44.9 67.3
63 34.5 23.4 35.2





#5
Phenol-d6
Concen: 0.072 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

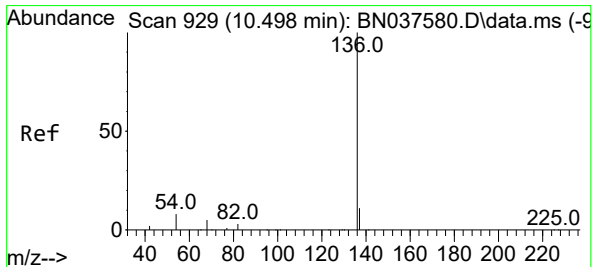
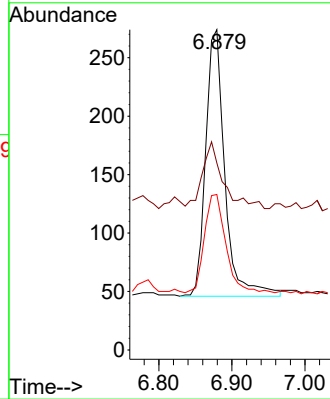
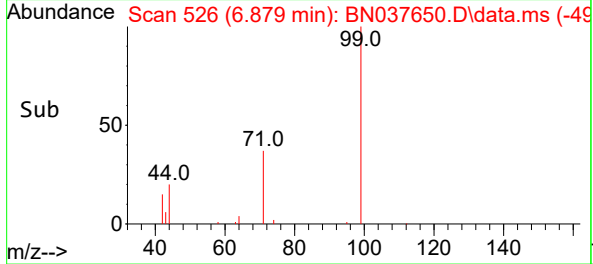
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821



Tgt Ion: 99 Resp: 414
Ion Ratio Lower Upper
99 100
42 29.5 18.5 27.7
71 42.0 28.6 42.8

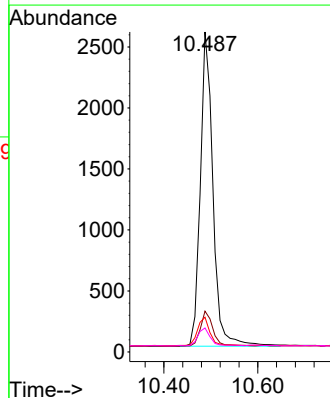
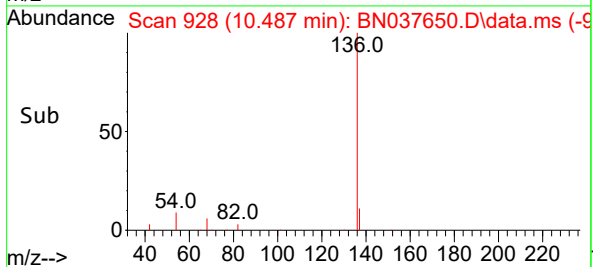
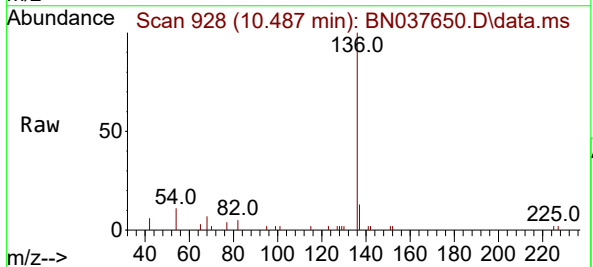
Manual Integrations
APPROVED

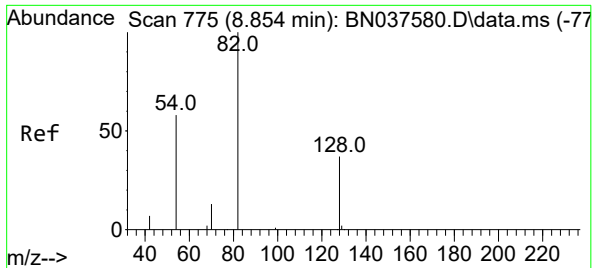
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.011 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

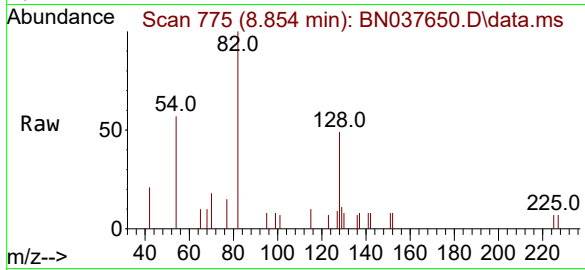
Tgt Ion:136 Resp: 4814
Ion Ratio Lower Upper
136 100
137 12.7 9.5 14.3
54 10.8 7.3 10.9
68 7.5 5.1 7.7





#8
Nitrobenzene-d5
Concen: 0.348 ng
RT: 8.854 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

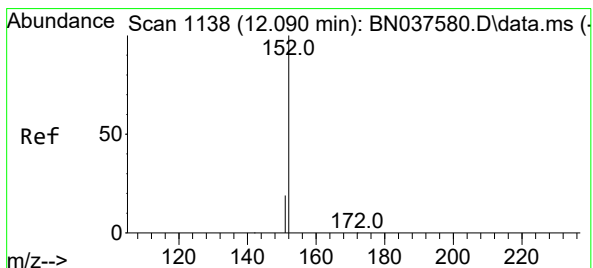
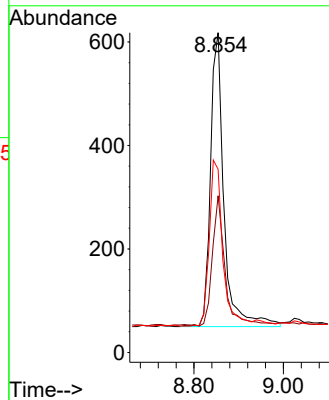
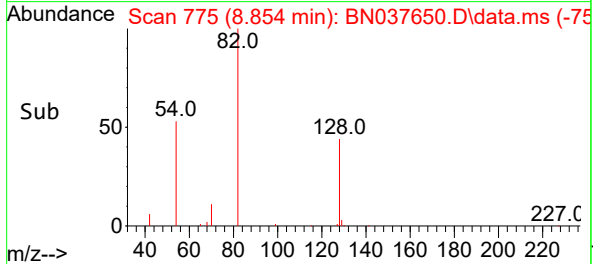
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821



Tgt Ion: 82 Resp: 1179
Ion Ratio Lower Upper
82 100
128 49.0 32.6 48.8
54 57.3 48.9 73.3

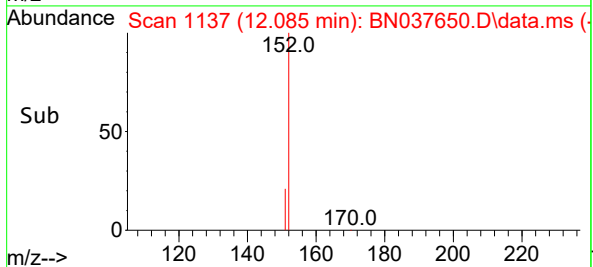
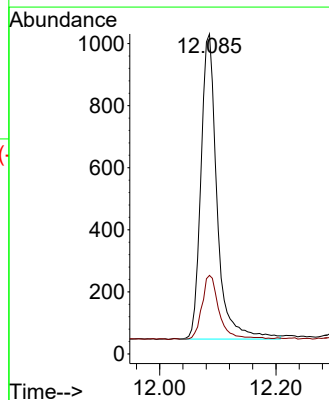
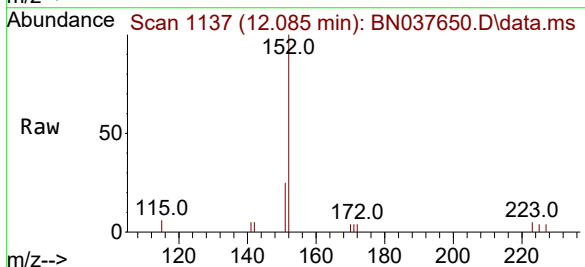
Manual Integrations
APPROVED

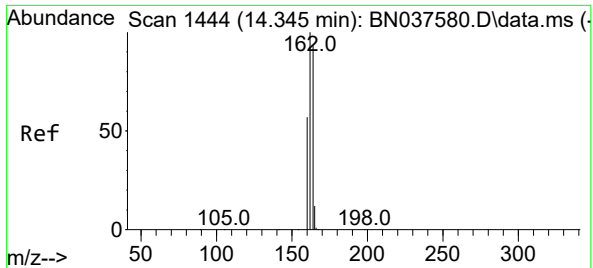
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

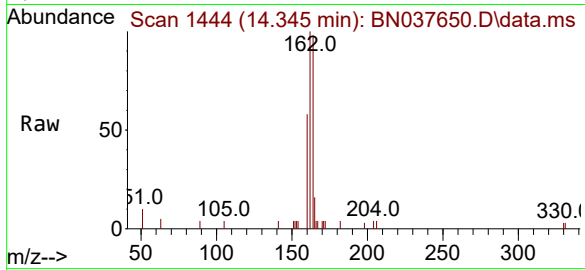
Tgt Ion:152 Resp: 1892
Ion Ratio Lower Upper
152 100
151 22.0 17.3 25.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

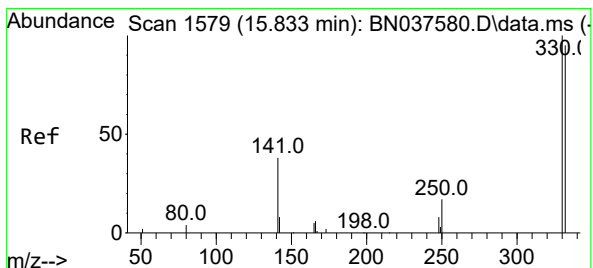
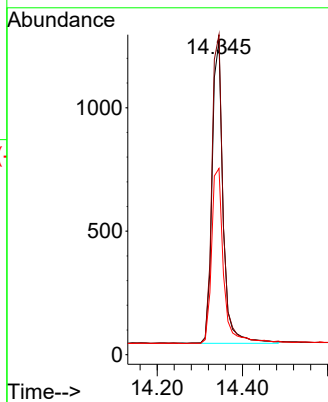
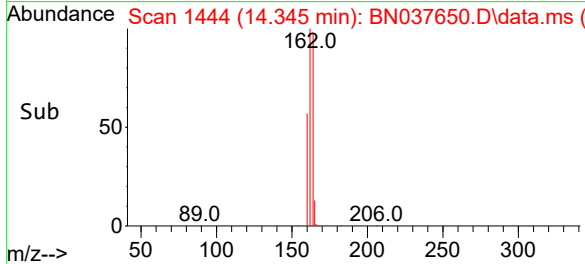
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821



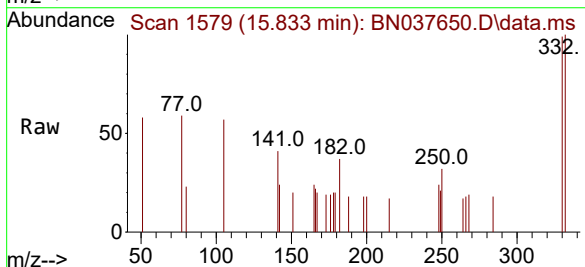
Tgt Ion:164 Resp: 2198
Ion Ratio Lower Upper
164 100
162 102.0 85.5 128.3
160 59.3 49.5 74.3

Manual Integrations
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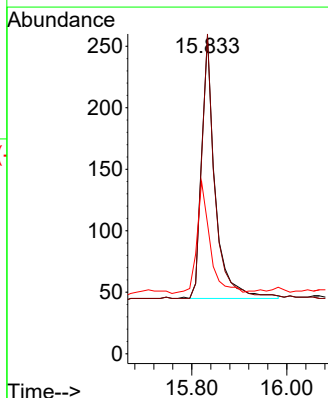
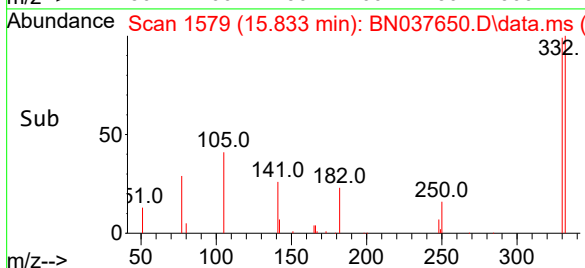
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025

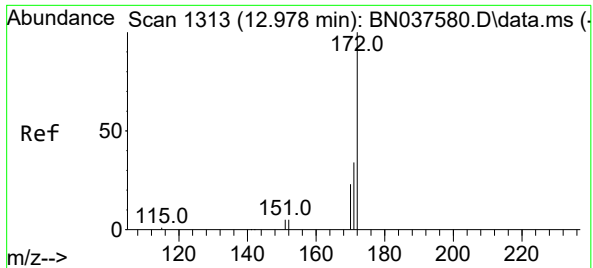


#14
2,4,6-Tribromophenol
Concen: 0.440 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42



Tgt Ion:330 Resp: 423
Ion Ratio Lower Upper
330 100
332 98.3 77.4 116.0
141 41.8 30.9 46.3





#15

2-Fluorobiphenyl

Concen: 0.381 ng

RT: 12.968 min Scan# 11

Delta R.T. -0.010 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821

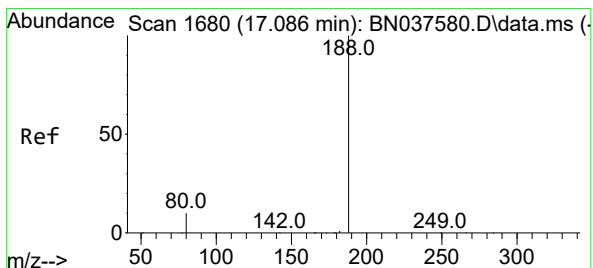
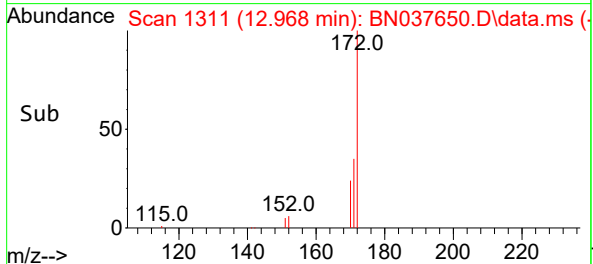
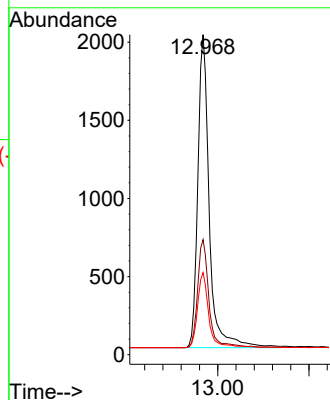
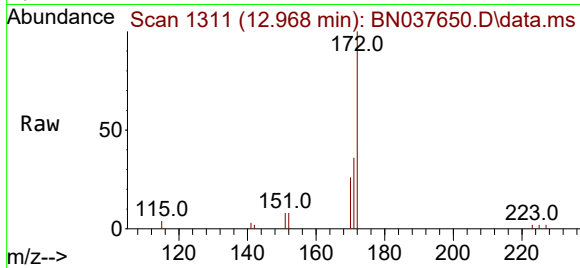
Tgt Ion:	172	Resp:	484
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.2	42.4
170	25.7	19.2	28.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#19

Phenanthrene-d10

Concen: 0.400 ng

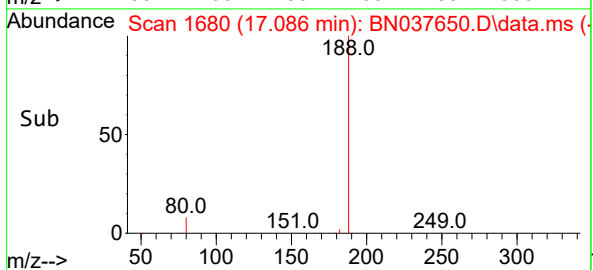
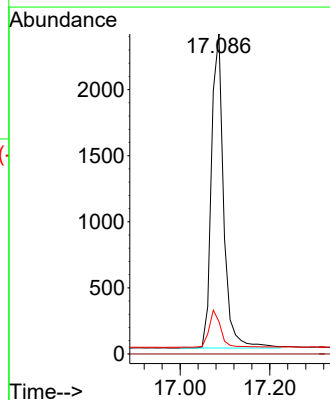
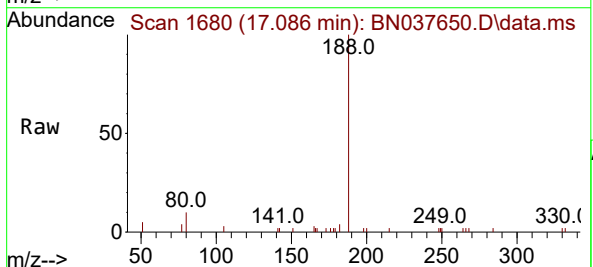
RT: 17.086 min Scan# 1680

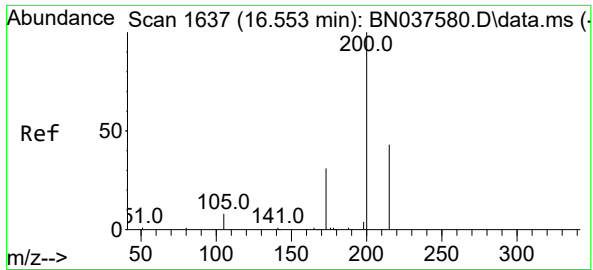
Delta R.T. 0.000 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

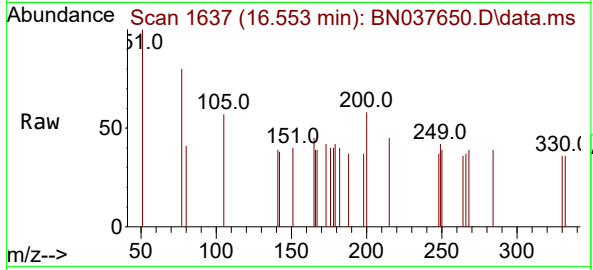
Tgt Ion:	188	Resp:	4468
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	9.1	13.7





#23
Atrazine
Concen: 0.030 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

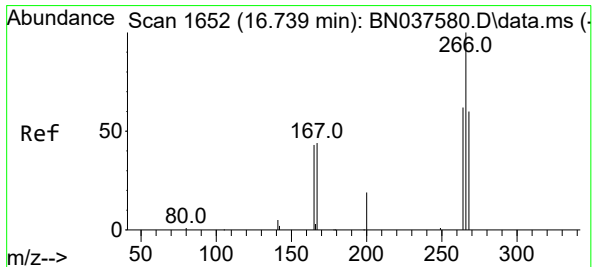
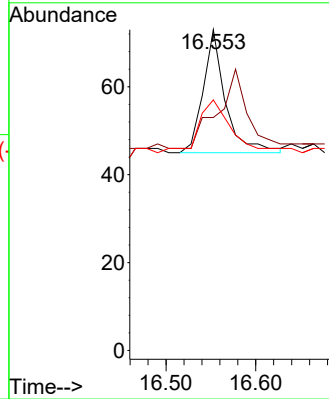
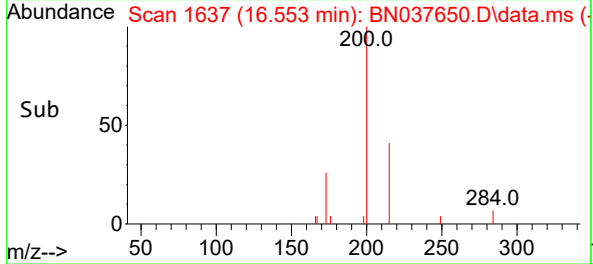
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821



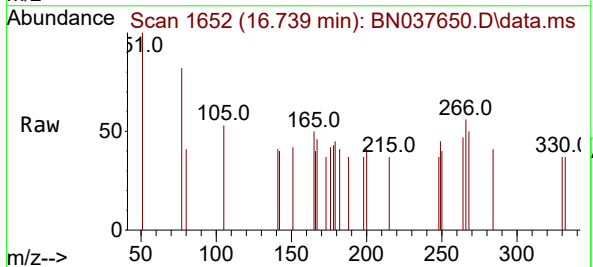
Tgt Ion:200 Resp: 48
Ion Ratio Lower Upper
200 100
173 72.6 31.0 46.4#
215 78.1 39.4 59.0#

Manual Integrations
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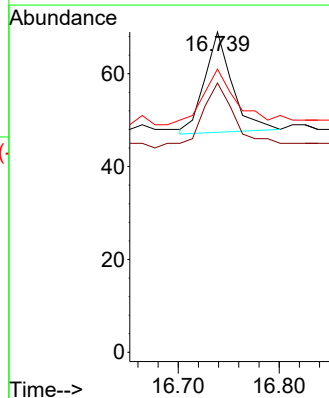
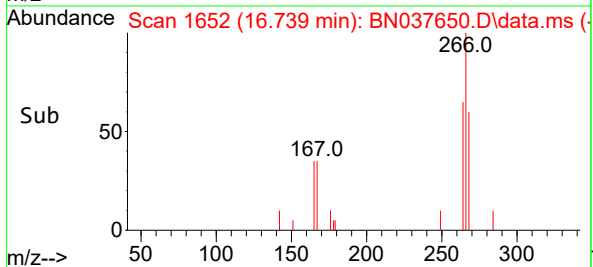
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025

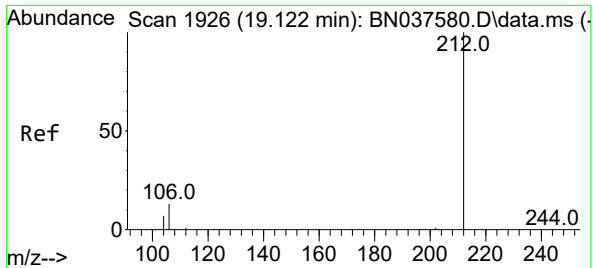


#24
Pentachlorophenol
Concen: 0.029 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42



Tgt Ion:266 Resp: 41
Ion Ratio Lower Upper
266 100
264 82.9 49.6 74.4#
268 75.6 49.2 73.8#





#27

Fluoranthene-d10

Concen: 0.377 ng

RT: 19.113 min Scan# 1926

Delta R.T. -0.009 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821

Tgt Ion:212 Resp: 4430

Ion Ratio Lower Upper

212 100

106 15.3 11.5 17.3

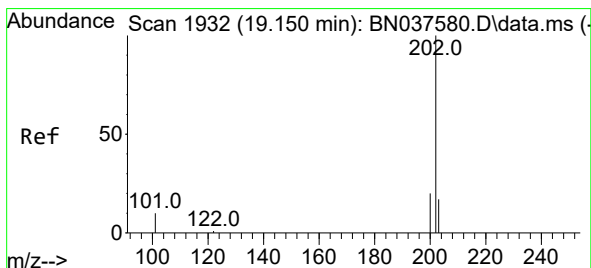
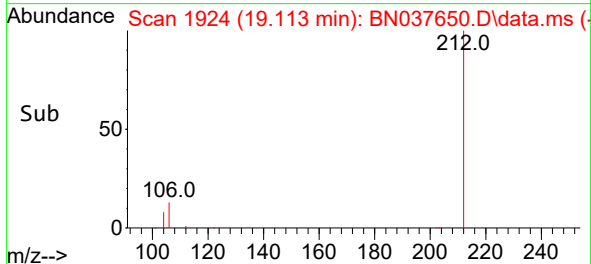
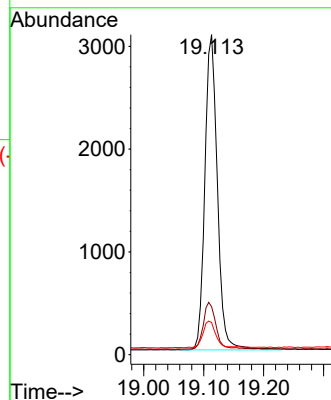
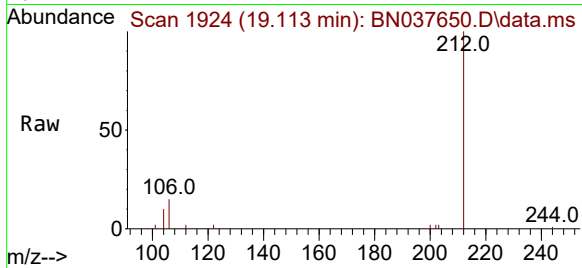
104 8.6 6.6 9.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#28

Fluoranthene

Concen: 0.031 ng

RT: 19.141 min Scan# 1930

Delta R.T. -0.009 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

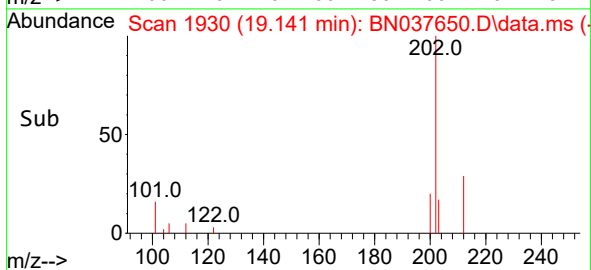
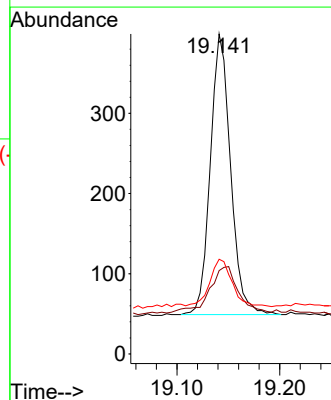
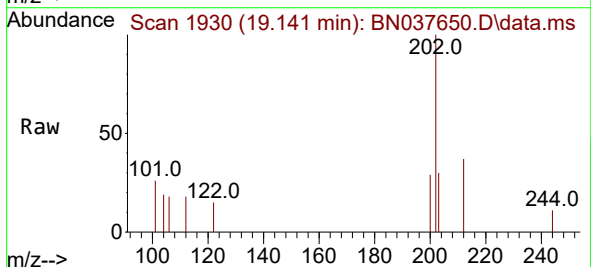
Tgt Ion:202 Resp: 479

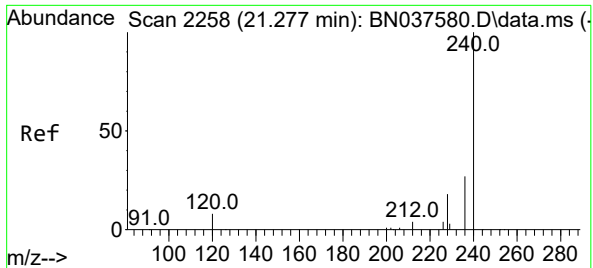
Ion Ratio Lower Upper

202 100

101 24.0 9.0 13.6#

203 19.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037650.D

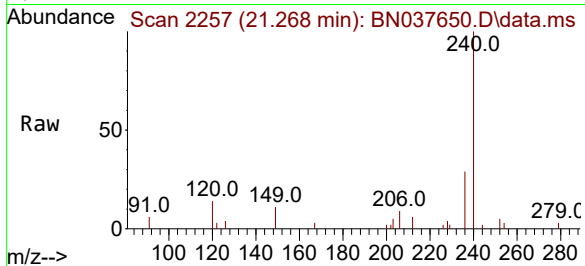
Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821



Tgt Ion:240 Resp: 370

Ion Ratio Lower Upper

240 100

120 14.0 8.9 13.3

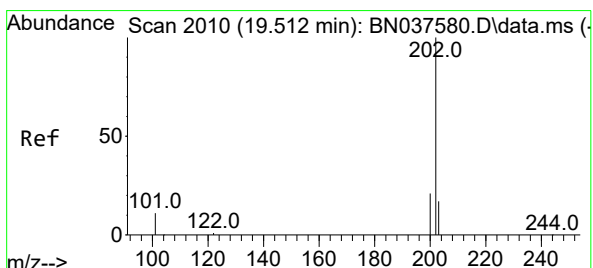
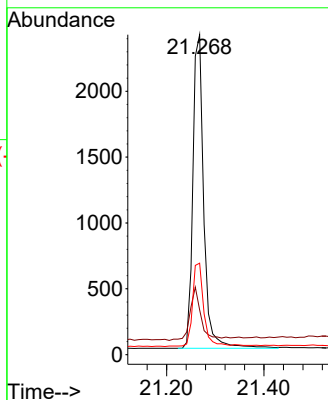
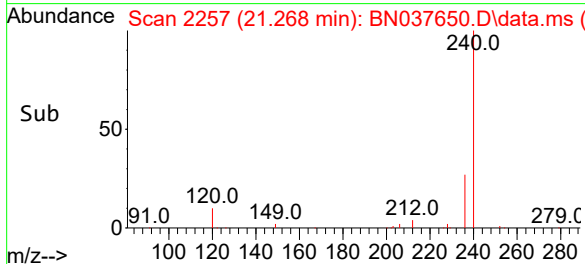
236 28.6 22.6 33.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#30

Pyrene

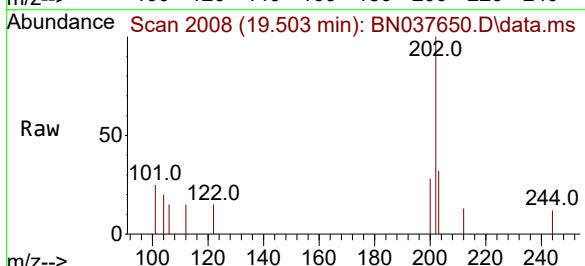
Concen: 0.032 ng

RT: 19.503 min Scan# 2008

Delta R.T. -0.009 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42



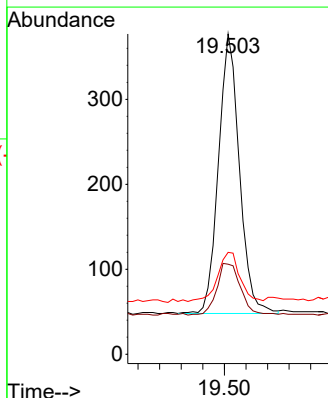
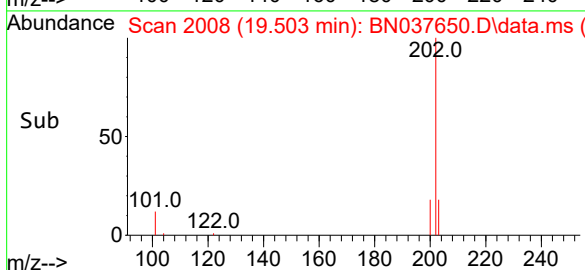
Tgt Ion:202 Resp: 443

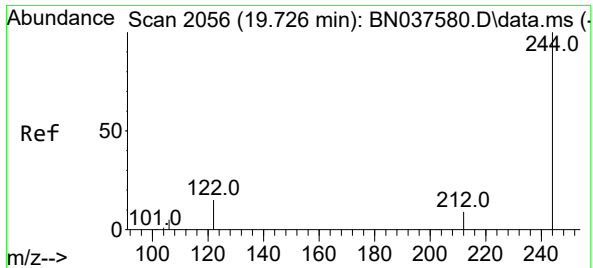
Ion Ratio Lower Upper

202 100

200 21.4 16.6 25.0

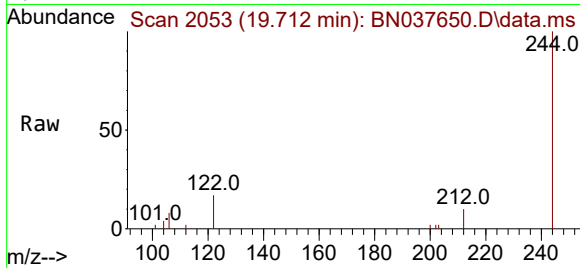
203 18.7 14.3 21.5





#31
Terphenyl-d14
Concen: 0.561 ng
RT: 19.712 min Scan# 2056
Delta R.T. -0.014 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

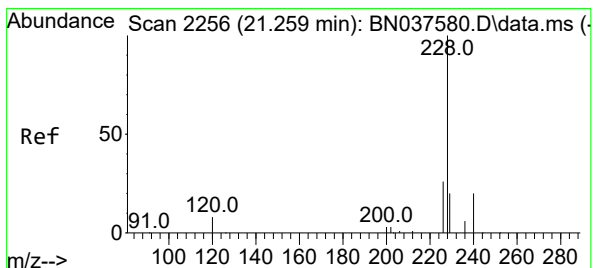
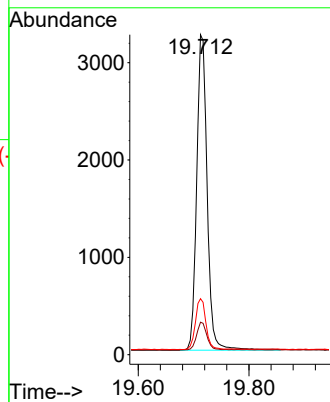
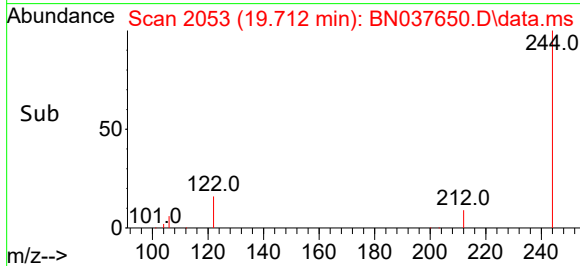
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821



Tgt Ion:244 Resp: 427
Ion Ratio Lower Upper
244 100
212 10.1 8.2 12.2
122 17.5 13.2 19.8

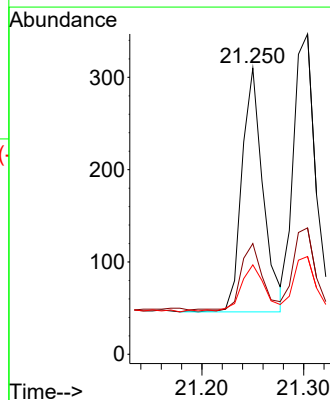
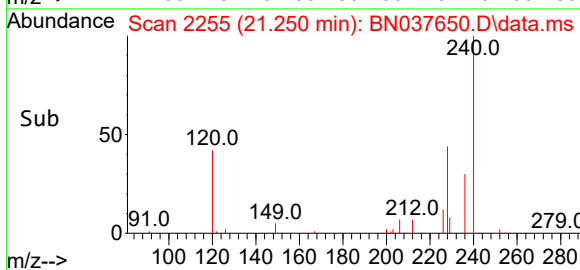
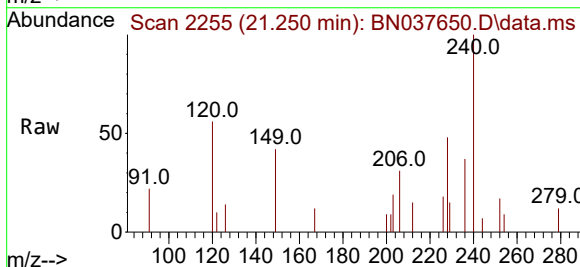
Manual Integrations
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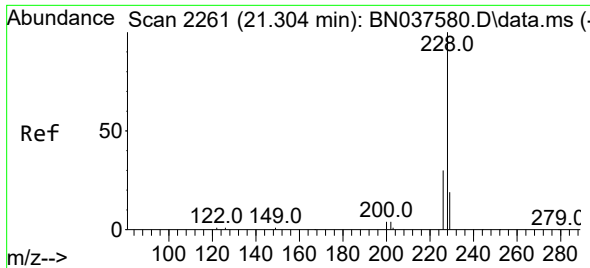
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#32
Benzo(a)anthracene
Concen: 0.031 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:228 Resp: 380
Ion Ratio Lower Upper
228 100
226 38.7 21.5 32.3#
229 31.3 16.5 24.7#





#33

Chrysene

Concen: 0.035 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037650.D

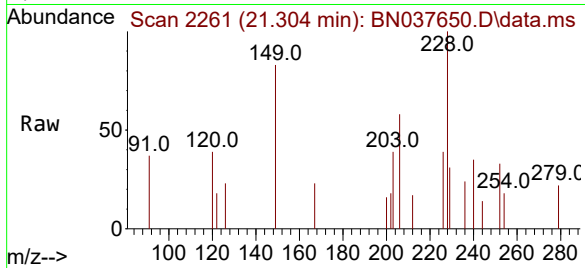
Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821



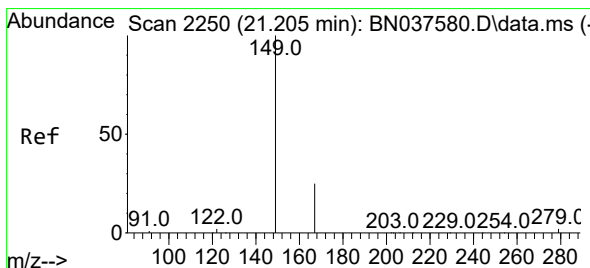
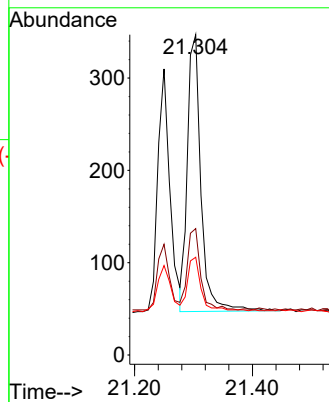
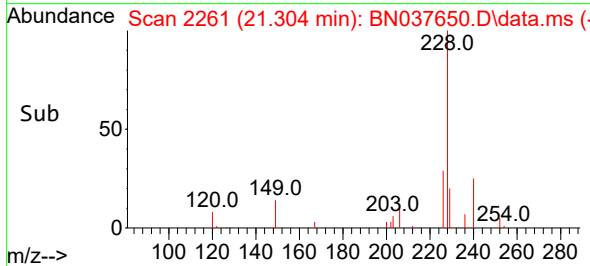
Tgt Ion:	228	Resp:	480
Ion Ratio	Lower	Upper	
228	100		
226	39.5	24.9	37.3
229	30.5	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#34

Bis(2-ethylhexyl)phthalate

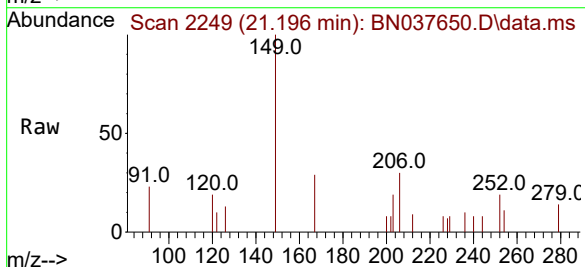
Concen: 0.094 ng

RT: 21.196 min Scan# 2249

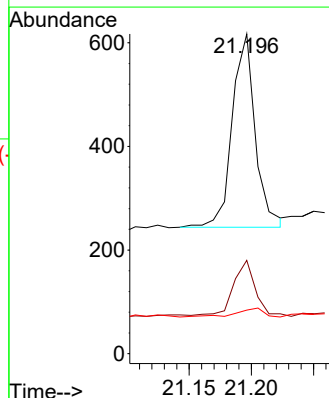
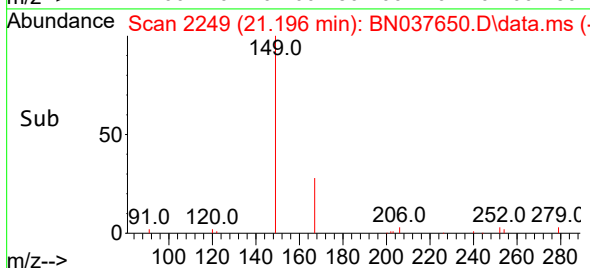
Delta R.T. -0.009 min

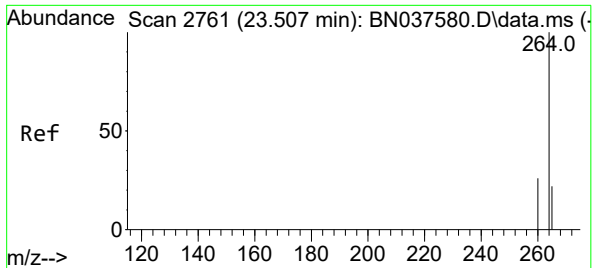
Lab File: BN037650.D

Acq: 28 Aug 2025 10:42



Tgt Ion:	149	Resp:	479
Ion Ratio	Lower	Upper	
149	100		
167	27.8	20.5	30.7
279	5.2	2.6	4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037650.D

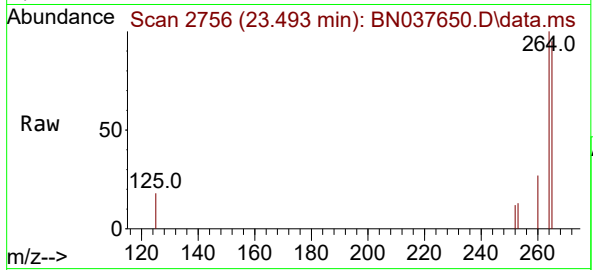
Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821



Tgt Ion:264 Resp: 332

Ion Ratio Lower Upper

264 100

260 27.1 21.6 32.4

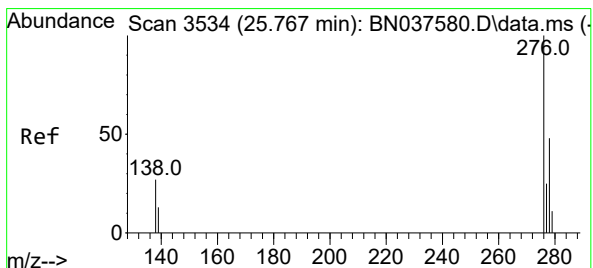
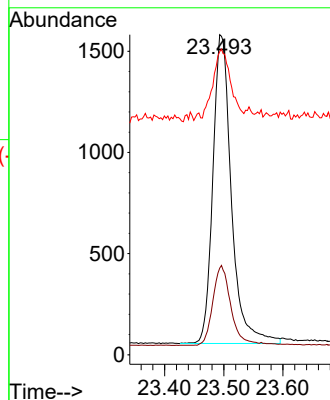
265 94.7 48.2 72.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.033 ng m

RT: 25.759 min Scan# 3531

Delta R.T. -0.009 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

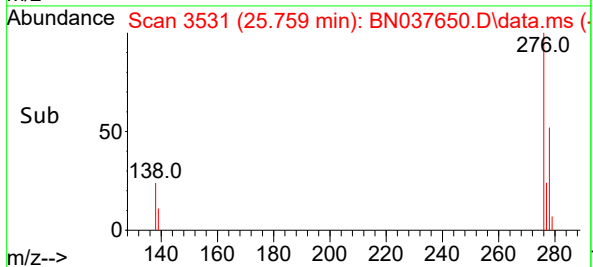
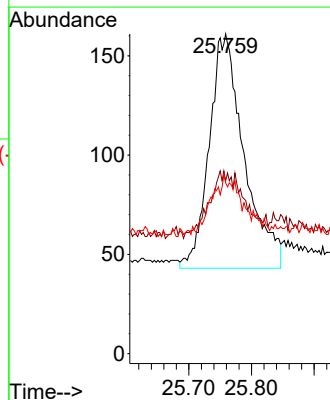
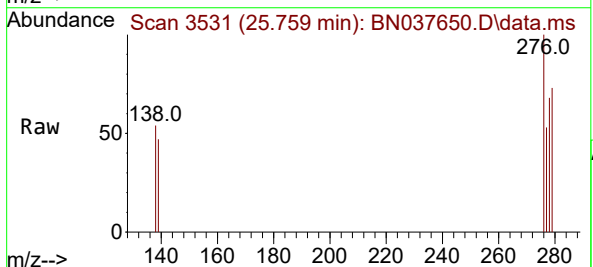
Tgt Ion:276 Resp: 457

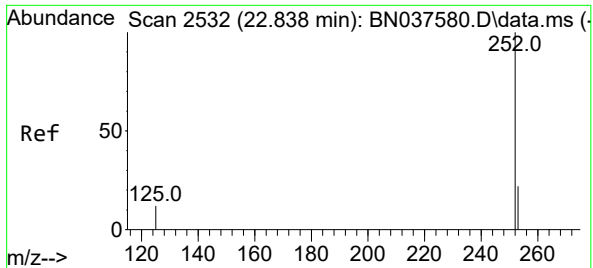
Ion Ratio Lower Upper

276 100

138 11.6 23.3 34.9#

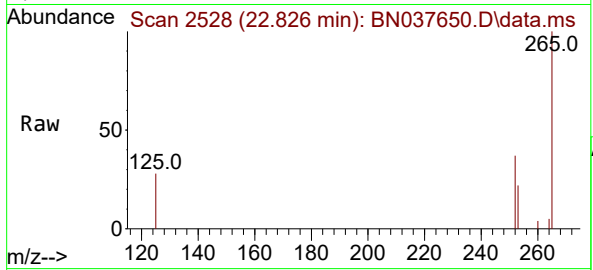
277 11.6 19.5 29.3#





#37
Benzo(b)fluoranthene
Concen: 0.035 ng
RT: 22.826 min Scan# 2528
Delta R.T. -0.012 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

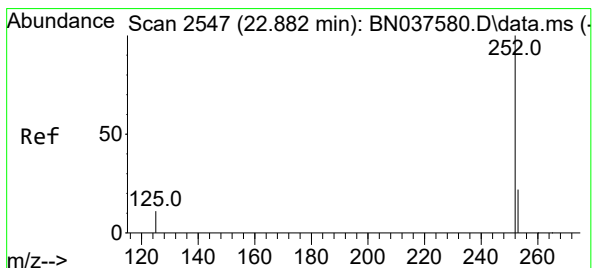
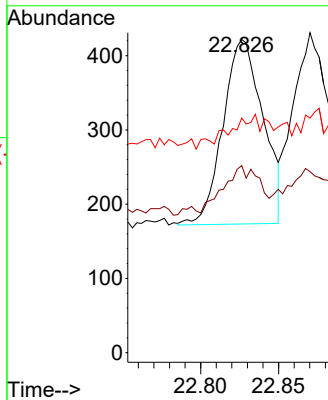
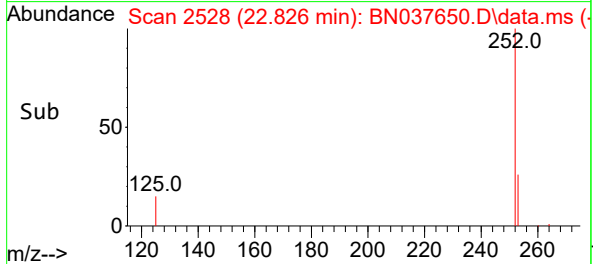
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821



Tgt Ion:252 Resp: 445
Ion Ratio Lower Upper
252 100
253 59.7 20.0 30.0#
125 74.9 13.8 20.6#

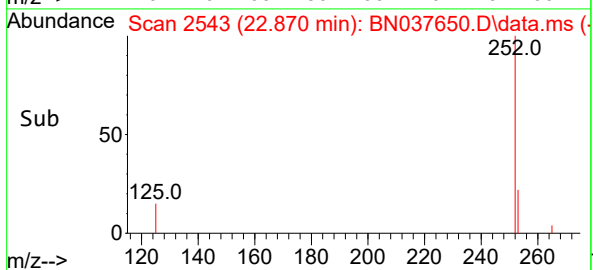
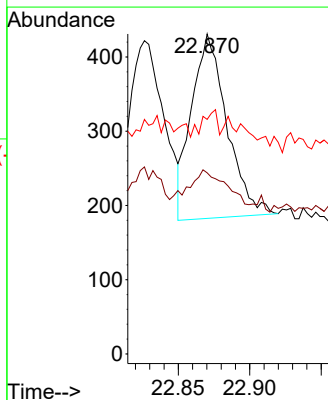
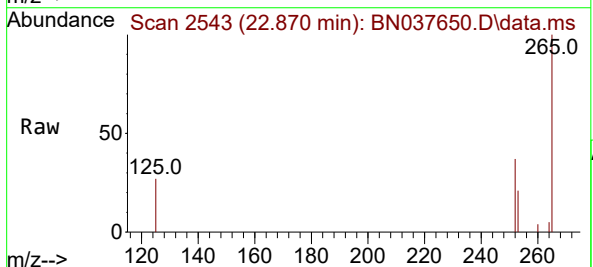
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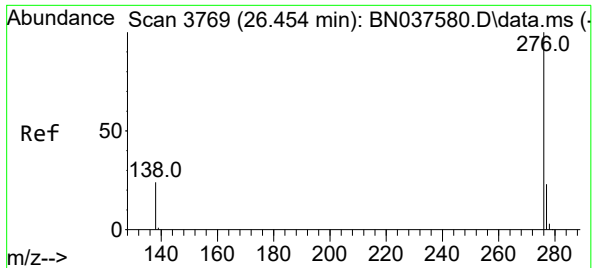
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#38
Benzo(k)fluoranthene
Concen: 0.030 ng
RT: 22.870 min Scan# 2543
Delta R.T. -0.012 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:252 Resp: 427
Ion Ratio Lower Upper
252 100
253 56.6 19.9 29.9#
125 73.3 15.0 22.6#





#41

Benzo(g,h,i)perylene

Concen: 0.027 ng

RT: 26.440 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN037650.D

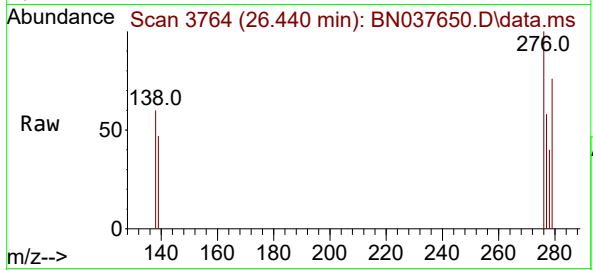
Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821



Tgt Ion:276 Resp: 31

Ion Ratio Lower Upper

276 100

277 57.6 21.0 31.4

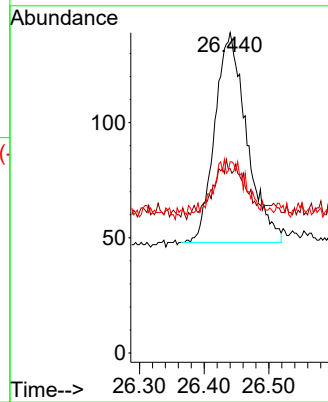
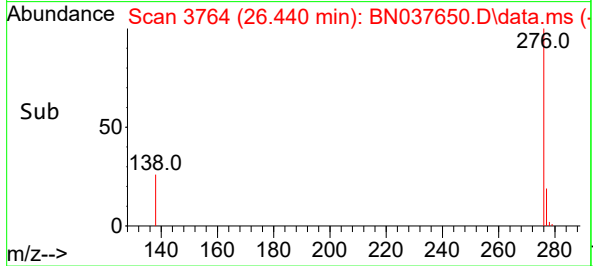
138 59.7 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/22/25
Client Sample ID:	RW8-SP303-20250821	SDG No.:	Q2937
Lab Sample ID:	Q2937-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 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
BN037651.D	1	08/27/25 08:45	08/28/25 11:18	PB169421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	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		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		144%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.71				
1146-65-2	Naphthalene-d8	4620	10.488				
15067-26-2	Acenaphthene-d10	2090	14.345				
1517-22-2	Phenanthrene-d10	4580	17.087				
1719-03-5	Chrysene-d12	3870	21.268				
1520-96-3	Perylene-d12	3370	23.496				

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\BN082825\
 Data File : BN037651.D
 Acq On : 28 Aug 2025 11:18
 Operator : RC/JU
 Sample : Q2937-02
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW8-SP303-20250821

Quant Time: Aug 28 12:21:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

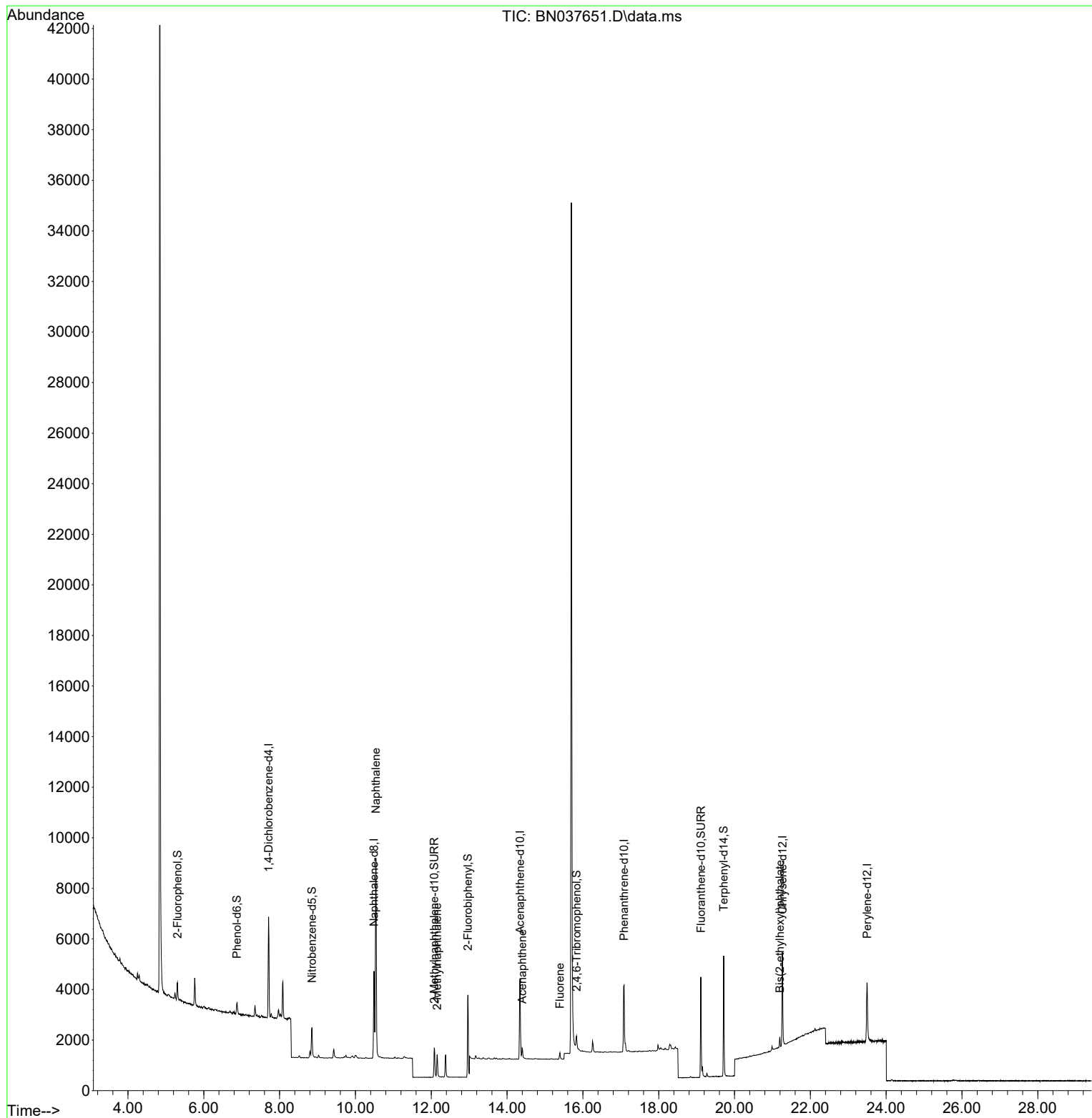
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	1972	0.400	ng	0.00
7) Naphthalene-d8	10.488	136	4616	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2088	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4583	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3870	0.400	ng	0.00
35) Perylene-d12	23.496	264	3373	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	585	0.131	ng	0.00
5) Phenol-d6	6.872	99	438	0.081	ng	0.00
8) Nitrobenzene-d5	8.854	82	1079	0.332	ng	0.00
11) 2-Methylnaphthalene-d10	12.081	152	1739	0.277	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	360	0.394	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	4316	0.357	ng	0.00
27) Fluoranthene-d10	19.113	212	4600	0.382	ng	0.00
31) Terphenyl-d14	19.713	244	4586	0.576	ng	-0.01
Target Compounds						
						Qvalue
9) Naphthalene	10.541	128	10663	0.868	ng	99
12) 2-Methylnaphthalene	12.157	142	677	0.088	ng	96
17) Acenaphthene	14.398	154	201	0.032	ng	97
18) Fluorene	15.393	166	175	0.021	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.196	149	512	0.096	ng	94

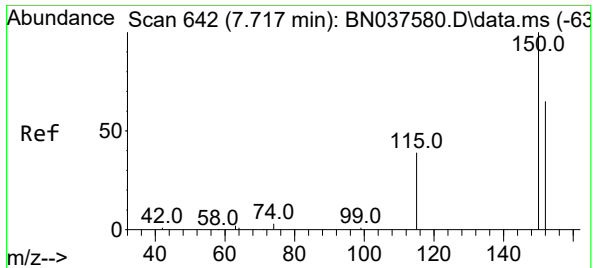
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037651.D
Acq On : 28 Aug 2025 11:18
Operator : RC/JU
Sample : Q2937-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

Quant Time: Aug 28 12:21:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

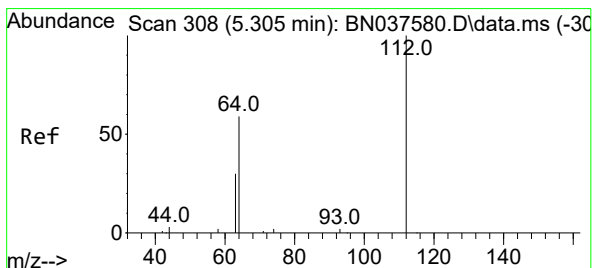
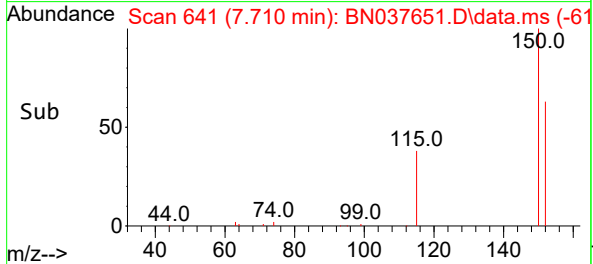
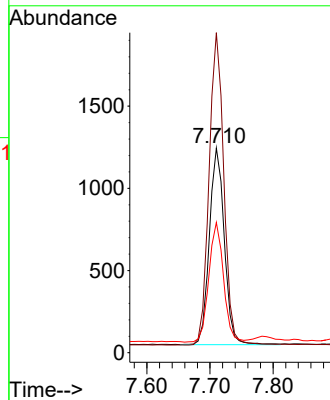
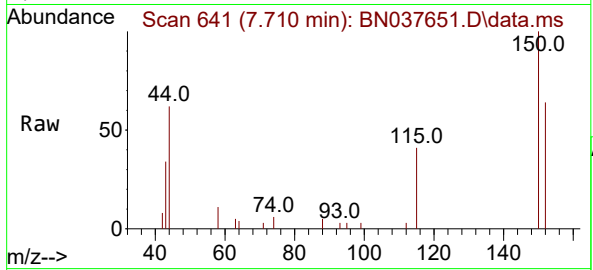




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 642
Delta R.T. -0.007 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

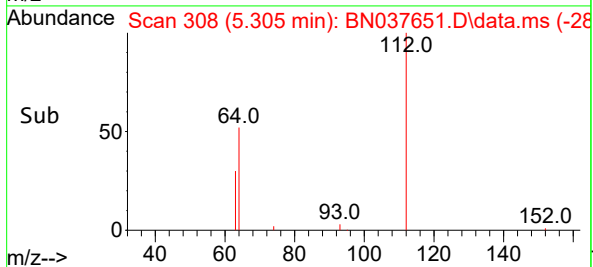
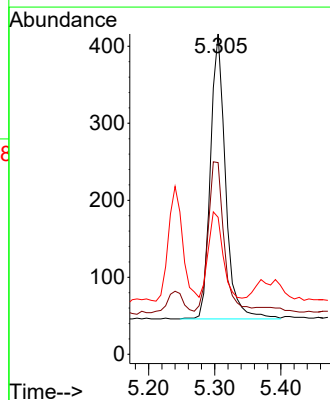
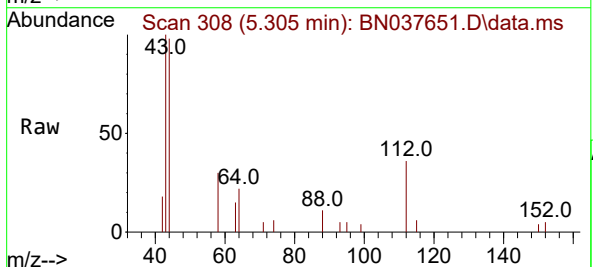
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

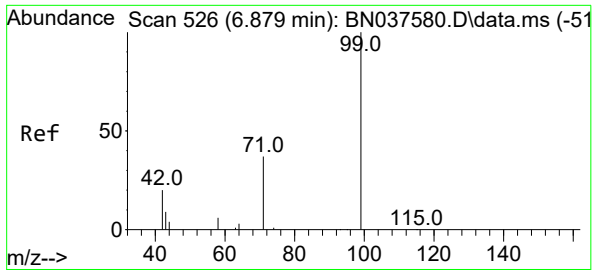
Tgt Ion:152 Resp: 1972
Ion Ratio Lower Upper
152 100
150 156.4 122.2 183.4
115 63.7 49.8 74.6



#4
2-Fluorophenol
Concen: 0.131 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion:112 Resp: 585
Ion Ratio Lower Upper
112 100
64 54.4 44.9 67.3
63 31.3 23.4 35.2

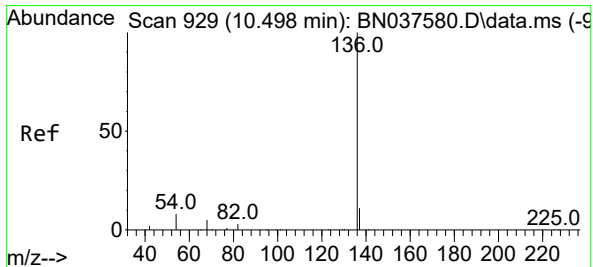
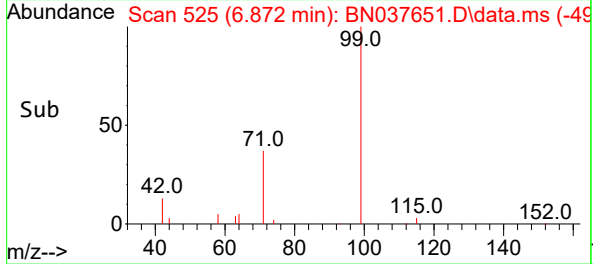
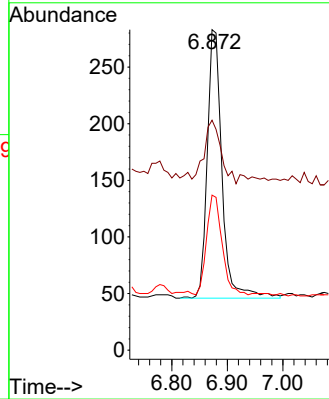
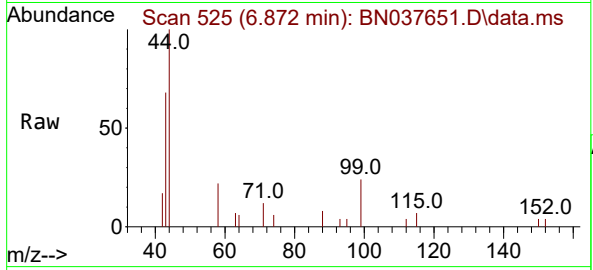




#5
Phenol-d6
Concen: 0.081 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

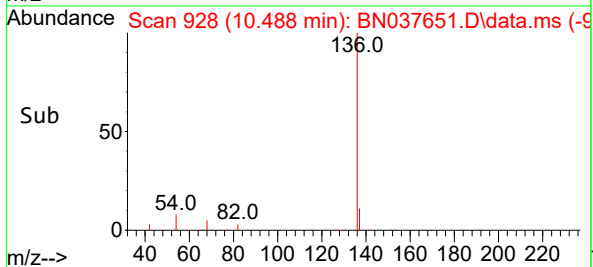
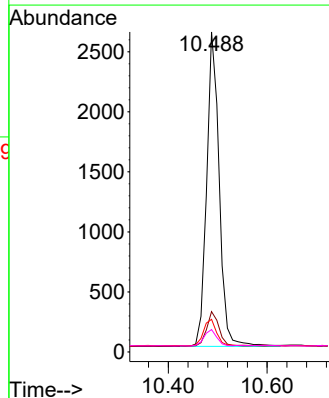
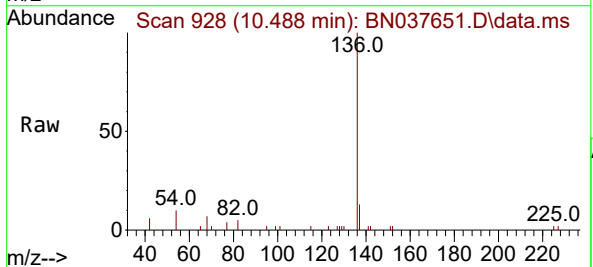
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

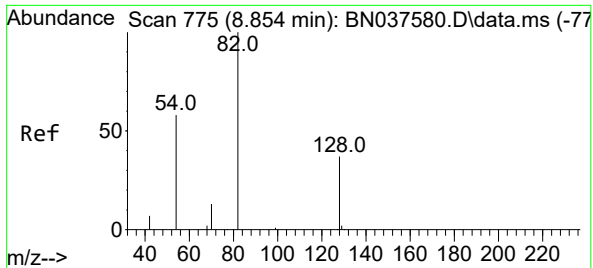
Tgt Ion: 99 Resp: 438
Ion Ratio Lower Upper
99 100
42 26.9 18.5 27.7
71 38.8 28.6 42.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 928
Delta R.T. -0.010 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion: 136 Resp: 4616
Ion Ratio Lower Upper
136 100
137 12.6 9.5 14.3
54 10.2 7.3 10.9
68 7.0 5.1 7.7

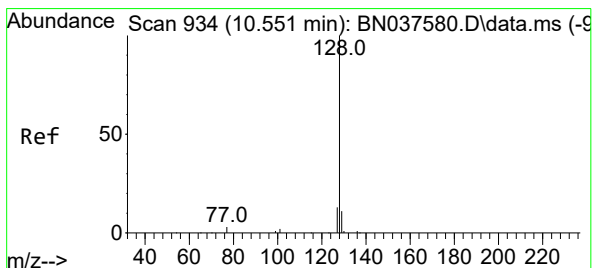
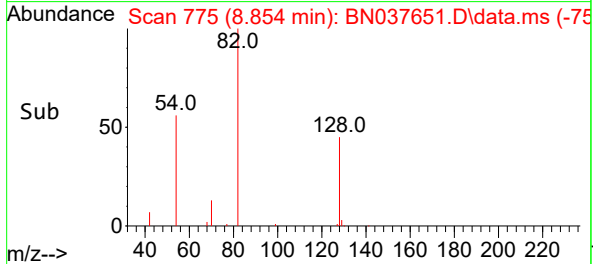
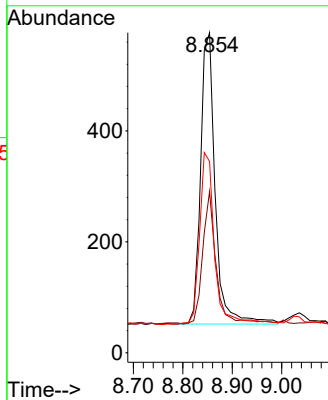
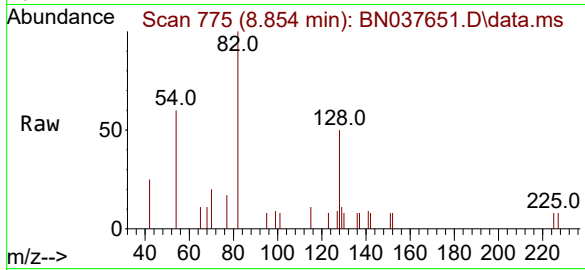




#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.854 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

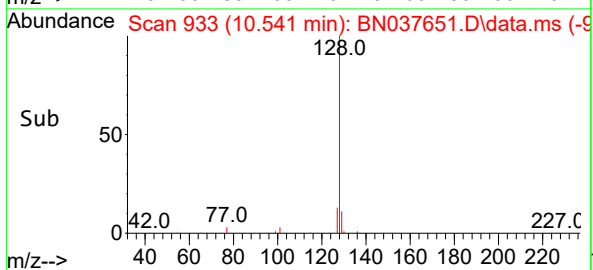
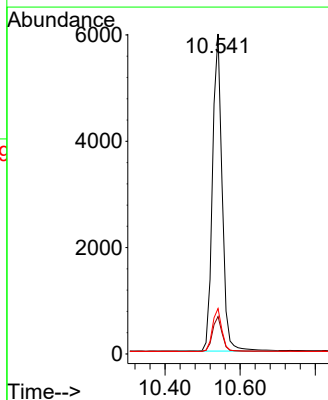
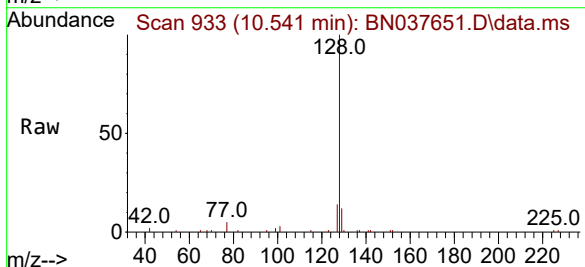
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

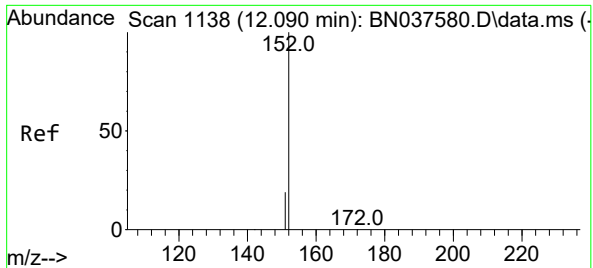
Tgt Ion: 82 Resp: 1079
Ion Ratio Lower Upper
82 100
128 50.4 32.6 48.8#
54 59.8 48.9 73.3



#9
Naphthalene
Concen: 0.868 ng
RT: 10.541 min Scan# 933
Delta R.T. -0.010 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion: 128 Resp: 10663
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 14.2 11.5 17.3

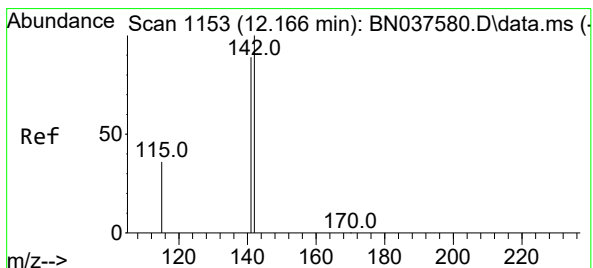
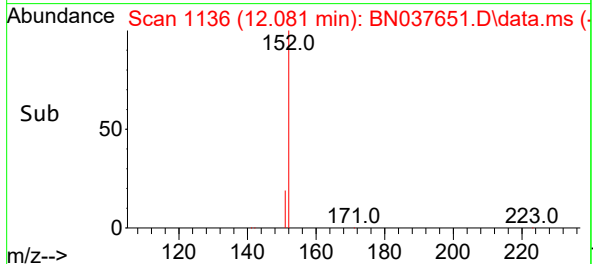
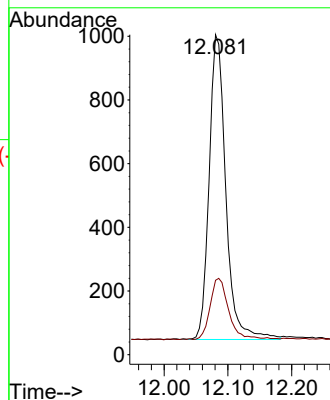
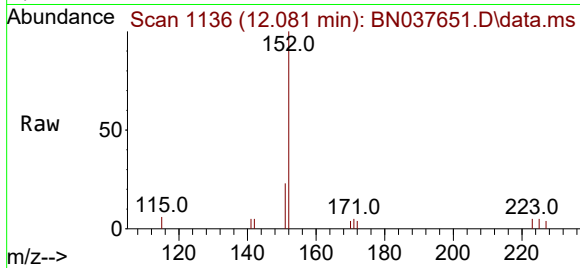




#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 12.081 min Scan# 1136
Delta R.T. -0.010 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

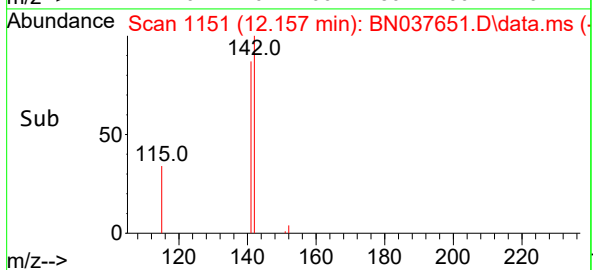
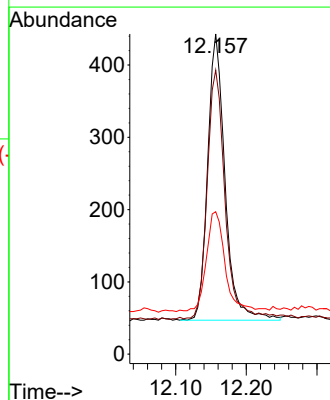
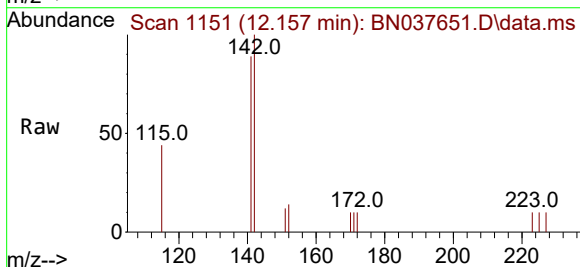
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

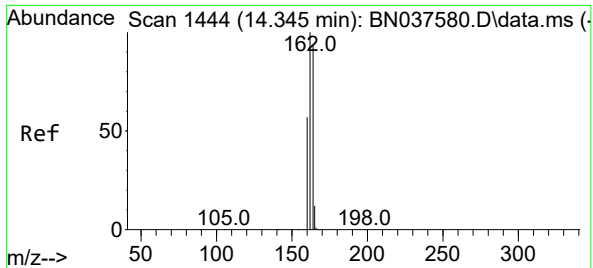
Tgt Ion:152 Resp: 1739
Ion Ratio Lower Upper
152 100
151 22.1 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.088 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion:142 Resp: 677
Ion Ratio Lower Upper
142 100
141 88.7 71.4 107.0
115 44.5 30.2 45.4

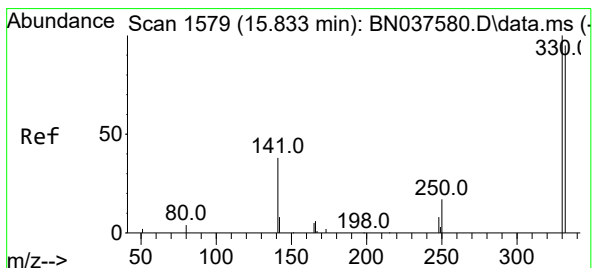
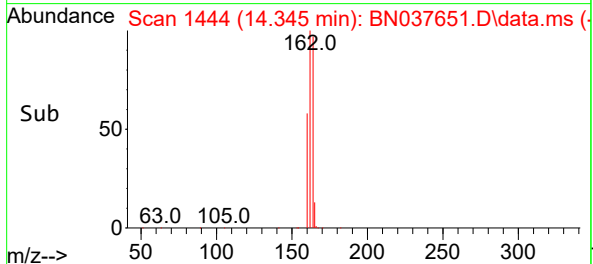
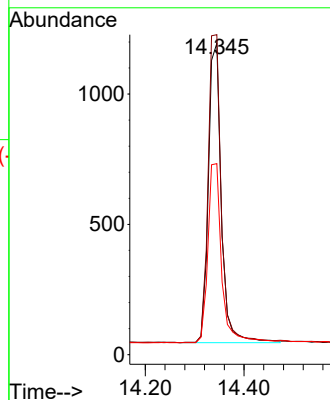
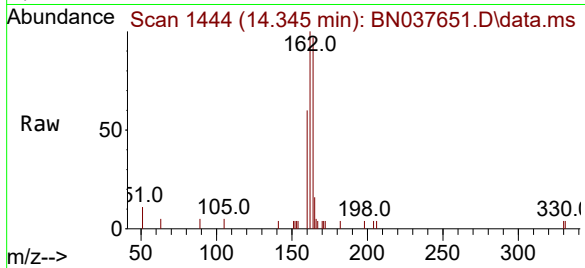




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

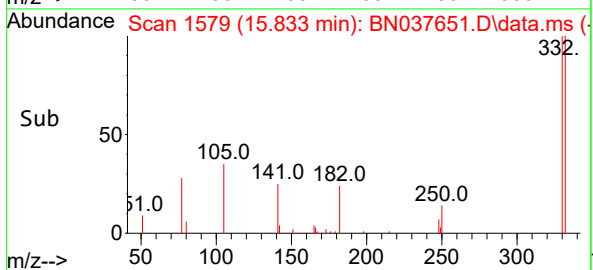
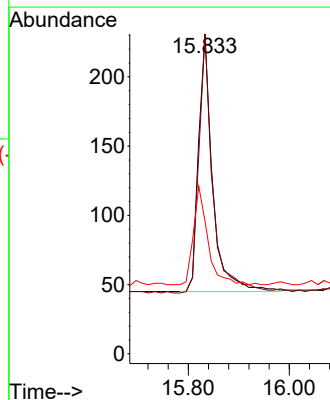
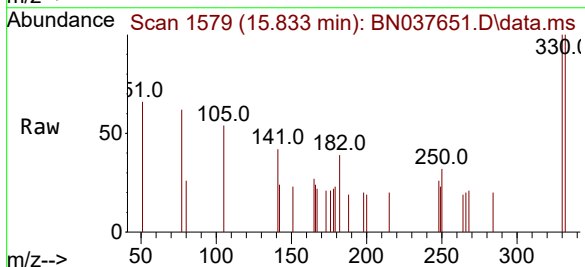
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

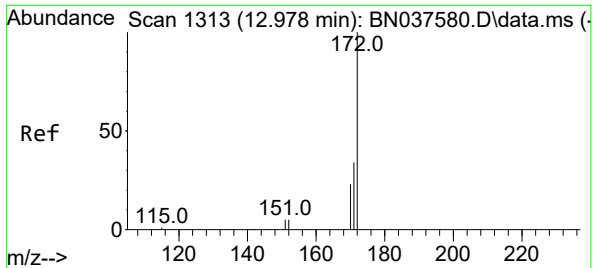
Tgt Ion	164	Resp	2088
Ion Ratio	Lower	Upper	
164	100		
162	102.8	85.5	128.3
160	61.3	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.394 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion	330	Resp	360
Ion Ratio	Lower	Upper	
330	100		
332	100.0	77.4	116.0
141	40.3	30.9	46.3

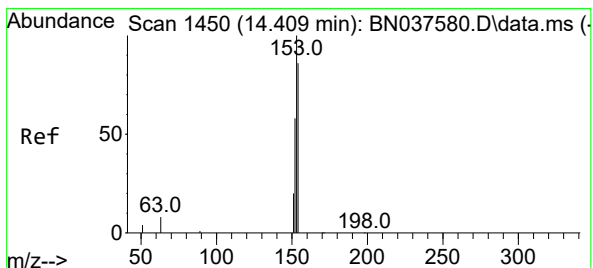
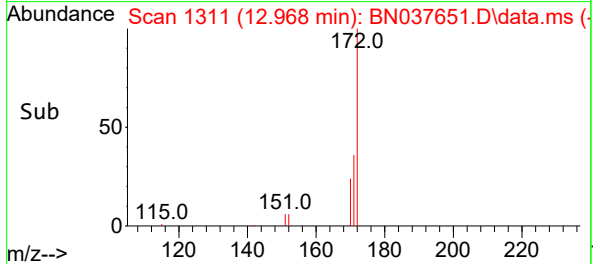
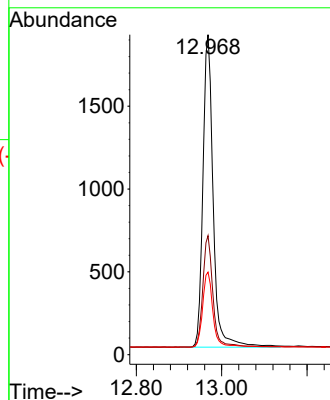
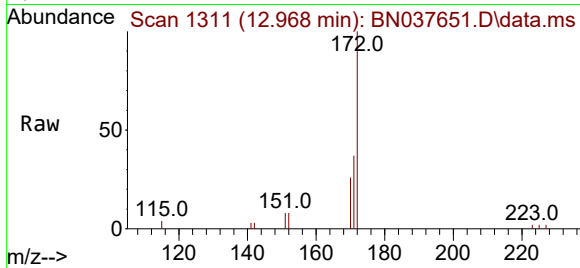




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

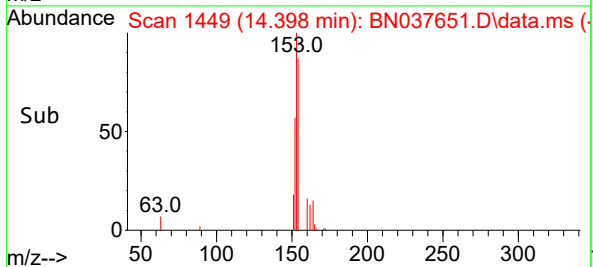
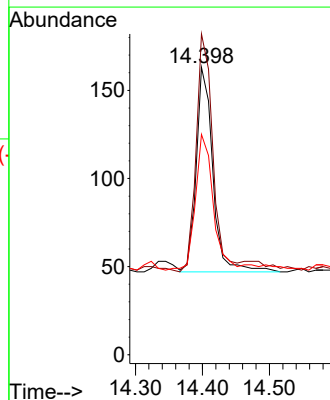
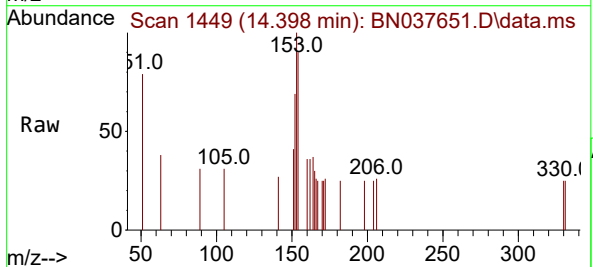
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

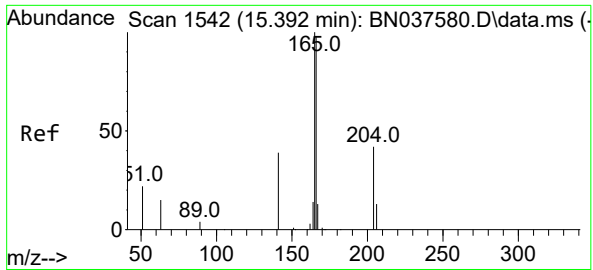
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.2	42.4
170	25.8	19.2	28.8



#17
Acenaphthene
Concen: 0.032 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.010 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.9	90.6	135.8
152	70.6	54.9	82.3

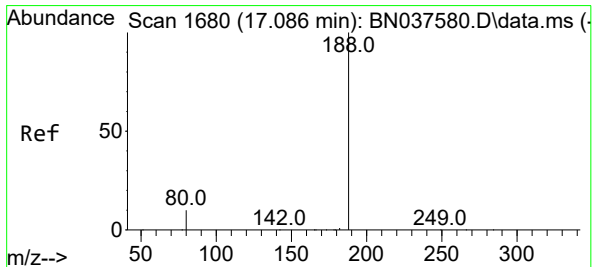
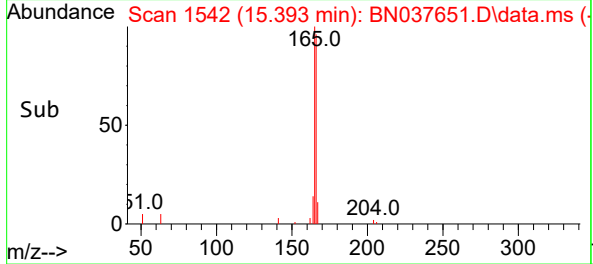
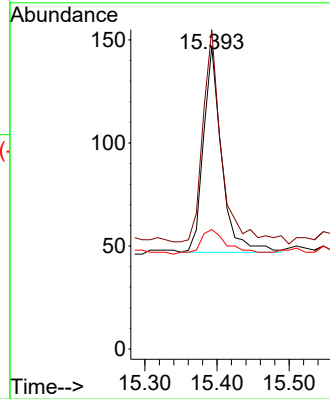
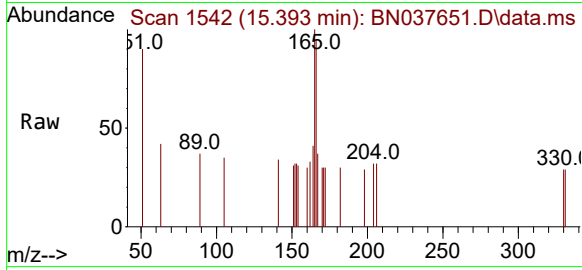




#18
Fluorene
Concen: 0.021 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

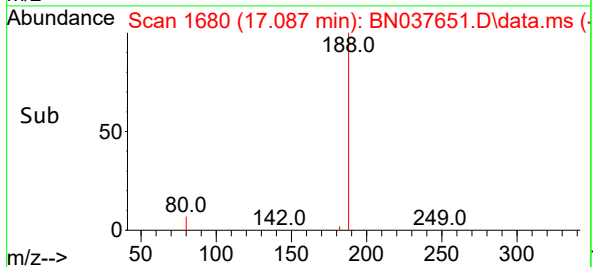
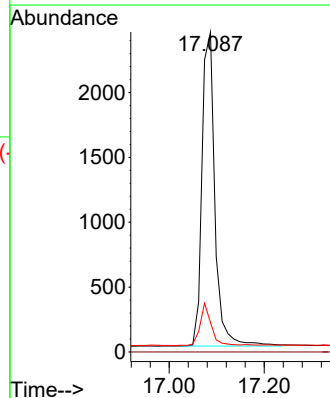
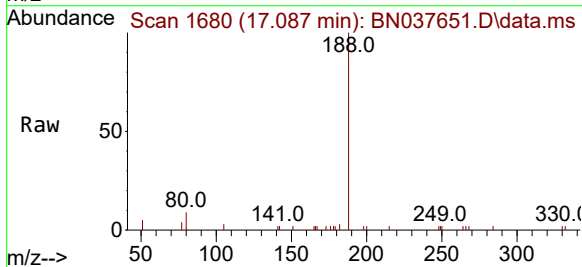
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

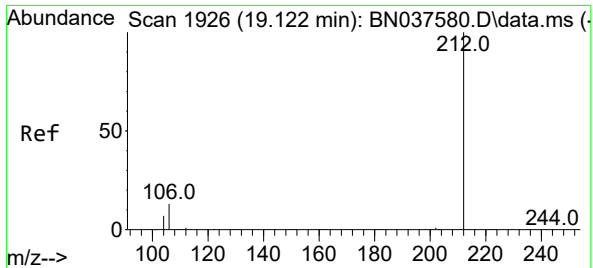
Tgt Ion:166 Resp: 175
Ion Ratio Lower Upper
166 100
165 108.6 78.9 118.3
167 17.7 10.7 16.1#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion:188 Resp: 4583
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 9.1 13.7

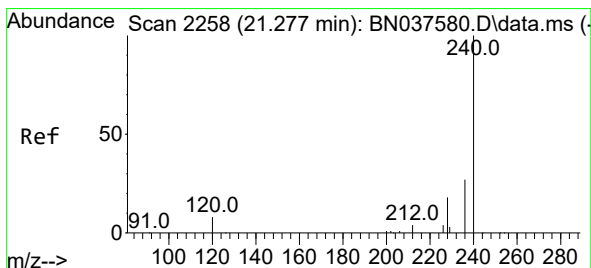
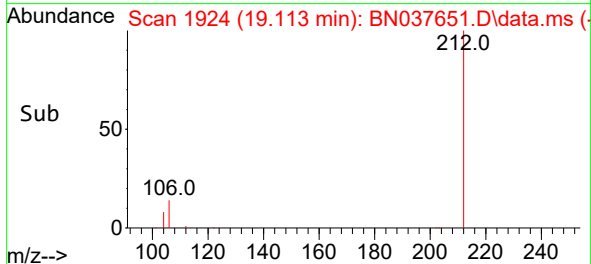
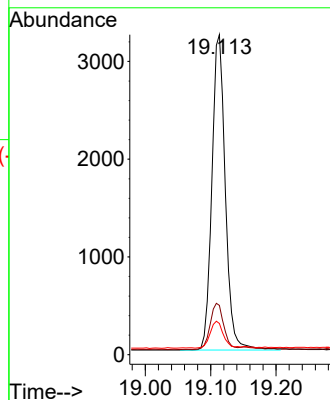
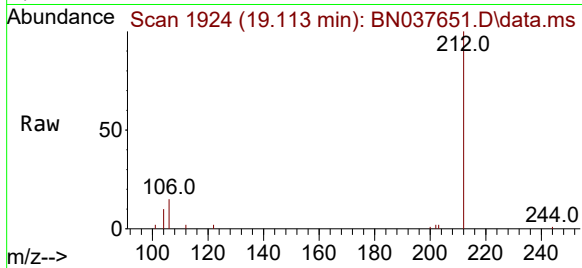




#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.009 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

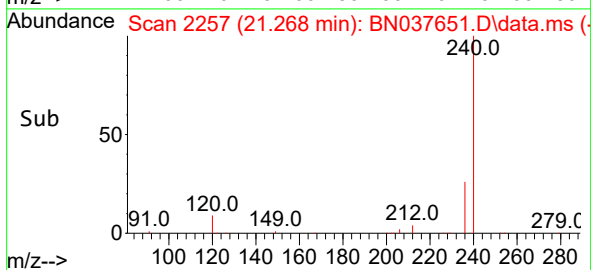
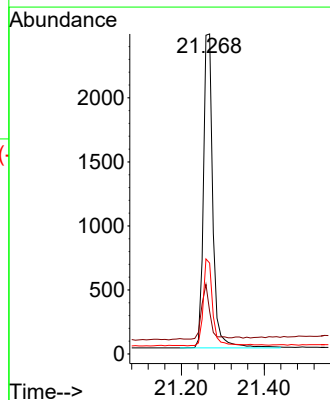
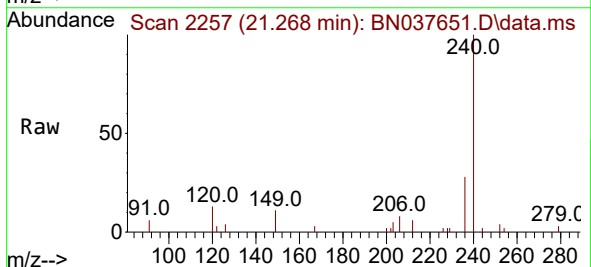
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

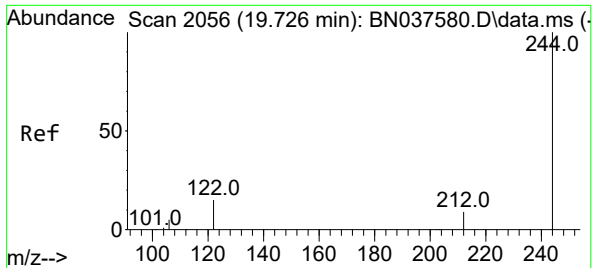
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.5	17.3
104	8.4	6.6	9.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.009 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.3	8.9	13.3
236	28.4	22.6	33.8

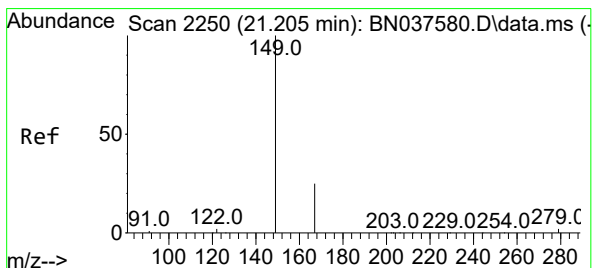
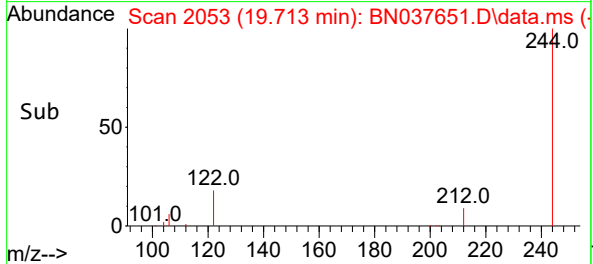
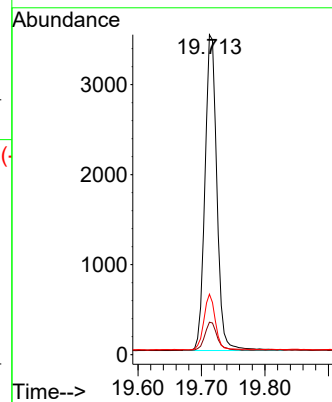
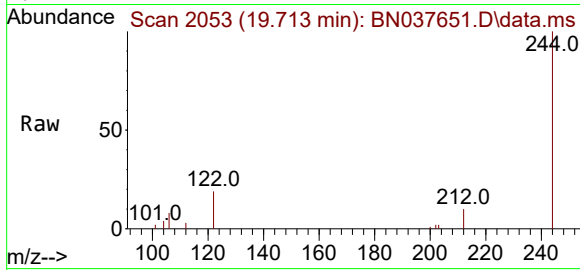




#31
Terphenyl-d14
Concen: 0.576 ng
RT: 19.713 min Scan# 2053
Delta R.T. -0.014 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

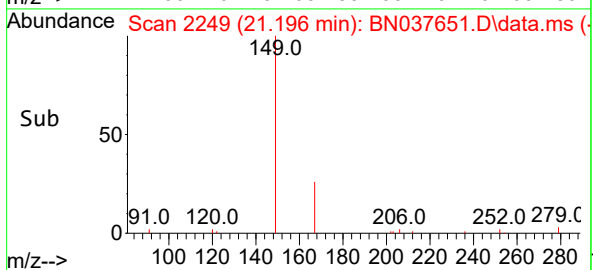
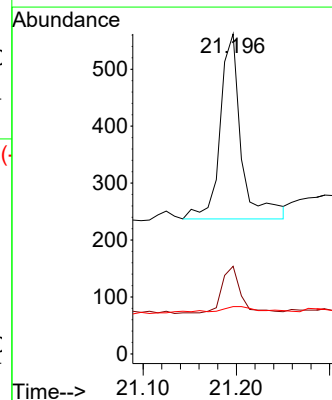
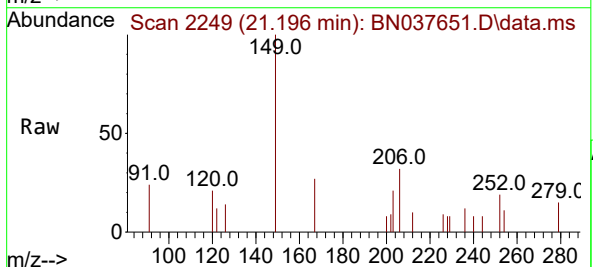
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250821

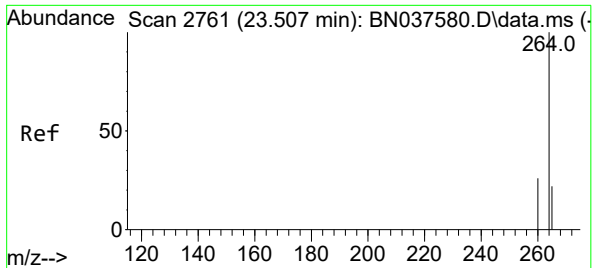
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.2	12.2
122	18.9	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.096 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.009 min
Lab File: BN037651.D
Acq: 28 Aug 2025 11:18

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.1	20.5	30.7
279	3.5	2.6	4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.496 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN037651.D

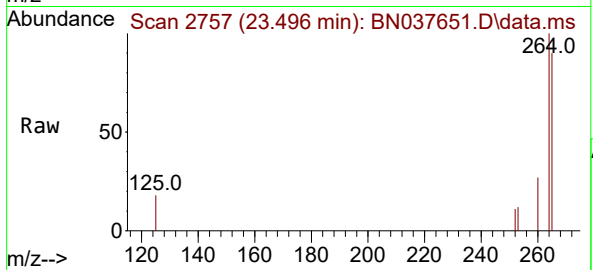
Acq: 28 Aug 2025 11:18

Instrument :

BNA_N

ClientSampleId :

RW8-SP303-20250821



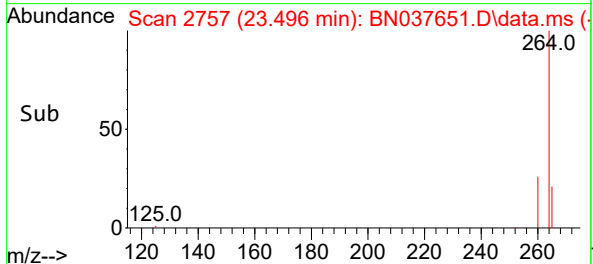
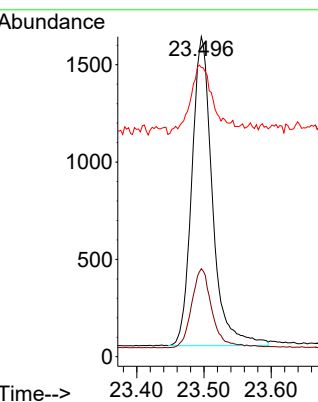
Tgt Ion:264 Resp: 3373

Ion	Ratio	Lower	Upper
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264	100		
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260	27.5	21.6	32.4
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265	90.4	48.2	72.4
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CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN081225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Aug 13 05:00:58 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037578.D 0.2 =BN037579.D 0.4 =BN037580.D 0.8 =BN037581.D 1.6 =BN037582.D 3.2 =BN037583.D 5 =BN037584.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	0.413	0.395	0.368	0.397	0.375	0.348	0.383		6.08
3)	n-Nitrosodimet...	0.471	0.488	0.471	0.493	0.503	0.508	0.489		3.19
4) S	2-Fluorophenol	0.922	0.945	0.888	0.823	0.886	0.906	0.977	0.907	5.41
5) S	Phenol-d6	1.045	1.051	1.044	0.983	1.198	1.117	1.201	1.091	7.66
6)	bis(2-Chloroet...	0.935	0.987	0.976	0.936	1.020	1.008	1.022	0.983	3.75
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.270	0.257	0.262	0.264	0.292	0.301	0.326	0.282	9.03
9)	Naphthalene	1.044	1.050	1.037	1.012	1.089	1.096	1.127	1.065	3.78
10)	Hexachlorobuta...	0.252	0.258	0.262	0.253	0.267	0.264	0.265	0.260	2.22
11) SURR2	Methylnaphth...	0.488	0.492	0.508	0.493	0.543	0.578	0.705	0.544	14.39
12)	2-Methylnaphth...	0.589	0.631	0.635	0.629	0.701	0.731	0.760	0.668	9.39
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.139	0.149	0.156	0.160	0.185	0.203	0.234	0.175	19.39
15) S	2-Fluorobiphenyl	2.226	2.243	2.300	2.251	2.341	2.391	2.440	2.313	3.50
16)	Acenaphthylene	1.740	1.760	1.710	1.653	1.850	1.858	1.980	1.793	6.15
17)	Acenaphthene	1.144	1.150	1.172	1.154	1.283	1.286	1.348	1.220	6.86
18)	Fluorene	1.466	1.510	1.524	1.521	1.686	1.693	1.770	1.596	7.38
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.042	0.046	0.047	0.061	0.070		0.053		22.37
21)	4-Bromophenyl-...	0.226	0.236	0.234	0.237	0.265	0.271	0.292	0.251	9.77
22)	Hexachlorobenzene	0.360	0.360	0.356	0.332	0.364	0.354	0.370	0.356	3.37
23)	Atrazine	0.127	0.126	0.130	0.134	0.160	0.176		0.142	14.76
24)	Pentachlorophenol		0.108	0.113	0.113	0.139	0.152		0.125	15.36
25)	Phenanthrene	1.146	1.162	1.170	1.138	1.281	1.269	1.347	1.216	6.72
26)	Anthracene	0.950	0.985	0.995	0.988	1.145	1.186	1.286	1.077	11.93
27) SURR	Fluoranthene-d10	0.932	0.966	0.954	0.935	1.050	1.110	1.419	1.052	16.61
28)	Fluoranthene	1.241	1.264	1.299	1.291	1.503	1.533	1.648	1.397	11.53
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.539	1.486	1.464	1.403	1.502	1.520	1.552	1.495	3.38
31) S	Terphenyl-d14	0.814	0.801	0.796	0.763	0.833	0.853	0.901	0.823	5.45
32)	Benzo(a)anthra...	1.266	1.275	1.263	1.253	1.351	1.458	1.487	1.336	7.40
33)	Chrysene	1.547	1.515	1.433	1.379	1.511	1.489	1.551	1.489	4.21
34)	Bis(2-ethylhex...		0.518	0.522	0.483	0.522	0.593	0.671	0.551	12.47
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN081225.M

36)	Indeno(1,2,3-c...	1.446	1.462	1.612	1.568	1.816	1.883	2.011	1.686	13.01
37)	Benzo(b)fluora...	1.351	1.375	1.338	1.432	1.615	1.674	1.825	1.516	12.52
38)	Benzo(k)fluora...	1.597	1.580	1.651	1.628	1.821	1.797	1.898	1.710	7.36
39) C	Benzo(a)pyrene	1.146	1.136	1.149	1.157	1.322	1.382	1.508	1.257	11.77
40)	Dibenzo(a,h)an...	1.023	1.118	1.222	1.215	1.439	1.516	1.621	1.308	16.85
41)	Benzo(g,h,i)pe...	1.207	1.274	1.262	1.261	1.467	1.532	1.643	1.378	12.17

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037578.D
 Acq On : 12 Aug 2025 16:26
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Aug 13 04:47:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

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

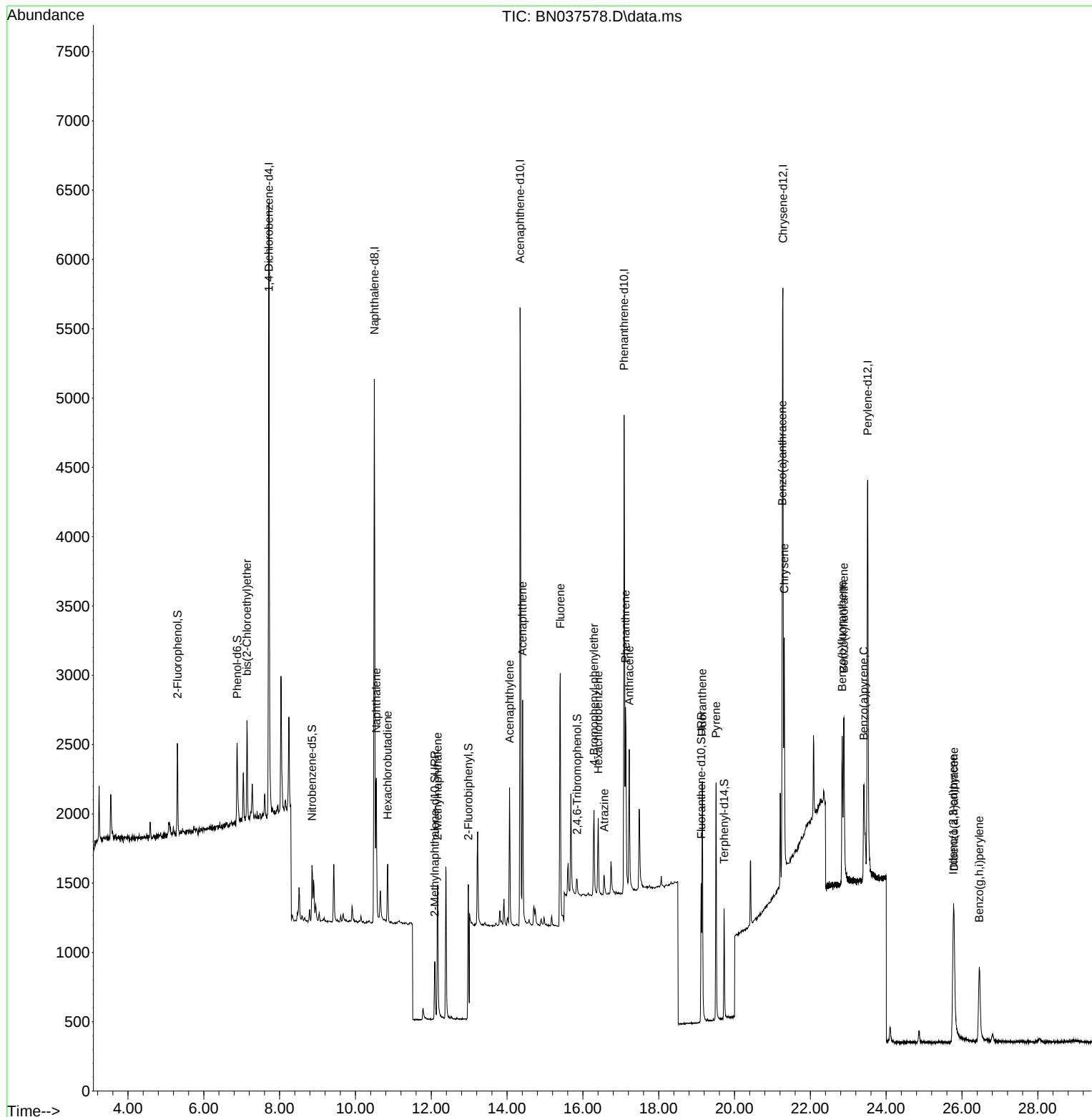
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2217	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5472	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2625	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5296	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4146	0.400	ng	# 0.00
35) Perylene-d12	23.514	264	4132	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	511	0.102	ng	0.00
5) Phenol-d6	6.879	99	579	0.096	ng	0.00
8) Nitrobenzene-d5	8.854	82	369	0.096	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	667	0.090	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	91	0.079	ng	0.01
15) 2-Fluorobiphenyl	12.978	172	1461	0.096	ng	0.00
27) Fluoranthene-d10	19.123	212	1234	0.089	ng	0.00
31) Terphenyl-d14	19.726	244	844	0.099	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.139	93	518	0.095	ng	94
9) Naphthalene	10.552	128	1428	0.098	ng	# 89
10) Hexachlorobutadiene	10.851	225	345	0.097	ng	# 99
12) 2-Methylnaphthalene	12.167	142	806	0.088	ng	94
16) Acenaphthylene	14.067	152	1142	0.097	ng	99
17) Acenaphthene	14.409	154	751	0.094	ng	95
18) Fluorene	15.403	166	962	0.092	ng	99
21) 4-Bromophenyl-phenylether	16.292	248	299	0.090	ng	90
22) Hexachlorobenzene	16.404	284	476	0.101	ng	99
23) Atrazine	16.565	200	168	0.089	ng	# 76
25) Phenanthrene	17.124	178	1517	0.094	ng	99
26) Anthracene	17.223	178	1258	0.088	ng	100
28) Fluoranthene	19.150	202	1643	0.089	ng	99
30) Pyrene	19.513	202	1595	0.103	ng	100
32) Benzo(a)anthracene	21.259	228	1312	0.095	ng	94
33) Chrysene	21.313	228	1603	0.104	ng	95
36) Indeno(1,2,3-cd)pyrene	25.771	276	1494	0.086	ng	99
37) Benzo(b)fluoranthene	22.841	252	1396	0.089	ng	# 74
38) Benzo(k)fluoranthene	22.885	252	1650	0.093	ng	# 72
39) Benzo(a)pyrene	23.411	252	1184	0.091	ng	# 64
40) Dibenzo(a,h)anthracene	25.791	278	1057	0.078	ng	# 72
41) Benzo(g,h,i)perylene	26.458	276	1247	0.088	ng	# 84

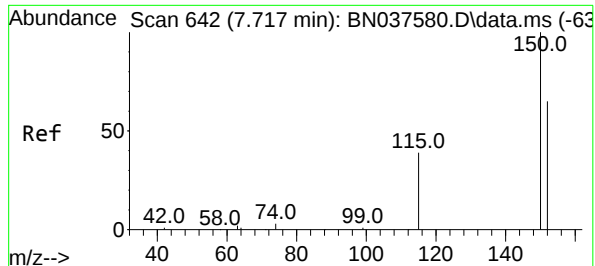
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Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

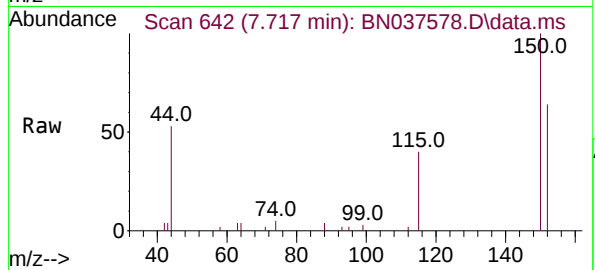
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration



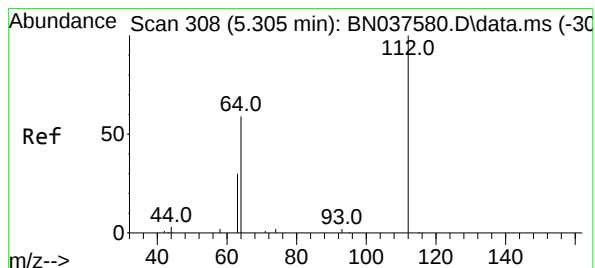
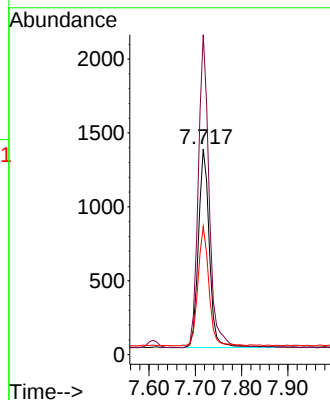
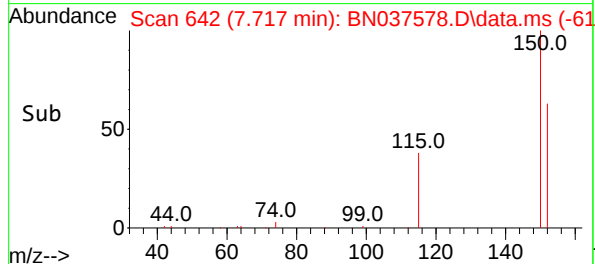


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 642
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

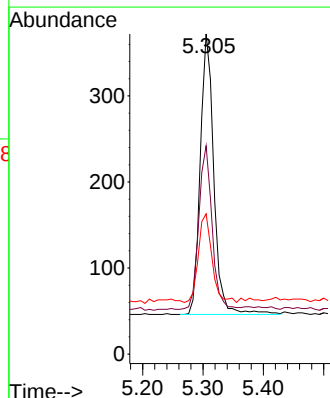
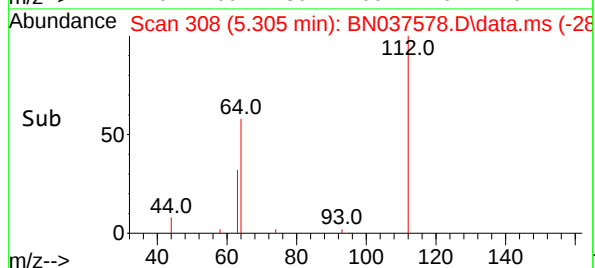
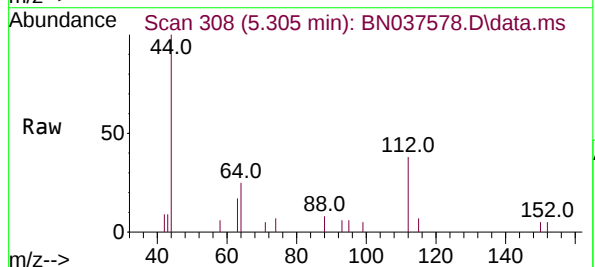


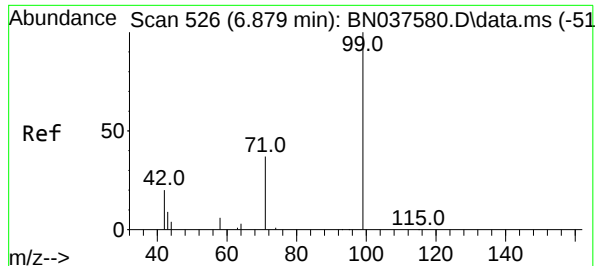
Tgt Ion:152 Resp: 2217
Ion Ratio Lower Upper
152 100
150 155.6 122.2 183.4
115 62.3 49.8 74.6



#4
2-Fluorophenol
Concen: 0.102 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:112 Resp: 511
Ion Ratio Lower Upper
112 100
64 56.6 44.9 67.3
63 31.3 23.4 35.2

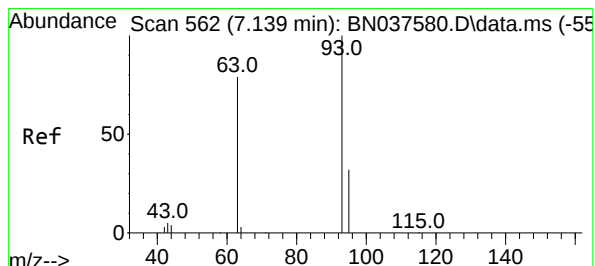
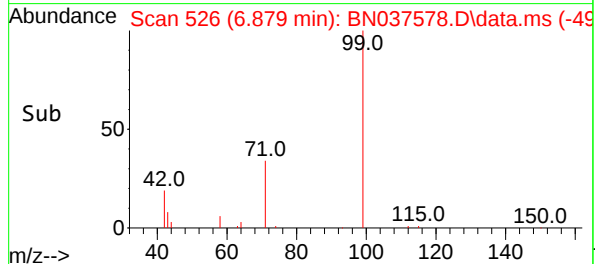
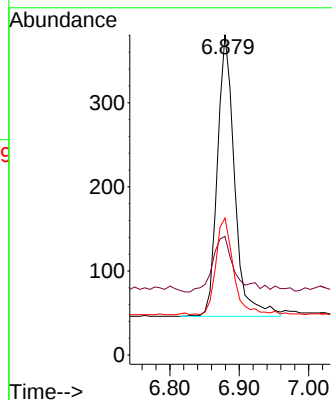
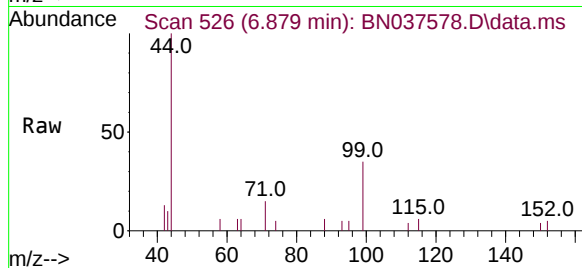




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

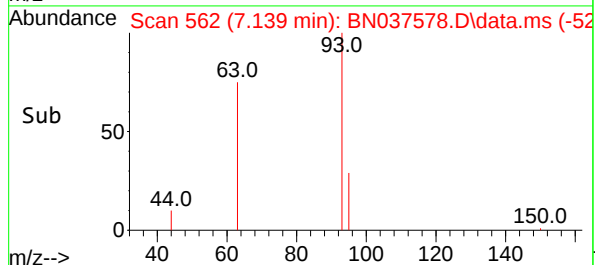
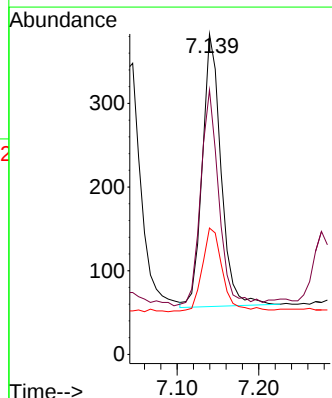
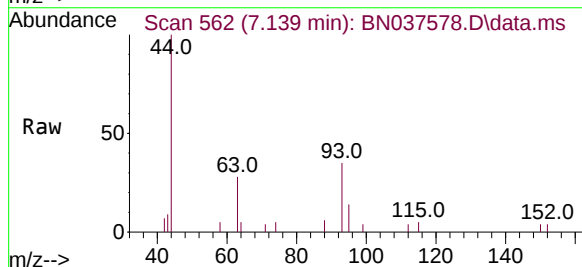
Instrument :
BNA_N
ClientSampleId :
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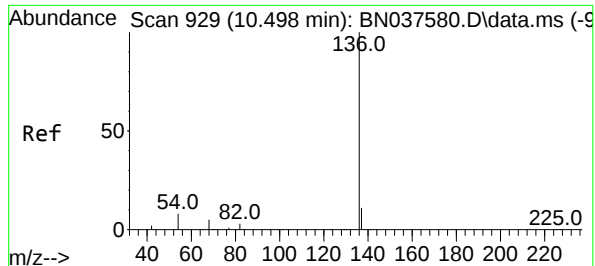
Tgt Ion: 99 Resp: 579
Ion Ratio Lower Upper
99 100
42 26.9 18.5 27.7
71 35.4 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.095 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion: 93 Resp: 518
Ion Ratio Lower Upper
93 100
63 78.0 58.0 87.0
95 33.8 24.9 37.3

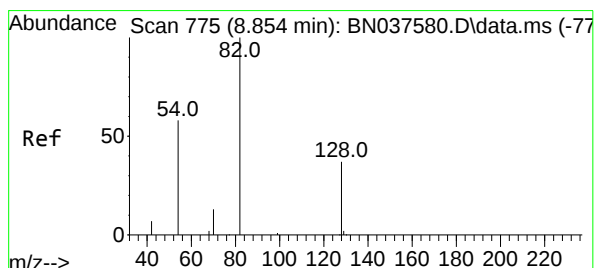
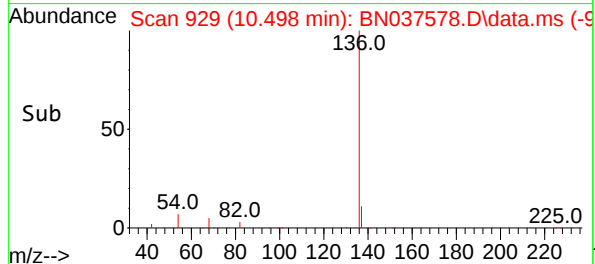
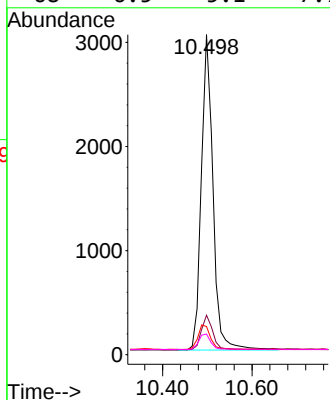
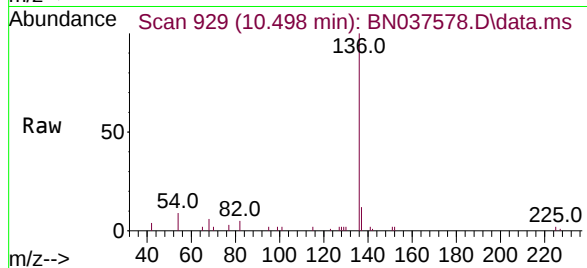




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

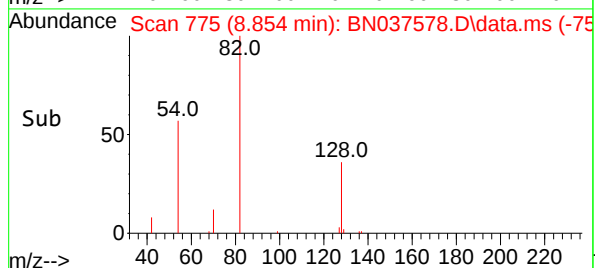
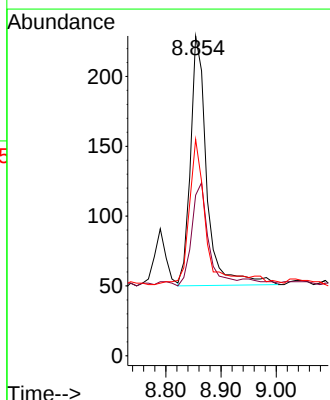
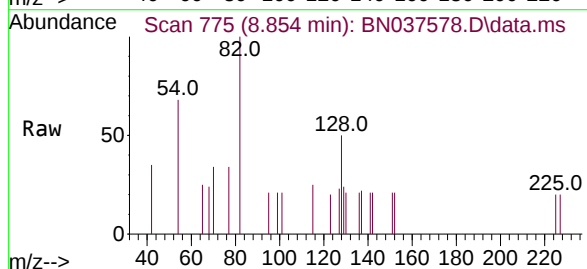
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ClientSampleId :
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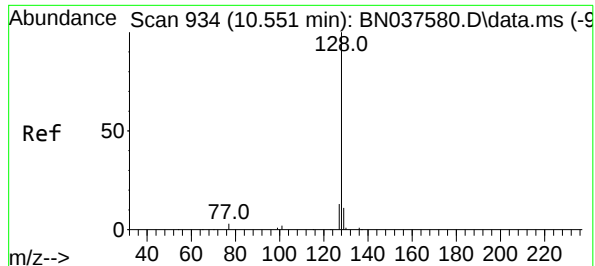
Tgt Ion:	136	Resp:	5472
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.5	14.3
54	8.8	7.3	10.9
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.096 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:	82	Resp:	369
Ion	Ratio	Lower	Upper
82	100		
128	50.2	32.6	48.8#
54	67.7	48.9	73.3

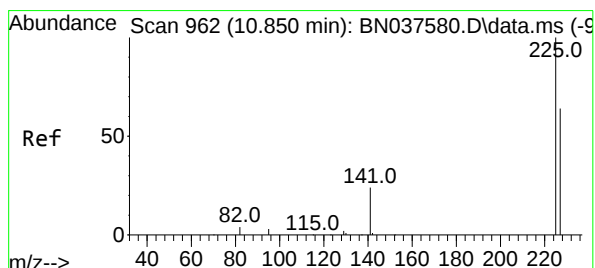
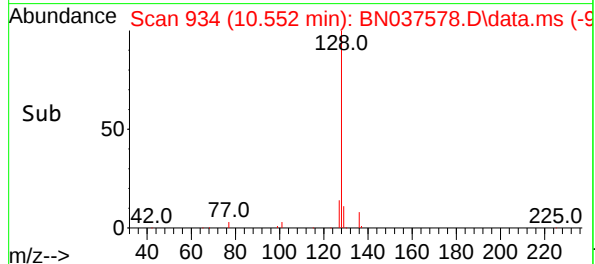
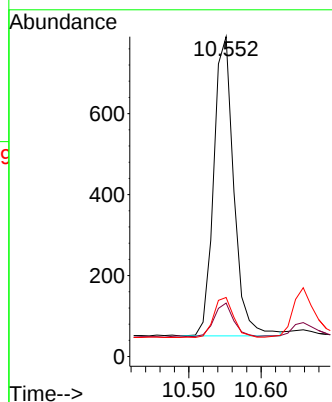
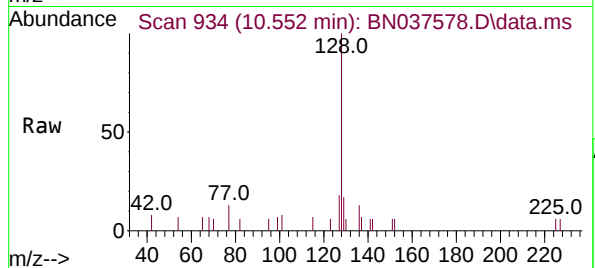




#9
Naphthalene
Concen: 0.098 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

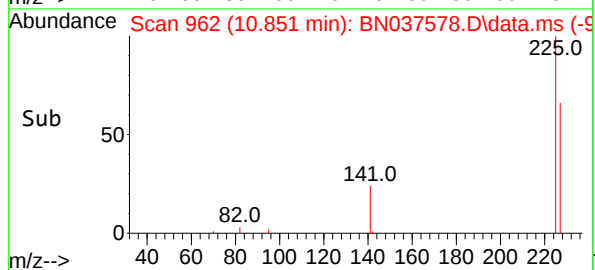
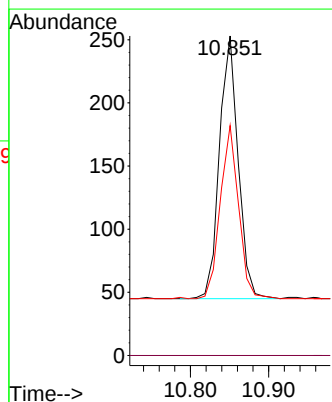
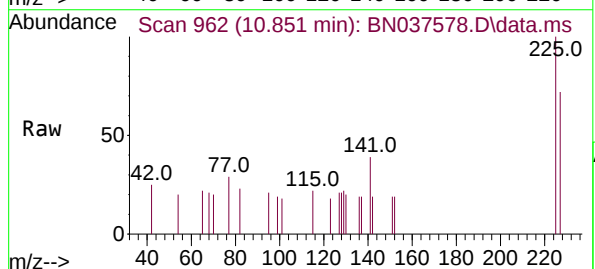
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BNA_N
ClientSampleId :
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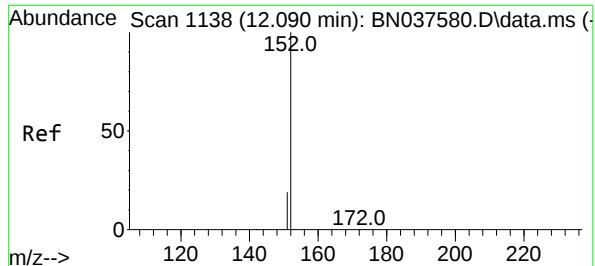
Tgt Ion:128 Resp: 1428
Ion Ratio Lower Upper
128 100
129 16.7 9.8 14.6#
127 18.5 11.5 17.3#



#10
Hexachlorobutadiene
Concen: 0.097 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:225 Resp: 345
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 50.8 76.2

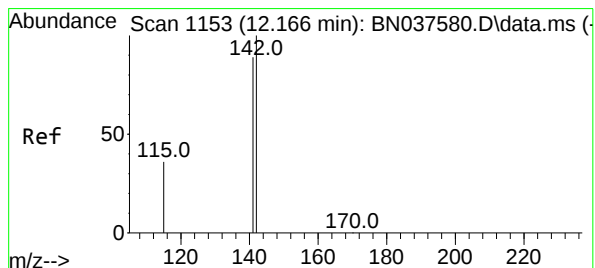
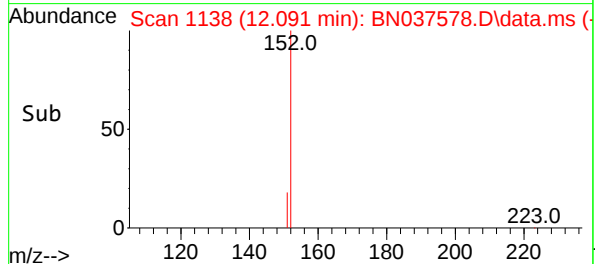
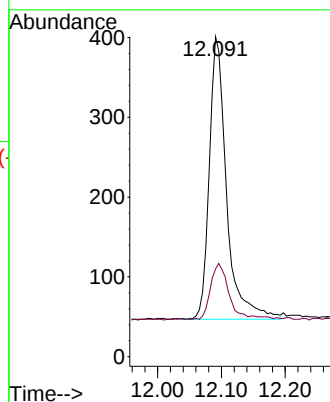
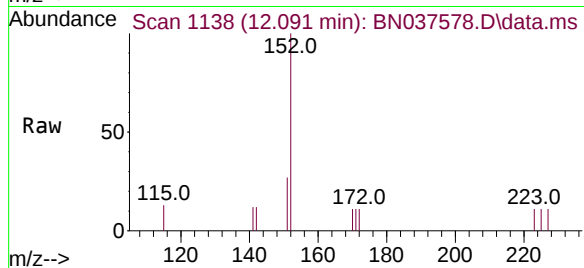




#11
2-Methylnaphthalene-d10
Concen: 0.090 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

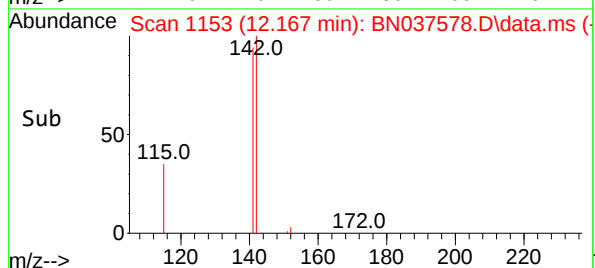
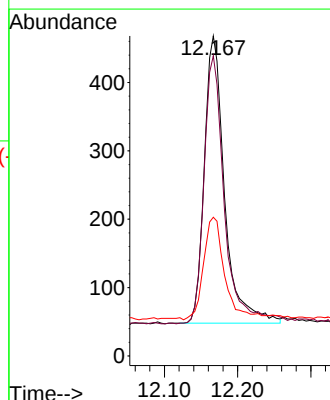
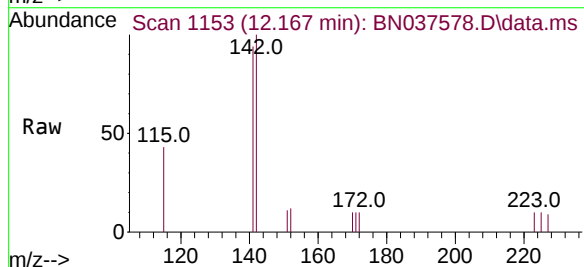
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

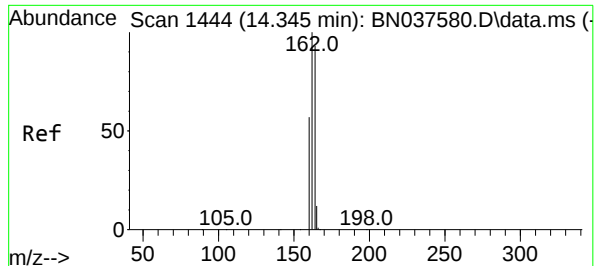
Tgt Ion:152 Resp: 667
Ion Ratio Lower Upper
152 100
151 21.1 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.088 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:142 Resp: 806
Ion Ratio Lower Upper
142 100
141 93.8 71.4 107.0
115 43.4 30.2 45.4

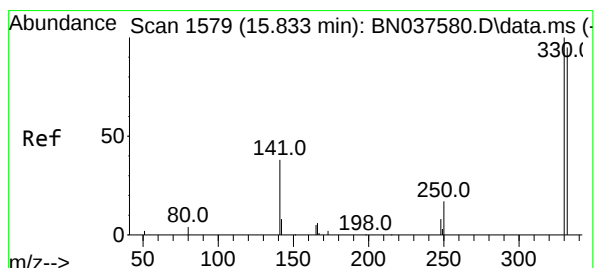
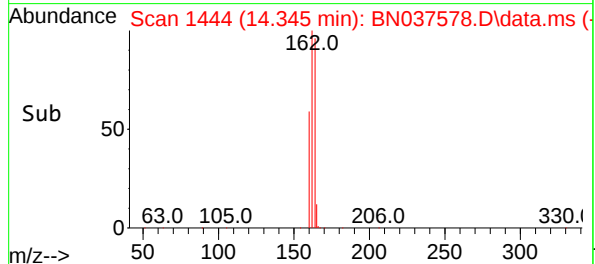
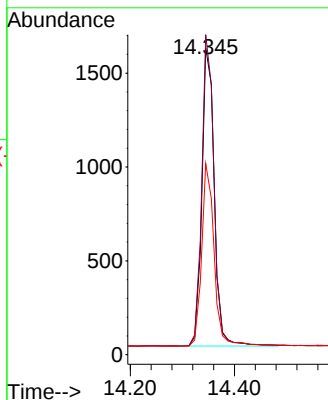
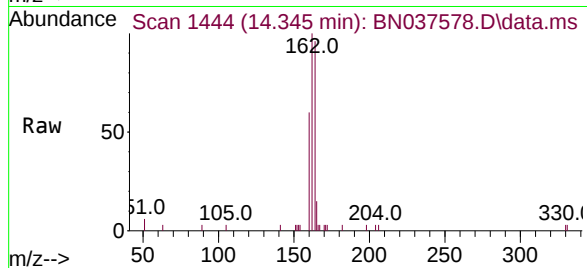




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

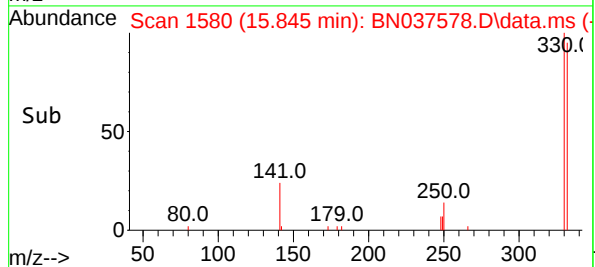
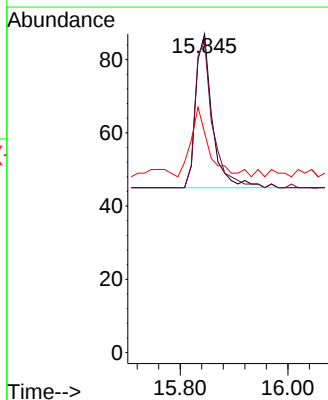
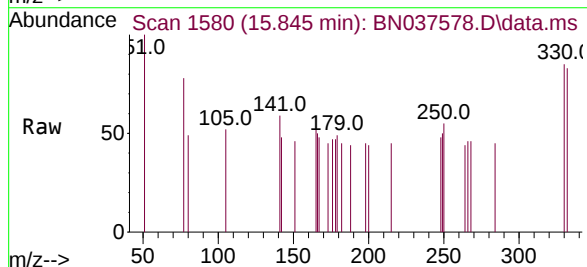
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

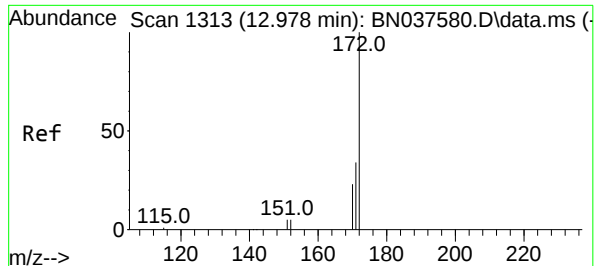
Tgt Ion:164 Resp: 2625
Ion Ratio Lower Upper
164 100
162 104.3 85.5 128.3
160 62.3 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.079 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.013 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:330 Resp: 91
Ion Ratio Lower Upper
330 100
332 101.1 77.4 116.0
141 47.3 30.9 46.3#

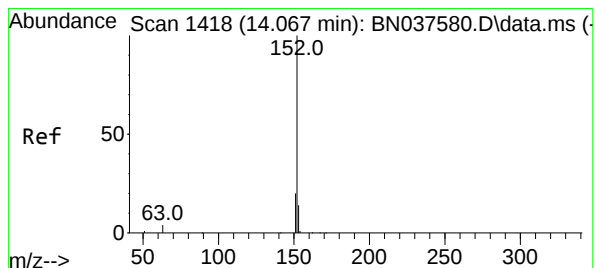
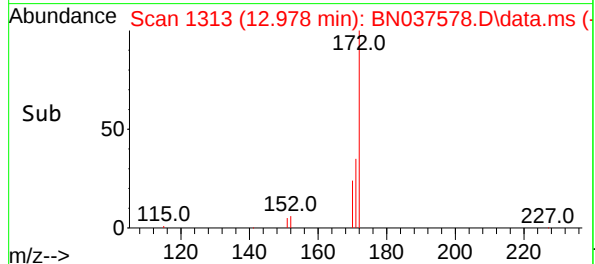
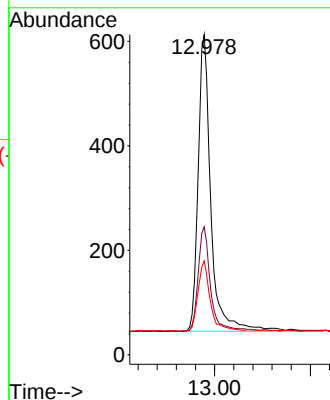
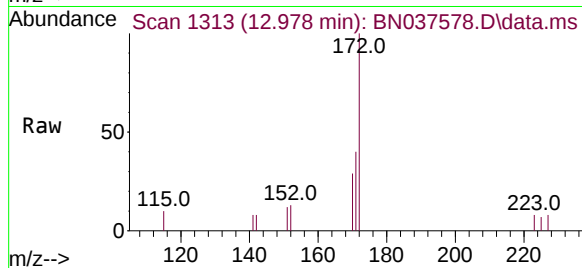




#15
2-Fluorobiphenyl
Concen: 0.096 ng
RT: 12.978 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

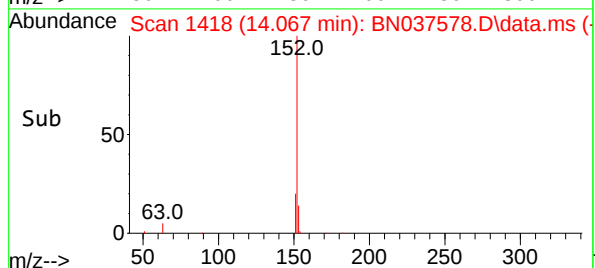
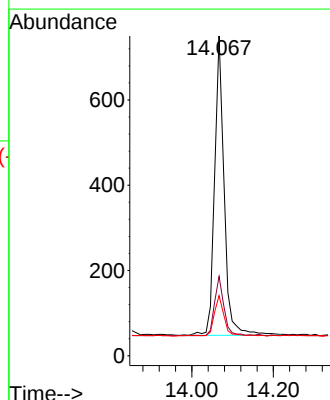
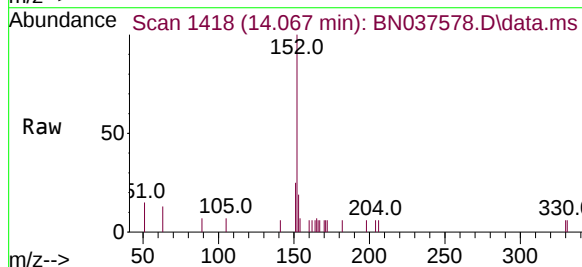
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

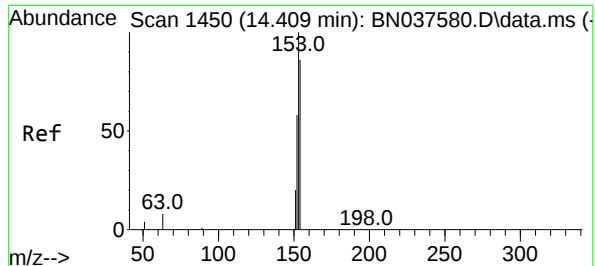
Tgt Ion	Ratio	Lower	Upper
172	100		
171	40.0	28.2	42.4
170	29.4	19.2	28.8



#16
Acenaphthylene
Concen: 0.097 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.1	24.1
153	13.6	10.7	16.1

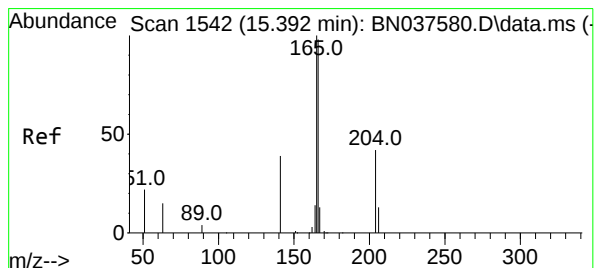
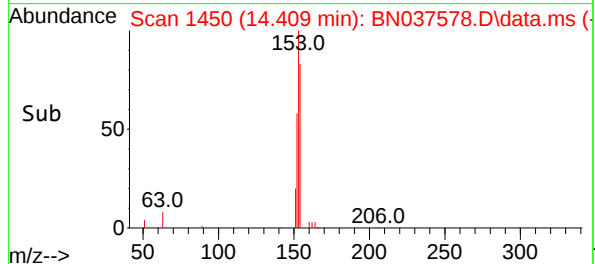
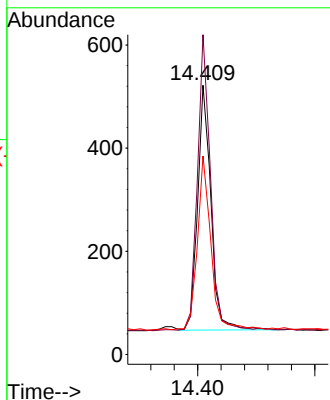
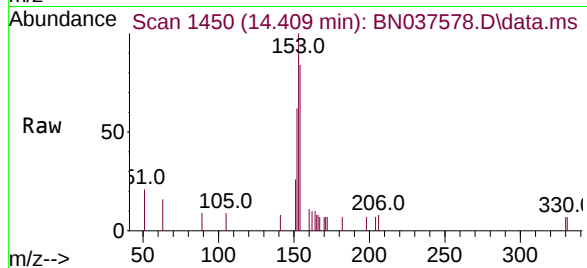




#17
Acenaphthene
Concen: 0.094 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

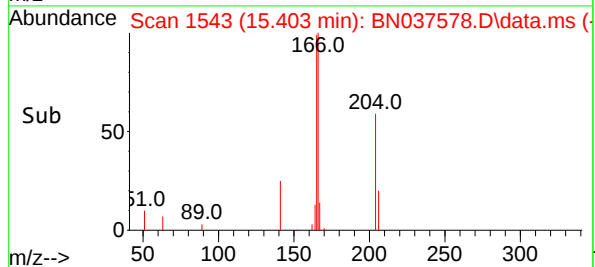
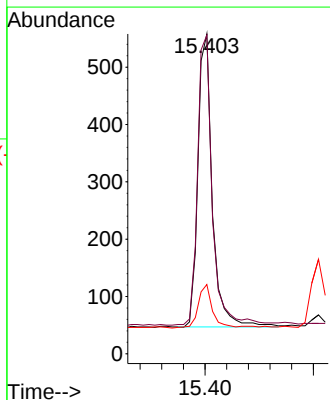
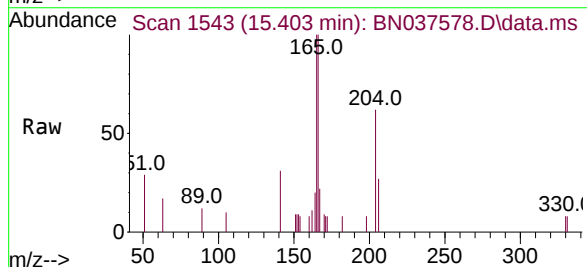
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

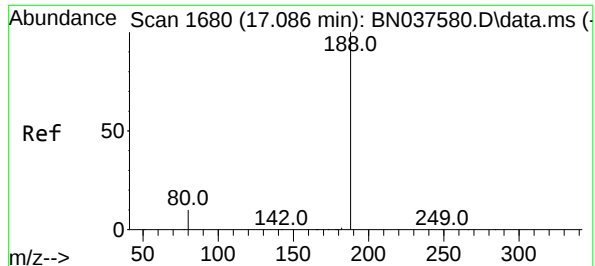
Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.8	90.6	135.8
152	71.6	54.9	82.3



#18
Fluorene
Concen: 0.092 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.011 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	78.9	118.3
167	14.2	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

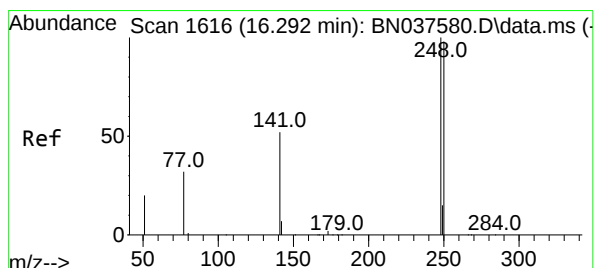
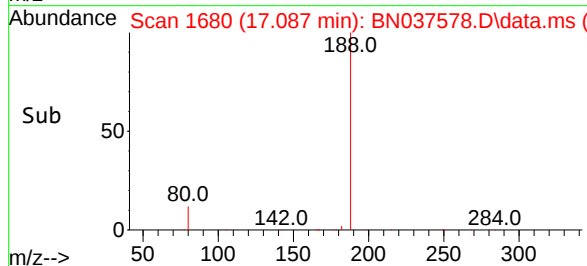
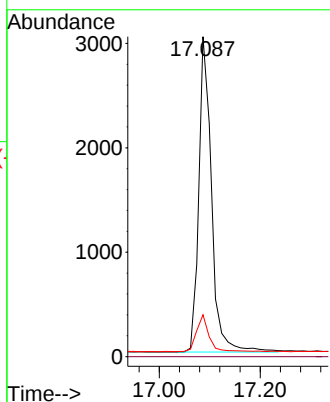
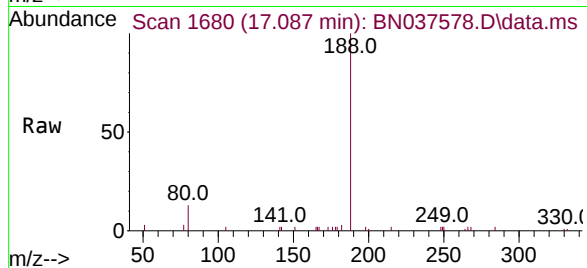
Tgt Ion:188 Resp: 5296

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 9.1 13.7



#21

4-Bromophenyl-phenylether

Concen: 0.090 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

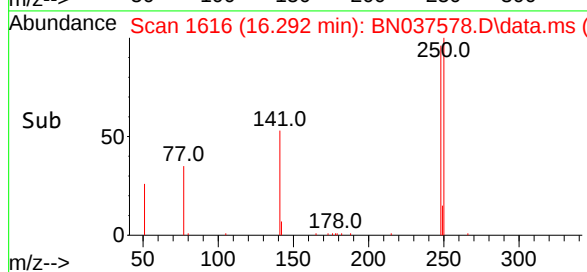
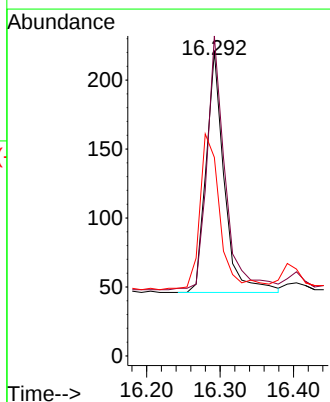
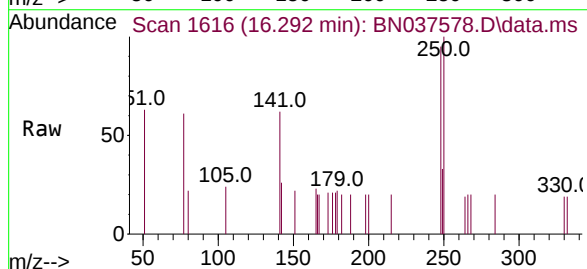
Tgt Ion:248 Resp: 299

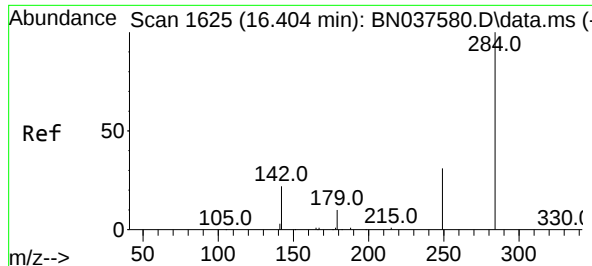
Ion Ratio Lower Upper

248 100

250 105.0 78.6 118.0

141 65.2 43.7 65.5





#22

Hexachlorobenzene

Concen: 0.101 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

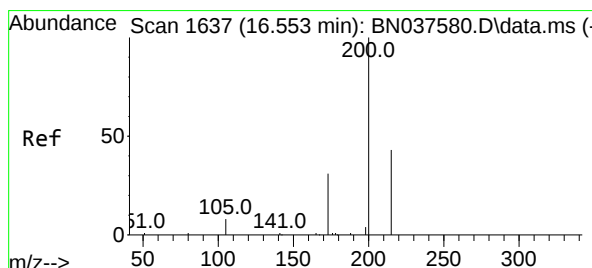
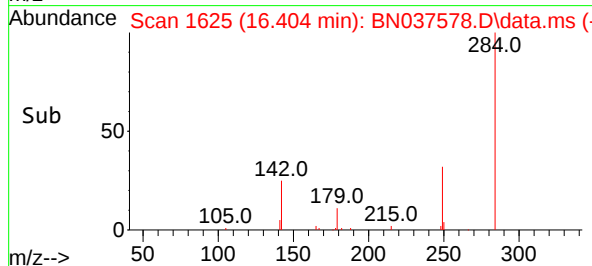
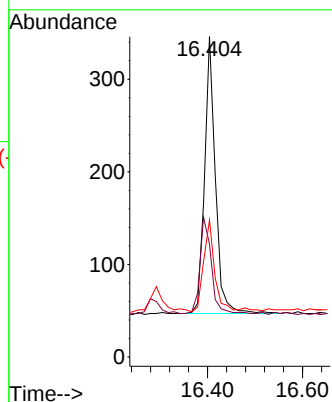
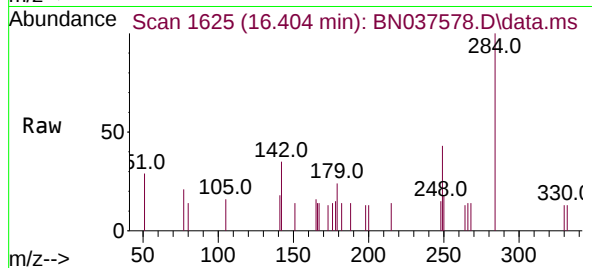
Tgt Ion:284 Resp: 476

Ion Ratio Lower Upper

284 100

142 36.8 29.8 44.6

249 33.4 26.0 39.0



#23

Atrazine

Concen: 0.089 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.012 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

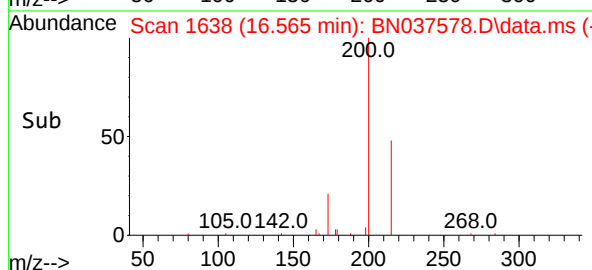
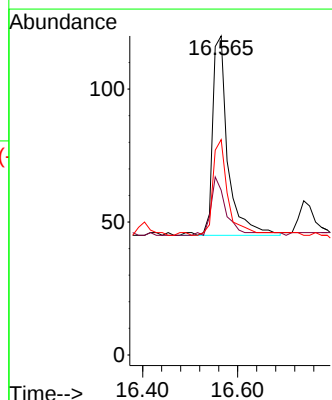
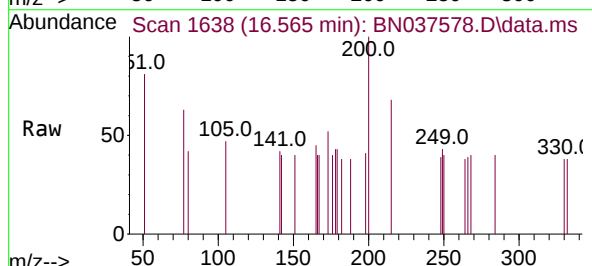
Tgt Ion:200 Resp: 168

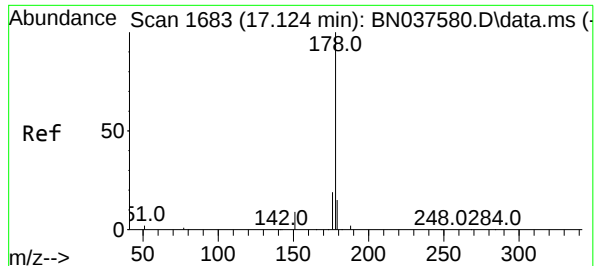
Ion Ratio Lower Upper

200 100

173 51.7 31.0 46.4#

215 67.5 39.4 59.0#

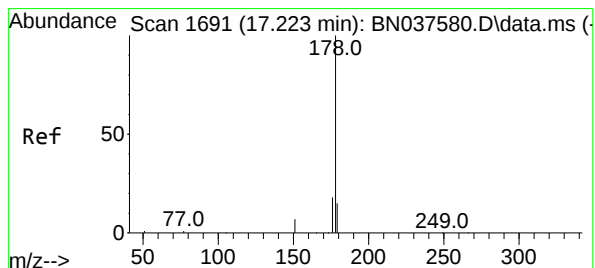
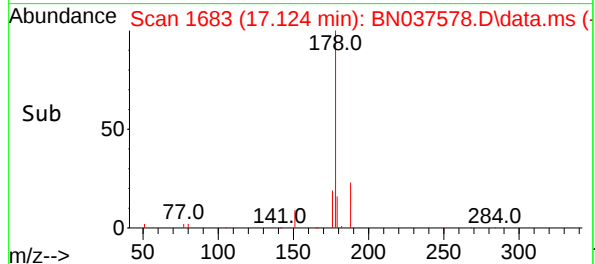
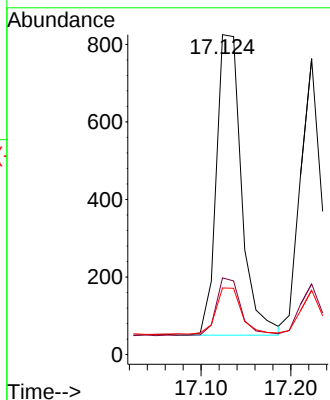
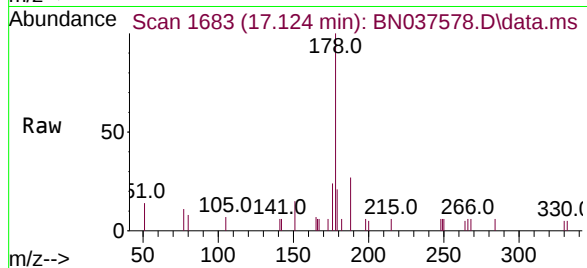




#25
Phenanthrene
Concen: 0.094 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

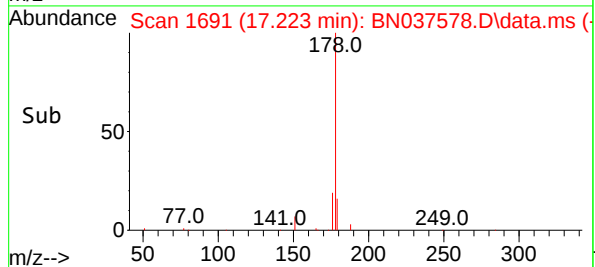
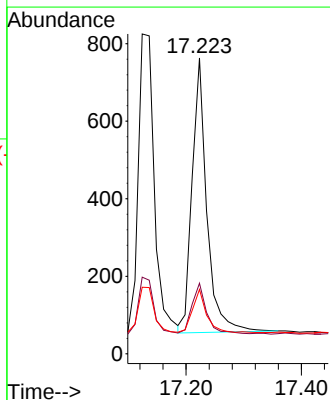
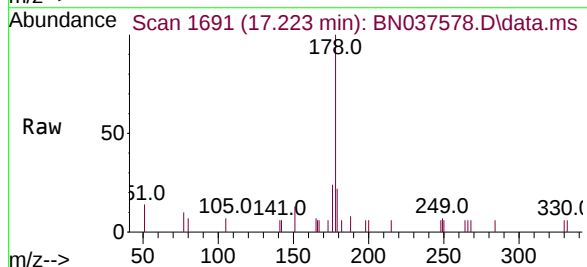
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

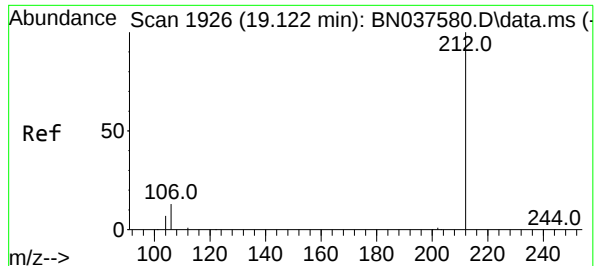
Tgt Ion:178 Resp: 1517
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 16.0 12.3 18.5



#26
Anthracene
Concen: 0.088 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:178 Resp: 1258
Ion Ratio Lower Upper
178 100
176 18.3 14.7 22.1
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.089 ng

RT: 19.123 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

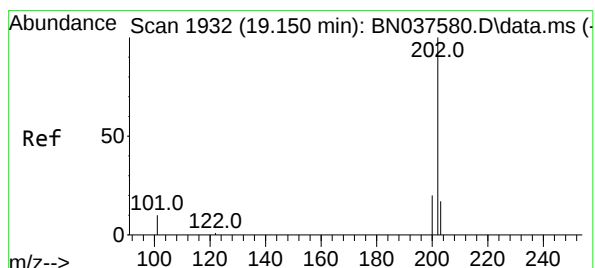
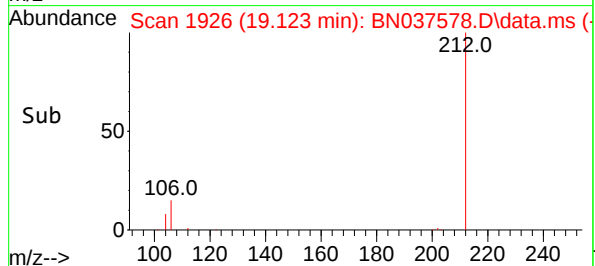
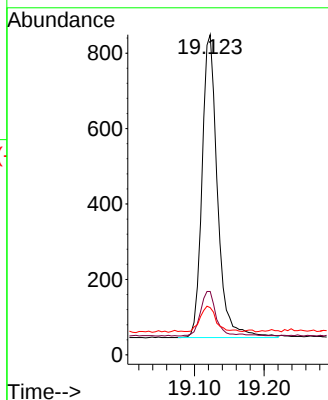
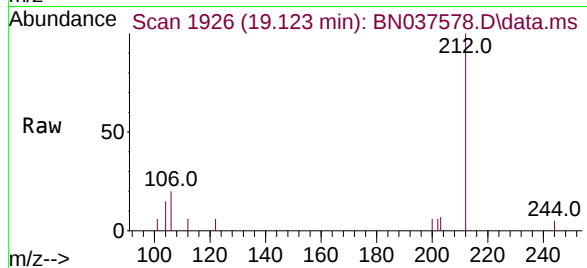
Tgt Ion:212 Resp: 1234

Ion Ratio Lower Upper

212 100

106 14.6 11.5 17.3

104 8.6 6.6 9.8



#28

Fluoranthene

Concen: 0.089 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

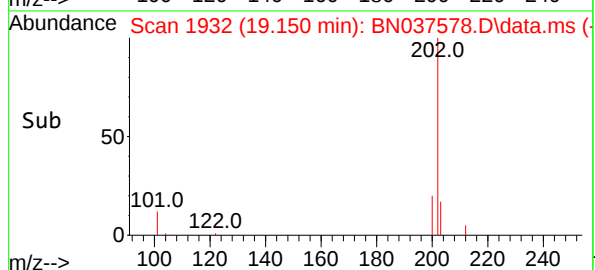
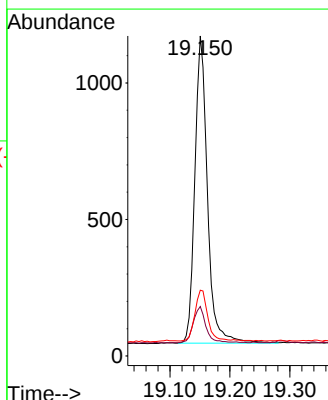
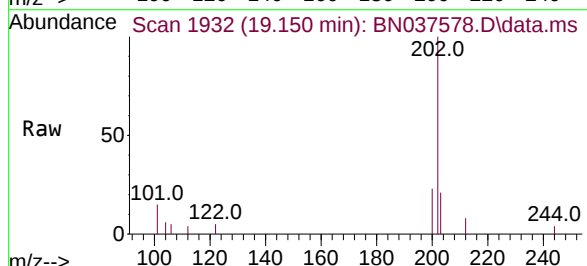
Tgt Ion:202 Resp: 1643

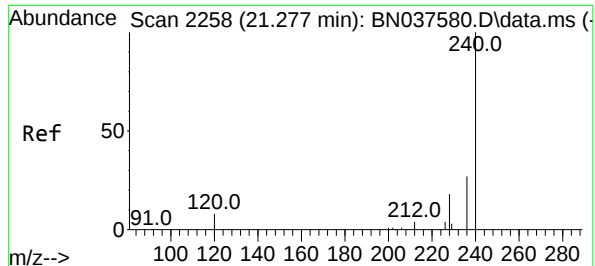
Ion Ratio Lower Upper

202 100

101 11.9 9.0 13.6

203 16.7 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

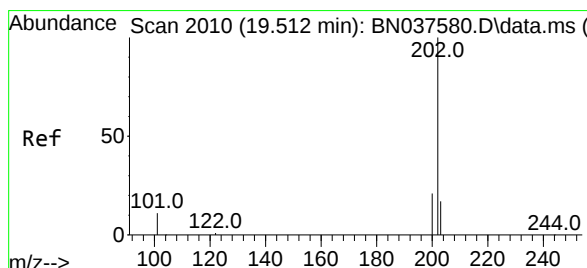
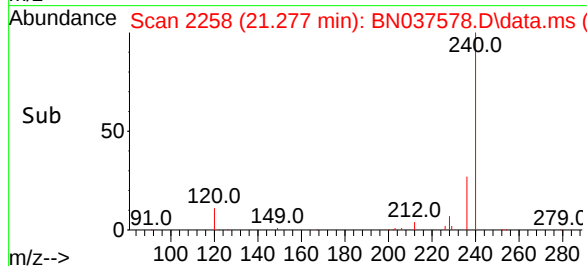
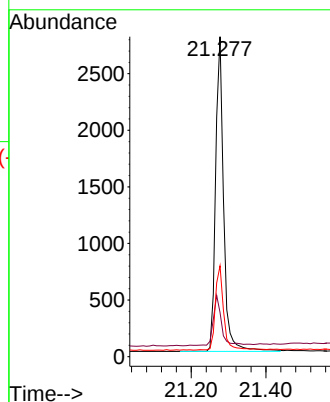
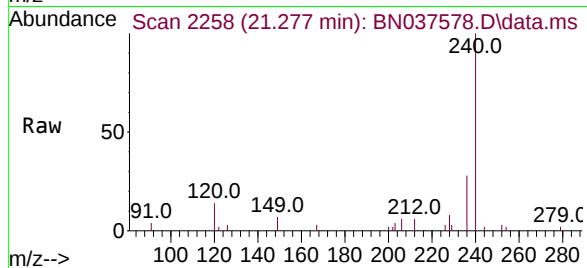
Tgt Ion:240 Resp: 4146

Ion Ratio Lower Upper

240 100

120 13.8 8.9 13.3#

236 28.4 22.6 33.8



#30

Pyrene

Concen: 0.103 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

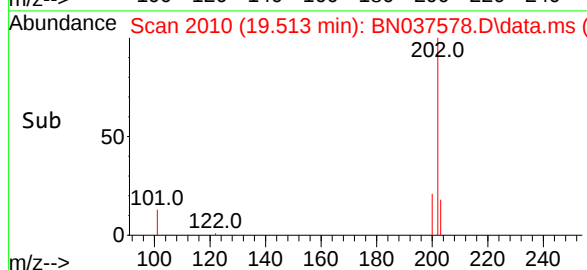
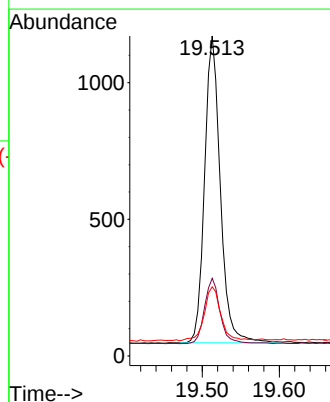
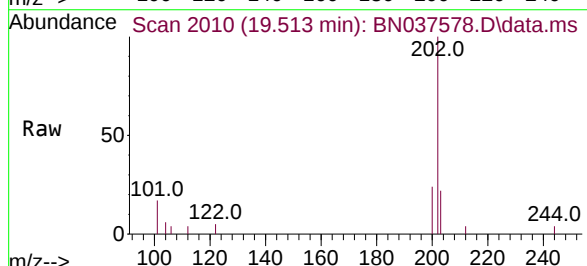
Tgt Ion:202 Resp: 1595

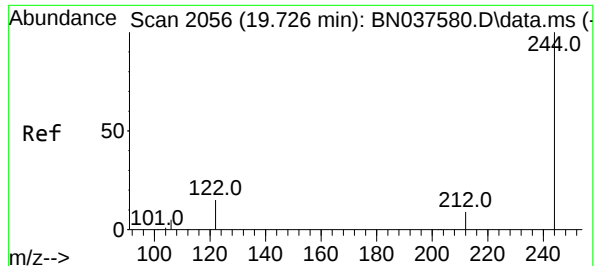
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 18.0 14.3 21.5

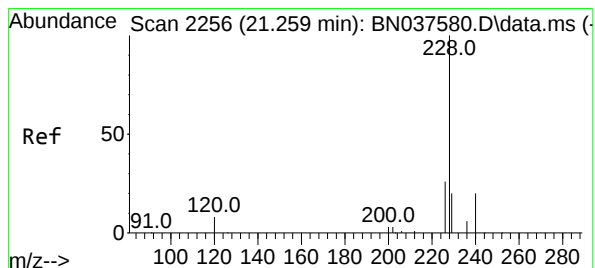
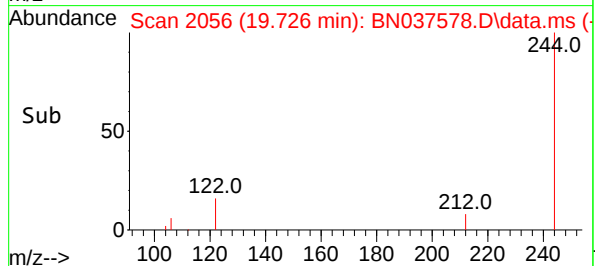
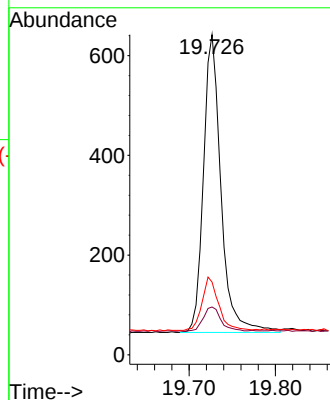
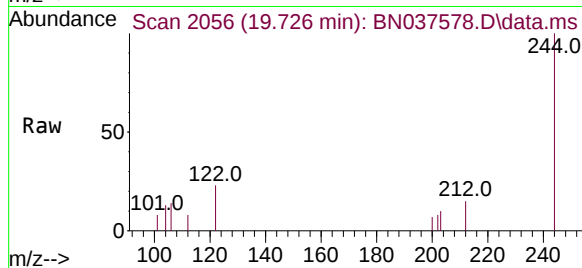




#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

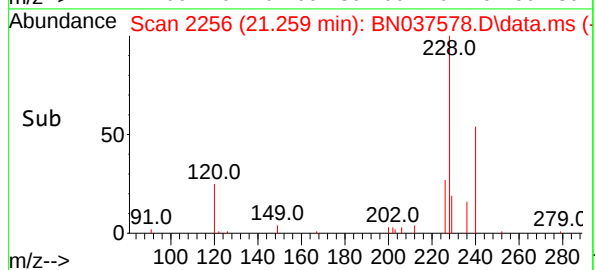
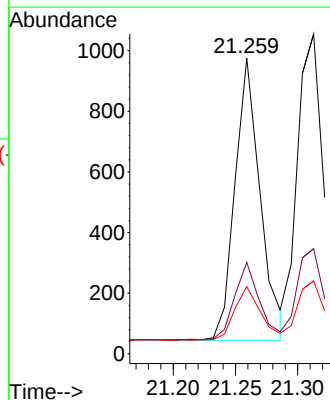
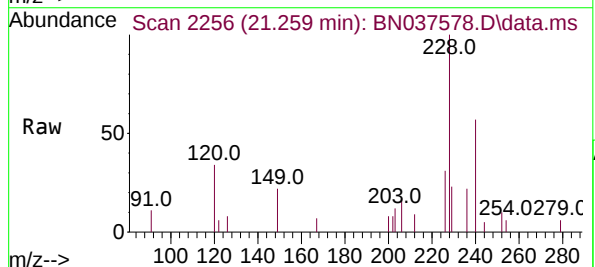
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

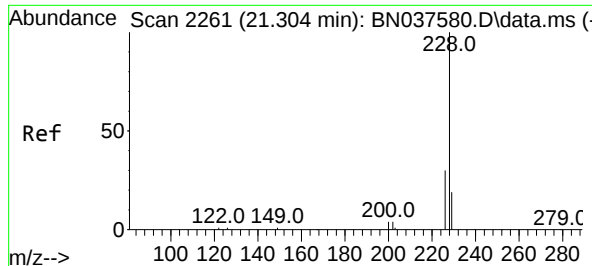
Tgt Ion:244 Resp: 844
Ion Ratio Lower Upper
244 100
212 15.0 8.2 12.2#
122 22.7 13.2 19.8#



#32
Benzo(a)anthracene
Concen: 0.095 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:228 Resp: 1312
Ion Ratio Lower Upper
228 100
226 30.9 21.5 32.3
229 22.7 16.5 24.7





#33

Chrysene

Concen: 0.104 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

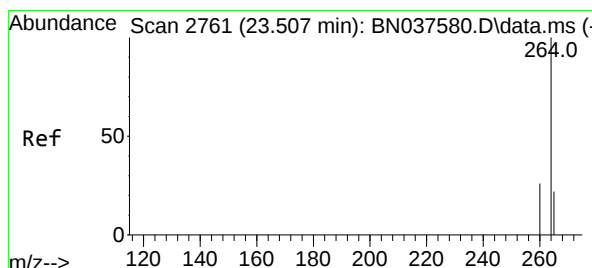
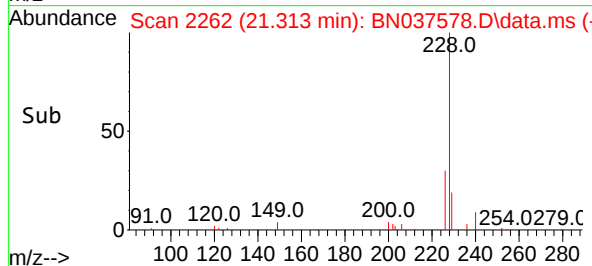
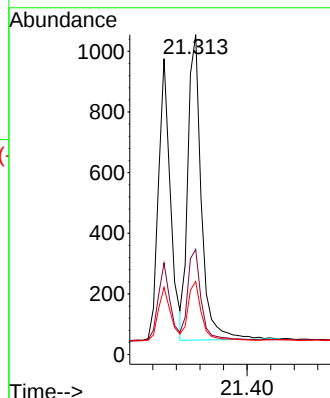
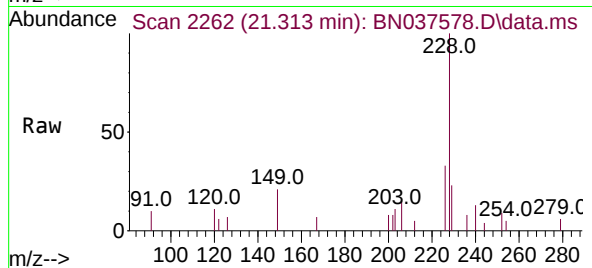
Tgt Ion:228 Resp: 1603

Ion Ratio Lower Upper

228 100

226 32.9 24.9 37.3

229 22.8 15.8 23.8



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.514 min Scan# 2763

Delta R.T. 0.006 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

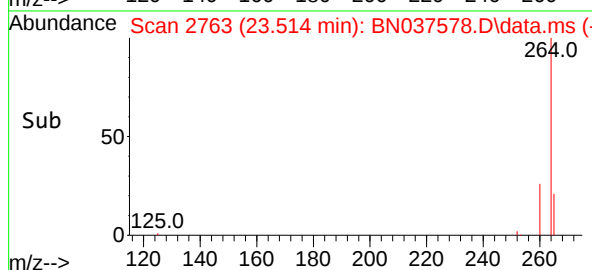
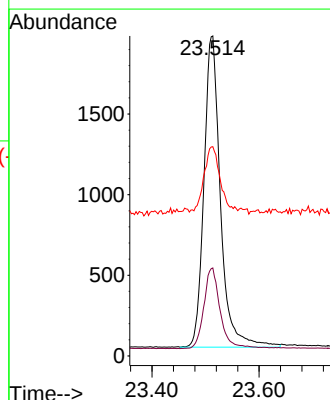
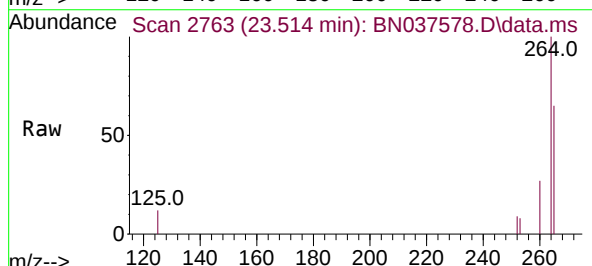
Tgt Ion:264 Resp: 4132

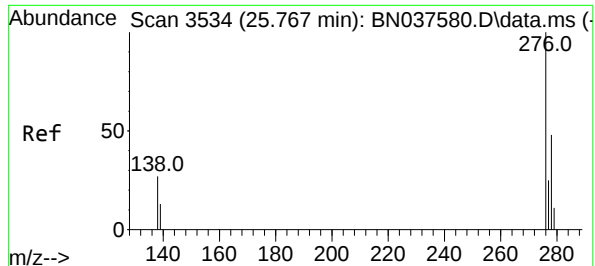
Ion Ratio Lower Upper

264 100

260 27.5 21.6 32.4

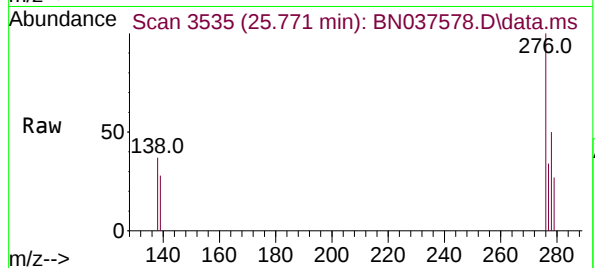
265 65.4 48.2 72.4



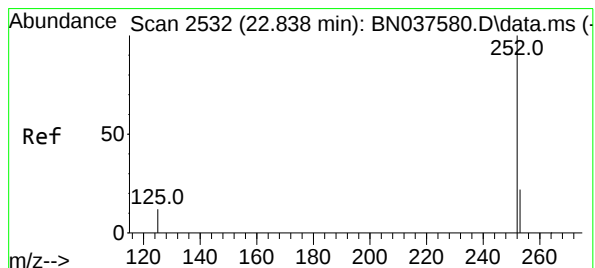
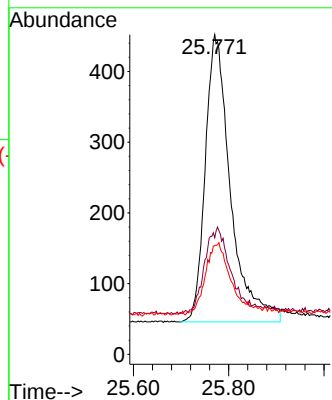
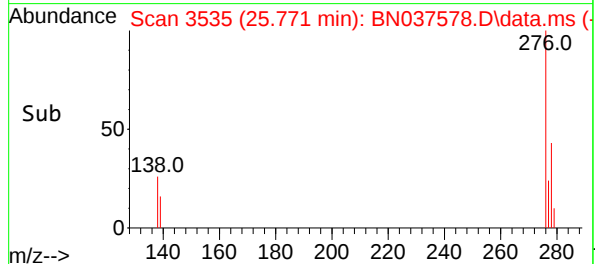


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.086 ng
RT: 25.771 min Scan# 3534
Delta R.T. 0.003 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

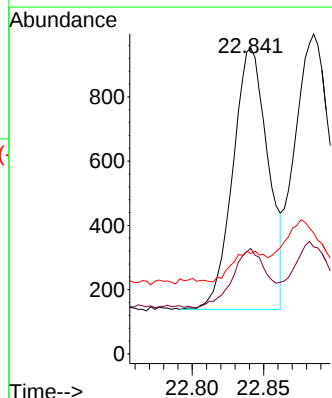
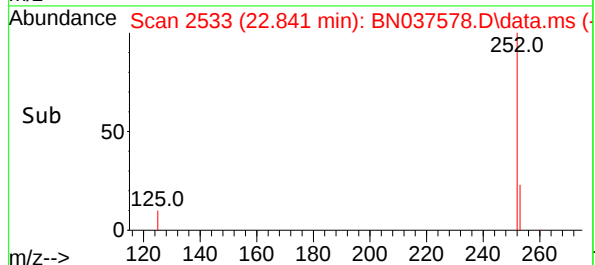
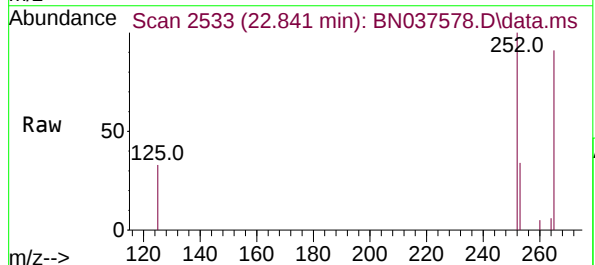


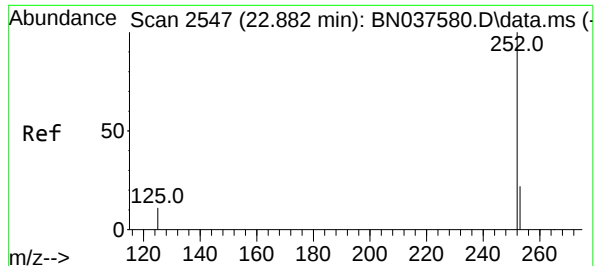
Tgt Ion:276 Resp: 1494
Ion Ratio Lower Upper
276 100
138 29.2 23.3 34.9
277 24.9 19.5 29.3



#37
Benzo(b)fluoranthene
Concen: 0.089 ng
RT: 22.841 min Scan# 2533
Delta R.T. 0.003 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

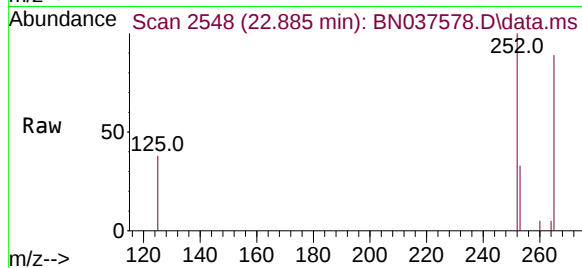
Tgt Ion:252 Resp: 1396
Ion Ratio Lower Upper
252 100
253 34.5 20.0 30.0#
125 32.8 13.8 20.6#



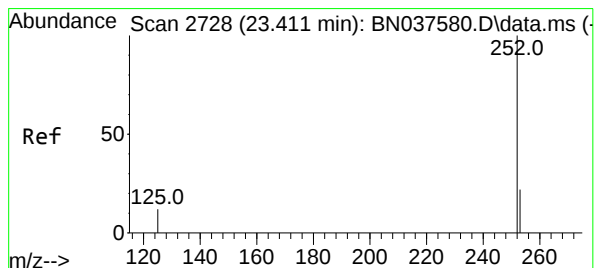
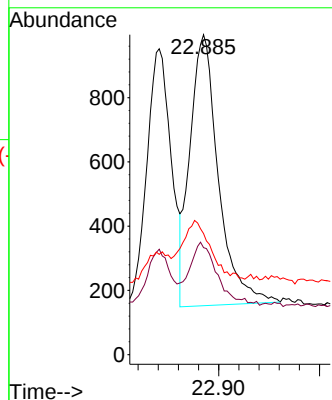


#38
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 22.885 min Scan# 2547
Delta R.T. 0.003 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

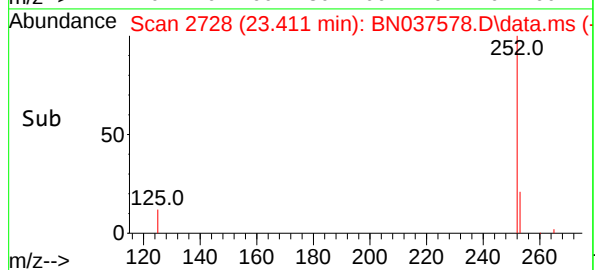
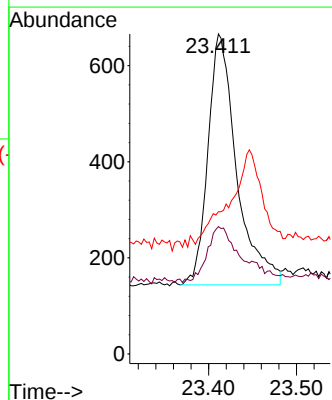
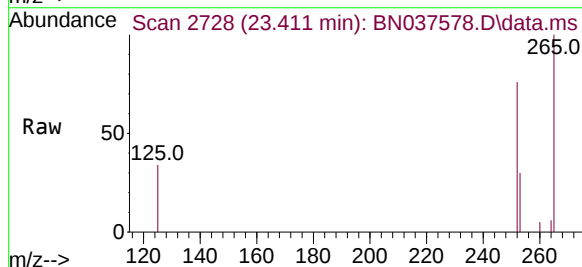


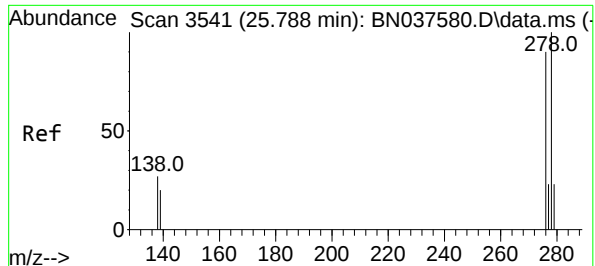
Tgt Ion:252 Resp: 1650
Ion Ratio Lower Upper
252 100
253 33.4 19.9 29.9#
125 37.9 15.0 22.6#



#39
Benzo(a)pyrene
Concen: 0.091 ng
RT: 23.411 min Scan# 2728
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:252 Resp: 1184
Ion Ratio Lower Upper
252 100
253 39.8 21.6 32.4#
125 44.4 16.8 25.2#

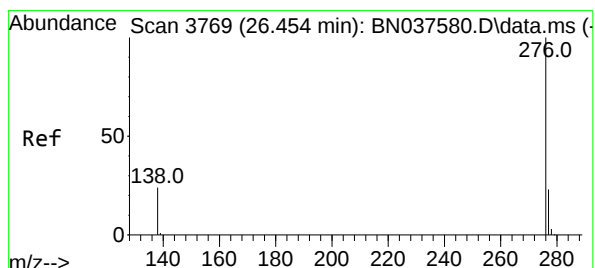
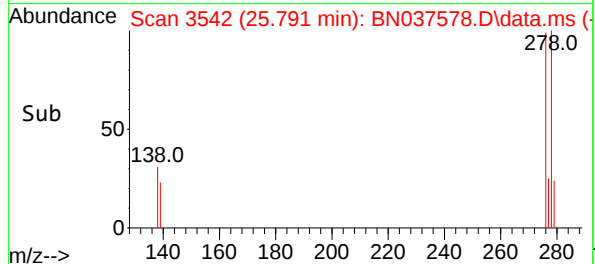
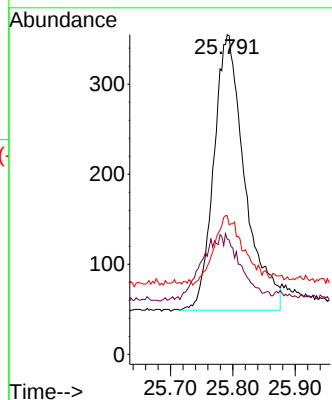
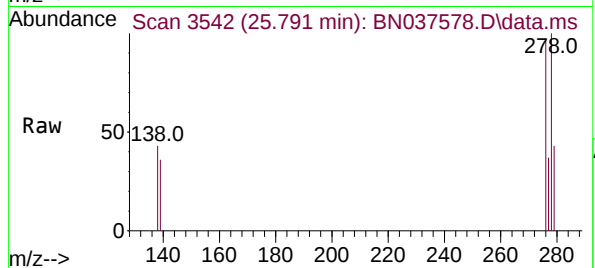




#40
Dibenzo(a,h)anthracene
Concen: 0.078 ng
RT: 25.791 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

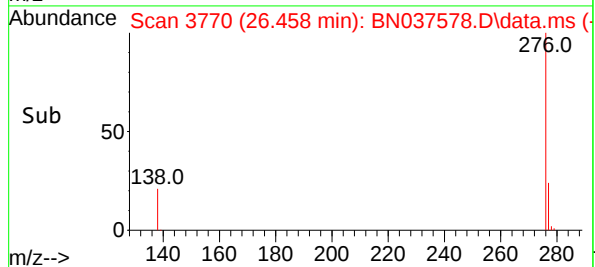
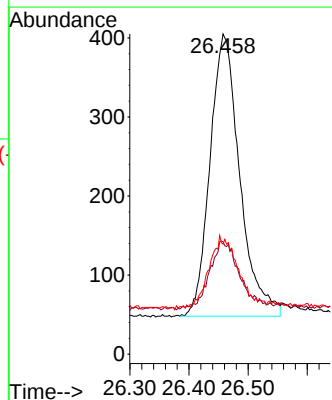
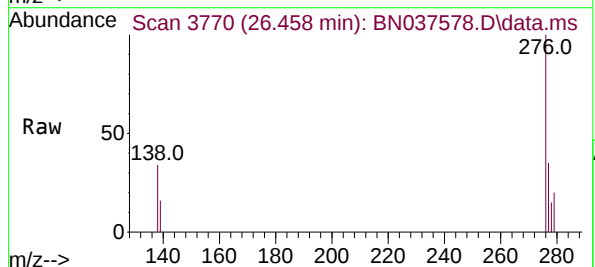
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:278 Resp: 1057
Ion Ratio Lower Upper
278 100
139 36.1 18.3 27.5#
279 43.4 22.5 33.7#



#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 26.458 min Scan# 3770
Delta R.T. 0.003 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:276 Resp: 1247
Ion Ratio Lower Upper
276 100
277 35.1 21.0 31.4#
138 34.3 21.7 32.5#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037579.D
 Acq On : 12 Aug 2025 17:03
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Aug 13 04:47:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2031	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4975	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2407	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4812	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4019	0.400	ng	0.00
35) Perylene-d12	23.508	264	3859	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	960	0.209	ng	0.00
5) Phenol-d6	6.879	99	1067	0.193	ng	0.00
8) Nitrobenzene-d5	8.854	82	640	0.183	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	1225	0.181	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	179	0.170	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	2700	0.194	ng	0.00
27) Fluoranthene-d10	19.123	212	2323	0.184	ng	0.00
31) Terphenyl-d14	19.726	244	1609	0.195	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	419	0.216	ng	96
3) n-Nitrosodimethylamine	3.543	42	478	0.193	ng	# 94
6) bis(2-Chloroethyl)ether	7.139	93	1002	0.201	ng	99
9) Naphthalene	10.552	128	2613	0.197	ng	96
10) Hexachlorobutadiene	10.851	225	641	0.198	ng	# 99
12) 2-Methylnaphthalene	12.167	142	1570	0.189	ng	98
16) Acenaphthylene	14.067	152	2118	0.196	ng	100
17) Acenaphthene	14.409	154	1384	0.189	ng	98
18) Fluorene	15.393	166	1817	0.189	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	100	0.295	ng	# 58
21) 4-Bromophenyl-phenylether	16.292	248	567	0.187	ng	97
22) Hexachlorobenzene	16.404	284	865	0.202	ng	99
23) Atrazine	16.553	200	303	0.177	ng	# 83
24) Pentachlorophenol	16.739	266	260	0.173	ng	95
25) Phenanthrene	17.124	178	2796	0.191	ng	99
26) Anthracene	17.223	178	2371	0.183	ng	99
28) Fluoranthene	19.150	202	3041	0.181	ng	99
30) Pyrene	19.513	202	2987	0.199	ng	99
32) Benzo(a)anthracene	21.259	228	2563	0.191	ng	97
33) Chrysene	21.304	228	3045	0.204	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	1040	0.188	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.771	276	2821	0.173	ng	98
37) Benzo(b)fluoranthene	22.838	252	2653	0.181	ng	# 91
38) Benzo(k)fluoranthene	22.882	252	3049	0.185	ng	# 90
39) Benzo(a)pyrene	23.414	252	2191	0.181	ng	# 83
40) Dibenzo(a,h)anthracene	25.785	278	2157	0.171	ng	# 89
41) Benzo(g,h,i)perylene	26.455	276	2459	0.185	ng	93

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Abundance

TIC: BN037579.D\data.ms

Time-->

7500

7000

6500

6000

5500

5000

4500

4000

3500

3000

2500

2000

1500

1000

500

0

4.00

6.00

8.00

10.00

12.00

14.00

16.00

18.00

20.00

22.00

24.00

26.00

28.00

1,4-Dioxane

n-Nitrosodimethylamine

2-Fluorophenol,S

Phenol-d6,S

bis(2-Chloroethyl)ether

1,4-Dichlorobenzene-d4,l

Nitrobenzene-d5,S

Naphthalene

Hexachlorobutadiene

2-Methylnaphthalene-d10,SURR2

Methylnaphthalene

2-Fluorobiphenyl,S

Acenaphthylene

Acenaphthene

Acenaphthene-d10,l

Fluorene

4,6-Dinitro-2-methylphenol

2,4,6-Tribromophenol,S

Alkylphenol

Hexachlorocyclopentadiene

Pentachlorophenol

Phenanthrene

Phenanthrene-d10,l

Anthracene

Fluoranthene-d10,SURR

Fluoranthene

Pyrene

Terphenyl-d14,S

Bis(2-ethylhexyl)phthalate

Chrysene

Benzo(a)anthracene

Benzo(a)pyrene

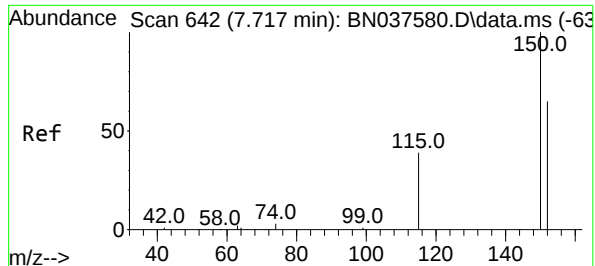
Benzo(a)pyrene-d12,l

Benzo(a)pyrene,C

Perylene-d12,l

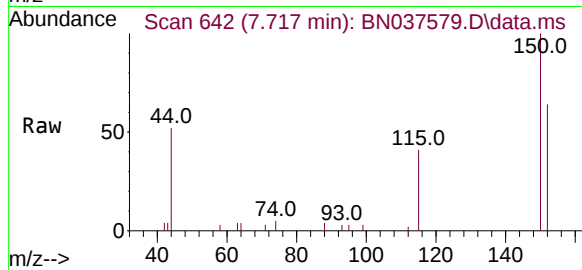
Benzo(g,h,i)perylene

Benzo(g,h,i)perylene

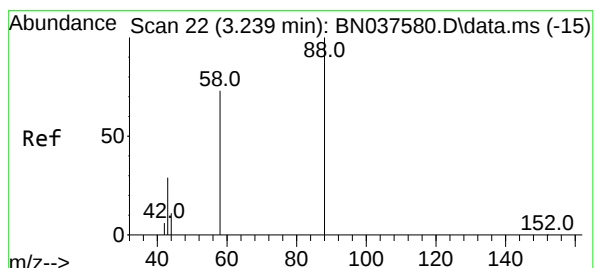
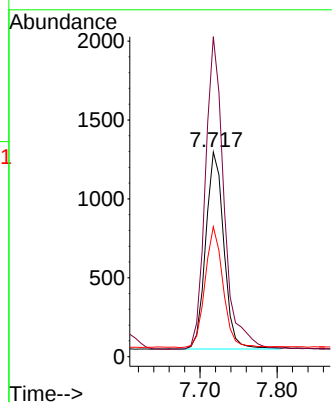
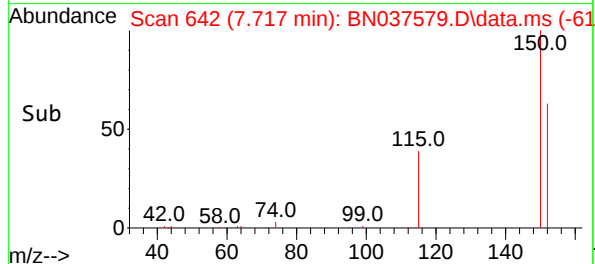


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

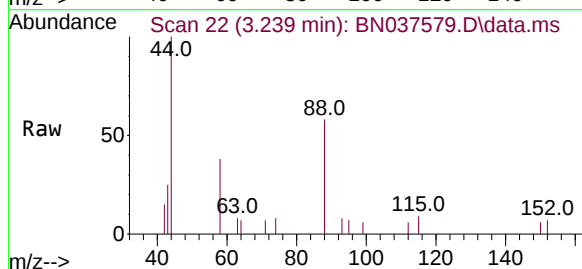
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



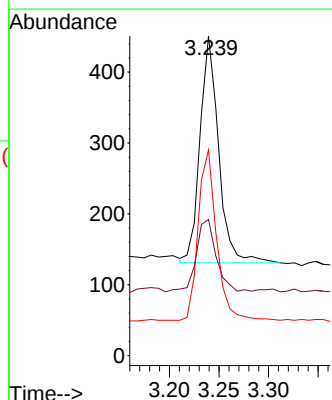
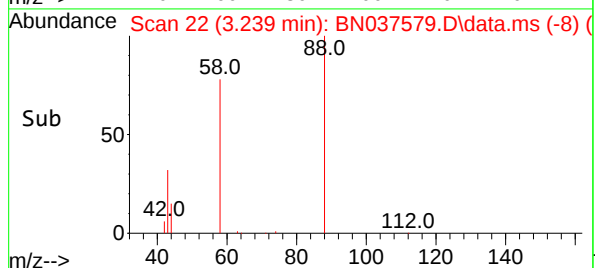
Tgt Ion: 152 Resp: 2031
Ion Ratio Lower Upper
152 100
150 156.4 122.2 183.4
115 63.5 49.8 74.6

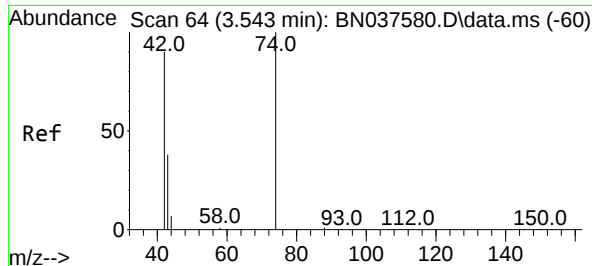


#2
1,4-Dioxane
Concen: 0.216 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03



Tgt Ion: 88 Resp: 419
Ion Ratio Lower Upper
88 100
43 34.8 25.8 38.6
58 73.7 61.2 91.8

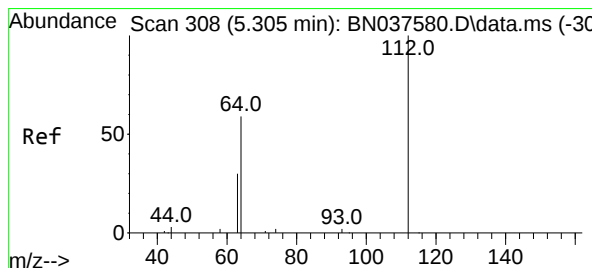
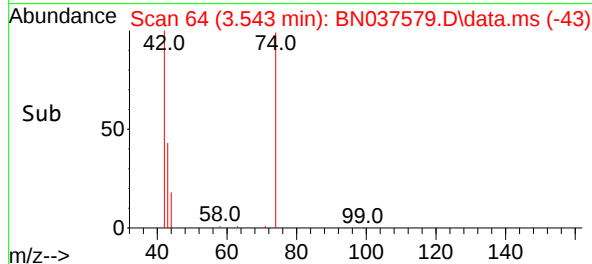
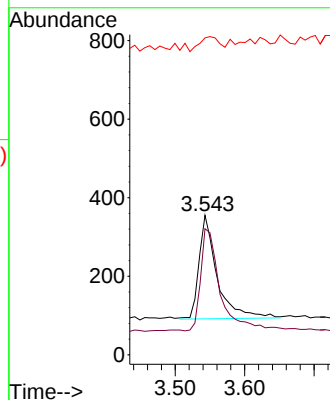
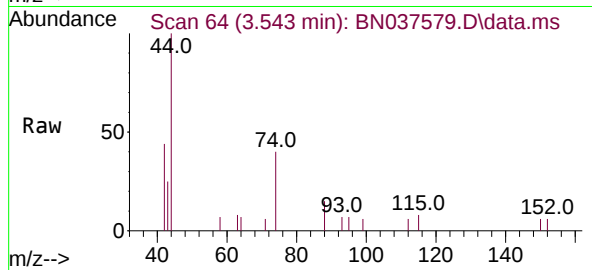




#3
n-Nitrosodimethylamine
Concen: 0.193 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

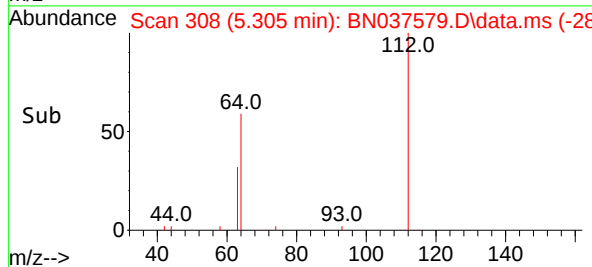
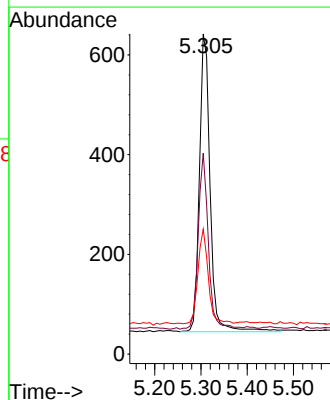
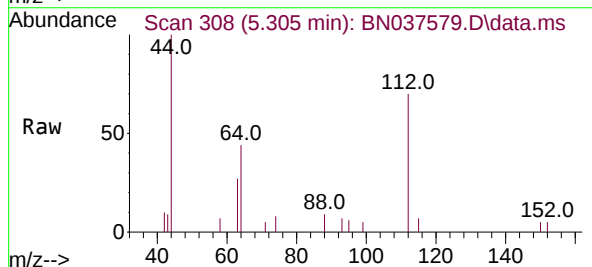
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

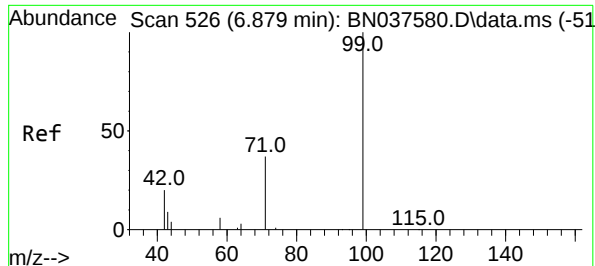
Tgt Ion: 42 Resp: 478
Ion Ratio Lower Upper
42 100
74 107.5 82.0 123.0
44 15.7 7.9 11.9#



#4
2-Fluorophenol
Concen: 0.209 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

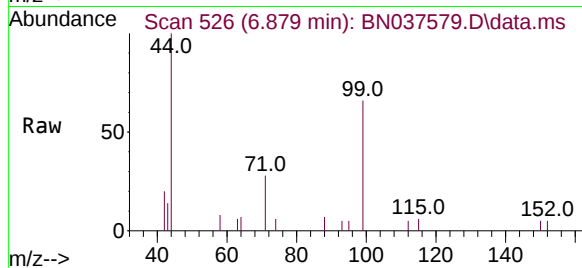
Tgt Ion: 112 Resp: 960
Ion Ratio Lower Upper
112 100
64 56.3 44.9 67.3
63 30.9 23.4 35.2



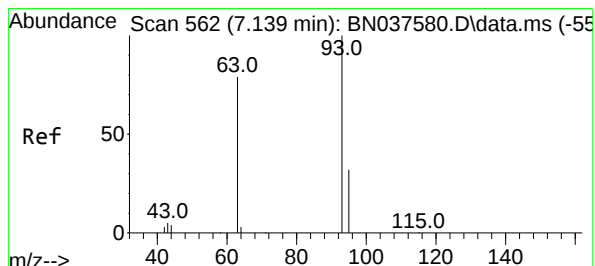
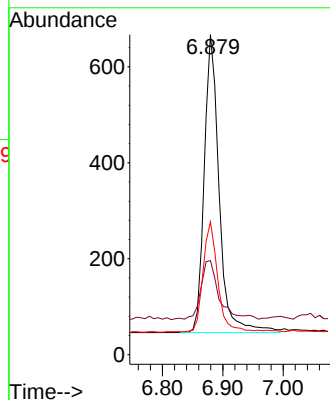
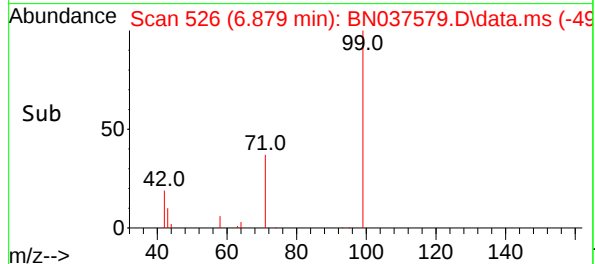


#5
Phenol-d6
Concen: 0.193 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

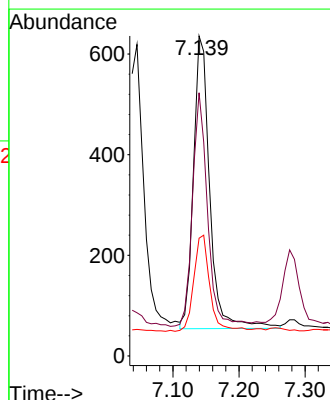
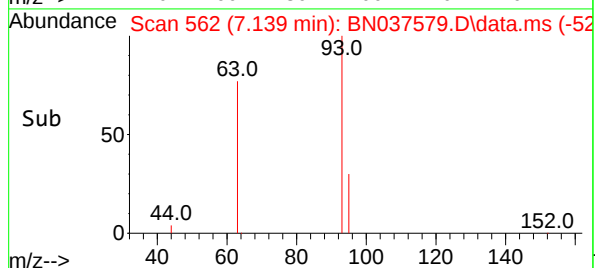
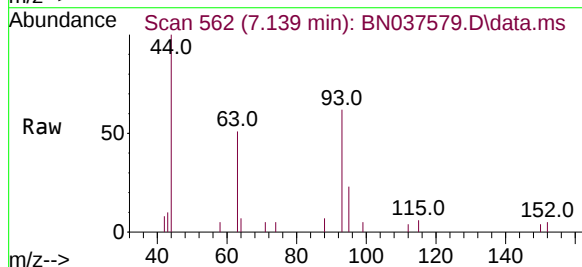


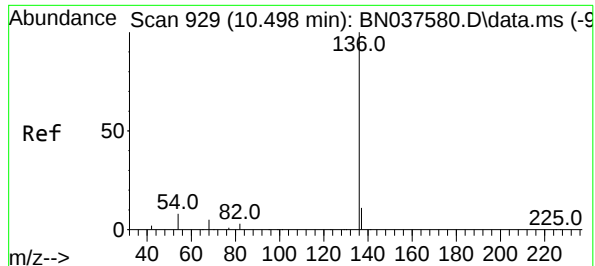
Tgt Ion: 99 Resp: 1067
Ion Ratio Lower Upper
99 100
42 24.4 18.5 27.7
71 35.7 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.201 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion: 93 Resp: 1002
Ion Ratio Lower Upper
93 100
63 73.4 58.0 87.0
95 32.5 24.9 37.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.498 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:136 Resp: 4975

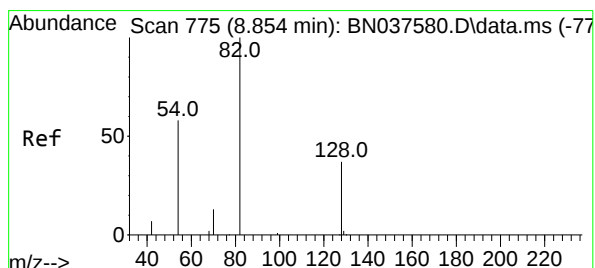
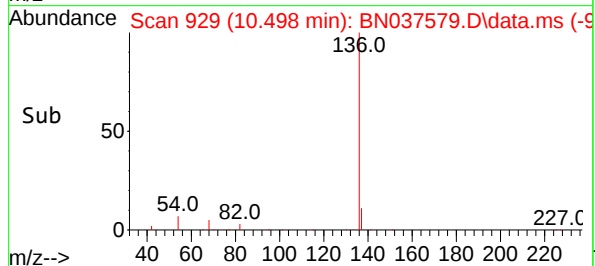
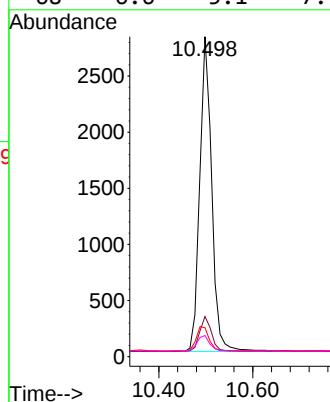
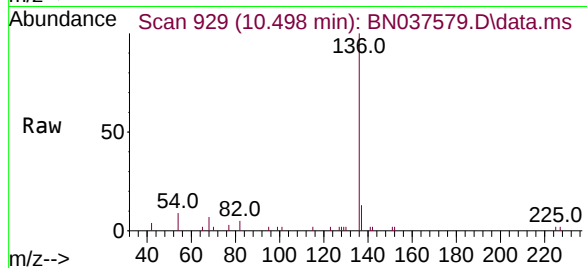
Ion Ratio Lower Upper

136 100

137 12.6 9.5 14.3

54 9.0 7.3 10.9

68 6.6 5.1 7.7



#8

Nitrobenzene-d5

Concen: 0.183 ng

RT: 8.854 min Scan# 775

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

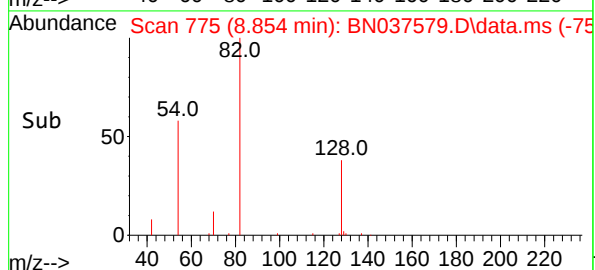
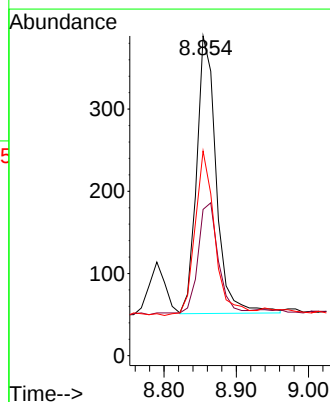
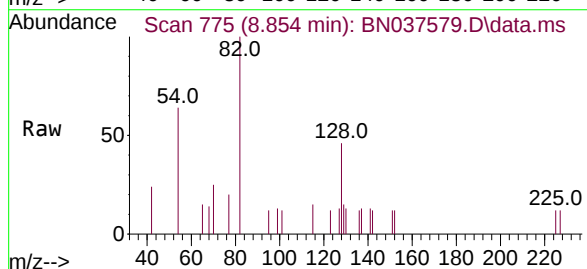
Tgt Ion: 82 Resp: 640

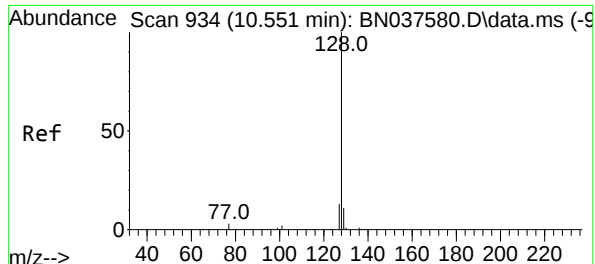
Ion Ratio Lower Upper

82 100

128 45.8 32.6 48.8

54 64.0 48.9 73.3

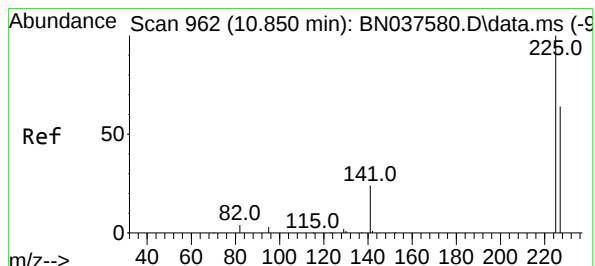
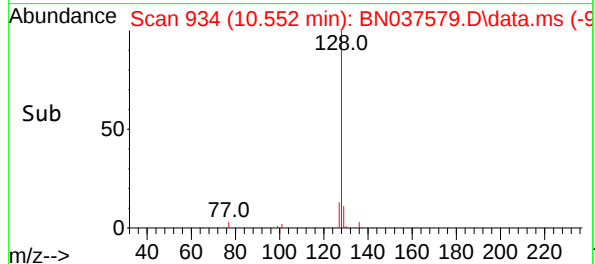
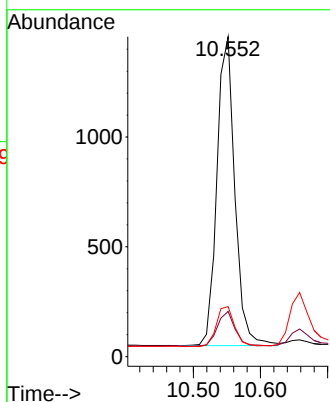
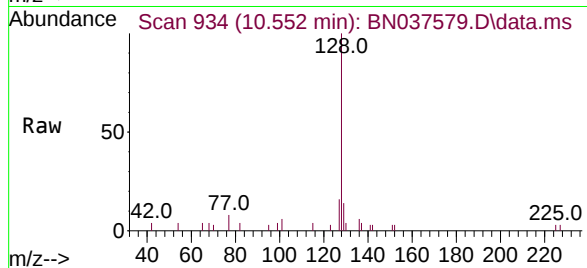




#9
Naphthalene
Concen: 0.197 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

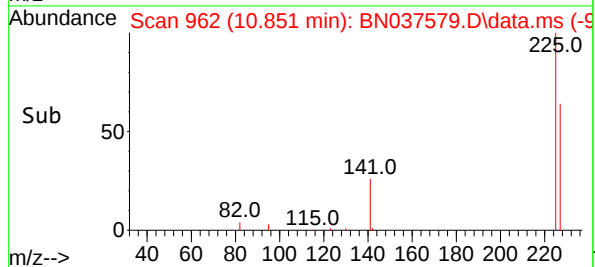
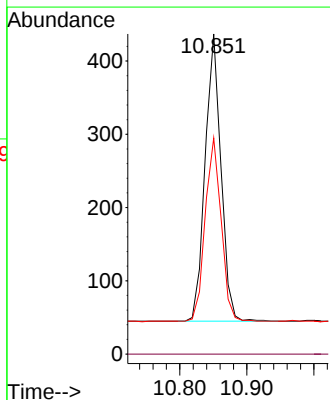
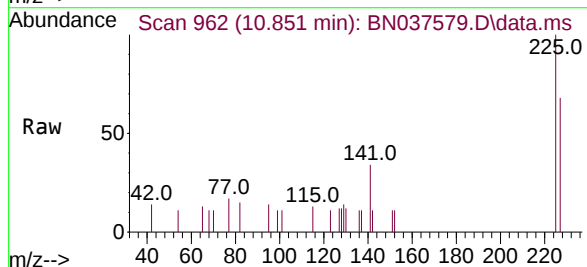
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

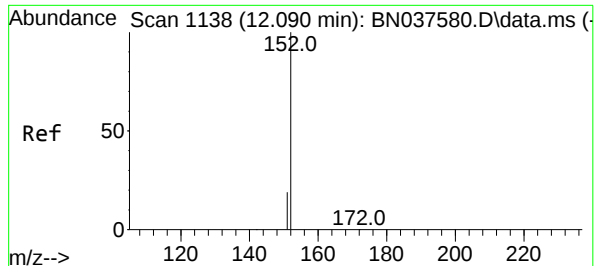
Tgt Ion:128 Resp: 2613
Ion Ratio Lower Upper
128 100
129 14.1 9.8 14.6
127 15.6 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:225 Resp: 641
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.8 76.2

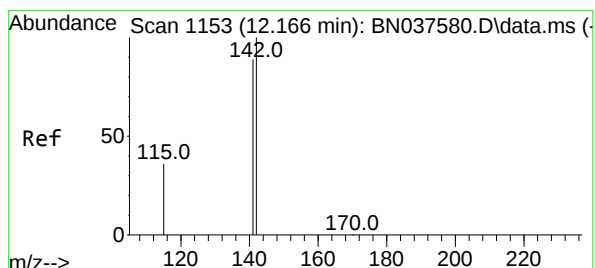
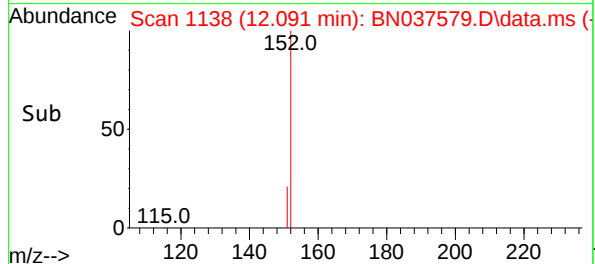
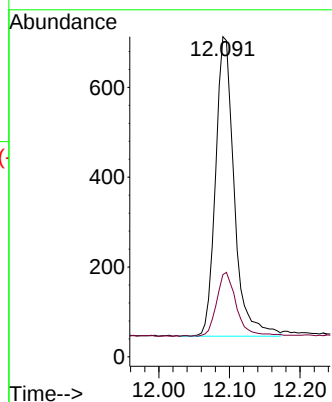
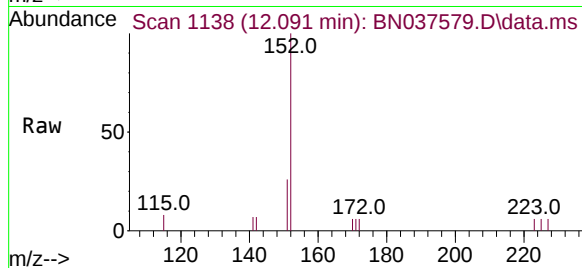




#11
2-Methylnaphthalene-d10
Concen: 0.181 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

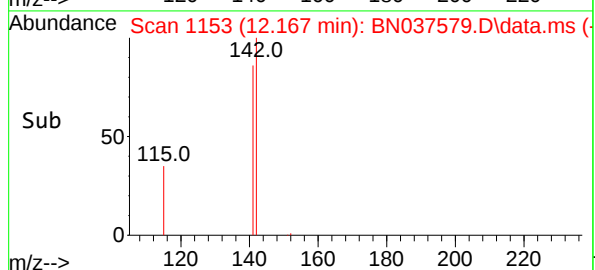
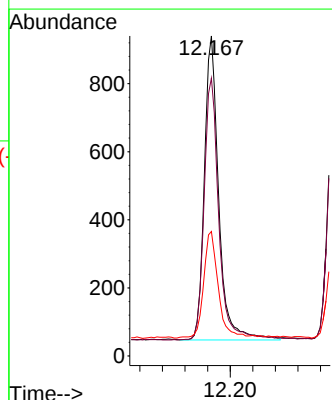
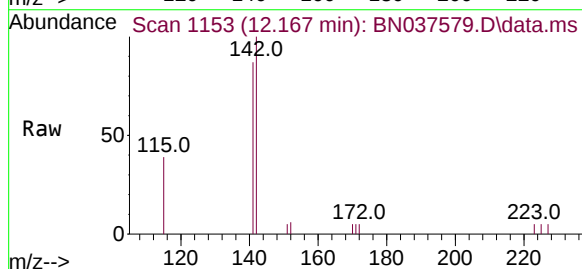
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

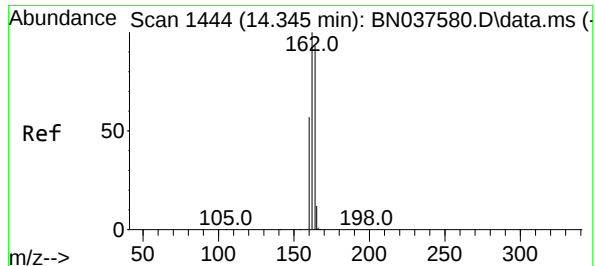
Tgt Ion:152 Resp: 1225
Ion Ratio Lower Upper
152 100
151 22.7 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.189 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:142 Resp: 1570
Ion Ratio Lower Upper
142 100
141 86.8 71.4 107.0
115 38.9 30.2 45.4

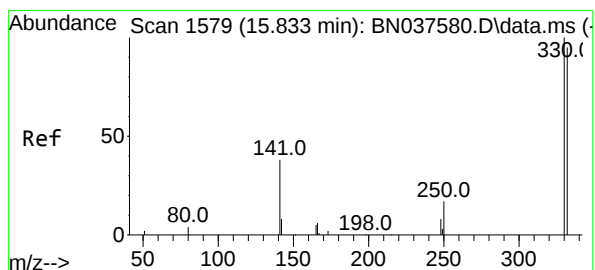
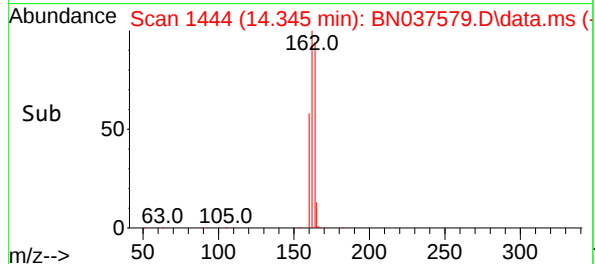
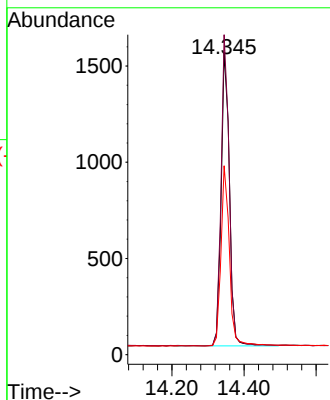
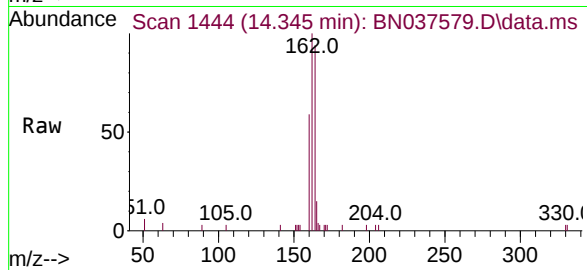




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

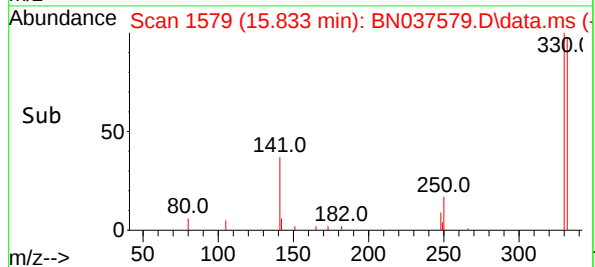
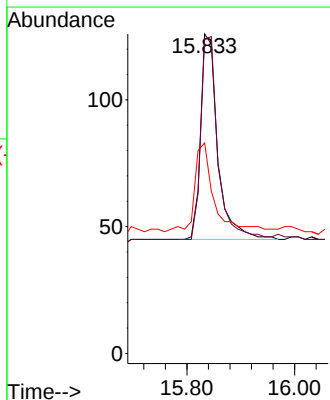
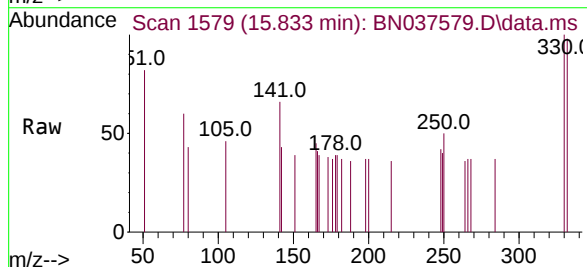
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

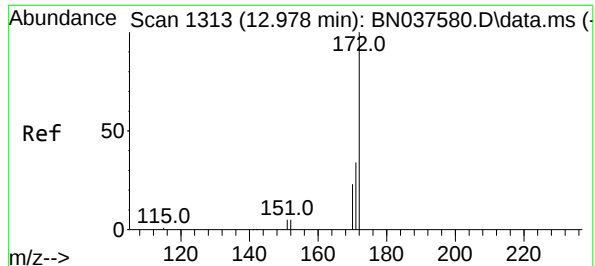
Tgt Ion:164 Resp: 2407
Ion Ratio Lower Upper
164 100
162 106.0 85.5 128.3
160 62.6 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.170 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 98.9 77.4 116.0
141 48.0 30.9 46.3#

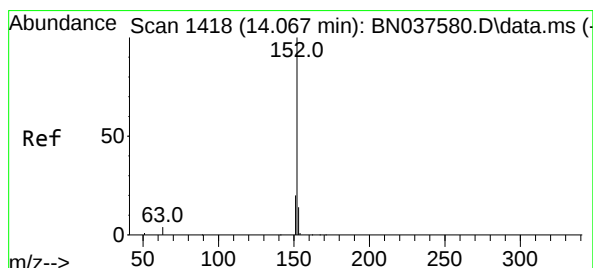
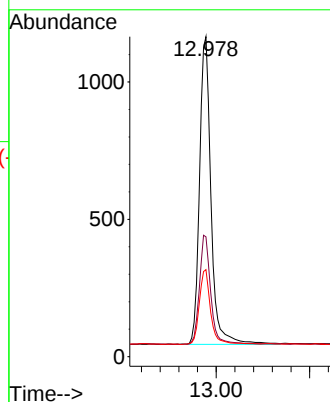
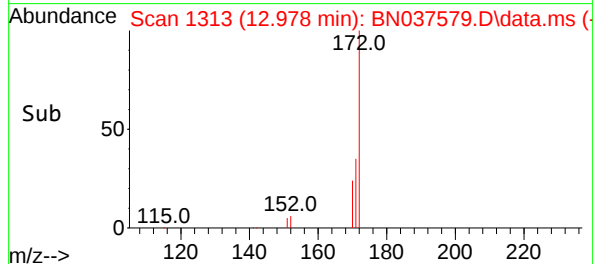
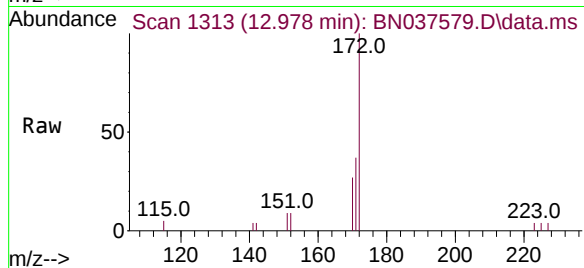




#15
2-Fluorobiphenyl
Concen: 0.194 ng
RT: 12.978 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

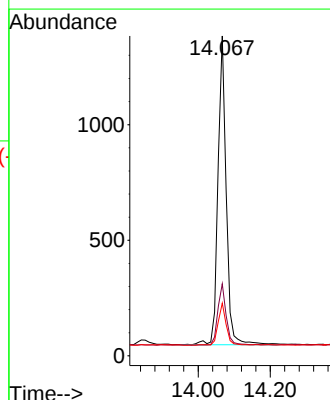
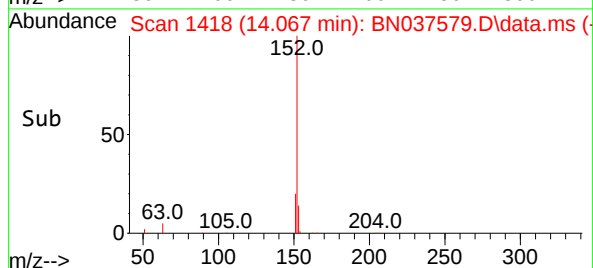
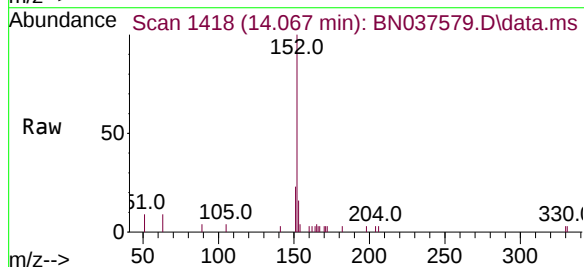
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

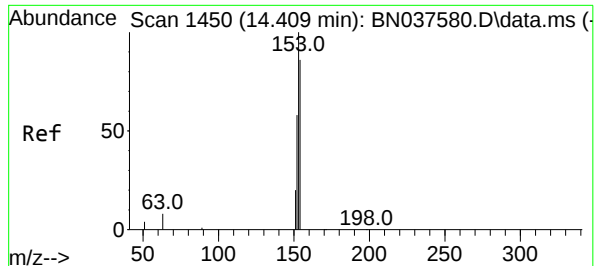
Tgt Ion:172 Resp: 2700
Ion Ratio Lower Upper
172 100
171 37.4 28.2 42.4
170 27.2 19.2 28.8



#16
Acenaphthylene
Concen: 0.196 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:152 Resp: 2118
Ion Ratio Lower Upper
152 100
151 20.4 16.1 24.1
153 13.3 10.7 16.1

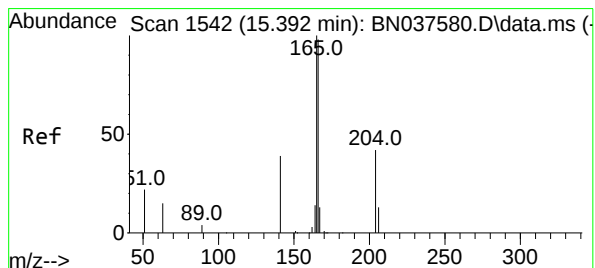
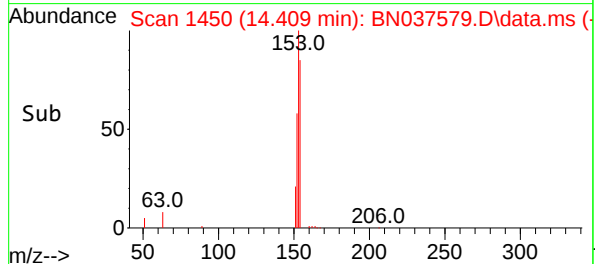
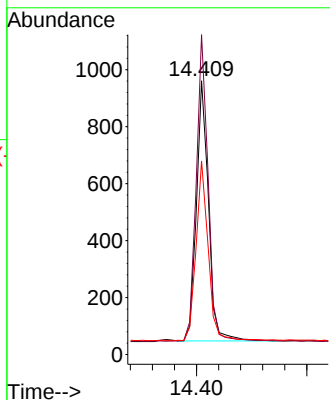
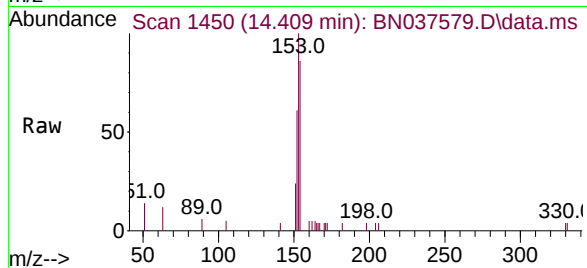




#17
Acenaphthene
Concen: 0.189 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

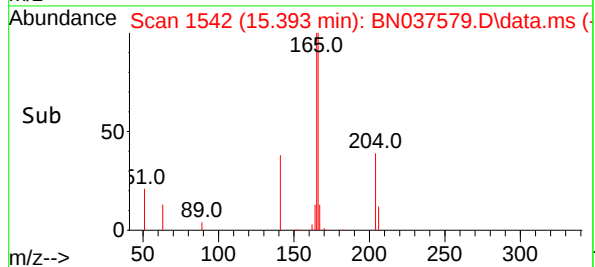
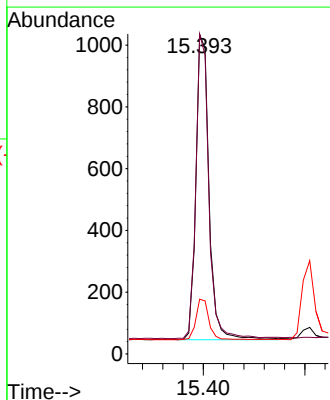
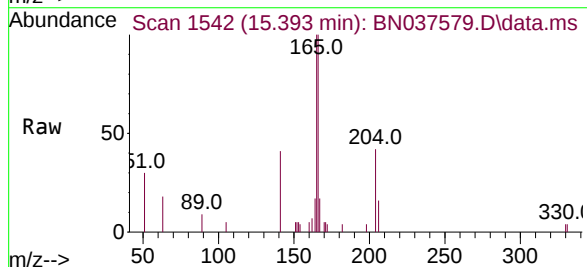
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

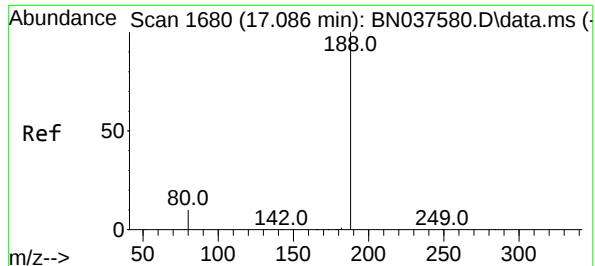
Tgt Ion	154	Resp:	1384
Ion	Ratio	Lower	Upper
154	100		
153	115.7	90.6	135.8
152	70.7	54.9	82.3



#18
Fluorene
Concen: 0.189 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion	166	Resp:	1817
Ion	Ratio	Lower	Upper
166	100		
165	96.0	78.9	118.3
167	12.9	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

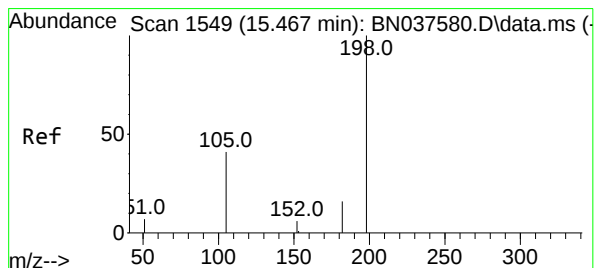
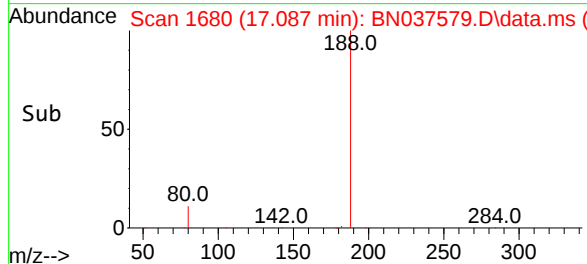
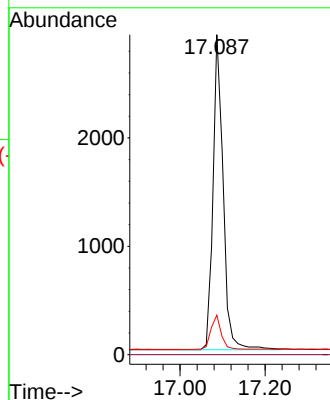
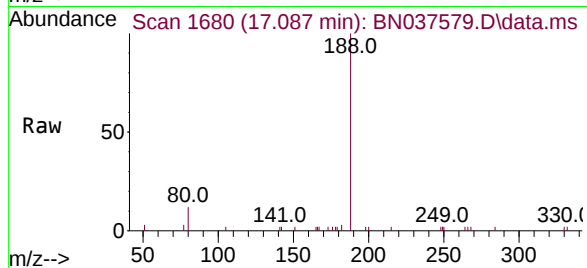
Tgt Ion:188 Resp: 4812

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.3 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.295 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

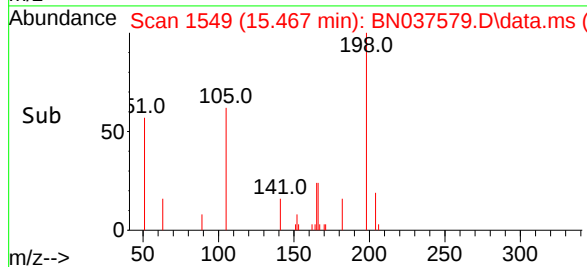
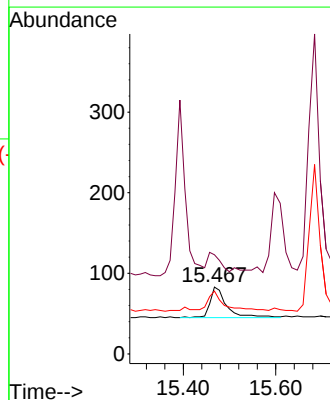
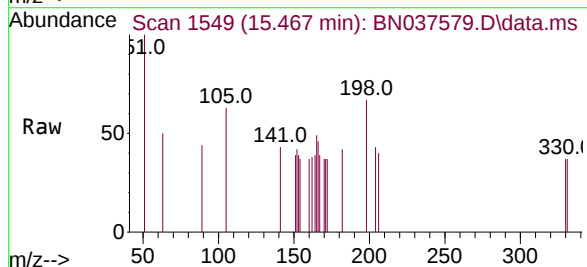
Tgt Ion:198 Resp: 100

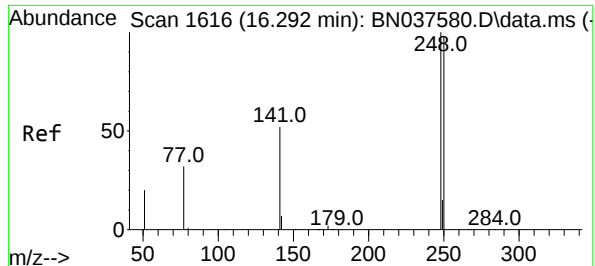
Ion Ratio Lower Upper

198 100

51 148.2 81.0 121.6#

105 94.0 52.5 78.7#

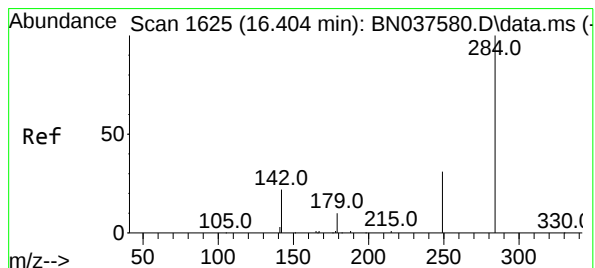
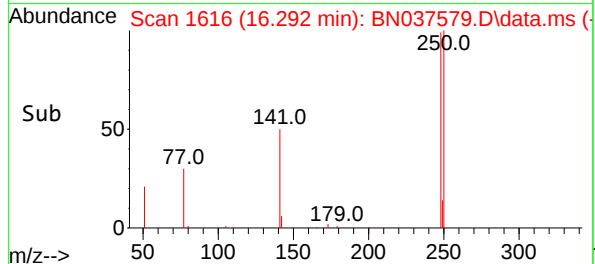
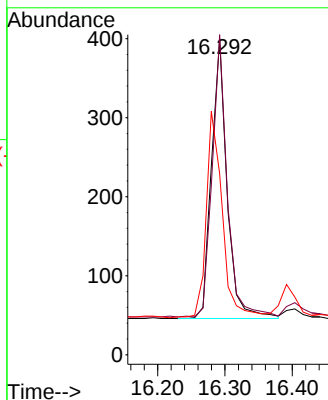
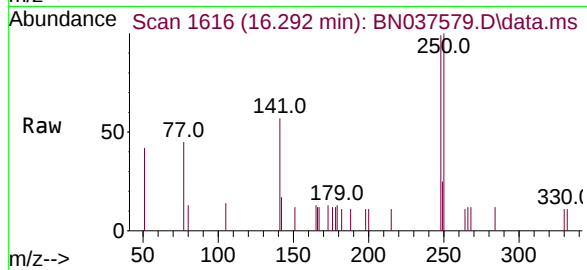




#21
4-Bromophenyl-phenylether
Concen: 0.187 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

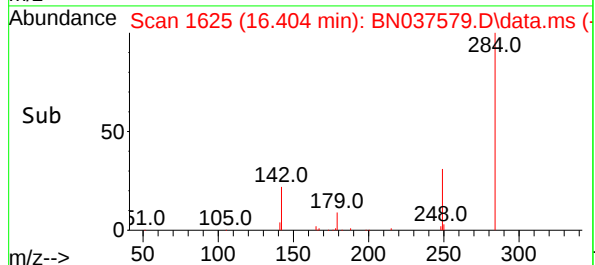
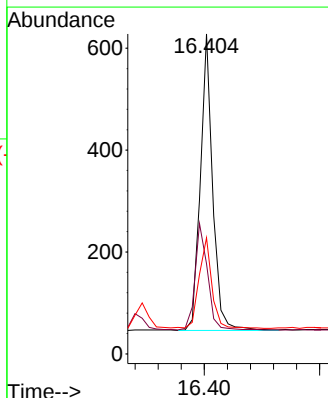
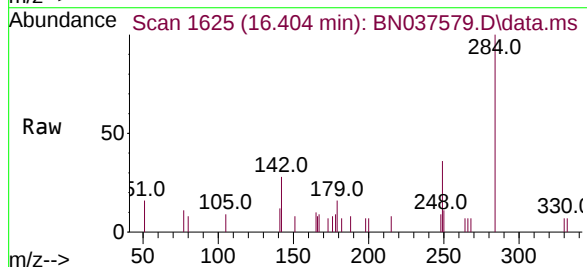
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

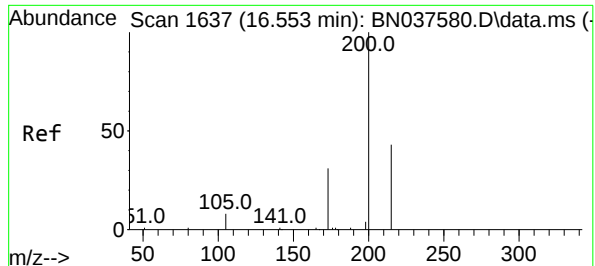
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.3	78.6	118.0
141	57.3	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.202 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.3	29.8	44.6
249	32.6	26.0	39.0

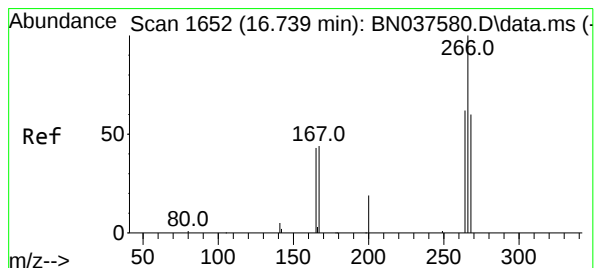
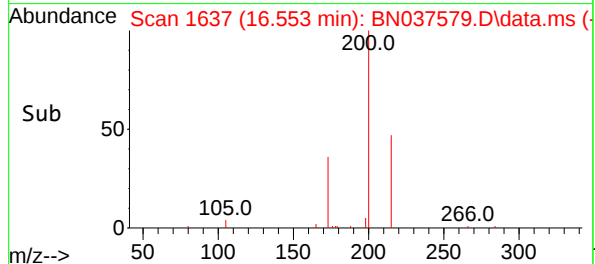
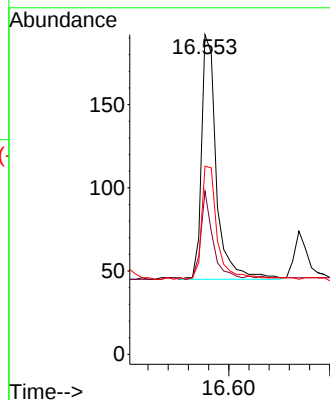
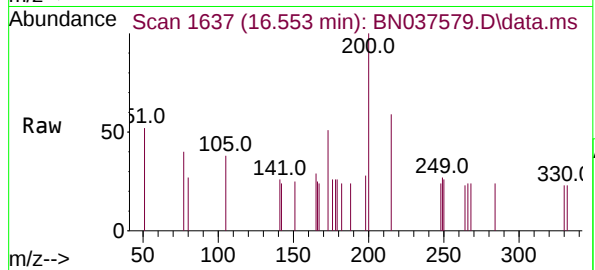




#23
Atrazine
Concen: 0.177 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

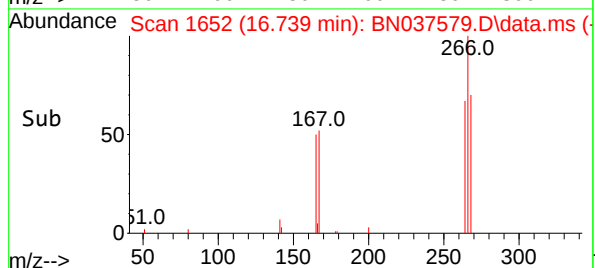
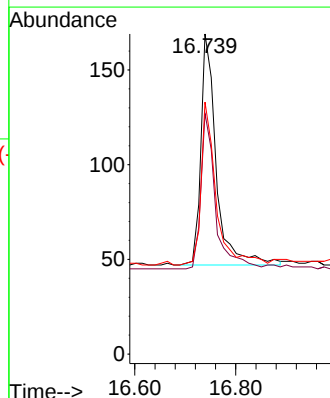
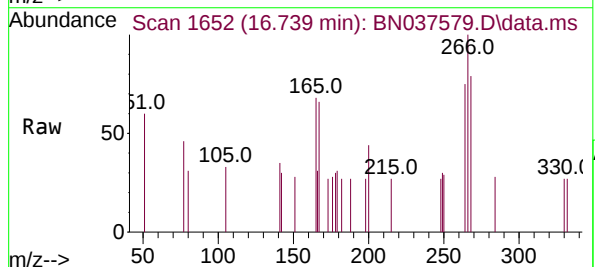
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

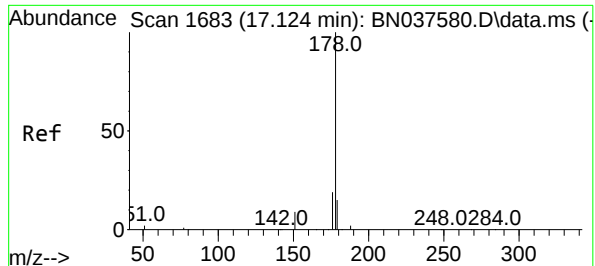
Tgt Ion:200 Resp: 303
Ion Ratio Lower Upper
200 100
173 51.0 31.0 46.4#
215 58.9 39.4 59.0



#24
Pentachlorophenol
Concen: 0.173 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:266 Resp: 260
Ion Ratio Lower Upper
266 100
264 63.5 49.6 74.4
268 68.1 49.2 73.8

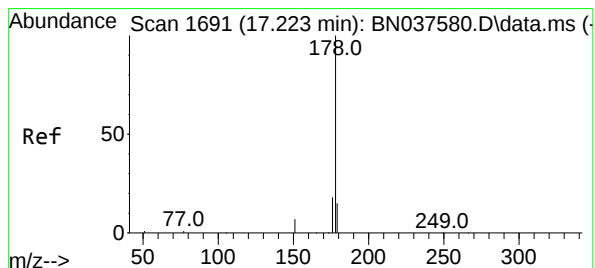
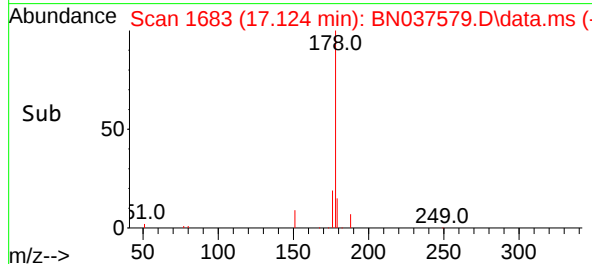
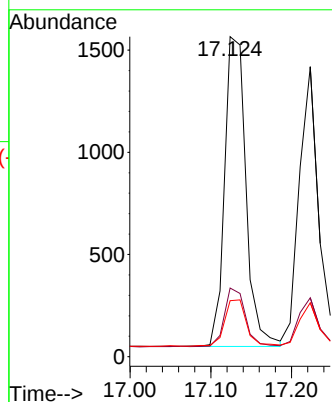
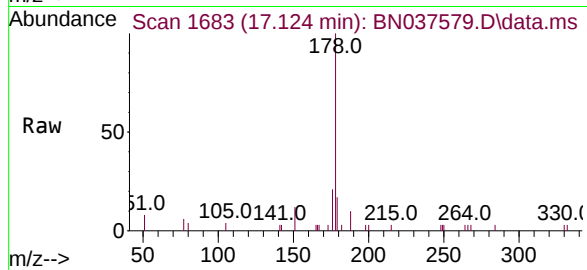




#25
Phenanthrene
Concen: 0.191 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

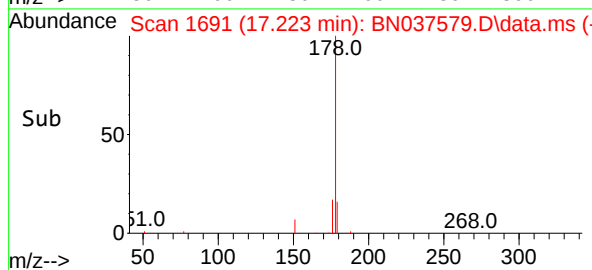
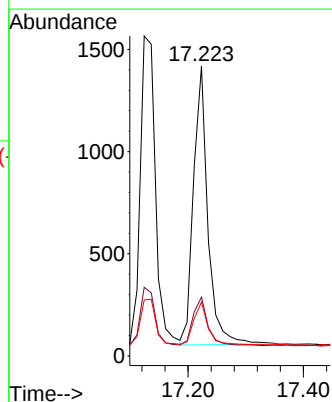
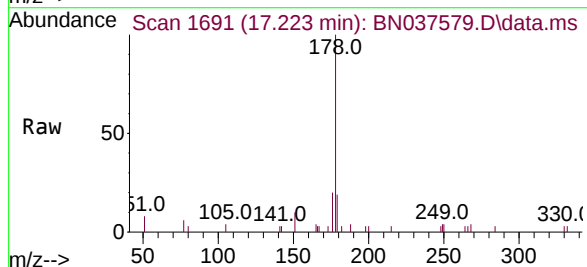
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

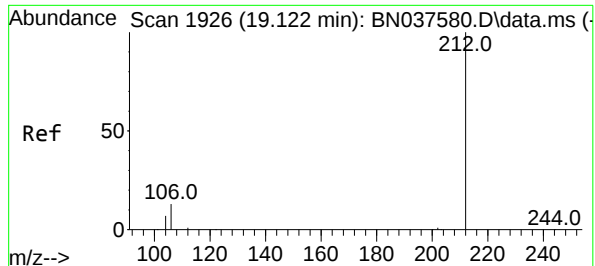
Tgt Ion:178 Resp: 2796
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.183 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:178 Resp: 2371
Ion Ratio Lower Upper
178 100
176 18.0 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.184 ng

RT: 19.123 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

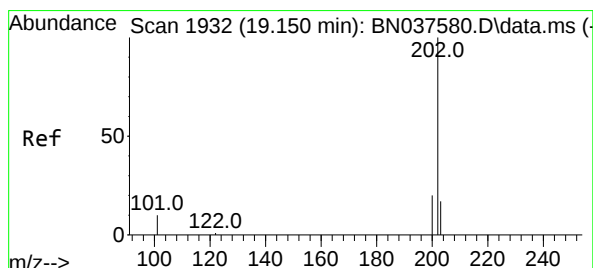
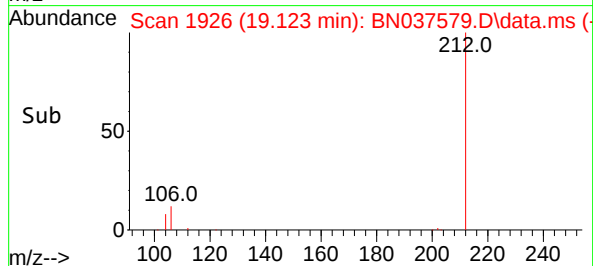
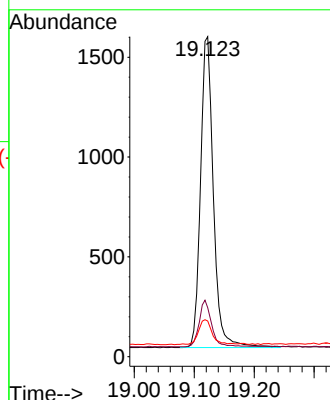
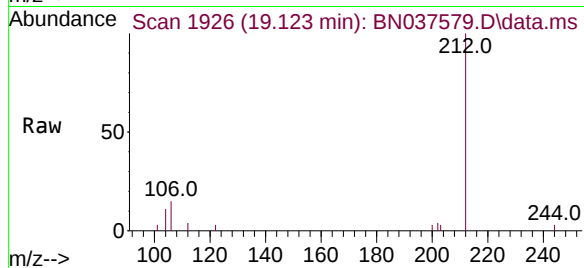
Tgt Ion:212 Resp: 2323

Ion Ratio Lower Upper

212 100

106 14.5 11.5 17.3

104 8.7 6.6 9.8



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

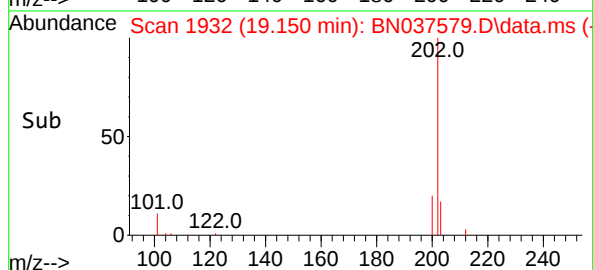
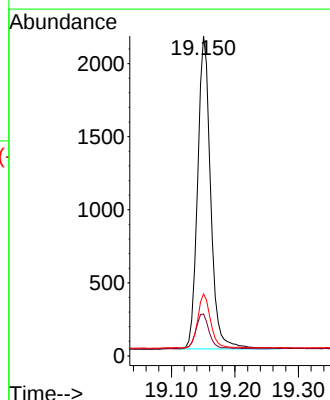
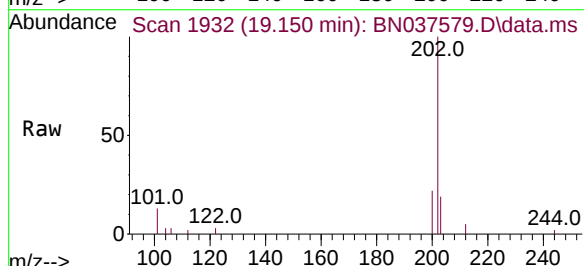
Tgt Ion:202 Resp: 3041

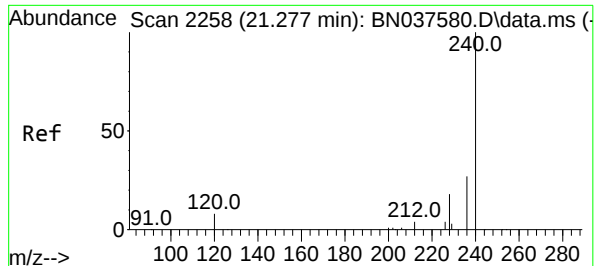
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 16.9 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

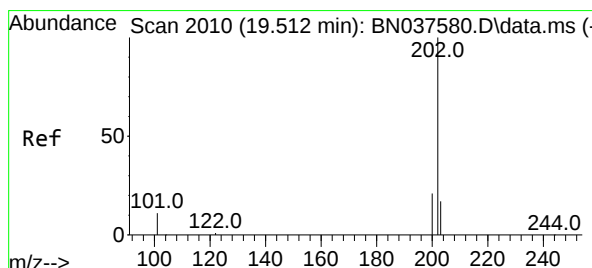
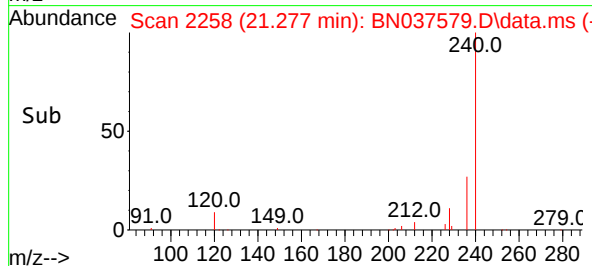
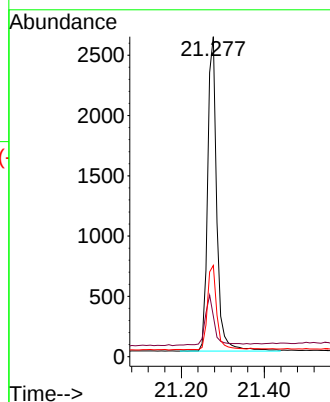
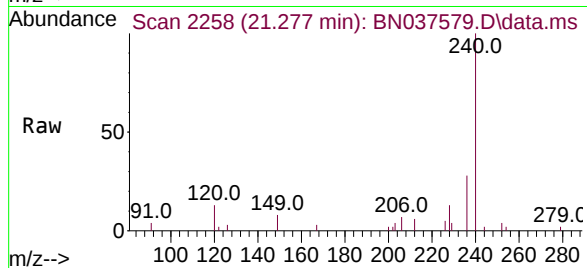
Tgt Ion:240 Resp: 4019

Ion Ratio Lower Upper

240 100

120 12.7 8.9 13.3

236 28.5 22.6 33.8



#30

Pyrene

Concen: 0.199 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

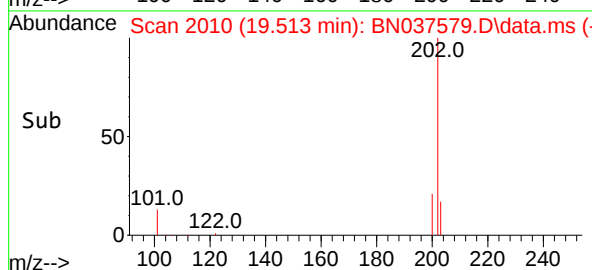
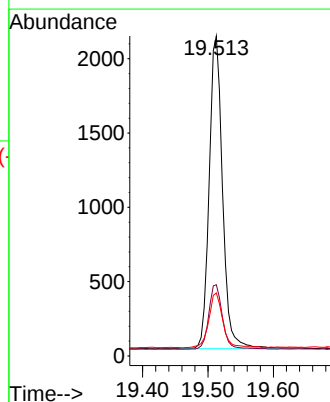
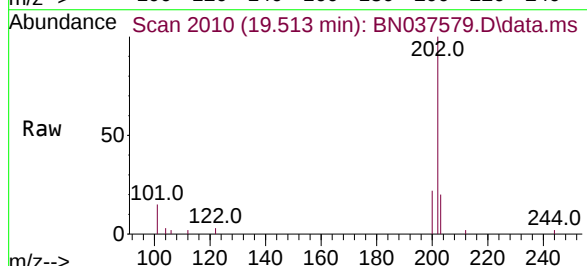
Tgt Ion:202 Resp: 2987

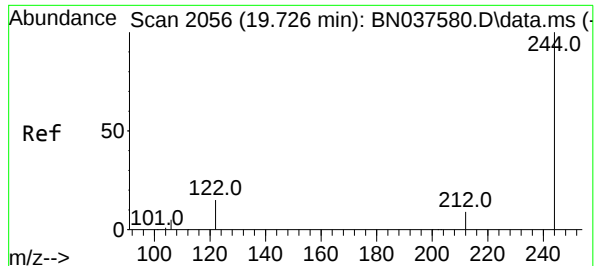
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 18.5 14.3 21.5

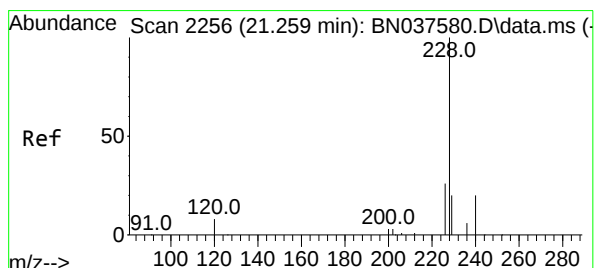
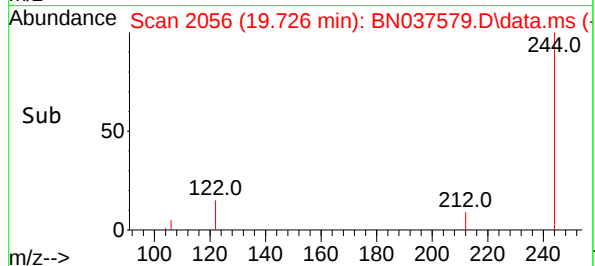
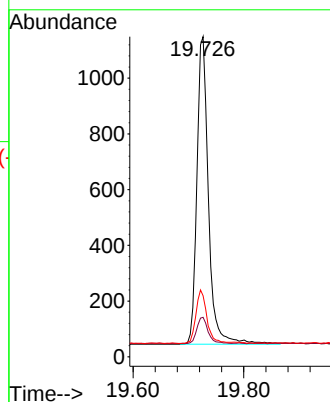
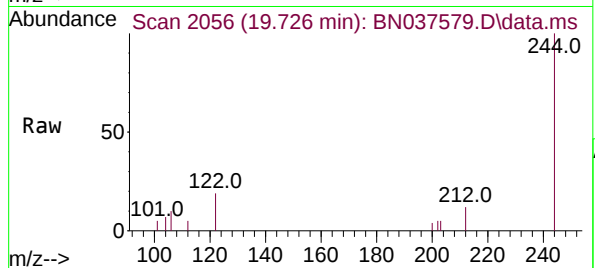




#31
Terphenyl-d14
Concen: 0.195 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

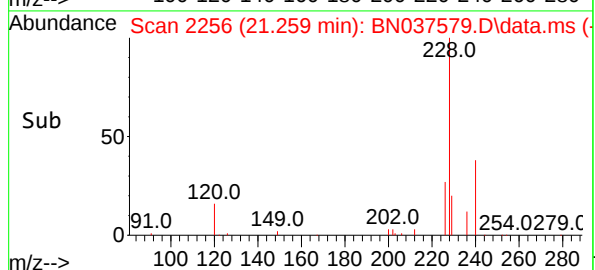
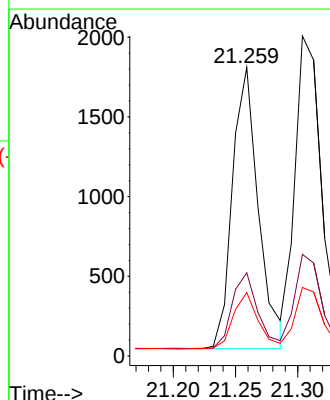
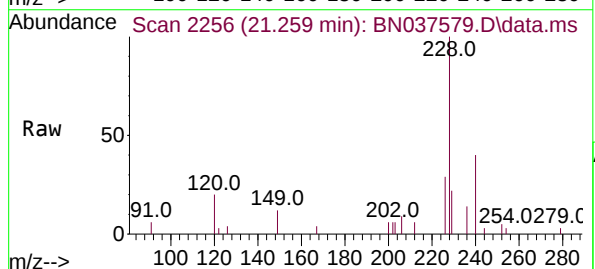
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

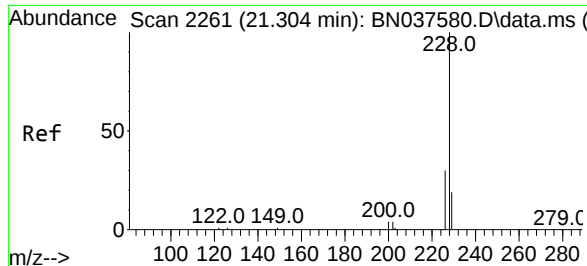
Tgt Ion:244 Resp: 1609
Ion Ratio Lower Upper
244 100
212 12.4 8.2 12.2#
122 19.1 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.191 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:228 Resp: 2563
Ion Ratio Lower Upper
228 100
226 28.8 21.5 32.3
229 22.0 16.5 24.7





#33

Chrysene

Concen: 0.204 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

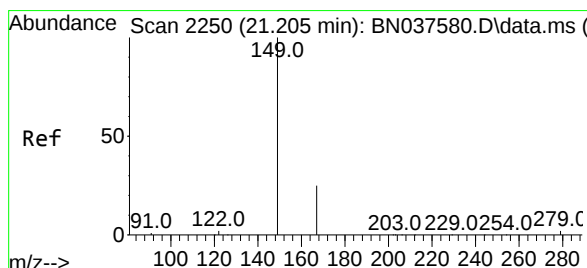
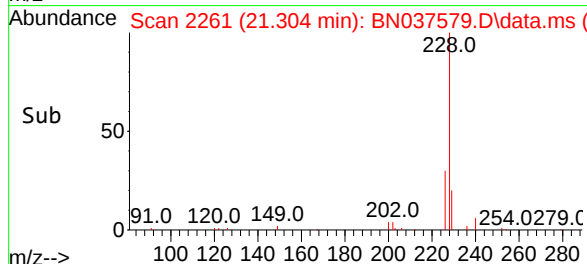
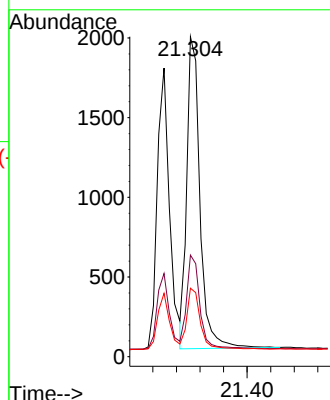
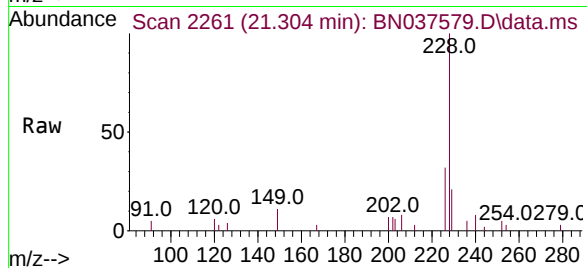
Tgt Ion:228 Resp: 3045

Ion Ratio Lower Upper

228 100

226 31.8 24.9 37.3

229 21.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.188 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

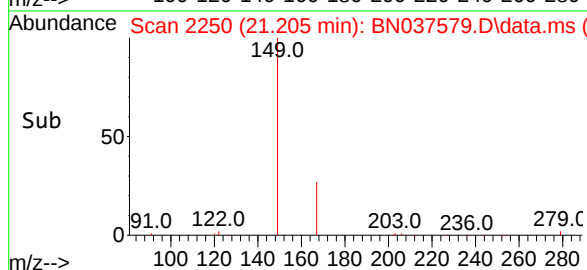
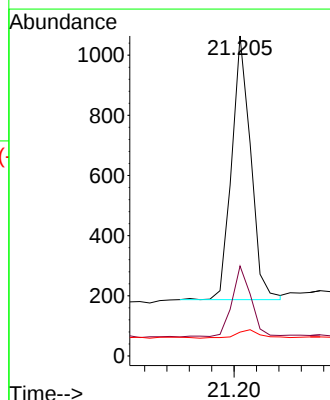
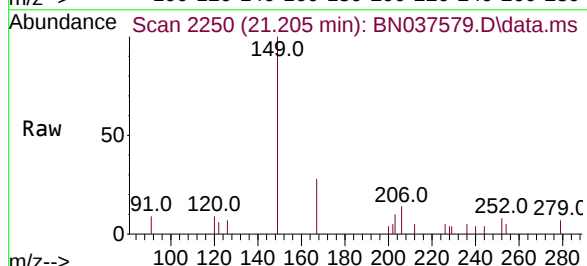
Tgt Ion:149 Resp: 1040

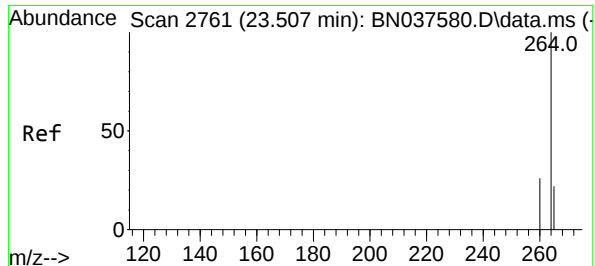
Ion Ratio Lower Upper

149 100

167 27.2 20.5 30.7

279 4.0 2.6 4.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

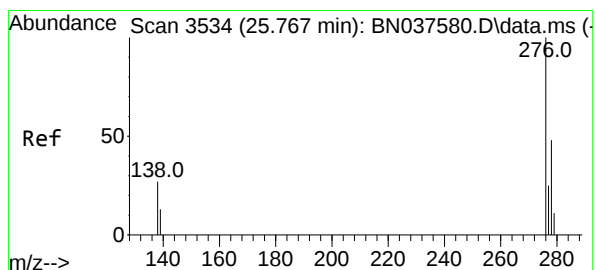
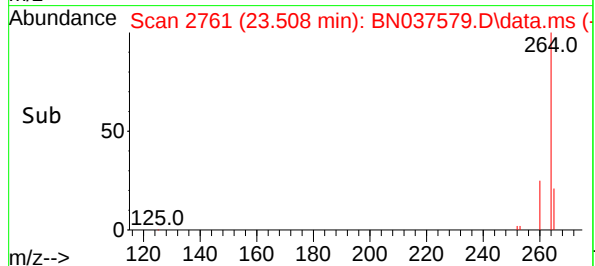
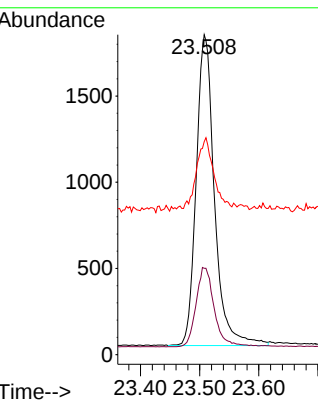
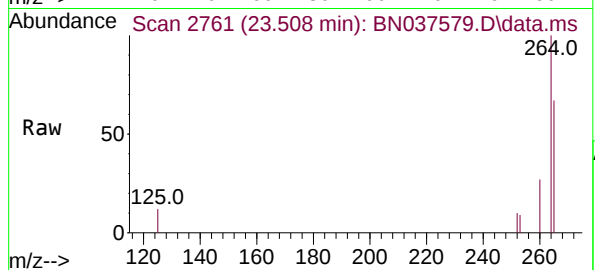
Tgt Ion:264 Resp: 3859

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 66.5 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.173 ng

RT: 25.771 min Scan# 3535

Delta R.T. 0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

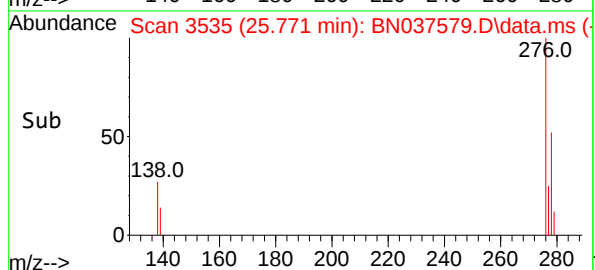
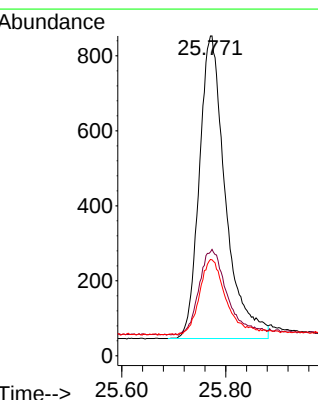
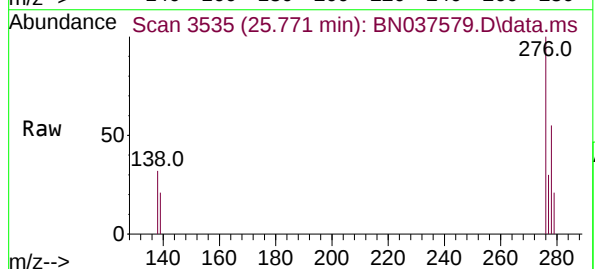
Tgt Ion:276 Resp: 2821

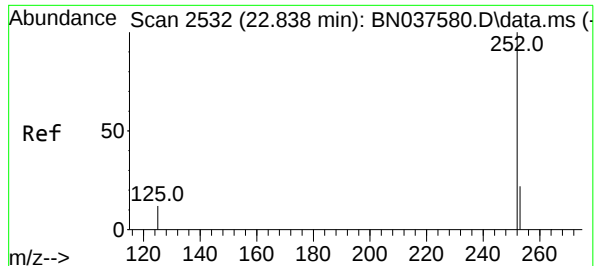
Ion Ratio Lower Upper

276 100

138 30.8 23.3 34.9

277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.181 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

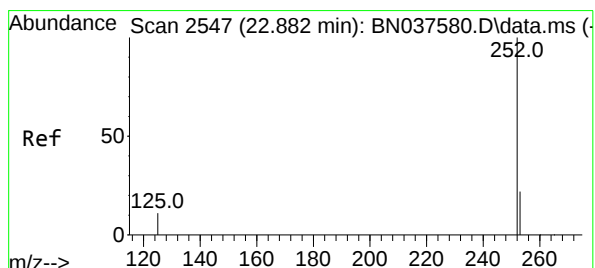
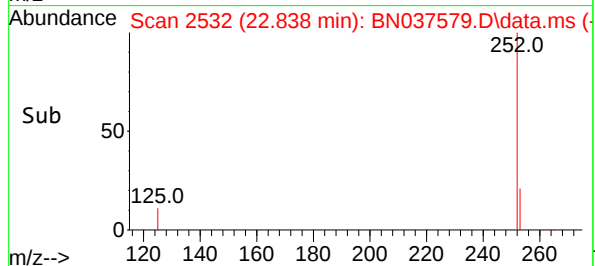
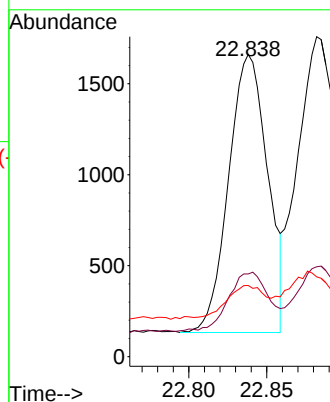
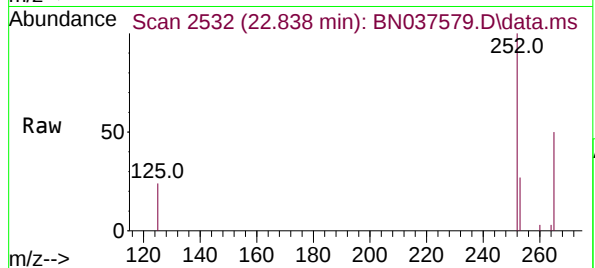
Tgt Ion:252 Resp: 2653

Ion Ratio Lower Upper

252 100

253 27.4 20.0 30.0

125 23.5 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 0.185 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

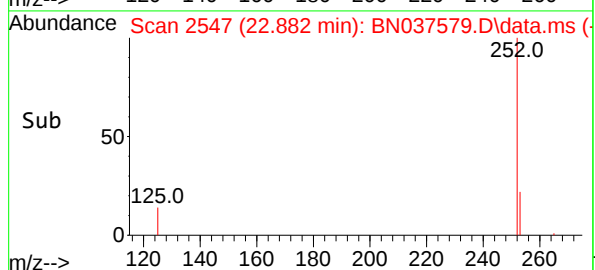
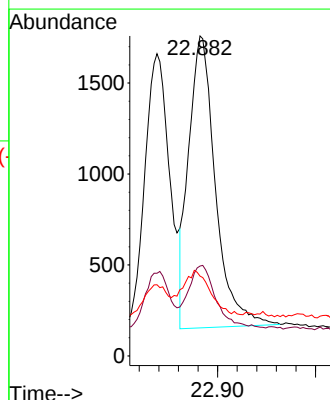
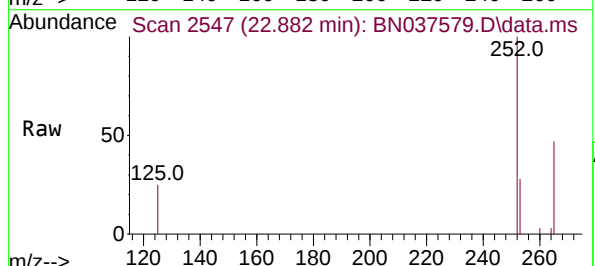
Tgt Ion:252 Resp: 3049

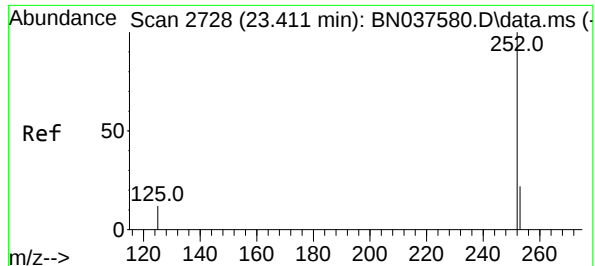
Ion Ratio Lower Upper

252 100

253 28.1 19.9 29.9

125 25.0 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 0.181 ng

RT: 23.414 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

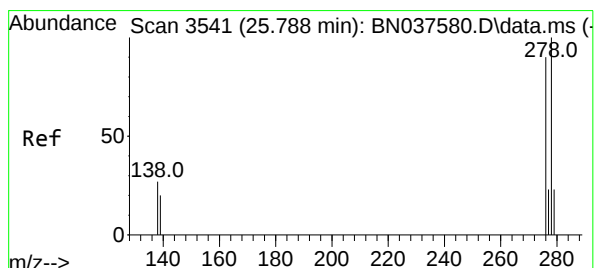
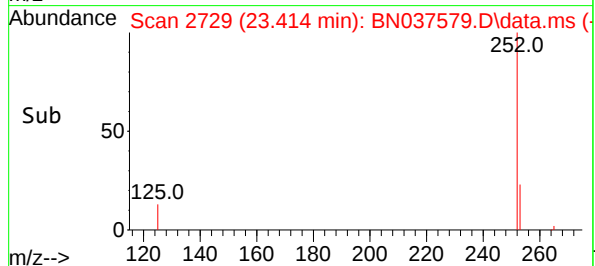
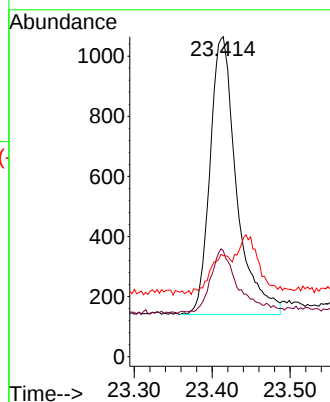
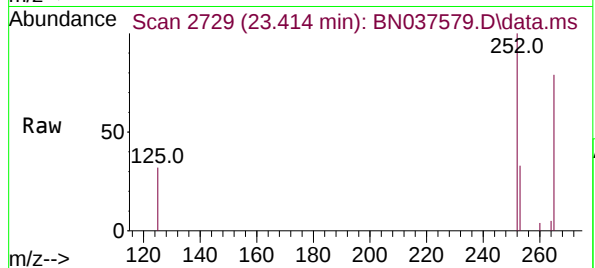
Tgt Ion:252 Resp: 2191

Ion Ratio Lower Upper

252 100

253 33.1 21.6 32.4#

125 31.5 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.171 ng

RT: 25.785 min Scan# 3540

Delta R.T. -0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

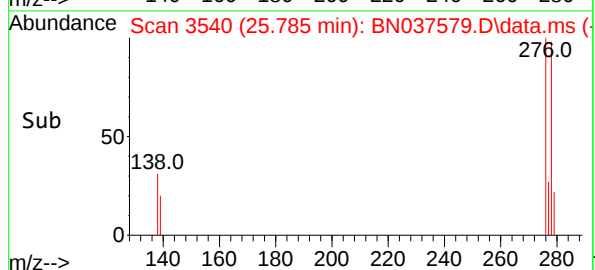
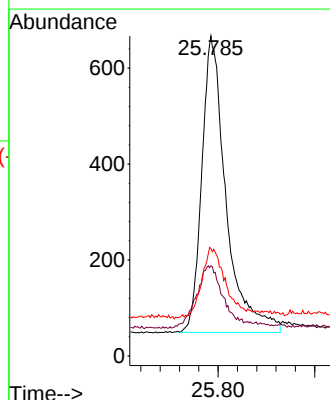
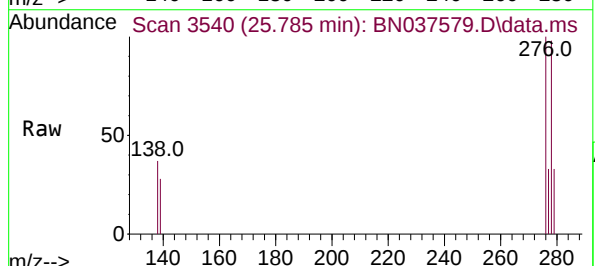
Tgt Ion:278 Resp: 2157

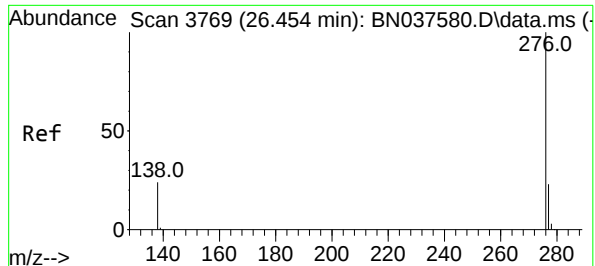
Ion Ratio Lower Upper

278 100

139 28.2 18.3 27.5#

279 33.6 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.185 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037579.D

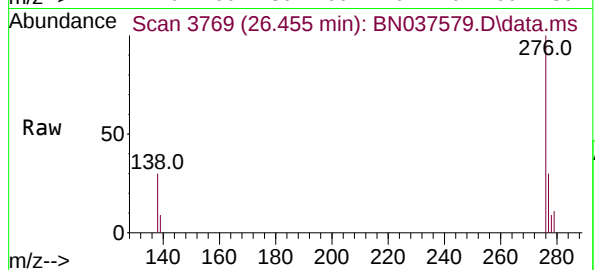
Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



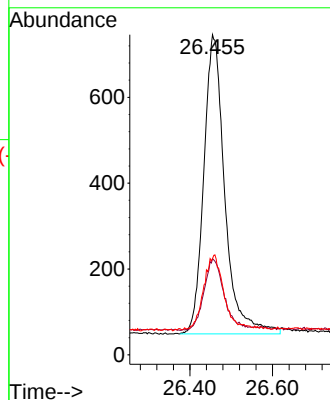
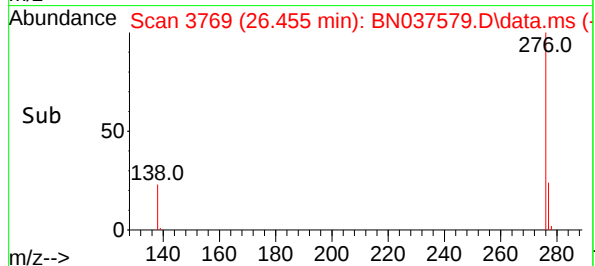
Tgt Ion:276 Resp: 2459

Ion Ratio Lower Upper

276 100

277 30.0 21.0 31.4

138 30.0 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037580.D
 Acq On : 12 Aug 2025 17:39
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Aug 13 04:48:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

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

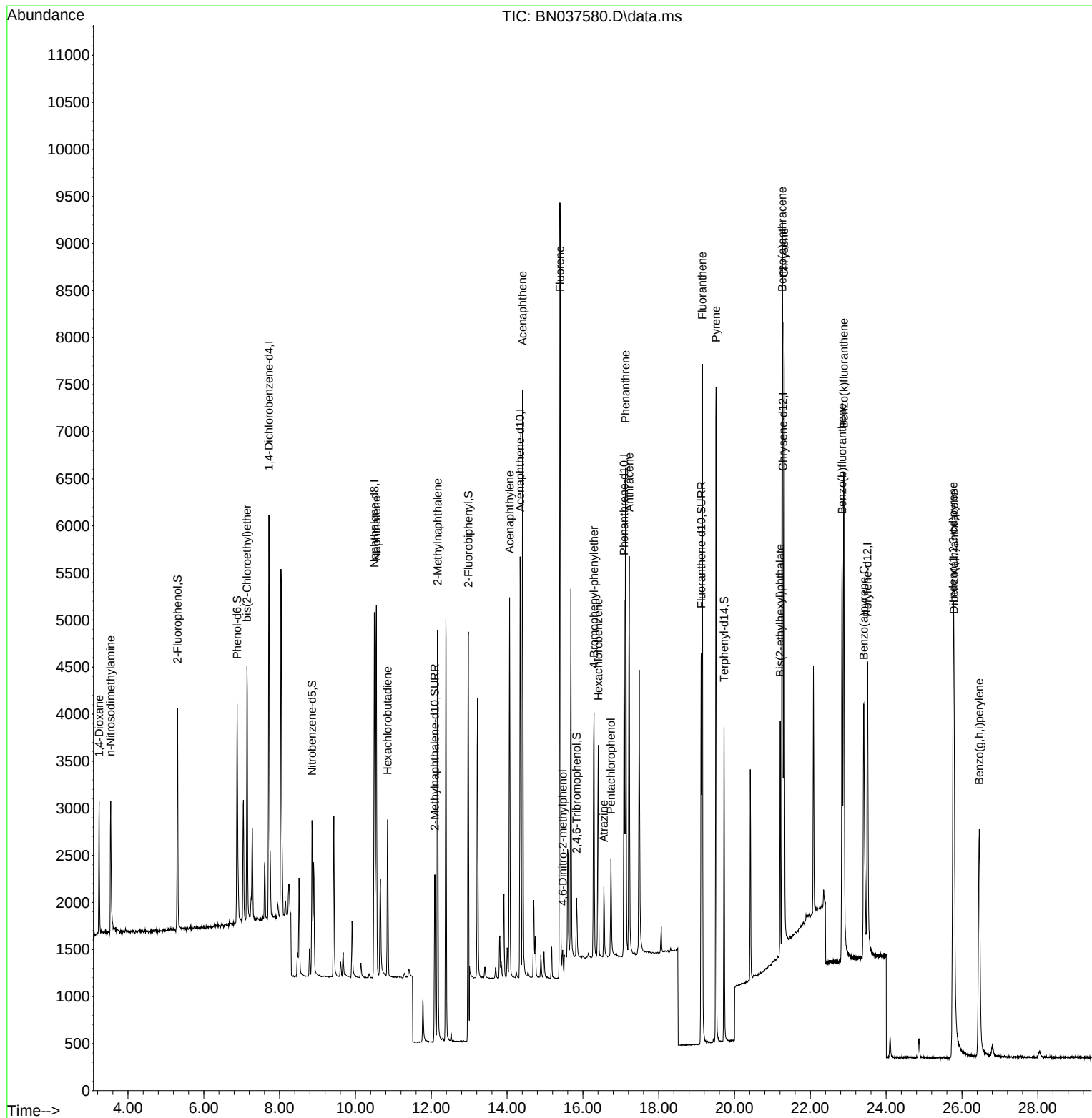
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2104	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5140	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2534	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5032	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4317	0.400	ng	0.00
35) Perylene-d12	23.507	264	4188	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1869	0.392	ng	0.00
5) Phenol-d6	6.879	99	2197	0.383	ng	0.00
8) Nitrobenzene-d5	8.854	82	1348	0.372	ng	0.00
11) 2-Methylnaphthalene-d10	12.090	152	2609	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	396	0.357	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	5829	0.398	ng	0.00
27) Fluoranthene-d10	19.122	212	4801	0.363	ng	0.00
31) Terphenyl-d14	19.726	244	3436	0.387	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	832	0.413	ng	99
3) n-Nitrosodimethylamine	3.543	42	1027	0.399	ng	100
6) bis(2-Chloroethyl)ether	7.139	93	2053	0.397	ng	100
9) Naphthalene	10.551	128	5329	0.389	ng	100
10) Hexachlorobutadiene	10.850	225	1347	0.403	ng	# 100
12) 2-Methylnaphthalene	12.166	142	3264	0.380	ng	100
16) Acenaphthylene	14.067	152	4334	0.382	ng	100
17) Acenaphthene	14.409	154	2969	0.384	ng	100
18) Fluorene	15.392	166	3861	0.382	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	231	0.433	ng	100
21) 4-Bromophenyl-phenylether	16.292	248	1177	0.372	ng	100
22) Hexachlorobenzene	16.404	284	1790	0.399	ng	100
23) Atrazine	16.553	200	654	0.366	ng	100
24) Pentachlorophenol	16.739	266	571	0.363	ng	100
25) Phenanthrene	17.124	178	5887	0.385	ng	100
26) Anthracene	17.223	178	5009	0.370	ng	100
28) Fluoranthene	19.150	202	6535	0.372	ng	100
30) Pyrene	19.512	202	6320	0.392	ng	100
32) Benzo(a)anthracene	21.259	228	5452	0.378	ng	100
33) Chrysene	21.304	228	6185	0.385	ng	100
34) Bis(2-ethylhexyl)phtha...	21.205	149	2252	0.378	ng	100
36) Indeno(1,2,3-cd)pyrene	25.767	276	6753	0.383	ng	100
37) Benzo(b)fluoranthene	22.838	252	5604	0.353	ng	100
38) Benzo(k)fluoranthene	22.882	252	6915	0.386	ng	100
39) Benzo(a)pyrene	23.411	252	4812	0.366	ng	100
40) Dibenzo(a,h)anthracene	25.788	278	5118	0.374	ng	100
41) Benzo(g,h,i)perylene	26.454	276	5284	0.366	ng	100

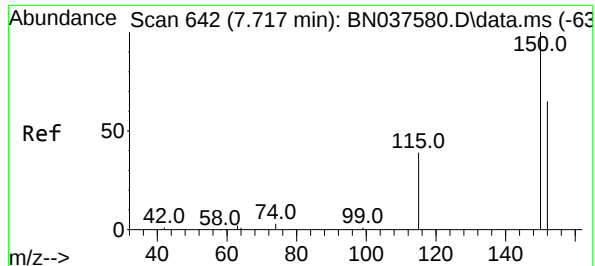
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037580.D
Acq On : 12 Aug 2025 17:39
Operator : RC/JU
Sample : SSTDICC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.4

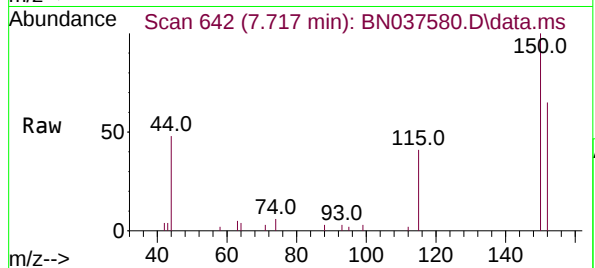
Quant Time: Aug 13 04:48:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration



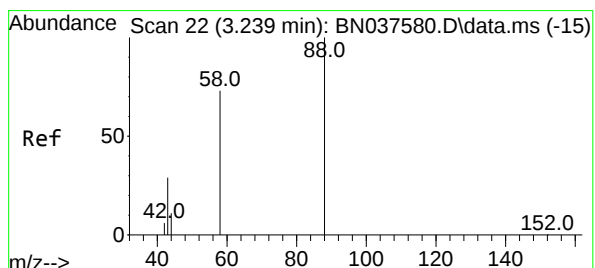
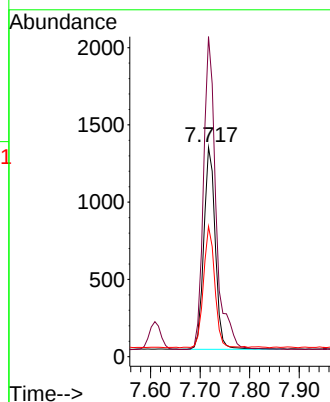
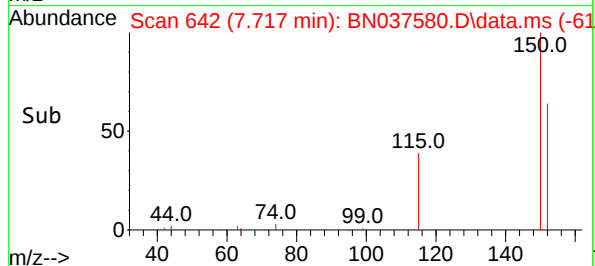


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

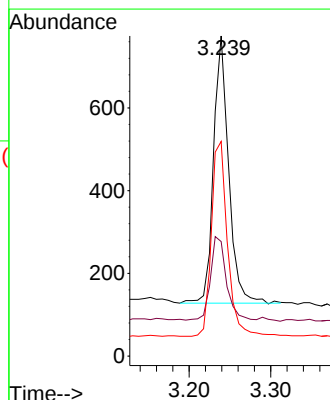
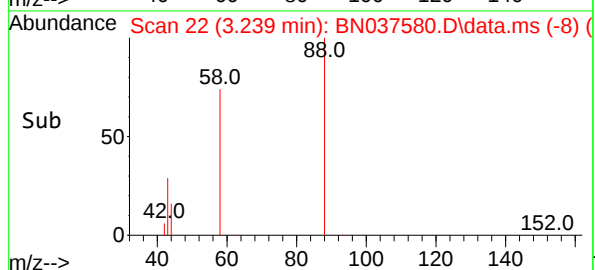
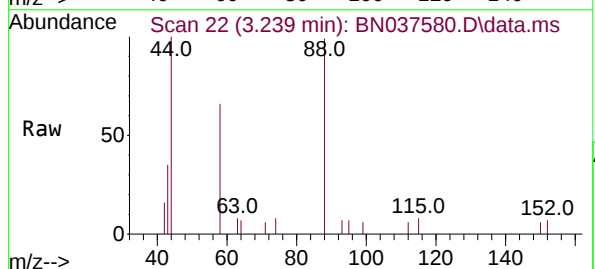


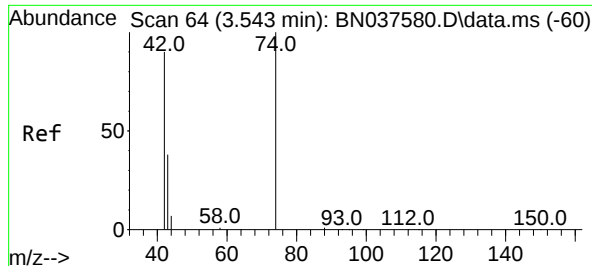
Tgt Ion: 152 Resp: 2104
Ion Ratio Lower Upper
152 100
150 152.8 122.2 183.4
115 62.2 49.8 74.6



#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion: 88 Resp: 832
Ion Ratio Lower Upper
88 100
43 33.2 25.8 38.6
58 77.6 61.2 91.8

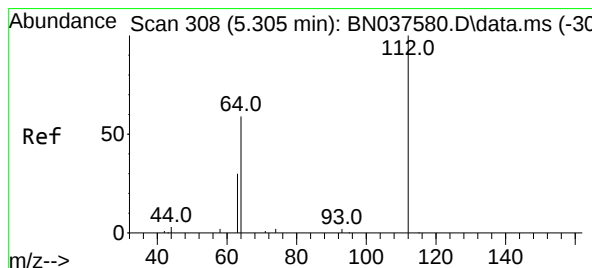
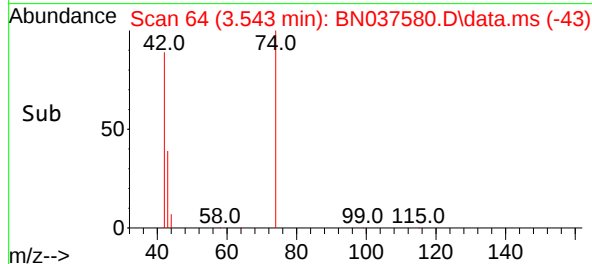
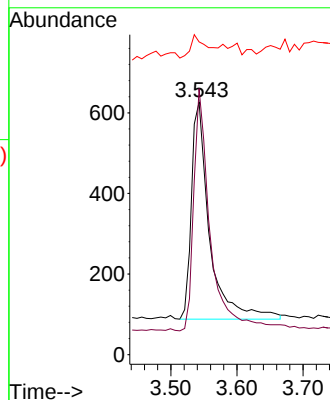
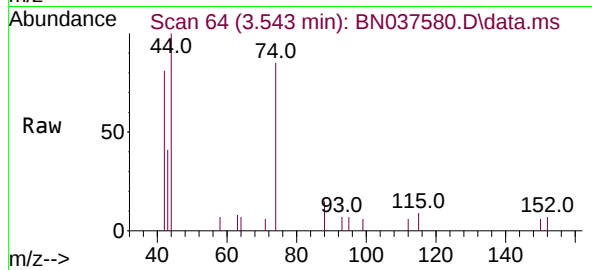




#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

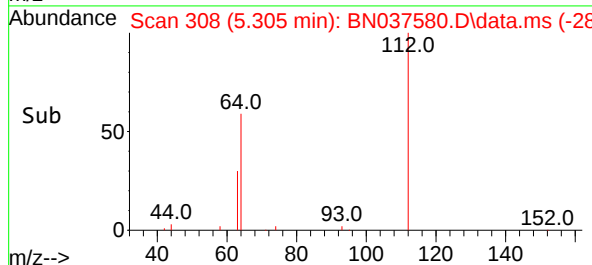
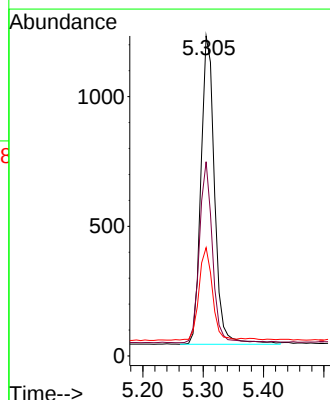
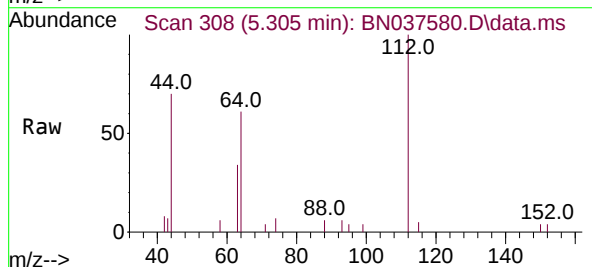
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

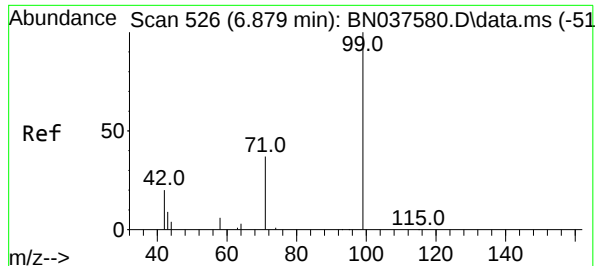
Tgt Ion: 42 Resp: 1027
Ion Ratio Lower Upper
42 100
74 102.7 82.0 123.0
44 9.8 7.9 11.9



#4
2-Fluorophenol
Concen: 0.392 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion: 112 Resp: 1869
Ion Ratio Lower Upper
112 100
64 56.1 44.9 67.3
63 29.3 23.4 35.2





#5

Phenol-d6

Concen: 0.383 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

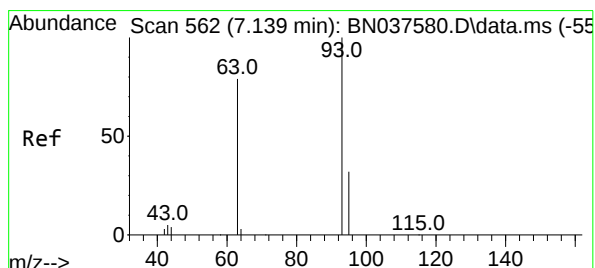
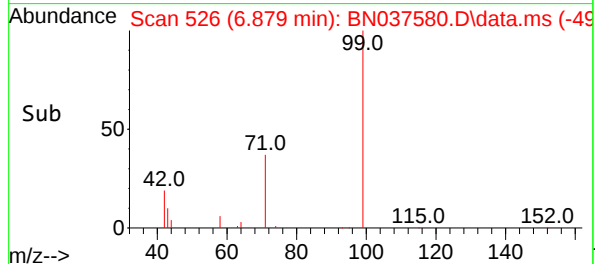
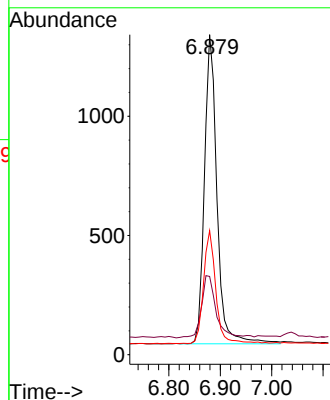
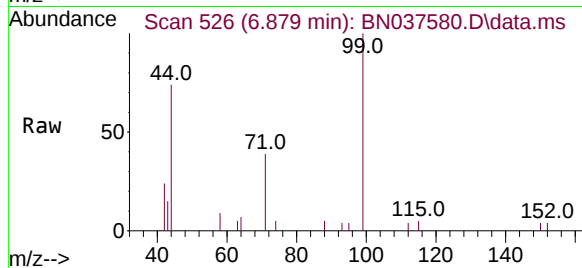
Tgt Ion: 99 Resp: 2197

Ion Ratio Lower Upper

99 100

42 23.1 18.5 27.7

71 35.7 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.397 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

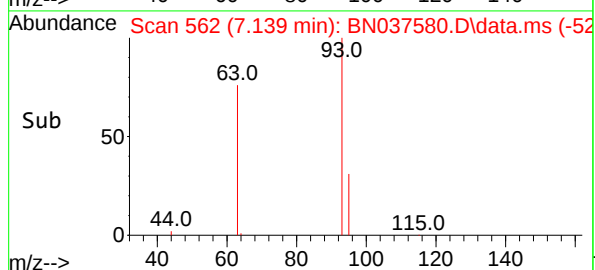
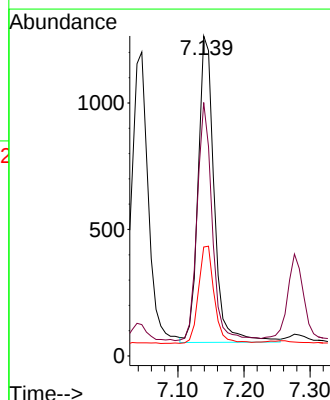
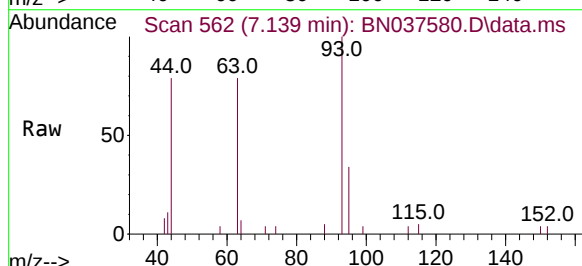
Tgt Ion: 93 Resp: 2053

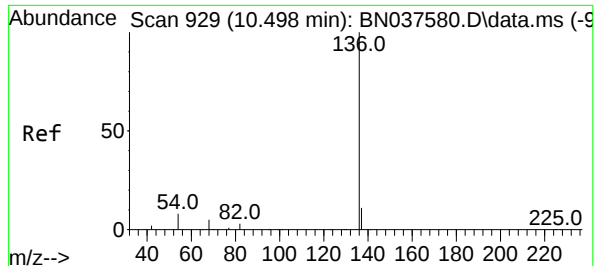
Ion Ratio Lower Upper

93 100

63 72.5 58.0 87.0

95 31.1 24.9 37.3

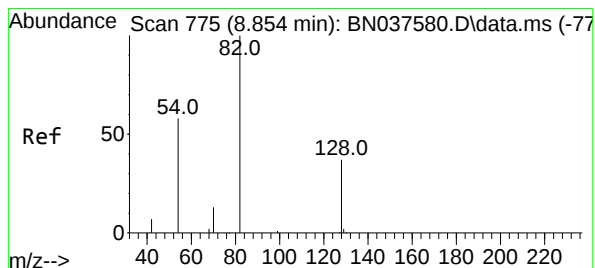
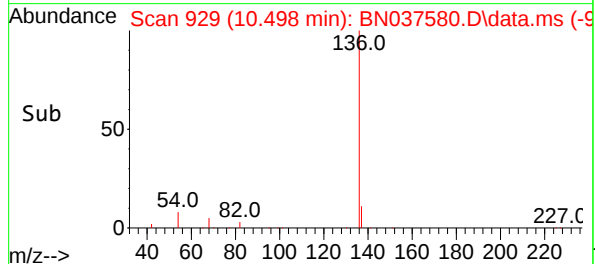
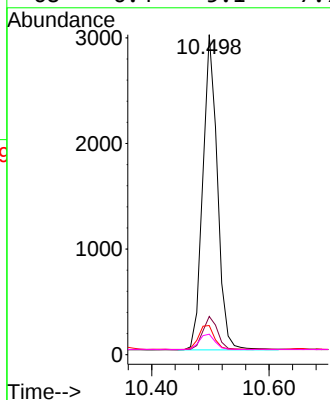
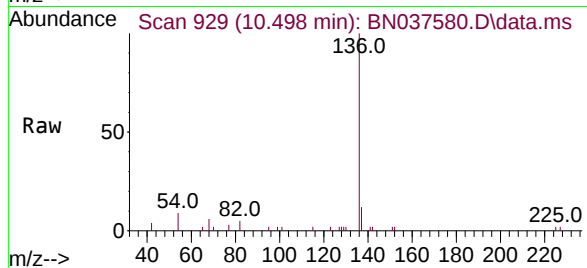




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

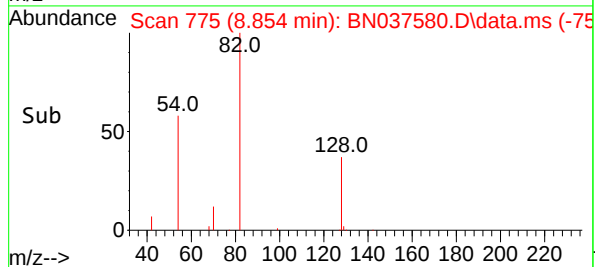
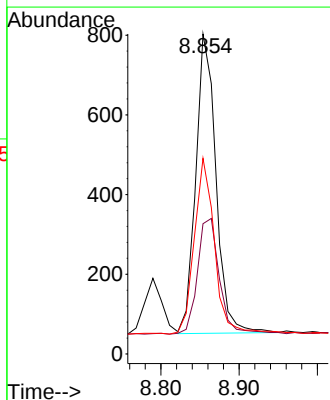
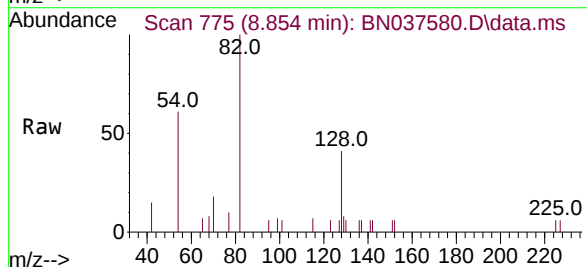
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

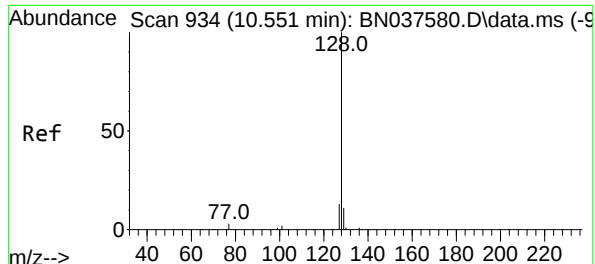
Tgt Ion:	136	Resp:	5140
Ion Ratio	Lower	Upper	
136	100		
137	11.9	9.5	14.3
54	9.1	7.3	10.9
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion:	82	Resp:	1348
Ion Ratio	Lower	Upper	
82	100		
128	40.7	32.6	48.8
54	61.1	48.9	73.3

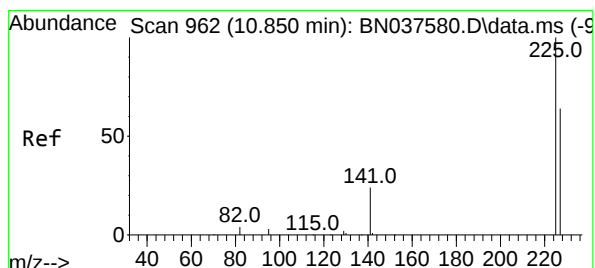
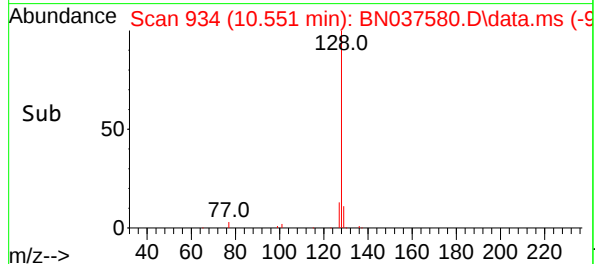
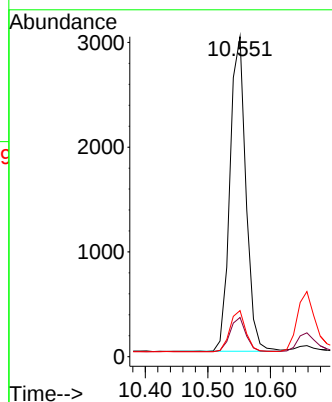
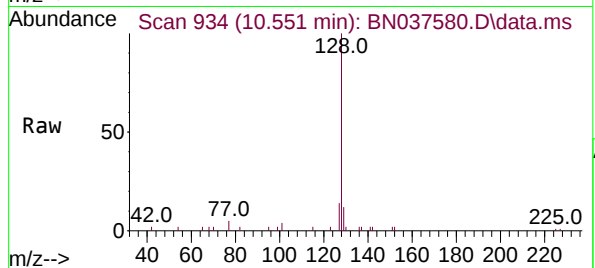




#9
Naphthalene
Concen: 0.389 ng
RT: 10.551 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

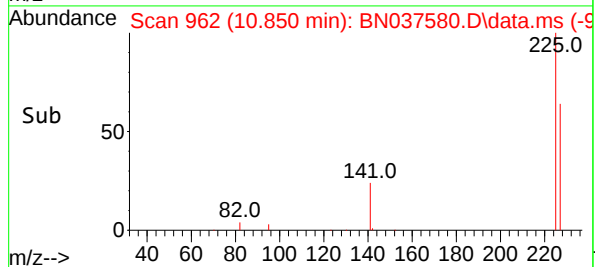
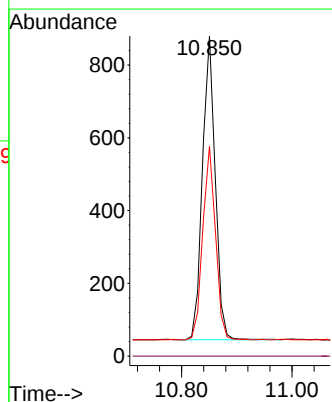
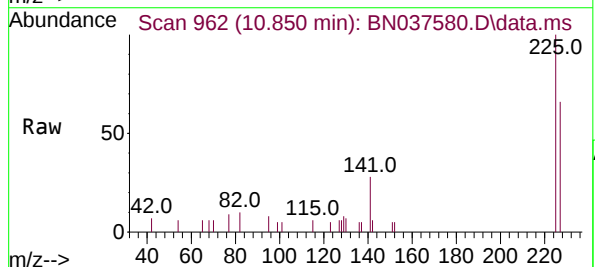
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

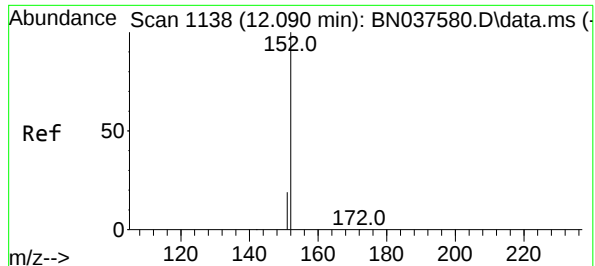
Tgt Ion:128 Resp: 5329
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.4 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.403 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion:225 Resp: 1347
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.8 76.2

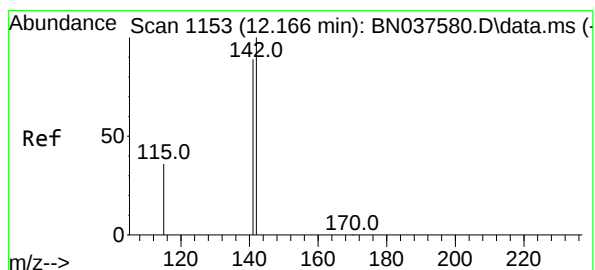
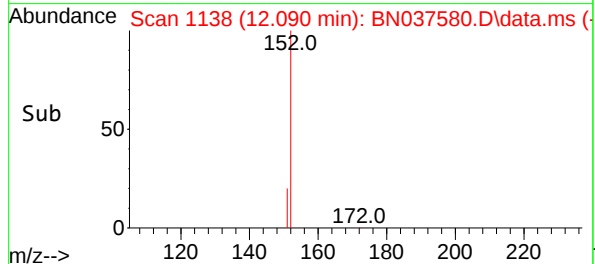
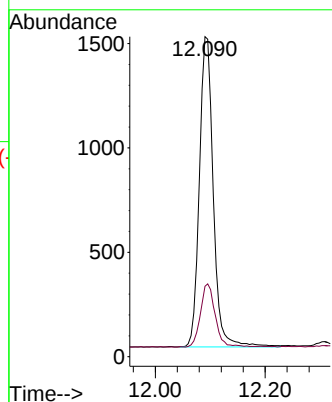
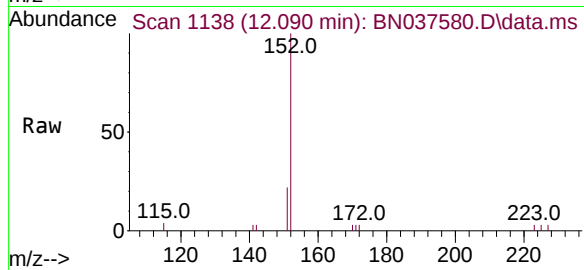




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.090 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

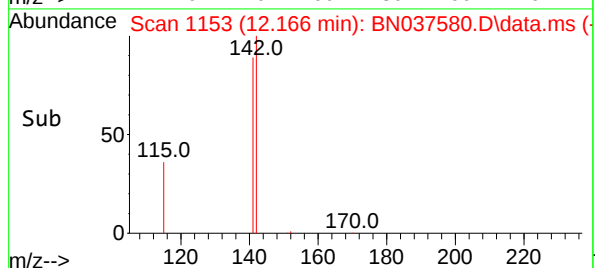
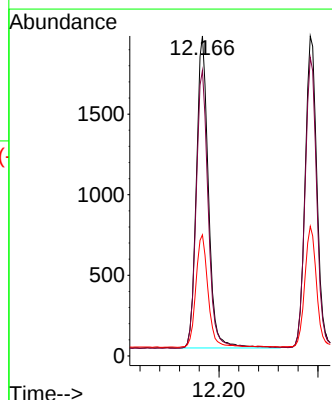
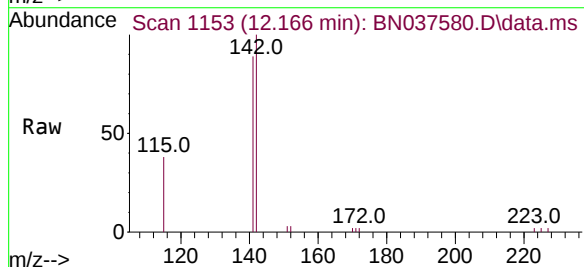
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

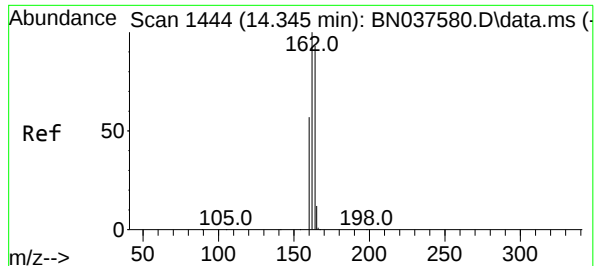
Tgt Ion:152 Resp: 2609
Ion Ratio Lower Upper
152 100
151 21.6 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.380 ng
RT: 12.166 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion:142 Resp: 3264
Ion Ratio Lower Upper
142 100
141 89.2 71.4 107.0
115 37.8 30.2 45.4

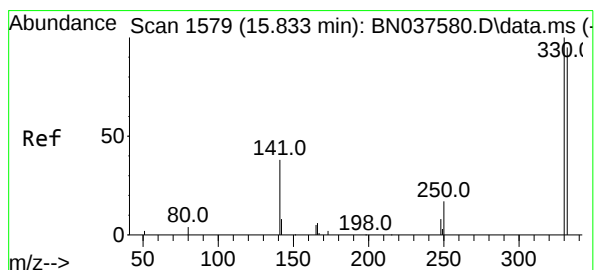
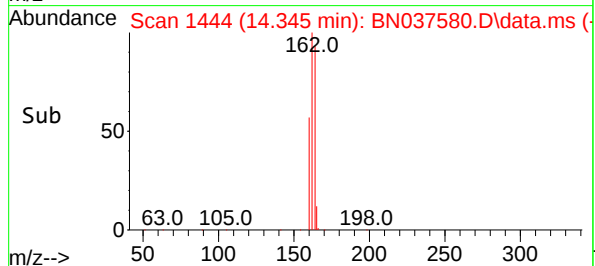
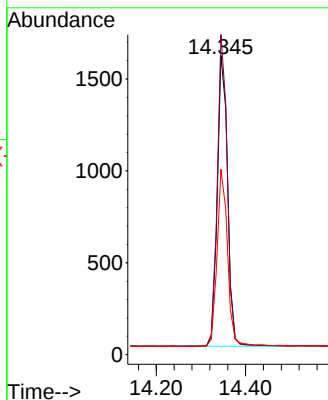
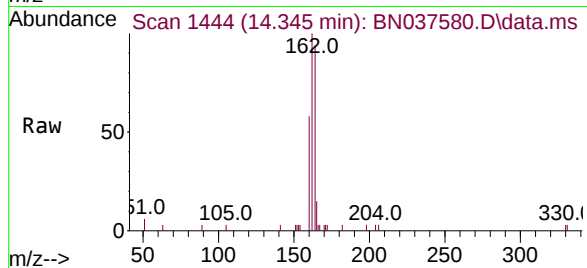




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

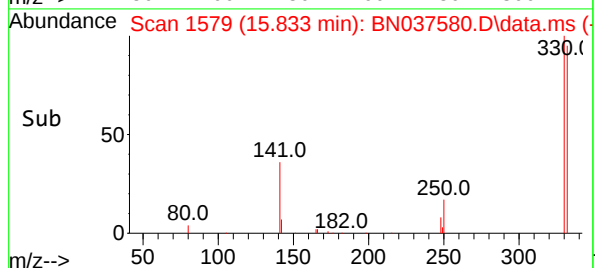
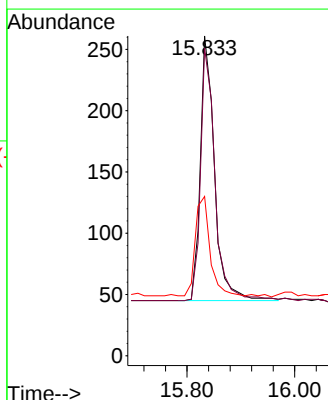
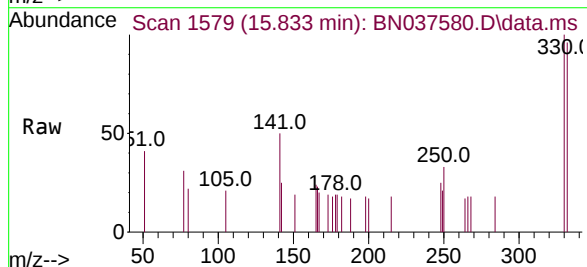
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

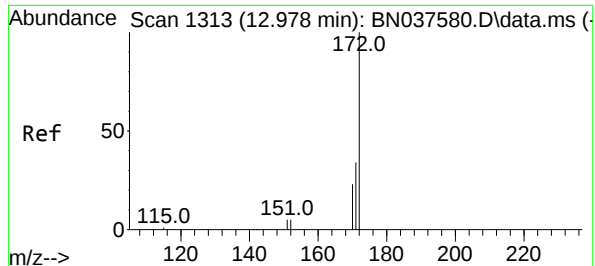
Tgt Ion	164	Resp:	2534
Ion	Ratio	Lower	Upper
164	100		
162	106.9	85.5	128.3
160	61.9	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.357 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	330	Resp:	396
Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.4	116.0
141	38.6	30.9	46.3

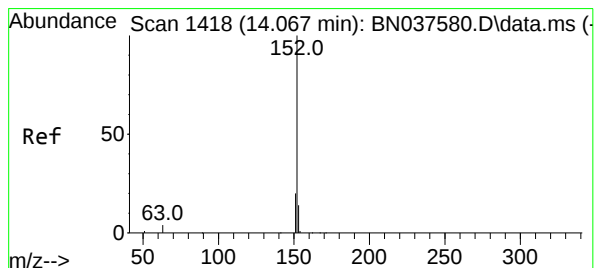
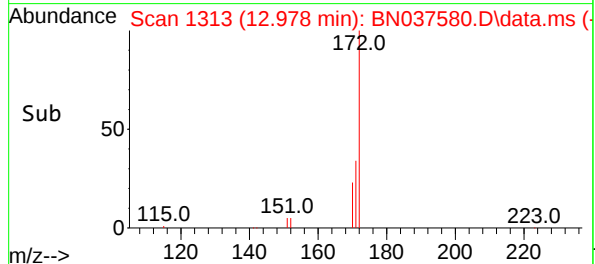
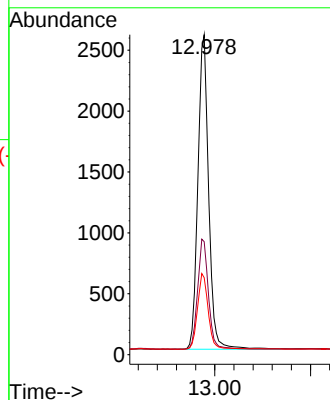
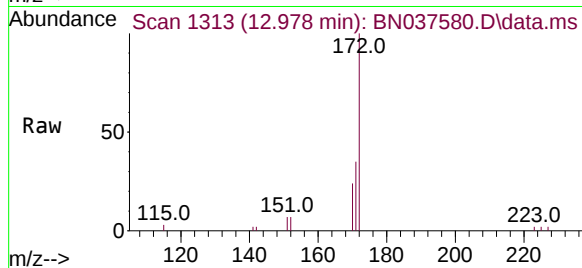




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.978 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

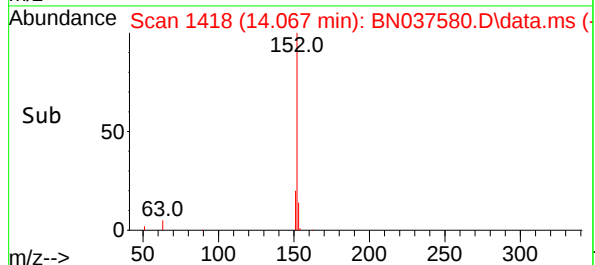
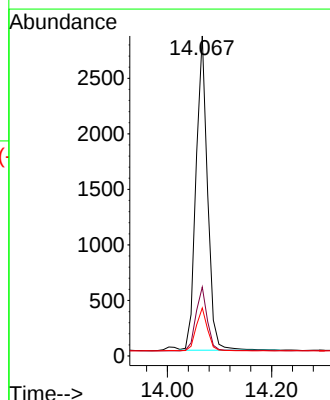
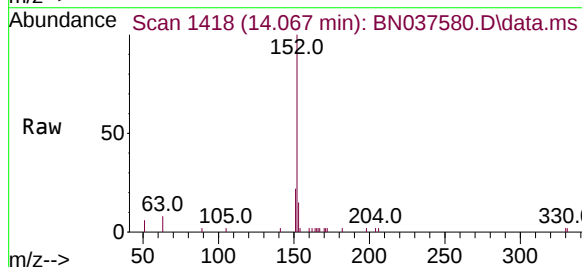
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

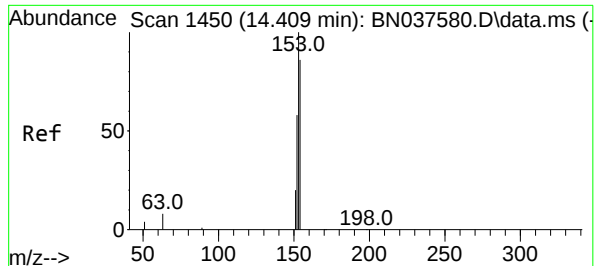
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.4
170	24.0	19.2	28.8



#16
Acenaphthylene
Concen: 0.382 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.4	10.7	16.1

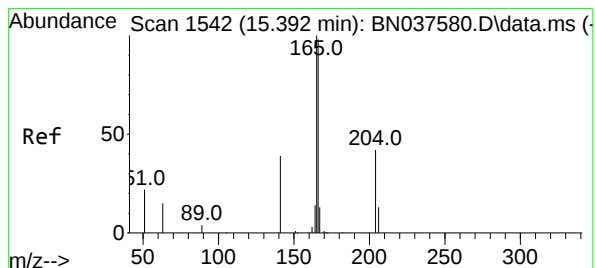
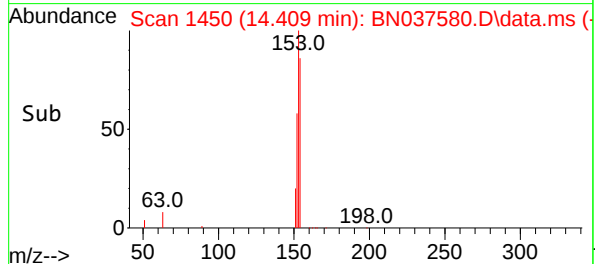
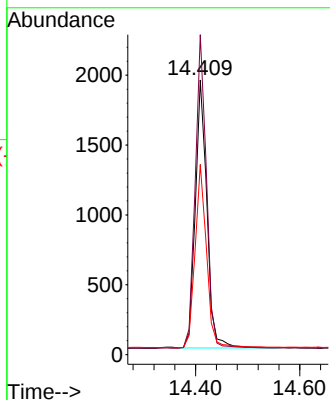
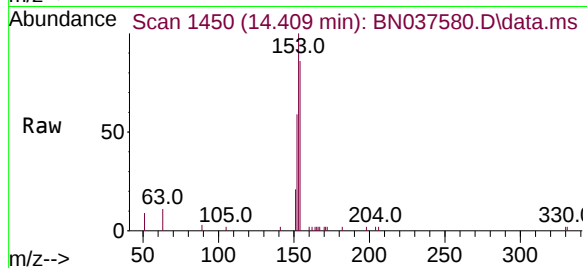




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

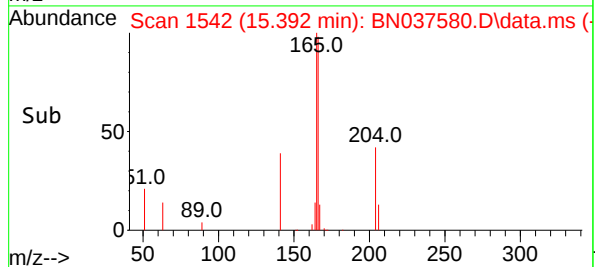
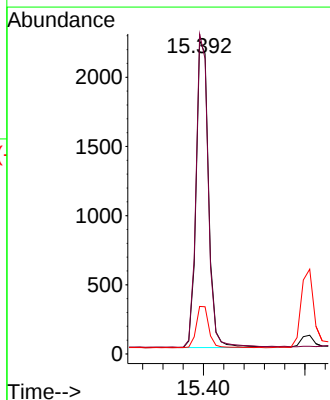
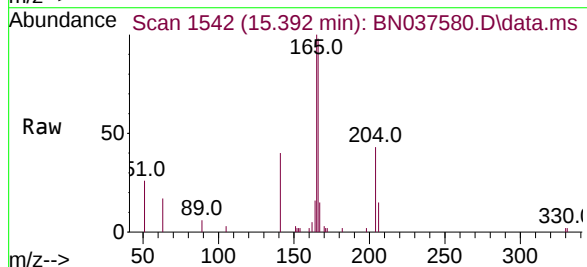
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

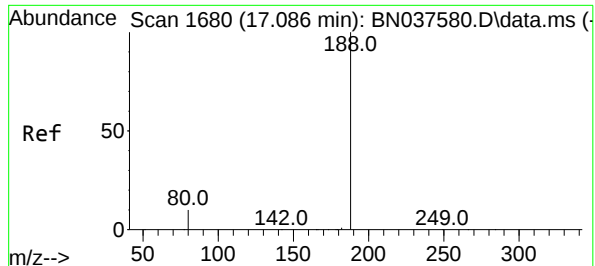
Tgt Ion	154	Resp	2969
Ion Ratio	Lower	Upper	
154	100		
153	113.2	90.6	135.8
152	68.6	54.9	82.3



#18
Fluorene
Concen: 0.382 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	166	Resp	3861
Ion Ratio	Lower	Upper	
166	100		
165	98.6	78.9	118.3
167	13.4	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

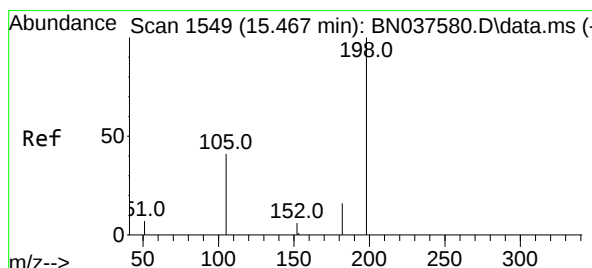
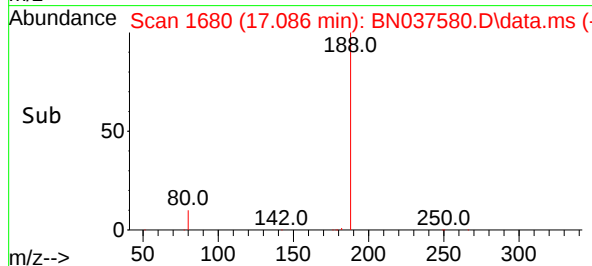
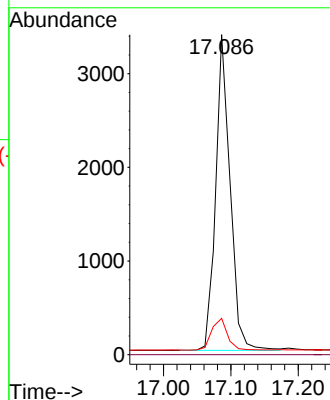
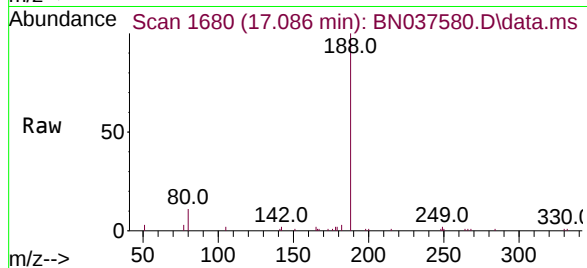
Tgt Ion:188 Resp: 5032

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

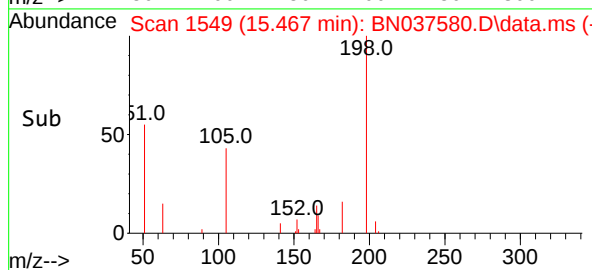
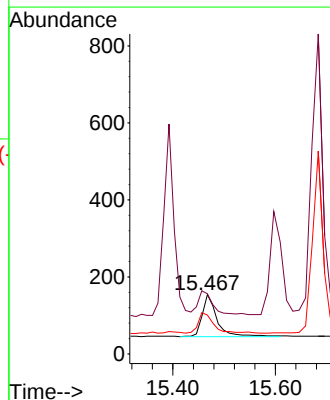
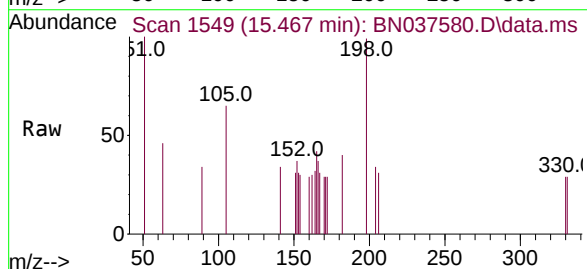
Tgt Ion:198 Resp: 231

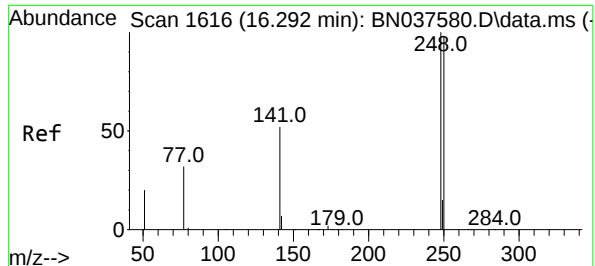
Ion Ratio Lower Upper

198 100

51 101.3 81.0 121.6

105 65.6 52.5 78.7

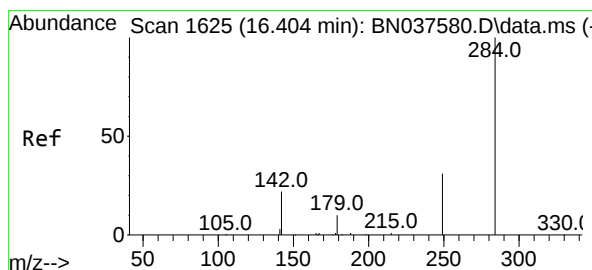
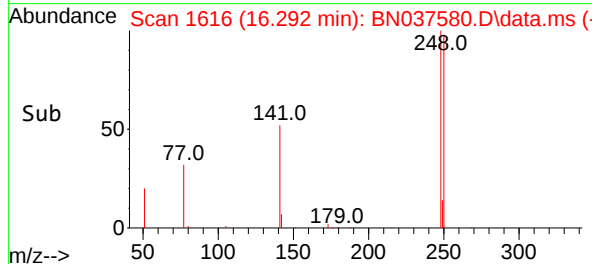
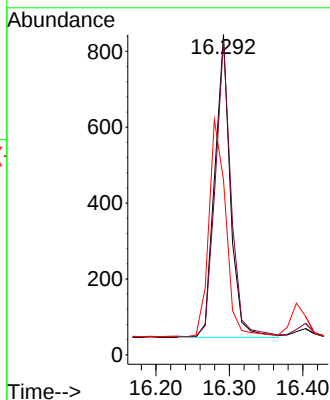
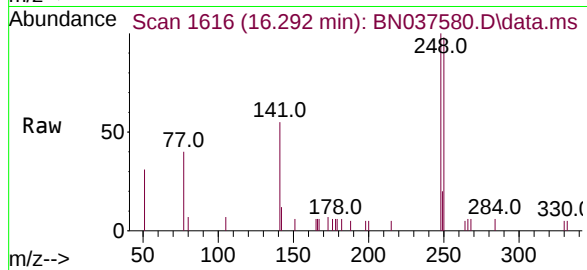




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

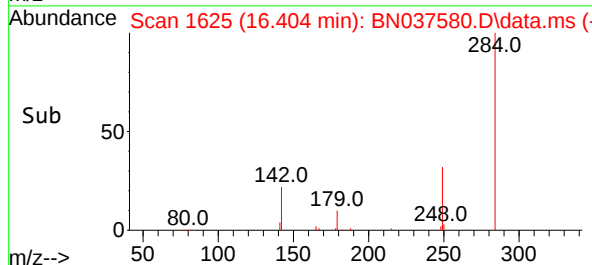
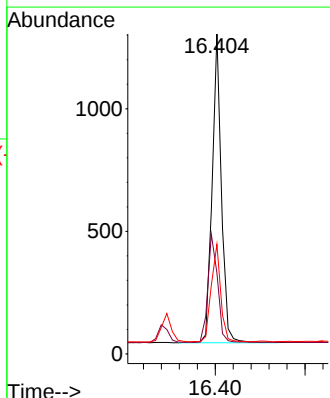
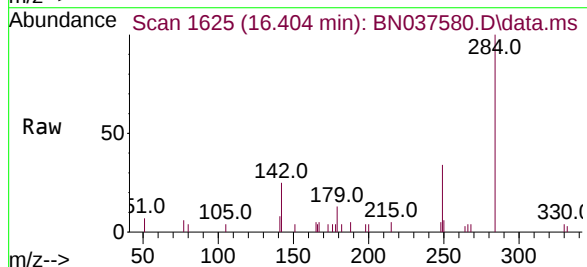
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

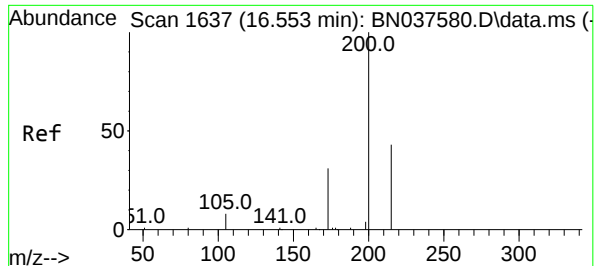
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.6	118.0
141	54.6	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.399 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.9	29.8	44.6
249	32.5	26.0	39.0





#23

Atrazine

Concen: 0.366 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

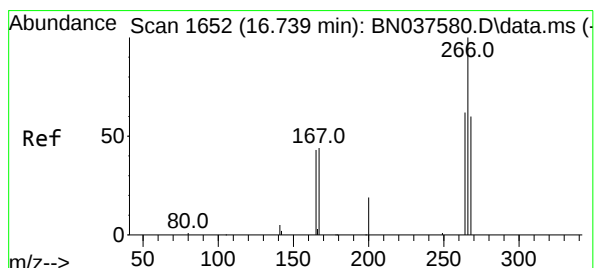
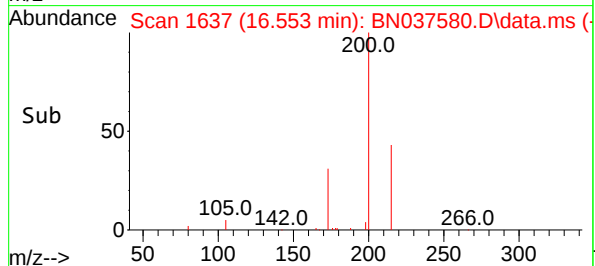
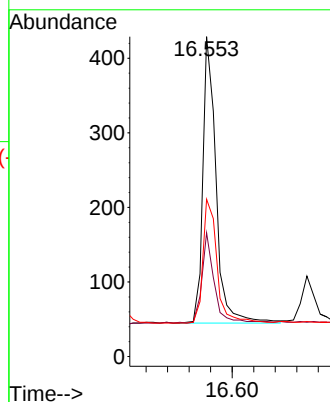
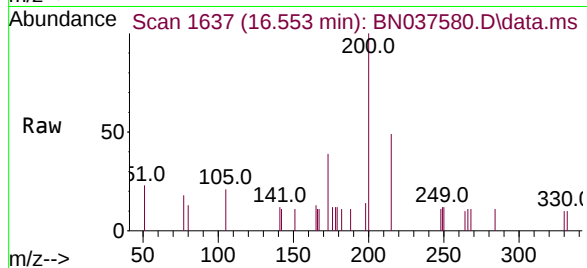
Tgt Ion:200 Resp: 654

Ion Ratio Lower Upper

200 100

173 38.7 31.0 46.4

215 49.2 39.4 59.0



#24

Pentachlorophenol

Concen: 0.363 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

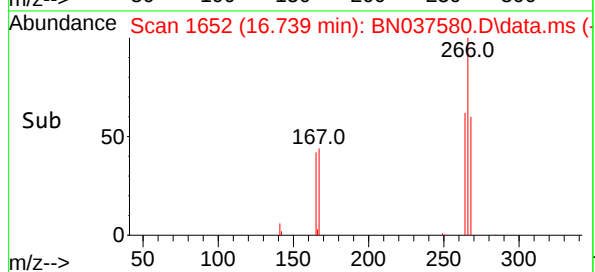
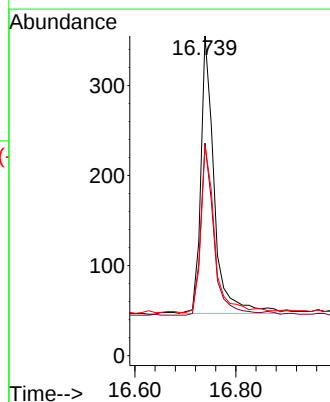
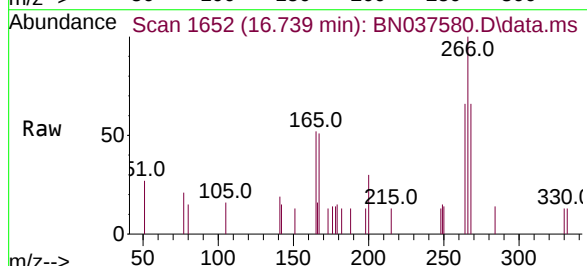
Tgt Ion:266 Resp: 571

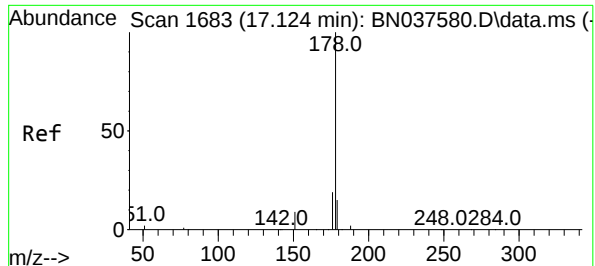
Ion Ratio Lower Upper

266 100

264 62.0 49.6 74.4

268 61.5 49.2 73.8

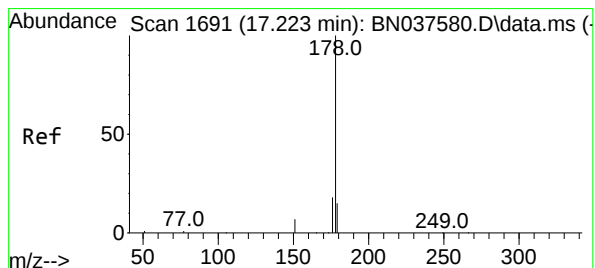
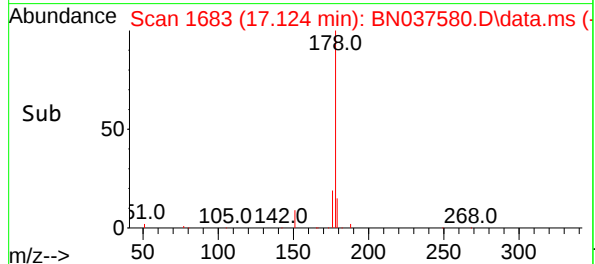
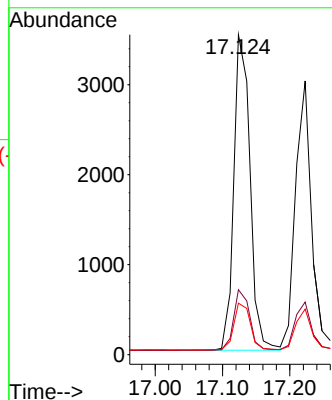
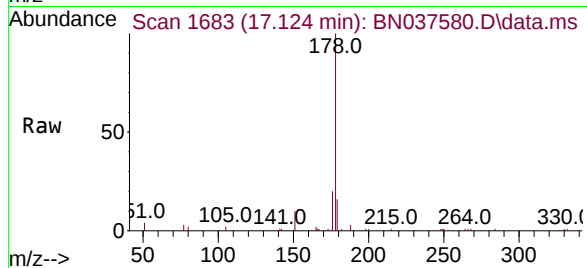




#25
Phenanthrene
Concen: 0.385 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

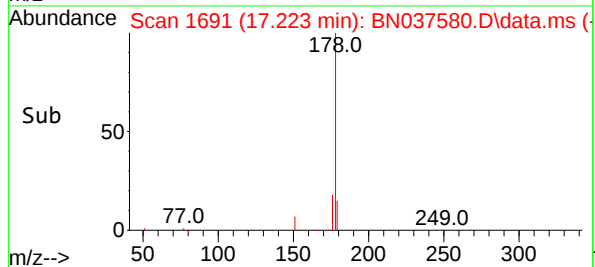
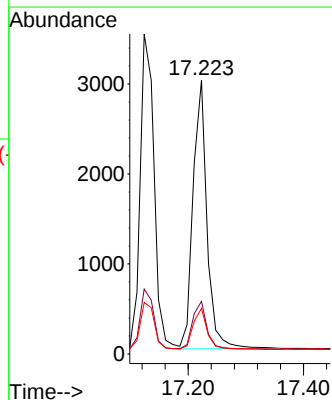
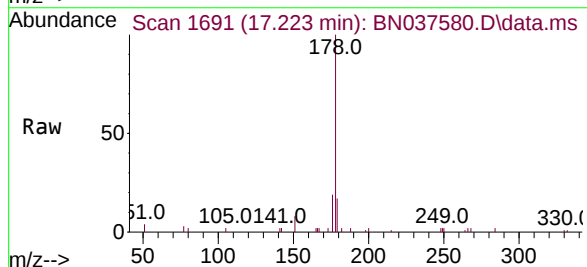
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

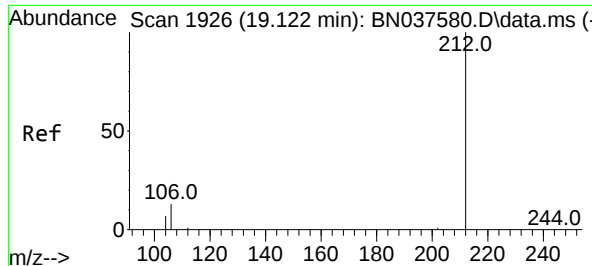
Tgt Ion:178 Resp: 5887
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.370 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion:178 Resp: 5009
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: 19.122 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

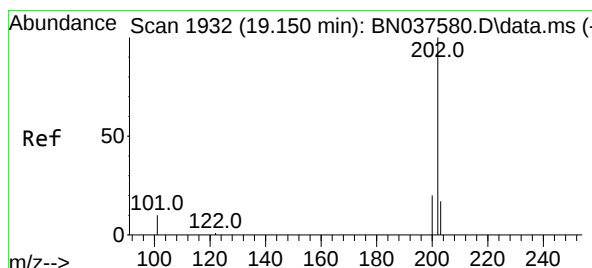
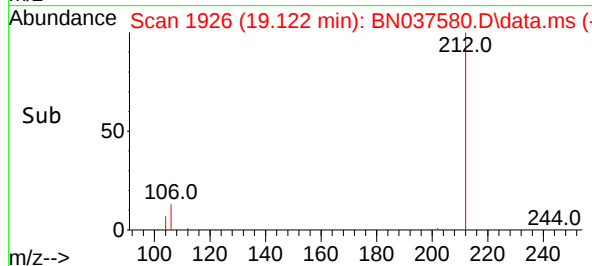
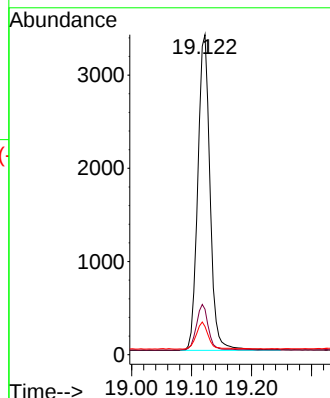
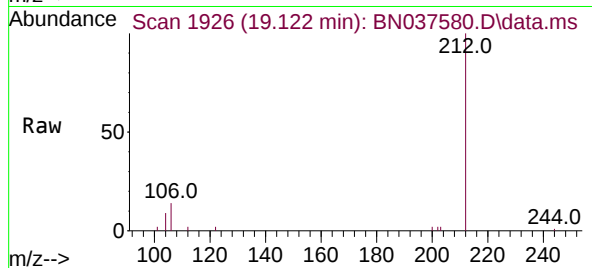
Tgt Ion:212 Resp: 4801

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.372 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

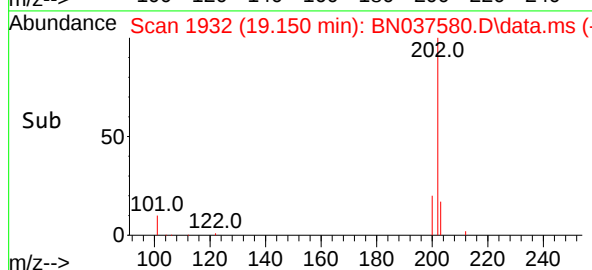
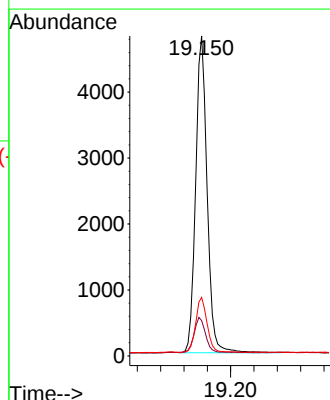
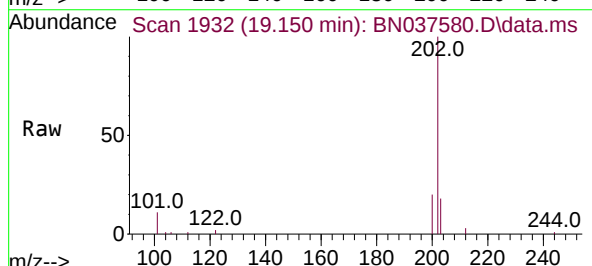
Tgt Ion:202 Resp: 6535

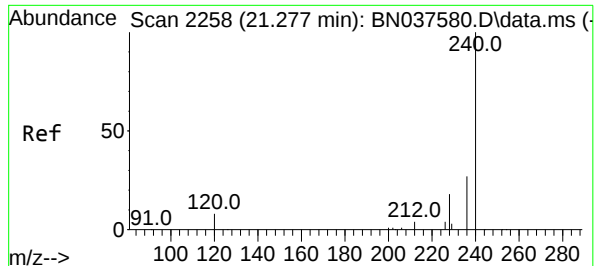
Ion Ratio Lower Upper

202 100

101 11.3 9.0 13.6

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

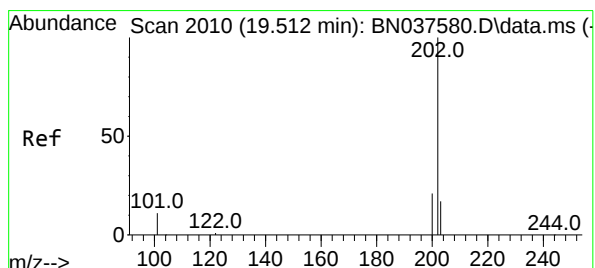
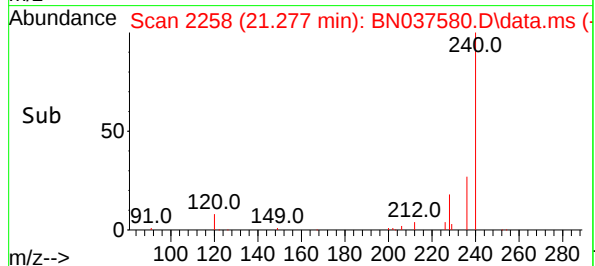
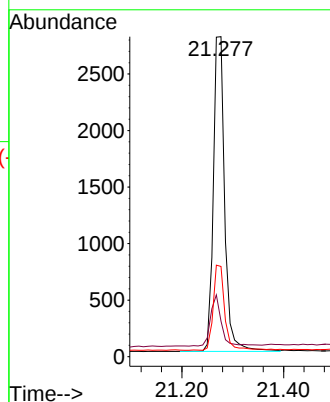
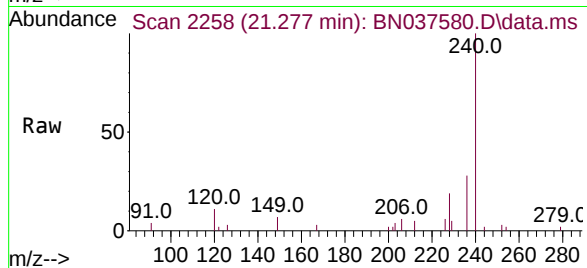
Tgt Ion:240 Resp: 4317

Ion Ratio Lower Upper

240 100

120 11.1 8.9 13.3

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.392 ng

RT: 19.512 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

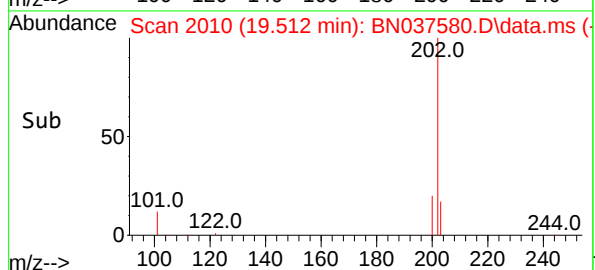
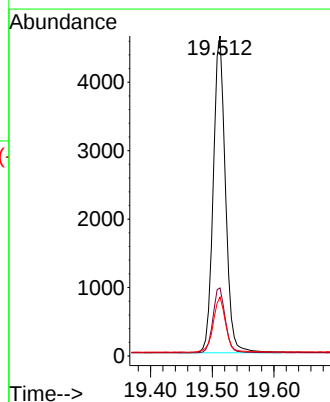
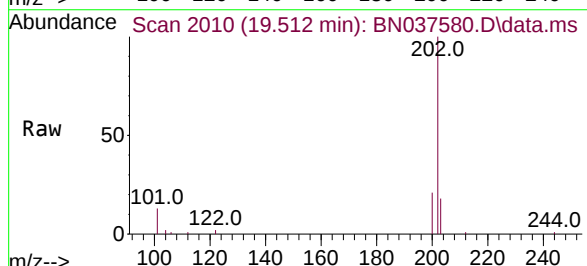
Tgt Ion:202 Resp: 6320

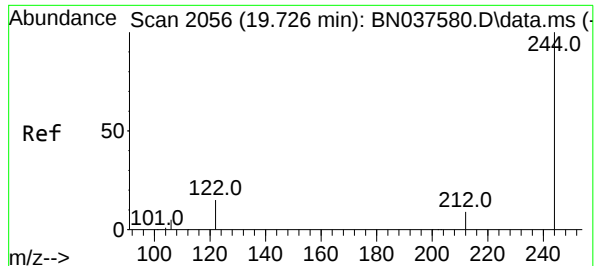
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.9 14.3 21.5

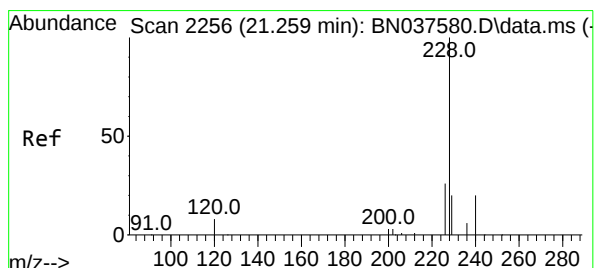
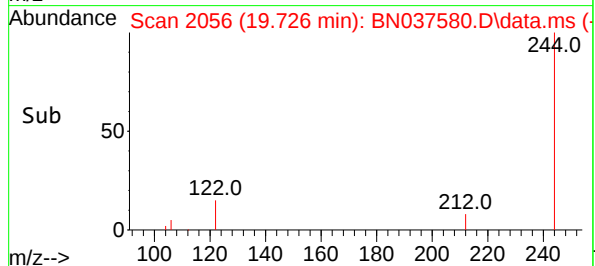
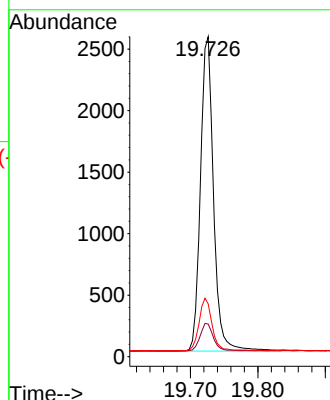
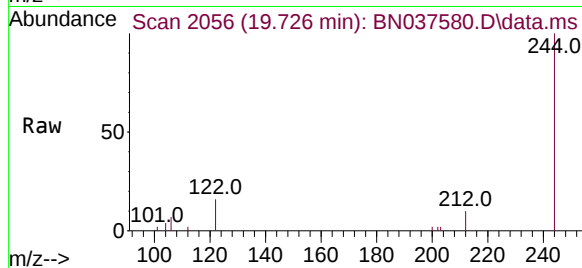




#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

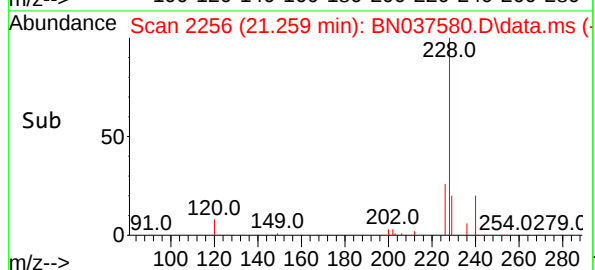
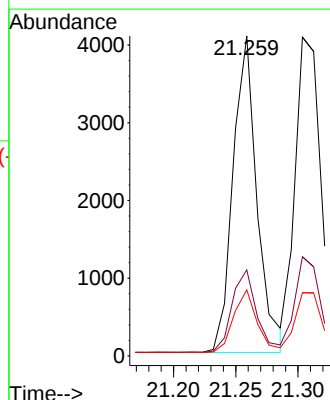
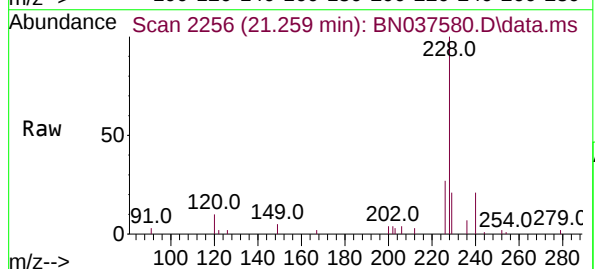
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

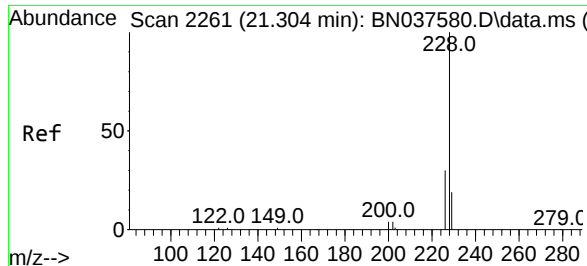
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.2	12.2
122	16.5	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.5	32.3
229	20.6	16.5	24.7





#33

Chrysene

Concen: 0.385 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

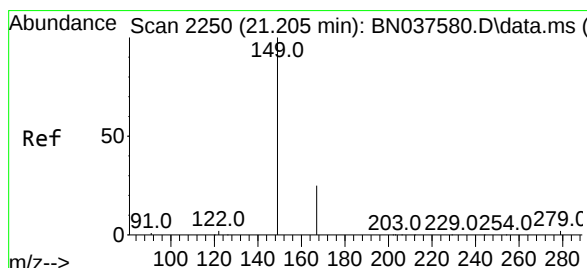
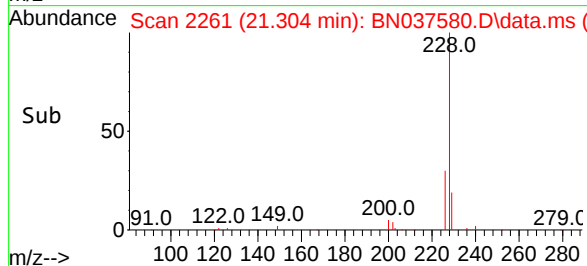
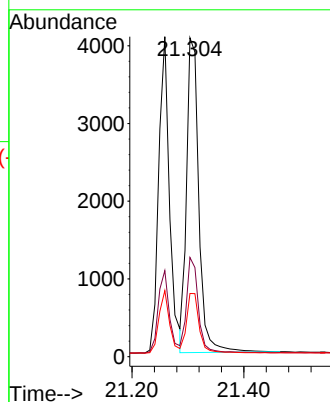
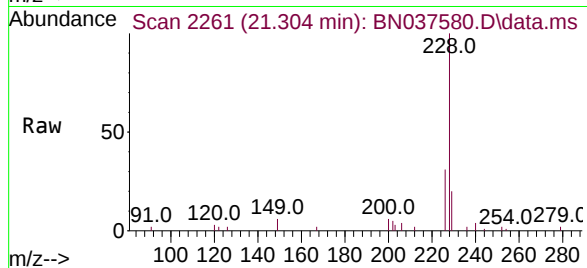
Tgt Ion:228 Resp: 6185

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.378 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

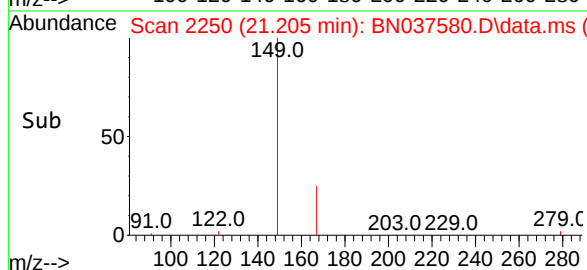
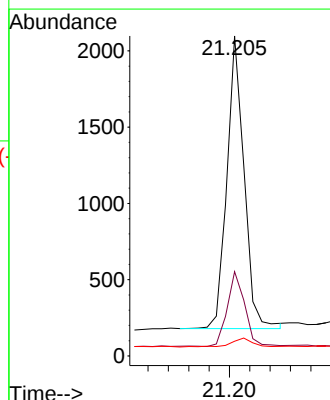
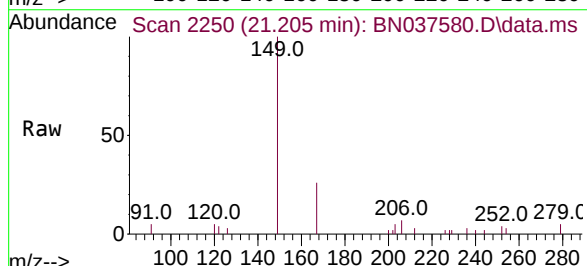
Tgt Ion:149 Resp: 2252

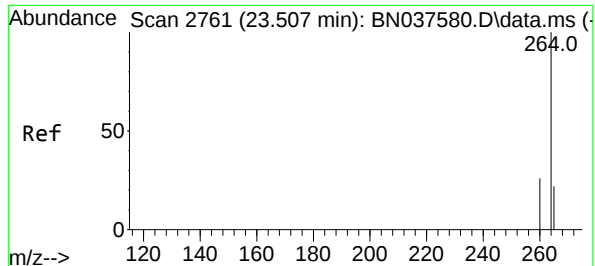
Ion Ratio Lower Upper

149 100

167 25.6 20.5 30.7

279 3.8 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.507 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

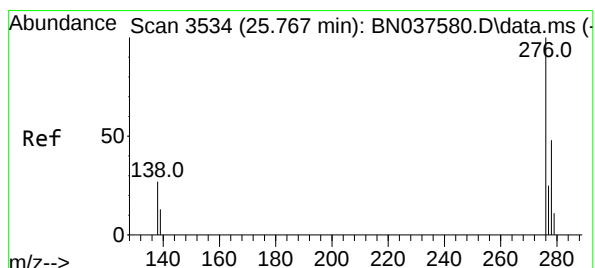
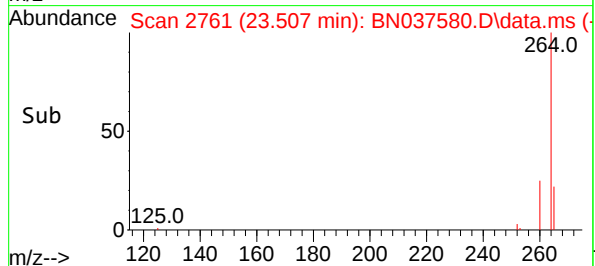
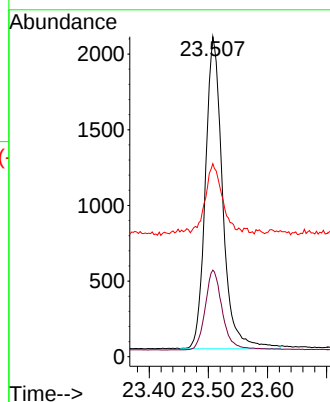
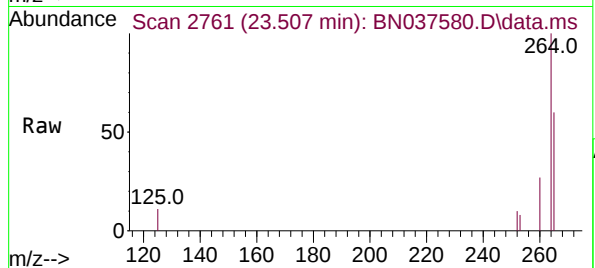
Tgt Ion:264 Resp: 4188

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 60.3 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.383 ng

RT: 25.767 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

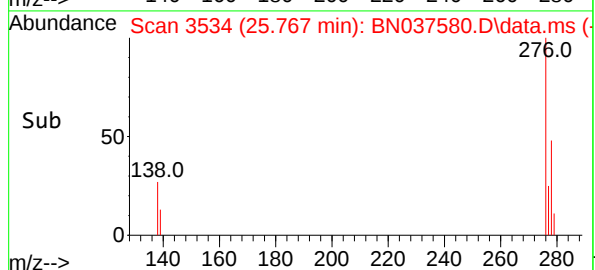
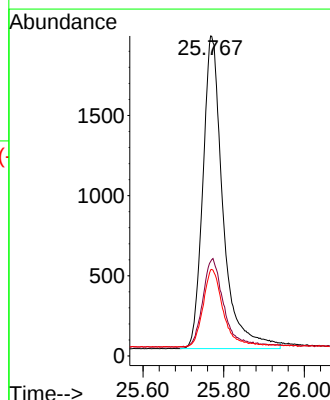
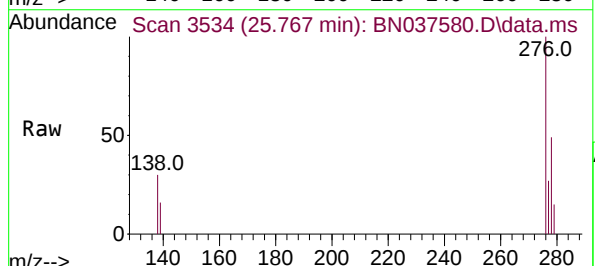
Tgt Ion:276 Resp: 6753

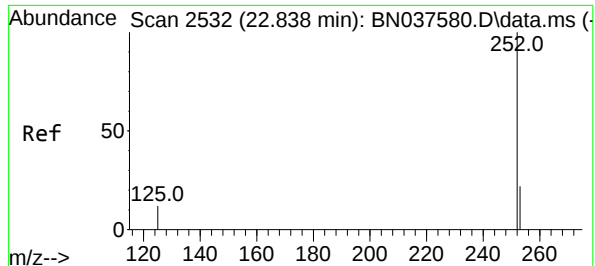
Ion Ratio Lower Upper

276 100

138 29.1 23.3 34.9

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.353 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

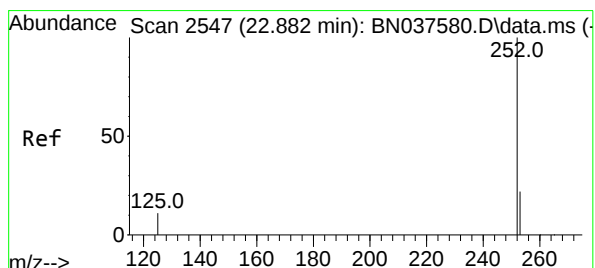
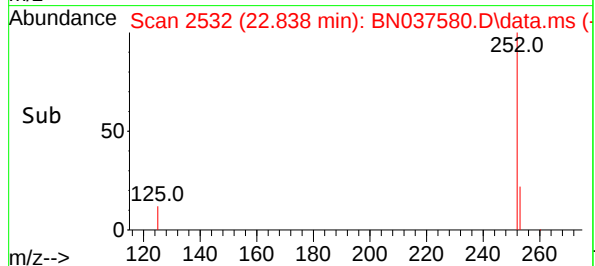
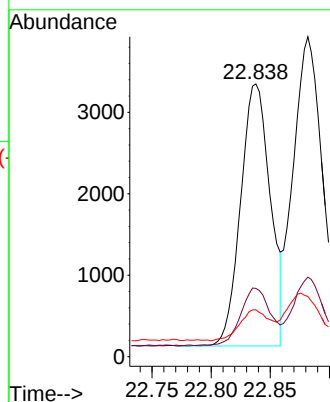
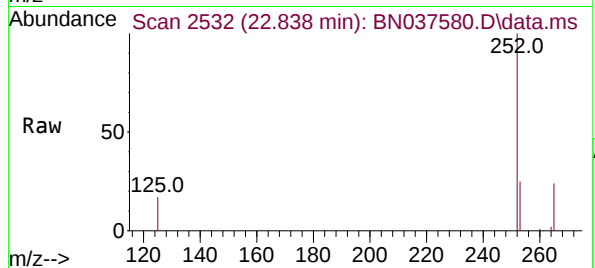
Tgt Ion:252 Resp: 5604

Ion Ratio Lower Upper

252 100

253 25.0 20.0 30.0

125 17.2 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.386 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

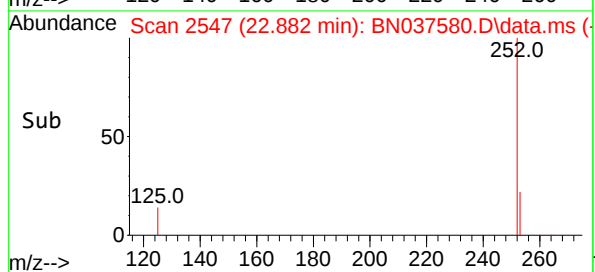
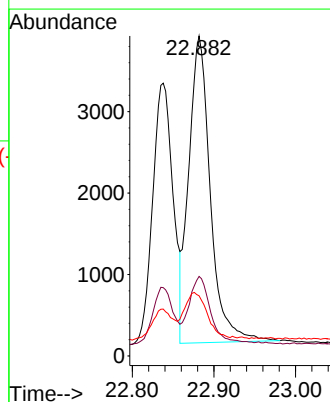
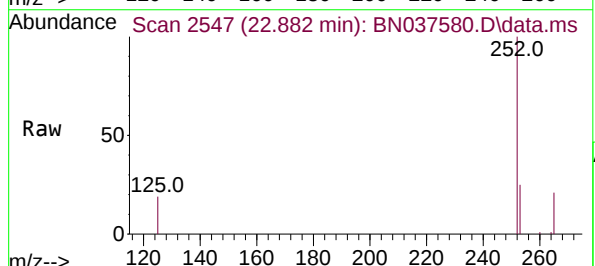
Tgt Ion:252 Resp: 6915

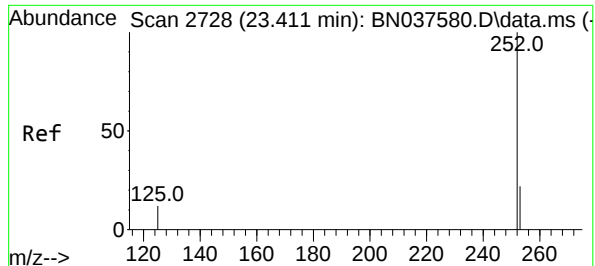
Ion Ratio Lower Upper

252 100

253 24.9 19.9 29.9

125 18.8 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

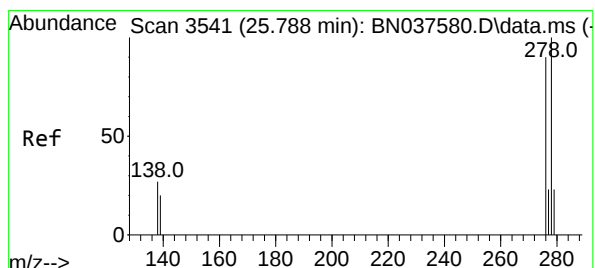
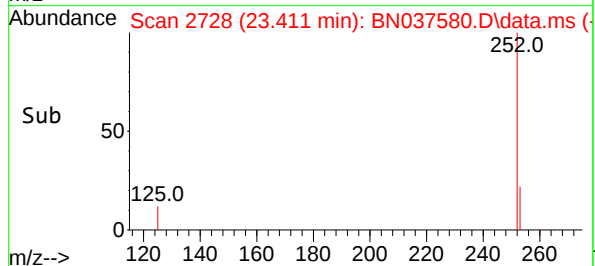
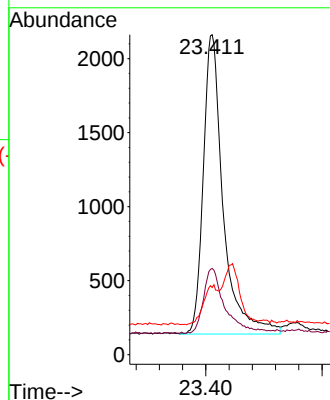
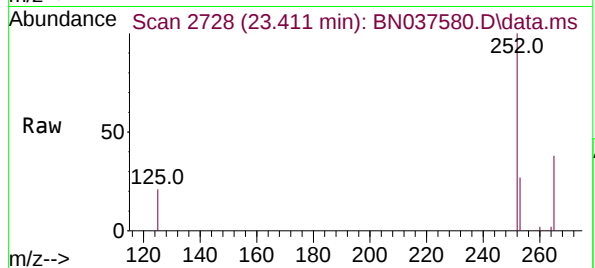
Tgt Ion:252 Resp: 4812

Ion Ratio Lower Upper

252 100

253 27.0 21.6 32.4

125 21.0 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

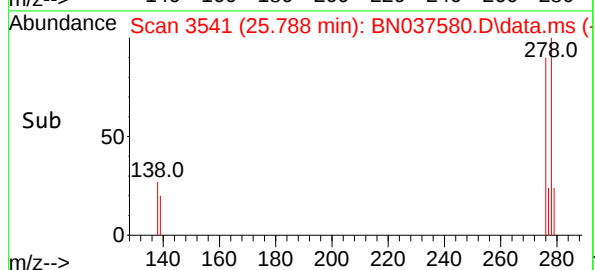
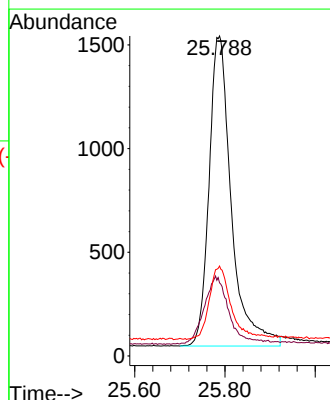
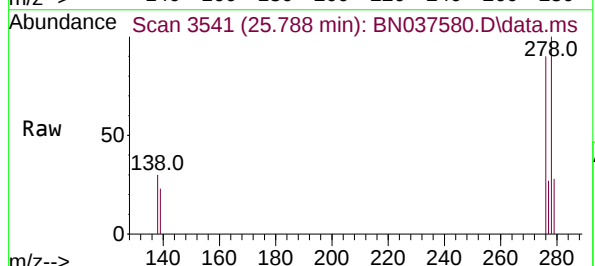
Tgt Ion:278 Resp: 5118

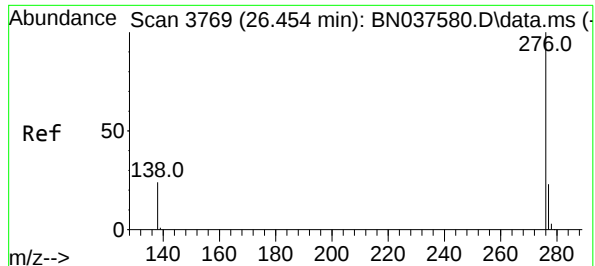
Ion Ratio Lower Upper

278 100

139 22.9 18.3 27.5

279 28.1 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.454 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037580.D

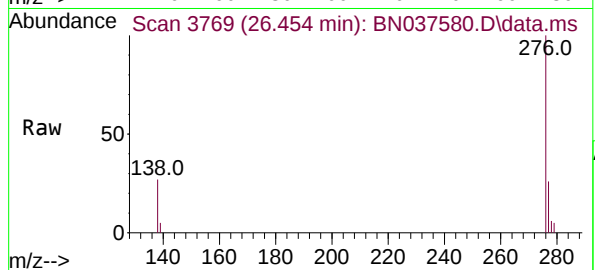
Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



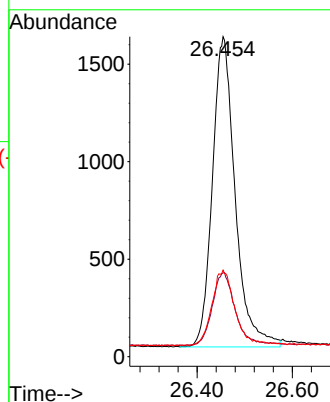
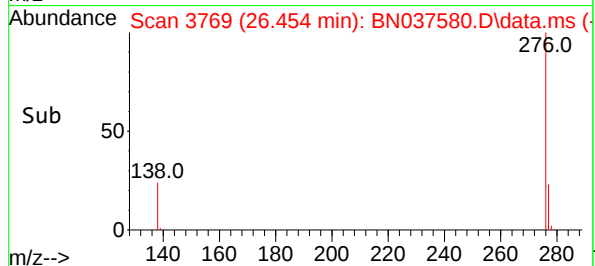
Tgt Ion:276 Resp: 5284

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

138 27.1 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037581.D
 Acq On : 12 Aug 2025 18:16
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Aug 13 04:48:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

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

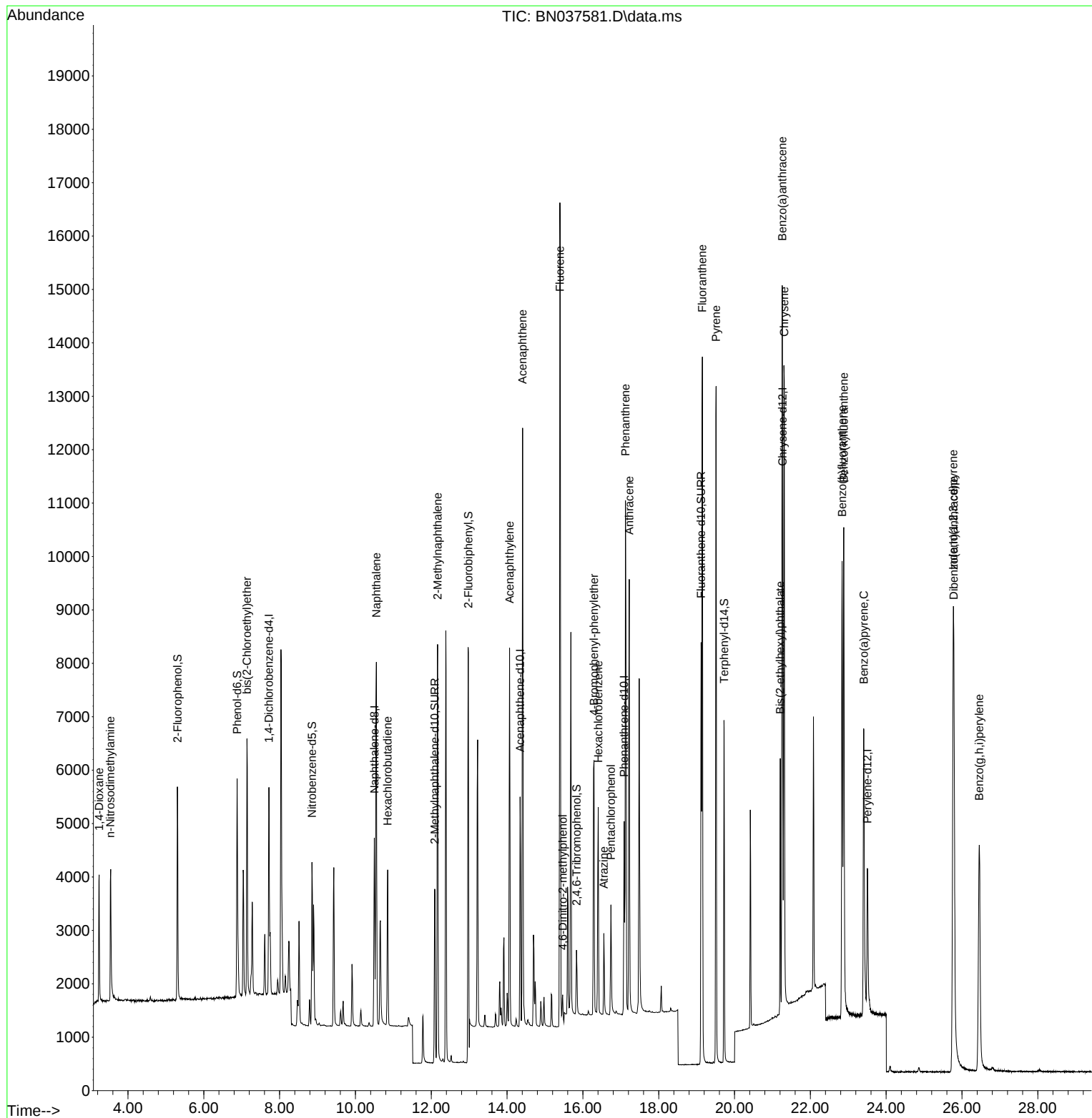
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1885	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4579	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2311	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4680	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4185	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	3775	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	3101	0.726	ng	0.00
5) Phenol-d6	6.879	99	3707	0.721	ng	0.00
8) Nitrobenzene-d5	8.854	82	2415	0.749	ng	0.00
11) 2-Methylnaphthalene-d10	12.090	152	4517	0.726	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	739	0.731	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	10405	0.778	ng	0.00
27) Fluoranthene-d10	19.118	212	8750	0.711	ng	0.00
31) Terphenyl-d14	19.726	244	6383	0.741	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	1386	0.769	ng	96
3) n-Nitrosodimethylamine	3.535	42	1777	0.771	ng	# 96
6) bis(2-Chloroethyl)ether	7.139	93	3530	0.762	ng	98
9) Naphthalene	10.551	128	9265	0.760	ng	99
10) Hexachlorobutadiene	10.850	225	2321	0.779	ng	# 99
12) 2-Methylnaphthalene	12.166	142	5758	0.753	ng	98
16) Acenaphthylene	14.067	152	7638	0.737	ng	99
17) Acenaphthene	14.409	154	5336	0.757	ng	98
18) Fluorene	15.392	166	7030	0.763	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	439	0.697	ng	# 75
21) 4-Bromophenyl-phenylether	16.292	248	2217	0.754	ng	95
22) Hexachlorobenzene	16.404	284	3105	0.745	ng	99
23) Atrazine	16.553	200	1251	0.752	ng	95
24) Pentachlorophenol	16.739	266	1061	0.725	ng	98
25) Phenanthrene	17.124	178	10654	0.749	ng	100
26) Anthracene	17.223	178	9251	0.734	ng	100
28) Fluoranthene	19.150	202	12088	0.740	ng	100
30) Pyrene	19.513	202	11747	0.751	ng	100
32) Benzo(a)anthracene	21.259	228	10489	0.750	ng	100
33) Chrysene	21.313	228	11541	0.741	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	4046	0.701	ng	100
36) Indeno(1,2,3-cd)pyrene	25.770	276	11835	0.744	ng	98
37) Benzo(b)fluoranthene	22.838	252	10811	0.756	ng	95
38) Benzo(k)fluoranthene	22.882	252	12288	0.761	ng	# 94
39) Benzo(a)pyrene	23.408	252	8737	0.736	ng	# 93
40) Dibenzo(a,h)anthracene	25.785	278	9175	0.743	ng	96
41) Benzo(g,h,i)perylene	26.454	276	9524	0.732	ng	98

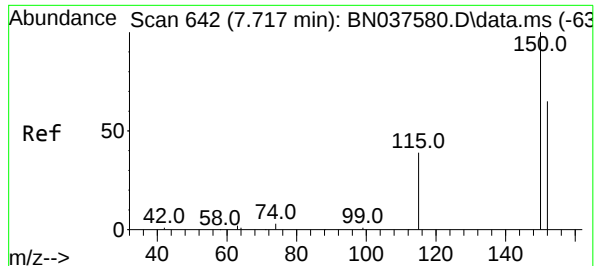
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037581.D
Acq On : 12 Aug 2025 18:16
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Aug 13 04:48:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

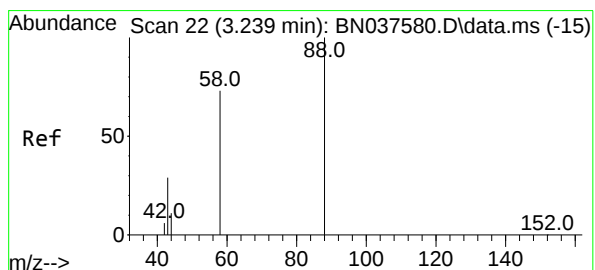
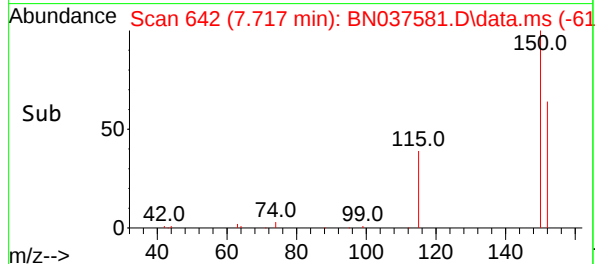
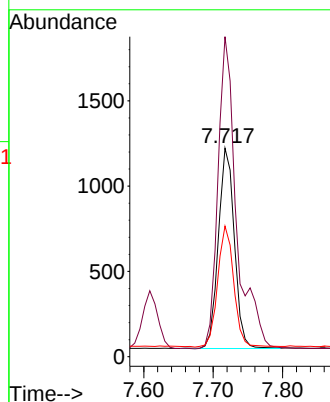
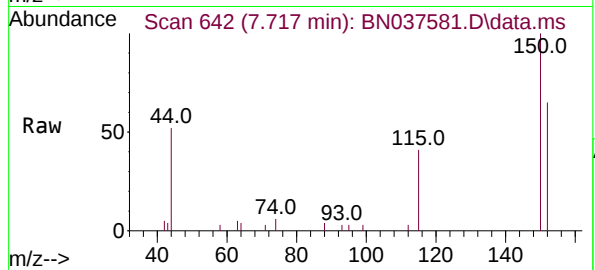




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

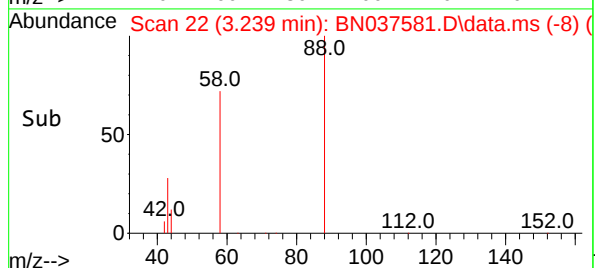
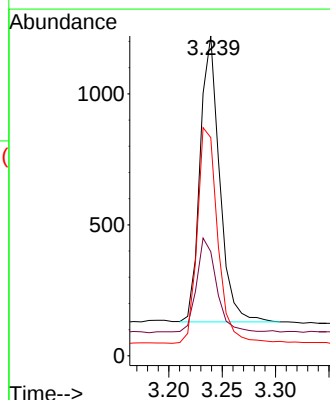
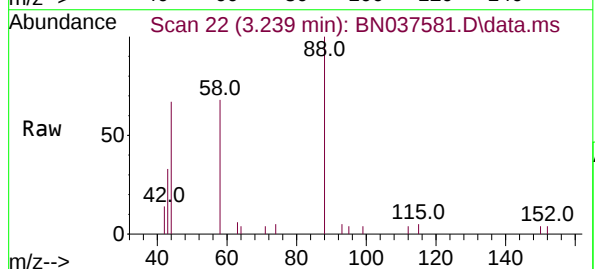
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

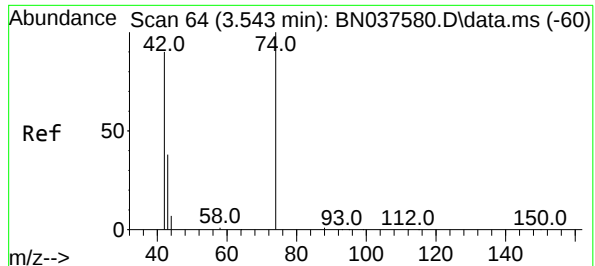
Tgt Ion:152 Resp: 1885
Ion Ratio Lower Upper
152 100
150 153.5 122.2 183.4
115 62.7 49.8 74.6



#2
1,4-Dioxane
Concen: 0.769 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion: 88 Resp: 1386
Ion Ratio Lower Upper
88 100
43 35.4 25.8 38.6
58 79.9 61.2 91.8

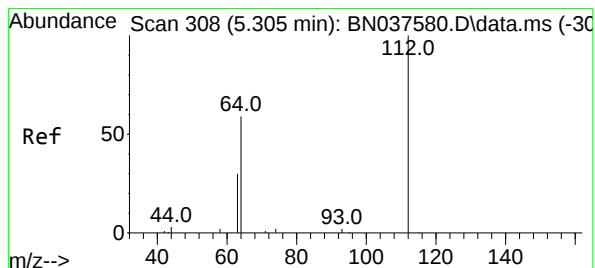
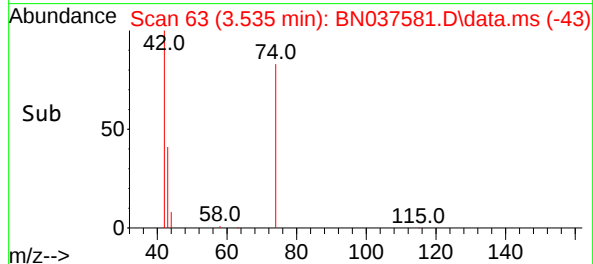
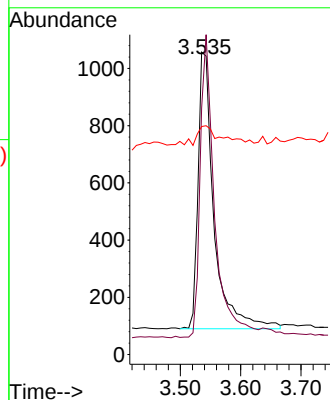
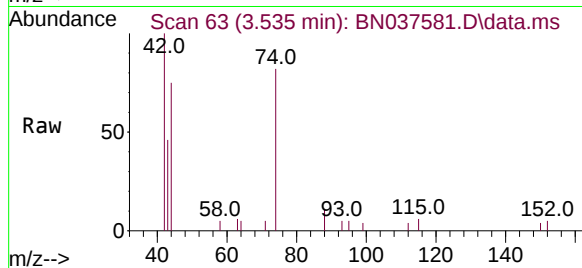




#3
n-Nitrosodimethylamine
Concen: 0.771 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

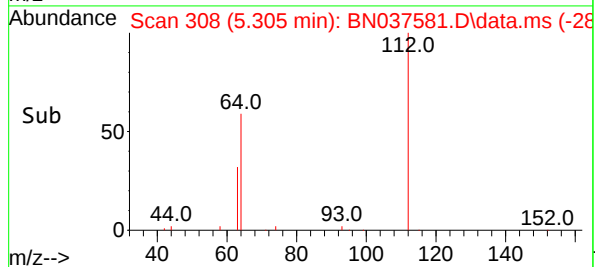
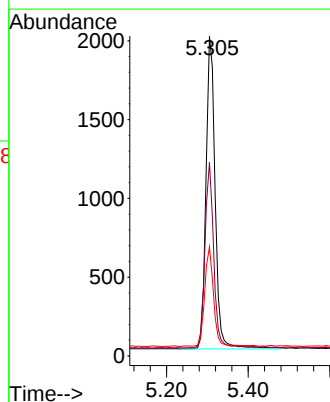
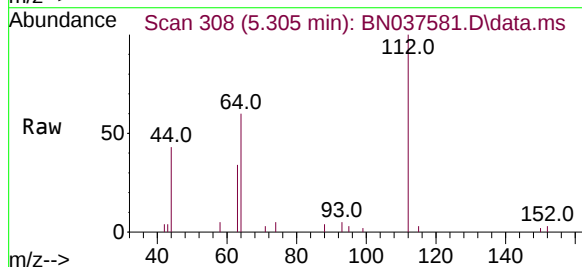
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

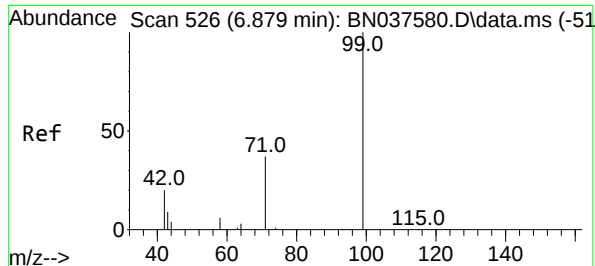
Tgt Ion: 42 Resp: 1777
Ion Ratio Lower Upper
42 100
74 98.9 82.0 123.0
44 12.9 7.9 11.9#



#4
2-Fluorophenol
Concen: 0.726 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion: 112 Resp: 3101
Ion Ratio Lower Upper
112 100
64 56.5 44.9 67.3
63 31.0 23.4 35.2





#5

Phenol-d6

Concen: 0.721 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

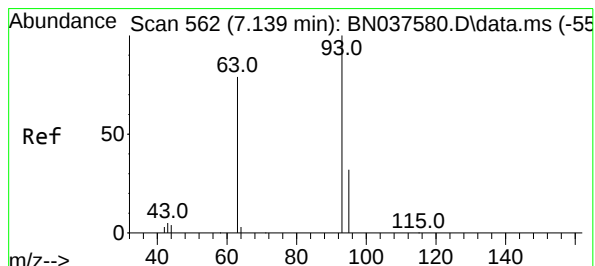
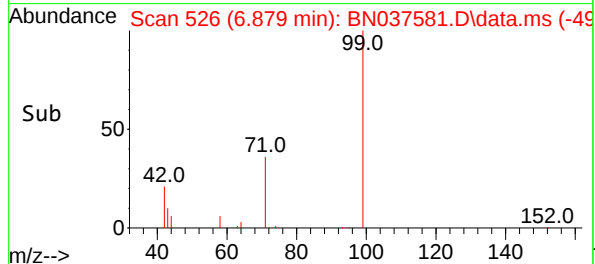
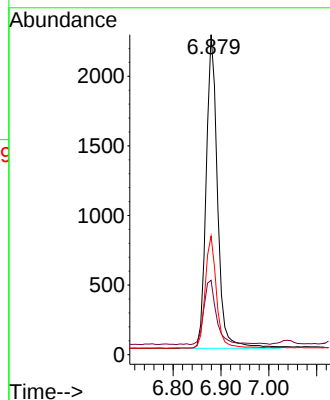
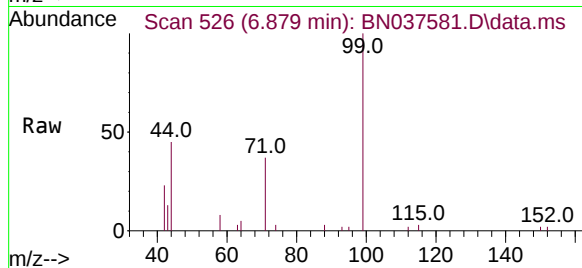
Tgt Ion: 99 Resp: 3707

Ion Ratio Lower Upper

99 100

42 22.9 18.5 27.7

71 35.5 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.762 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

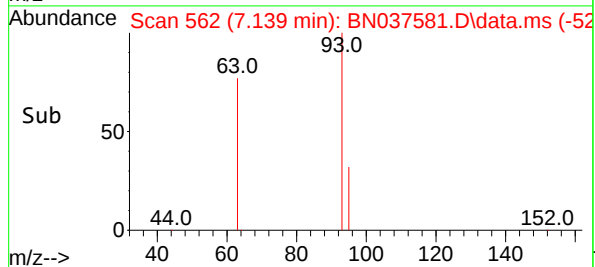
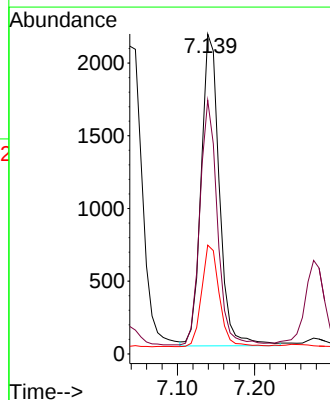
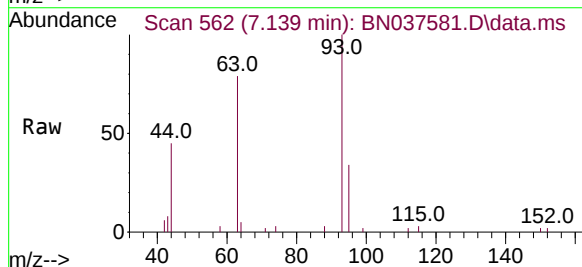
Tgt Ion: 93 Resp: 3530

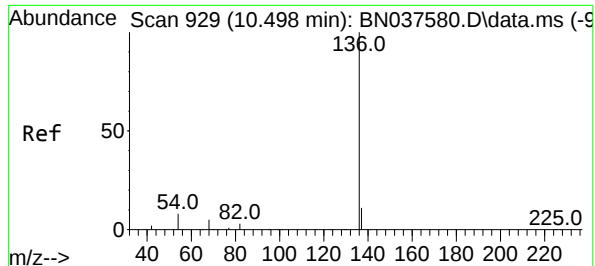
Ion Ratio Lower Upper

93 100

63 74.6 58.0 87.0

95 31.4 24.9 37.3

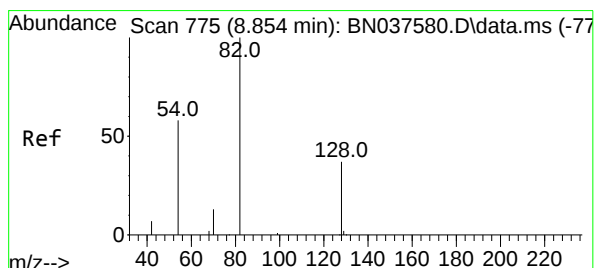
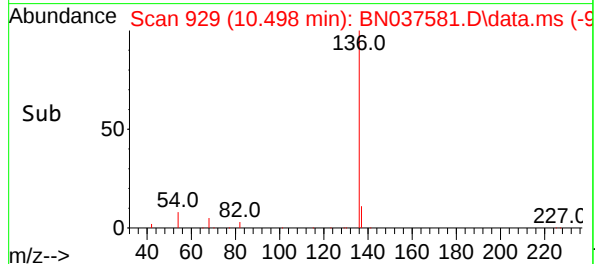
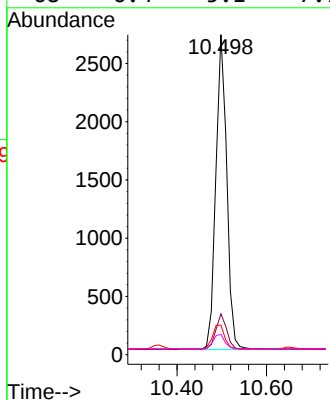
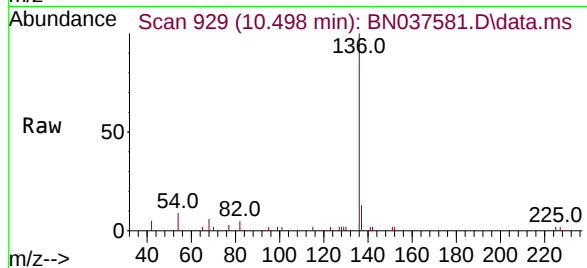




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

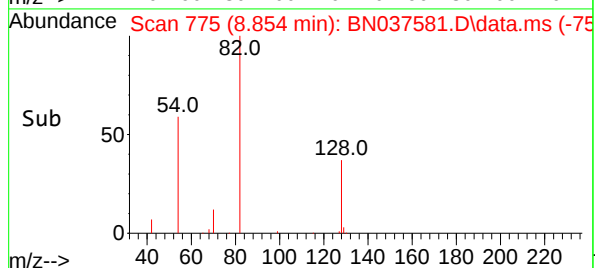
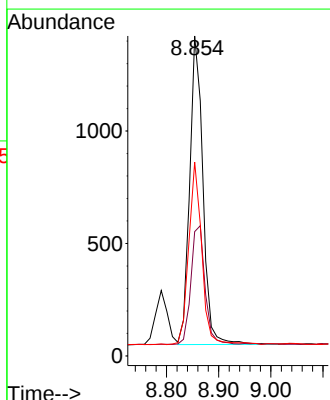
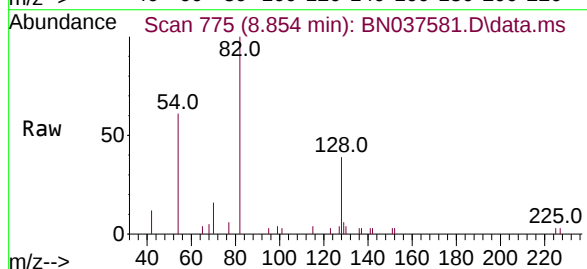
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

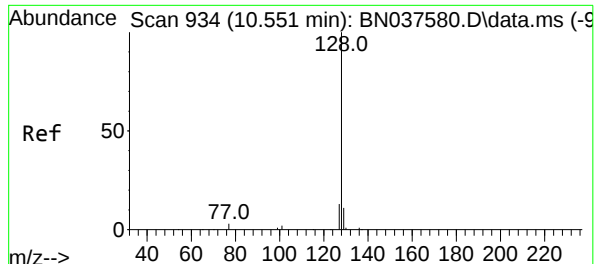
Tgt Ion:	136	Resp:	4579
Ion	Ratio	Lower	Upper
136	100		
137	12.8	9.5	14.3
54	9.3	7.3	10.9
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.749 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:	82	Resp:	2415
Ion	Ratio	Lower	Upper
82	100		
128	38.9	32.6	48.8
54	60.6	48.9	73.3

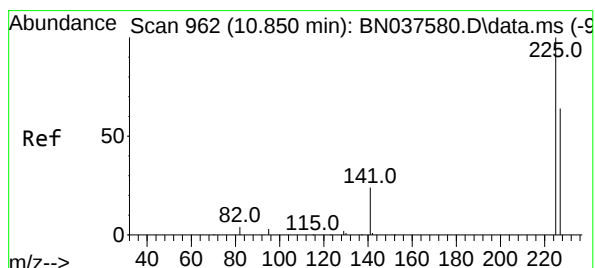
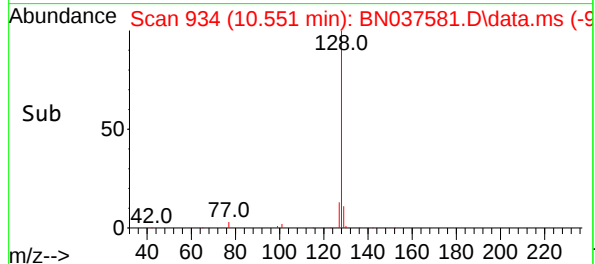
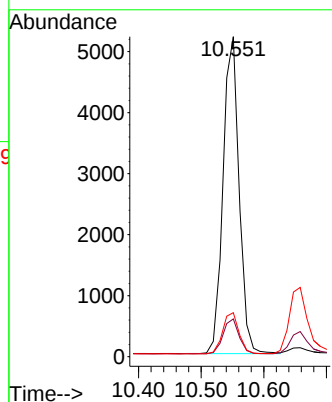
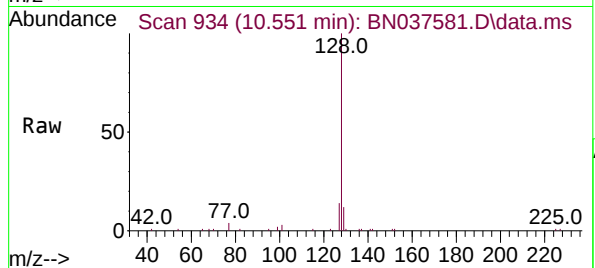




#9
Naphthalene
Concen: 0.760 ng
RT: 10.551 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

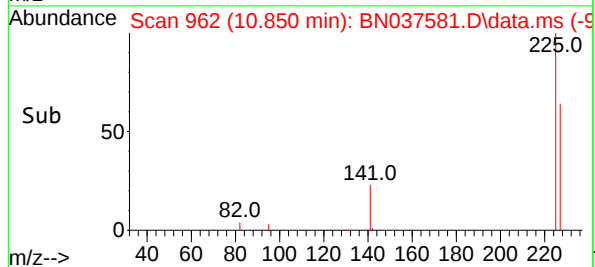
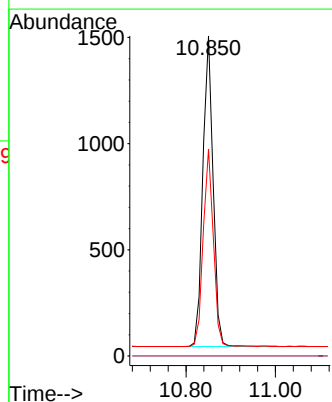
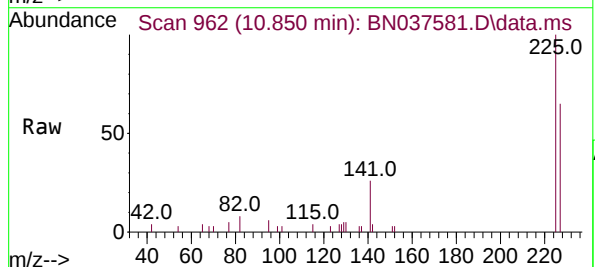
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

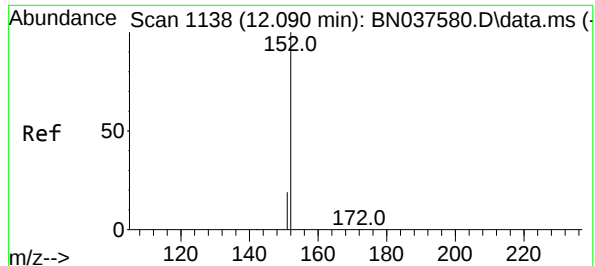
Tgt Ion:128 Resp: 9265
Ion Ratio Lower Upper
128 100
129 11.8 9.8 14.6
127 13.8 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.779 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:225 Resp: 2321
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 50.8 76.2

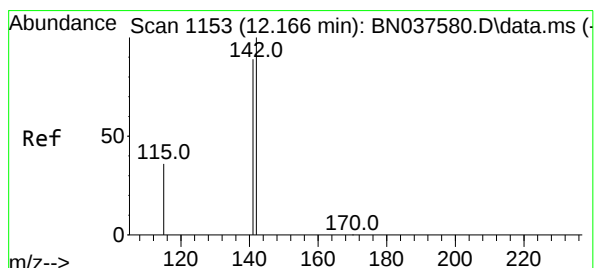
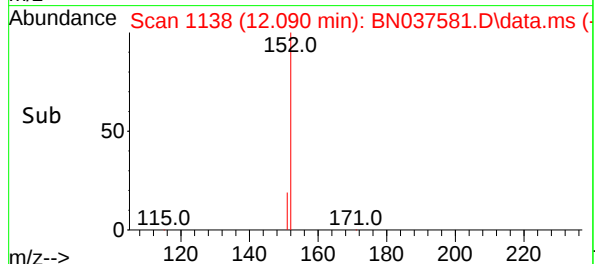
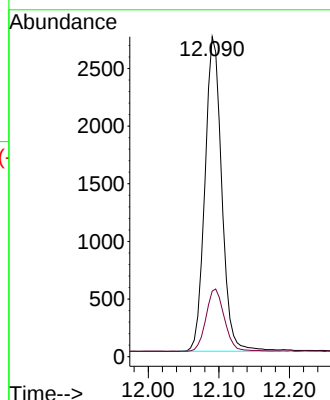
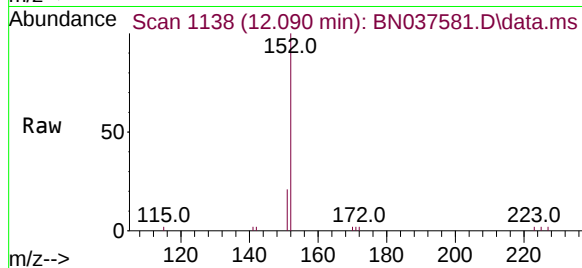




#11
2-Methylnaphthalene-d10
Concen: 0.726 ng
RT: 12.090 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

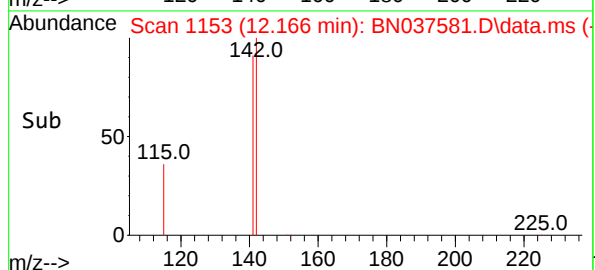
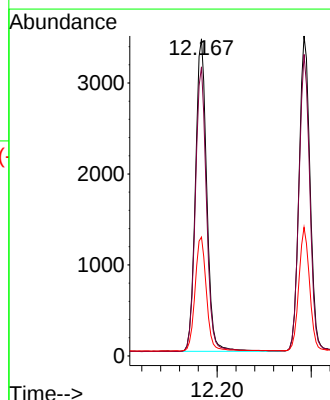
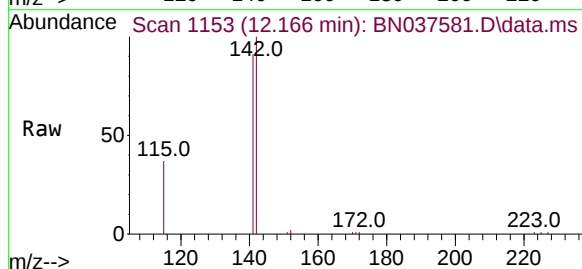
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

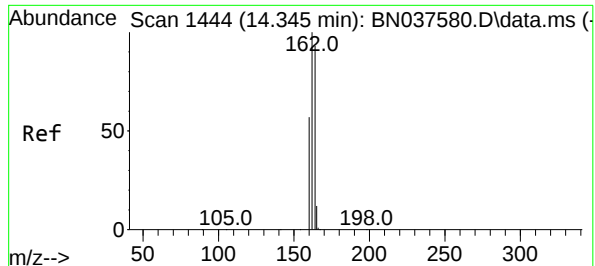
Tgt Ion:152 Resp: 4517
Ion Ratio Lower Upper
152 100
151 21.9 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.753 ng
RT: 12.166 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:142 Resp: 5758
Ion Ratio Lower Upper
142 100
141 91.2 71.4 107.0
115 37.5 30.2 45.4

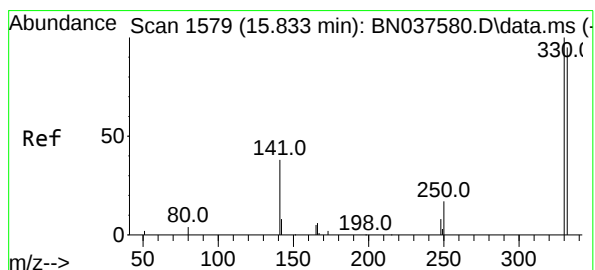
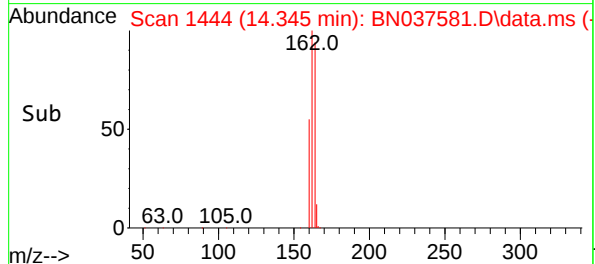
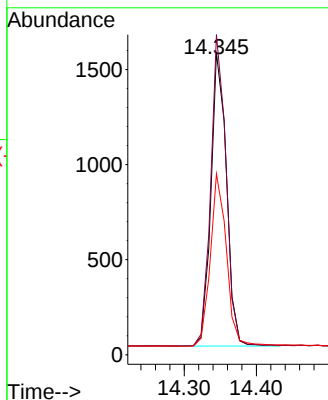
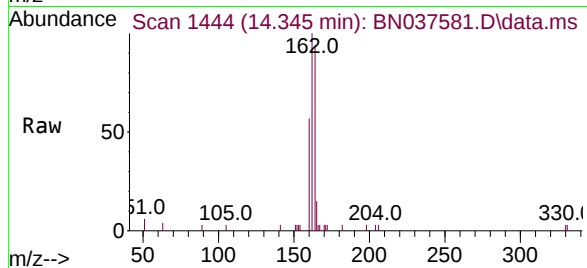




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

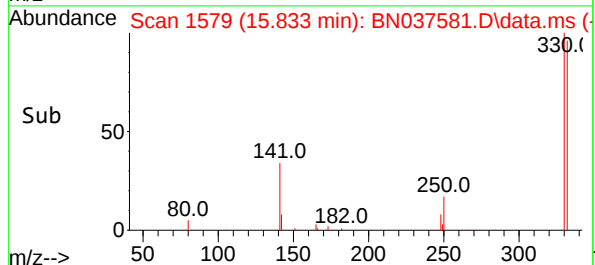
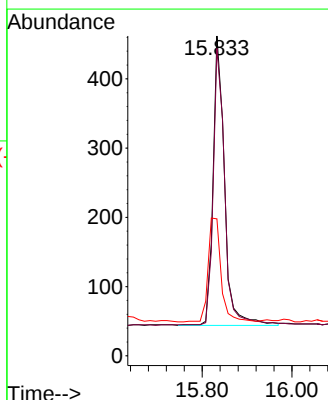
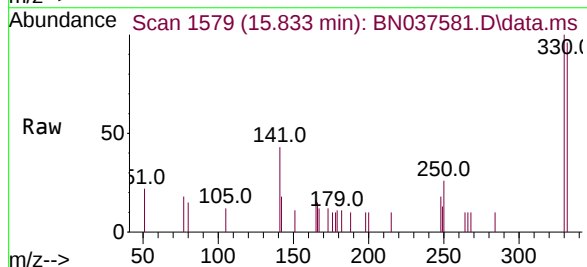
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

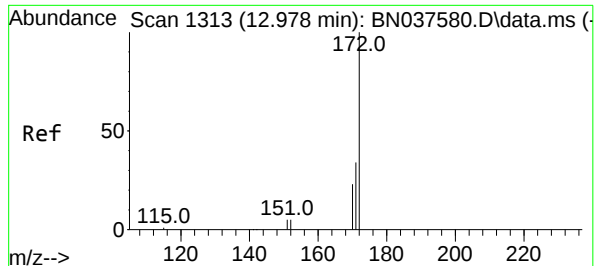
Tgt Ion:164 Resp: 2311
Ion Ratio Lower Upper
164 100
162 105.9 85.5 128.3
160 59.8 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.731 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:330 Resp: 739
Ion Ratio Lower Upper
330 100
332 94.3 77.4 116.0
141 40.5 30.9 46.3

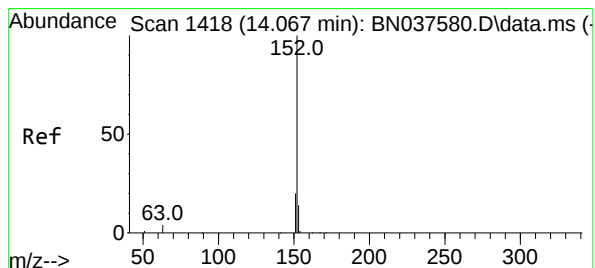
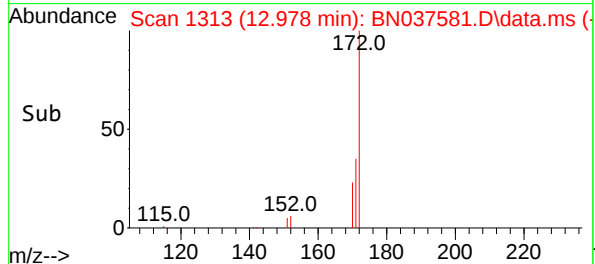
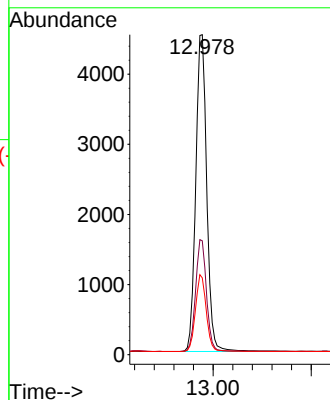
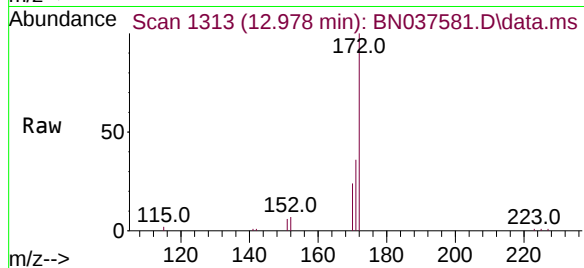




#15
2-Fluorobiphenyl
Concen: 0.778 ng
RT: 12.978 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

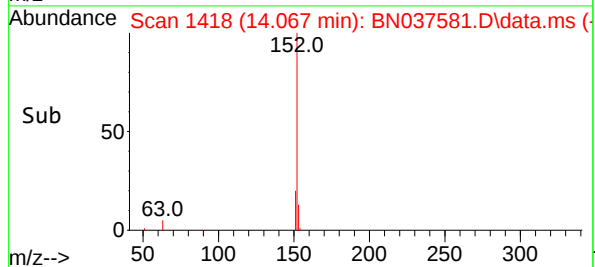
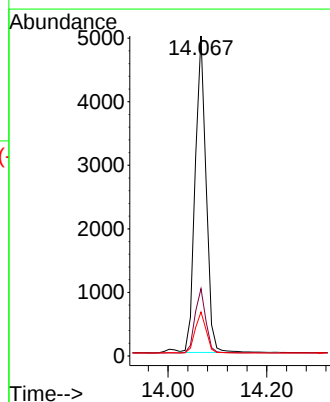
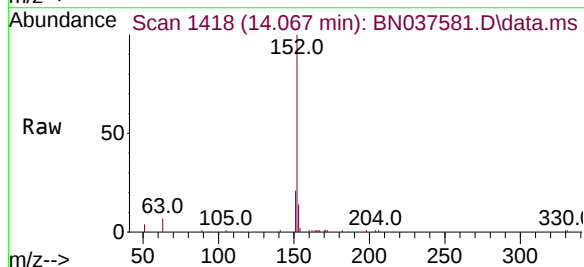
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

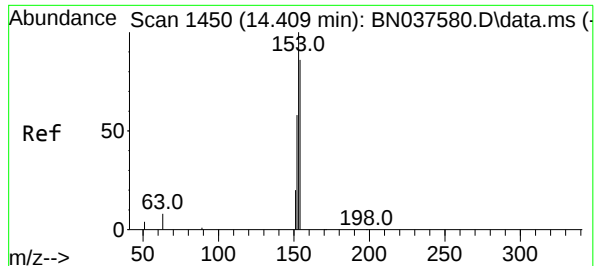
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.2	42.4
170	24.0	19.2	28.8



#16
Acenaphthylene
Concen: 0.737 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.1	24.1
153	13.1	10.7	16.1

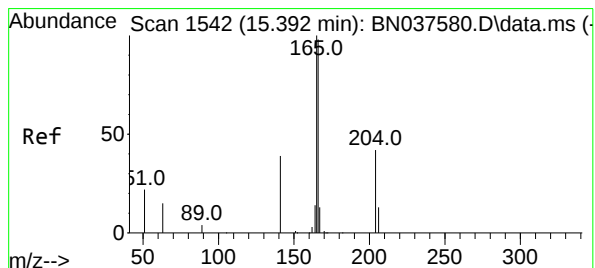
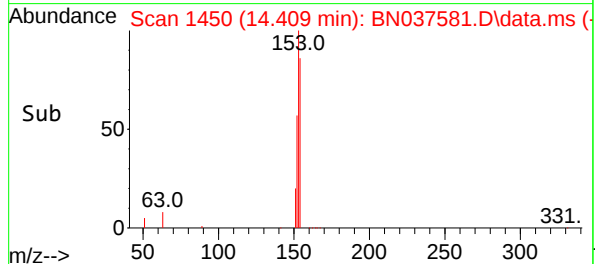
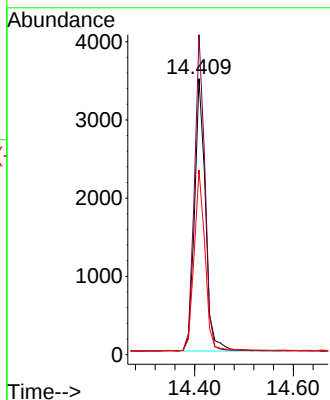
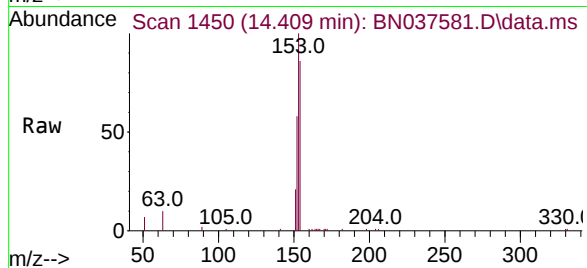




#17
Acenaphthene
Concen: 0.757 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

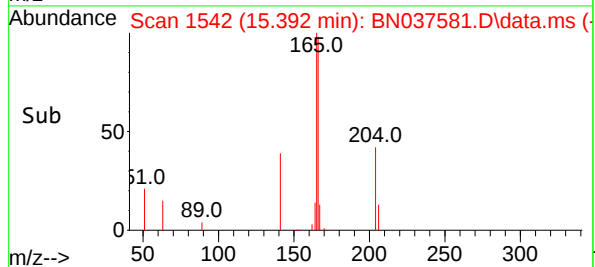
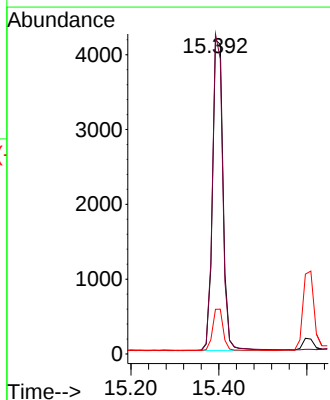
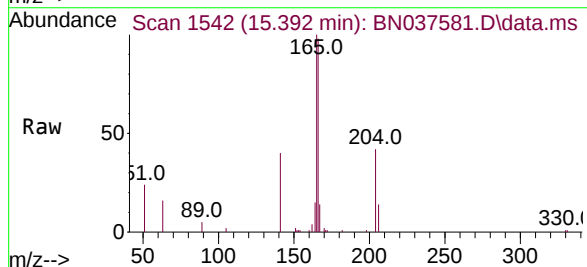
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

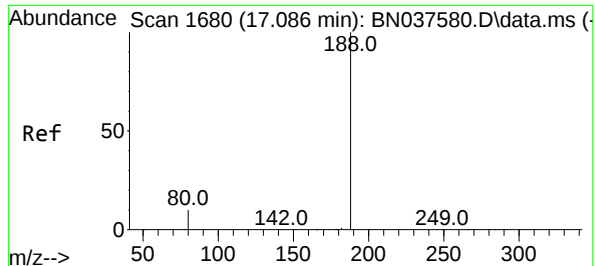
Tgt Ion:154 Resp: 5336
Ion Ratio Lower Upper
154 100
153 111.8 90.6 135.8
152 66.9 54.9 82.3



#18
Fluorene
Concen: 0.763 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:166 Resp: 7030
Ion Ratio Lower Upper
166 100
165 99.5 78.9 118.3
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

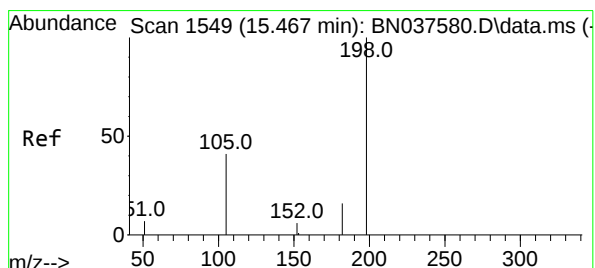
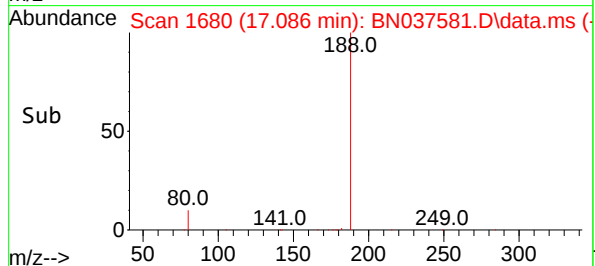
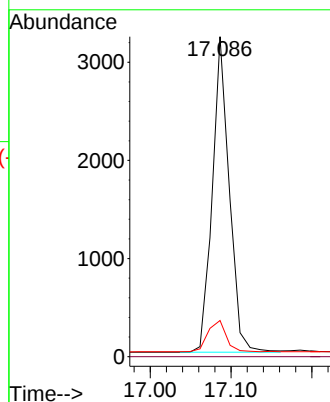
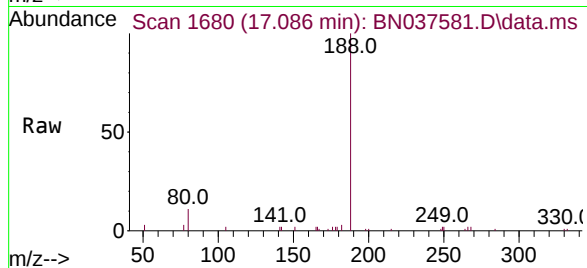
Tgt Ion:188 Resp: 4680

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.697 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

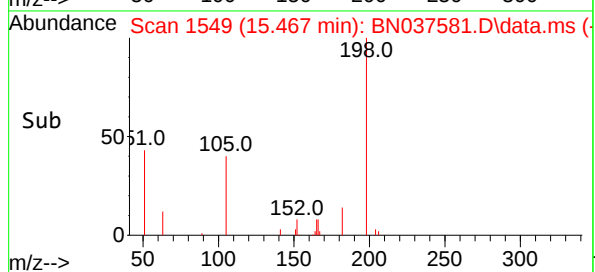
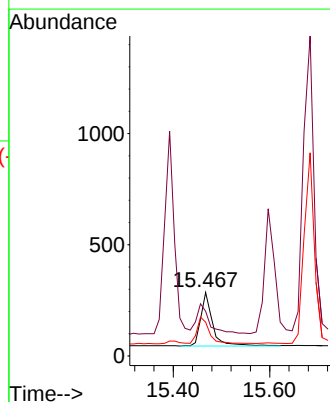
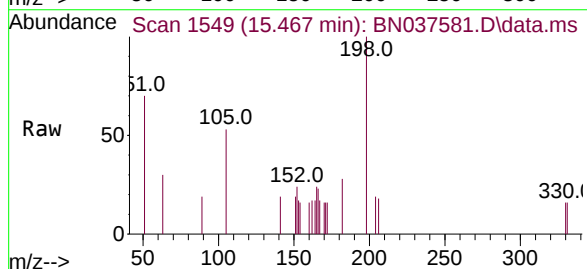
Tgt Ion:198 Resp: 439

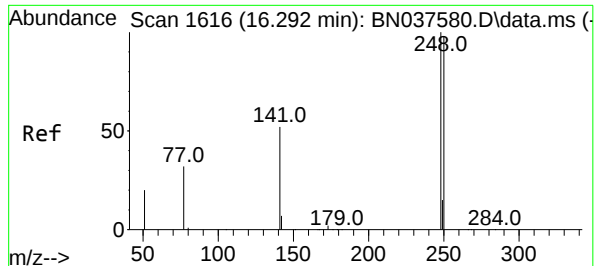
Ion Ratio Lower Upper

198 100

51 70.3 81.0 121.6#

105 53.1 52.5 78.7

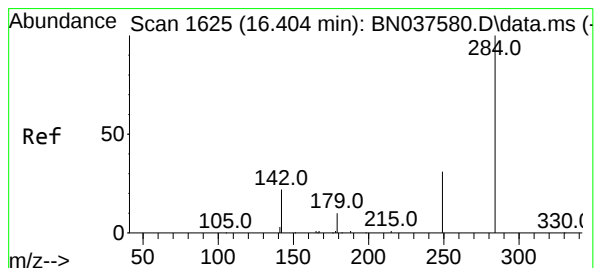
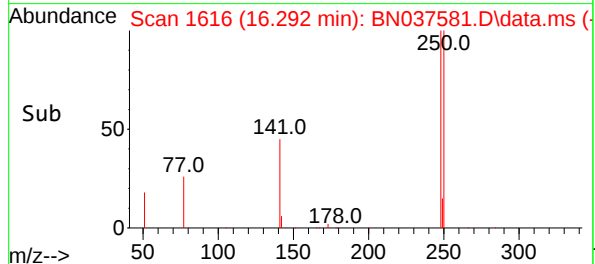
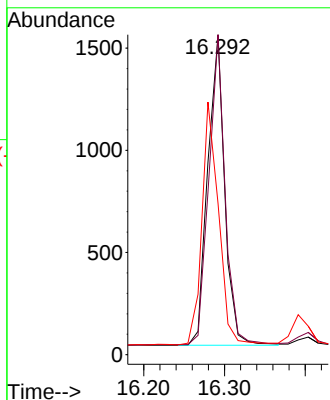
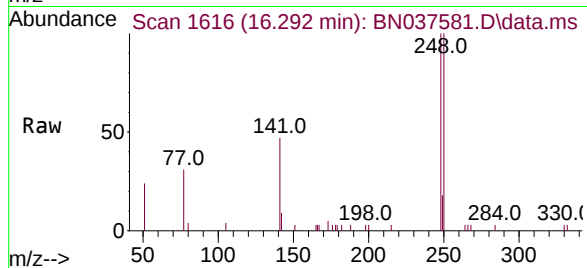




#21
4-Bromophenyl-phenylether
Concen: 0.754 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

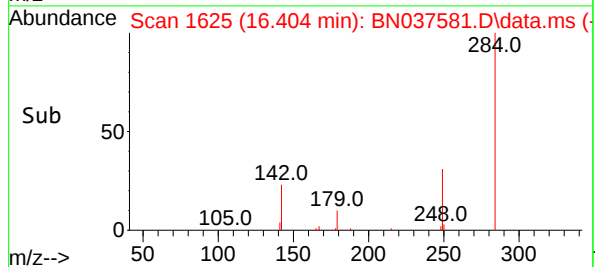
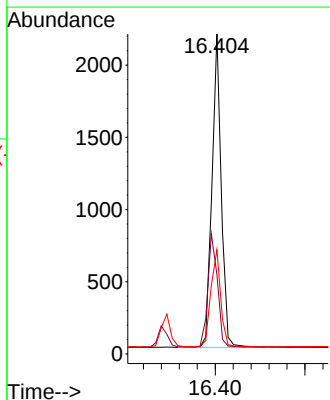
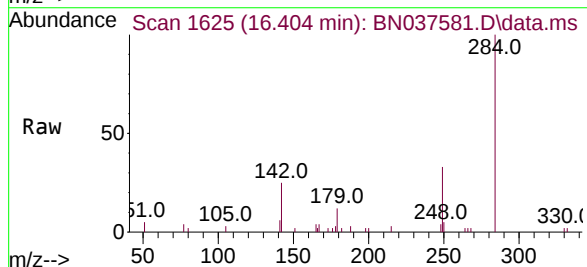
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

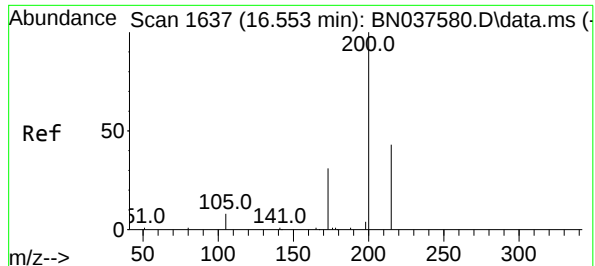
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.1	78.6	118.0
141	47.3	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.745 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.6	29.8	44.6
249	32.9	26.0	39.0

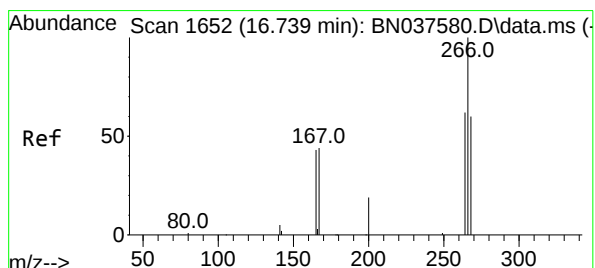
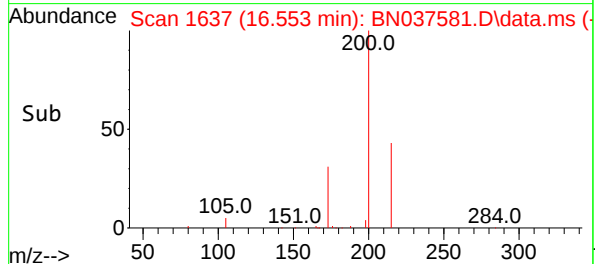
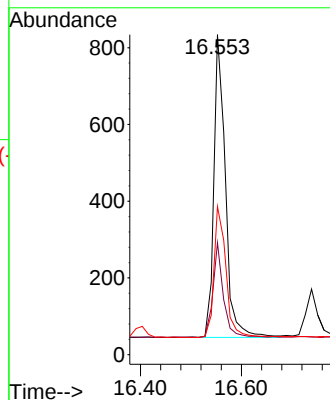
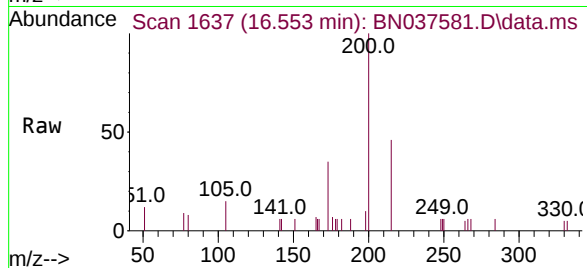




#23
Atrazine
Concen: 0.752 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

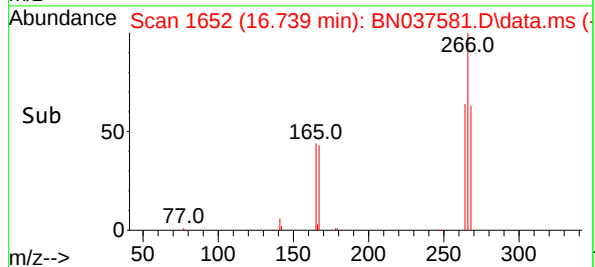
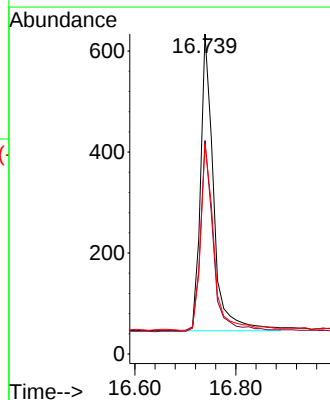
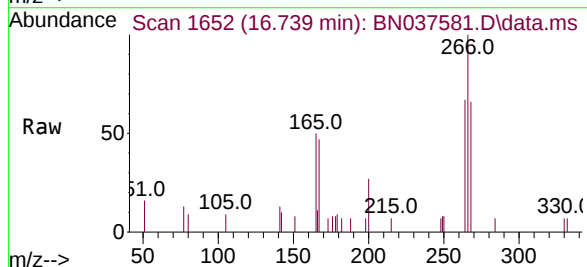
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

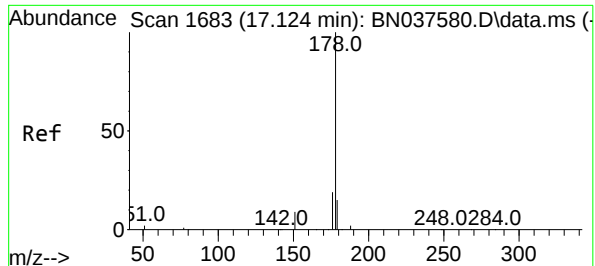
Tgt Ion	200	Resp:	1251
Ion Ratio	Lower	Upper	
200	100		
173	35.0	31.0	46.4
215	46.3	39.4	59.0



#24
Pentachlorophenol
Concen: 0.725 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion	266	Resp:	1061
Ion Ratio	Lower	Upper	
266	100		
264	62.3	49.6	74.4
268	63.9	49.2	73.8

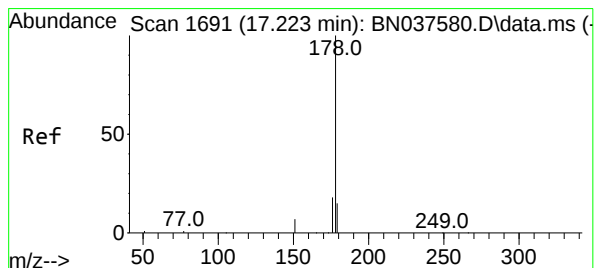
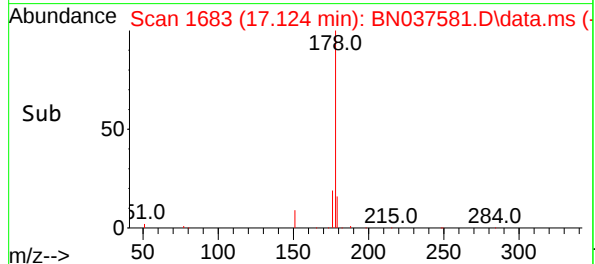
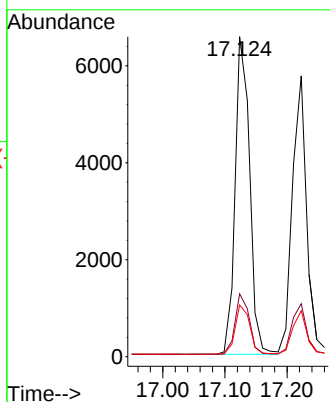
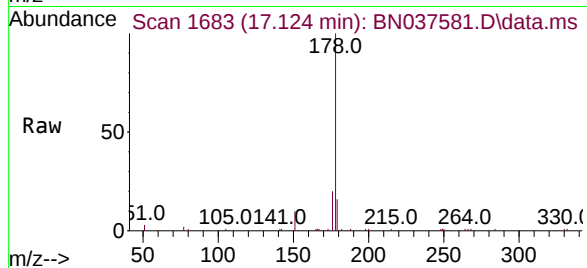




#25
Phenanthrene
Concen: 0.749 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

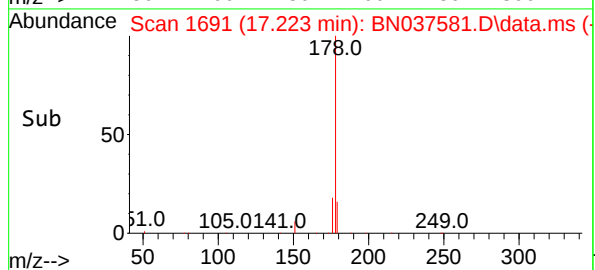
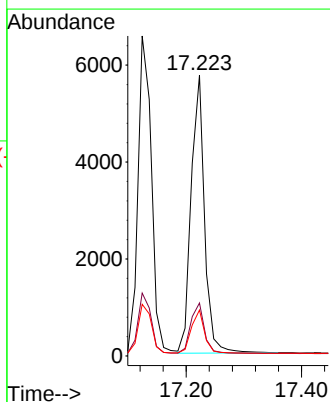
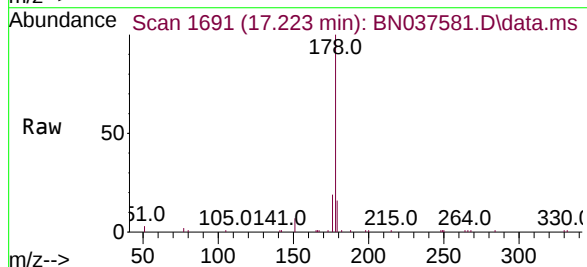
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

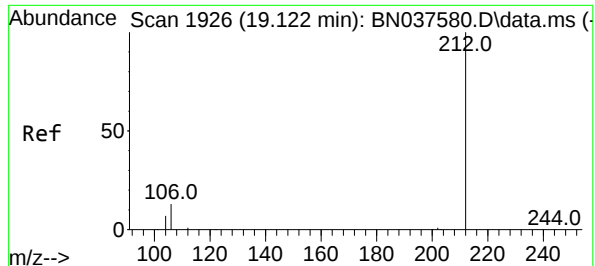
Tgt Ion:178 Resp: 10654
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.7 12.3 18.5



#26
Anthracene
Concen: 0.734 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:178 Resp: 9251
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.6 12.3 18.5

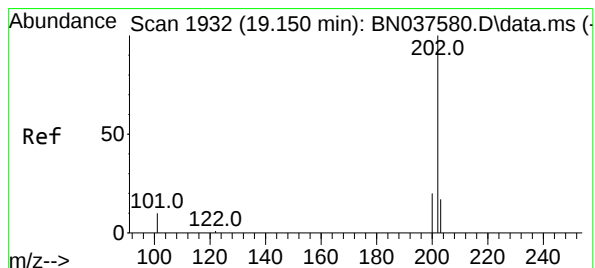
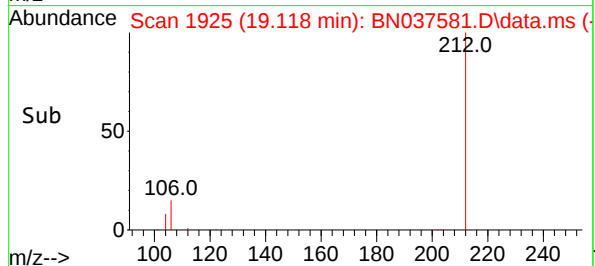
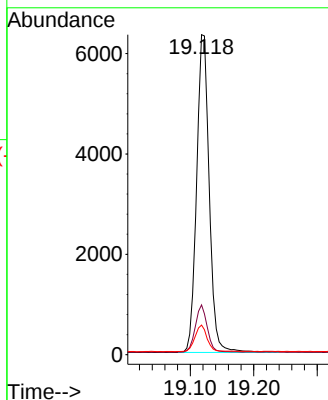
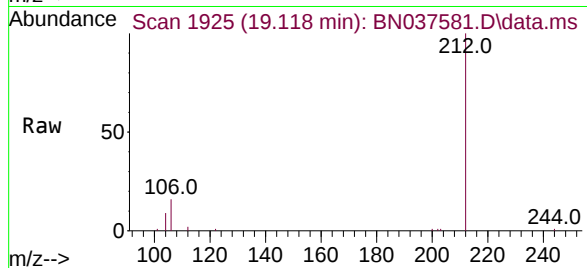




#27
Fluoranthene-d10
Concen: 0.711 ng
RT: 19.118 min Scan# 1918
Delta R.T. -0.005 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

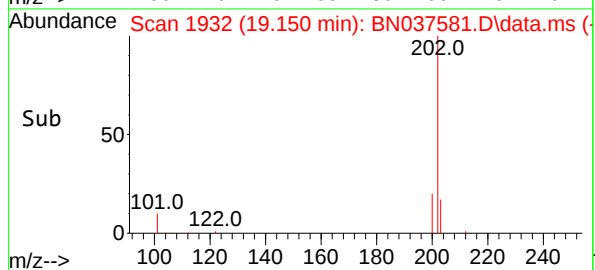
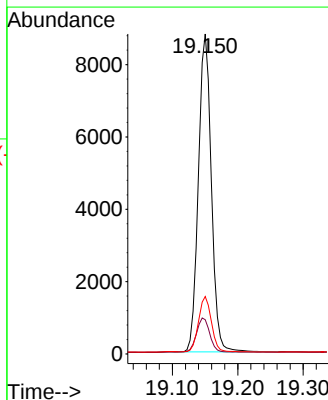
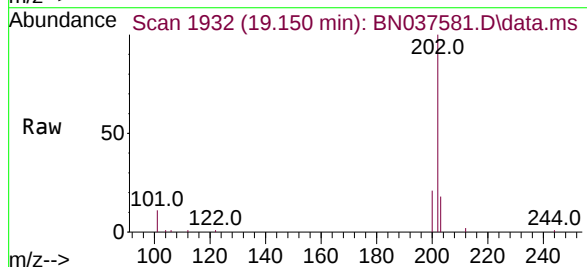
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

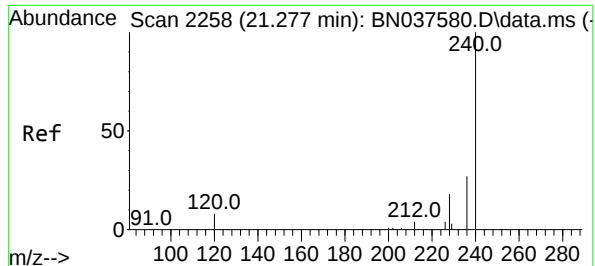
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.5	17.3
104	8.2	6.6	9.8



#28
Fluoranthene
Concen: 0.740 ng
RT: 19.150 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.0	13.6
203	17.4	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

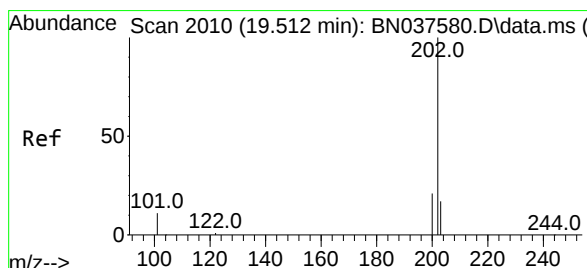
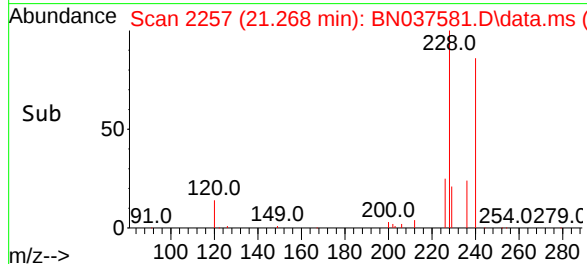
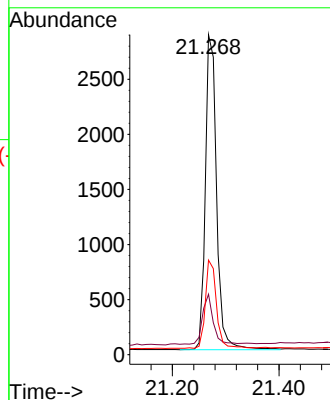
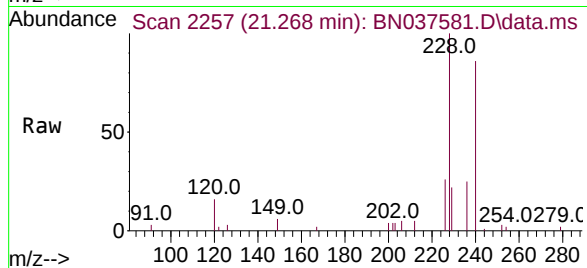
Tgt Ion:240 Resp: 4185

Ion Ratio Lower Upper

240 100

120 18.9 8.9 13.3#

236 29.5 22.6 33.8



#30

Pyrene

Concen: 0.751 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

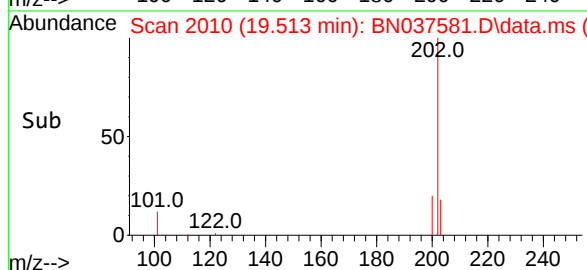
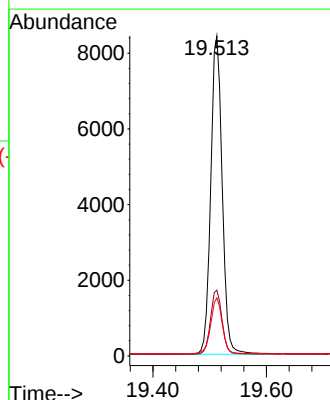
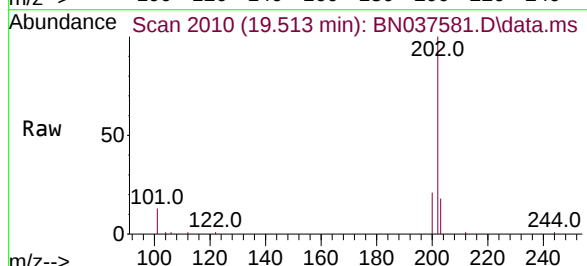
Tgt Ion:202 Resp: 11747

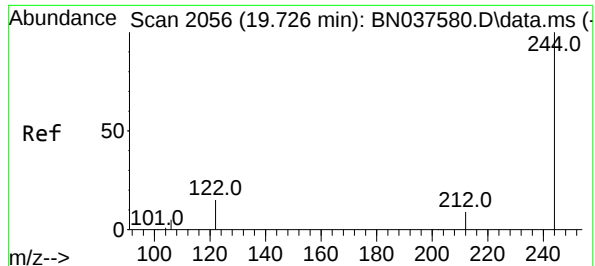
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 17.9 14.3 21.5

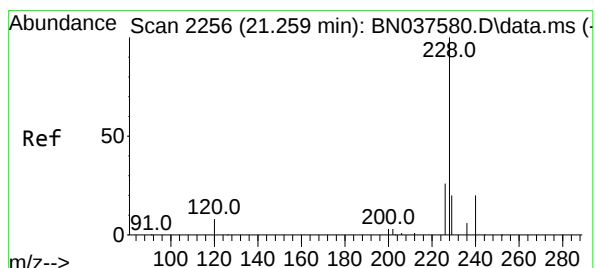
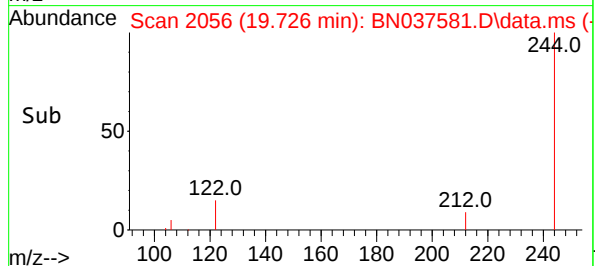
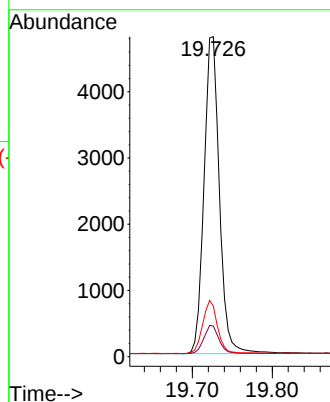
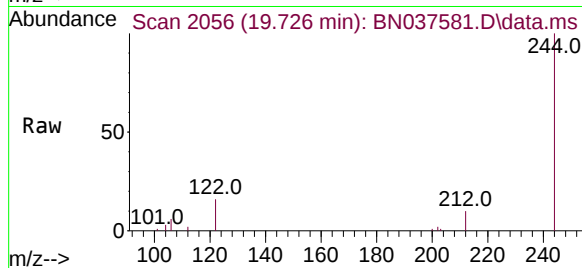




#31
Terphenyl-d14
Concen: 0.741 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

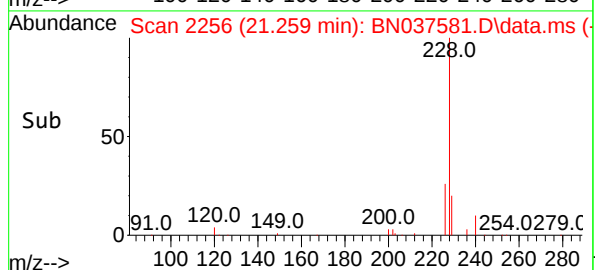
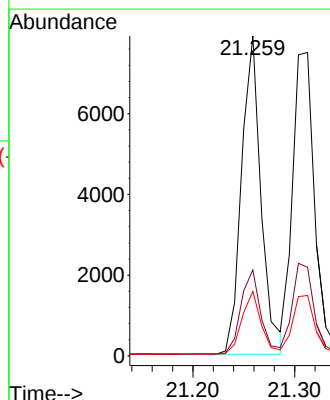
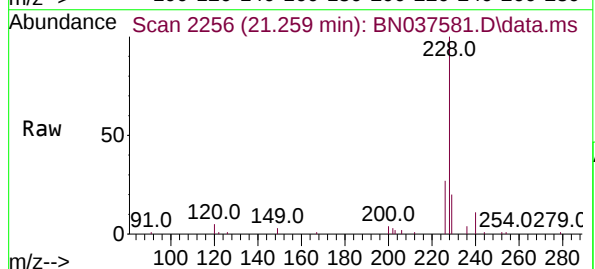
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

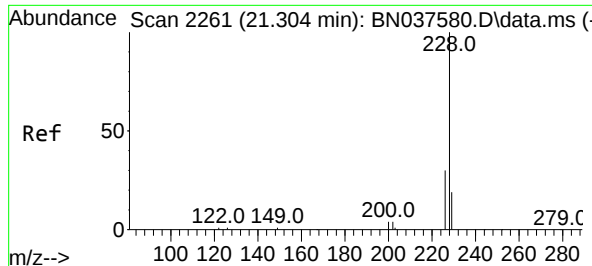
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.2	12.2
122	15.9	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.5	32.3
229	20.1	16.5	24.7





#33

Chrysene

Concen: 0.741 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

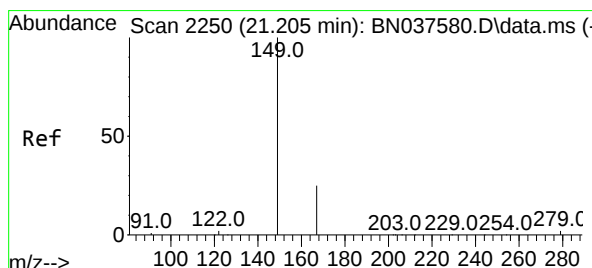
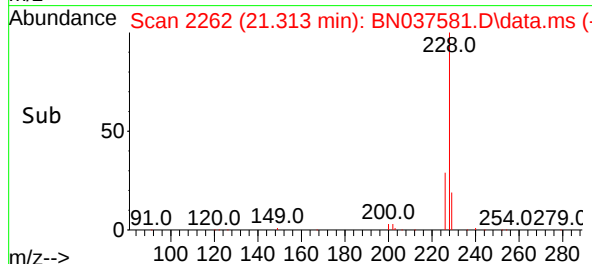
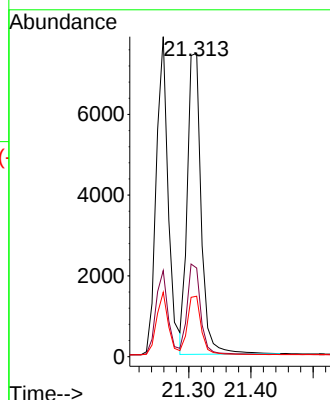
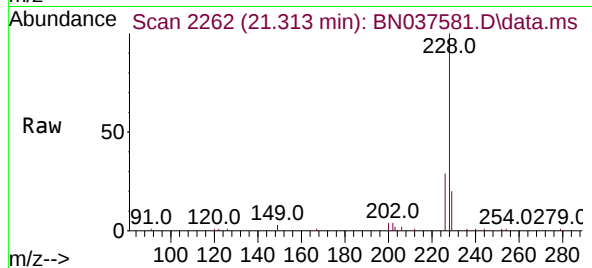
Tgt Ion:228 Resp: 11541

Ion Ratio Lower Upper

228 100

226 29.2 24.9 37.3

229 19.9 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.701 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

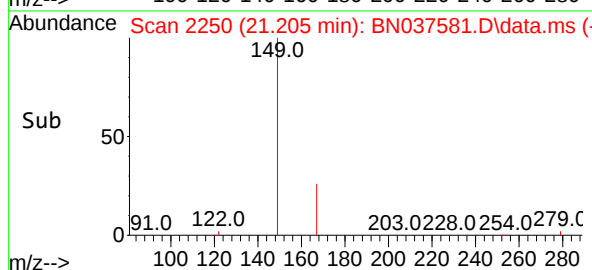
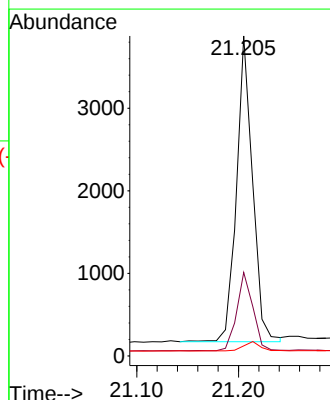
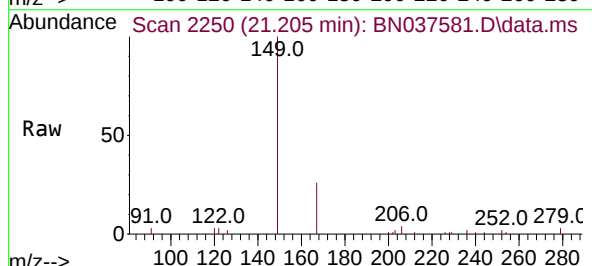
Tgt Ion:149 Resp: 4046

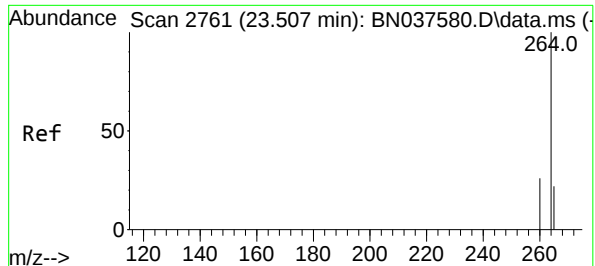
Ion Ratio Lower Upper

149 100

167 25.8 20.5 30.7

279 3.2 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037581.D

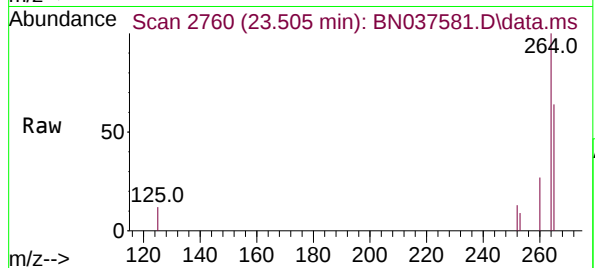
Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



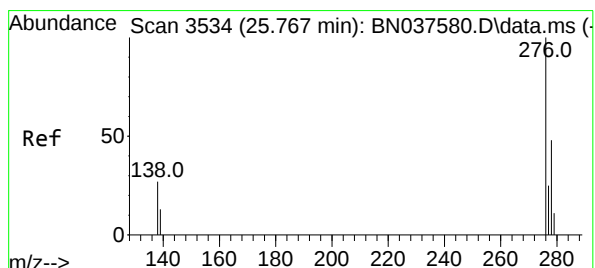
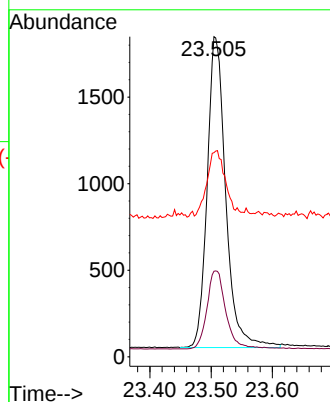
Tgt Ion:264 Resp: 3775

Ion Ratio Lower Upper

264 100

260 26.7 21.6 32.4

265 63.8 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.744 ng

RT: 25.770 min Scan# 3535

Delta R.T. 0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

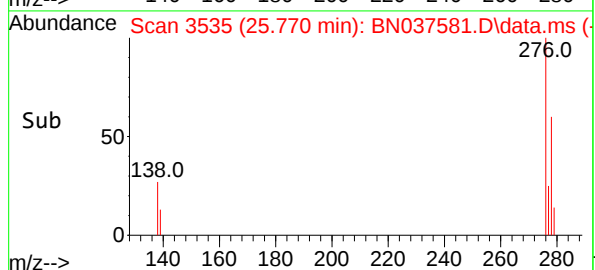
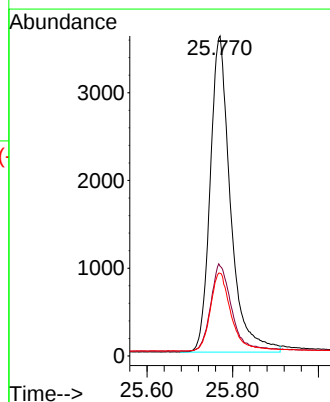
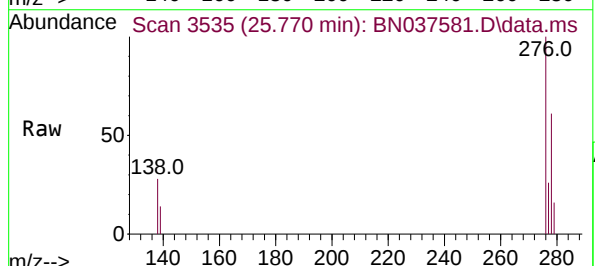
Tgt Ion:276 Resp: 11835

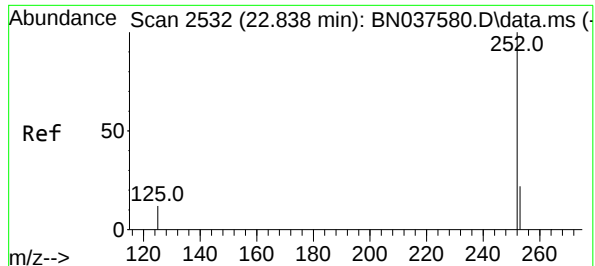
Ion Ratio Lower Upper

276 100

138 28.4 23.3 34.9

277 25.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.756 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

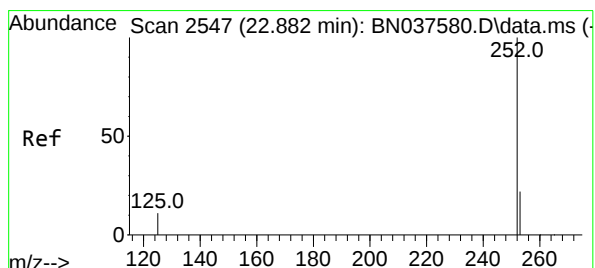
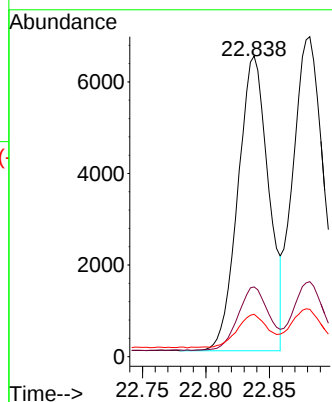
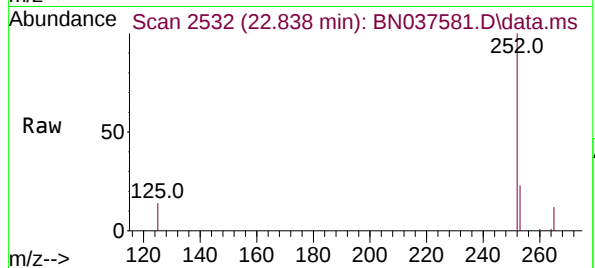
Tgt Ion:252 Resp: 10811

Ion Ratio Lower Upper

252 100

253 23.2 20.0 30.0

125 14.1 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.761 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

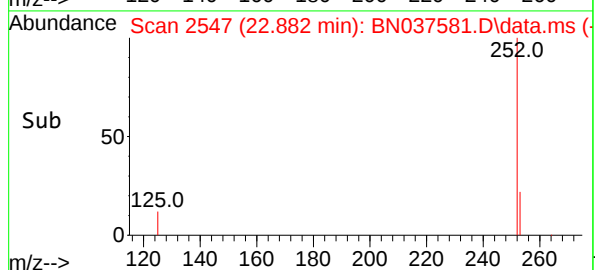
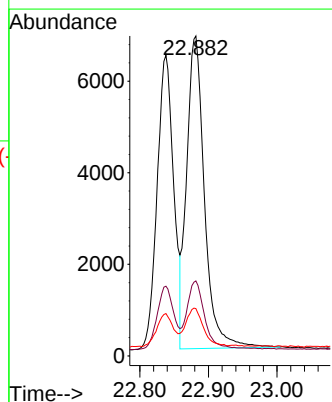
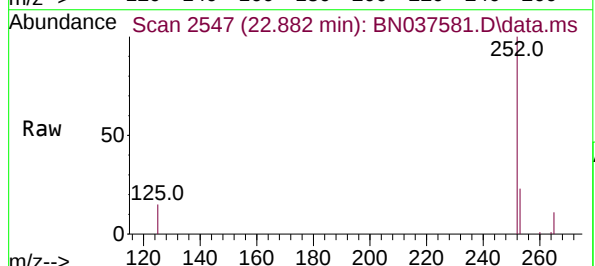
Tgt Ion:252 Resp: 12288

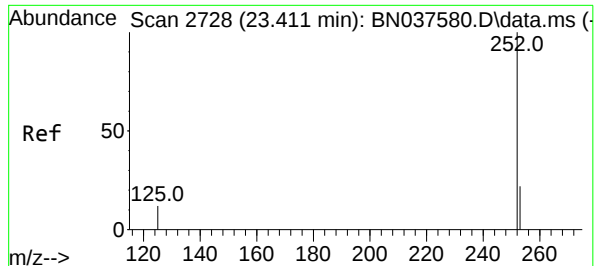
Ion Ratio Lower Upper

252 100

253 23.4 19.9 29.9

125 14.8 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 0.736 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037581.D

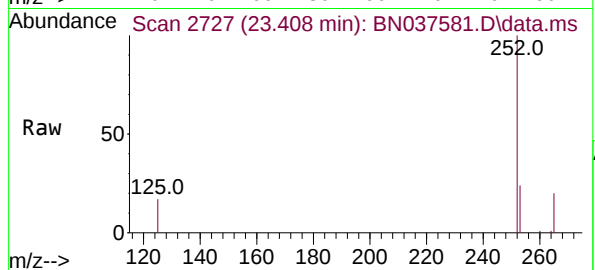
Acq: 12 Aug 2025 18:16

Instrument :

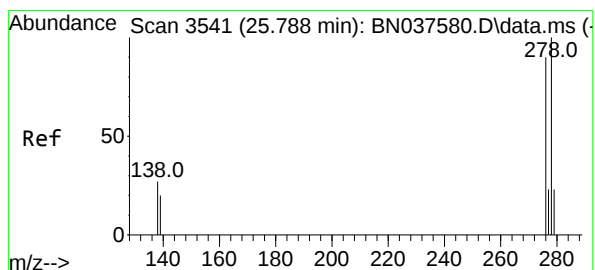
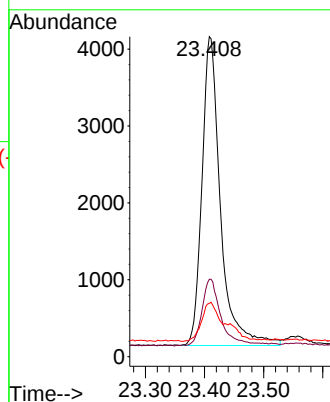
BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:	252	Resp:	8737
Ion Ratio	Lower	Upper	
252	100		
253	24.2	21.6	32.4
125	16.7	16.8	25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.743 ng

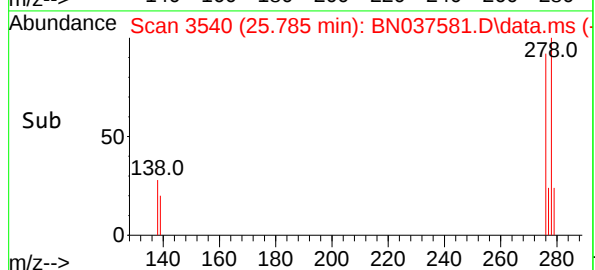
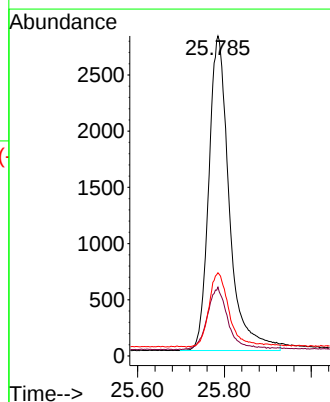
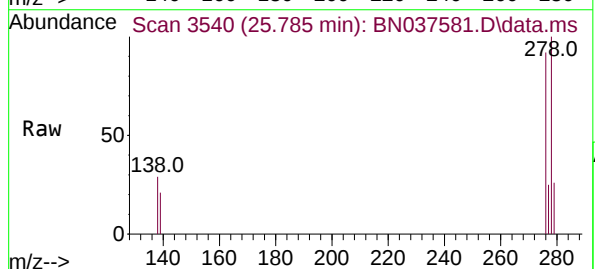
RT: 25.785 min Scan# 3540

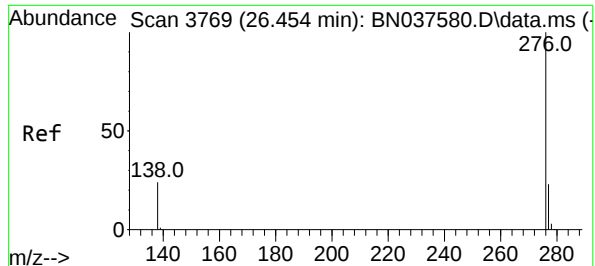
Delta R.T. -0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Tgt Ion:	278	Resp:	9175
Ion Ratio	Lower	Upper	
278	100		
139	21.5	18.3	27.5
279	26.0	22.5	33.7





#41

Benzo(g,h,i)perylene

Concen: 0.732 ng

RT: 26.454 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037581.D

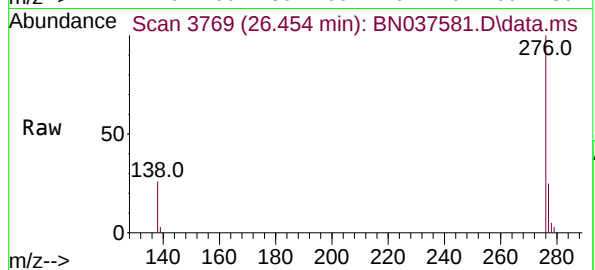
Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



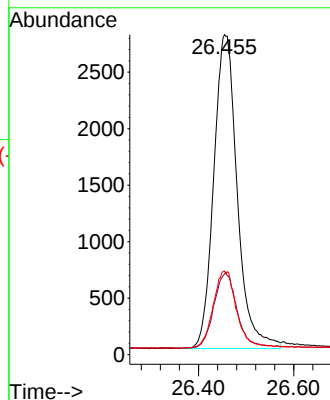
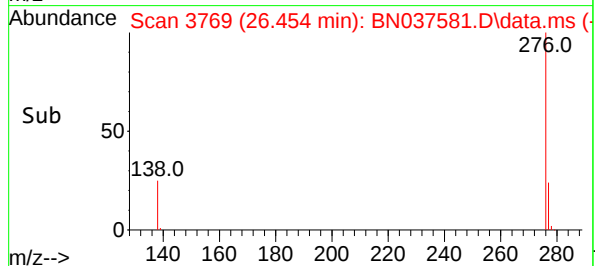
Tgt Ion:276 Resp: 9524

Ion Ratio Lower Upper

276 100

277 25.2 21.0 31.4

138 26.2 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037582.D
 Acq On : 12 Aug 2025 18:52
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Aug 13 04:49:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

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

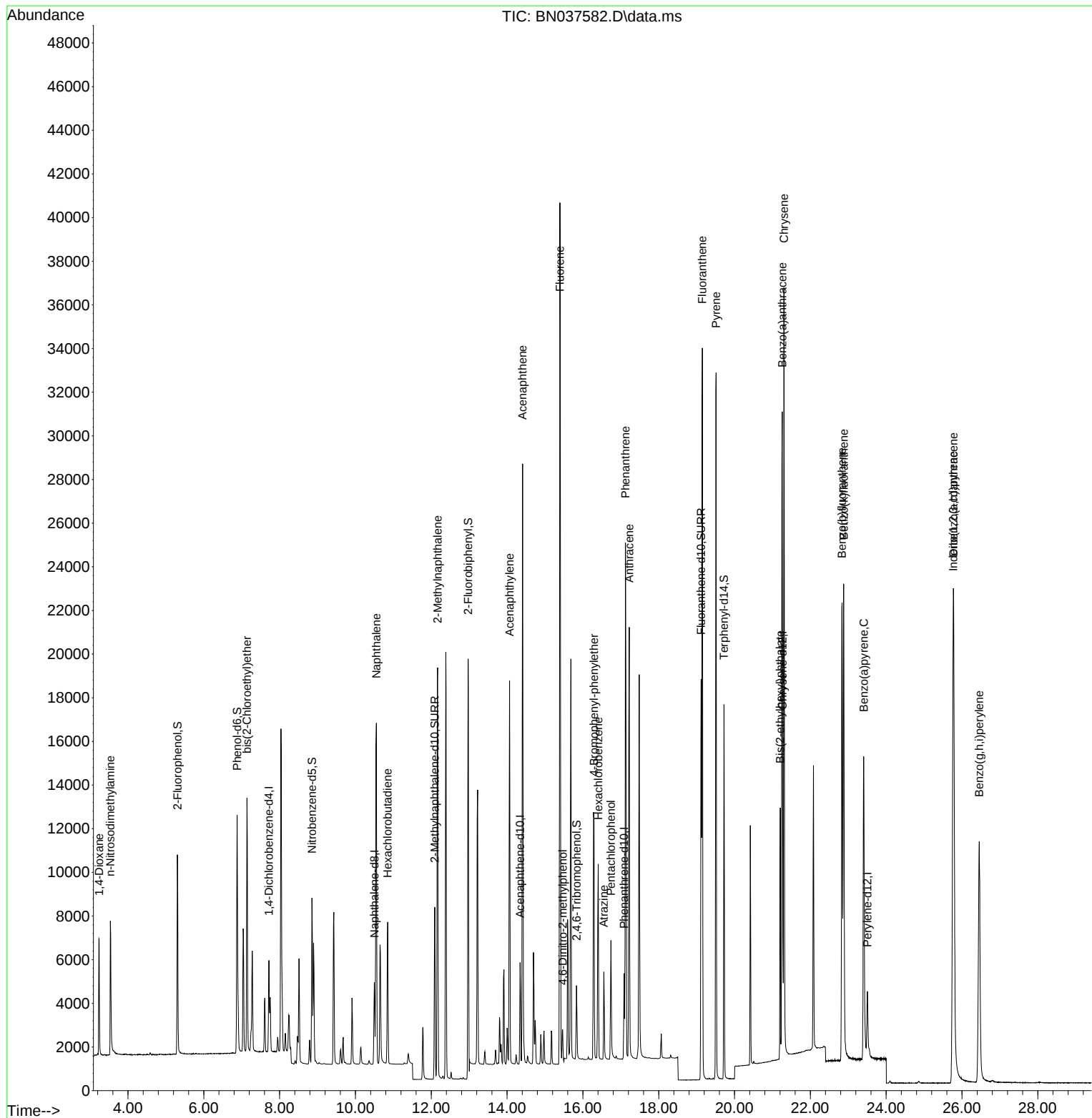
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1999	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4868	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2499	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4868	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4728	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	4054	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	7088	1.564	ng	0.00
5) Phenol-d6	6.879	99	9580	1.757	ng	0.00
8) Nitrobenzene-d5	8.854	82	5686	1.658	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	10567	1.597	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	1852	1.693	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	23403	1.619	ng	0.00
27) Fluoranthene-d10	19.118	212	20450	1.597	ng	0.00
31) Terphenyl-d14	19.722	244	15761	1.620	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	3171	1.658	ng	97
3) n-Nitrosodimethylamine	3.535	42	3942	1.613	ng	97
6) bis(2-Chloroethyl)ether	7.139	93	8159	1.660	ng	98
9) Naphthalene	10.552	128	21204	1.636	ng	98
10) Hexachlorobutadiene	10.851	225	5193	1.640	ng	# 100
12) 2-Methylnaphthalene	12.167	142	13647	1.679	ng	99
16) Acenaphthylene	14.067	152	18492	1.651	ng	100
17) Acenaphthene	14.409	154	12820	1.682	ng	96
18) Fluorene	15.393	166	16858	1.691	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	1182	1.517	ng	# 56
21) 4-Bromophenyl-phenylether	16.292	248	5158	1.686	ng	94
22) Hexachlorobenzene	16.404	284	7080	1.633	ng	100
23) Atrazine	16.553	200	3118	1.803	ng	93
24) Pentachlorophenol	16.739	266	2704	1.775	ng	99
25) Phenanthrene	17.124	178	24938	1.685	ng	100
26) Anthracene	17.223	178	22287	1.701	ng	100
28) Fluoranthene	19.150	202	29263	1.721	ng	100
30) Pyrene	19.513	202	28406	1.607	ng	99
32) Benzo(a)anthracene	21.259	228	25547	1.618	ng	99
33) Chrysene	21.304	228	28577	1.624	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	9868	1.514	ng	99
36) Indeno(1,2,3-cd)pyrene	25.768	276	29448	1.724	ng	99
37) Benzo(b)fluoranthene	22.835	252	26189	1.705	ng	# 92
38) Benzo(k)fluoranthene	22.879	252	29528	1.703	ng	# 91
39) Benzo(a)pyrene	23.408	252	21441	1.683	ng	# 89
40) Dibenzo(a,h)anthracene	25.779	278	23334	1.761	ng	93
41) Benzo(g,h,i)perylene	26.455	276	23781	1.703	ng	96

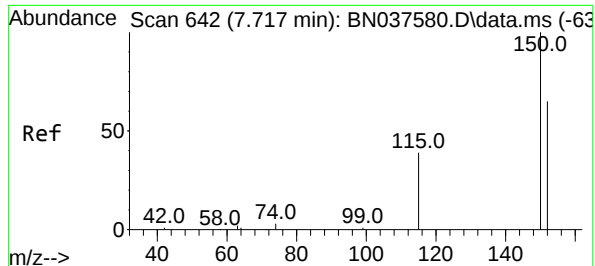
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037582.D
Acq On : 12 Aug 2025 18:52
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 13 04:49:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

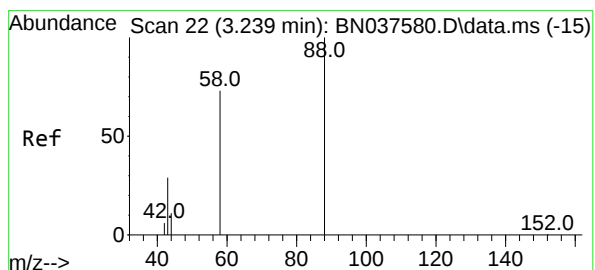
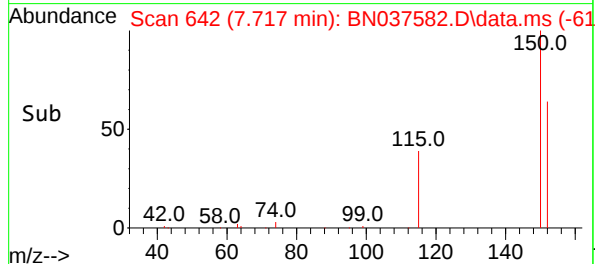
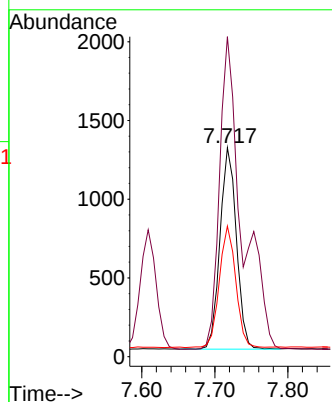
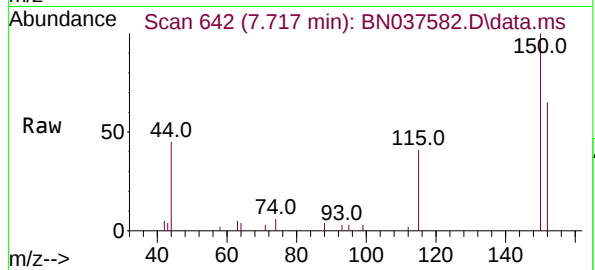




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

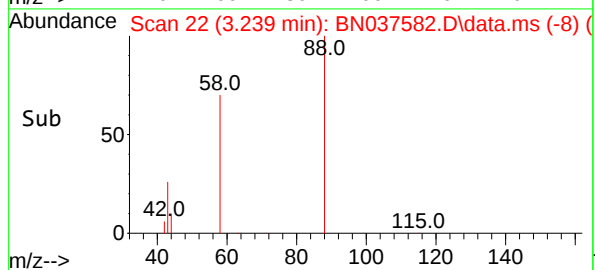
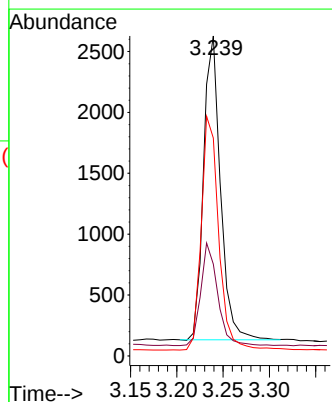
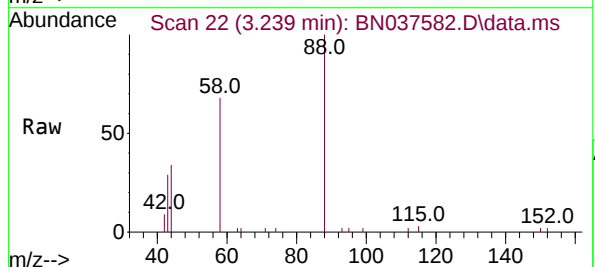
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

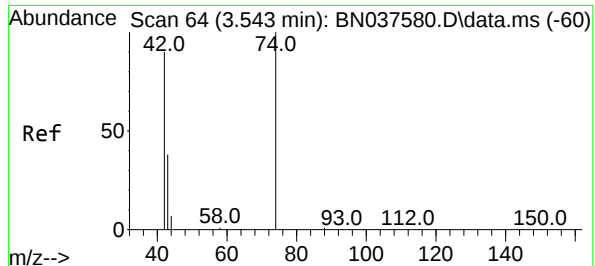
Tgt Ion:152 Resp: 1999
Ion Ratio Lower Upper
152 100
150 153.1 122.2 183.4
115 62.5 49.8 74.6



#2
1,4-Dioxane
Concen: 1.658 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion: 88 Resp: 3171
Ion Ratio Lower Upper
88 100
43 33.6 25.8 38.6
58 79.6 61.2 91.8

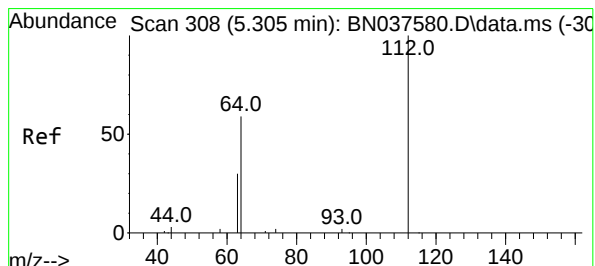
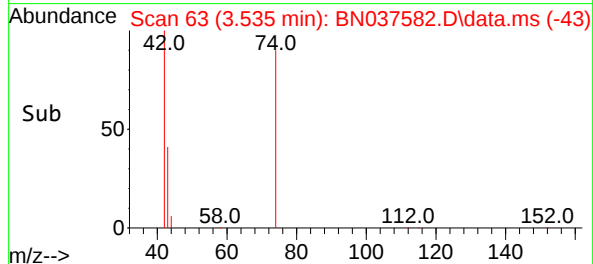
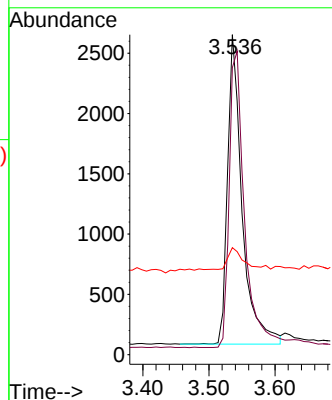
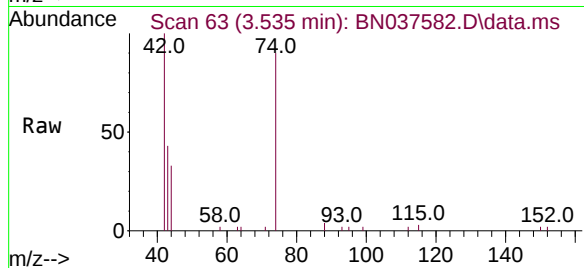




#3
n-Nitrosodimethylamine
Concen: 1.613 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

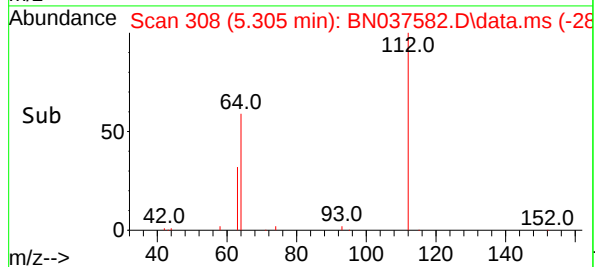
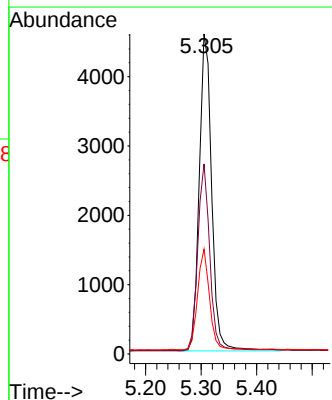
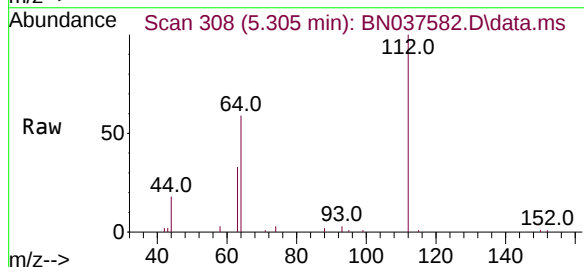
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

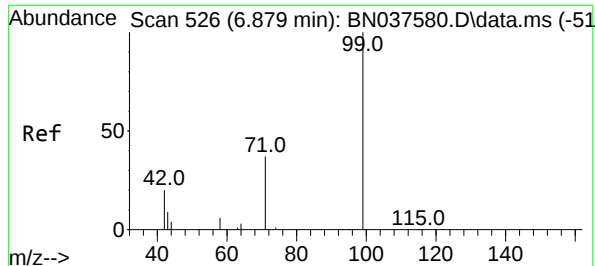
Tgt Ion: 42 Resp: 3942
Ion Ratio Lower Upper
42 100
74 105.0 82.0 123.0
44 8.0 7.9 11.9



#4
2-Fluorophenol
Concen: 1.564 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion: 112 Resp: 7088
Ion Ratio Lower Upper
112 100
64 56.7 44.9 67.3
63 30.5 23.4 35.2





#5

Phenol-d6

Concen: 1.757 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

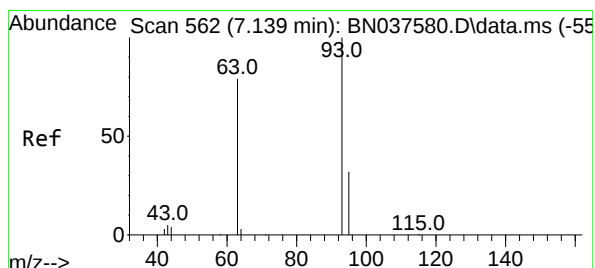
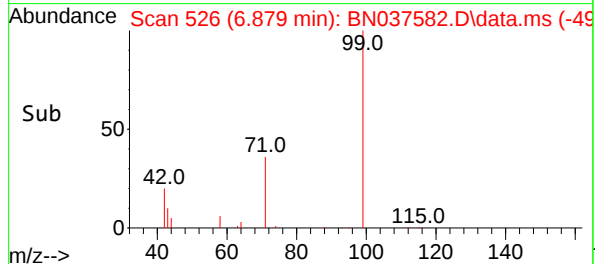
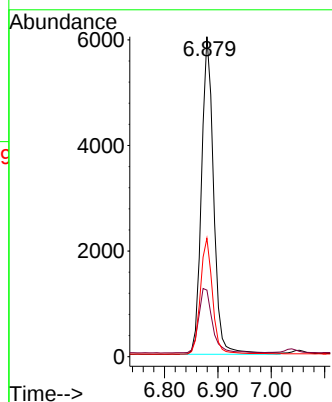
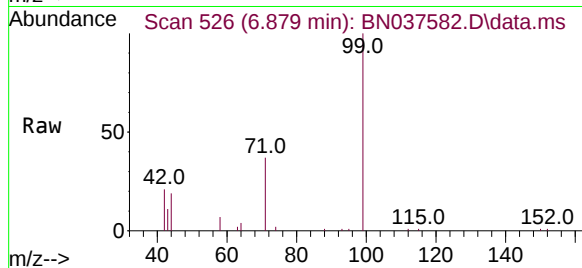
Tgt Ion: 99 Resp: 9580

Ion Ratio Lower Upper

99 100

42 22.9 18.5 27.7

71 36.8 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 1.660 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

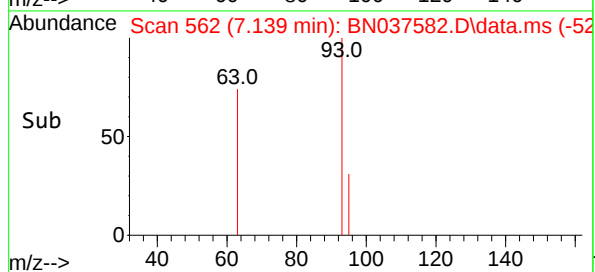
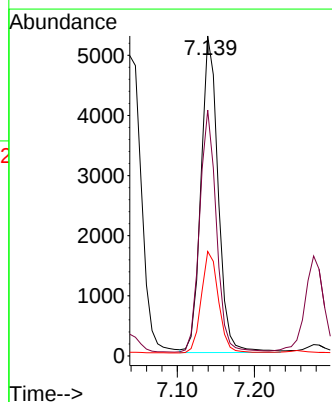
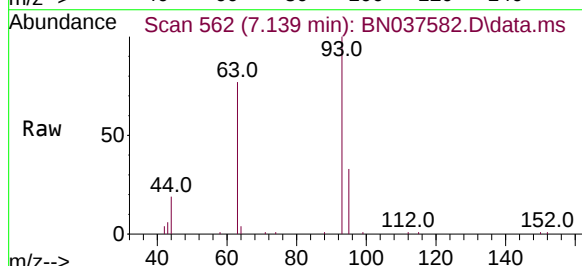
Tgt Ion: 93 Resp: 8159

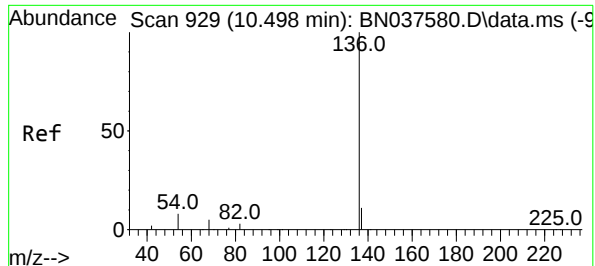
Ion Ratio Lower Upper

93 100

63 74.6 58.0 87.0

95 32.2 24.9 37.3

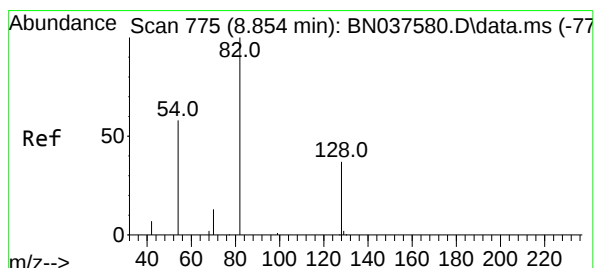
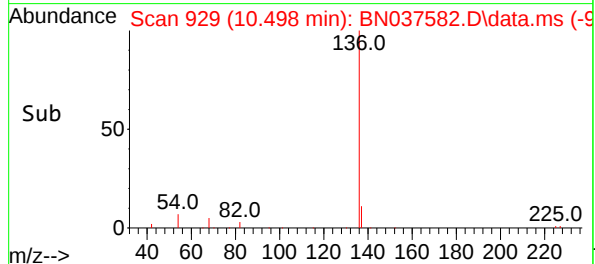
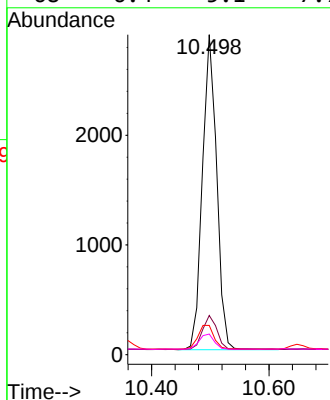
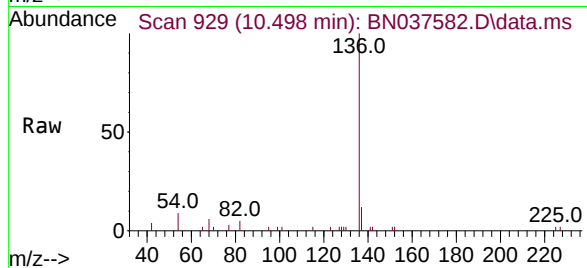




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

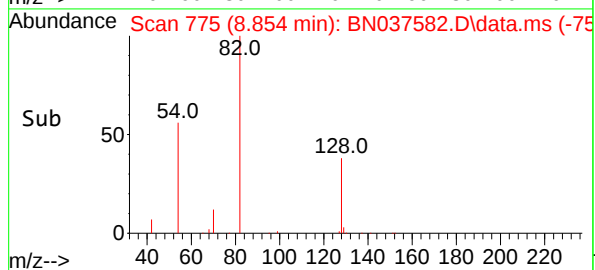
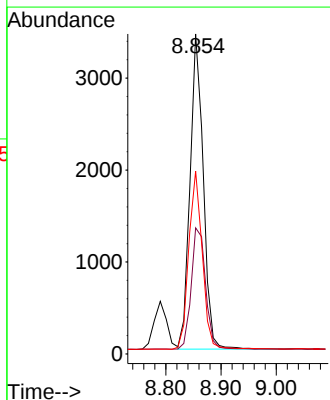
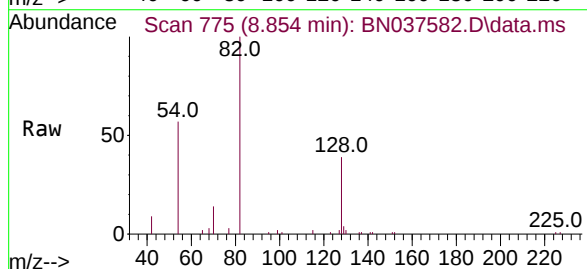
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

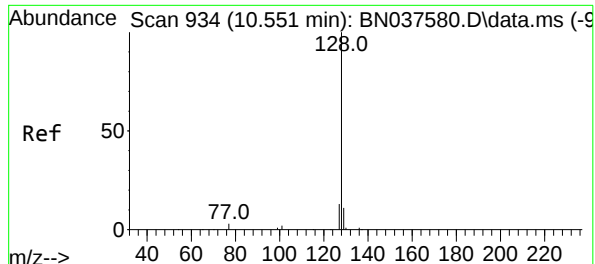
Tgt Ion:	136	Resp:	4868
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	9.1	7.3	10.9
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 1.658 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:	82	Resp:	5686
Ion	Ratio	Lower	Upper
82	100		
128	39.4	32.6	48.8
54	57.2	48.9	73.3





#9

Naphthalene

Concen: 1.636 ng

RT: 10.552 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

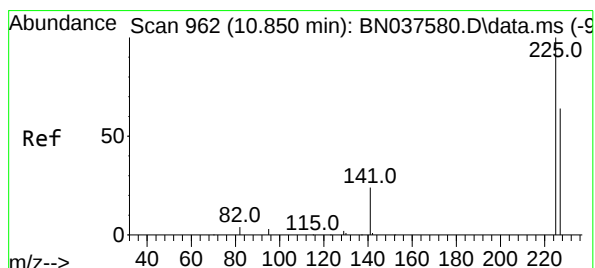
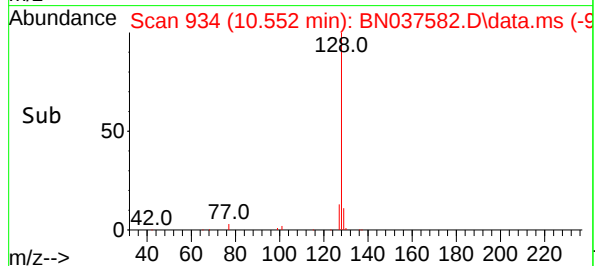
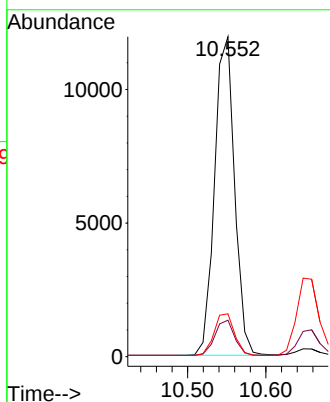
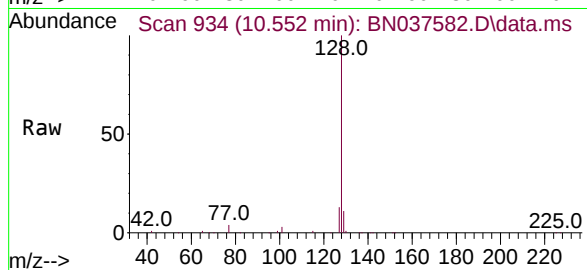
Tgt Ion:128 Resp: 21204

Ion Ratio Lower Upper

128 100

129 11.4 9.8 14.6

127 13.4 11.5 17.3



#10

Hexachlorobutadiene

Concen: 1.640 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

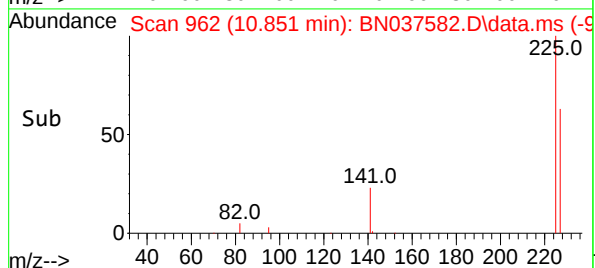
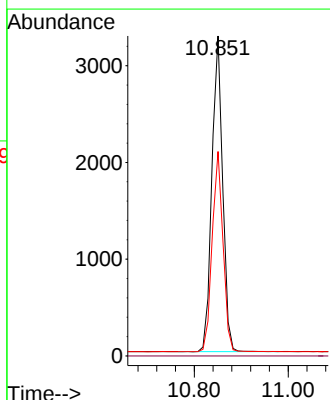
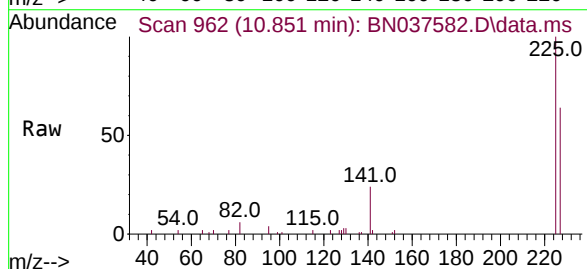
Tgt Ion:225 Resp: 5193

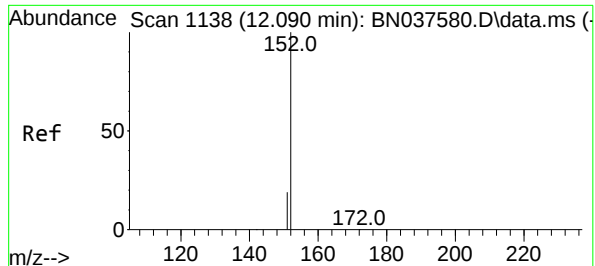
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 50.8 76.2

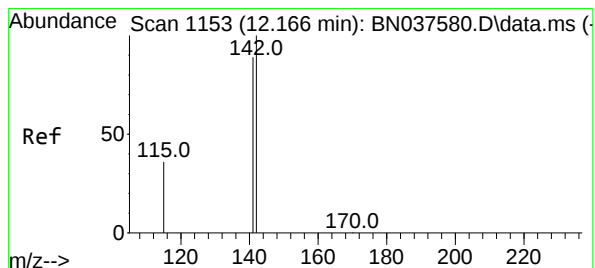
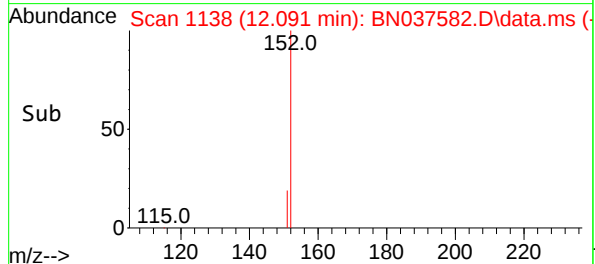
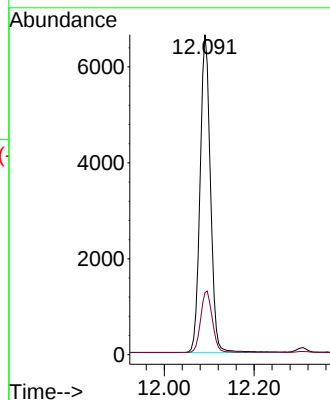
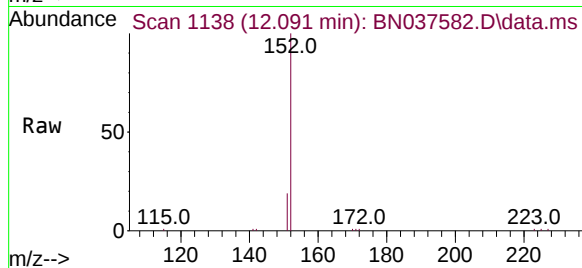




#11
2-Methylnaphthalene-d10
Concen: 1.597 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

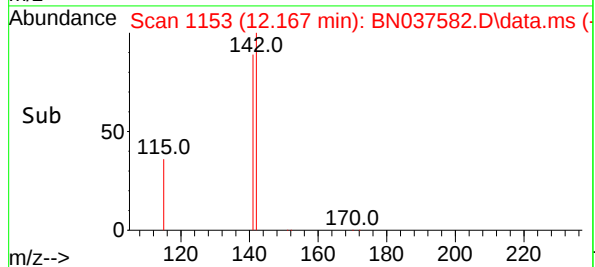
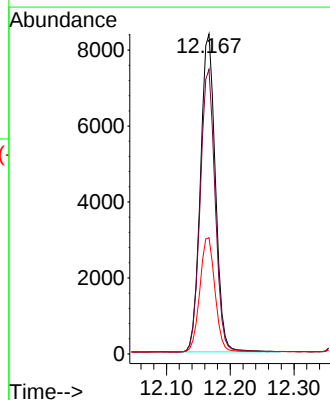
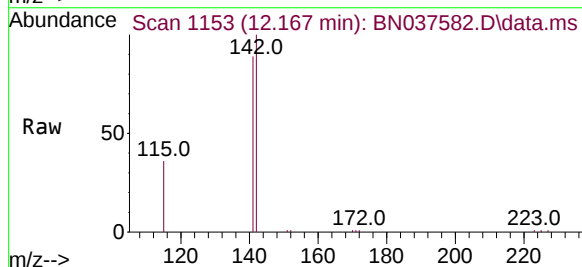
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

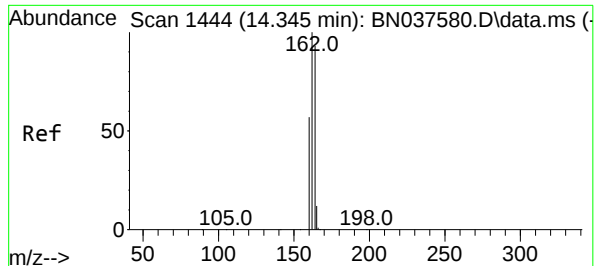
Tgt Ion:152 Resp: 10567
Ion Ratio Lower Upper
152 100
151 21.8 17.3 25.9



#12
2-Methylnaphthalene
Concen: 1.679 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:142 Resp: 13647
Ion Ratio Lower Upper
142 100
141 88.9 71.4 107.0
115 36.4 30.2 45.4

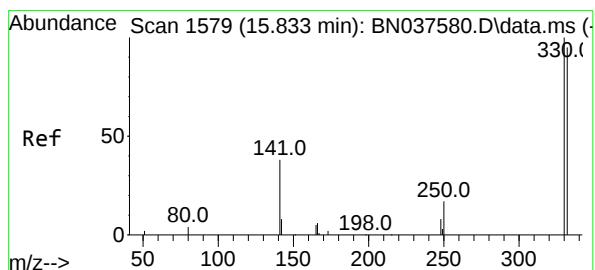
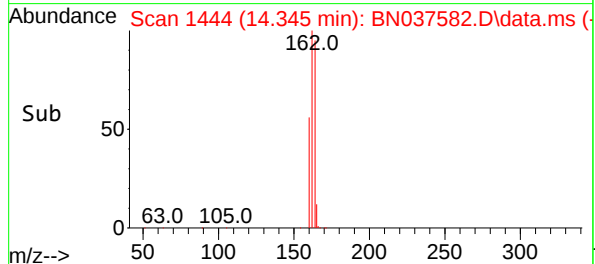
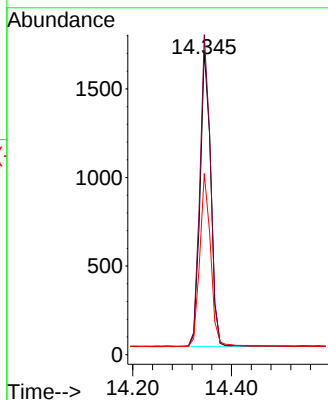
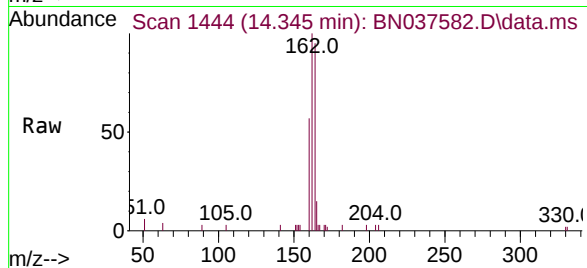




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

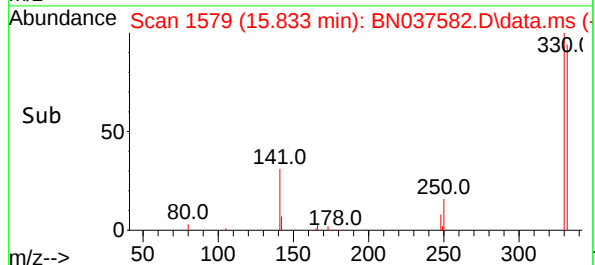
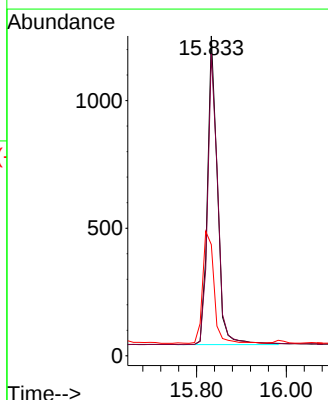
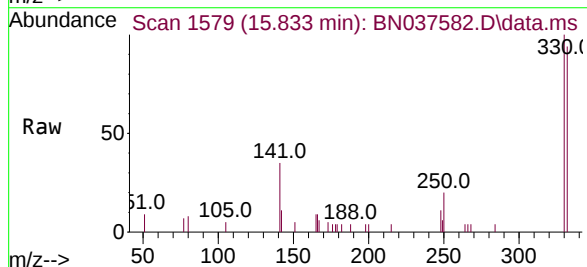
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

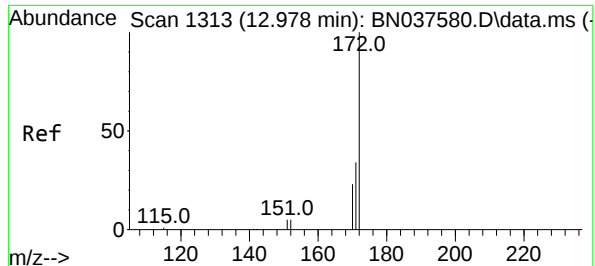
Tgt Ion	164	Resp:	2499
Ion	Ratio	Lower	Upper
164	100		
162	105.2	85.5	128.3
160	59.6	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 1.693 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion	330	Resp:	1852
Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.4	116.0
141	41.4	30.9	46.3

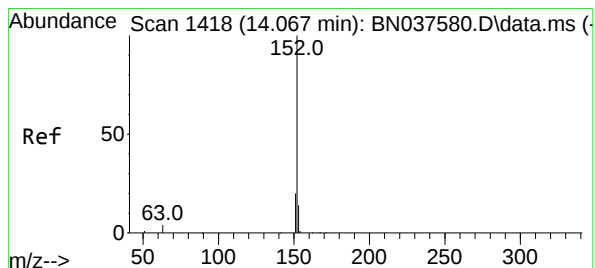
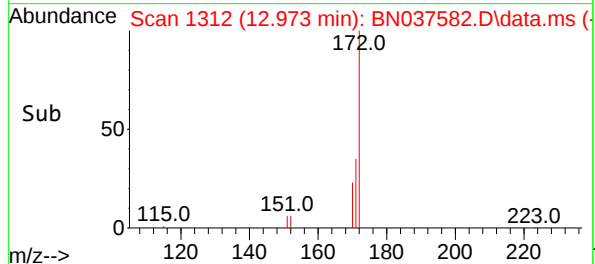
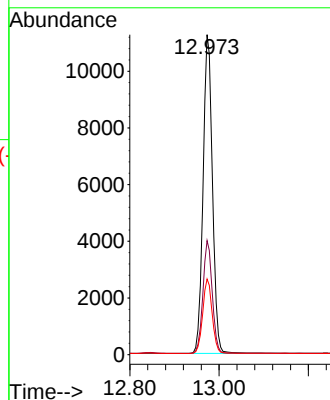
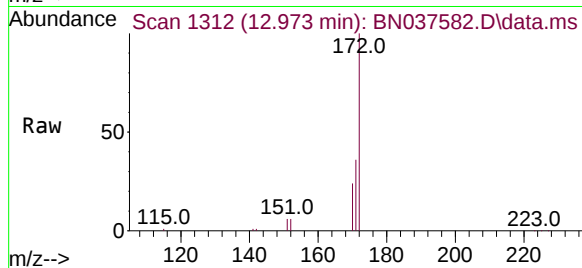




#15
2-Fluorobiphenyl
Concen: 1.619 ng
RT: 12.973 min Scan# 1312
Delta R.T. -0.005 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

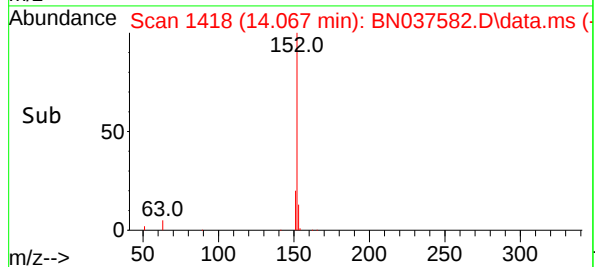
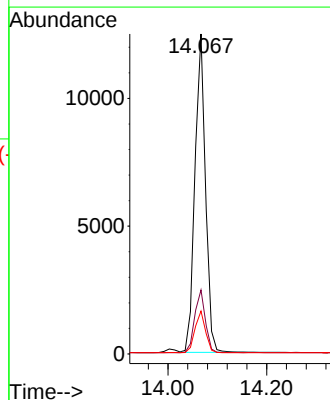
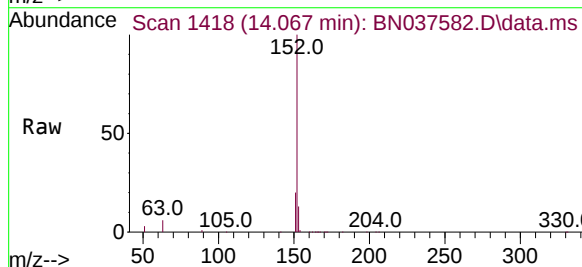
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

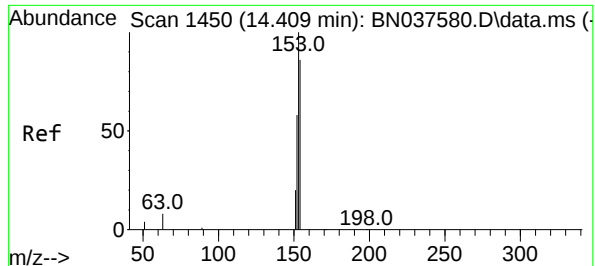
Tgt Ion:172 Resp: 23403
Ion Ratio Lower Upper
172 100
171 35.7 28.2 42.4
170 23.7 19.2 28.8



#16
Acenaphthylene
Concen: 1.651 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:152 Resp: 18492
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 13.0 10.7 16.1

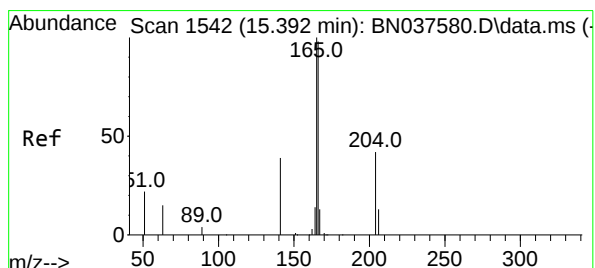
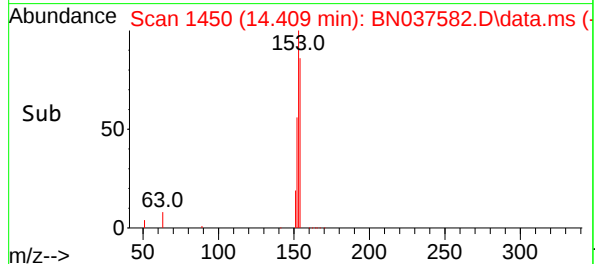
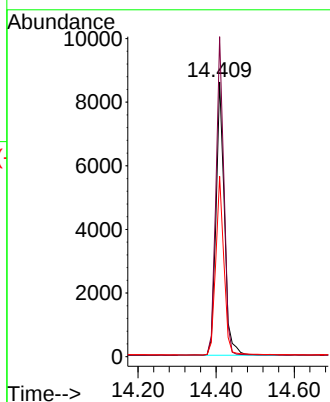
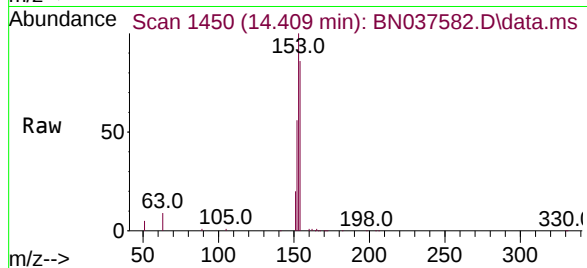




#17
Acenaphthene
Concen: 1.682 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

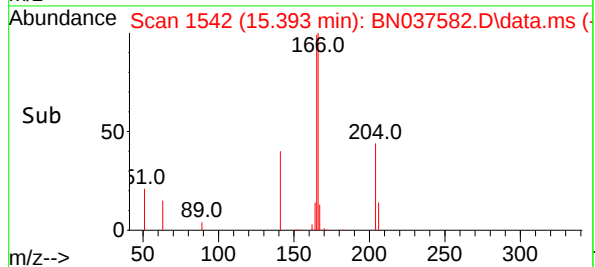
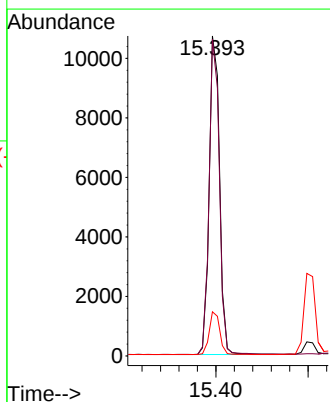
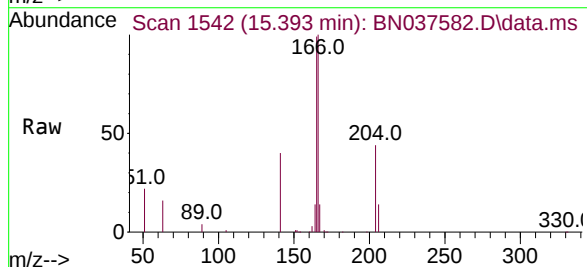
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

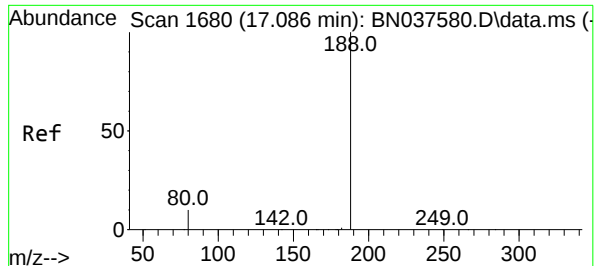
Tgt Ion:154 Resp: 12820
Ion Ratio Lower Upper
154 100
153 110.6 90.6 135.8
152 63.8 54.9 82.3



#18
Fluorene
Concen: 1.691 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:166 Resp: 16858
Ion Ratio Lower Upper
166 100
165 99.0 78.9 118.3
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

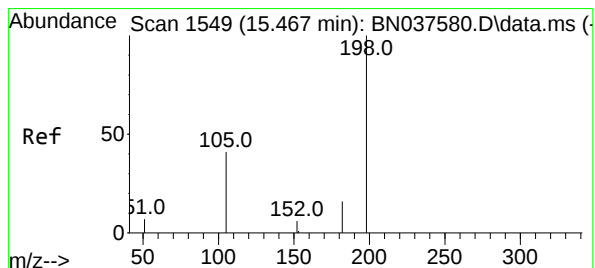
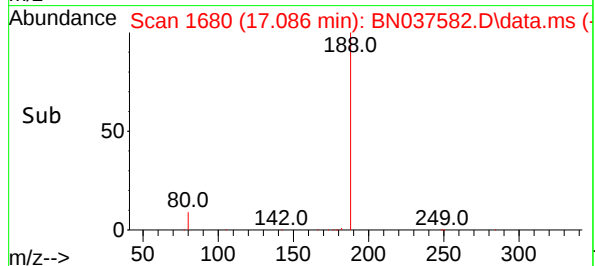
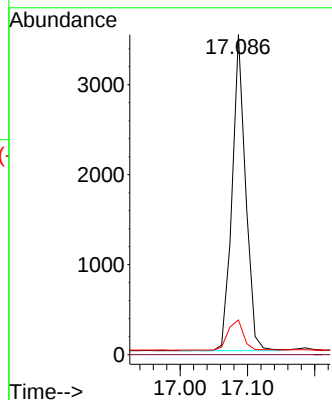
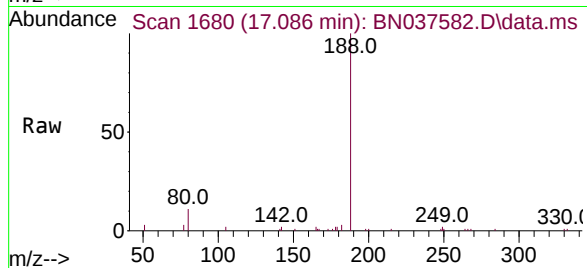
Tgt Ion:188 Resp: 4868

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 1.517 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

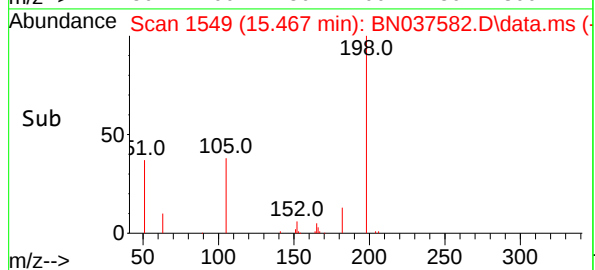
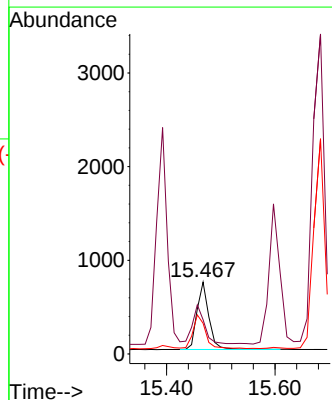
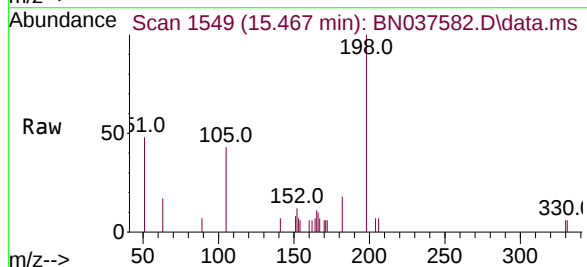
Tgt Ion:198 Resp: 1182

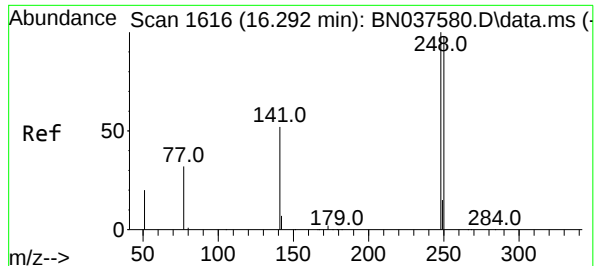
Ion Ratio Lower Upper

198 100

51 47.6 81.0 121.6#

105 42.8 52.5 78.7#

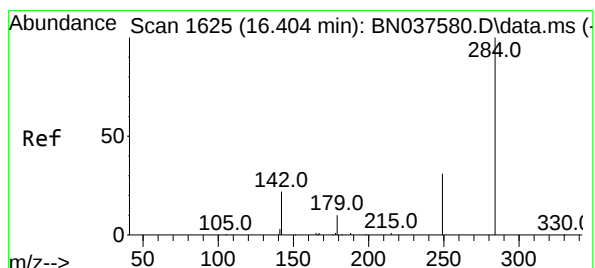
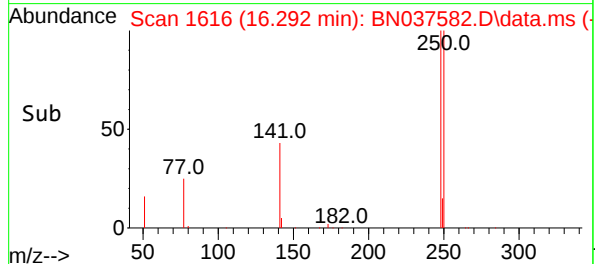
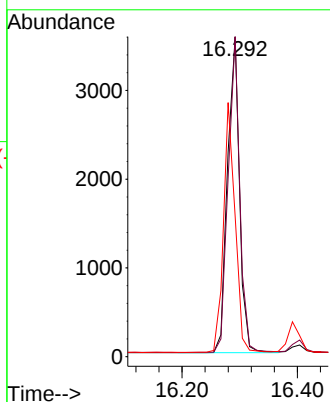
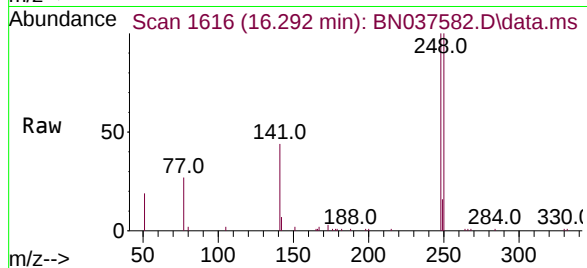




#21
4-Bromophenyl-phenylether
Concen: 1.686 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

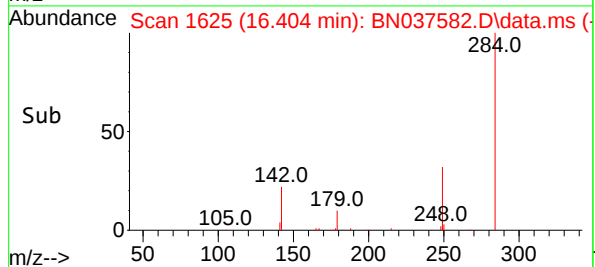
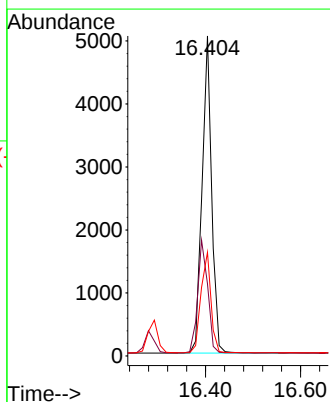
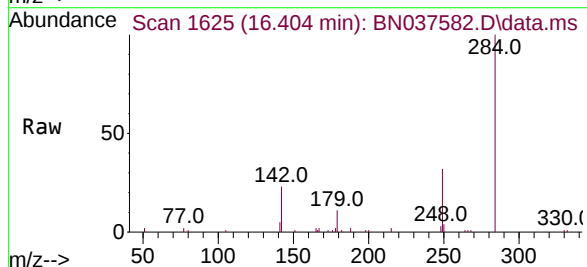
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

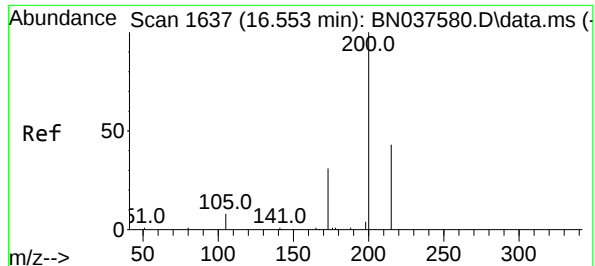
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.1	78.6	118.0
141	43.9	43.7	65.5



#22
Hexachlorobenzene
Concen: 1.633 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	29.8	44.6
249	33.1	26.0	39.0

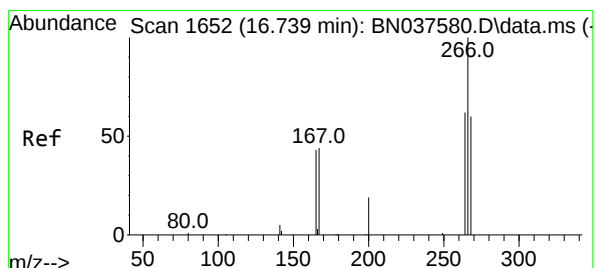
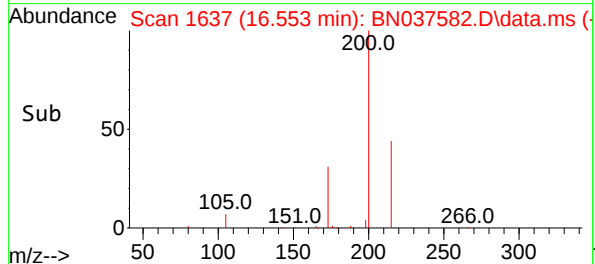
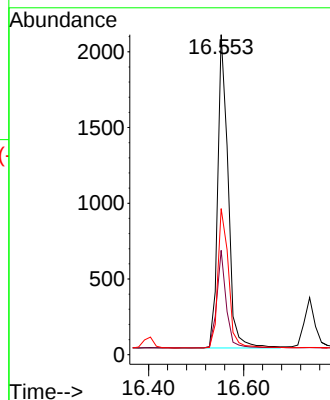
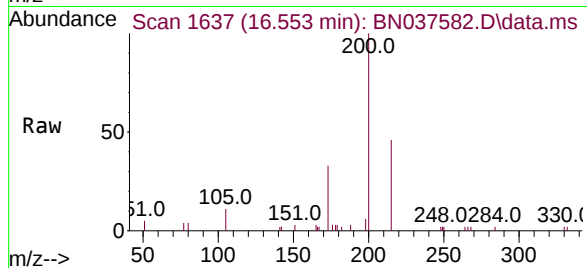




#23
Atrazine
Concen: 1.803 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

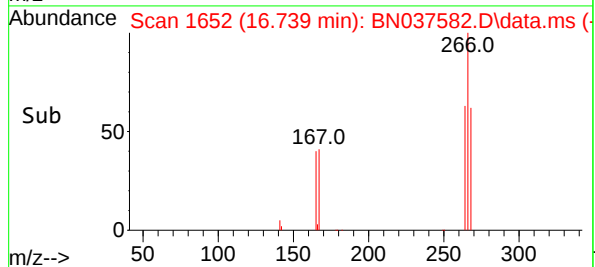
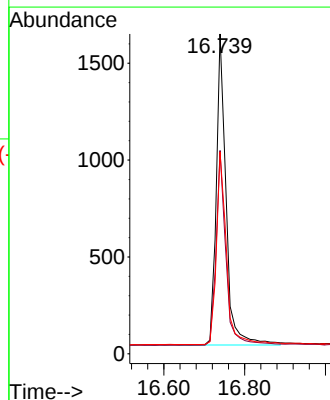
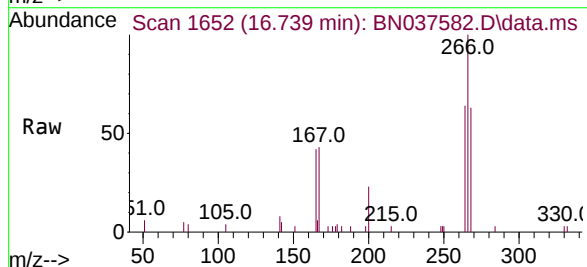
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

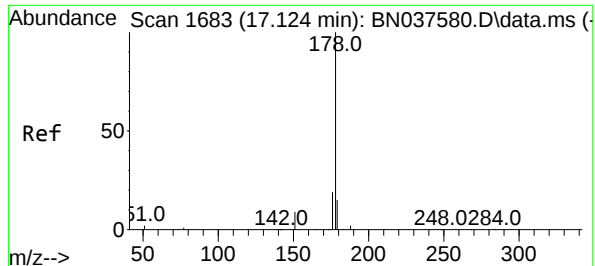
Tgt Ion	Ratio	Lower	Upper
200	100		
173	32.6	31.0	46.4
215	45.7	39.4	59.0



#24
Pentachlorophenol
Concen: 1.775 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.6	74.4
268	63.5	49.2	73.8

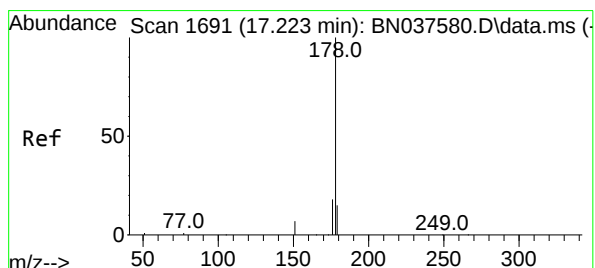
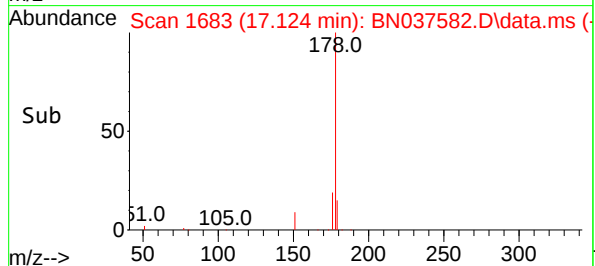
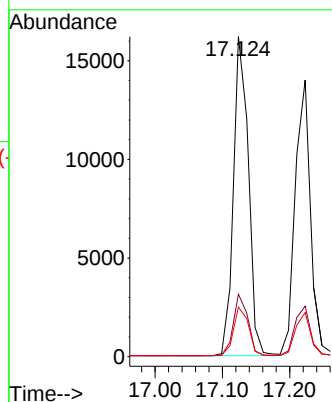
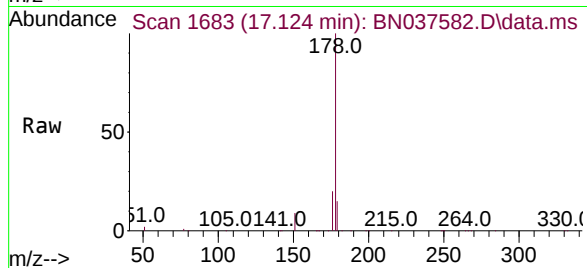




#25
Phenanthrene
Concen: 1.685 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

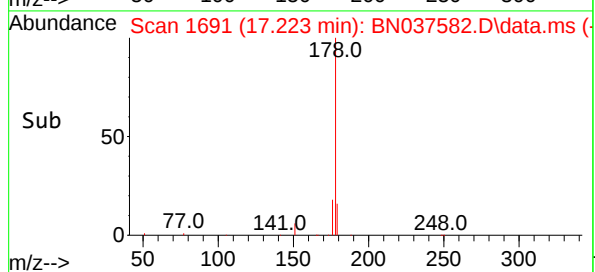
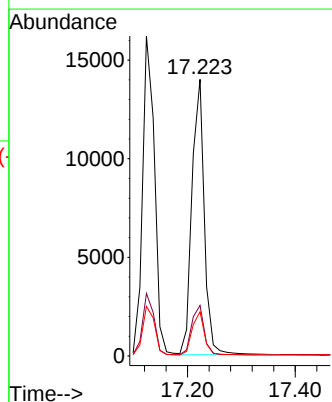
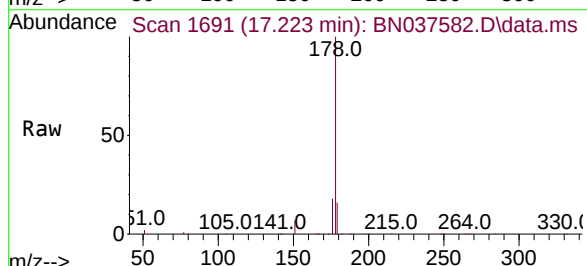
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

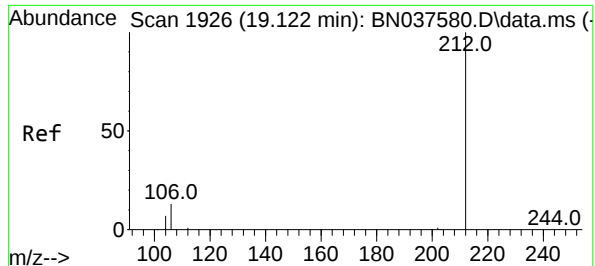
Tgt Ion:178 Resp: 24938
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5



#26
Anthracene
Concen: 1.701 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:178 Resp: 22287
Ion Ratio Lower Upper
178 100
176 18.3 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.597 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

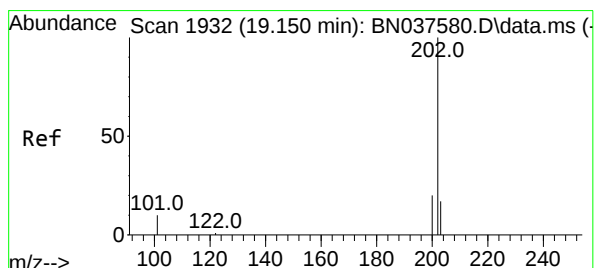
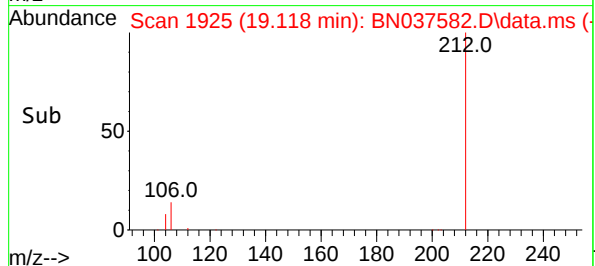
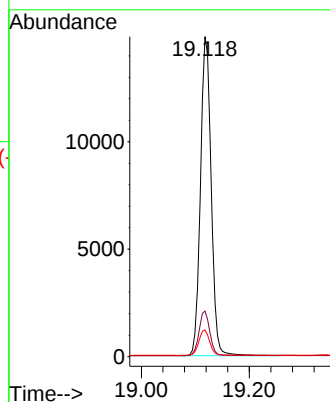
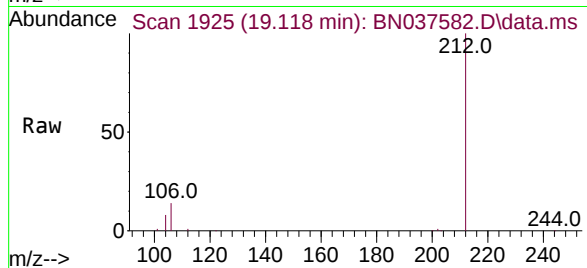
Tgt Ion:212 Resp: 20450

Ion Ratio Lower Upper

212 100

106 14.0 11.5 17.3

104 8.0 6.6 9.8



#28

Fluoranthene

Concen: 1.721 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

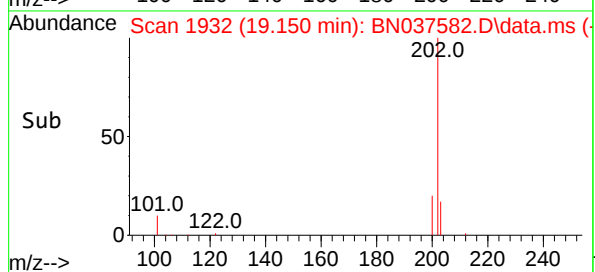
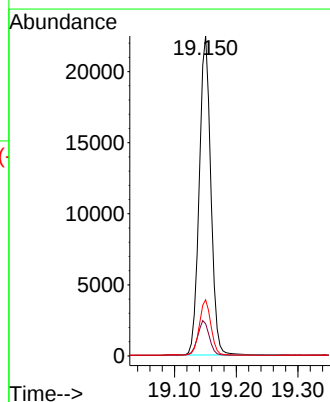
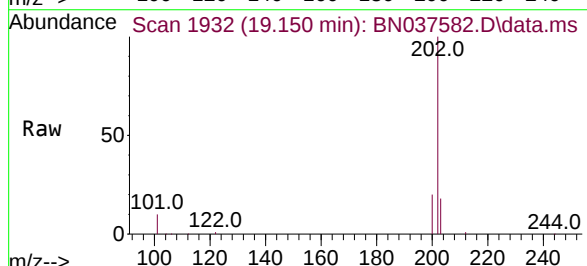
Tgt Ion:202 Resp: 29263

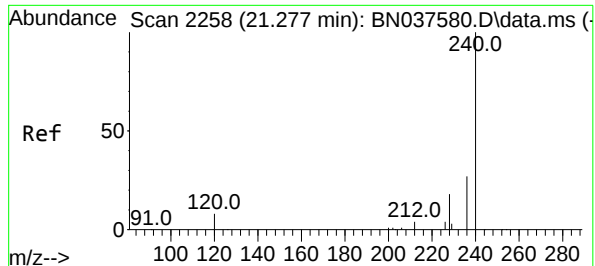
Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

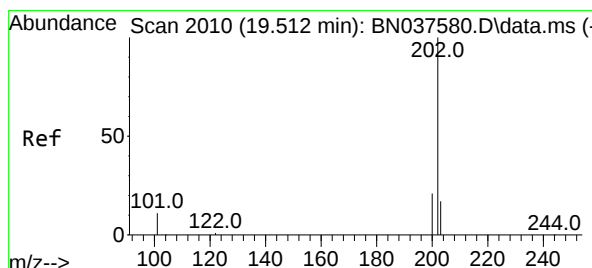
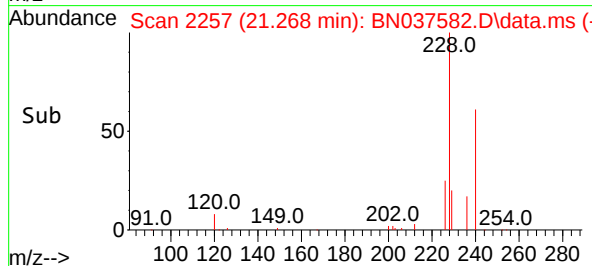
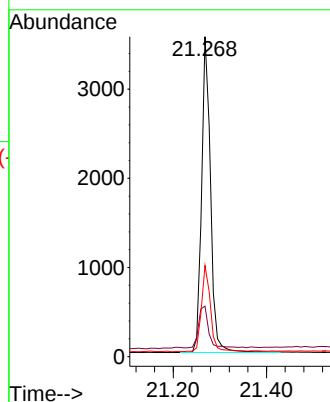
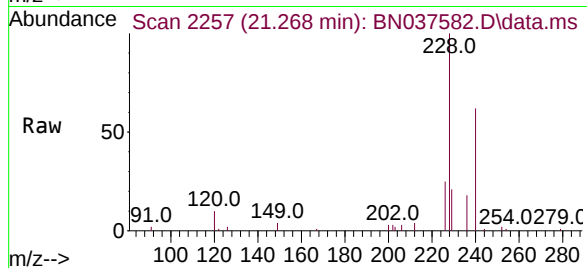
Tgt Ion:240 Resp: 4728

Ion Ratio Lower Upper

240 100

120 15.8 8.9 13.3#

236 28.5 22.6 33.8



#30

Pyrene

Concen: 1.607 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

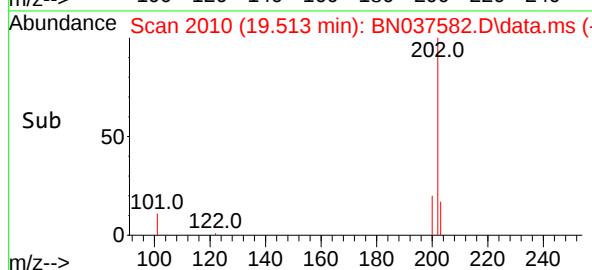
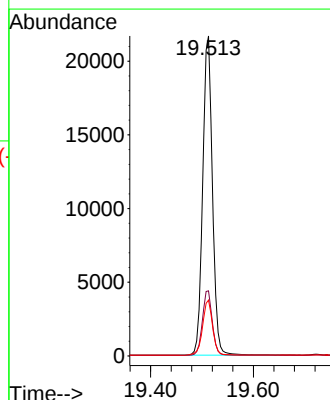
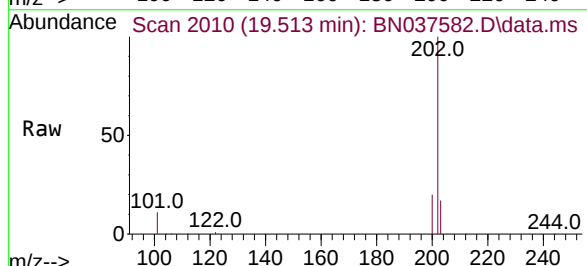
Tgt Ion:202 Resp: 28406

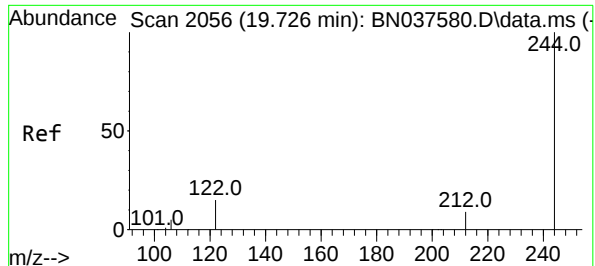
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 17.6 14.3 21.5

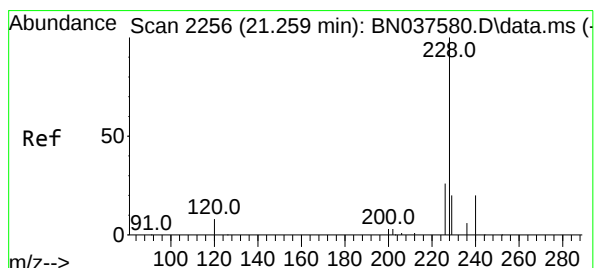
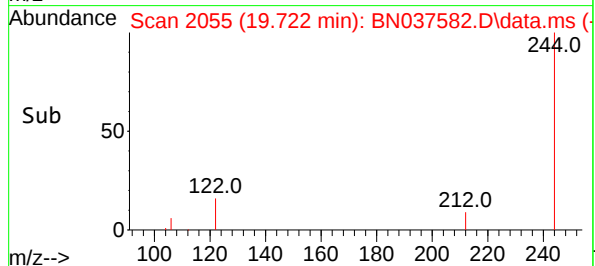
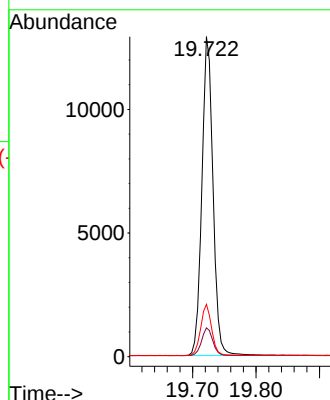
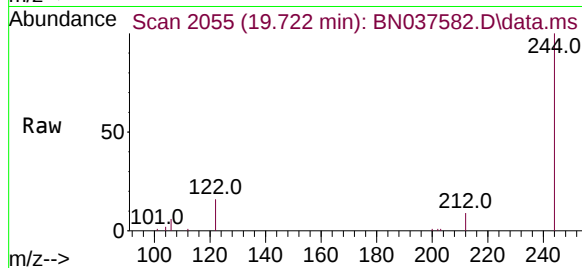




#31
Terphenyl-d14
Concen: 1.620 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.004 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

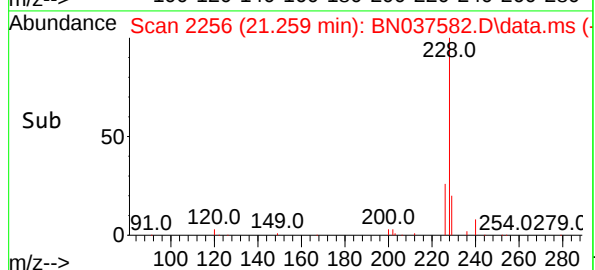
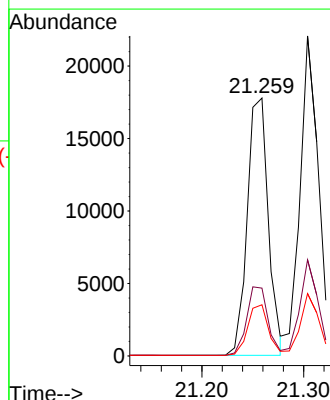
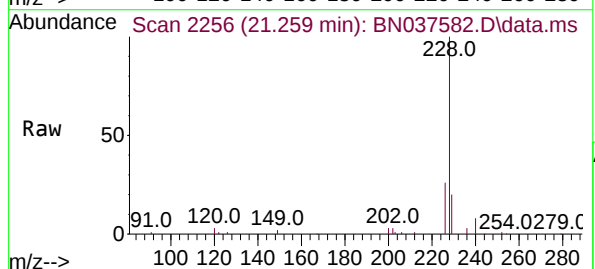
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

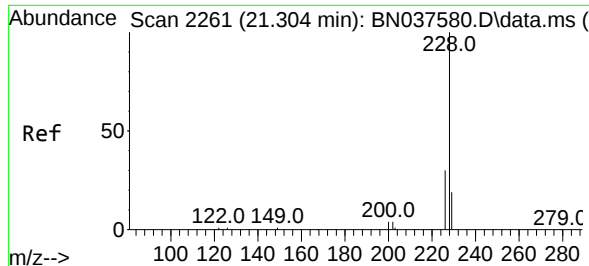
Tgt Ion:244 Resp: 15761
Ion Ratio Lower Upper
244 100
212 9.0 8.2 12.2
122 16.3 13.2 19.8



#32
Benzo(a)anthracene
Concen: 1.618 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:228 Resp: 25547
Ion Ratio Lower Upper
228 100
226 26.3 21.5 32.3
229 19.9 16.5 24.7





#33

Chrysene

Concen: 1.624 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

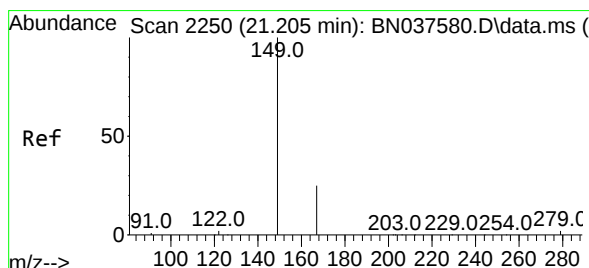
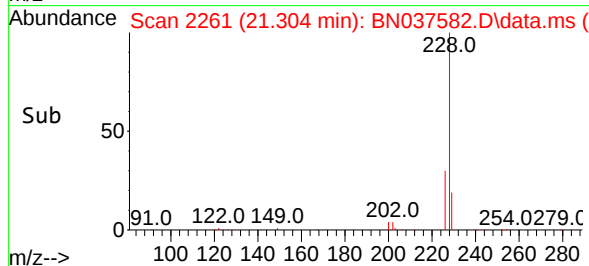
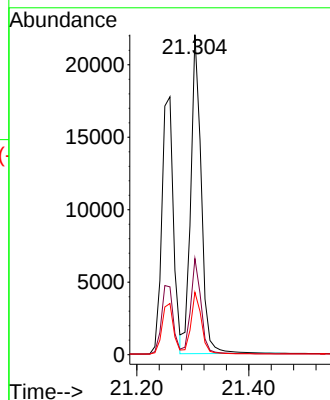
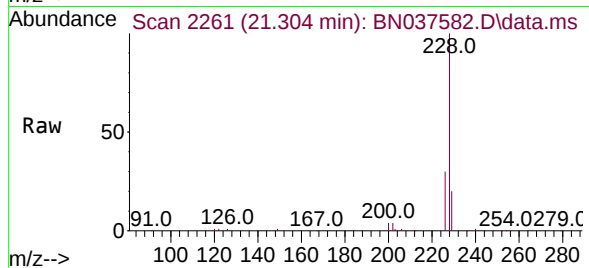
Tgt Ion:228 Resp: 28577

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

229 19.5 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.514 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

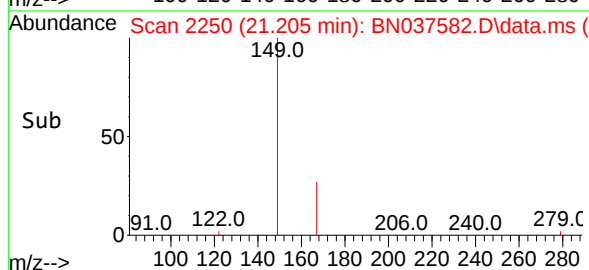
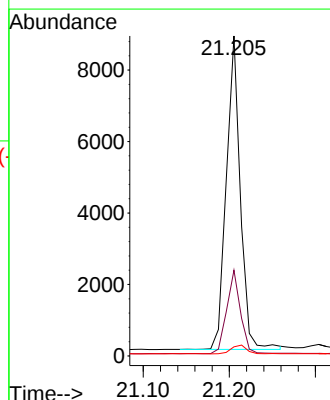
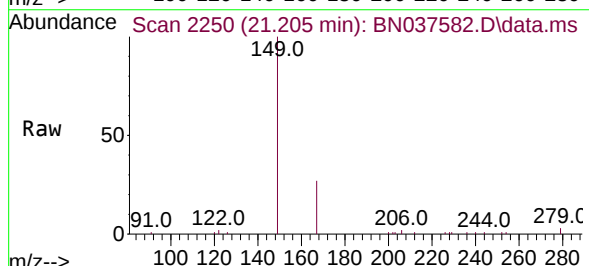
Tgt Ion:149 Resp: 9868

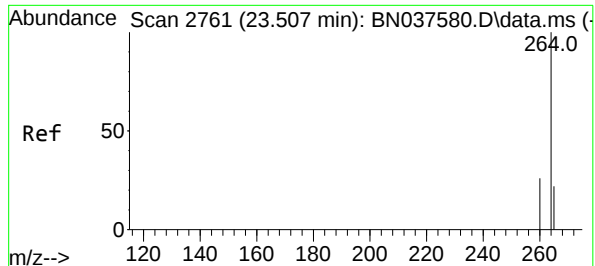
Ion Ratio Lower Upper

149 100

167 26.1 20.5 30.7

279 3.1 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037582.D

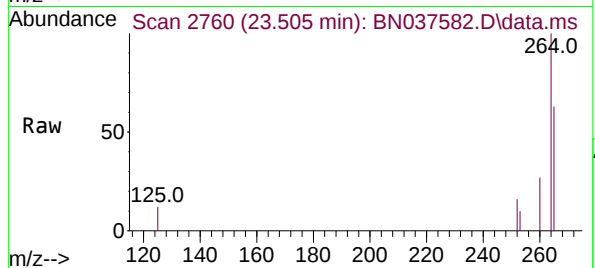
Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



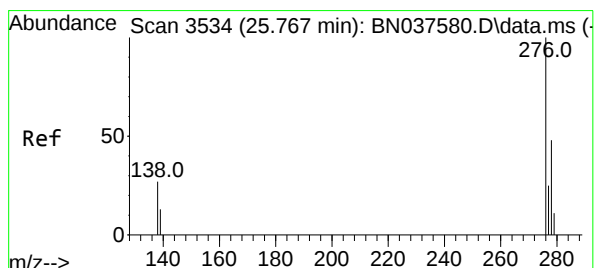
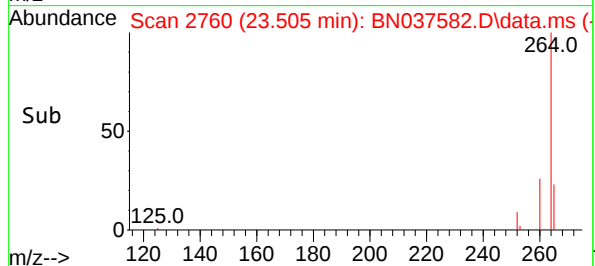
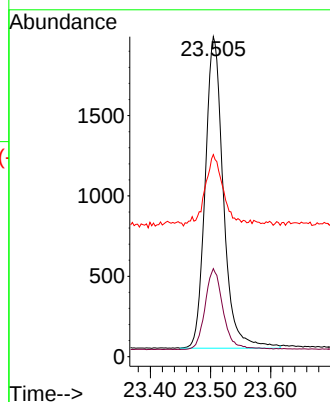
Tgt Ion:264 Resp: 4054

Ion Ratio Lower Upper

264 100

260 27.5 21.6 32.4

265 63.1 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.724 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

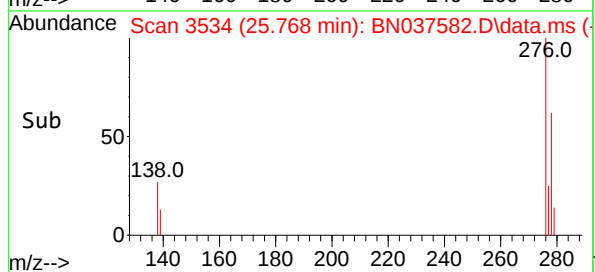
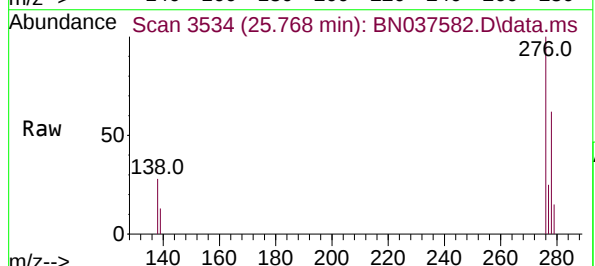
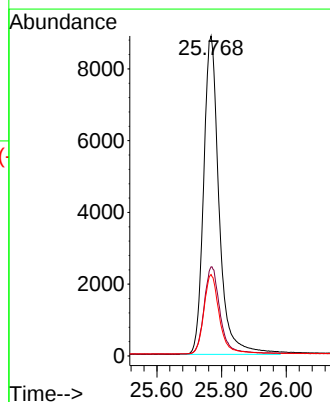
Tgt Ion:276 Resp: 29448

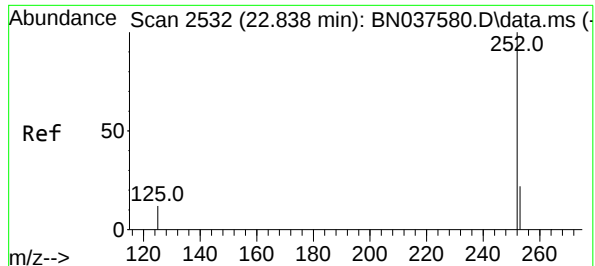
Ion Ratio Lower Upper

276 100

138 28.3 23.3 34.9

277 25.0 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.705 ng

RT: 22.835 min Scan# 2532

Delta R.T. -0.003 min

Lab File: BN037582.D

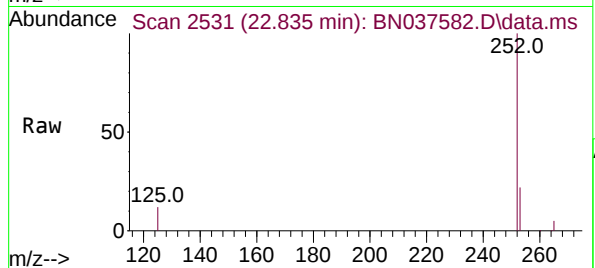
Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



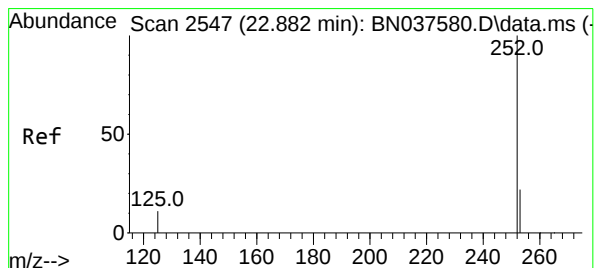
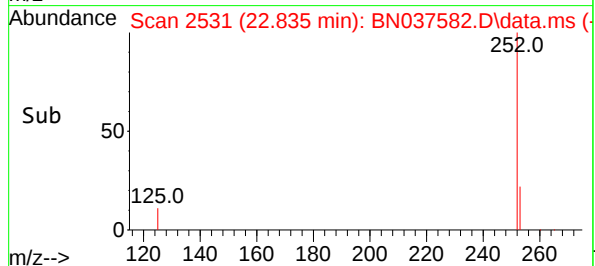
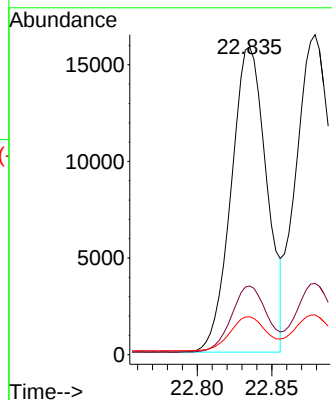
Tgt Ion:252 Resp: 26189

Ion Ratio Lower Upper

252 100

253 22.3 20.0 30.0

125 12.3 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 1.703 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

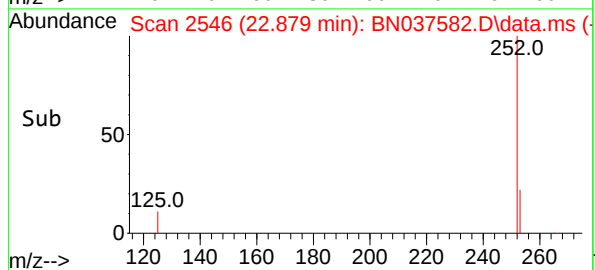
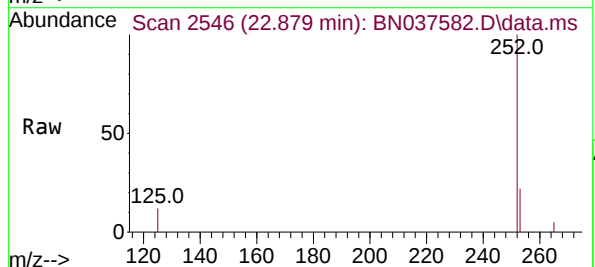
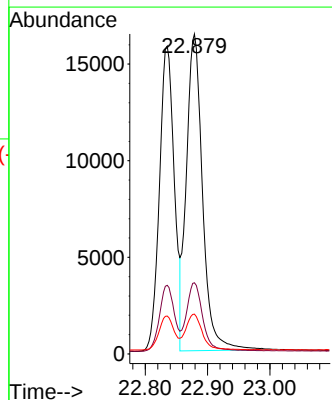
Tgt Ion:252 Resp: 29528

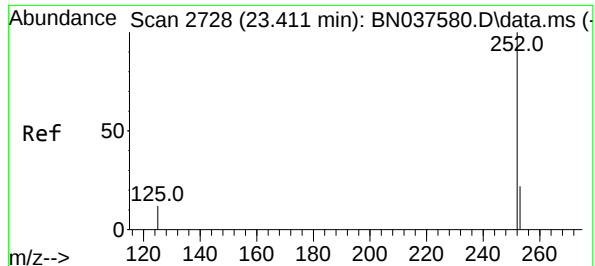
Ion Ratio Lower Upper

252 100

253 22.2 19.9 29.9

125 12.5 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 1.683 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

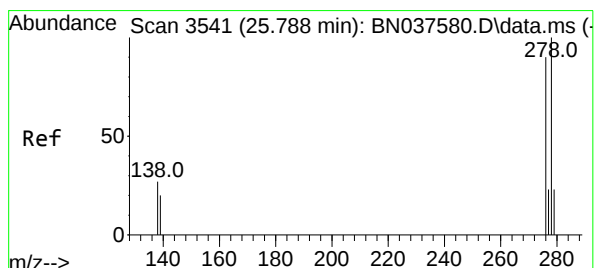
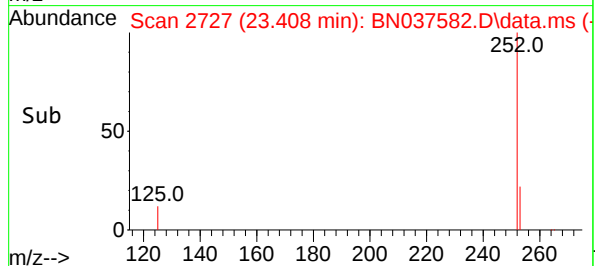
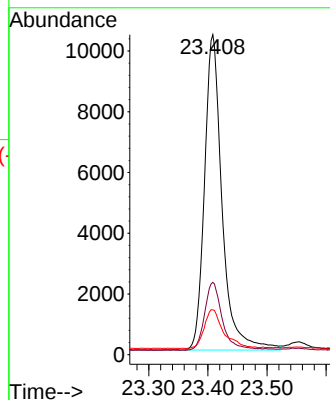
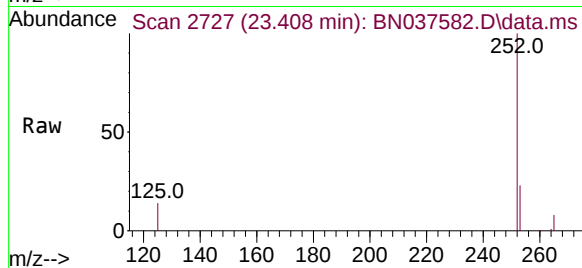
Tgt Ion:252 Resp: 21441

Ion Ratio Lower Upper

252 100

253 22.6 21.6 32.4

125 14.0 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.761 ng

RT: 25.779 min Scan# 3538

Delta R.T. -0.009 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

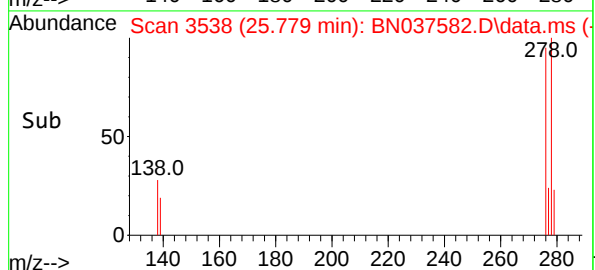
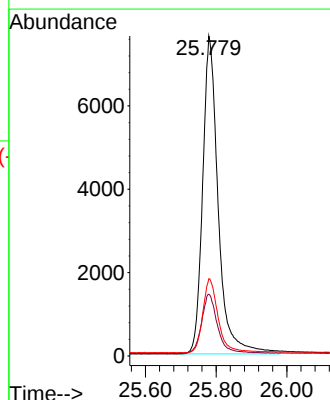
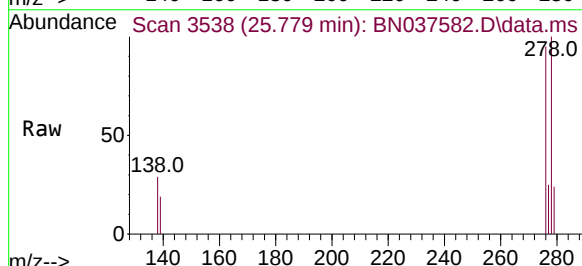
Tgt Ion:278 Resp: 23334

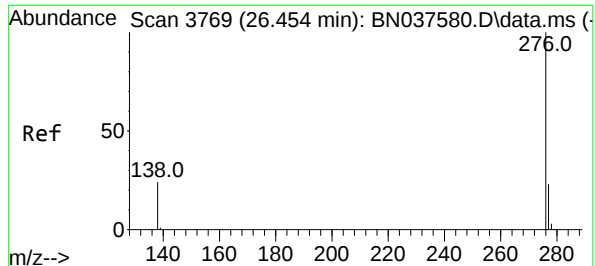
Ion Ratio Lower Upper

278 100

139 19.3 18.3 27.5

279 24.2 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 1.703 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037582.D

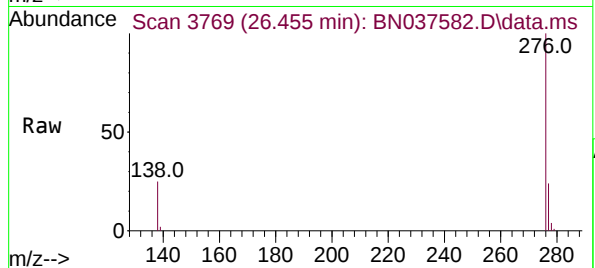
Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



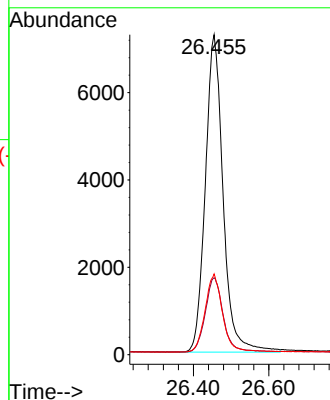
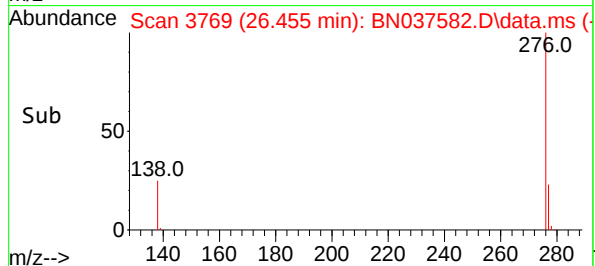
Tgt Ion:276 Resp: 23781

Ion Ratio Lower Upper

276 100

277 24.1 21.0 31.4

138 25.2 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037583.D
 Acq On : 12 Aug 2025 19:29
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Aug 13 04:49:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

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

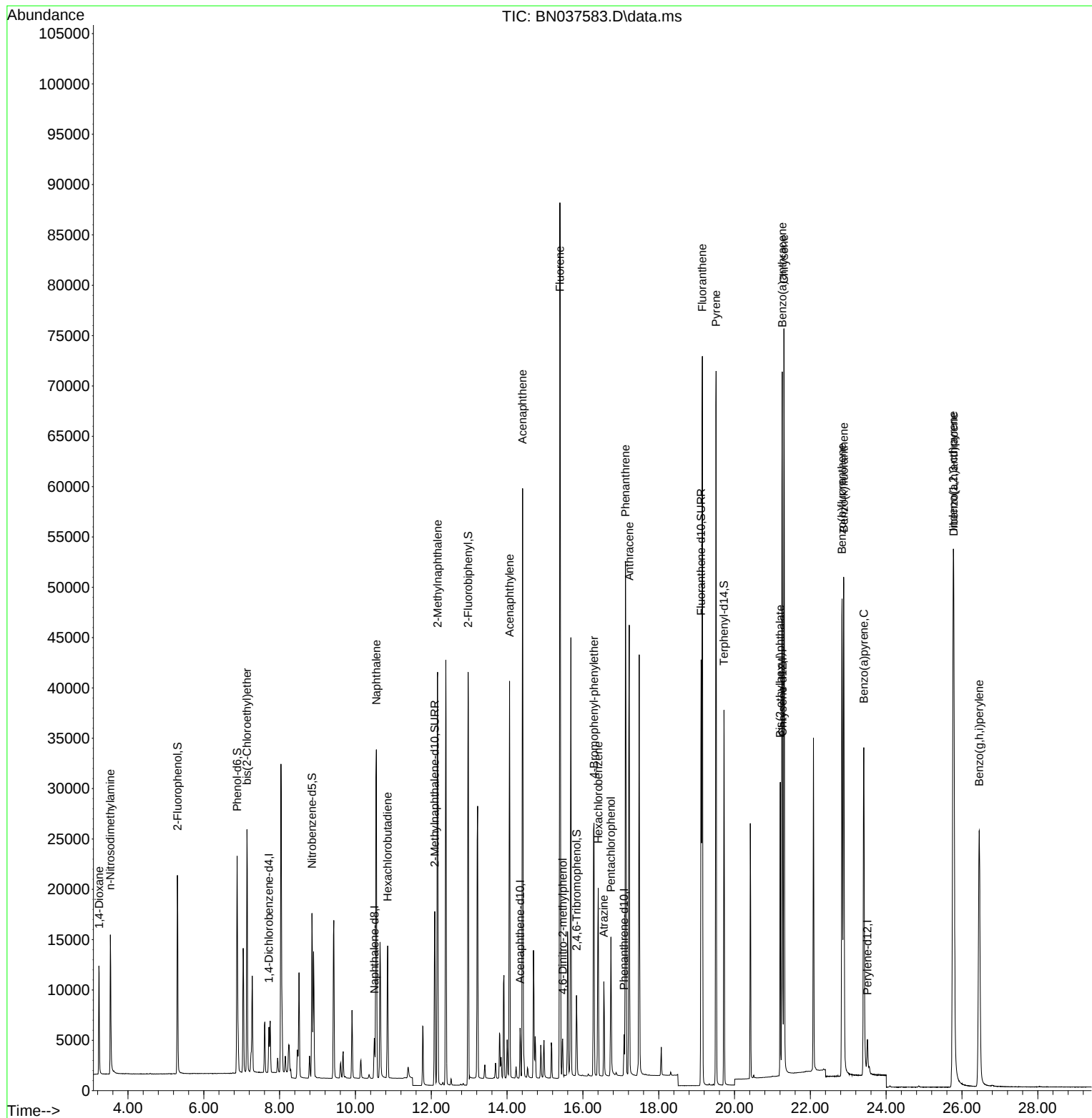
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2075	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5019	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2699	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5200	0.400	ng	0.00
29) Chrysene-d12	21.268	240	5116	0.400	ng	# 0.00
35) Perylene-d12	23.508	264	4411	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	15044	3.198	ng	0.00
5) Phenol-d6	6.879	99	18546	3.276	ng	0.00
8) Nitrobenzene-d5	8.854	82	12097	3.422	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	23211	3.402	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	4382	3.710	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	51634	3.308	ng	0.00
27) Fluoranthene-d10	19.118	212	46178	3.376	ng	0.00
31) Terphenyl-d14	19.722	244	34892	3.315	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	6233	3.140	ng	98
3) n-Nitrosodimethylamine	3.536	42	8352	3.292	ng	97
6) bis(2-Chloroethyl)ether	7.139	93	16734	3.280	ng	98
9) Naphthalene	10.552	128	43991	3.292	ng	97
10) Hexachlorobutadiene	10.851	225	10602	3.248	ng	# 99
12) 2-Methylnaphthalene	12.167	142	29337	3.501	ng	98
16) Acenaphthylene	14.067	152	40122	3.316	ng	99
17) Acenaphthene	14.409	154	27774	3.375	ng	94
18) Fluorene	15.393	166	36565	3.396	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	2906	3.257	ng	# 49
21) 4-Bromophenyl-phenylether	16.292	248	11254	3.444	ng	# 92
22) Hexachlorobenzene	16.404	284	14747	3.183	ng	100
23) Atrazine	16.553	200	7330	3.967	ng	94
24) Pentachlorophenol	16.739	266	6325	3.887	ng	97
25) Phenanthrene	17.124	178	52784	3.339	ng	100
26) Anthracene	17.223	178	49333	3.525	ng	100
28) Fluoranthene	19.150	202	63765	3.511	ng	100
30) Pyrene	19.513	202	62227	3.254	ng	100
32) Benzo(a)anthracene	21.259	228	59663	3.491	ng	98
33) Chrysene	21.304	228	60925	3.199	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	24265	3.440	ng	99
36) Indeno(1,2,3-cd)pyrene	25.768	276	66459	3.576	ng	99
37) Benzo(b)fluoranthene	22.835	252	59086	3.535	ng	# 92
38) Benzo(k)fluoranthene	22.879	252	63422	3.363	ng	# 90
39) Benzo(a)pyrene	23.411	252	48767	3.518	ng	# 87
40) Dibenzo(a,h)anthracene	25.782	278	53486	3.709	ng	92
41) Benzo(g,h,i)perylene	26.455	276	54068	3.558	ng	95

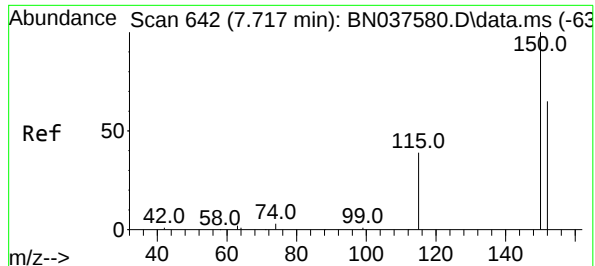
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037583.D
Acq On : 12 Aug 2025 19:29
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

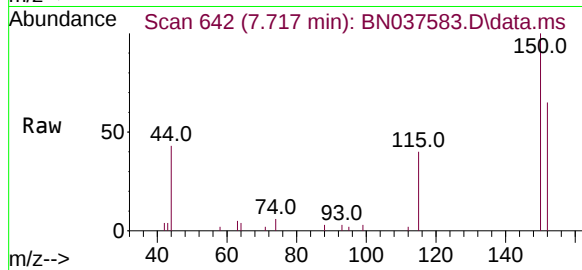
Quant Time: Aug 13 04:49:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration



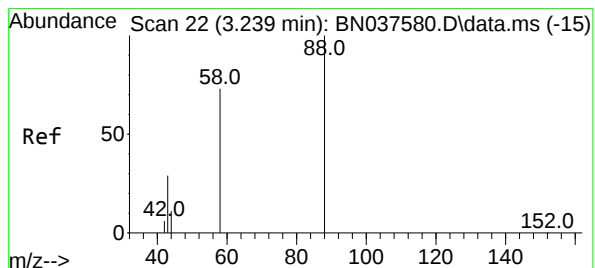
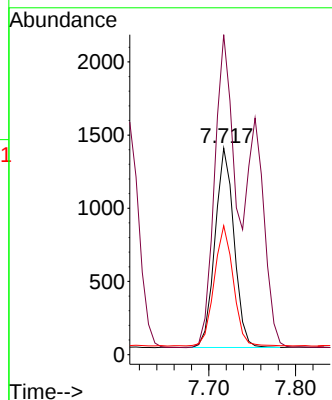
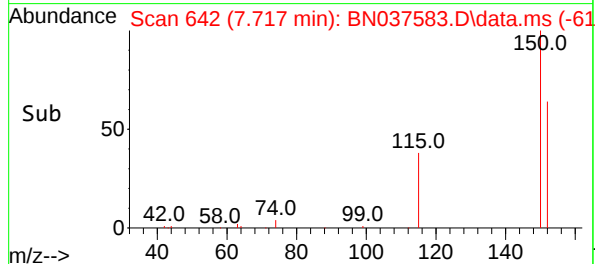


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

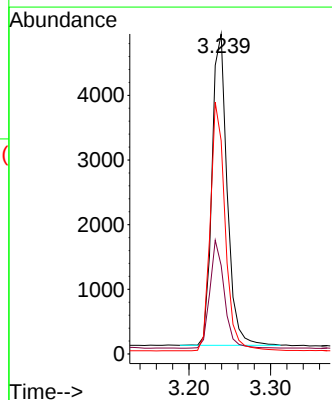
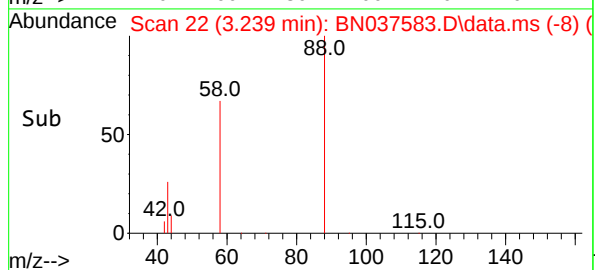
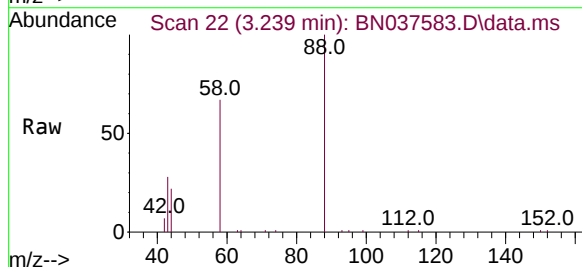


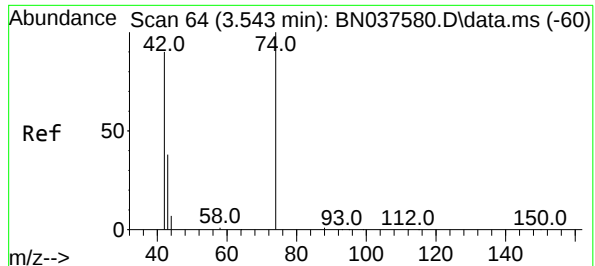
Tgt Ion: 152 Resp: 2075
Ion Ratio Lower Upper
152 100
150 154.9 122.2 183.4
115 62.4 49.8 74.6



#2
1,4-Dioxane
Concen: 3.140 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion: 88 Resp: 6233
Ion Ratio Lower Upper
88 100
43 32.9 25.8 38.6
58 78.1 61.2 91.8

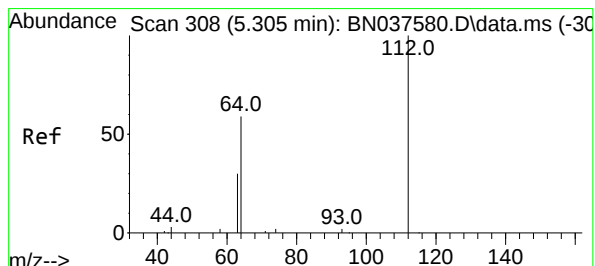
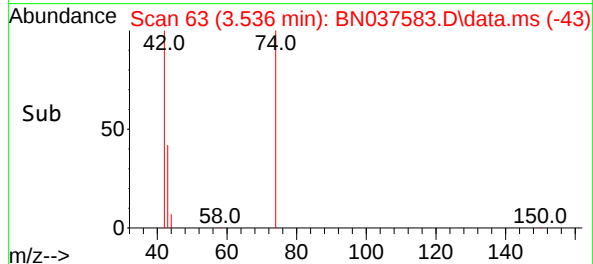
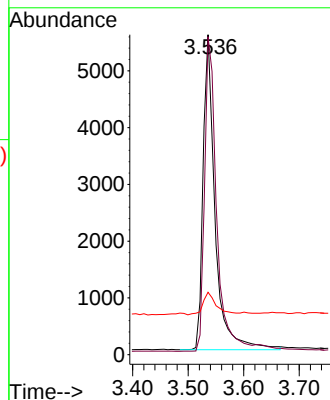
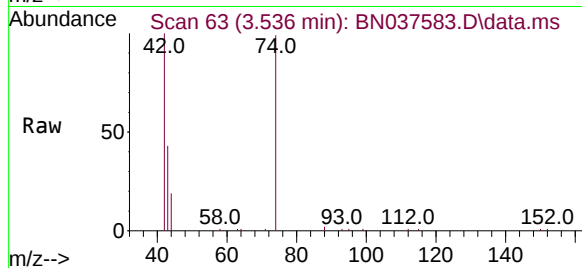




#3
n-Nitrosodimethylamine
Concen: 3.292 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

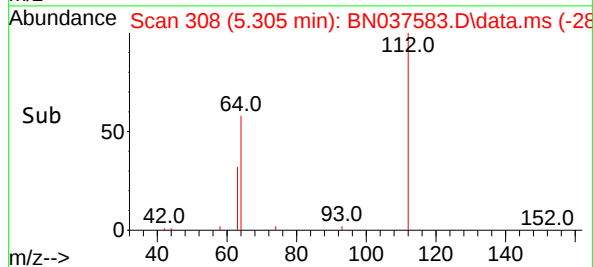
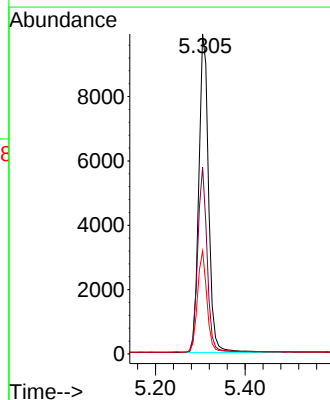
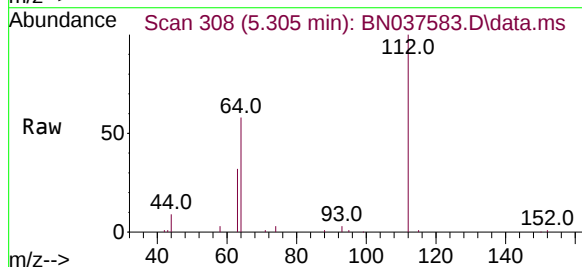
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

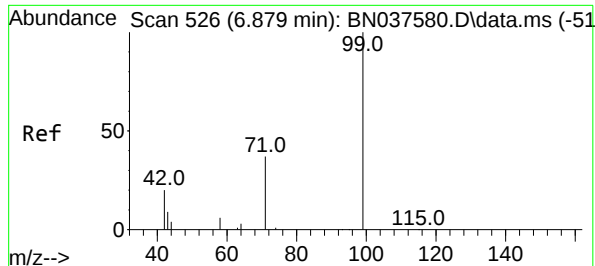
Tgt Ion: 42 Resp: 8352
Ion Ratio Lower Upper
42 100
74 99.7 82.0 123.0
44 8.0 7.9 11.9



#4
2-Fluorophenol
Concen: 3.198 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion: 112 Resp: 15044
Ion Ratio Lower Upper
112 100
64 56.5 44.9 67.3
63 30.7 23.4 35.2





#5

Phenol-d6

Concen: 3.276 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

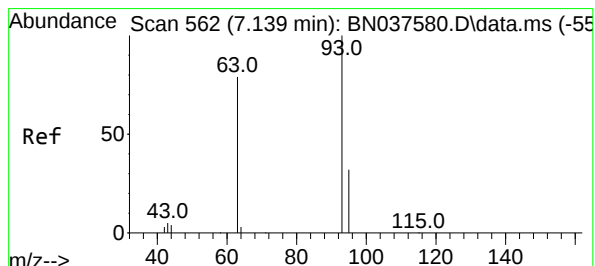
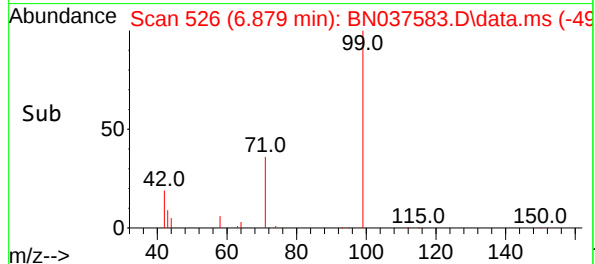
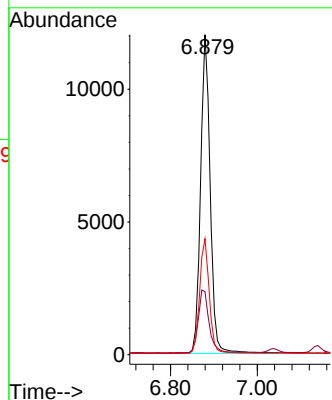
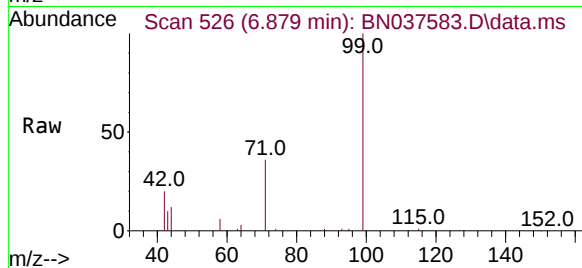
Tgt Ion: 99 Resp: 18546

Ion Ratio Lower Upper

99 100

42 22.2 18.5 27.7

71 36.1 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 3.280 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

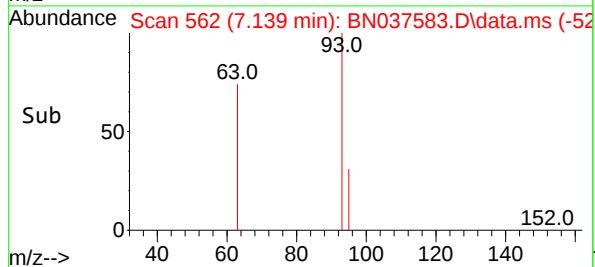
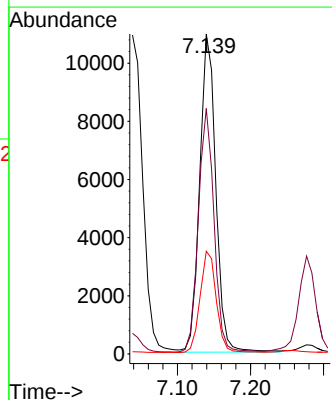
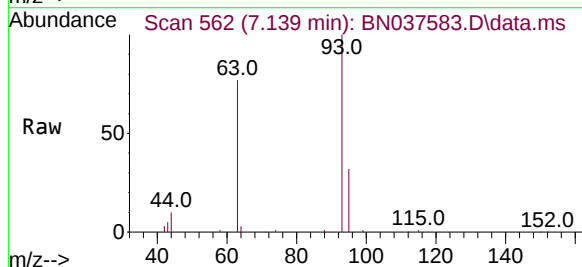
Tgt Ion: 93 Resp: 16734

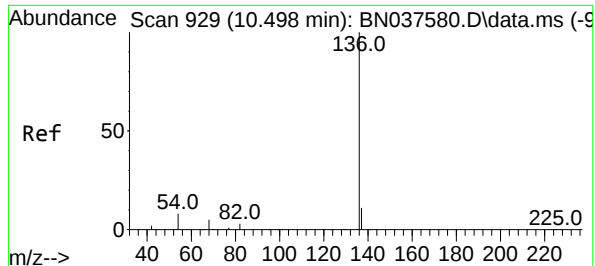
Ion Ratio Lower Upper

93 100

63 74.4 58.0 87.0

95 32.0 24.9 37.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.498 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:136 Resp: 5019

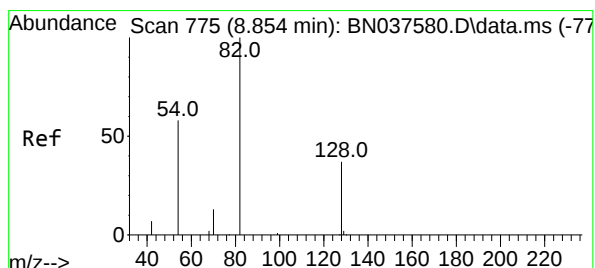
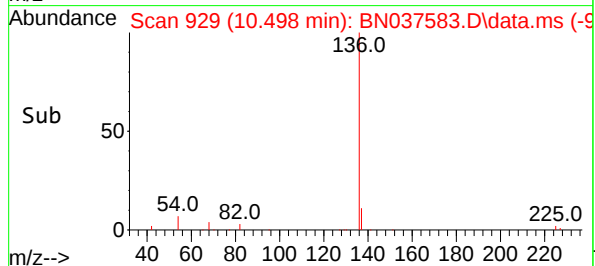
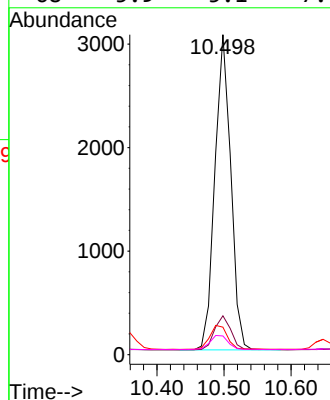
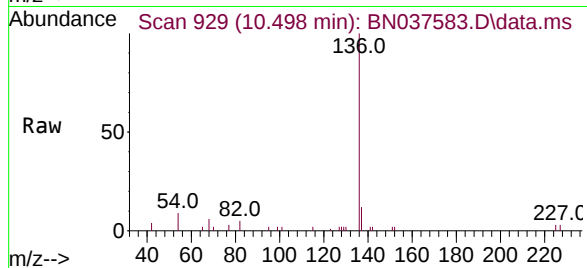
Ion Ratio Lower Upper

136 100

137 12.1 9.5 14.3

54 8.6 7.3 10.9

68 5.9 5.1 7.7



#8

Nitrobenzene-d5

Concen: 3.422 ng

RT: 8.854 min Scan# 775

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

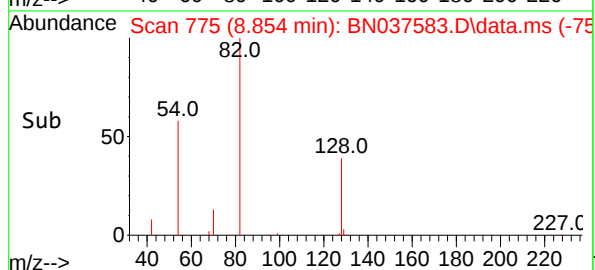
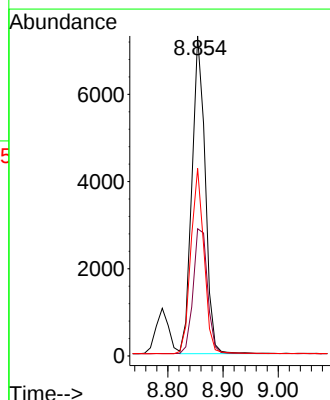
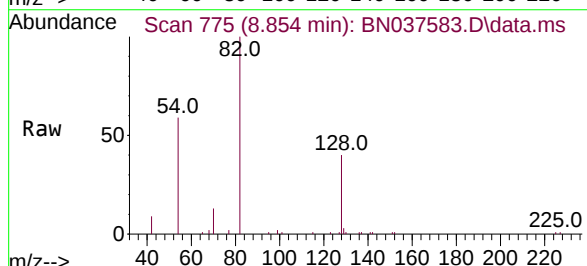
Tgt Ion: 82 Resp: 12097

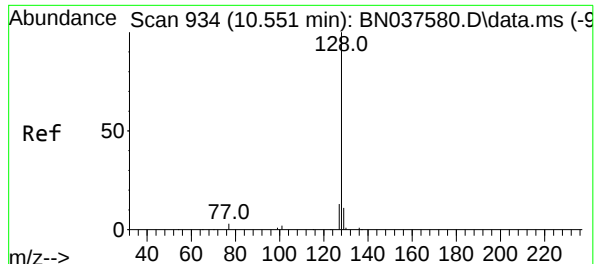
Ion Ratio Lower Upper

82 100

128 39.7 32.6 48.8

54 58.6 48.9 73.3

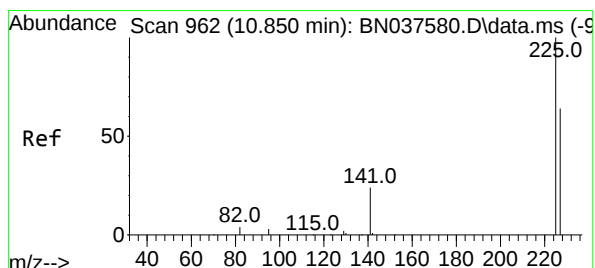
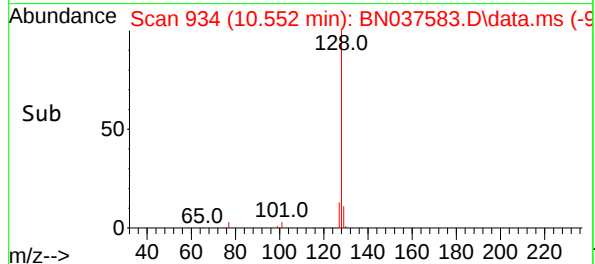
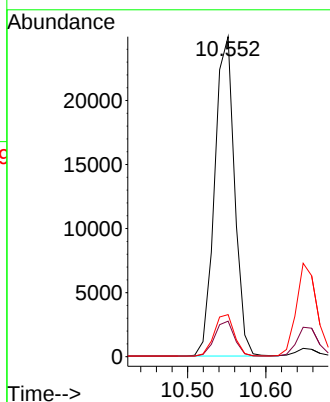
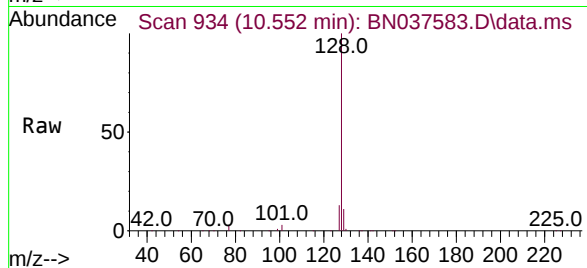




#9
Naphthalene
Concen: 3.292 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

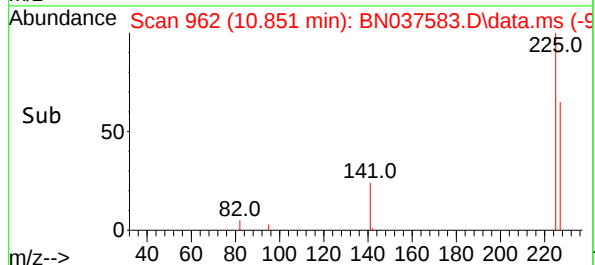
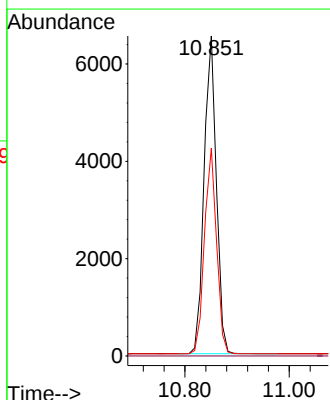
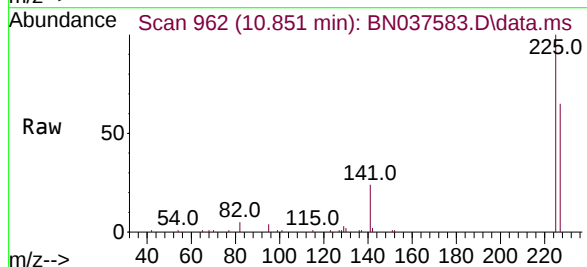
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

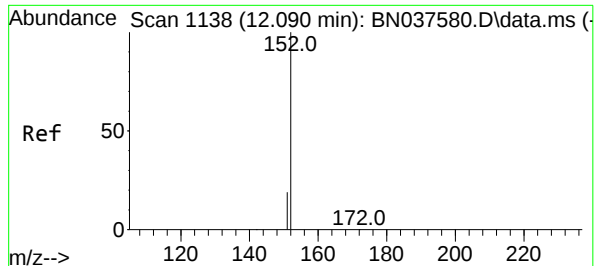
Tgt Ion:128 Resp: 43991
Ion Ratio Lower Upper
128 100
129 11.1 9.8 14.6
127 13.2 11.5 17.3



#10
Hexachlorobutadiene
Concen: 3.248 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:225 Resp: 10602
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.8 76.2

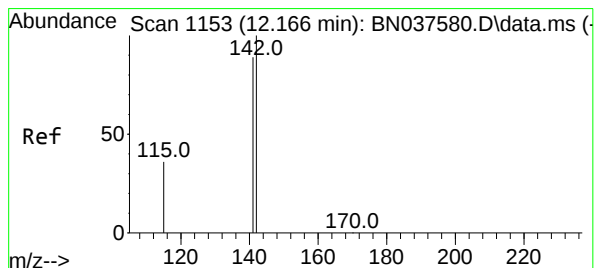
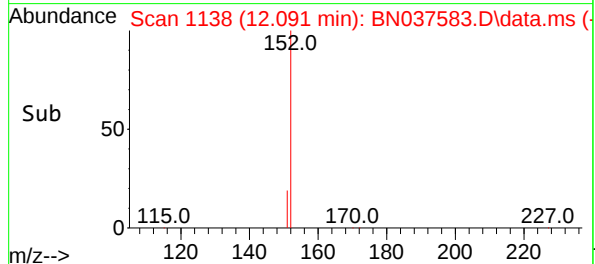
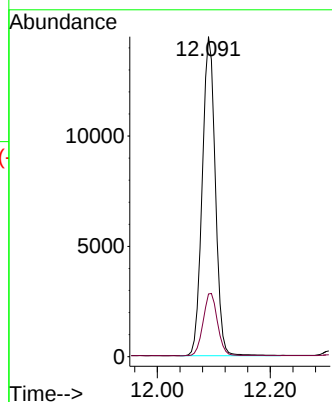
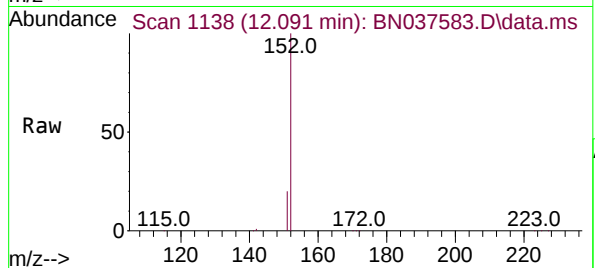




#11
2-Methylnaphthalene-d10
Concen: 3.402 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

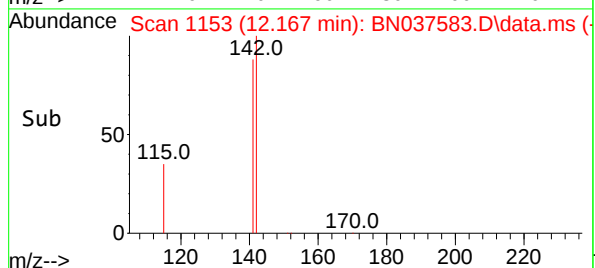
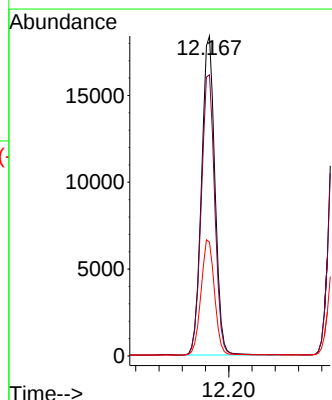
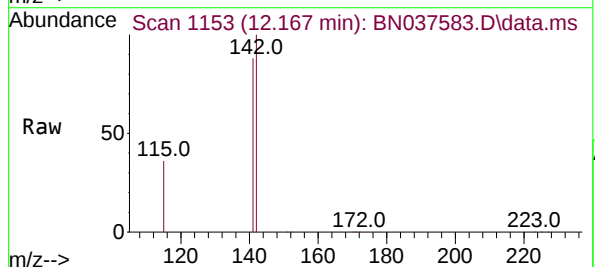
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

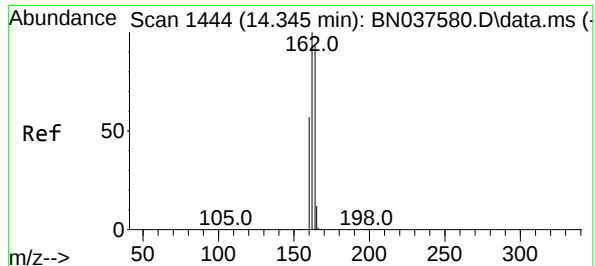
Tgt Ion:152 Resp: 23211
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



#12
2-Methylnaphthalene
Concen: 3.501 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:142 Resp: 29337
Ion Ratio Lower Upper
142 100
141 87.9 71.4 107.0
115 35.5 30.2 45.4

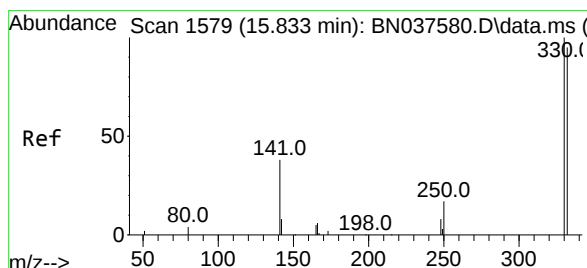
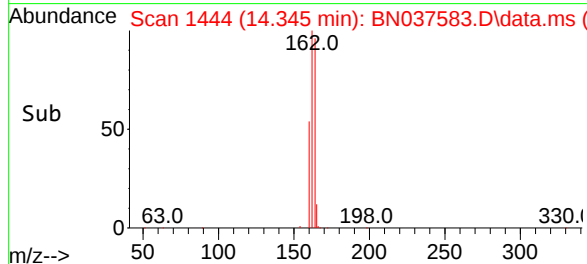
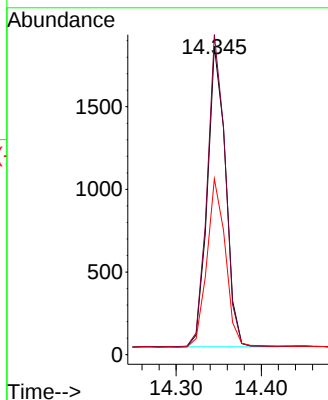
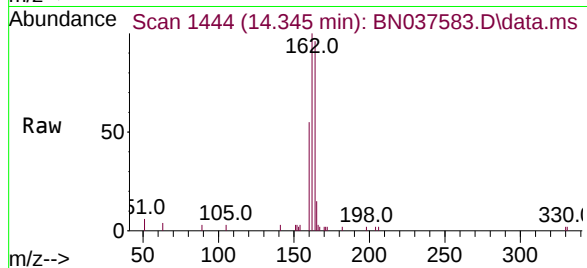




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

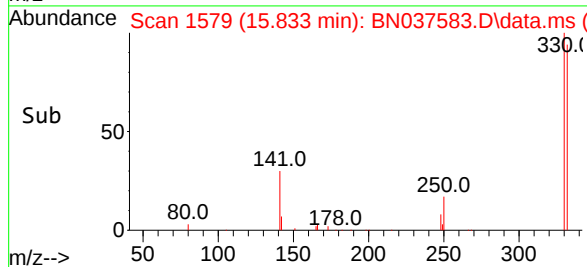
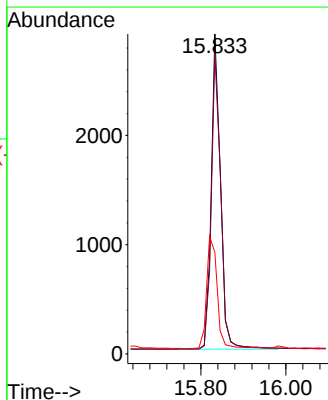
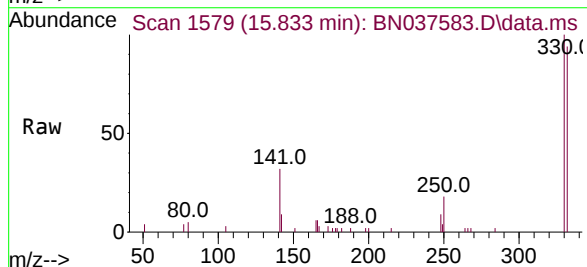
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

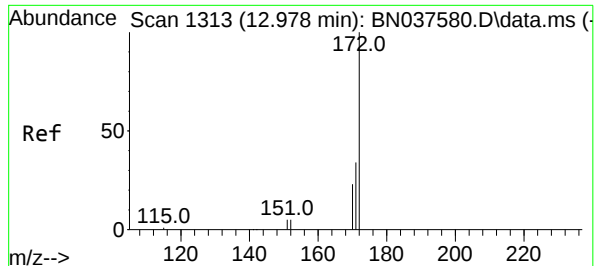
Tgt Ion:164 Resp: 2699
Ion Ratio Lower Upper
164 100
162 103.8 85.5 128.3
160 57.0 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 3.710 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:330 Resp: 4382
Ion Ratio Lower Upper
330 100
332 95.1 77.4 116.0
141 40.3 30.9 46.3

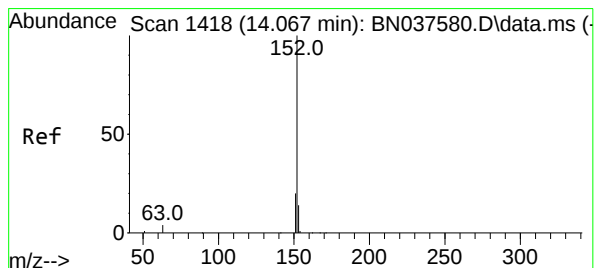
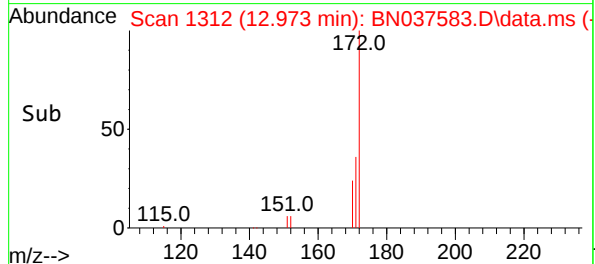
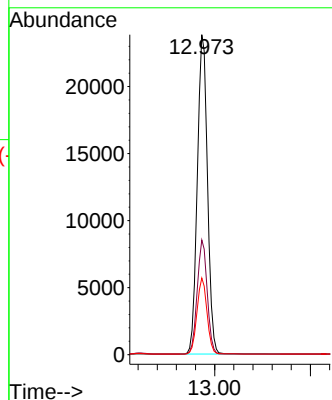
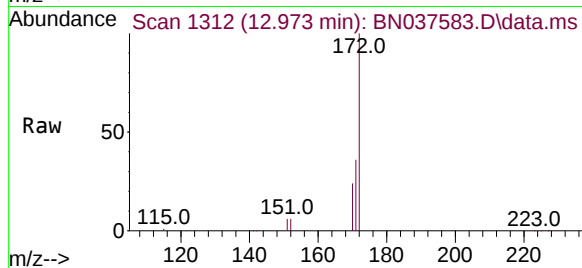




#15
2-Fluorobiphenyl
Concen: 3.308 ng
RT: 12.973 min Scan# 1312
Delta R.T. -0.005 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

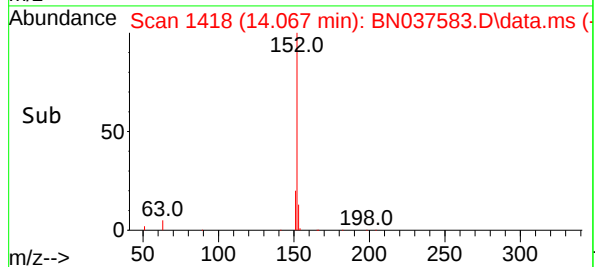
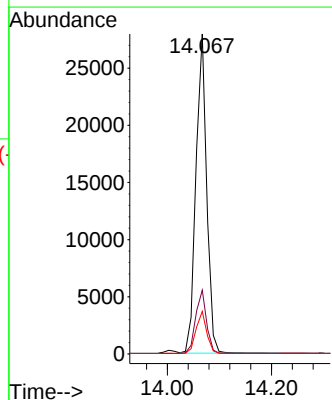
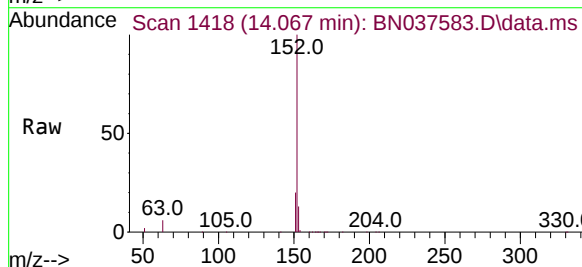
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

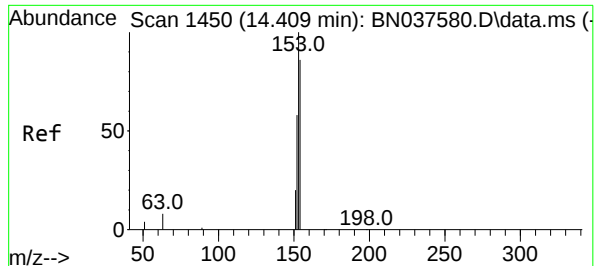
Tgt Ion:172 Resp: 51634
Ion Ratio Lower Upper
172 100
171 35.9 28.2 42.4
170 24.0 19.2 28.8



#16
Acenaphthylene
Concen: 3.316 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:152 Resp: 40122
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 13.0 10.7 16.1

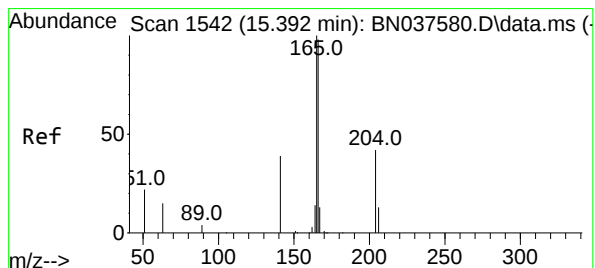
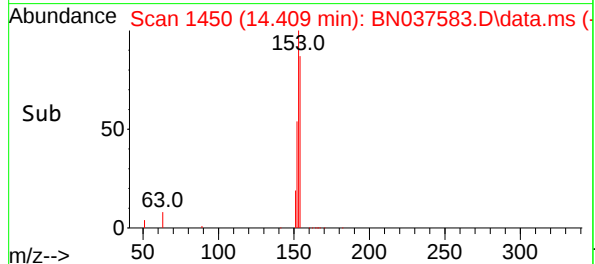
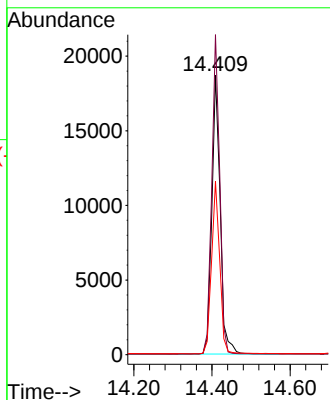
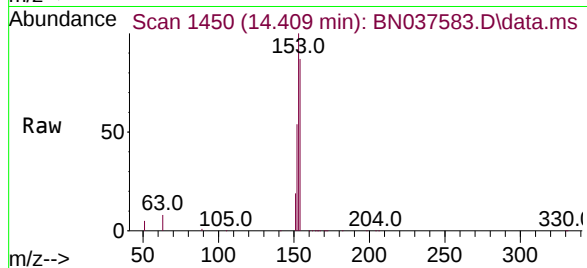




#17
Acenaphthene
Concen: 3.375 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

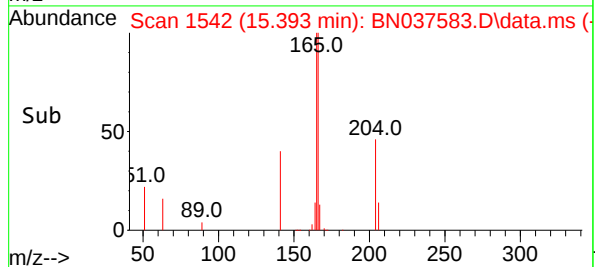
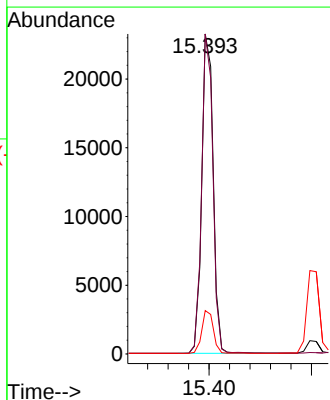
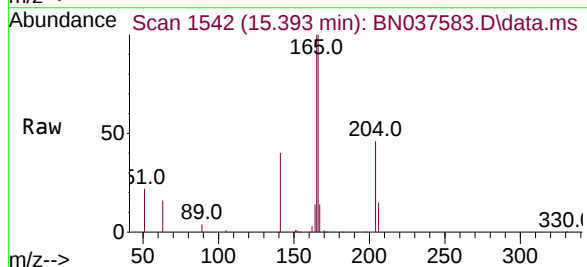
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

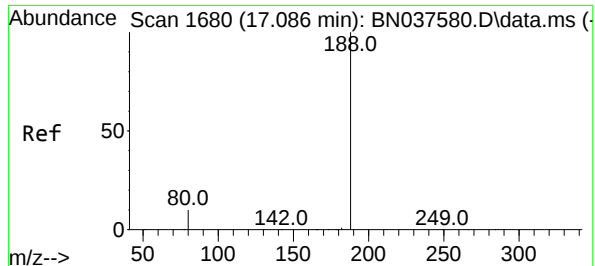
Tgt Ion:154 Resp: 27774
Ion Ratio Lower Upper
154 100
153 109.4 90.6 135.8
152 60.7 54.9 82.3



#18
Fluorene
Concen: 3.396 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:166 Resp: 36565
Ion Ratio Lower Upper
166 100
165 98.5 78.9 118.3
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

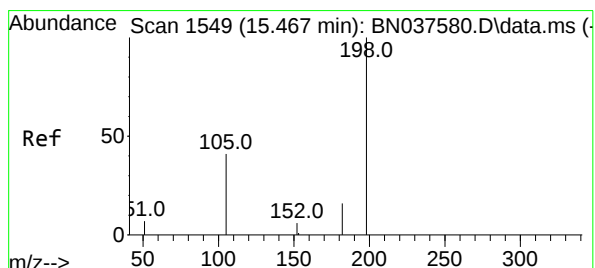
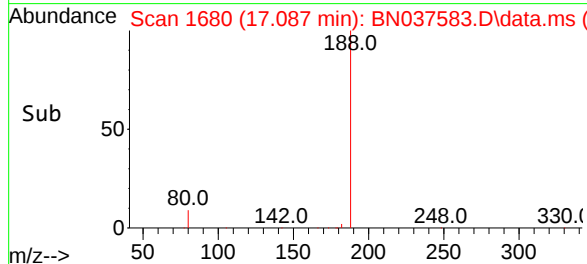
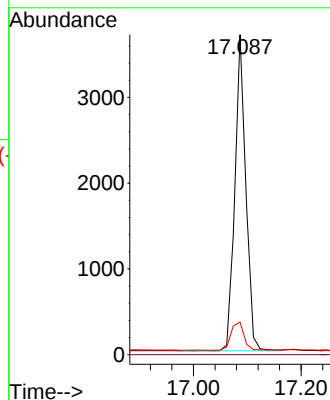
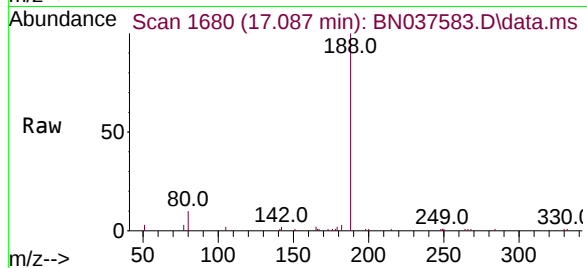
Tgt Ion:188 Resp: 5200

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 3.257 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

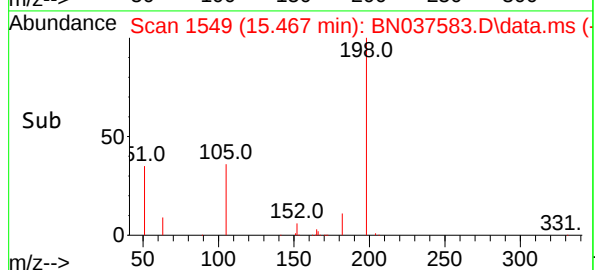
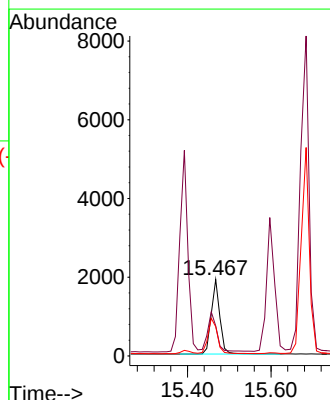
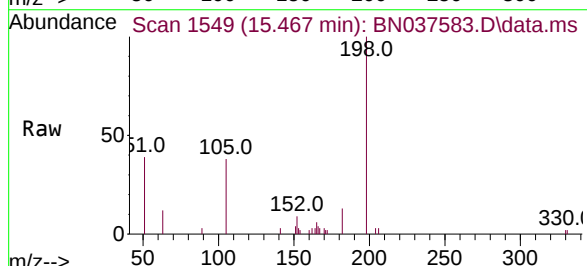
Tgt Ion:198 Resp: 2906

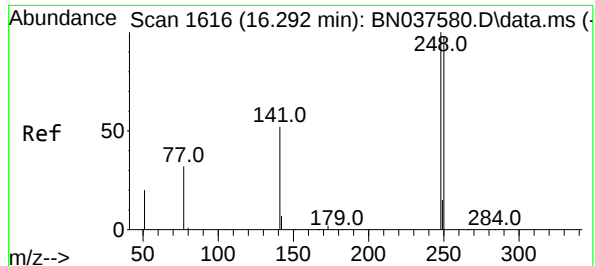
Ion Ratio Lower Upper

198 100

51 39.4 81.0 121.6#

105 38.3 52.5 78.7#





#21

4-Bromophenyl-phenylether

Concen: 3.444 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

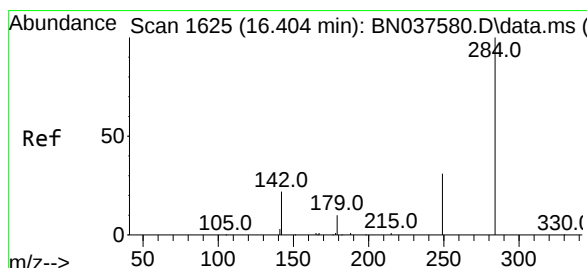
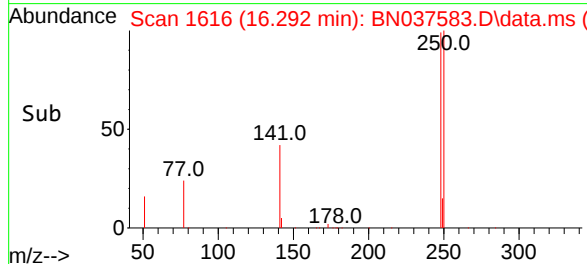
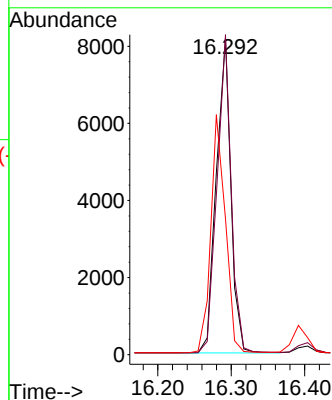
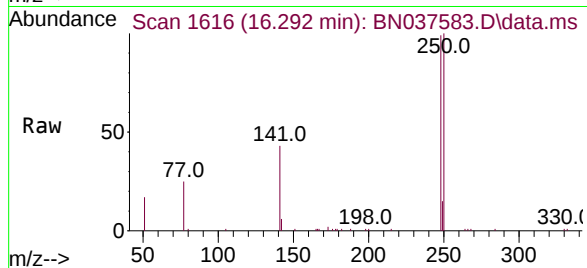
Tgt Ion:248 Resp: 11254

Ion Ratio Lower Upper

248 100

250 101.0 78.6 118.0

141 42.9 43.7 65.5#



#22

Hexachlorobenzene

Concen: 3.183 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

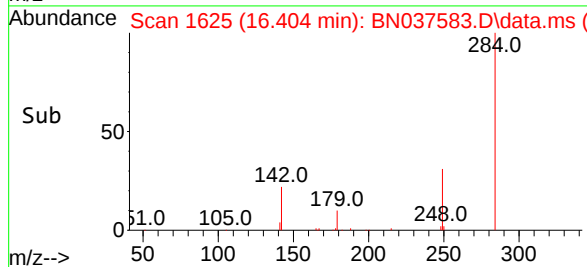
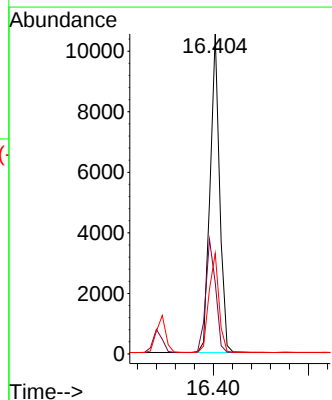
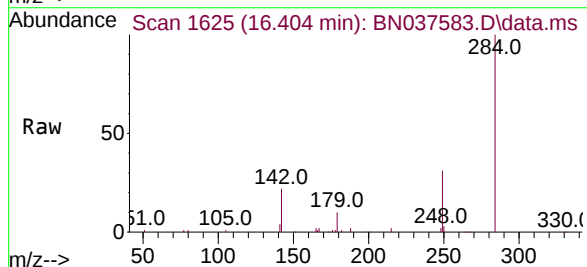
Tgt Ion:284 Resp: 14747

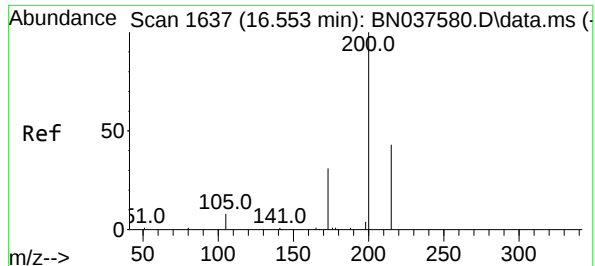
Ion Ratio Lower Upper

284 100

142 37.0 29.8 44.6

249 32.6 26.0 39.0





#23

Atrazine

Concen: 3.967 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

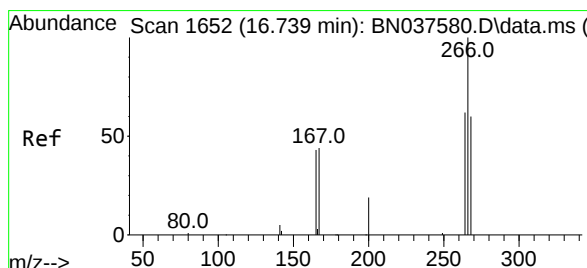
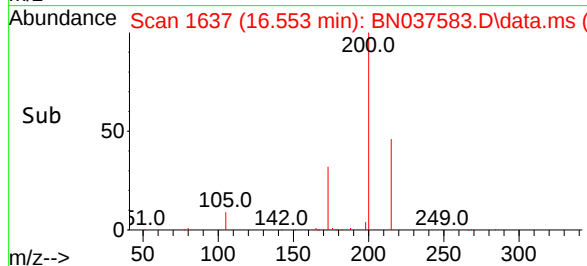
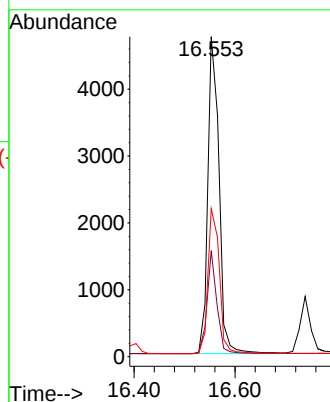
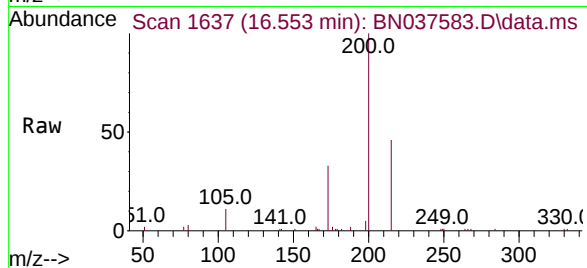
Tgt Ion:200 Resp: 7330

Ion Ratio Lower Upper

200 100

173 33.1 31.0 46.4

215 46.2 39.4 59.0



#24

Pentachlorophenol

Concen: 3.887 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

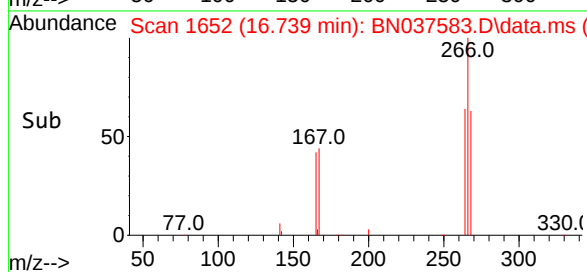
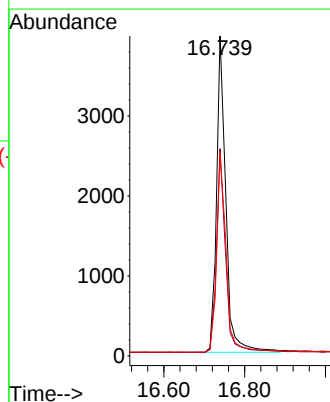
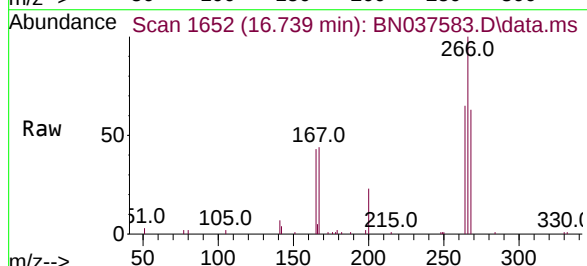
Tgt Ion:266 Resp: 6325

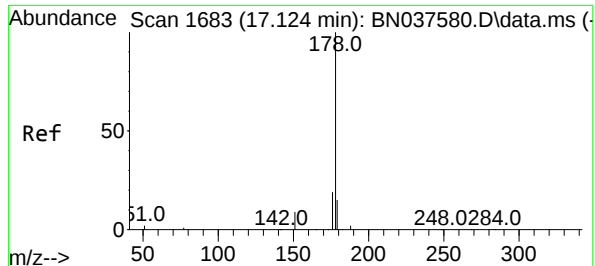
Ion Ratio Lower Upper

266 100

264 63.4 49.6 74.4

268 64.3 49.2 73.8

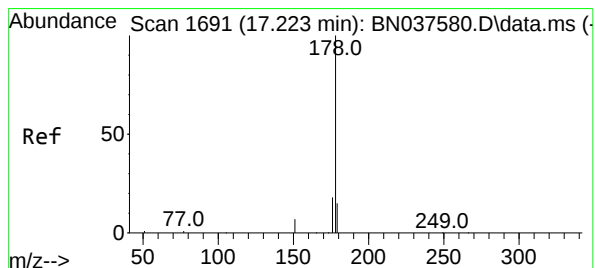
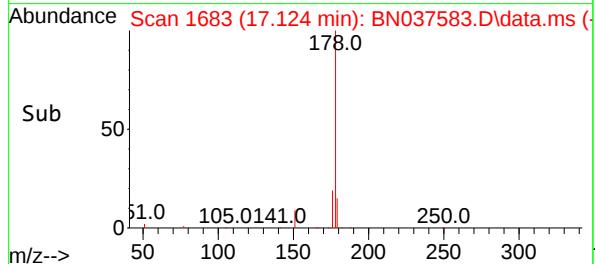
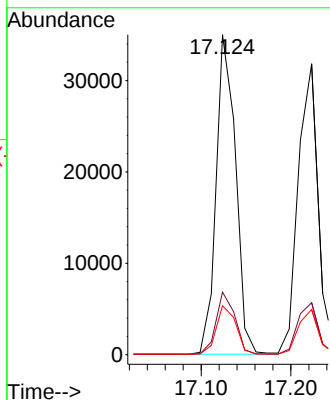
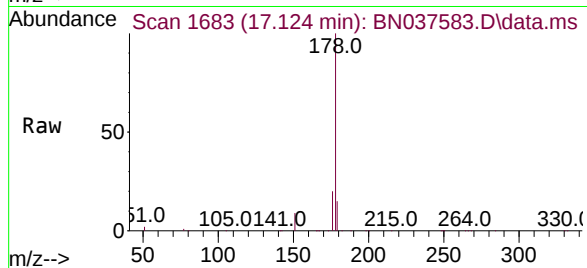




#25
Phenanthrene
Concen: 3.339 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

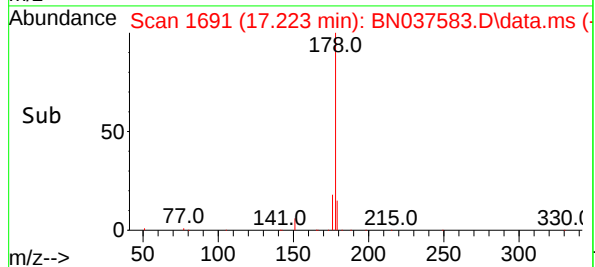
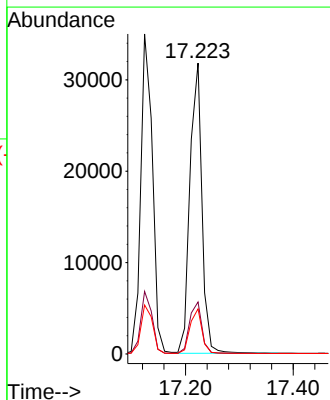
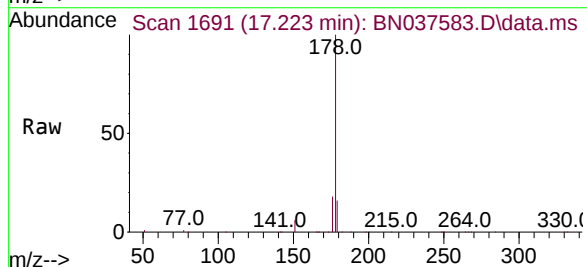
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

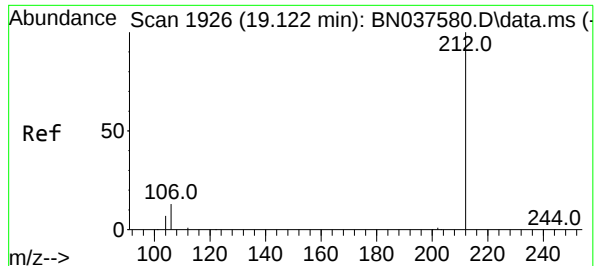
Tgt Ion:178 Resp: 52784
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.3 12.3 18.5



#26
Anthracene
Concen: 3.525 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:178 Resp: 49333
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.376 ng

RT: 19.118 min Scan# 1918

Delta R.T. -0.004 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

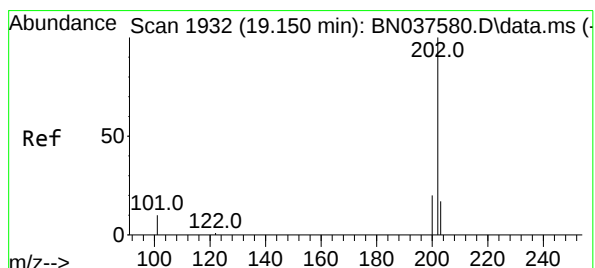
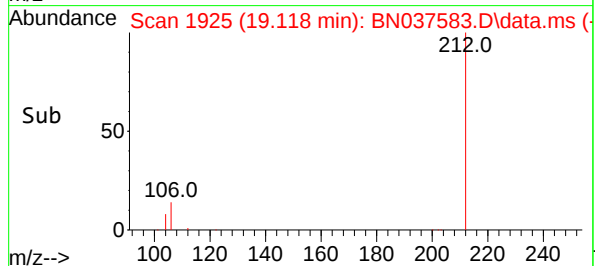
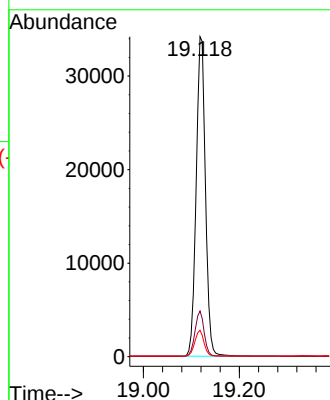
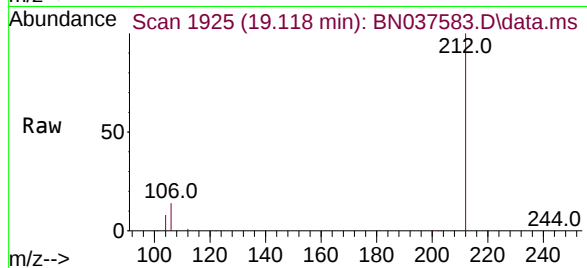
Tgt Ion:212 Resp: 46178

Ion Ratio Lower Upper

212 100

106 13.9 11.5 17.3

104 8.0 6.6 9.8



#28

Fluoranthene

Concen: 3.511 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

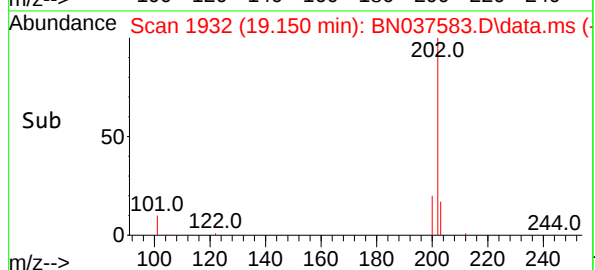
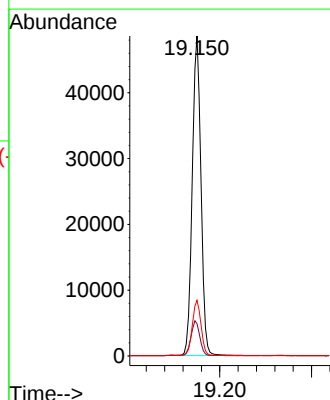
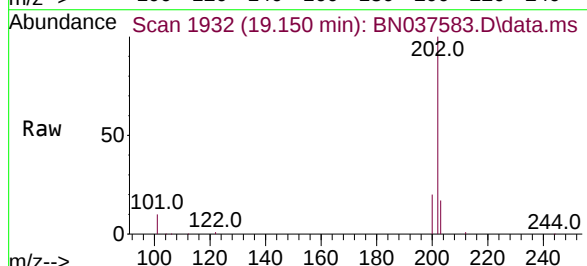
Tgt Ion:202 Resp: 63765

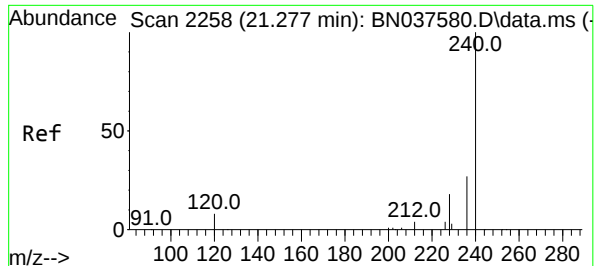
Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

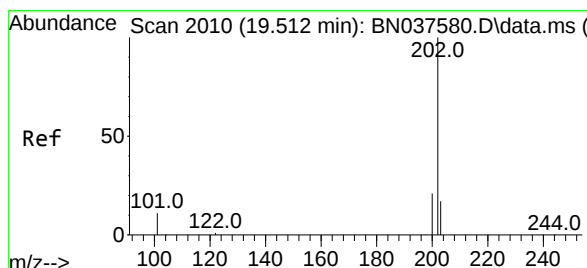
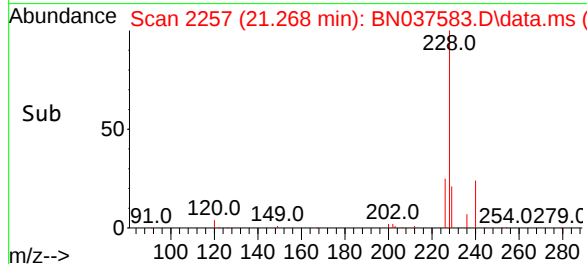
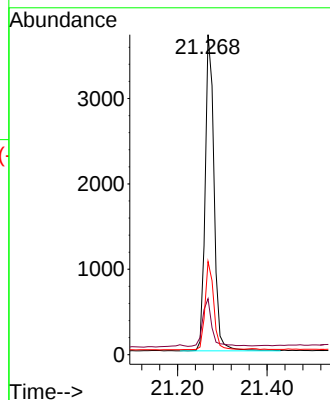
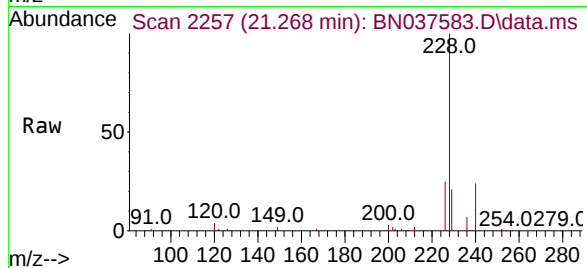
Tgt Ion:240 Resp: 5116

Ion Ratio Lower Upper

240 100

120 17.5 8.9 13.3#

236 29.1 22.6 33.8



#30

Pyrene

Concen: 3.254 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

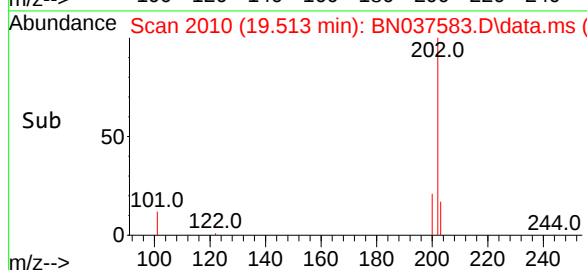
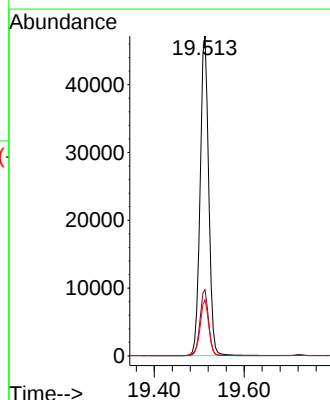
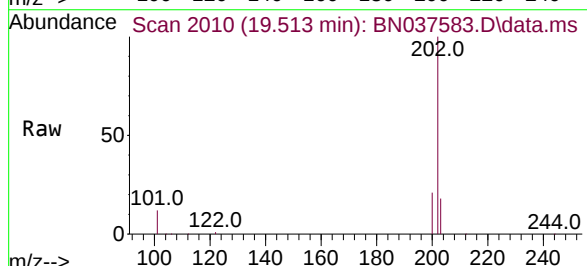
Tgt Ion:202 Resp: 62227

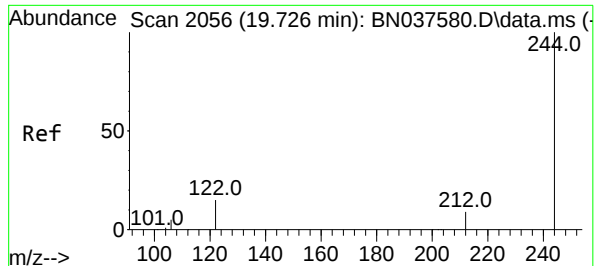
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.8 14.3 21.5

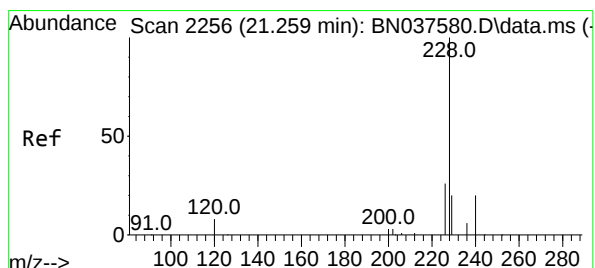
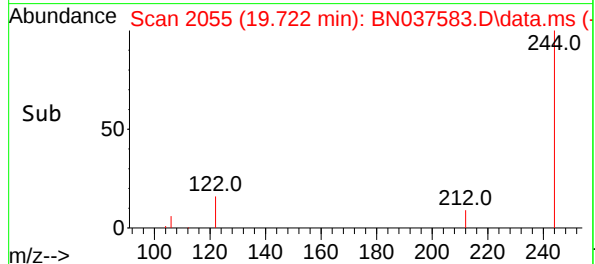
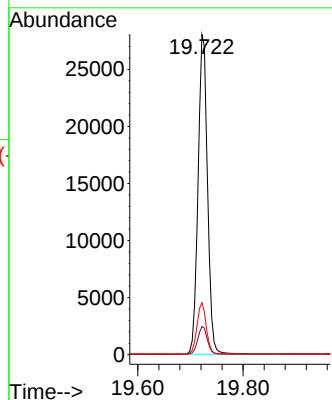
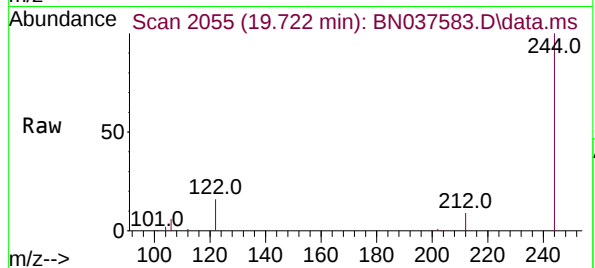




#31
Terphenyl-d14
Concen: 3.315 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.004 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

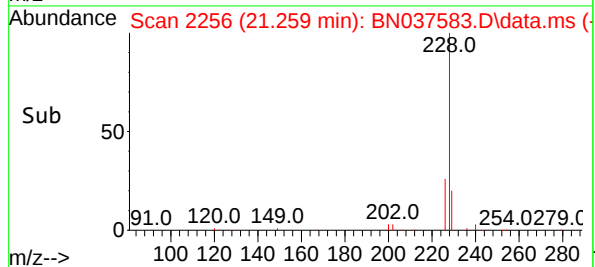
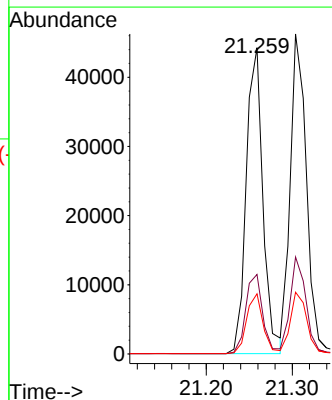
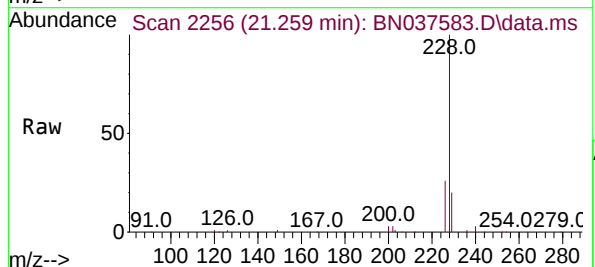
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

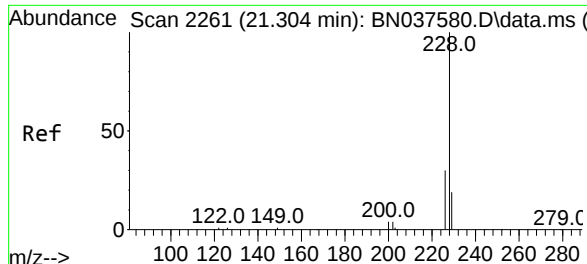
Tgt Ion:244 Resp: 34892
Ion Ratio Lower Upper
244 100
212 8.8 8.2 12.2
122 16.2 13.2 19.8



#32
Benzo(a)anthracene
Concen: 3.491 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:228 Resp: 59663
Ion Ratio Lower Upper
228 100
226 26.0 21.5 32.3
229 19.6 16.5 24.7





#33

Chrysene

Concen: 3.199 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

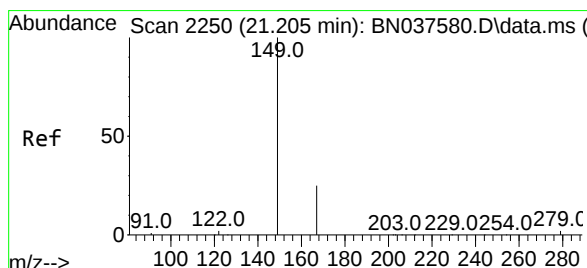
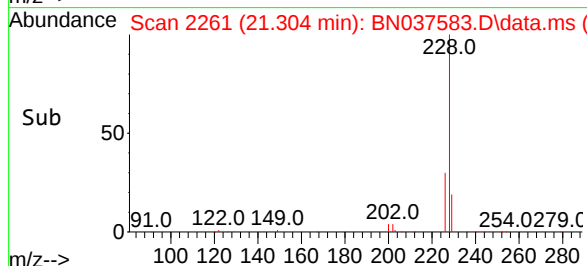
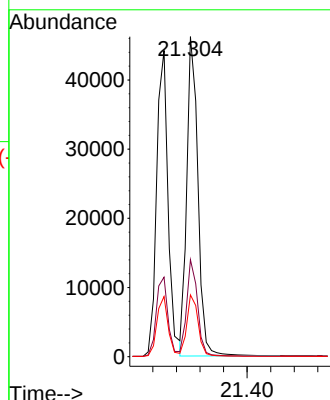
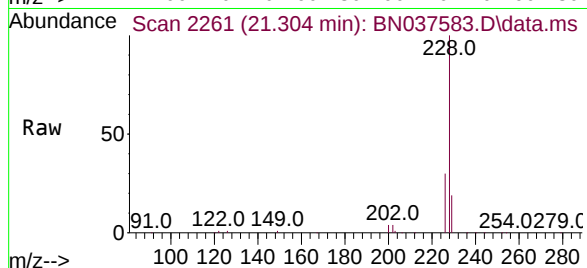
Tgt Ion:228 Resp: 60925

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.440 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

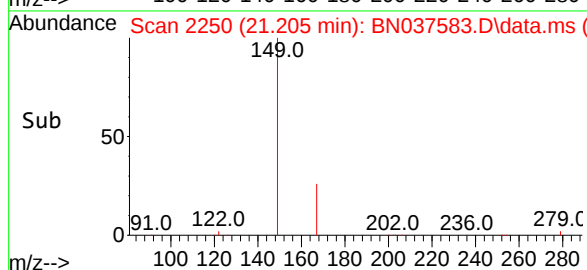
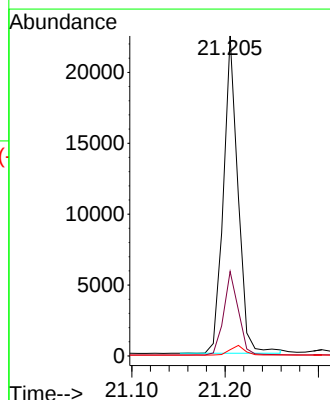
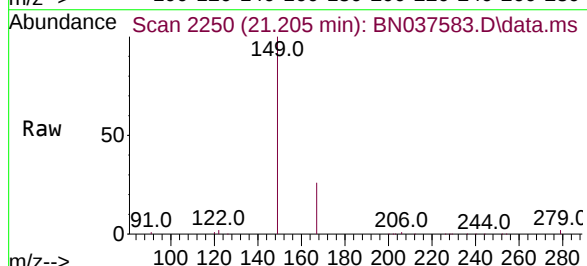
Tgt Ion:149 Resp: 24265

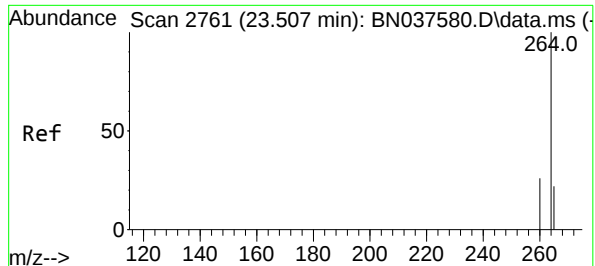
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

279 3.1 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

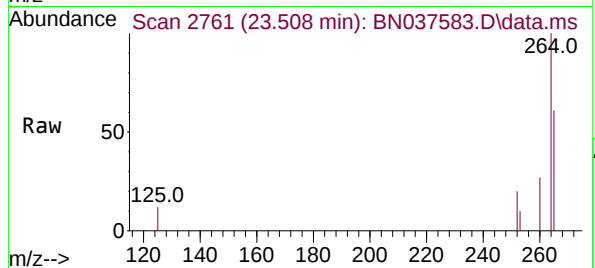
Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

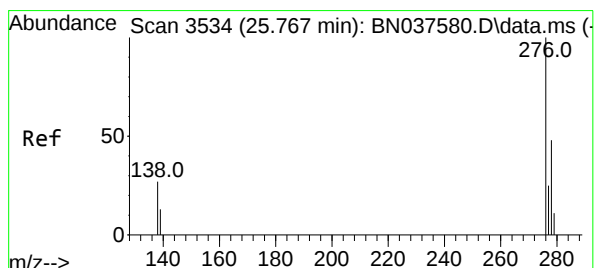
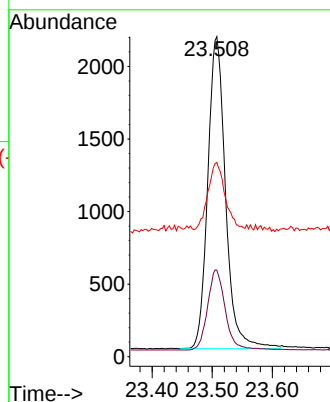
ClientSampleId :

SSTDICC3.2



Tgt Ion:264 Resp: 4411

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.6	32.4
265	60.7	48.2	72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.576 ng

RT: 25.768 min Scan# 3534

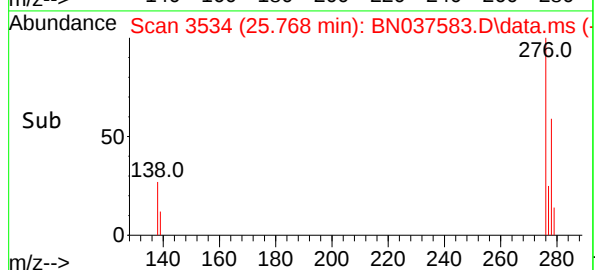
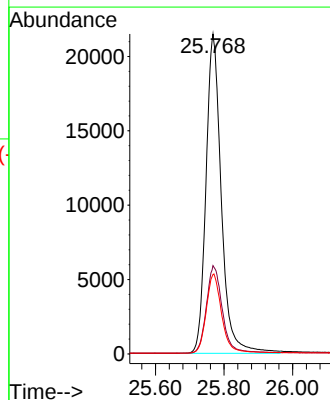
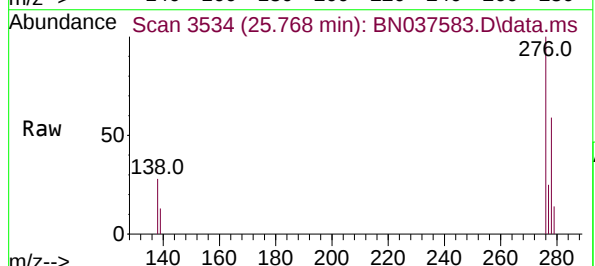
Delta R.T. 0.000 min

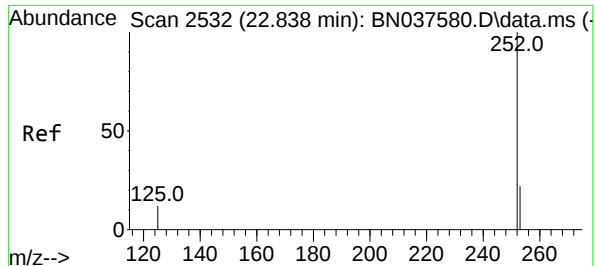
Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Tgt Ion:276 Resp: 66459

Ion	Ratio	Lower	Upper
276	100		
138	28.5	23.3	34.9
277	25.1	19.5	29.3





#37

Benzo(b)fluoranthene

Concen: 3.535 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

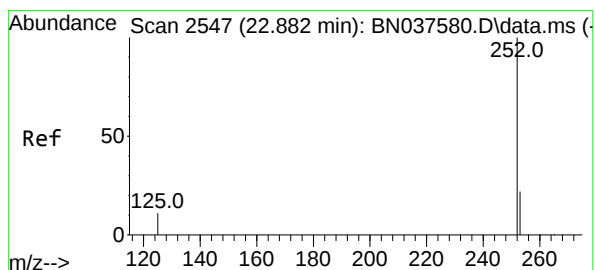
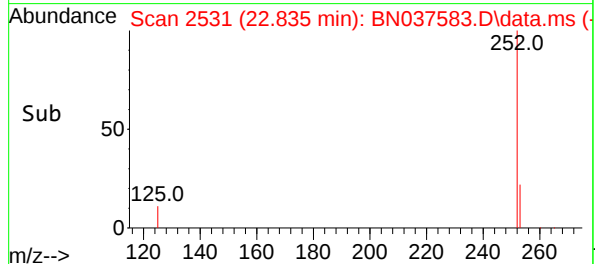
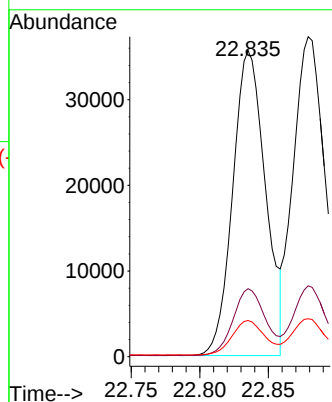
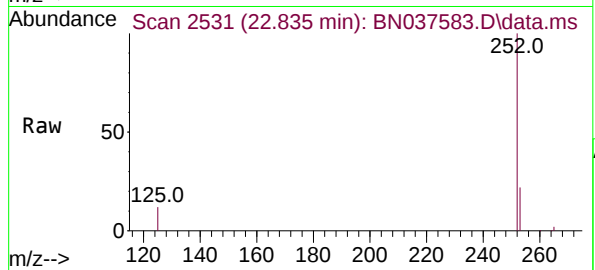
Tgt Ion:252 Resp: 59086

Ion Ratio Lower Upper

252 100

253 22.2 20.0 30.0

125 11.8 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 3.363 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

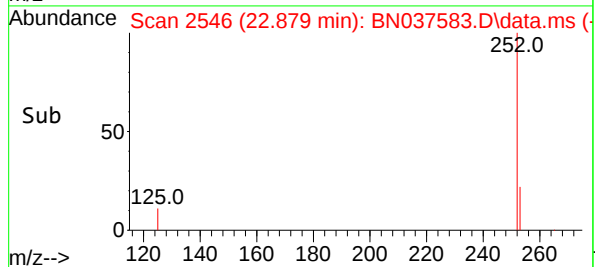
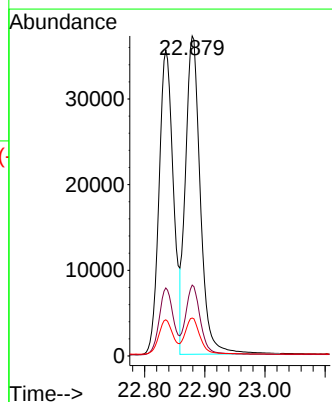
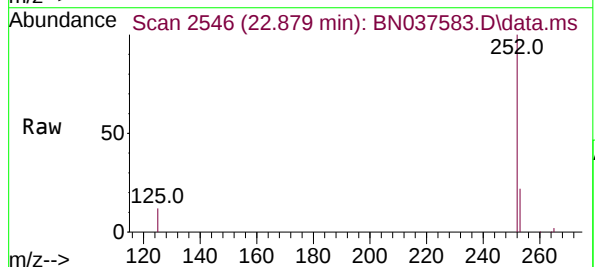
Tgt Ion:252 Resp: 63422

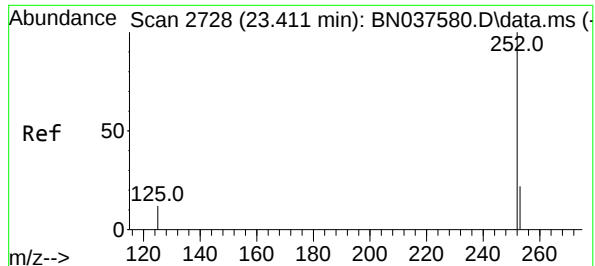
Ion Ratio Lower Upper

252 100

253 22.2 19.9 29.9

125 11.8 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 3.518 ng

RT: 23.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

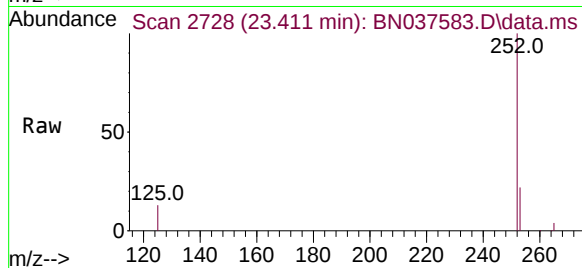
Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



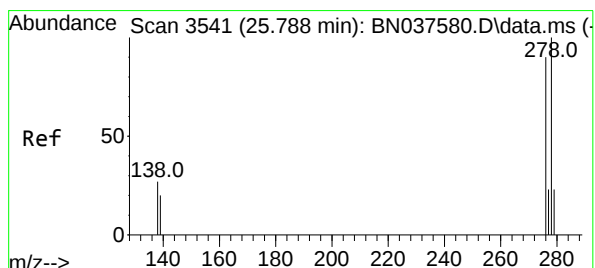
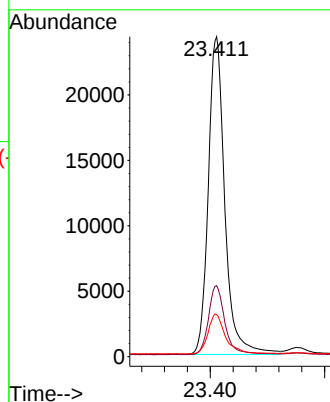
Tgt Ion:252 Resp: 48767

Ion Ratio Lower Upper

252 100

253 22.2 21.6 32.4

125 13.1 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 3.709 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.006 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

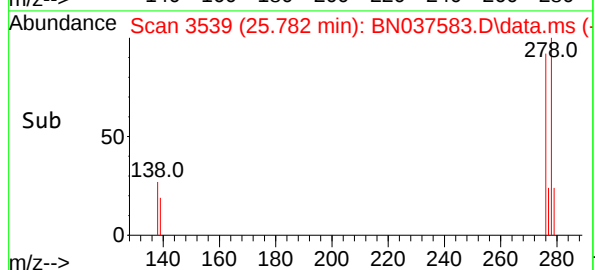
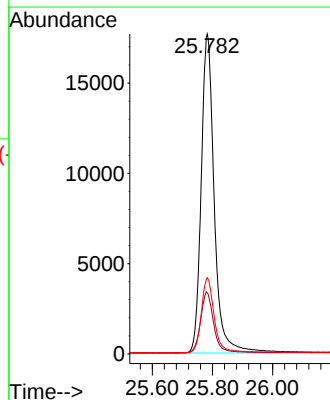
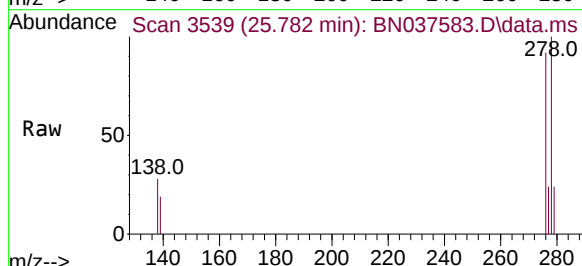
Tgt Ion:278 Resp: 53486

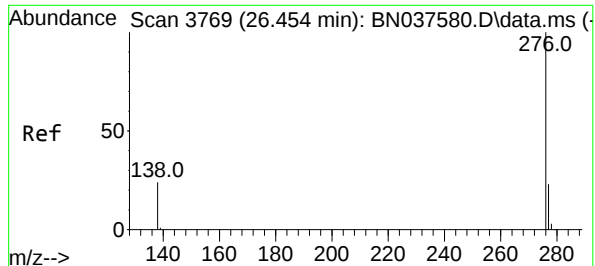
Ion Ratio Lower Upper

278 100

139 19.0 18.3 27.5

279 23.9 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 3.558 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037583.D

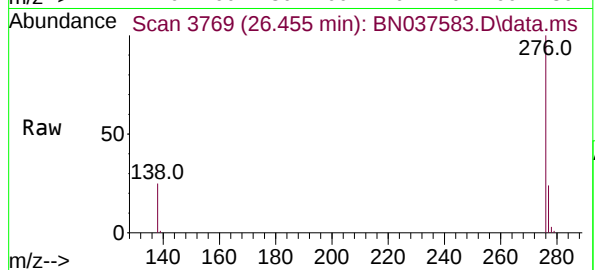
Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



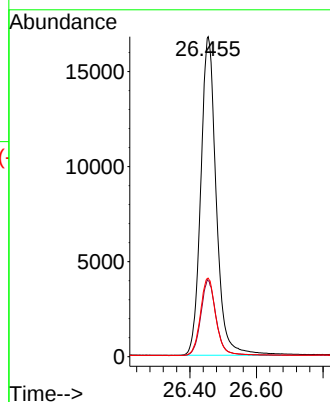
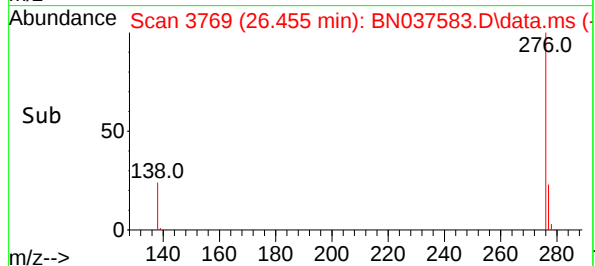
Tgt Ion:276 Resp: 54068

Ion Ratio Lower Upper

276 100

277 23.7 21.0 31.4

138 24.6 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037584.D
 Acq On : 12 Aug 2025 20:05
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Aug 13 04:50:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

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

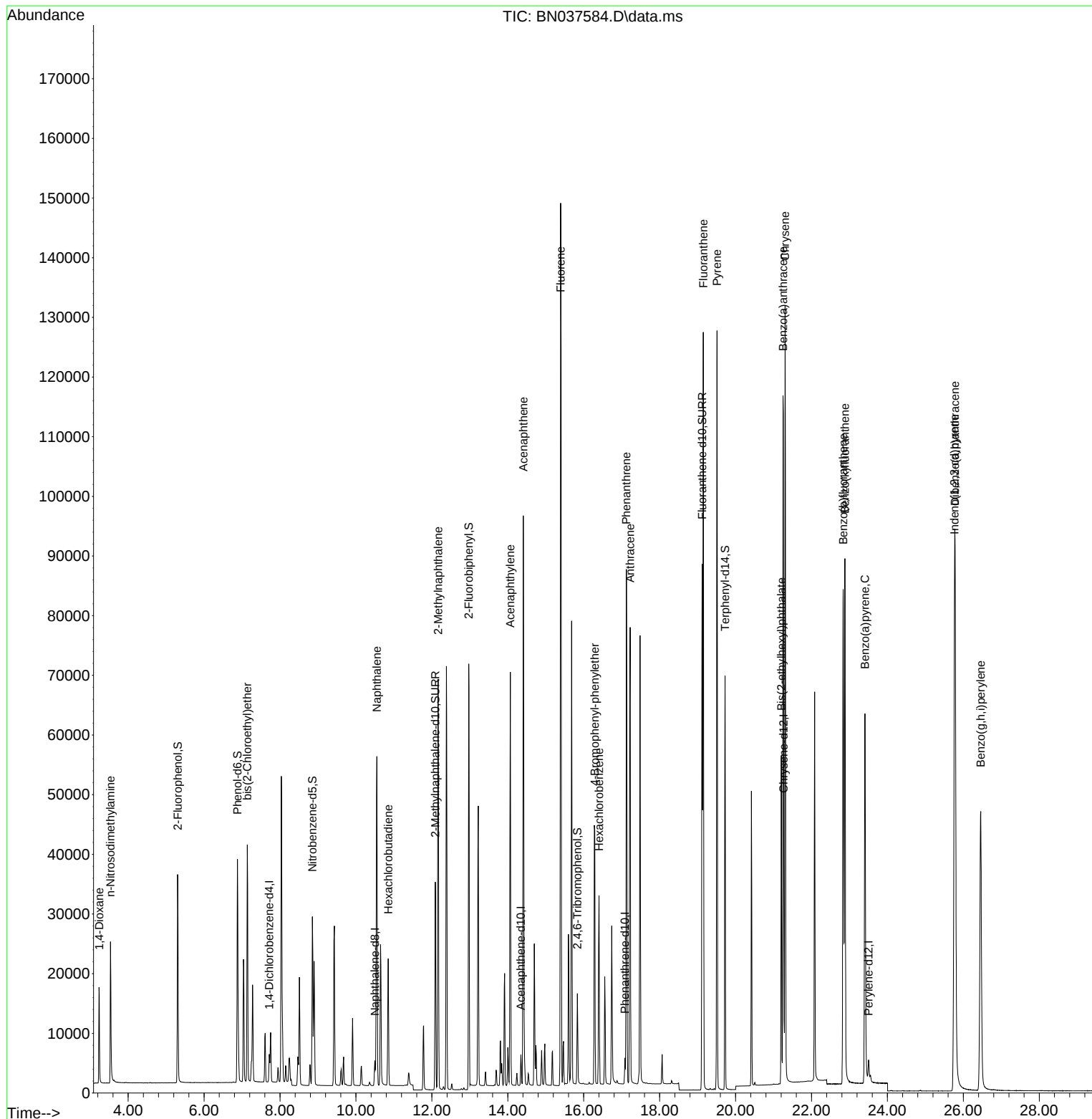
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2149	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5152	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2803	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5318	0.400	ng	0.00
29) Chrysene-d12	21.268	240	5600	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	4653	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	26238	5.386	ng	0.00
5) Phenol-d6	6.879	99	32269	5.504	ng	0.00
8) Nitrobenzene-d5	8.854	82	20990	5.784	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	45385	6.480	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	8185	6.672	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	85489	5.273	ng	0.00
27) Fluoranthene-d10	19.118	212	94332	6.743	ng	0.00
31) Terphenyl-d14	19.722	244	63100	5.477	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	9359	4.552	ng	99
3) n-Nitrosodimethylamine	3.535	42	13640	5.192	ng	# 99
6) bis(2-Chloroethyl)ether	7.139	93	27456	5.197	ng	98
9) Naphthalene	10.551	128	72603	5.293	ng	97
10) Hexachlorobutadiene	10.850	225	17071	5.094	ng	# 100
12) 2-Methylnaphthalene	12.167	142	48917	5.686	ng	98
16) Acenaphthylene	14.067	152	69369	5.521	ng	99
17) Acenaphthene	14.409	154	47237	5.527	ng	92
18) Fluorene	15.392	166	62012	5.546	ng	99
21) 4-Bromophenyl-phenylether	16.292	248	19417	5.809	ng	# 91
22) Hexachlorobenzene	16.404	284	24588	5.190	ng	100
25) Phenanthrene	17.124	178	89516	5.537	ng	100
26) Anthracene	17.223	178	85474	5.972	ng	100
28) Fluoranthene	19.150	202	109583	5.900	ng	100
30) Pyrene	19.513	202	108658	5.190	ng	100
32) Benzo(a)anthracene	21.250	228	104084	5.564	ng	98
33) Chrysene	21.304	228	108554	5.207	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	46994	6.087	ng	98
36) Indeno(1,2,3-cd)pyrene	25.768	276	116962	5.965	ng	99
37) Benzo(b)fluoranthene	22.835	252	106138	6.019	ng	# 91
38) Benzo(k)fluoranthene	22.879	252	110373	5.548	ng	# 90
39) Benzo(a)pyrene	23.408	252	87699	5.997	ng	# 87
40) Dibenzo(a,h)anthracene	25.782	278	94267	6.197	ng	92
41) Benzo(g,h,i)perylene	26.458	276	95537	5.960	ng	95

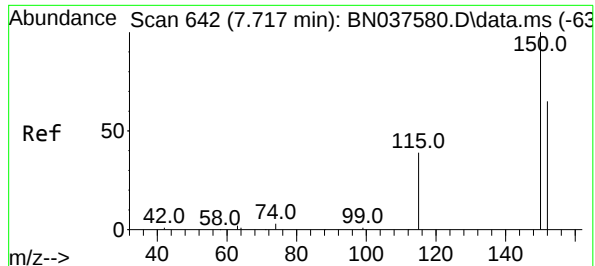
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037584.D
Acq On : 12 Aug 2025 20:05
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

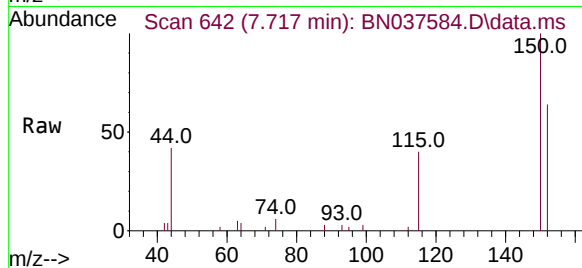
Quant Time: Aug 13 04:50:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration



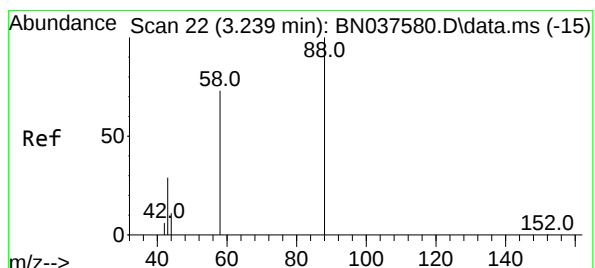
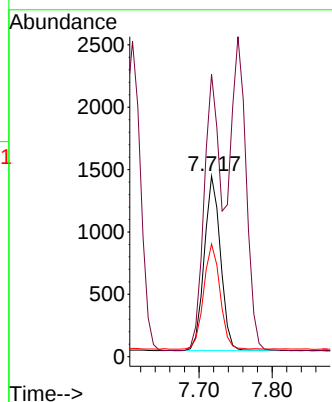
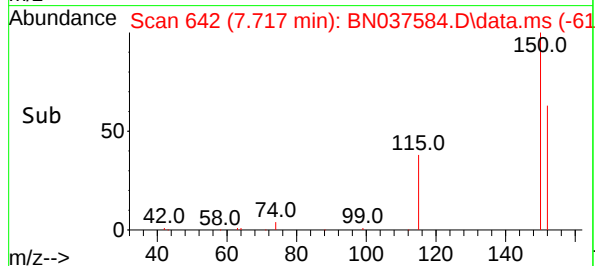


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

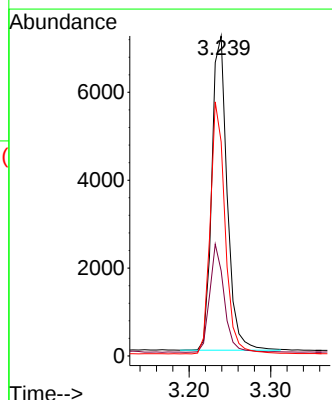
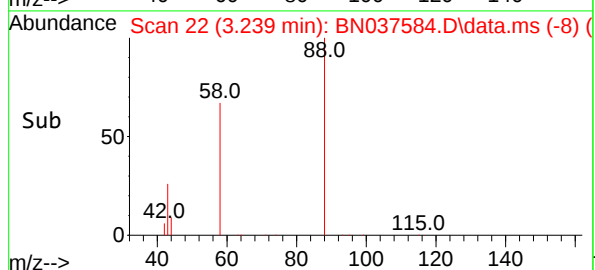
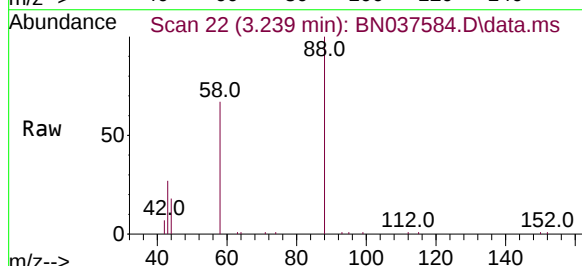


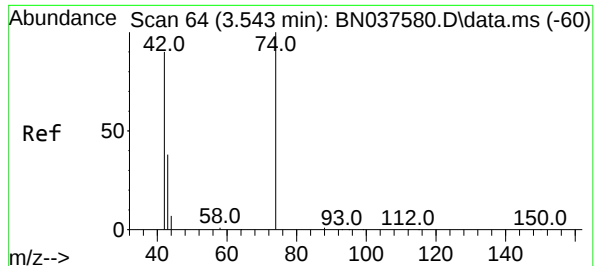
Tgt Ion:152 Resp: 2149
Ion Ratio Lower Upper
152 100
150 156.4 122.2 183.4
115 62.4 49.8 74.6



#2
1,4-Dioxane
Concen: 4.552 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion: 88 Resp: 9359
Ion Ratio Lower Upper
88 100
43 32.5 25.8 38.6
58 77.5 61.2 91.8

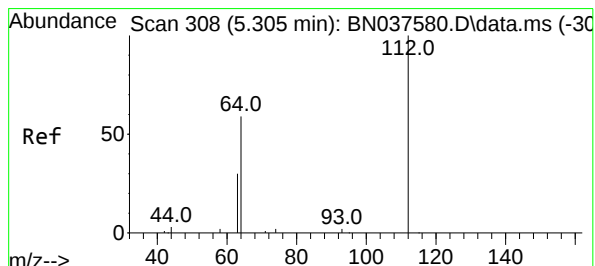
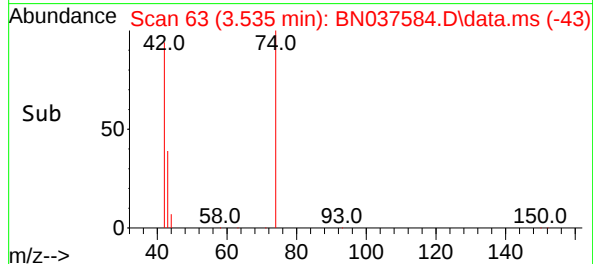
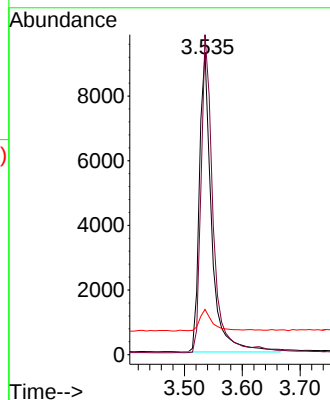
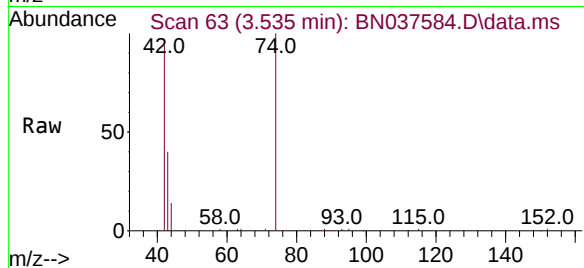




#3
n-Nitrosodimethylamine
Concen: 5.192 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

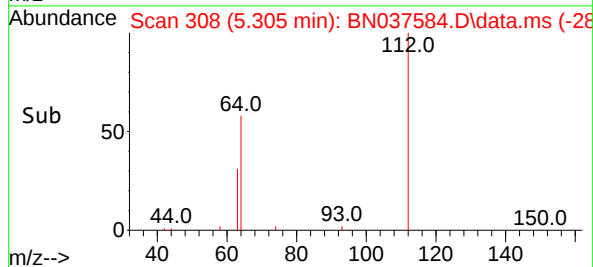
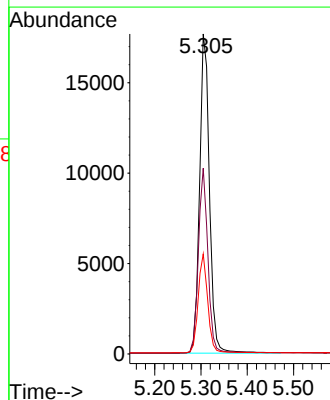
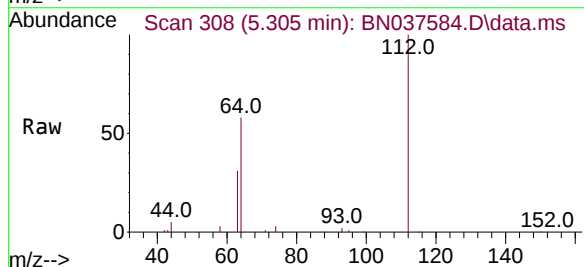
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

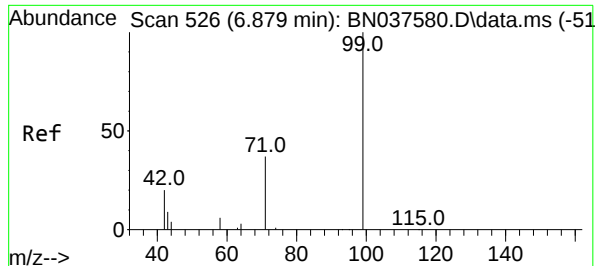
Tgt Ion: 42 Resp: 13640
Ion Ratio Lower Upper
42 100
74 102.7 82.0 123.0
44 7.6 7.9 11.9#



#4
2-Fluorophenol
Concen: 5.386 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion: 112 Resp: 26238
Ion Ratio Lower Upper
112 100
64 56.5 44.9 67.3
63 30.1 23.4 35.2

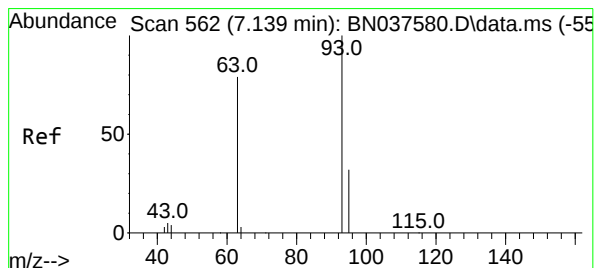
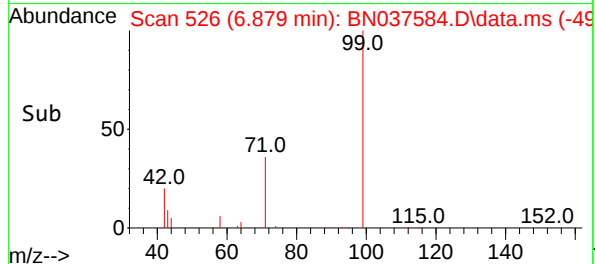
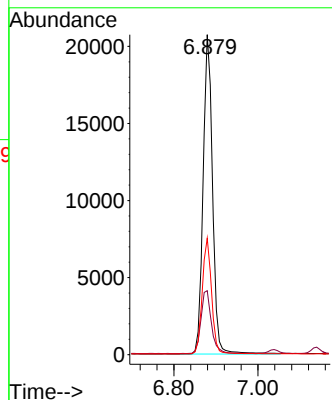
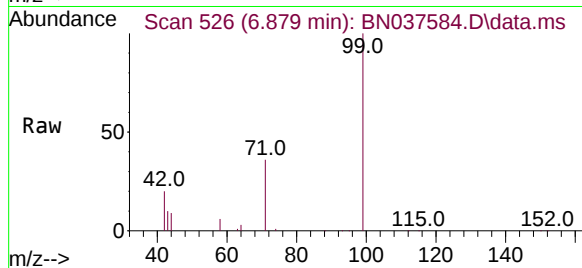




#5
Phenol-d6
Concen: 5.504 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

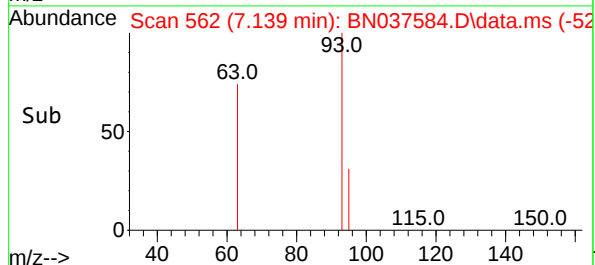
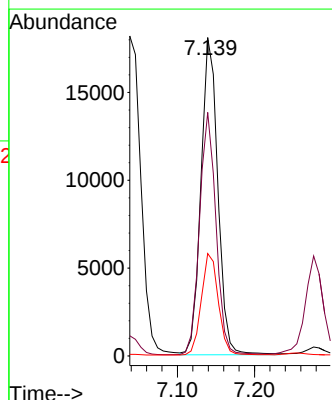
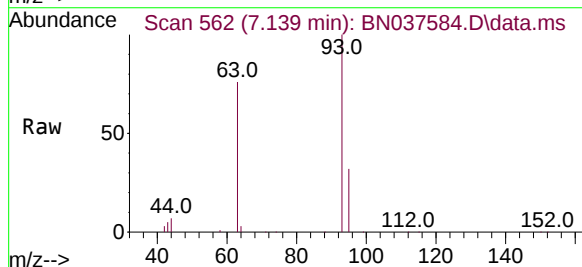
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

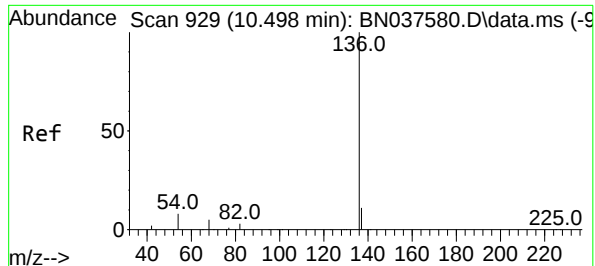
Tgt Ion: 99 Resp: 32269
Ion Ratio Lower Upper
99 100
42 21.8 18.5 27.7
71 35.9 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 5.197 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion: 93 Resp: 27456
Ion Ratio Lower Upper
93 100
63 74.3 58.0 87.0
95 32.1 24.9 37.3

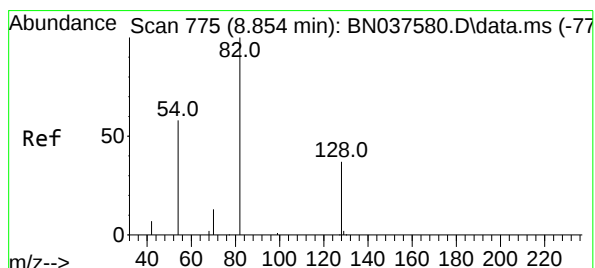
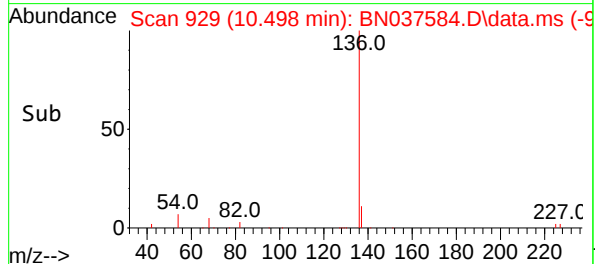
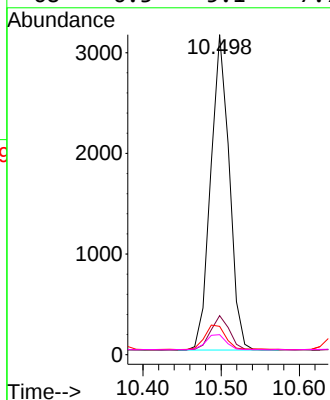
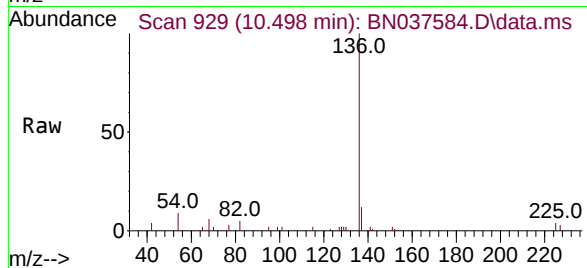




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

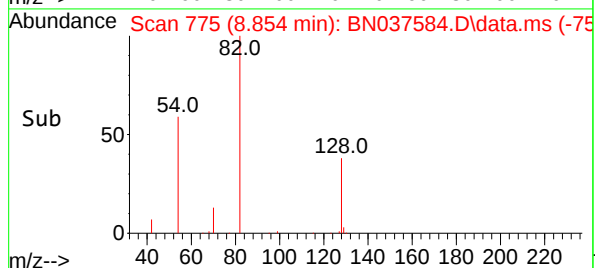
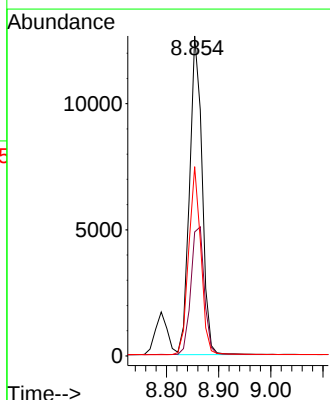
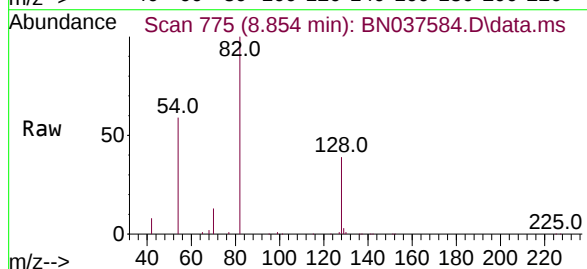
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

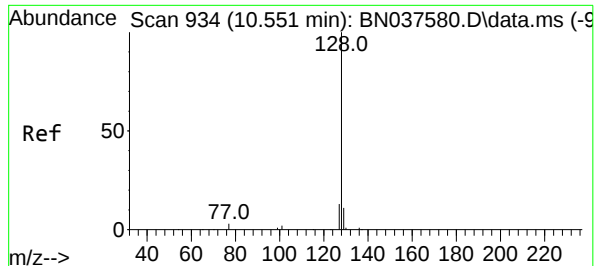
Tgt Ion:	136	Resp:	5152
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	8.9	7.3	10.9
68	6.3	5.1	7.7



#8
Nitrobenzene-d5
Concen: 5.784 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:	82	Resp:	20990
Ion	Ratio	Lower	Upper
82	100		
128	38.7	32.6	48.8
54	59.1	48.9	73.3

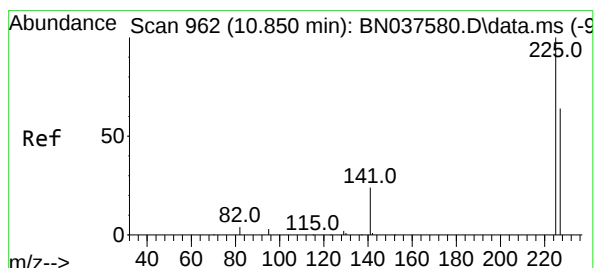
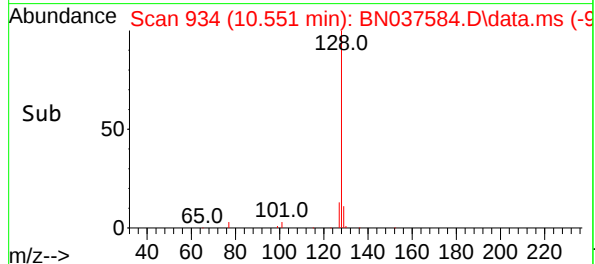
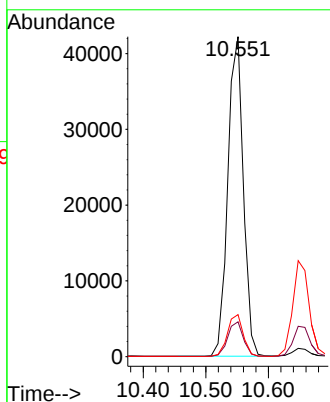
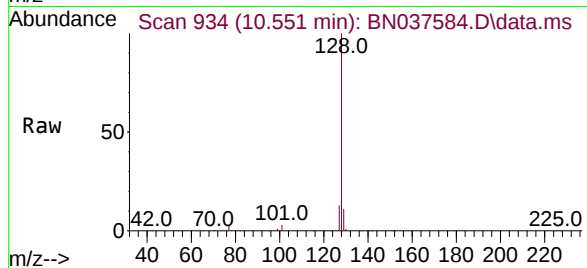




#9
Naphthalene
Concen: 5.293 ng
RT: 10.551 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

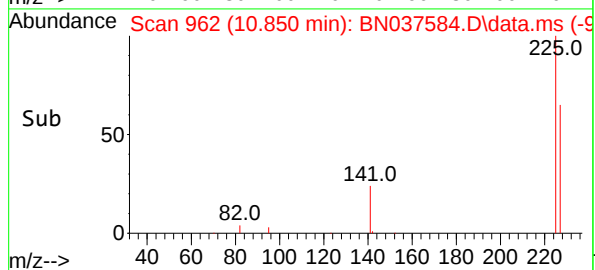
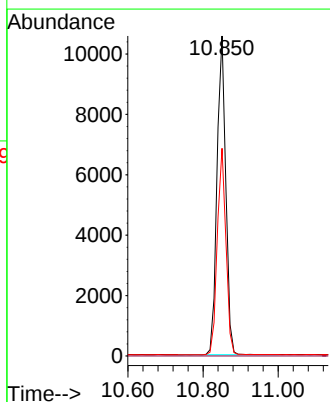
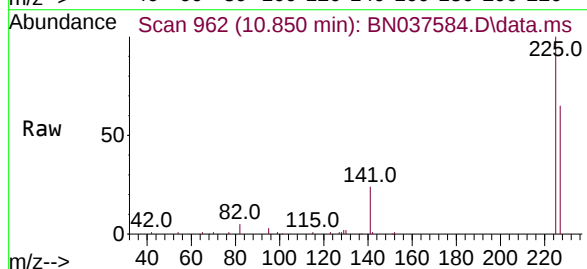
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

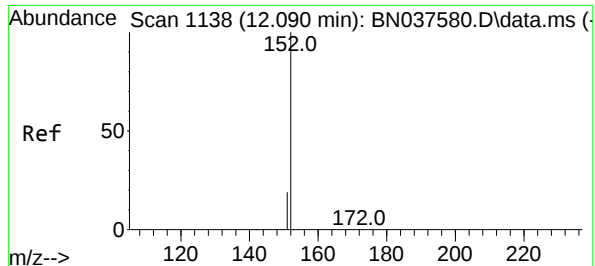
Tgt Ion:128 Resp: 72603
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.1 11.5 17.3



#10
Hexachlorobutadiene
Concen: 5.094 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:225 Resp: 17071
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.8 76.2

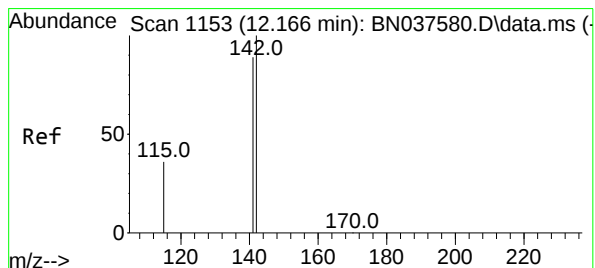
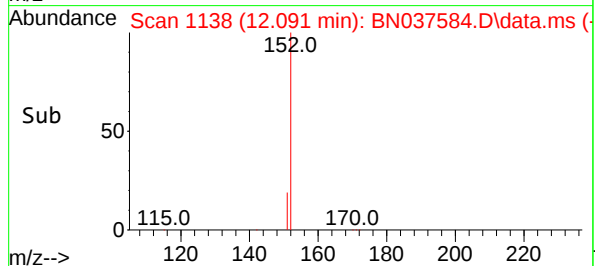
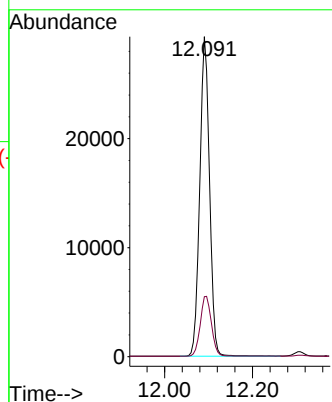
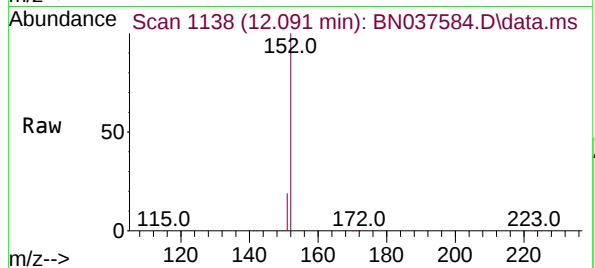




#11
2-Methylnaphthalene-d10
Concen: 6.480 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

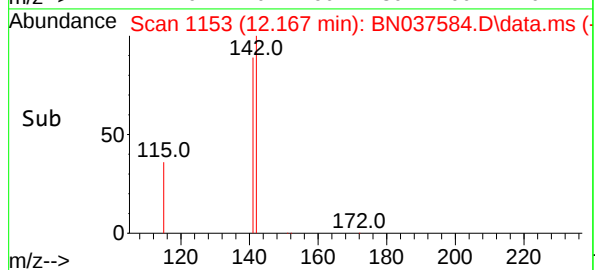
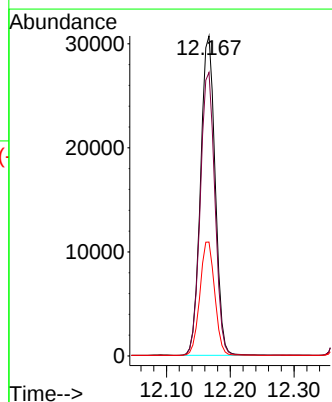
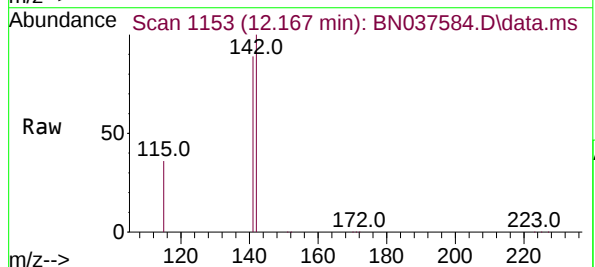
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

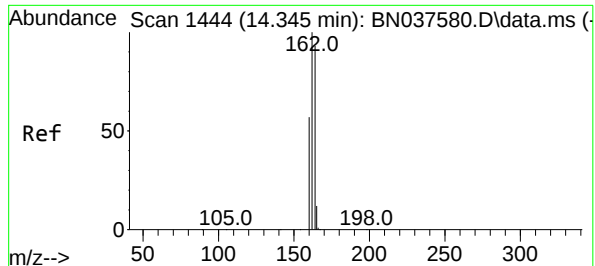
Tgt Ion:152 Resp: 45385
Ion Ratio Lower Upper
152 100
151 21.4 17.3 25.9



#12
2-Methylnaphthalene
Concen: 5.686 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:142 Resp: 48917
Ion Ratio Lower Upper
142 100
141 88.6 71.4 107.0
115 35.6 30.2 45.4

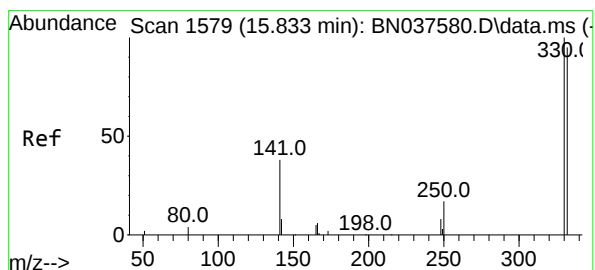
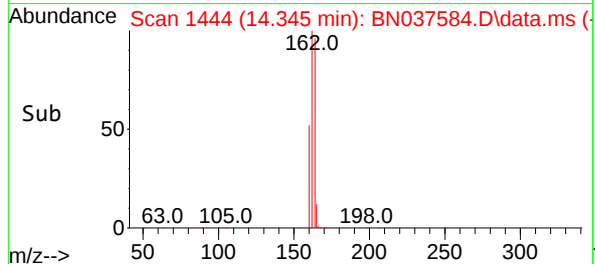
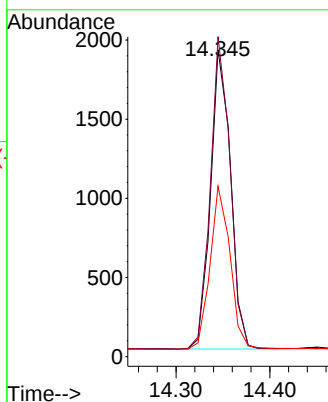
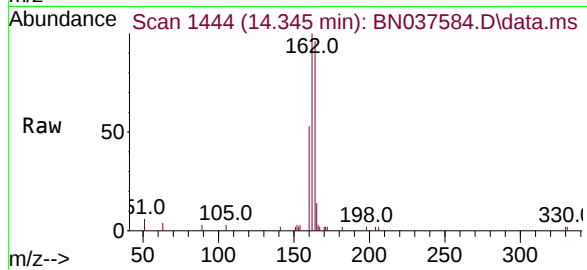




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

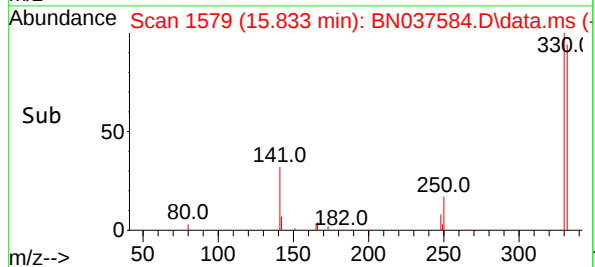
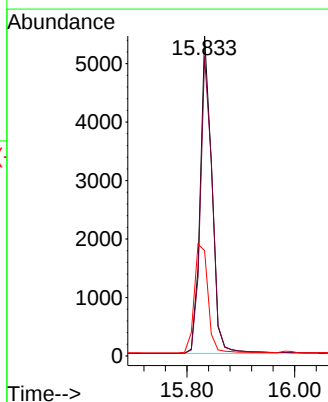
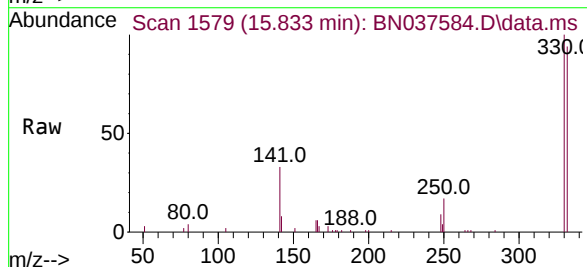
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

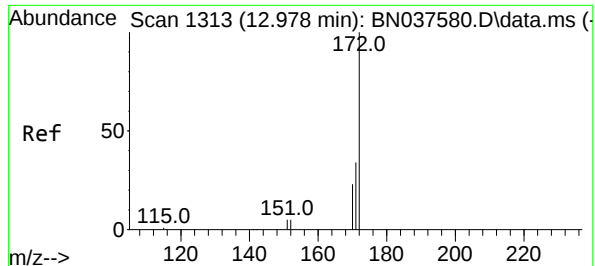
Tgt Ion	164	162	160
Resp:	2803		
Ion Ratio	100	104.2	55.5
Lower		85.5	49.5
Upper		128.3	74.3



#14
2,4,6-Tribromophenol
Concen: 6.672 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion	330	332	141
Resp:	8185		
Ion Ratio	100	96.2	40.7
Lower		77.4	30.9
Upper		116.0	46.3

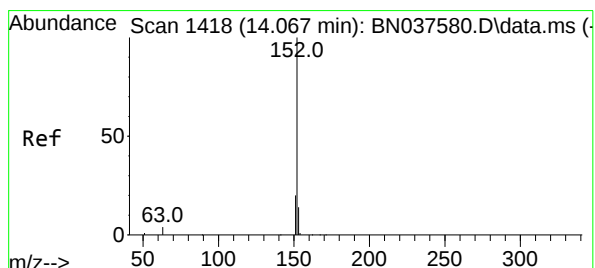
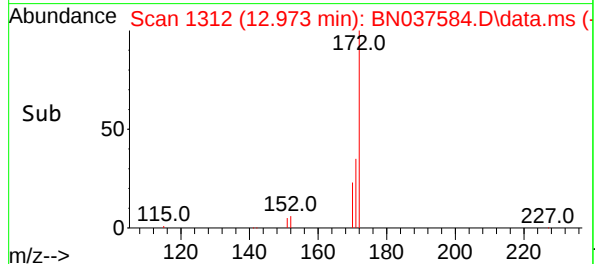
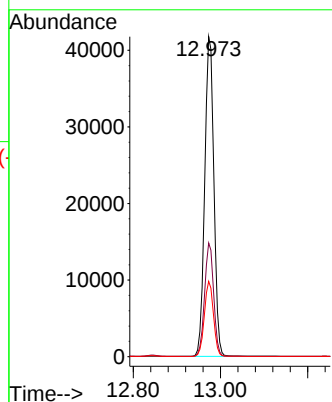
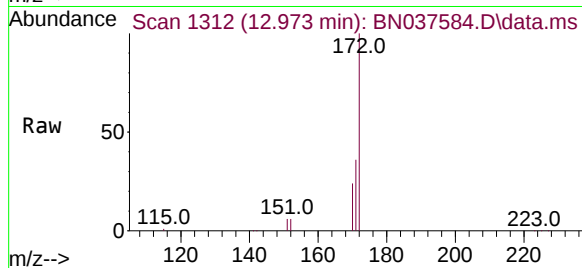




#15
2-Fluorobiphenyl
Concen: 5.273 ng
RT: 12.973 min Scan# 1312
Delta R.T. -0.005 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

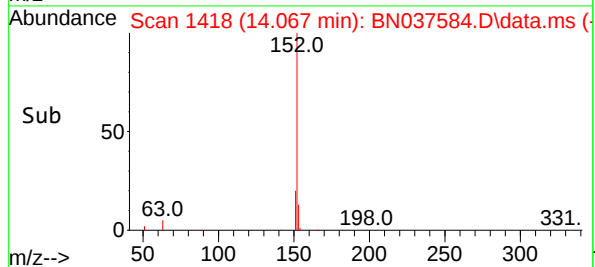
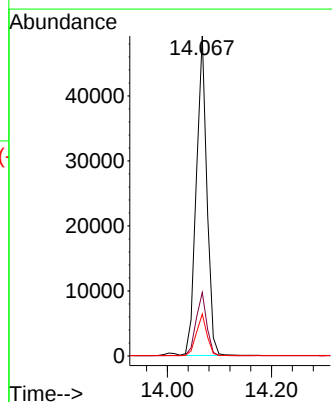
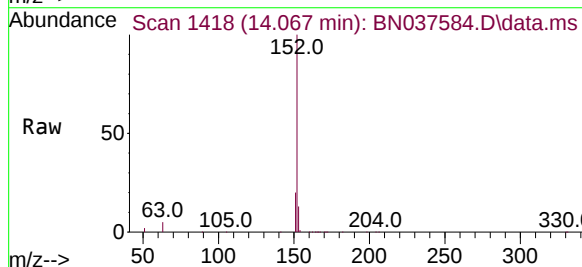
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

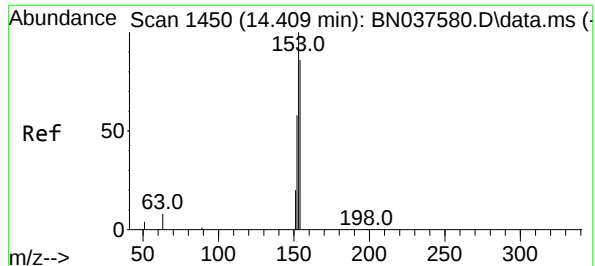
Tgt Ion:172 Resp: 85489
Ion Ratio Lower Upper
172 100
171 35.6 28.2 42.4
170 23.6 19.2 28.8



#16
Acenaphthylene
Concen: 5.521 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:152 Resp: 69369
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 12.9 10.7 16.1

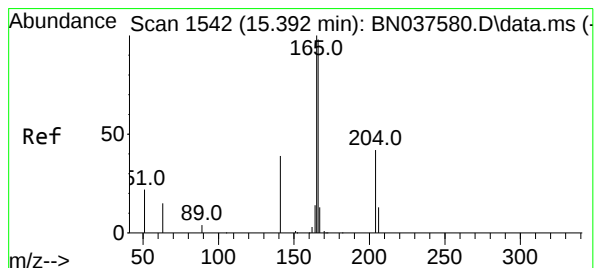
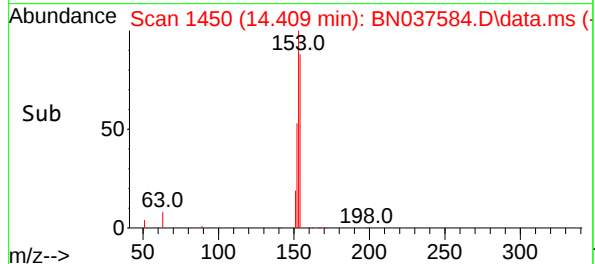
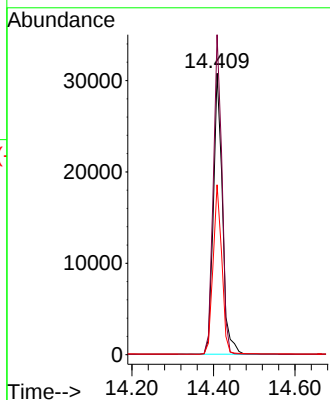
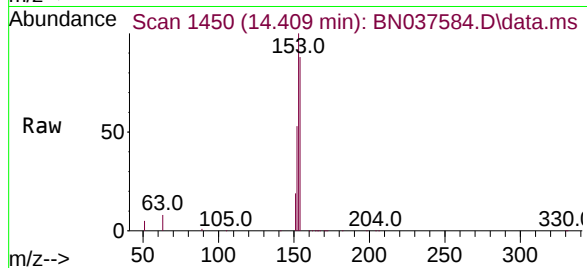




#17
Acenaphthene
Concen: 5.527 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

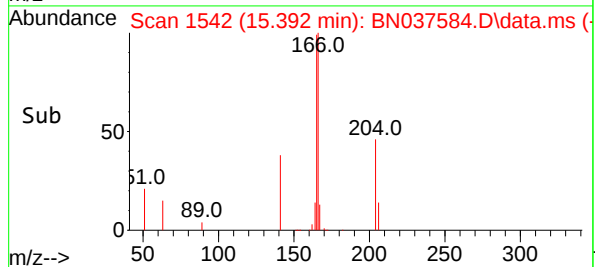
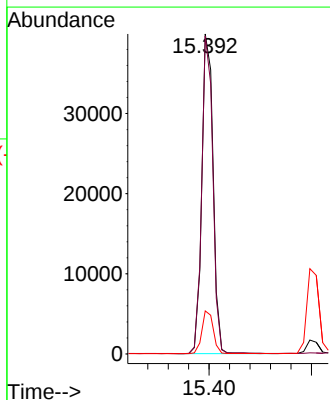
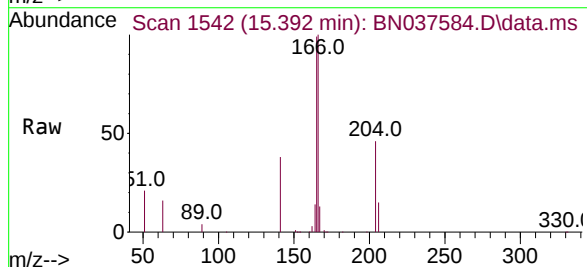
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

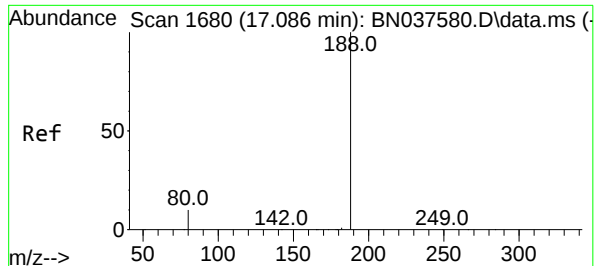
Tgt Ion:154 Resp: 47237
Ion Ratio Lower Upper
154 100
153 108.5 90.6 135.8
152 58.2 54.9 82.3



#18
Fluorene
Concen: 5.546 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:166 Resp: 62012
Ion Ratio Lower Upper
166 100
165 97.8 78.9 118.3
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

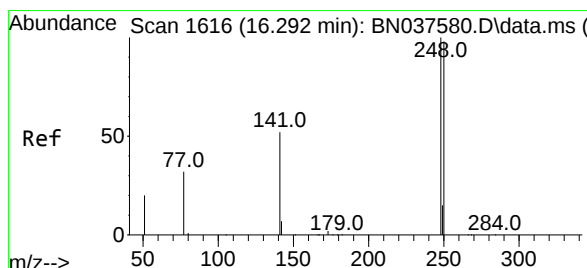
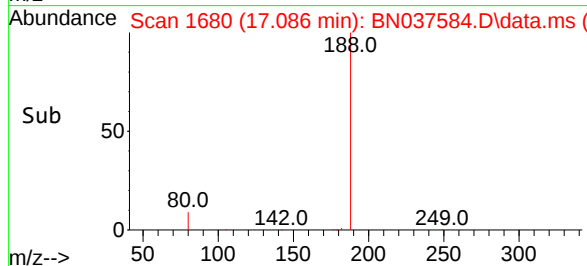
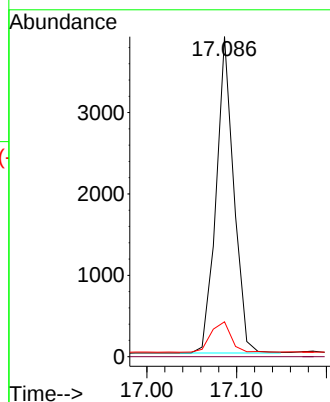
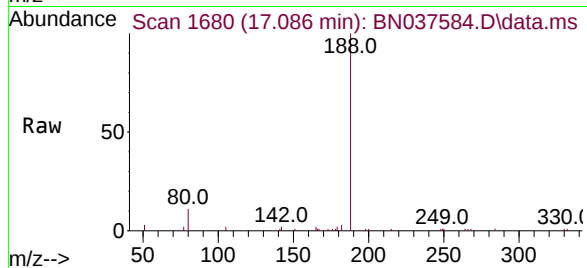
Tgt Ion:188 Resp: 5318

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 9.1 13.7



#21

4-Bromophenyl-phenylether

Concen: 5.809 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

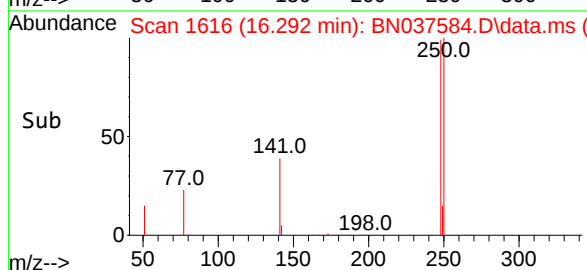
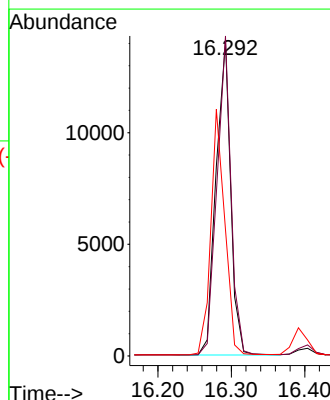
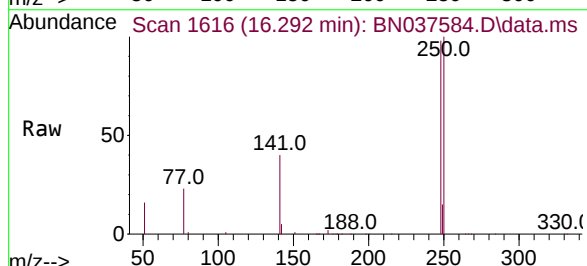
Tgt Ion:248 Resp: 19417

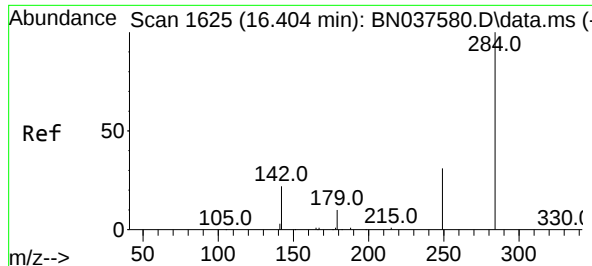
Ion Ratio Lower Upper

248 100

250 101.5 78.6 118.0

141 40.1 43.7 65.5#

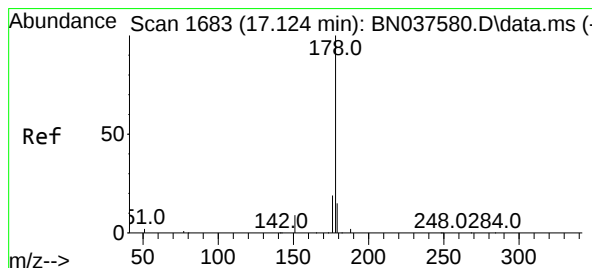
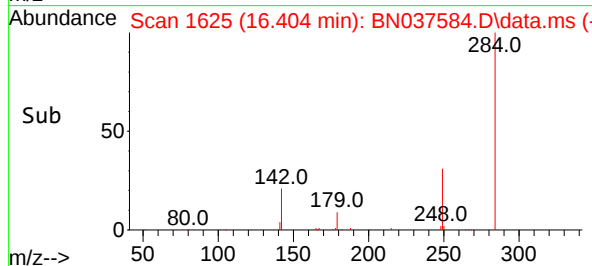
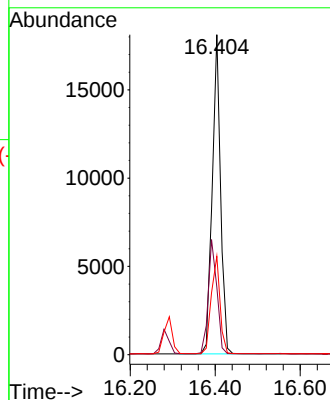
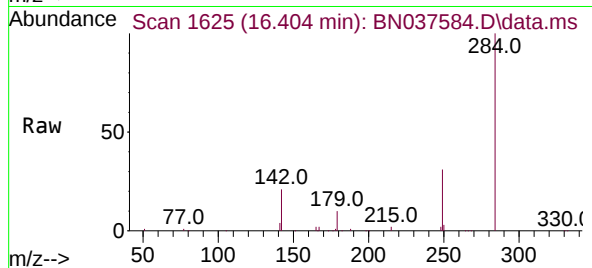




#22
Hexachlorobenzene
Concen: 5.190 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

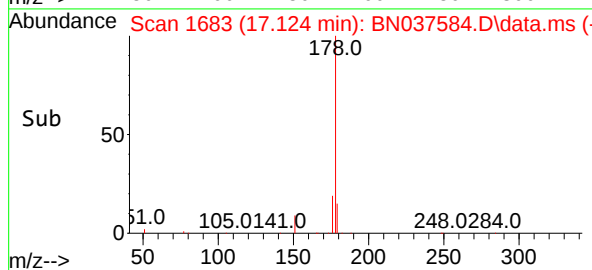
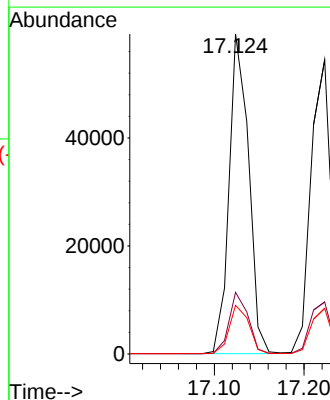
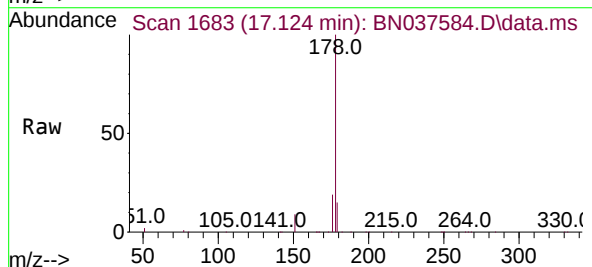
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

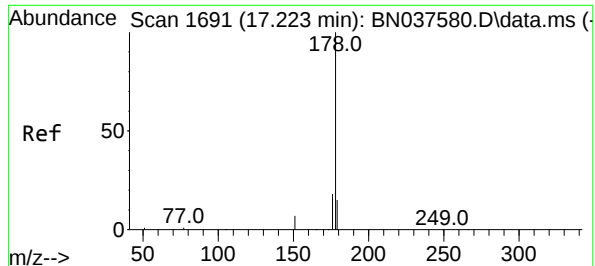
Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	29.8	44.6
249	32.3	26.0	39.0



#25
Phenanthrene
Concen: 5.537 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.3	18.5

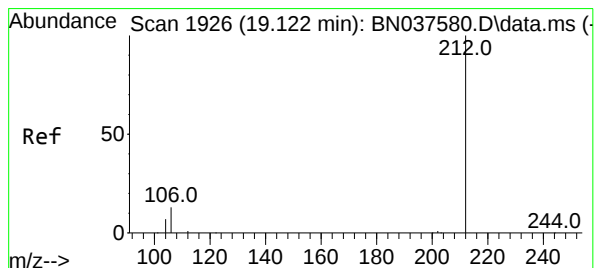
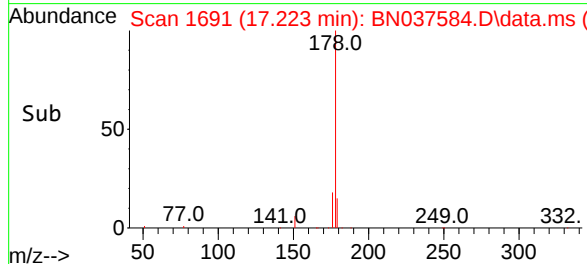
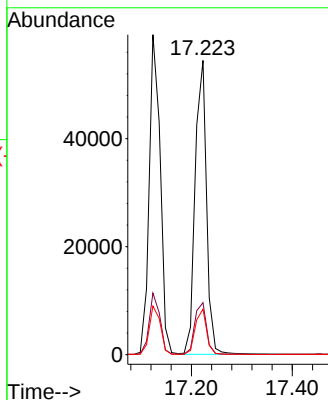
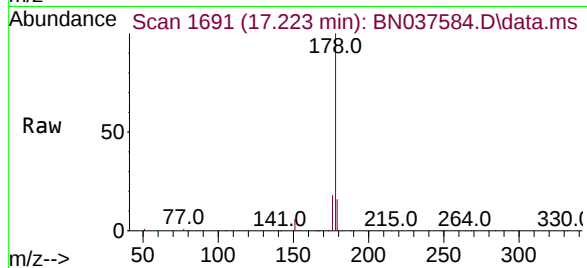




#26
Anthracene
Concen: 5.972 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

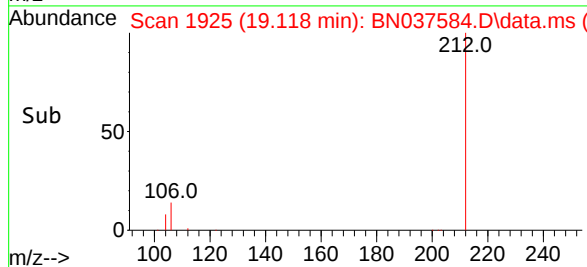
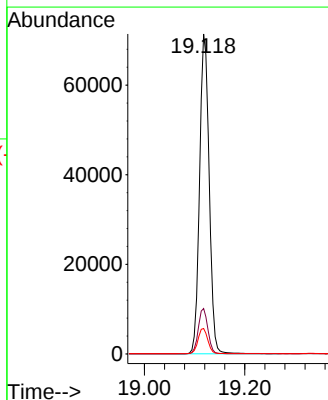
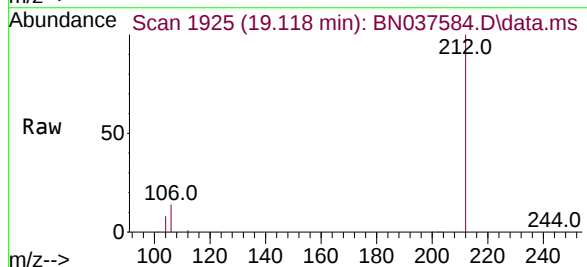
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

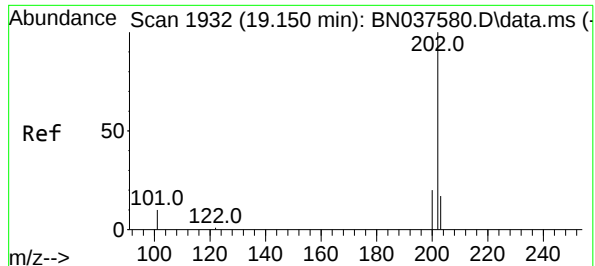
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.7	22.1
179	15.4	12.3	18.5



#27
Fluoranthene-d10
Concen: 6.743 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.005 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.5	17.3
104	8.0	6.6	9.8

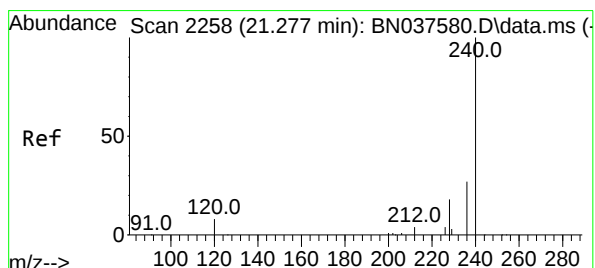
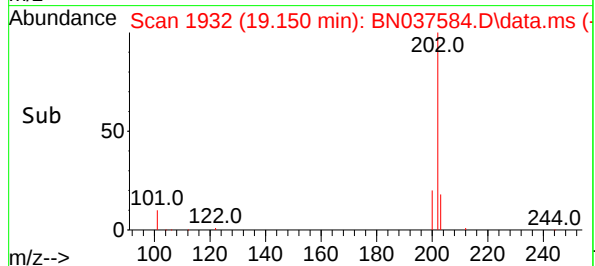
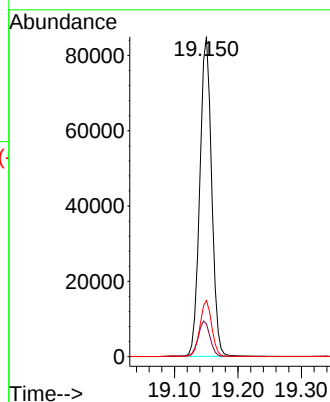
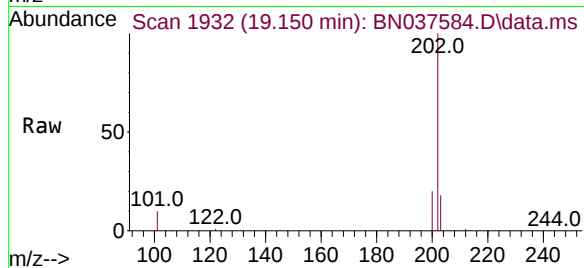




#28
Fluoranthene
Concen: 5.900 ng
RT: 19.150 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

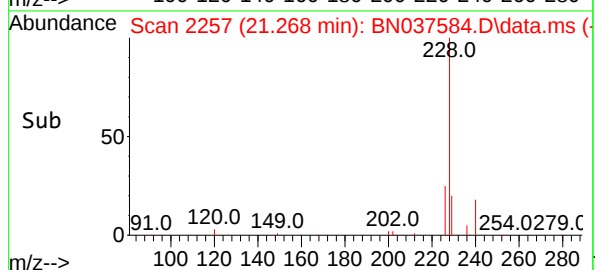
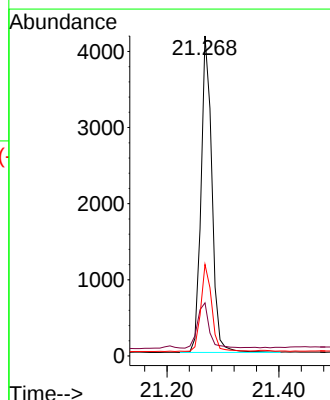
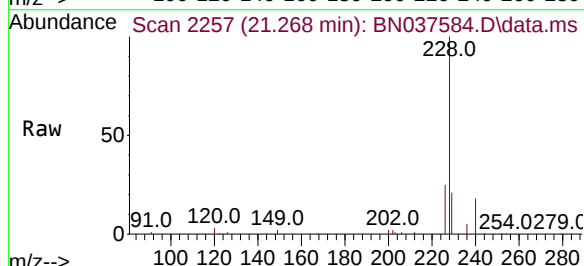
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

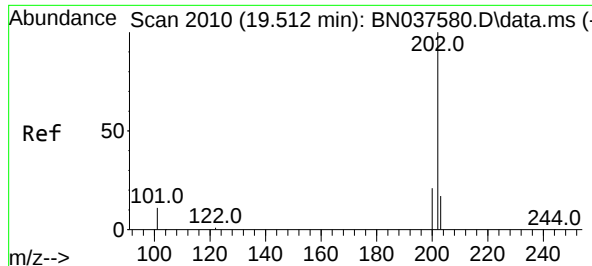
Tgt Ion:202 Resp: 109583
Ion Ratio Lower Upper
202 100
101 11.4 9.0 13.6
203 17.4 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.009 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:240 Resp: 5600
Ion Ratio Lower Upper
240 100
120 16.6 8.9 13.3#
236 28.6 22.6 33.8

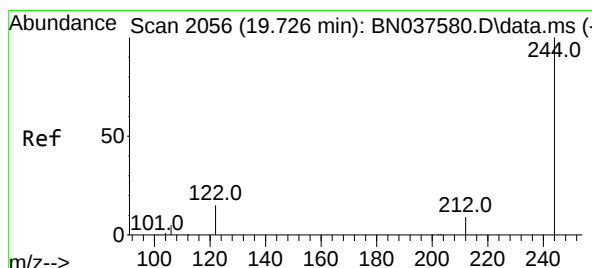
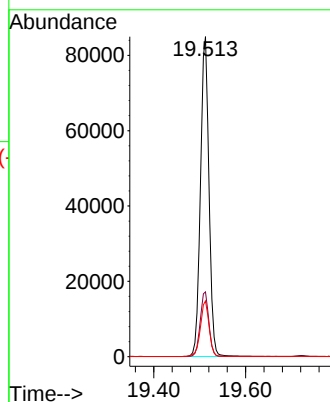
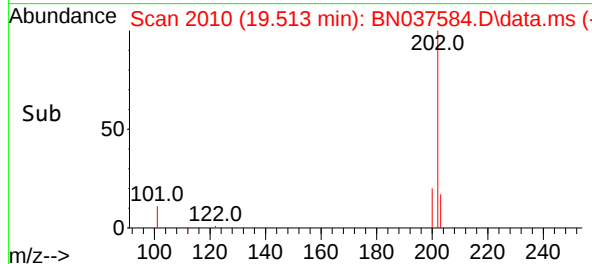
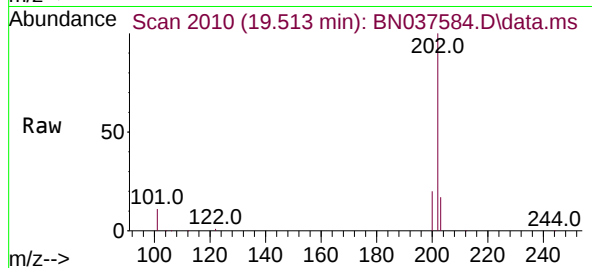




#30
Pyrene
Concen: 5.190 ng
RT: 19.513 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

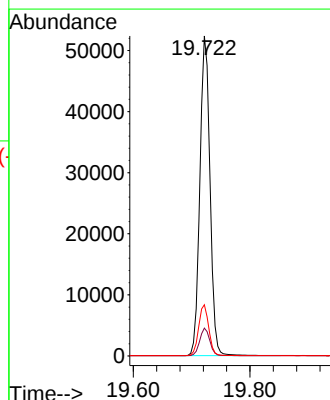
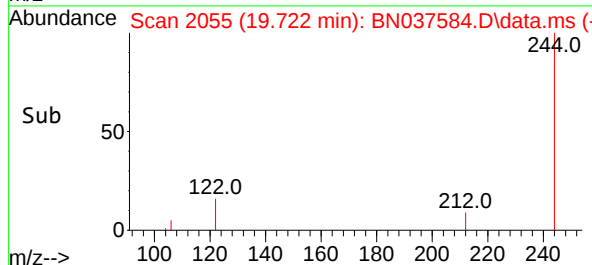
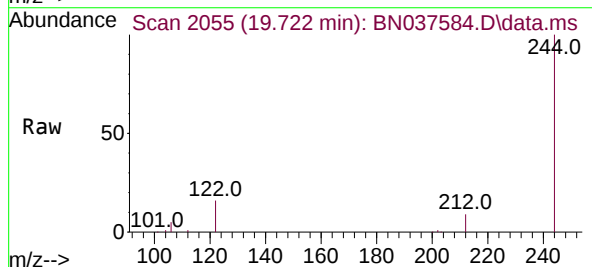
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

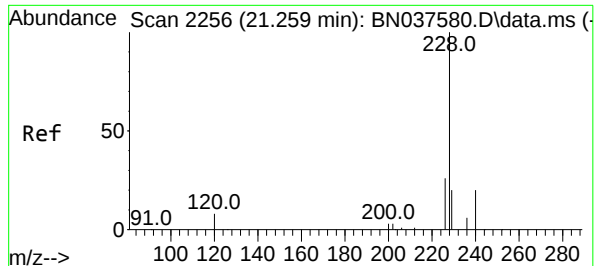
Tgt Ion:202 Resp: 108658
Ion Ratio Lower Upper
202 100
200 20.6 16.6 25.0
203 17.8 14.3 21.5



#31
Terphenyl-d14
Concen: 5.477 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.005 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:244 Resp: 63100
Ion Ratio Lower Upper
244 100
212 8.7 8.2 12.2
122 16.0 13.2 19.8

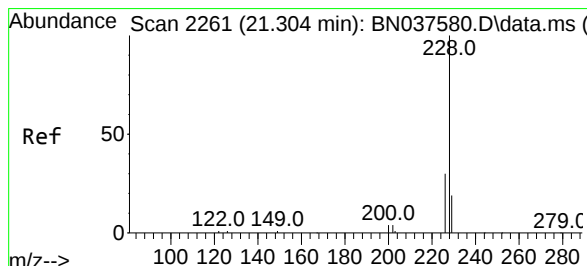
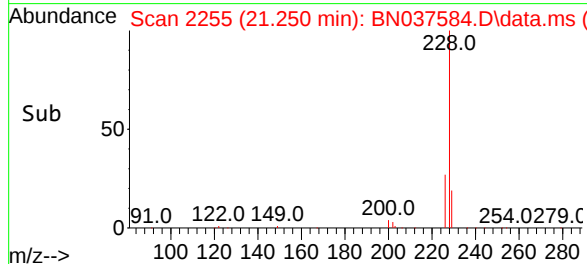
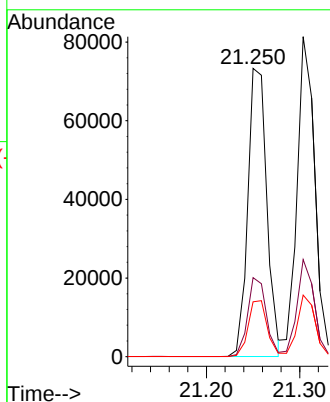
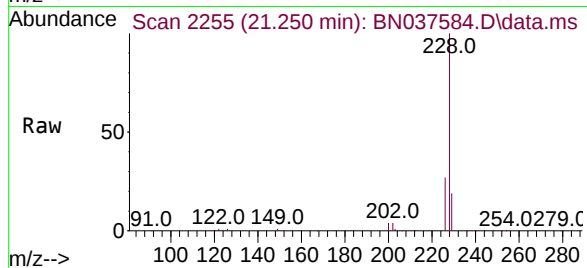




#32
Benzo(a)anthracene
Concen: 5.564 ng
RT: 21.250 min Scan# 2125
Delta R.T. -0.009 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

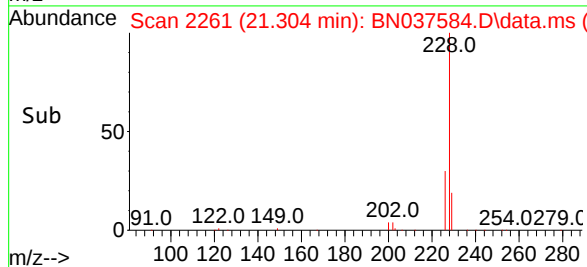
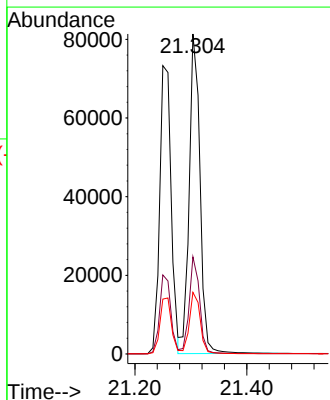
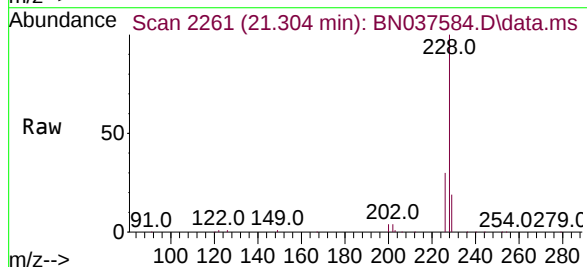
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

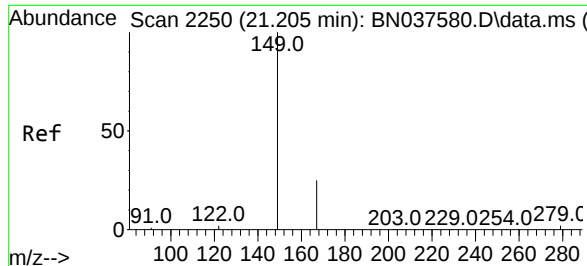
Tgt Ion:228 Resp: 104084
Ion Ratio Lower Upper
228 100
226 27.4 21.5 32.3
229 19.0 16.5 24.7



#33
Chrysene
Concen: 5.207 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:228 Resp: 108554
Ion Ratio Lower Upper
228 100
226 30.4 24.9 37.3
229 19.2 15.8 23.8

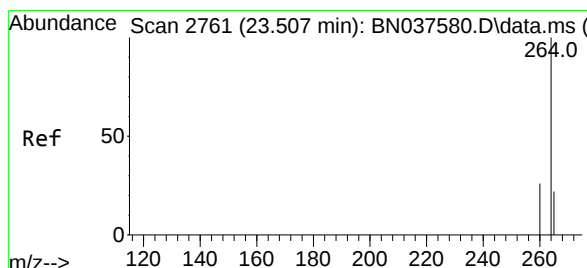
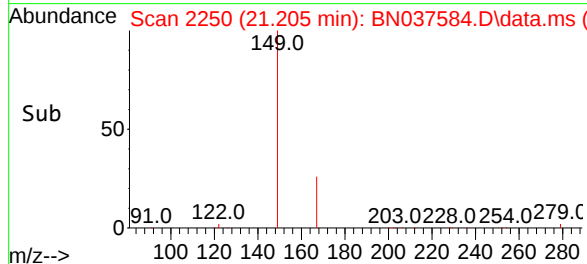
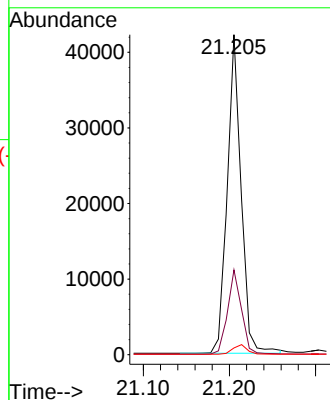
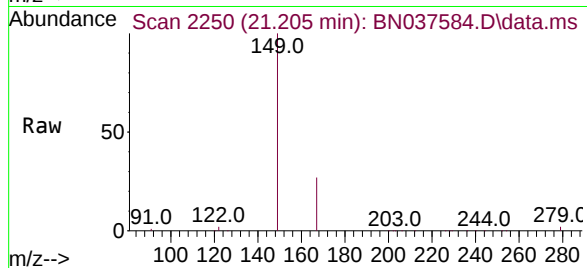




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.087 ng
RT: 21.205 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

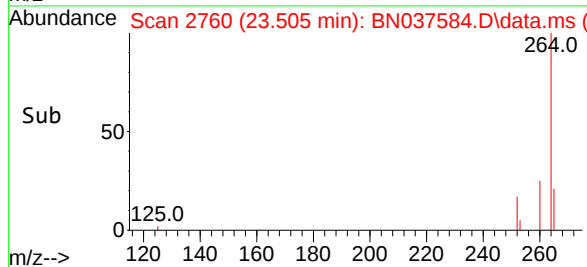
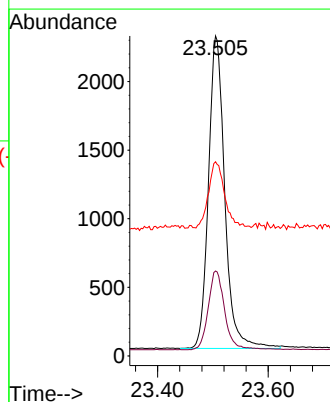
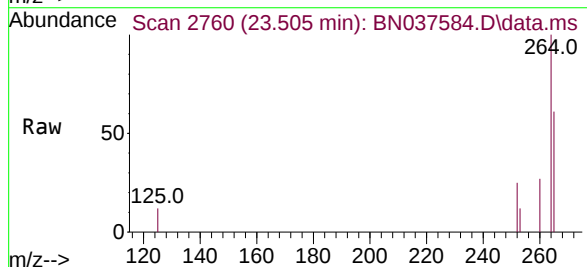
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

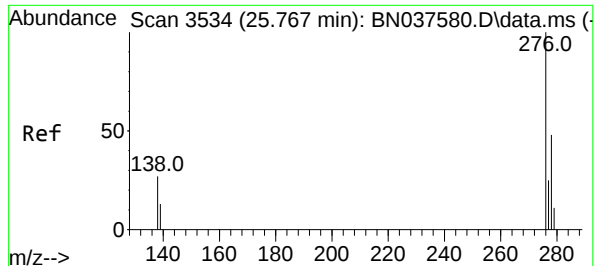
Tgt Ion:149 Resp: 46994
Ion Ratio Lower Upper
149 100
167 26.4 20.5 30.7
279 3.1 2.6 4.0



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.505 min Scan# 2760
Delta R.T. -0.003 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:264 Resp: 4653
Ion Ratio Lower Upper
264 100
260 26.5 21.6 32.4
265 60.7 48.2 72.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.965 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

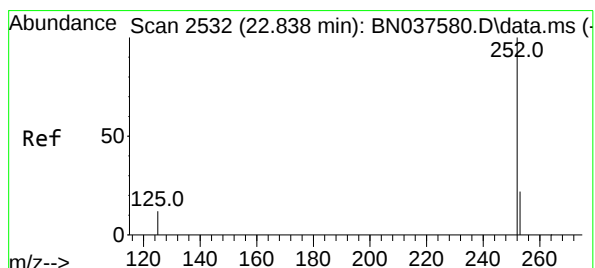
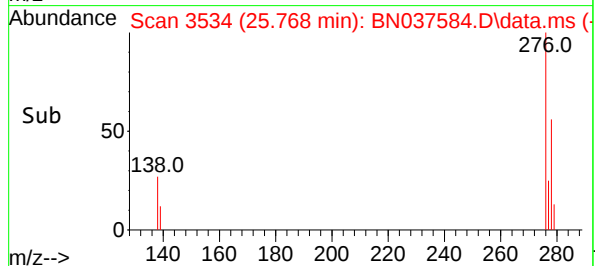
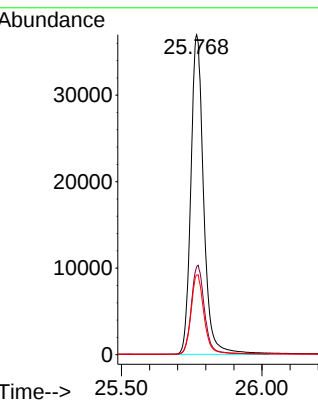
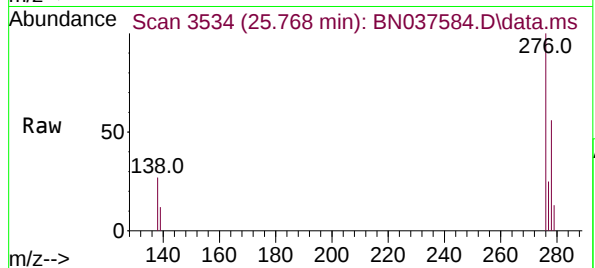
Tgt Ion:276 Resp: 116962

Ion Ratio Lower Upper

276 100

138 28.5 23.3 34.9

277 25.2 19.5 29.3



#37

Benzo(b)fluoranthene

Concen: 6.019 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

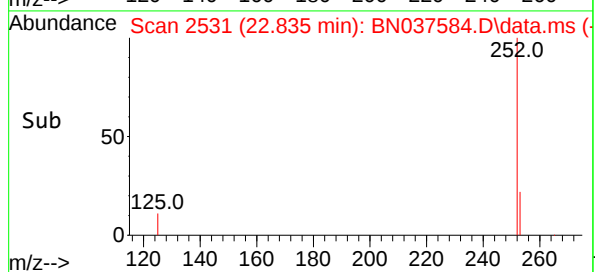
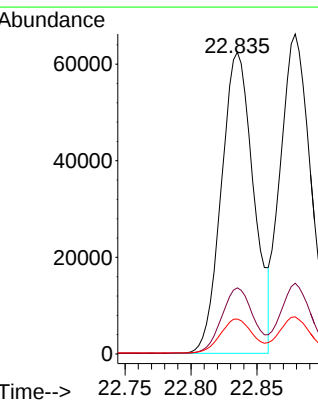
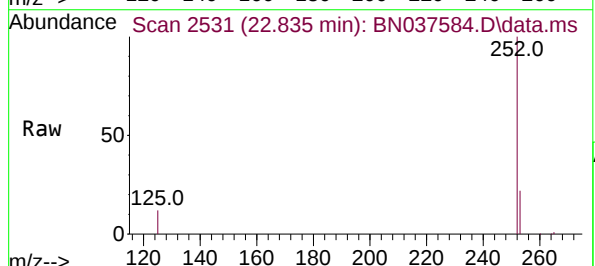
Tgt Ion:252 Resp: 106138

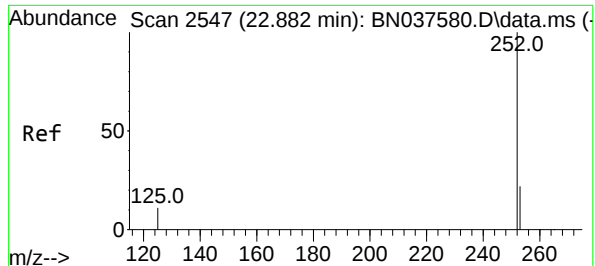
Ion Ratio Lower Upper

252 100

253 21.9 20.0 30.0

125 11.6 13.8 20.6#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 22.879 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037584.D

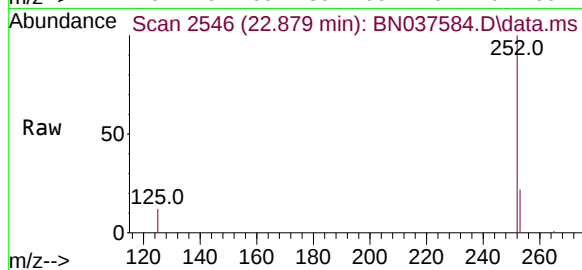
Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



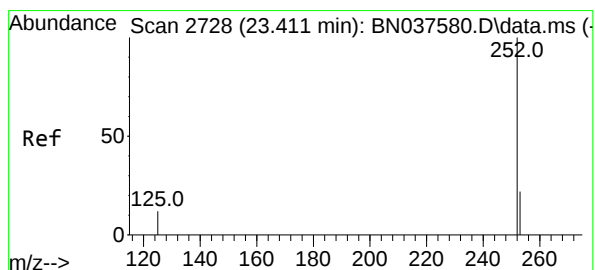
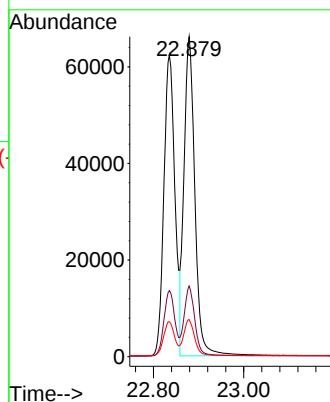
Tgt Ion:252 Resp: 110373

Ion Ratio Lower Upper

252 100

253 22.1 19.9 29.9

125 11.6 15.0 22.6#



#39

Benzo(a)pyrene

Concen: 5.997 ng

RT: 23.408 min Scan# 2727

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

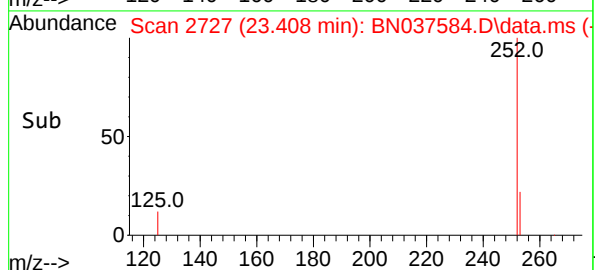
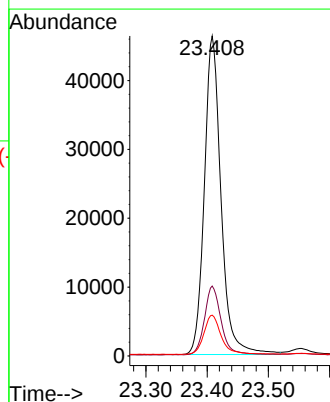
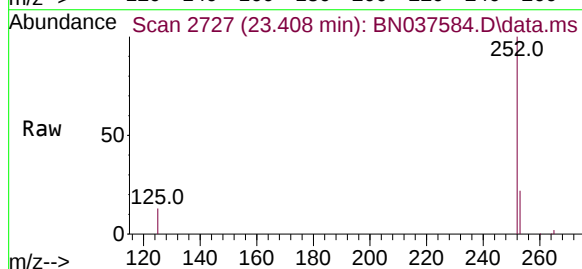
Tgt Ion:252 Resp: 87699

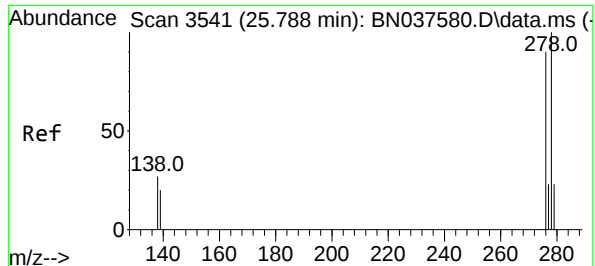
Ion Ratio Lower Upper

252 100

253 21.8 21.6 32.4

125 12.8 16.8 25.2#





#40

Dibenzo(a,h)anthracene

Concen: 6.197 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.006 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

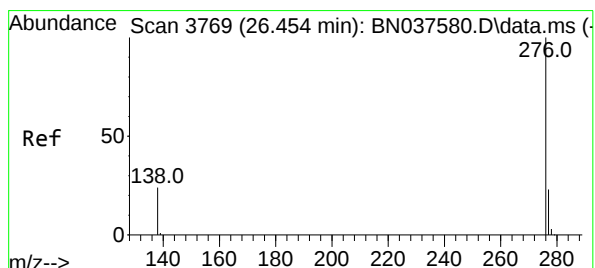
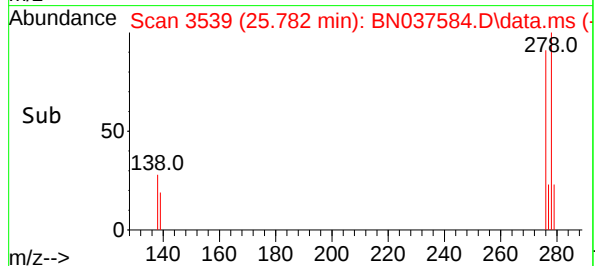
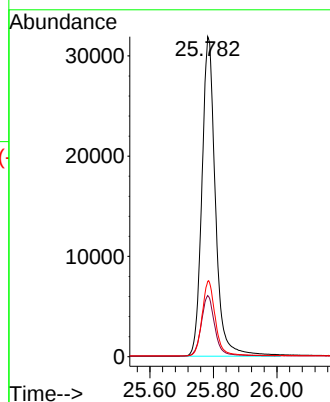
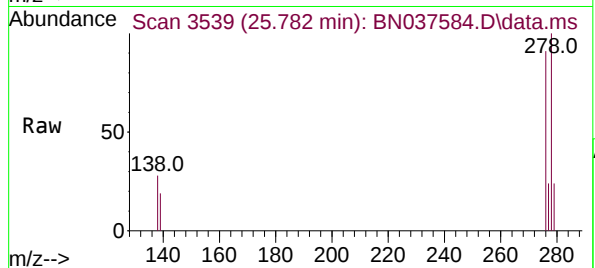
Tgt Ion:278 Resp: 94267

Ion Ratio Lower Upper

278 100

139 19.1 18.3 27.5

279 23.6 22.5 33.7



#41

Benzo(g,h,i)perylene

Concen: 5.960 ng

RT: 26.458 min Scan# 3770

Delta R.T. 0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

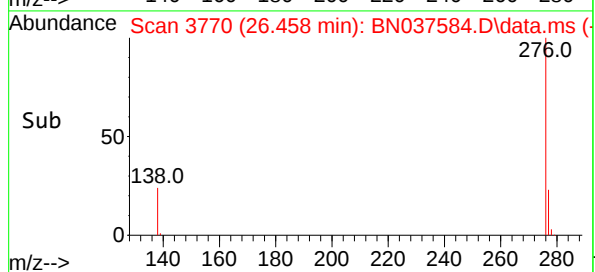
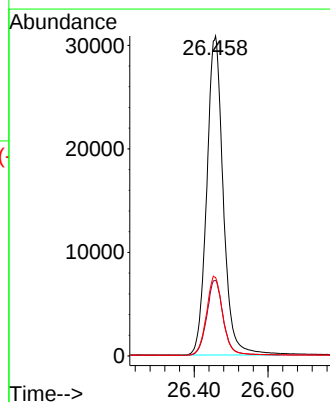
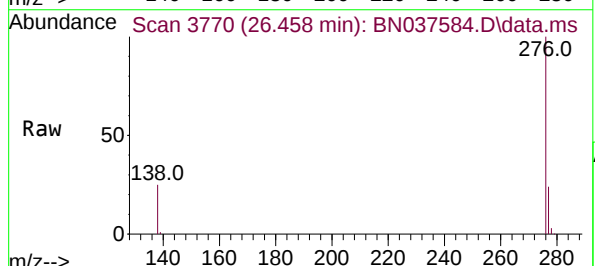
Tgt Ion:276 Resp: 95537

Ion Ratio Lower Upper

276 100

277 23.6 21.0 31.4

138 24.5 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037585.D
 Acq On : 12 Aug 2025 20:42
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081225

Quant Time: Aug 13 05:03:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1850	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4517	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2241	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4564	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4001	0.400	ng	# 0.00
35) Perylene-d12	23.511	264	3490	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1785	0.426	ng	0.00
5) Phenol-d6	6.880	99	2272	0.450	ng	0.00
8) Nitrobenzene-d5	8.854	82	1408	0.443	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	2611	0.425	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	358	0.365	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	5746	0.443	ng	0.00
27) Fluoranthene-d10	19.118	212	4866	0.405	ng	0.00
31) Terphenyl-d14	19.727	244	3884	0.472	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.240	88	889	0.502	ng	99
3) n-Nitrosodimethylamine	3.543	42	1054	0.466	ng	98
6) bis(2-Chloroethyl)ether	7.140	93	1993	0.438	ng	99
9) Naphthalene	10.552	128	4985	0.415	ng	100
10) Hexachlorobutadiene	10.851	225	1259	0.429	ng	# 100
12) 2-Methylnaphthalene	12.167	142	2809	0.372	ng	98
16) Acenaphthylene	14.067	152	4504	0.448	ng	99
17) Acenaphthene	14.409	154	2768	0.405	ng	99
18) Fluorene	15.393	166	3592	0.402	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	209	0.433	ng	97
21) 4-Bromophenyl-phenylether	16.292	248	1147	0.400	ng	98
22) Hexachlorobenzene	16.404	284	1702	0.419	ng	99
23) Atrazine	16.553	200	681	0.420	ng	98
24) Pentachlorophenol	16.739	266	484	0.339	ng	96
25) Phenanthrene	17.124	178	5612	0.404	ng	100
26) Anthracene	17.223	178	4939	0.402	ng	99
28) Fluoranthene	19.150	202	6097	0.382	ng	100
30) Pyrene	19.513	202	5925	0.396	ng	100
32) Benzo(a)anthracene	21.259	228	5497	0.411	ng	100
33) Chrysene	21.304	228	6035	0.405	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	2306	0.418	ng	99
36) Indeno(1,2,3-cd)pyrene	25.765	276	6028	0.410	ng	99
37) Benzo(b)fluoranthene	22.835	252	5410	0.409	ng	99
38) Benzo(k)fluoranthene	22.879	252	6026	0.404	ng	99
39) Benzo(a)pyrene	23.408	252	4761	0.434	ng	99
40) Dibenzo(a,h)anthracene	25.788	278	4571	0.401	ng	100
41) Benzo(g,h,i)perylene	26.458	276	4888	0.407	ng	99

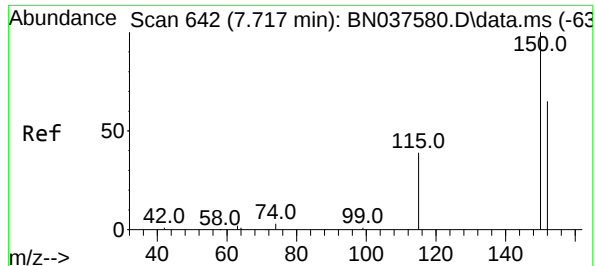
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_N
ClientSampleId :
ICVBN081225

Abundance

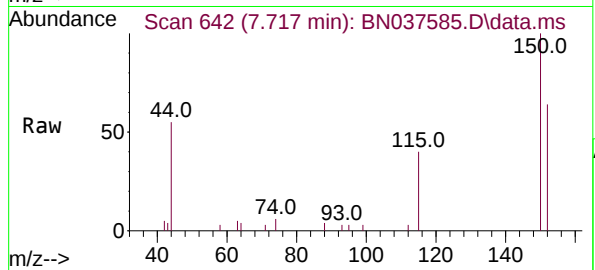
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Time-->

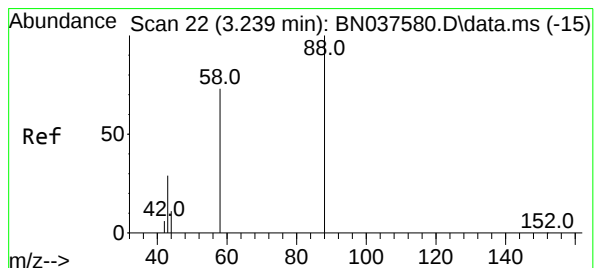
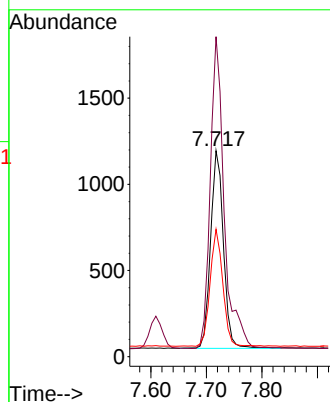
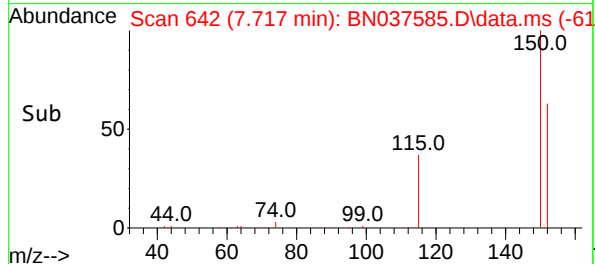


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Instrument :
BNA_N
ClientSampleId :
ICVBN081225

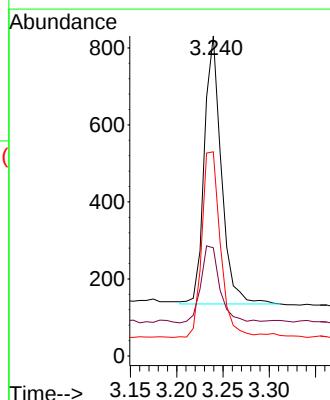
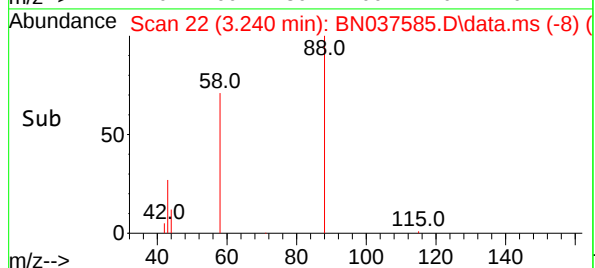
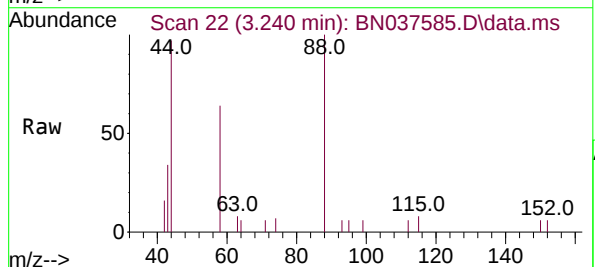


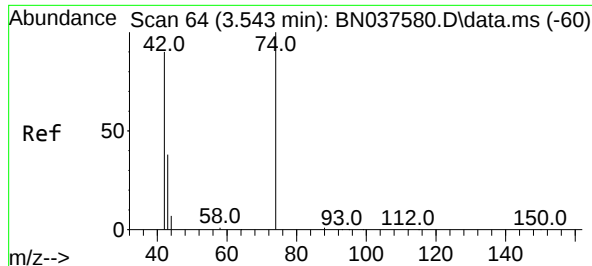
Tgt Ion:152 Resp: 1850
Ion Ratio Lower Upper
152 100
150 155.4 122.2 183.4
115 61.8 49.8 74.6



#2
1,4-Dioxane
Concen: 0.502 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion: 88 Resp: 889
Ion Ratio Lower Upper
88 100
43 32.6 25.8 38.6
58 76.0 61.2 91.8

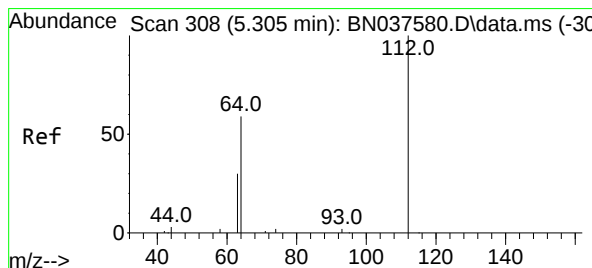
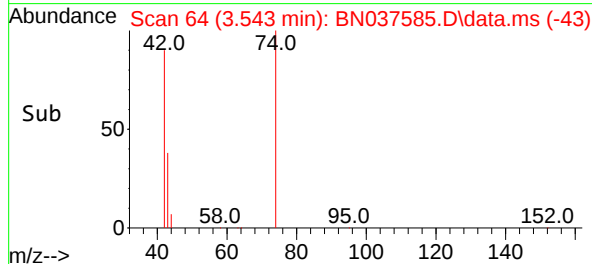
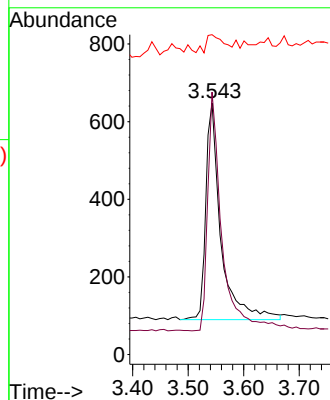
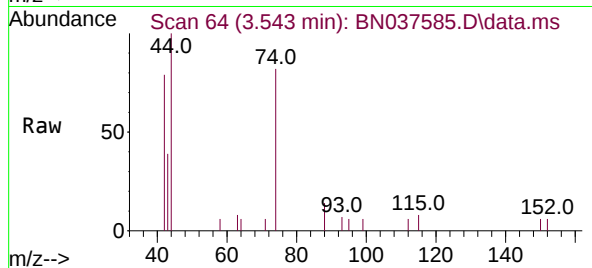




#3
n-Nitrosodimethylamine
Concen: 0.466 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

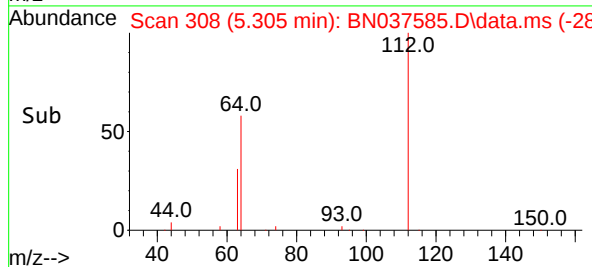
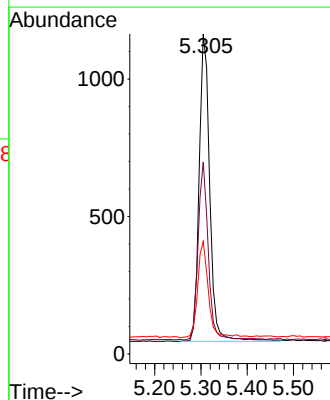
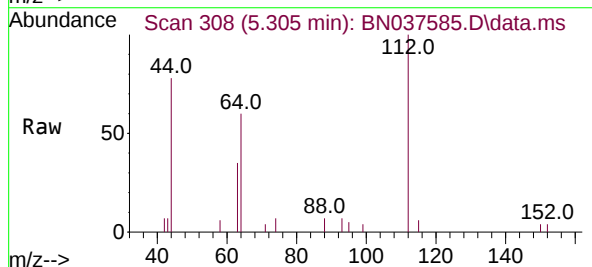
Instrument :
BNA_N
ClientSampleId :
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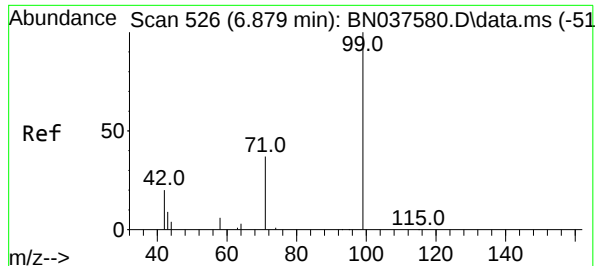
Tgt Ion: 42 Resp: 1054
Ion Ratio Lower Upper
42 100
74 104.6 82.0 123.0
44 9.7 7.9 11.9



#4
2-Fluorophenol
Concen: 0.426 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion: 112 Resp: 1785
Ion Ratio Lower Upper
112 100
64 55.4 44.9 67.3
63 31.3 23.4 35.2

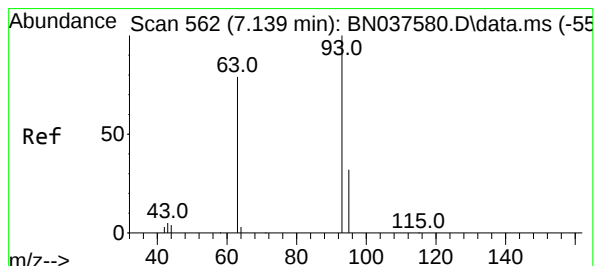
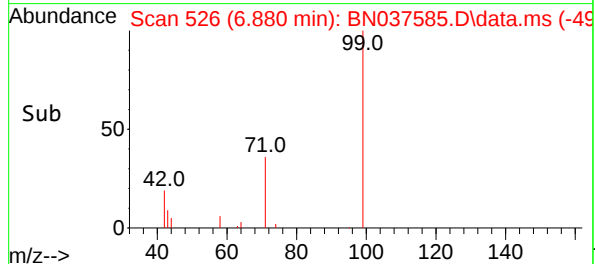
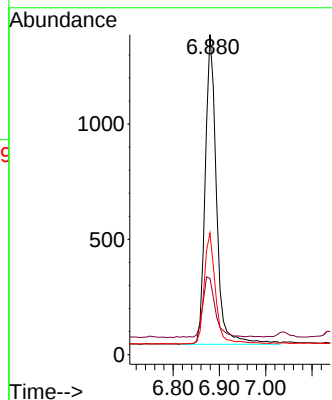
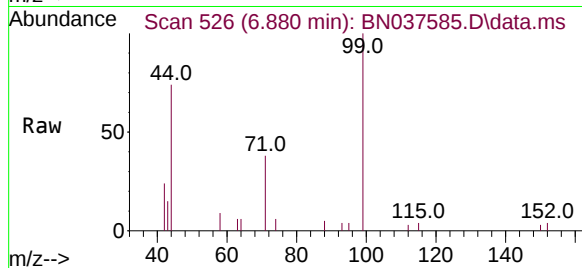




#5
Phenol-d6
Concen: 0.450 ng
RT: 6.880 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

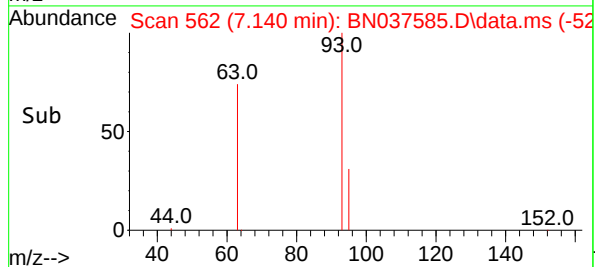
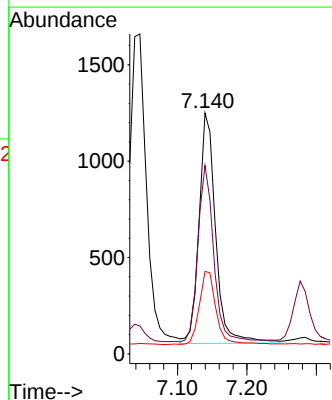
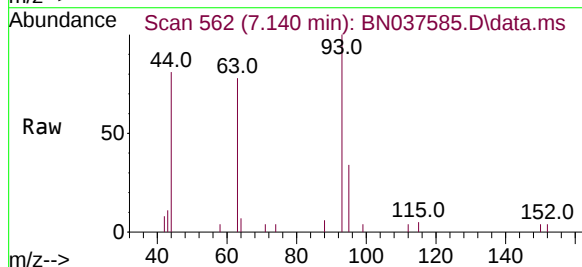
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

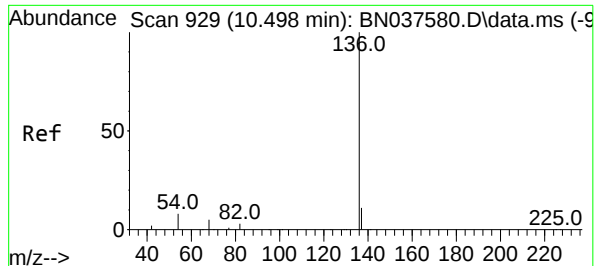
Tgt Ion: 99 Resp: 2272
Ion Ratio Lower Upper
99 100
42 21.9 18.5 27.7
71 35.6 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.438 ng
RT: 7.140 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion: 93 Resp: 1993
Ion Ratio Lower Upper
93 100
63 72.5 58.0 87.0
95 32.1 24.9 37.3

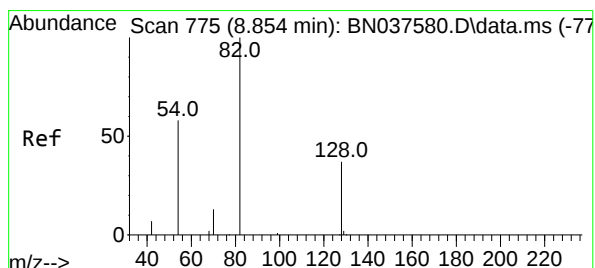
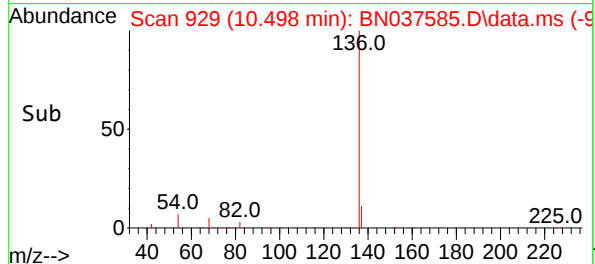
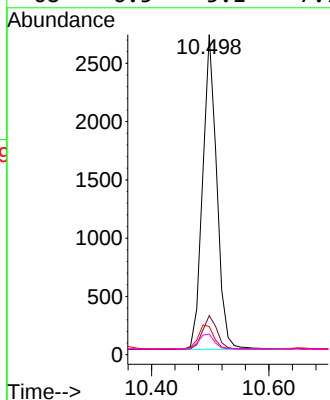
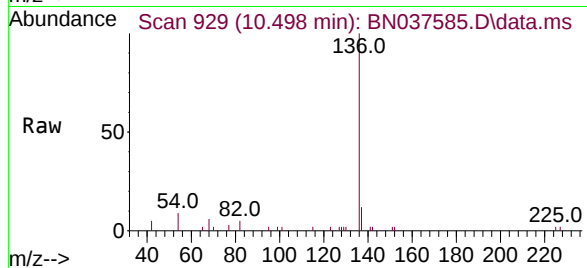




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

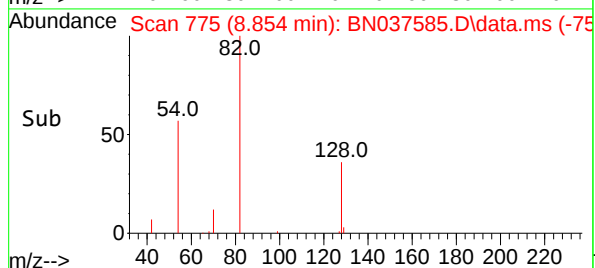
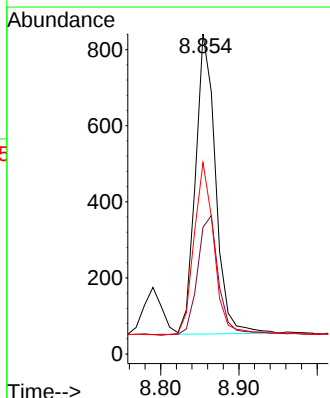
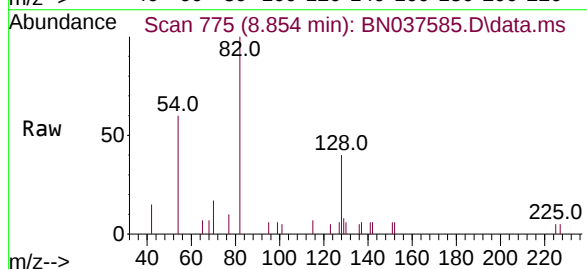
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

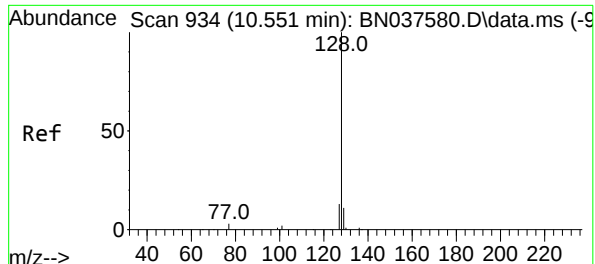
Tgt Ion:	136	Resp:	4517
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	8.8	7.3	10.9
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.443 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:	82	Resp:	1408
Ion	Ratio	Lower	Upper
82	100		
128	39.6	32.6	48.8
54	59.8	48.9	73.3

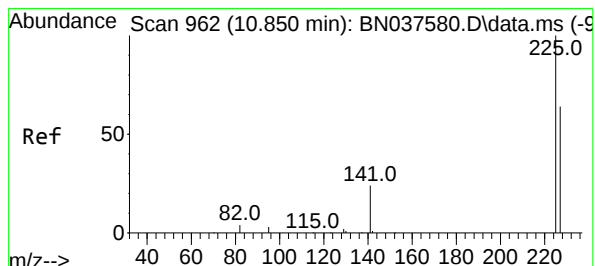
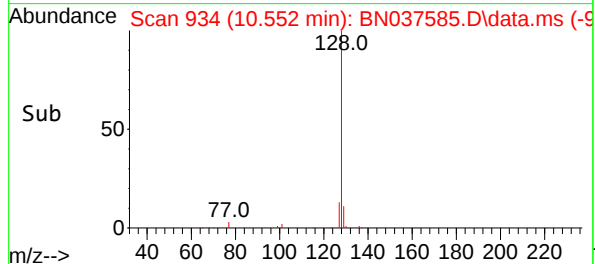
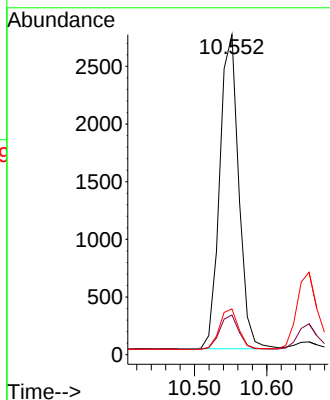
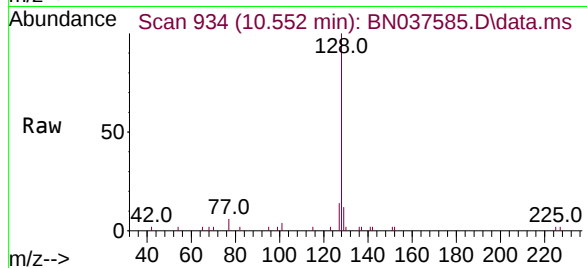




#9
Naphthalene
Concen: 0.415 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

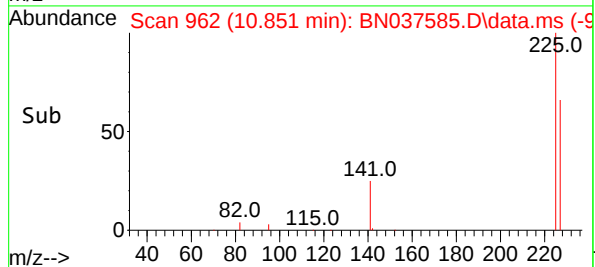
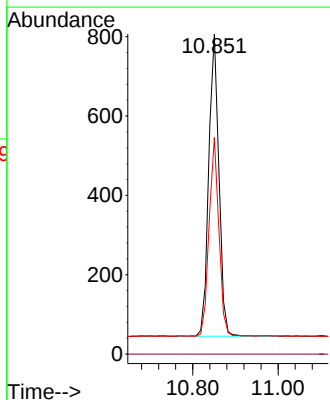
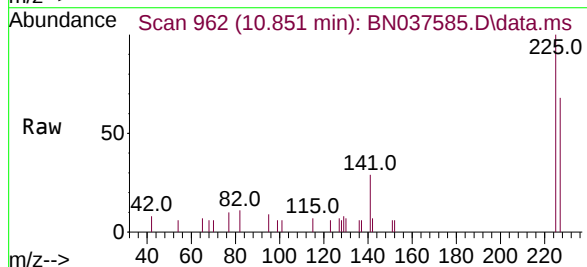
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ClientSampleId :
ICVBN081225

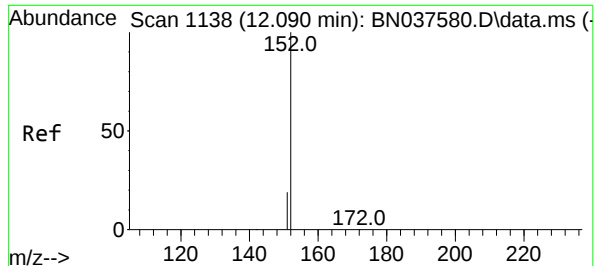
Tgt Ion:	128	Resp:	4985
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.3	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.429 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:	225	Resp:	1259
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.8	76.2

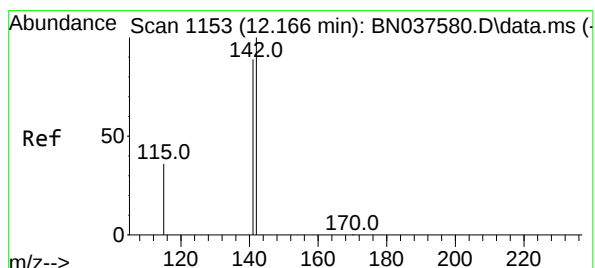
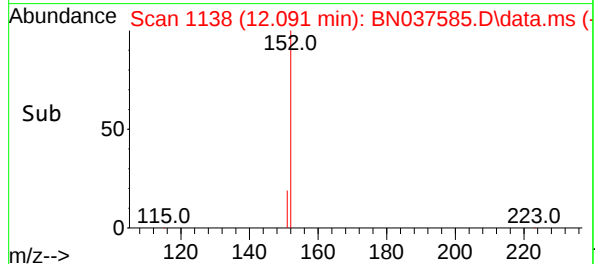
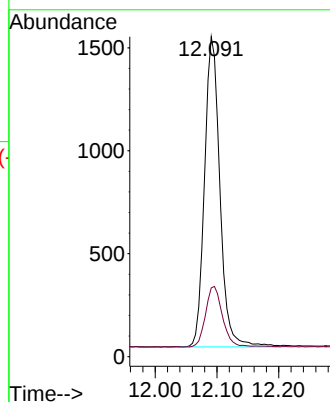
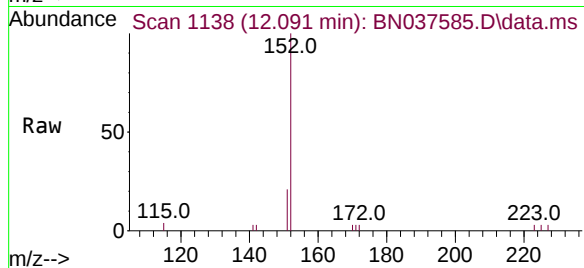




#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

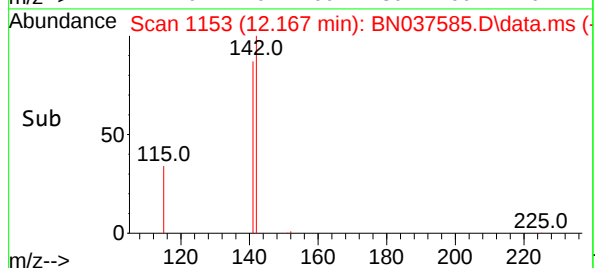
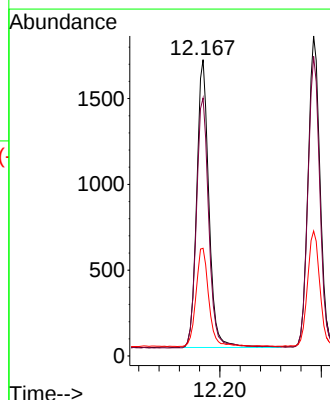
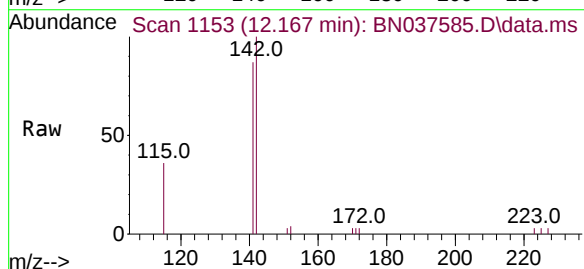
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

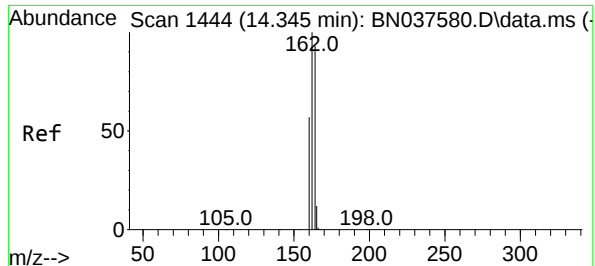
Tgt Ion:152 Resp: 2611
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:142 Resp: 2809
Ion Ratio Lower Upper
142 100
141 87.0 71.4 107.0
115 36.4 30.2 45.4

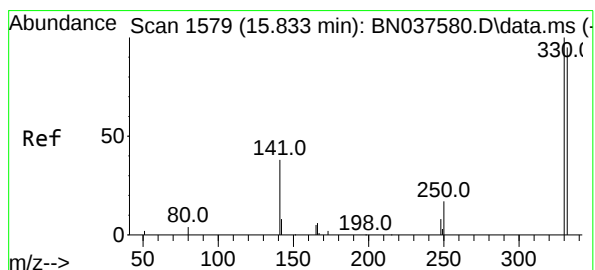
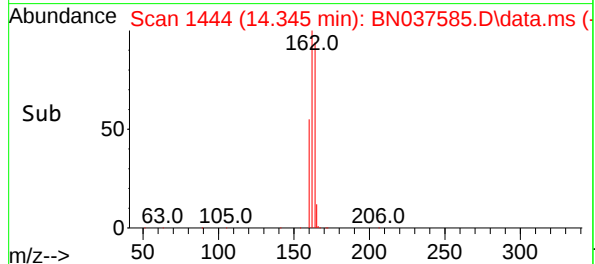
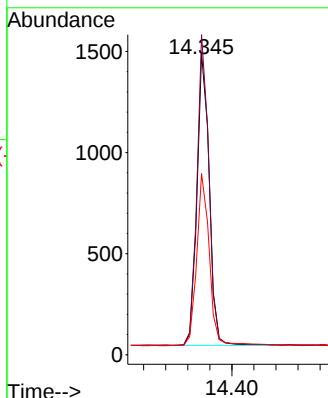
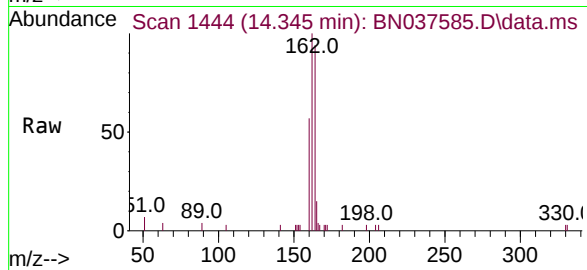




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

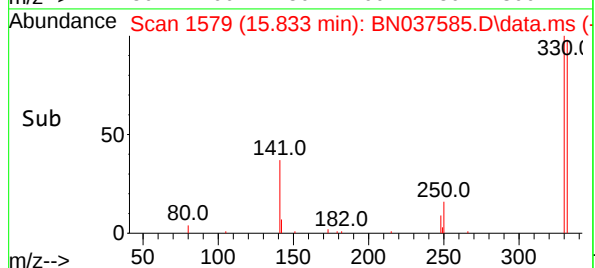
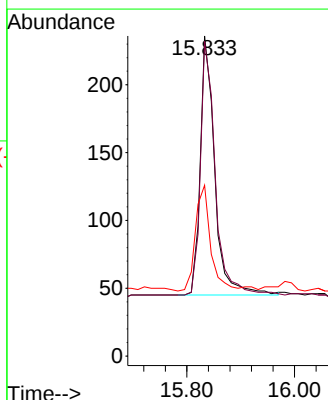
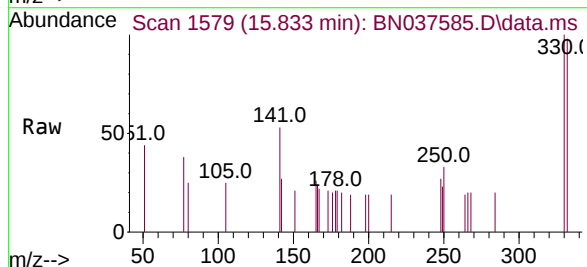
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

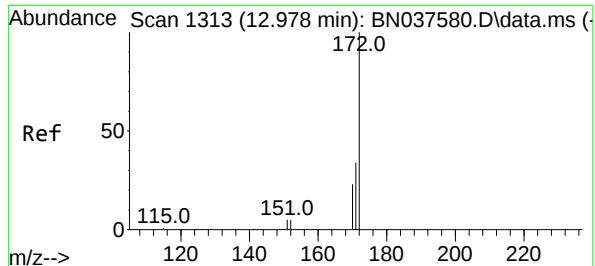
Tgt Ion:164 Resp: 2241
Ion Ratio Lower Upper
164 100
162 106.2 85.5 128.3
160 60.1 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:330 Resp: 358
Ion Ratio Lower Upper
330 100
332 99.7 77.4 116.0
141 42.7 30.9 46.3

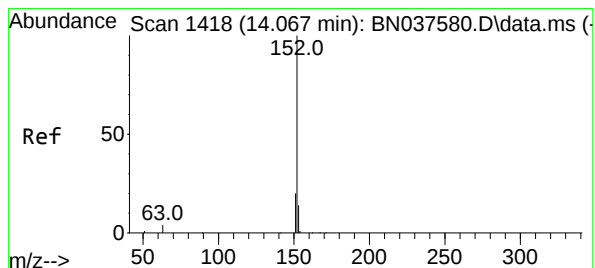
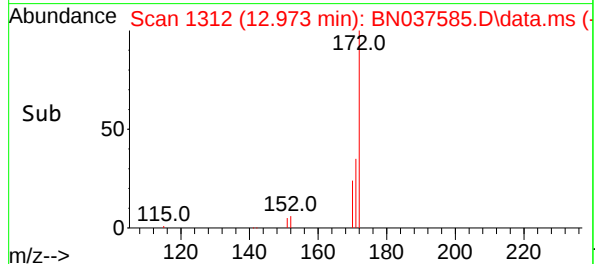
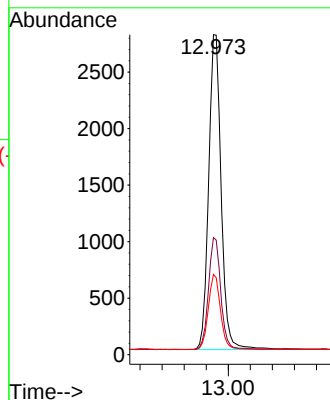
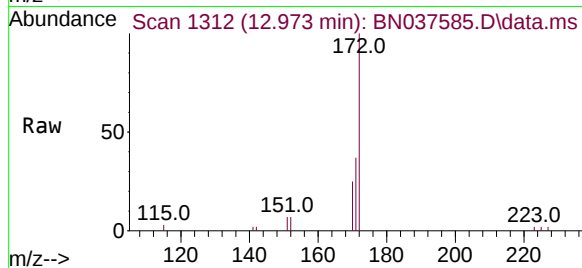




#15
2-Fluorobiphenyl
Concen: 0.443 ng
RT: 12.973 min Scan# 1312
Delta R.T. -0.005 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

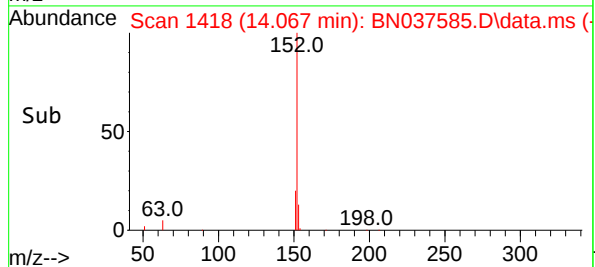
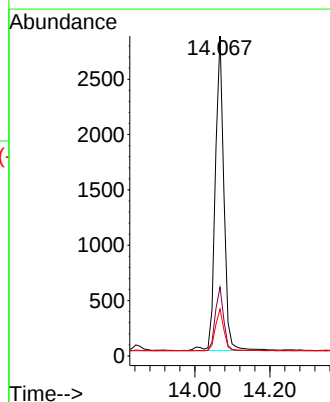
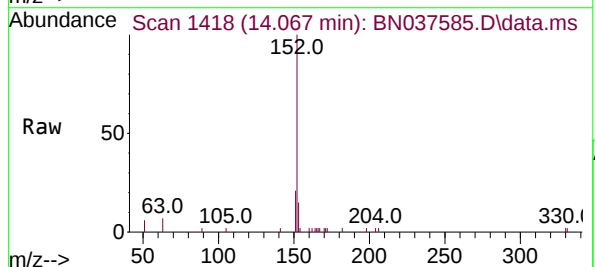
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

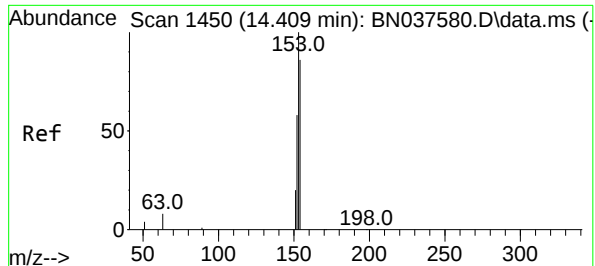
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.2	42.4
170	25.1	19.2	28.8



#16
Acenaphthylene
Concen: 0.448 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	13.1	10.7	16.1

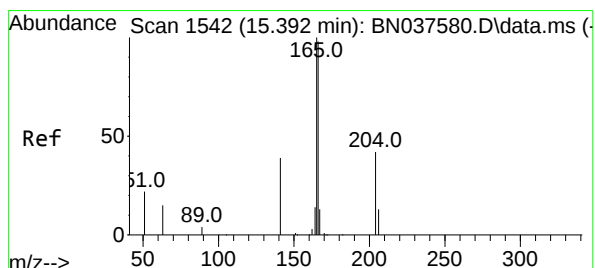
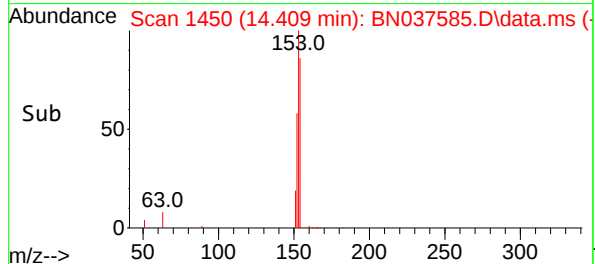
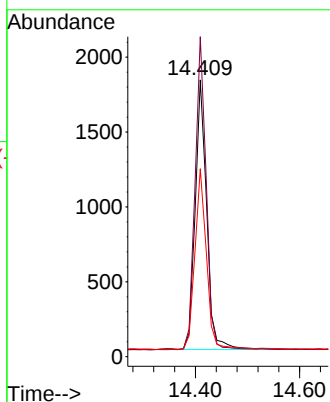
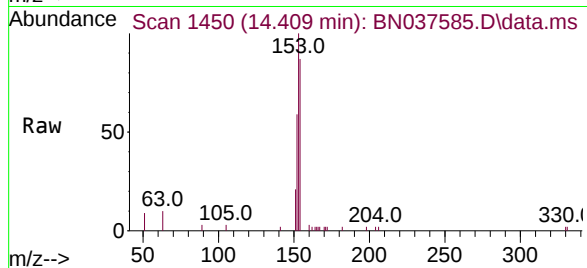




#17
Acenaphthene
Concen: 0.405 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

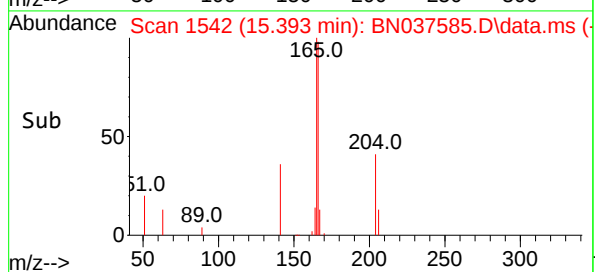
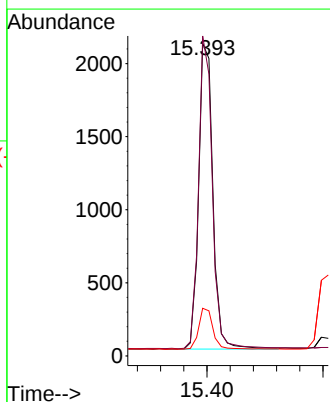
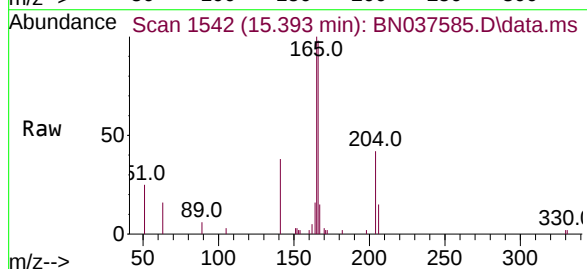
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

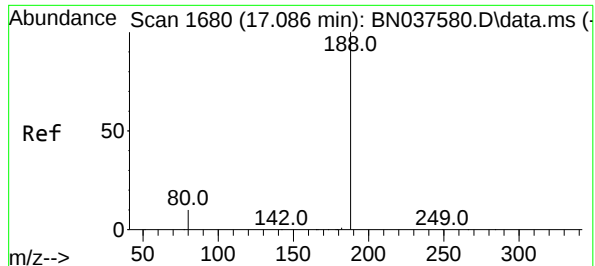
Tgt Ion:154 Resp: 2768
Ion Ratio Lower Upper
154 100
153 112.4 90.6 135.8
152 67.8 54.9 82.3



#18
Fluorene
Concen: 0.402 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:166 Resp: 3592
Ion Ratio Lower Upper
166 100
165 100.0 78.9 118.3
167 14.0 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

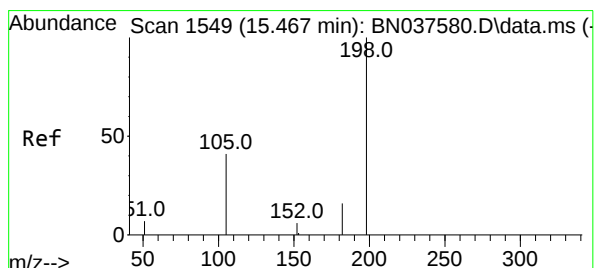
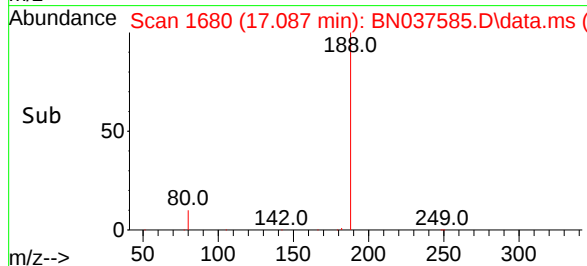
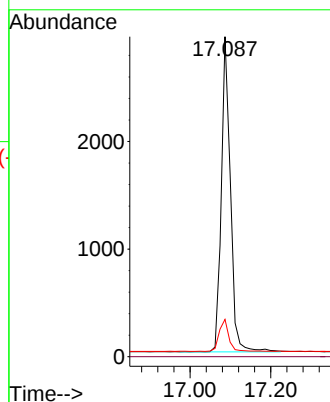
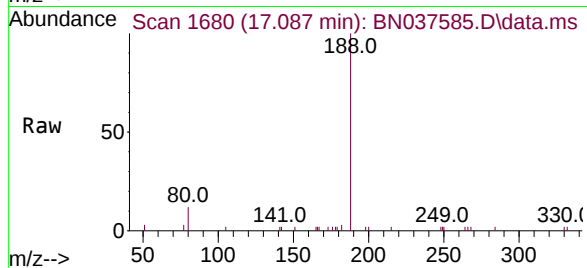
Tgt Ion:188 Resp: 4564

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.6 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

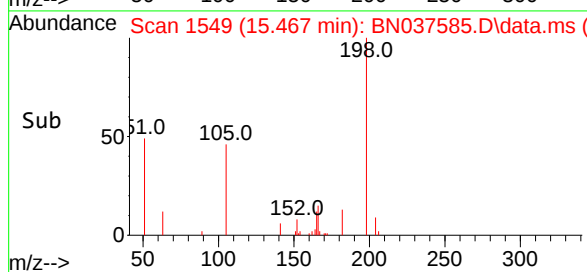
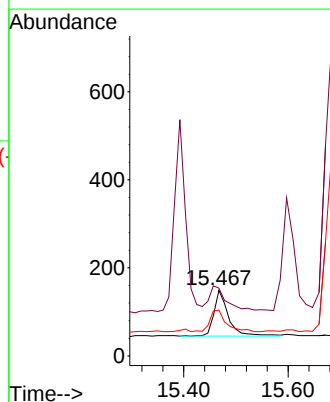
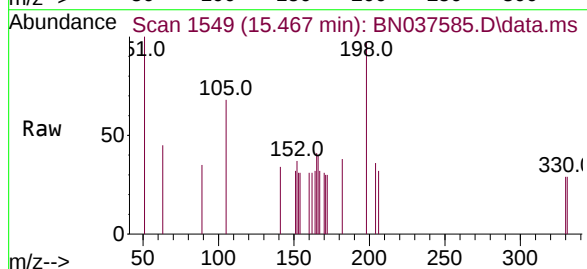
Tgt Ion:198 Resp: 209

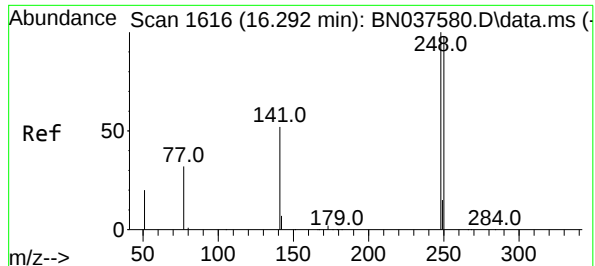
Ion Ratio Lower Upper

198 100

51 103.4 81.0 121.6

105 69.8 52.5 78.7

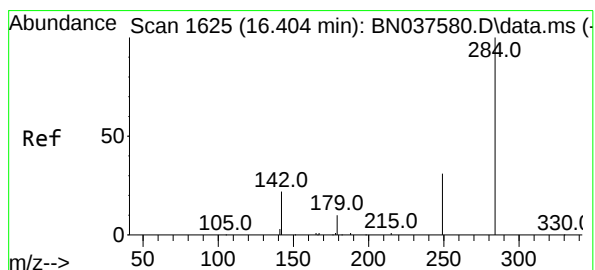
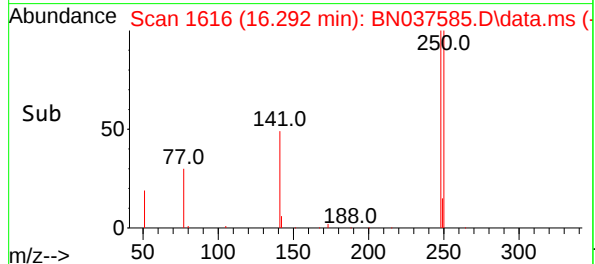
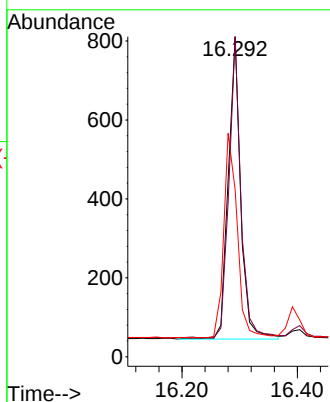
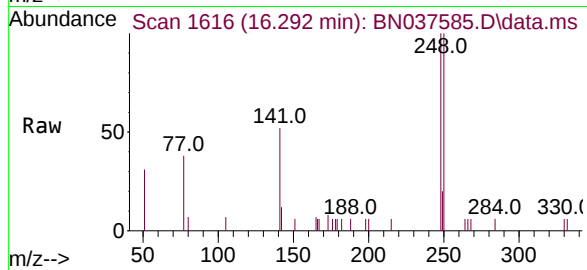




#21
4-Bromophenyl-phenylether
Concen: 0.400 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

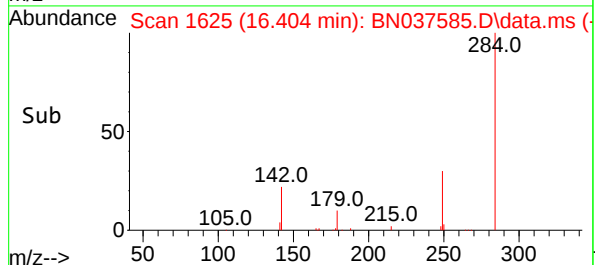
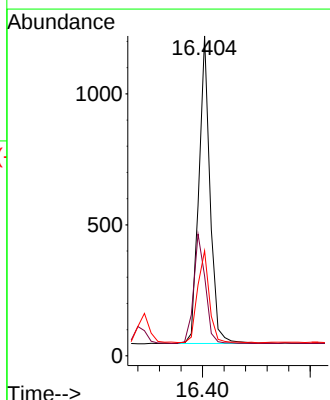
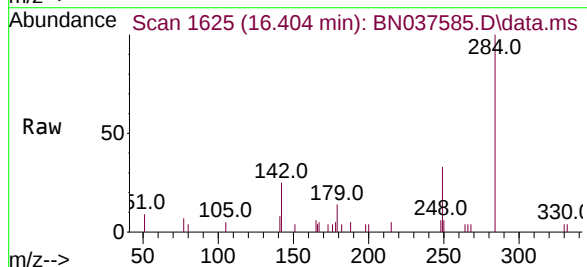
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

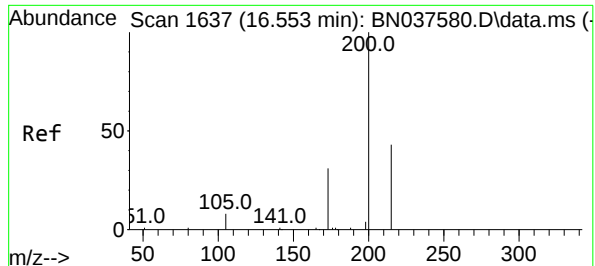
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.0	78.6	118.0
141	52.2	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.419 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.1	29.8	44.6
249	31.6	26.0	39.0

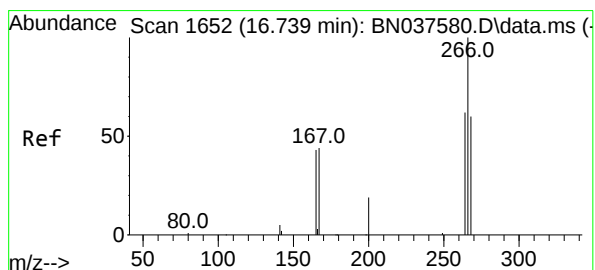
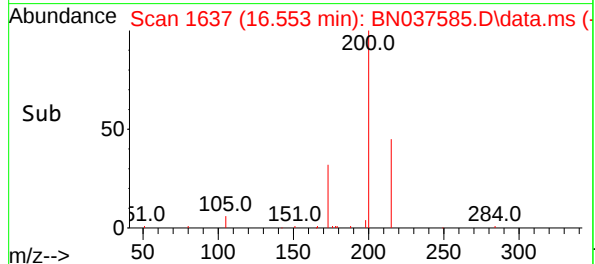
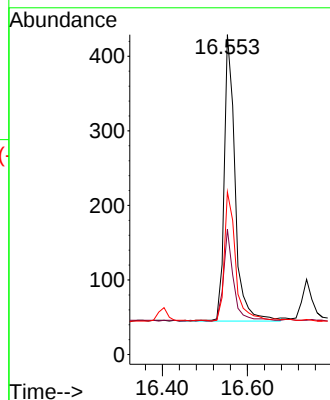
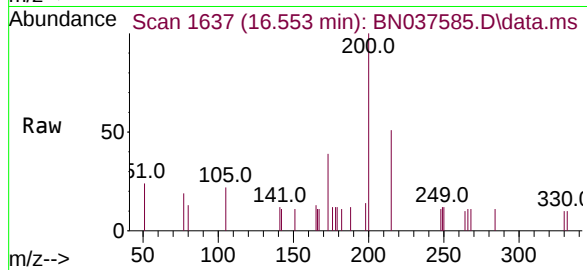




#23
Atrazine
Concen: 0.420 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

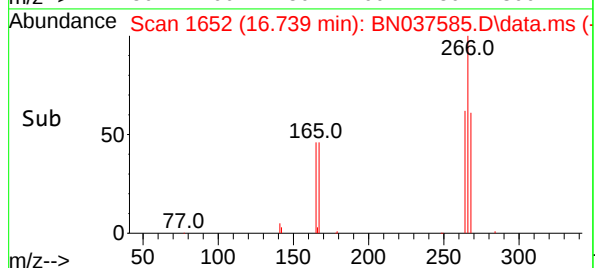
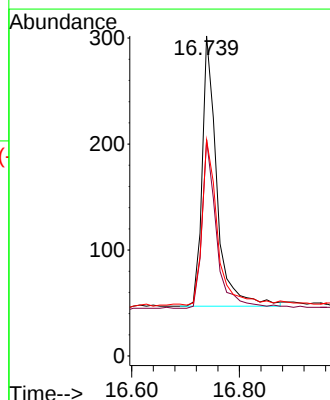
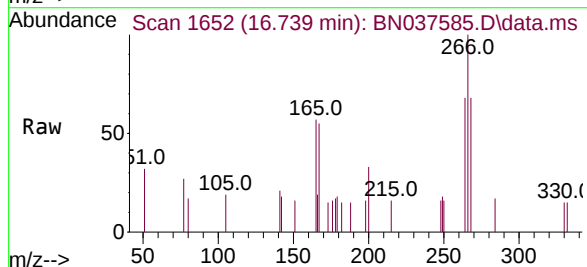
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

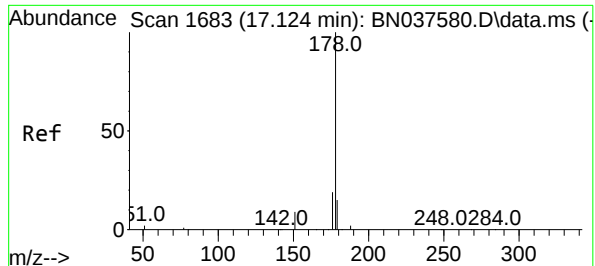
Tgt Ion	Ratio	Lower	Upper
200	100		
173	39.2	31.0	46.4
215	50.8	39.4	59.0



#24
Pentachlorophenol
Concen: 0.339 ng
RT: 16.739 min Scan# 1652
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.8	49.6	74.4
268	67.4	49.2	73.8

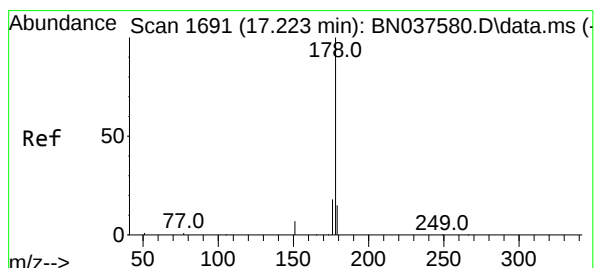
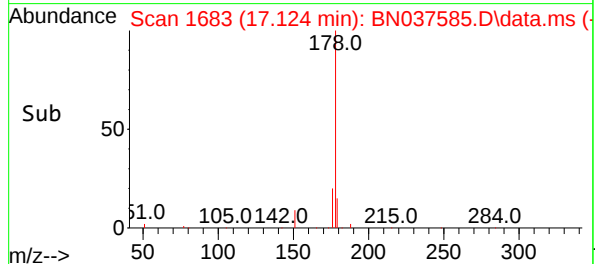
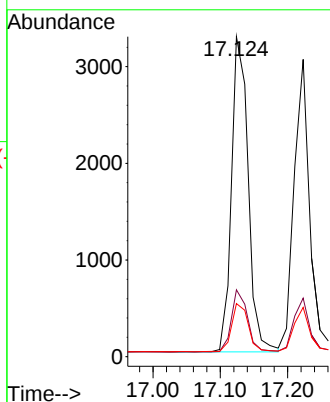
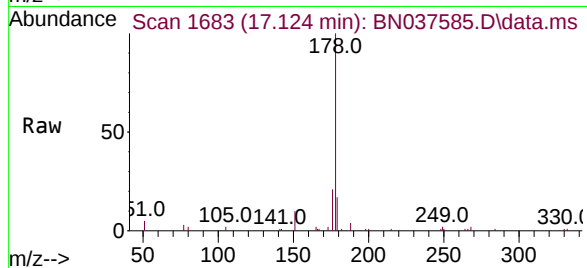




#25
Phenanthrene
Concen: 0.404 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

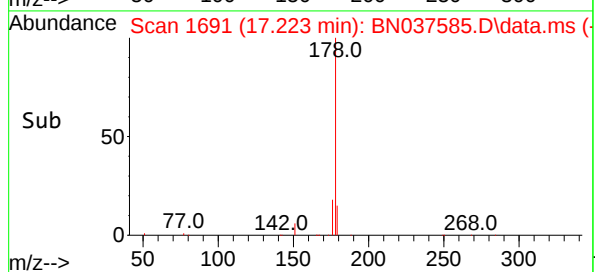
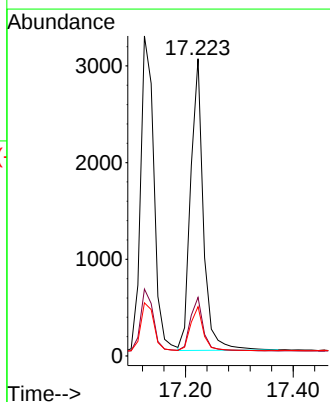
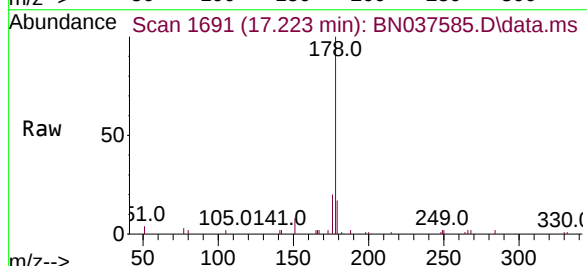
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

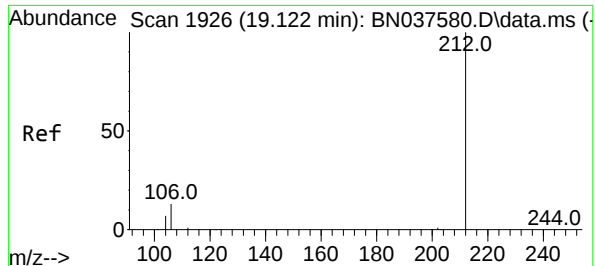
Tgt Ion:178 Resp: 5612
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.3 12.3 18.5



#26
Anthracene
Concen: 0.402 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:178 Resp: 4939
Ion Ratio Lower Upper
178 100
176 19.0 14.7 22.1
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.405 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

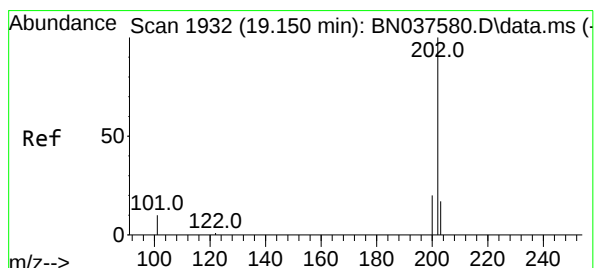
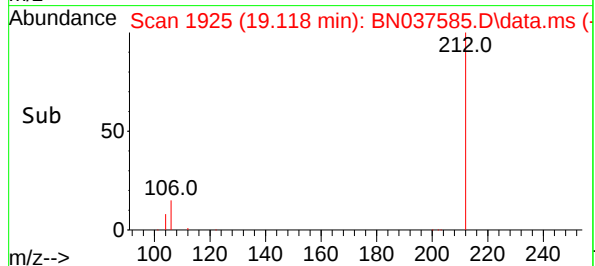
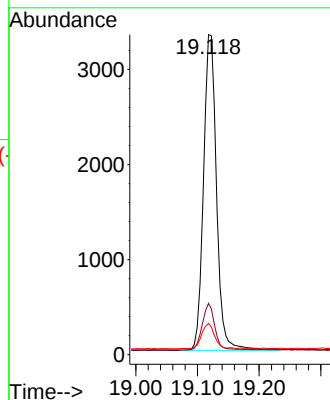
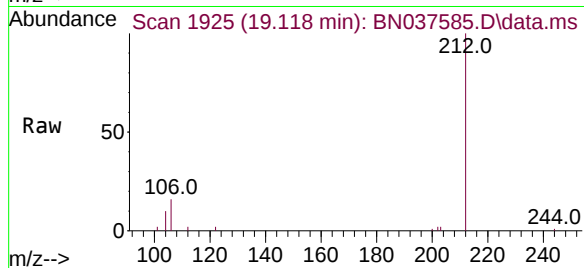
Tgt Ion:212 Resp: 4866

Ion Ratio Lower Upper

212 100

106 14.3 11.5 17.3

104 7.7 6.6 9.8



#28

Fluoranthene

Concen: 0.382 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

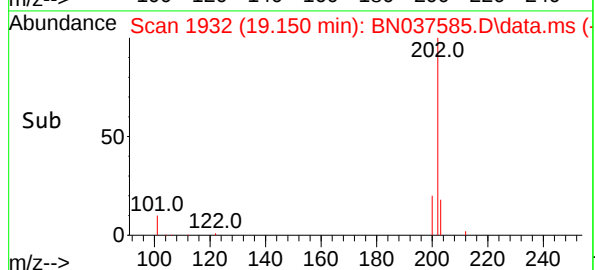
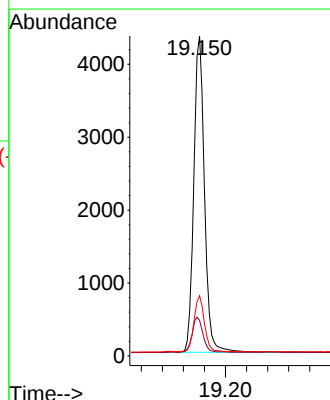
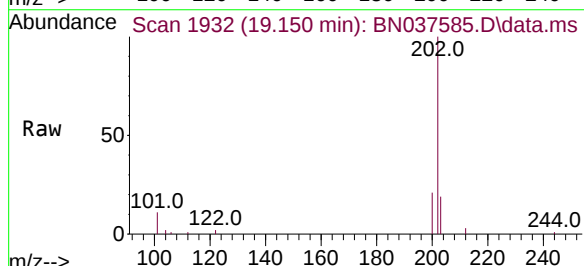
Tgt Ion:202 Resp: 6097

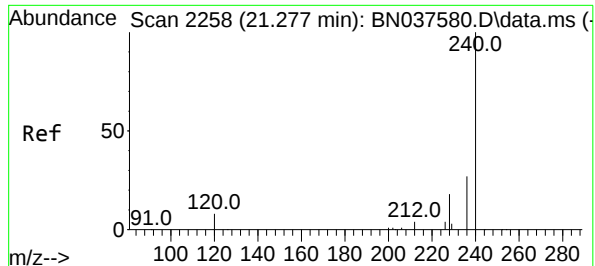
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037585.D

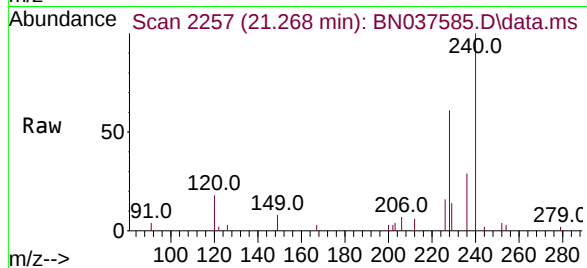
Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225



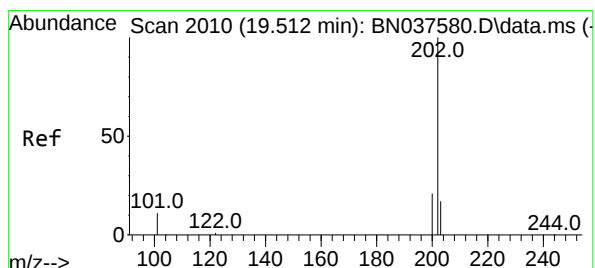
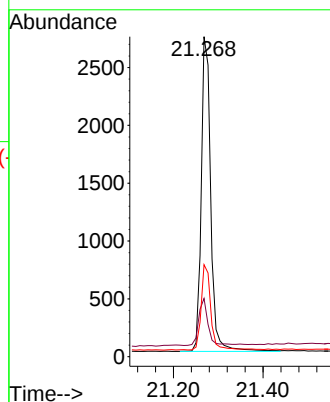
Tgt Ion:240 Resp: 4001

Ion Ratio Lower Upper

240 100

120 18.2 8.9 13.3#

236 28.8 22.6 33.8



#30

Pyrene

Concen: 0.396 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

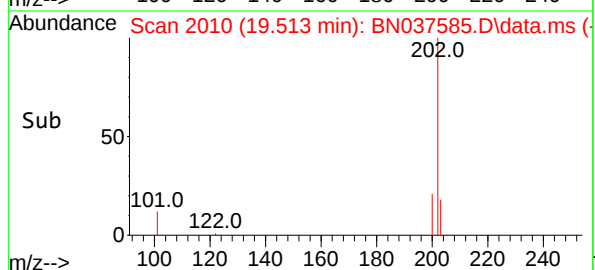
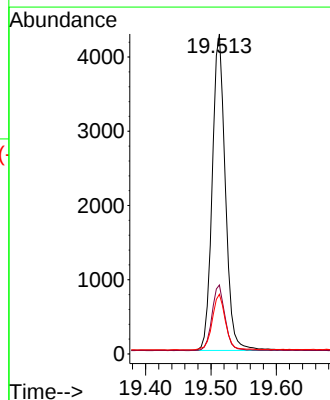
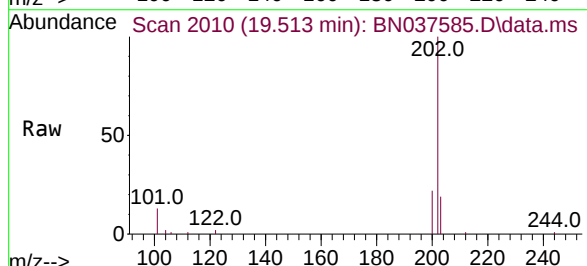
Tgt Ion:202 Resp: 5925

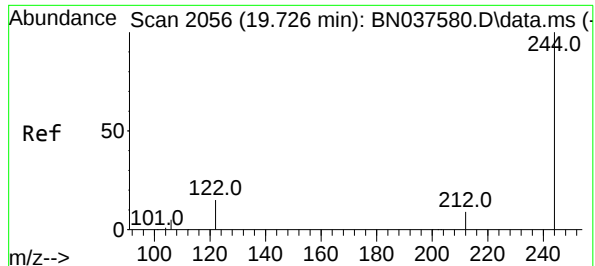
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

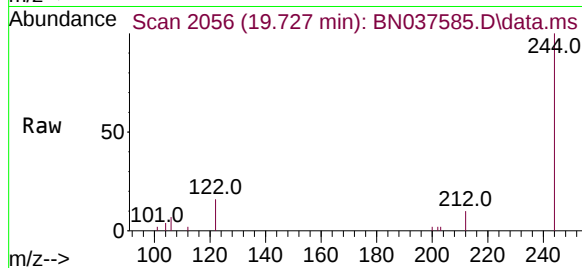
203 17.7 14.3 21.5



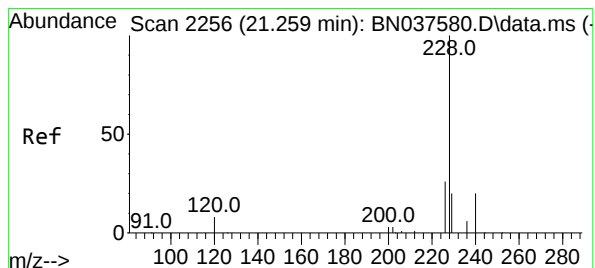
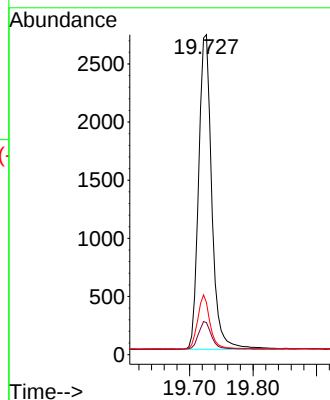


#31
Terphenyl-d14
Concen: 0.472 ng
RT: 19.727 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Instrument :
BNA_N
ClientSampleId :
ICVBN081225

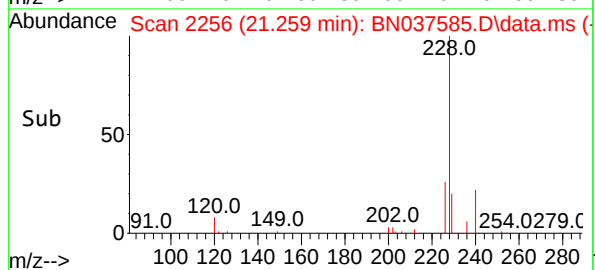
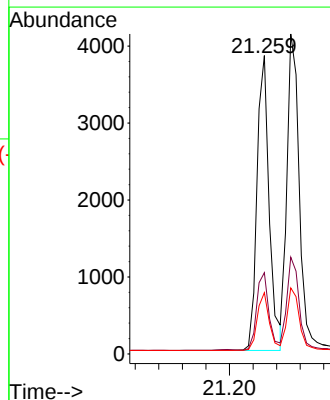
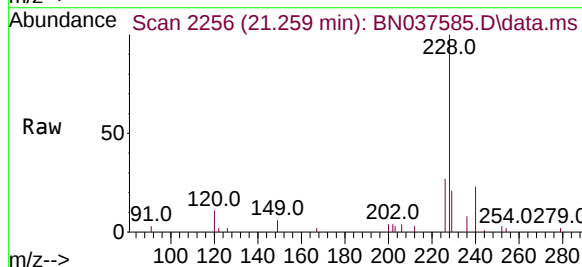


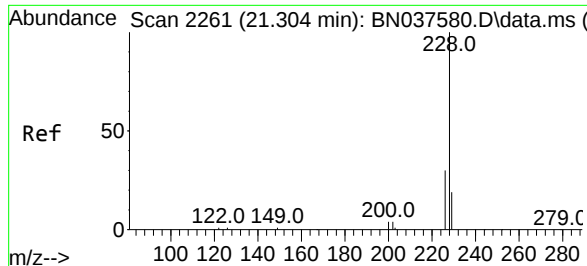
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.2	12.2
122	16.3	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.5	32.3
229	20.5	16.5	24.7





#33

Chrysene

Concen: 0.405 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

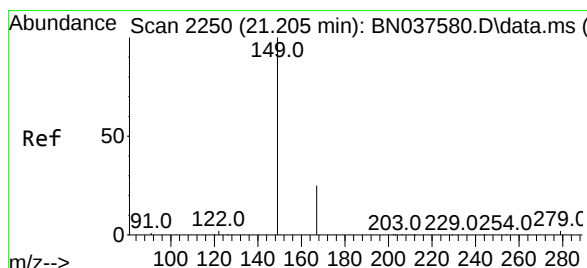
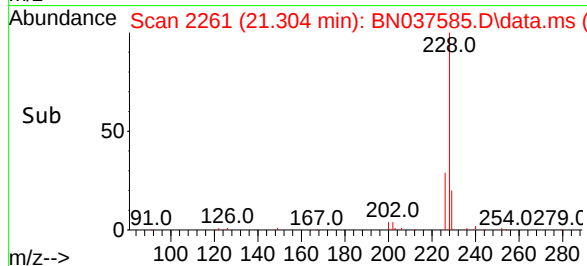
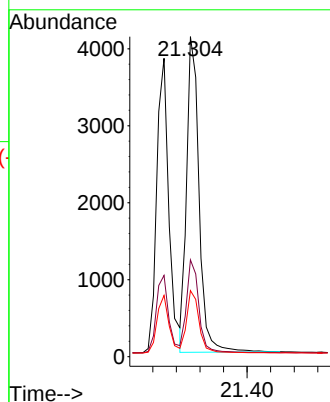
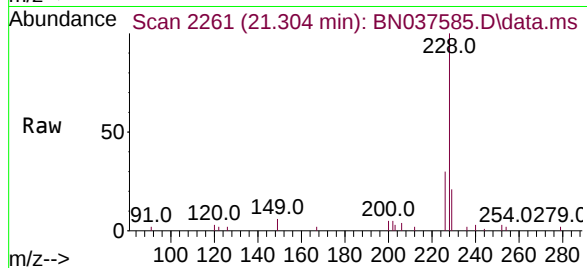
Tgt Ion:228 Resp: 6035

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 20.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.418 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

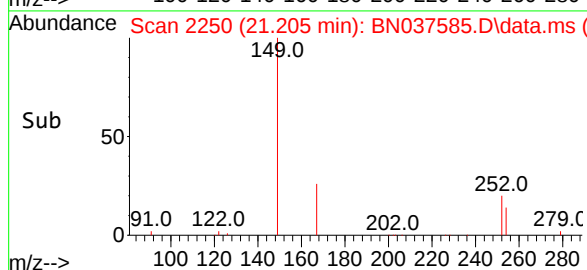
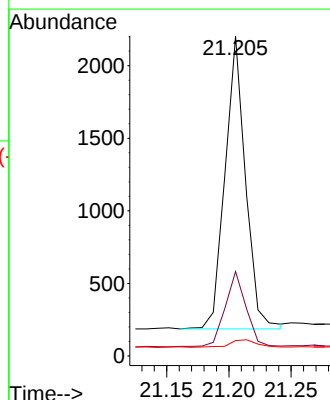
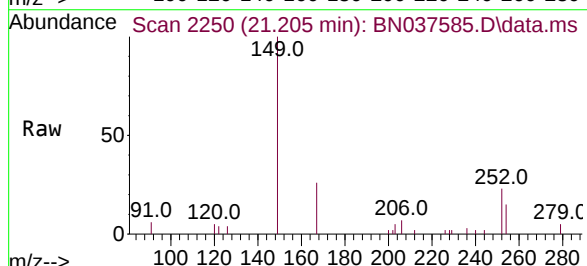
Tgt Ion:149 Resp: 2306

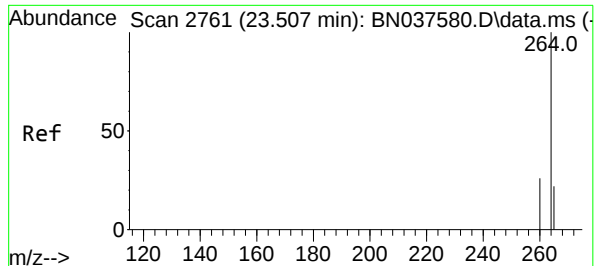
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

279 3.3 2.6 4.0

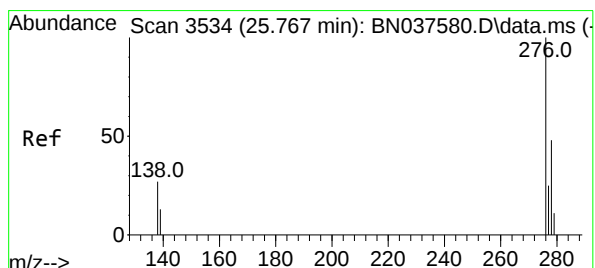
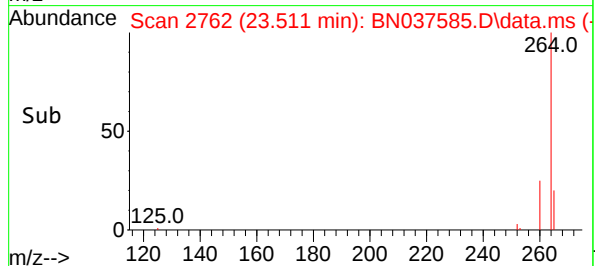
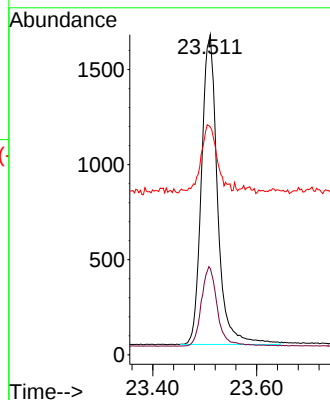
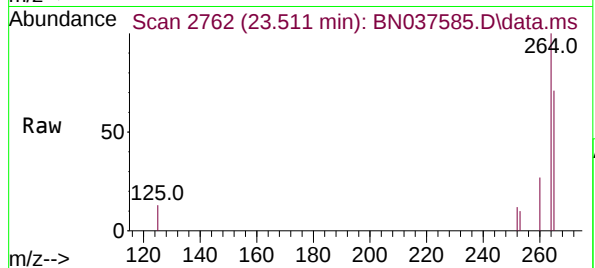




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.511 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

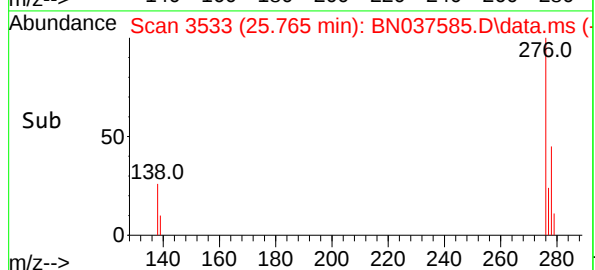
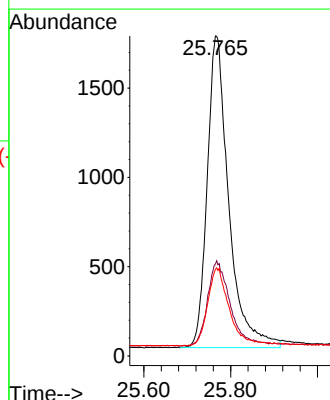
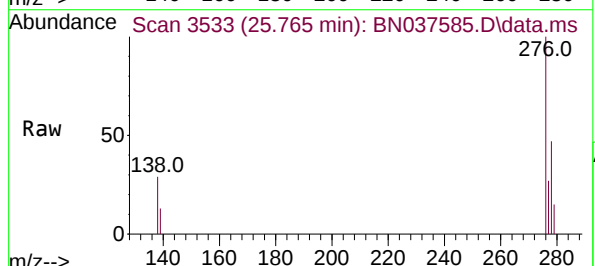
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

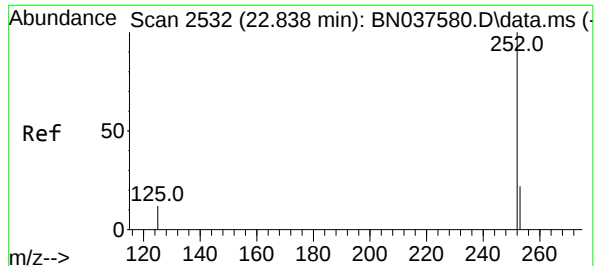
Tgt Ion:264 Resp: 3490
Ion Ratio Lower Upper
264 100
260 27.0 21.6 32.4
265 71.2 48.2 72.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.410 ng
RT: 25.765 min Scan# 3533
Delta R.T. -0.003 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:276 Resp: 6028
Ion Ratio Lower Upper
276 100
138 28.3 23.3 34.9
277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.409 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037585.D

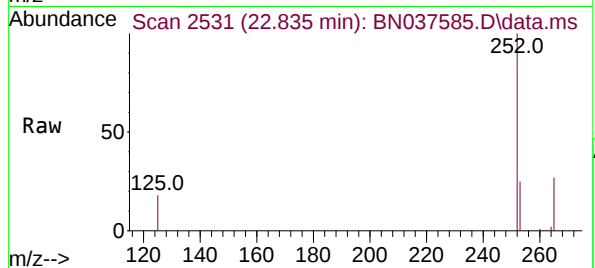
Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225



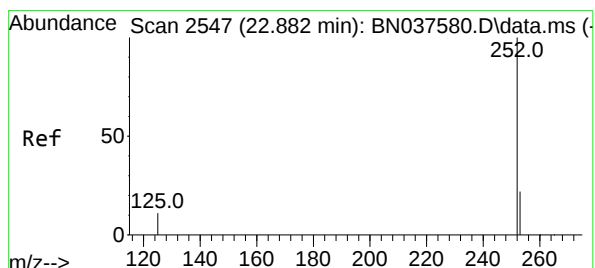
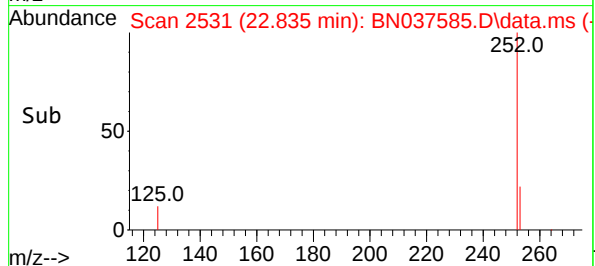
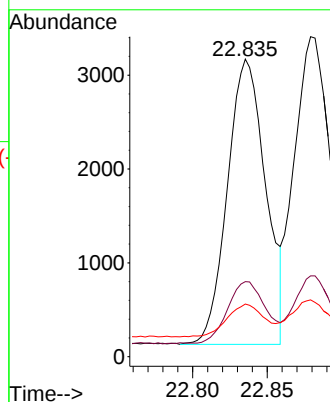
Tgt Ion:252 Resp: 5410

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

125 17.7 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.404 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

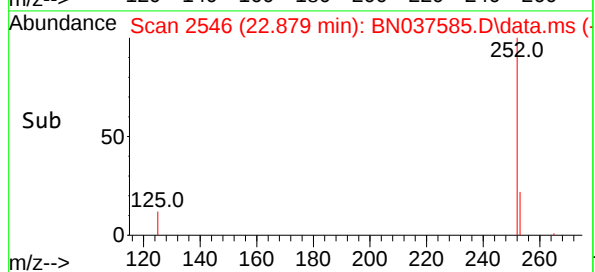
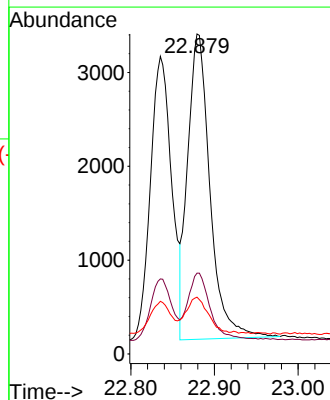
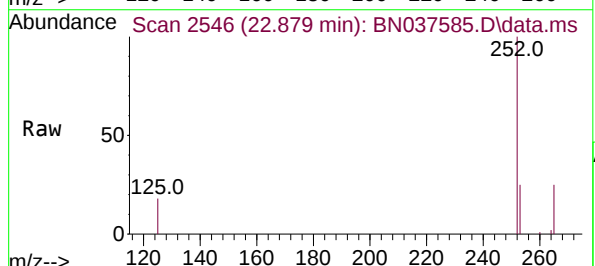
Tgt Ion:252 Resp: 6026

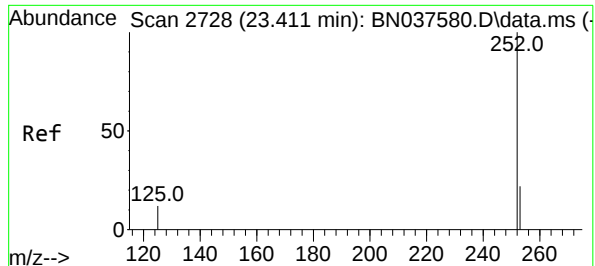
Ion Ratio Lower Upper

252 100

253 25.2 19.9 29.9

125 17.7 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037585.D

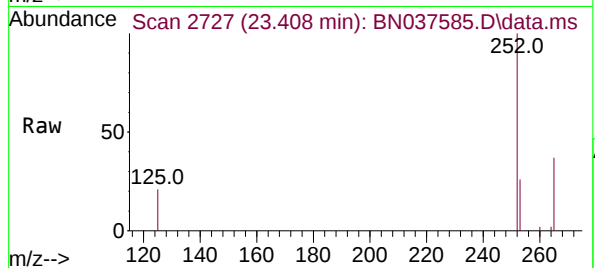
Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225



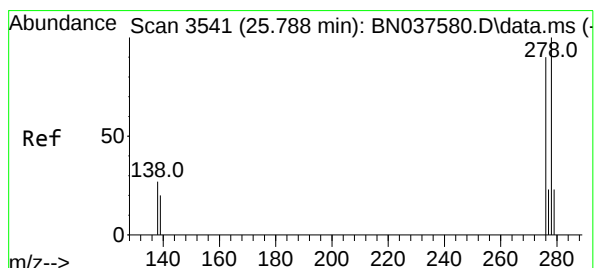
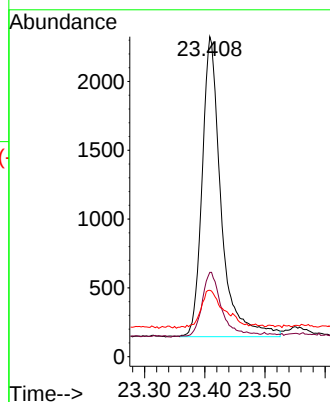
Tgt Ion:252 Resp: 4761

Ion Ratio Lower Upper

252 100

253 26.4 21.6 32.4

125 20.7 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.401 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

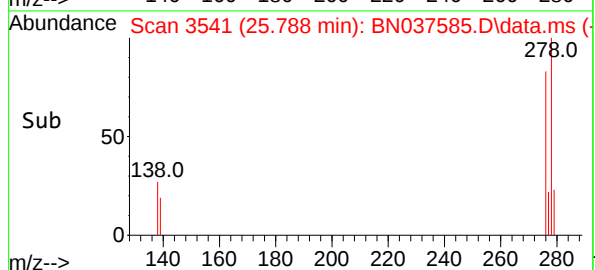
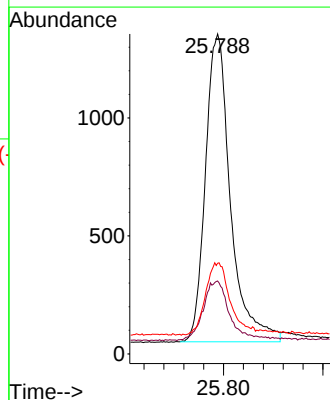
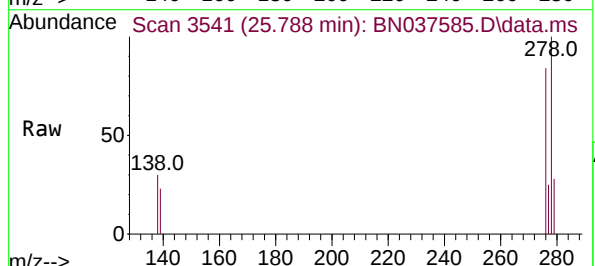
Tgt Ion:278 Resp: 4571

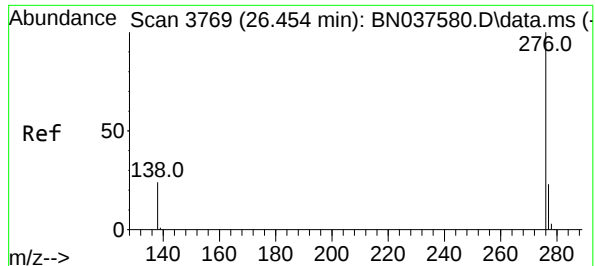
Ion Ratio Lower Upper

278 100

139 22.8 18.3 27.5

279 28.3 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.407 ng

RT: 26.458 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037585.D

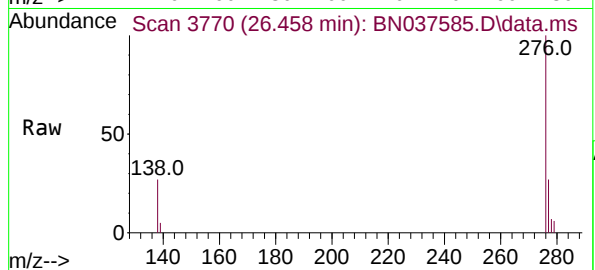
Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225



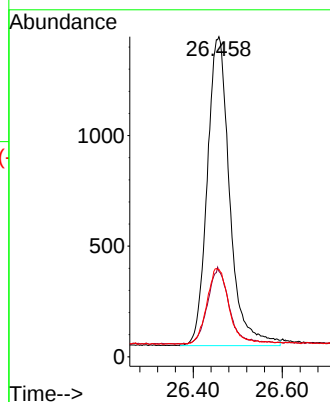
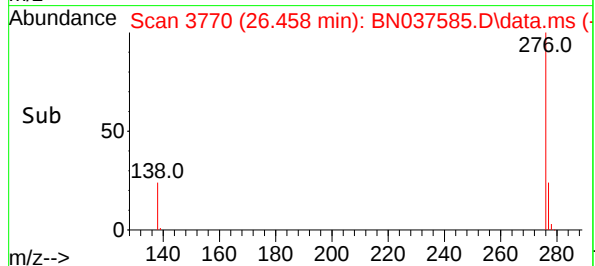
Tgt Ion:276 Resp: 4888

Ion Ratio Lower Upper

276 100

277 26.7 21.0 31.4

138 27.3 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037585.D
 Acq On : 12 Aug 2025 20:42
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICBN081225

Quant Time: Aug 13 05:03:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 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	88	0.00
2	1,4-Dioxane	0.383	0.481	-25.6#	107	0.00
3	n-Nitrosodimethylamine	0.489	0.570	-16.6	103	0.00
4 S	2-Fluorophenol	0.907	0.965	-6.4	96	0.00
5 S	Phenol-d6	1.091	1.228	-12.6	103	0.00
6	bis(2-Chloroethyl)ether	0.983	1.077	-9.6	97	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
8 S	Nitrobenzene-d5	0.282	0.312	-10.6	104	0.00
9	Naphthalene	1.065	1.104	-3.7	94	0.00
10	Hexachlorobutadiene	0.260	0.279	-7.3	93	0.00
11 SURR	2-Methylnaphthalene-d10	0.544	0.578	-6.2	100	0.00
12	2-Methylnaphthalene	0.668	0.622	6.9	86	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.175	0.160	8.6	90	0.00
15 S	2-Fluorobiphenyl	2.313	2.564	-10.9	99	0.00
16	Acenaphthylene	1.793	2.010	-12.1	104	0.00
17	Acenaphthene	1.220	1.235	-1.2	93	0.00
18	Fluorene	1.596	1.603	-0.4	93	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.046	13.2	90	0.00
21	4-Bromophenyl-phenylether	0.251	0.251	0.0	97	0.00
22	Hexachlorobenzene	0.356	0.373	-4.8	95	0.00
23	Atrazine	0.142	0.149	-4.9	104	0.00
24	Pentachlorophenol	0.125	0.106	15.2	85	0.00
25	Phenanthrene	1.216	1.230	-1.2	95	0.00
26	Anthracene	1.077	1.082	-0.5	99	0.00
27 SURR	Fluoranthene-d10	1.052	1.066	-1.3	101	0.00
28	Fluoranthene	1.397	1.336	4.4	93	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.495	1.481	0.9	94	0.00
31 S	Terphenyl-d14	0.823	0.971	-18.0	113	0.00
32	Benzo(a)anthracene	1.336	1.374	-2.8	101	0.00
33	Chrysene	1.489	1.508	-1.3	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.576	-4.5	102	0.00
35 I	Perylene-d12	1.000	1.000	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.727	-2.4	89	0.00
37	Benzo(b)fluoranthene	1.516	1.550	-2.2	97	0.00
38	Benzo(k)fluoranthene	1.710	1.727	-1.0	87	0.00
39 C	Benzo(a)pyrene	1.257	1.364	-8.5	99	0.00
40	Dibenzo(a,h)anthracene	1.308	1.310	-0.2	89	0.00
41	Benzo(g,h,i)perylene	1.378	1.401	-1.7	93	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037585.D
 Acq On : 12 Aug 2025 20:42
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICBVN081225

Quant Time: Aug 13 05:03:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 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	88	0.00
2	1,4-Dioxane	0.400	0.502	-25.5#	107	0.00
3	n-Nitrosodimethylamine	0.400	0.466	-16.5	103	0.00
4 S	2-Fluorophenol	0.400	0.426	-6.5	96	0.00
5 S	Phenol-d6	0.400	0.450	-12.5	103	0.00
6	bis(2-Chloroethyl)ether	0.400	0.438	-9.5	97	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	88	0.00
8 S	Nitrobenzene-d5	0.400	0.443	-10.7	104	0.00
9	Naphthalene	0.400	0.415	-3.7	94	0.00
10	Hexachlorobutadiene	0.400	0.429	-7.2	93	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.425	-6.2	100	0.00
12	2-Methylnaphthalene	0.400	0.372	7.0	86	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.443	-10.7	99	0.00
16	Acenaphthylene	0.400	0.448	-12.0	104	0.00
17	Acenaphthene	0.400	0.405	-1.3	93	0.00
18	Fluorene	0.400	0.402	-0.5	93	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	91	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.433	-8.2	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.400	0.0	97	0.00
22	Hexachlorobenzene	0.400	0.419	-4.7	95	0.00
23	Atrazine	0.400	0.420	-5.0	104	0.00
24	Pentachlorophenol	0.400	0.339	15.3	85	0.00
25	Phenanthrene	0.400	0.404	-1.0	95	0.00
26	Anthracene	0.400	0.402	-0.5	99	0.00
27 SURR	Fluoranthene-d10	0.400	0.405	-1.3	101	0.00
28	Fluoranthene	0.400	0.382	4.5	93	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.396	1.0	94	0.00
31 S	Terphenyl-d14	0.400	0.472	-18.0	113	0.00
32	Benzo(a)anthracene	0.400	0.411	-2.7	101	0.00
33	Chrysene	0.400	0.405	-1.3	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.418	-4.5	102	0.00
35 I	Perylene-d12	0.400	0.400	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.410	-2.5	89	0.00
37	Benzo(b)fluoranthene	0.400	0.409	-2.2	97	0.00
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	87	0.00
39 C	Benzo(a)pyrene	0.400	0.434	-8.5	99	0.00
40	Dibenzo(a,h)anthracene	0.400	0.401	-0.3	89	0.00
41	Benzo(g,h,i)perylene	0.400	0.407	-1.7	93	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2937
 Instrument ID: BNA_N Calibration Date/Time: 08/28/2025 09:29
 Lab File ID: BN037648.D Init. Calib. Date(s): 08/12/2025 08/12/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.501		-7.9	20.0
Fluoranthene-d10	1.052	0.951		-9.6	20.0
2-Fluorophenol	0.907	0.875		-3.5	20.0
Phenol-d6	1.091	1.043		-4.4	20.0
Nitrobenzene-d5	0.282	0.280		-0.7	20.0
2-Fluorobiphenyl	2.313	2.244		-3.0	20.0
2,4,6-Tribromophenol	0.175	0.185		5.7	20.0
Terphenyl-d14	0.823	0.762		-7.4	20.0
1,4-Dioxane	0.383	0.415		8.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037648.D
 Acq On : 28 Aug 2025 09:29
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Aug 28 11:49:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

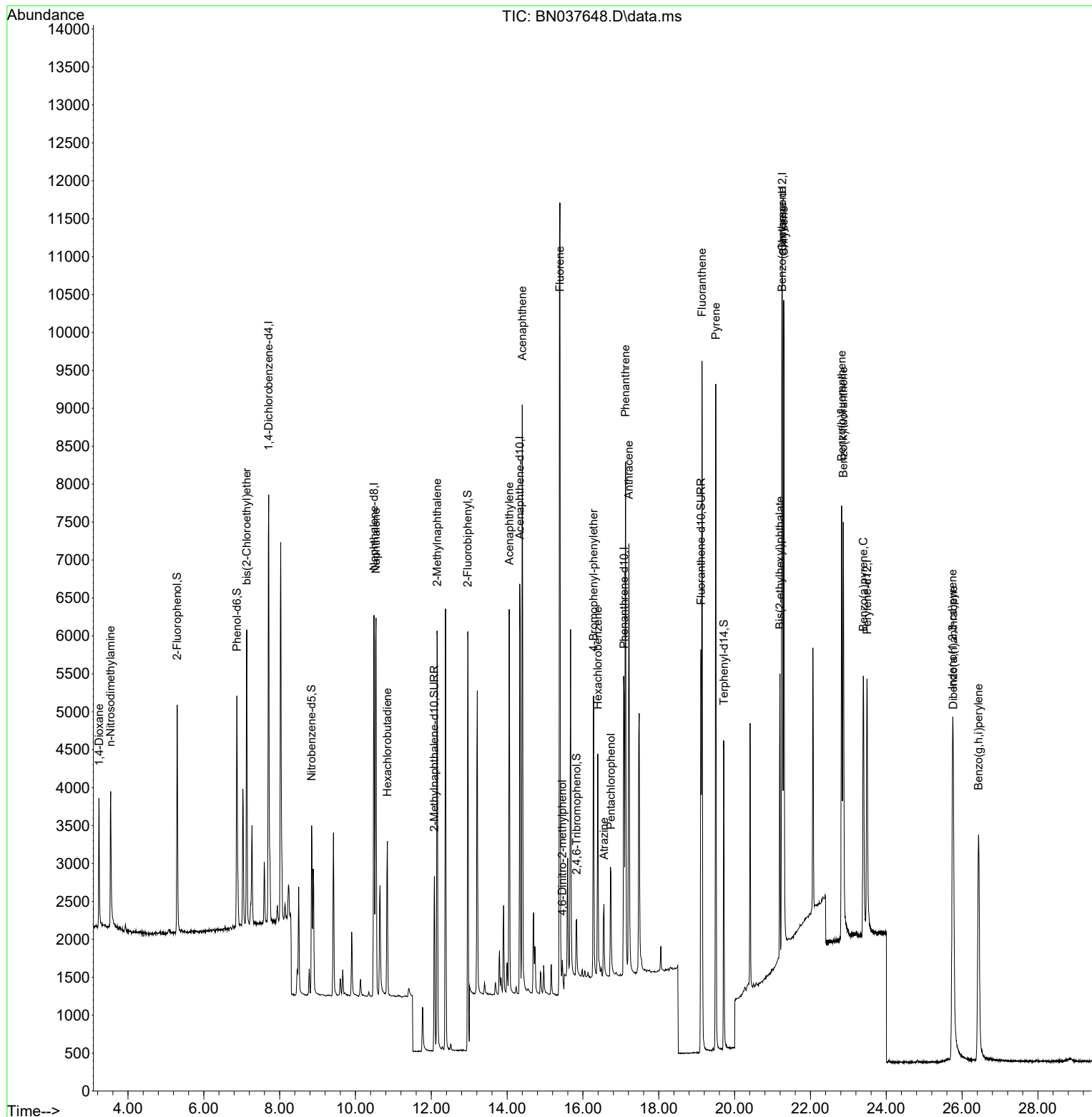
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2763	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	6612	0.400	ng	-0.01
13) Acenaphthene-d10	14.334	164	3159	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	6462	0.400	ng	# 0.00
29) Chrysene-d12	21.259	240	5486	0.400	ng	#-0.02
35) Perylene-d12	23.493	264	4720	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	2417	0.386	ng	0.00
5) Phenol-d6	6.872	99	2882	0.382	ng	0.00
8) Nitrobenzene-d5	8.843	82	1850	0.397	ng	-0.01
11) 2-Methylnaphthalene-d10	12.080	152	3314	0.369	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	583	0.422	ng	0.00
15) 2-Fluorobiphenyl	12.963	172	7088	0.388	ng	-0.02
27) Fluoranthene-d10	19.113	212	6145	0.361	ng	0.00
31) Terphenyl-d14	19.717	244	4183	0.371	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	1146	0.434	ng	97
3) n-Nitrosodimethylamine	3.543	42	1321	0.391	ng	# 96
6) bis(2-Chloroethyl)ether	7.132	93	2761	0.406	ng	98
9) Naphthalene	10.541	128	6992	0.397	ng	100
10) Hexachlorobutadiene	10.840	225	1671	0.389	ng	# 100
12) 2-Methylnaphthalene	12.151	142	4221	0.382	ng	99
16) Acenaphthylene	14.056	152	5556	0.392	ng	99
17) Acenaphthene	14.398	154	3781	0.393	ng	100
18) Fluorene	15.393	166	4959	0.393	ng	100
20) 4,6-Dinitro-2-methylph...	15.457	198	293	0.430	ng	# 66
21) 4-Bromophenyl-phenylether	16.280	248	1534	0.378	ng	94
22) Hexachlorobenzene	16.391	284	2309	0.401	ng	98
23) Atrazine	16.553	200	941	0.410	ng	# 93
24) Pentachlorophenol	16.739	266	910	0.450	ng	98
25) Phenanthrene	17.124	178	7546	0.384	ng	100
26) Anthracene	17.211	178	6491	0.373	ng	99
28) Fluoranthene	19.141	202	8400	0.372	ng	99
30) Pyrene	19.503	202	8158	0.398	ng	99
32) Benzo(a)anthracene	21.250	228	7074	0.386	ng	99
33) Chrysene	21.295	228	7853	0.385	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3355	0.444	ng	99
36) Indeno(1,2,3-cd)pyrene	25.750	276	6658	0.335	ng	99
37) Benzo(b)fluoranthene	22.823	252	7118	0.398	ng	99
38) Benzo(k)fluoranthene	22.867	252	7415	0.367	ng	98
39) Benzo(a)pyrene	23.396	252	5593	0.377	ng	97
40) Dibenzo(a,h)anthracene	25.768	278	4739	0.307	ng	98
41) Benzo(g,h,i)perylene	26.434	276	6587	0.405	ng	99

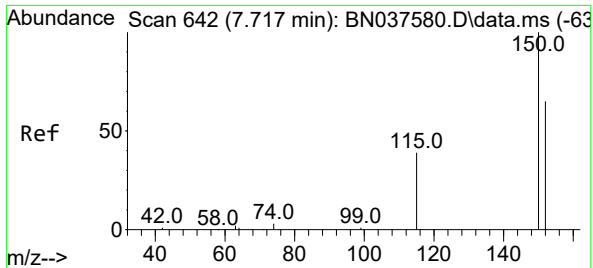
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Data File : BN037648.D
Acq On : 28 Aug 2025 09:29
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 28 11:49:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

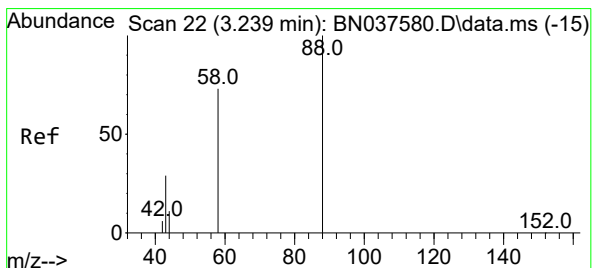
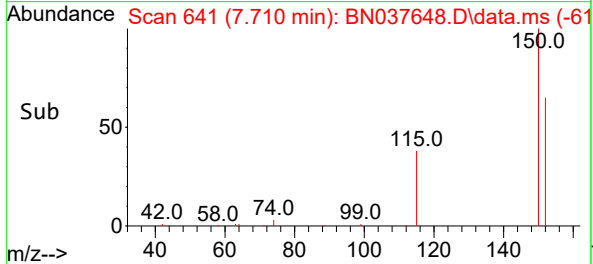
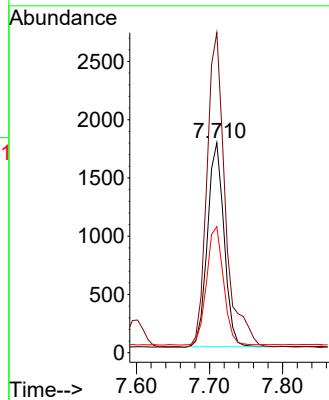
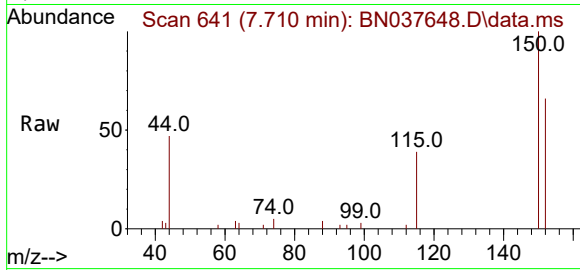




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.710 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN037648.D
 Acq: 28 Aug 2025 09:29

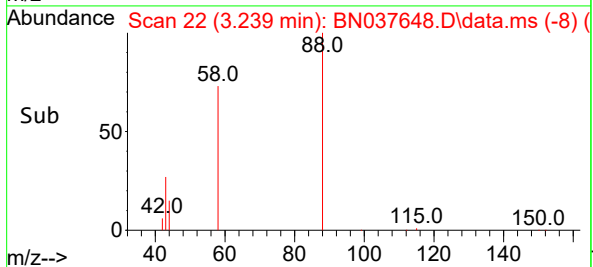
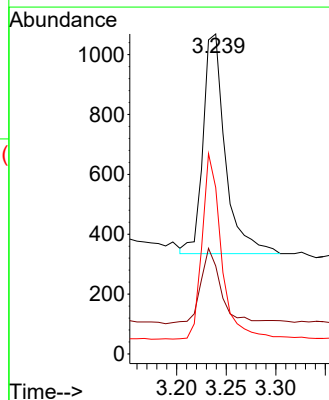
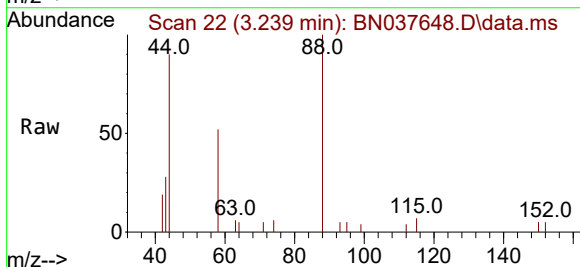
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

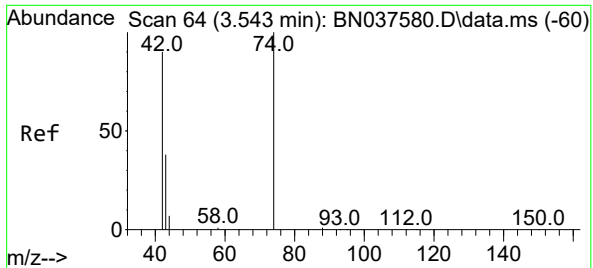
Tgt Ion:152 Resp: 2763
 Ion Ratio Lower Upper
 152 100
 150 152.4 122.2 183.4
 115 60.1 49.8 74.6



#2
 1,4-Dioxane
 Concen: 0.434 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN037648.D
 Acq: 28 Aug 2025 09:29

Tgt Ion: 88 Resp: 1146
 Ion Ratio Lower Upper
 88 100
 43 31.2 25.8 38.6
 58 73.2 61.2 91.8

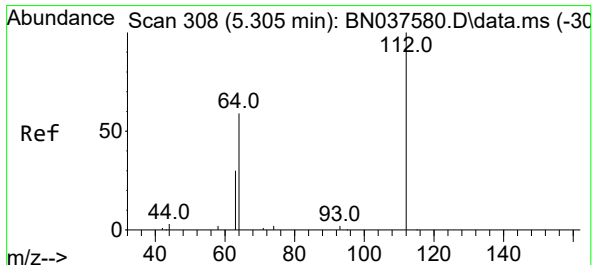
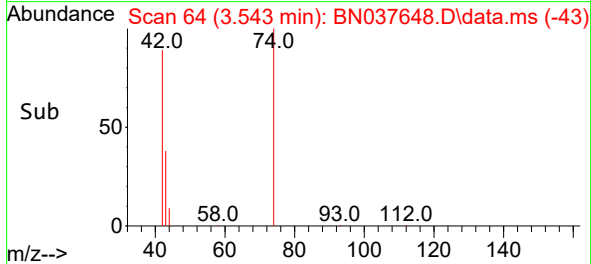
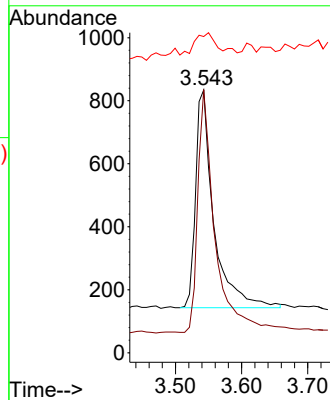
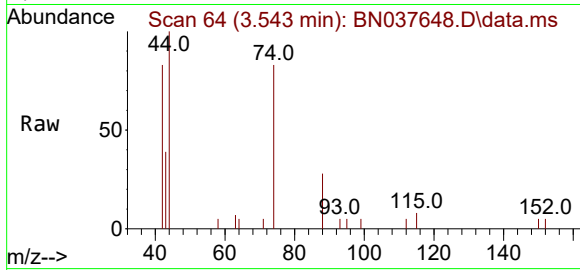




#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

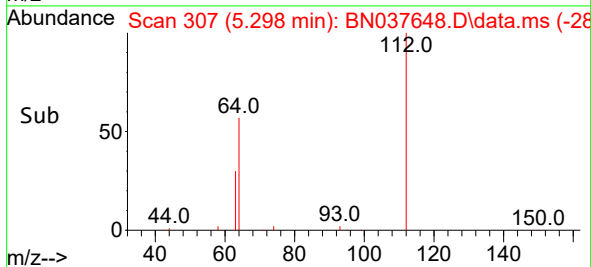
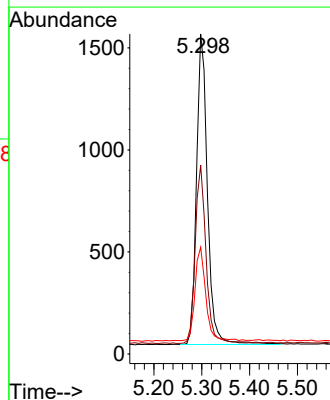
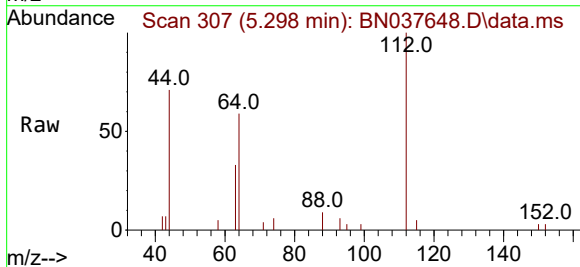
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

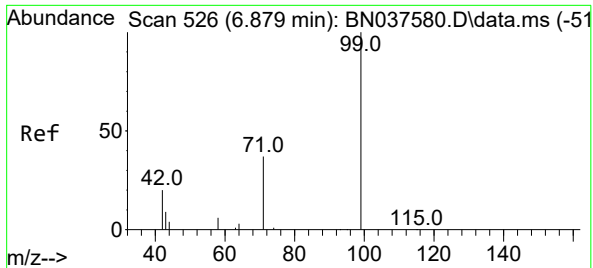
Tgt Ion: 42 Resp: 1321
Ion Ratio Lower Upper
42 100
74 106.1 82.0 123.0
44 11.9 7.9 11.9#



#4
2-Fluorophenol
Concen: 0.386 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.007 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion: 112 Resp: 2417
Ion Ratio Lower Upper
112 100
64 56.5 44.9 67.3
63 30.0 23.4 35.2

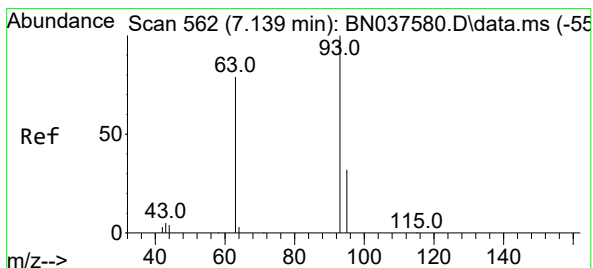
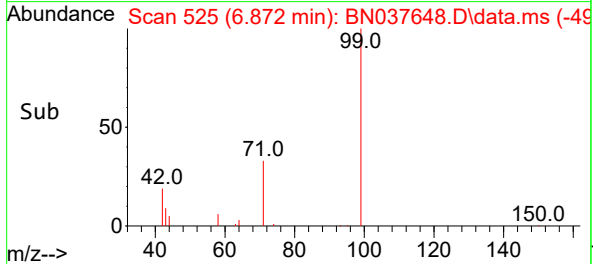
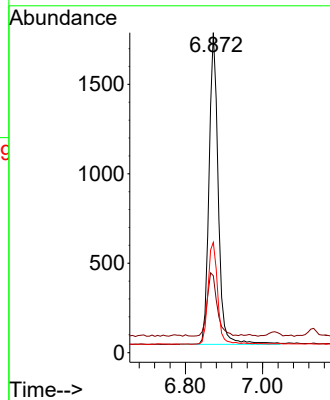
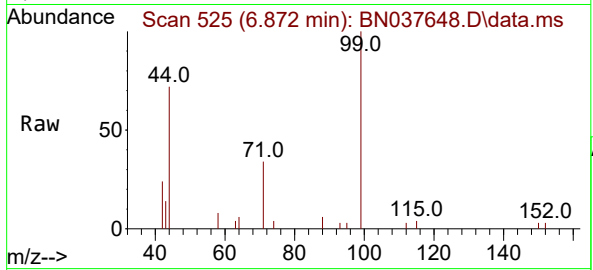




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

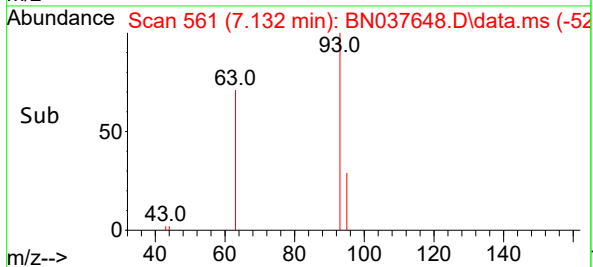
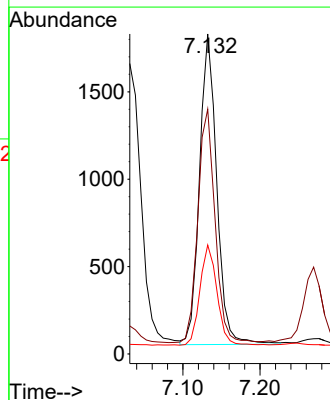
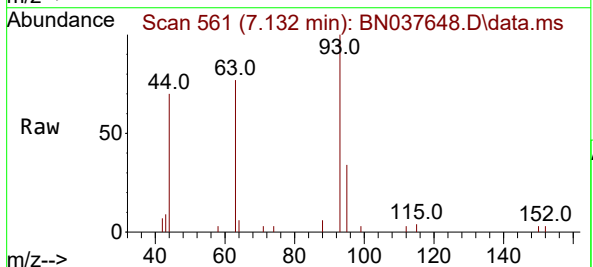
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

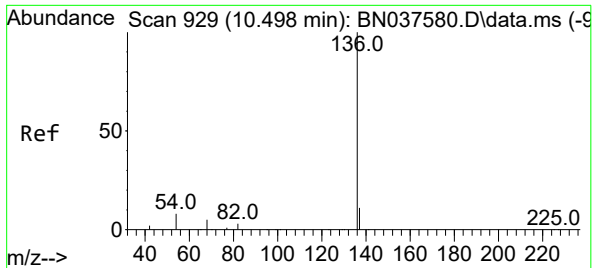
Tgt Ion: 99 Resp: 2882
Ion Ratio Lower Upper
99 100
42 22.0 18.5 27.7
71 33.9 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.406 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion: 93 Resp: 2761
Ion Ratio Lower Upper
93 100
63 74.8 58.0 87.0
95 31.8 24.9 37.3

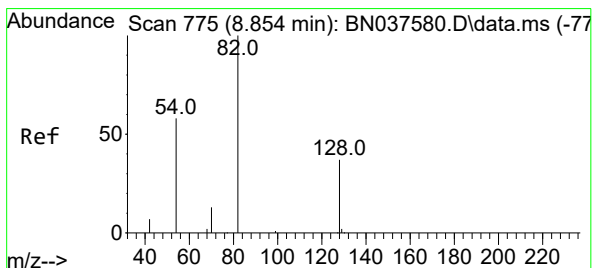
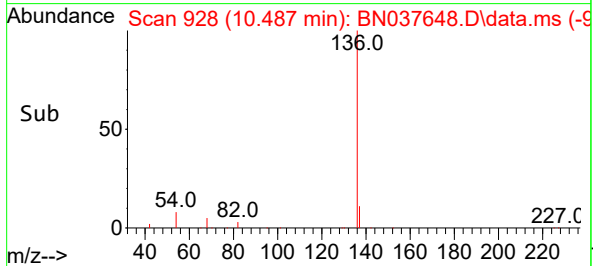
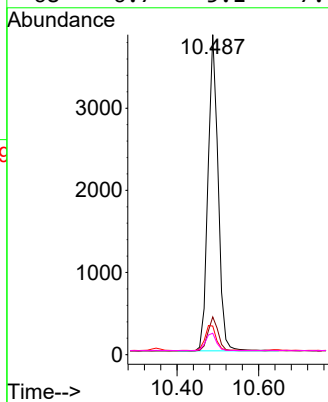
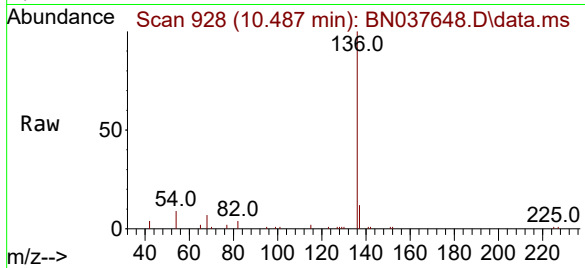




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

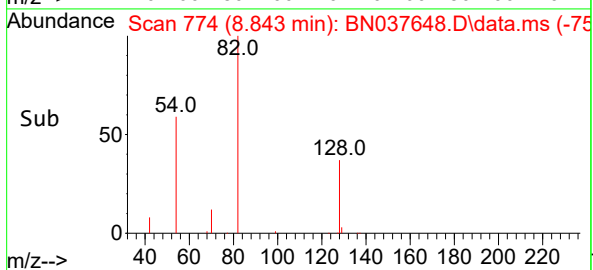
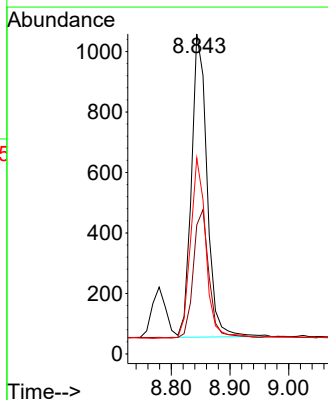
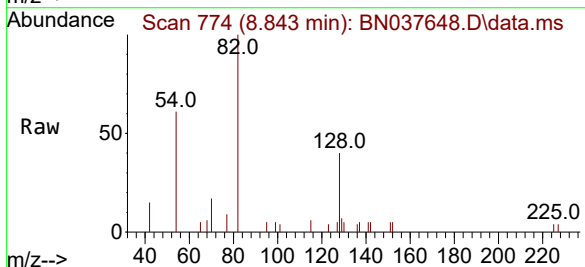
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BNA_N
ClientSampleId :
SSTDCCC0.4

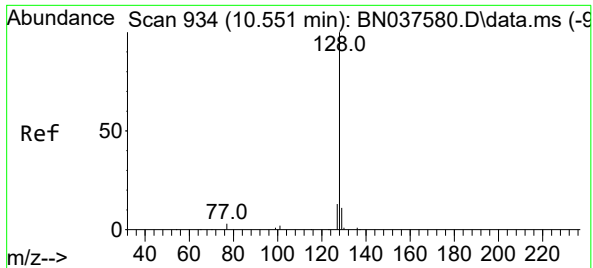
Tgt Ion:136 Resp: 6612
Ion Ratio Lower Upper
136 100
137 11.8 9.5 14.3
54 8.9 7.3 10.9
68 6.7 5.1 7.7



#8
Nitrobenzene-d5
Concen: 0.397 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.010 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion: 82 Resp: 1850
Ion Ratio Lower Upper
82 100
128 40.3 32.6 48.8
54 61.2 48.9 73.3

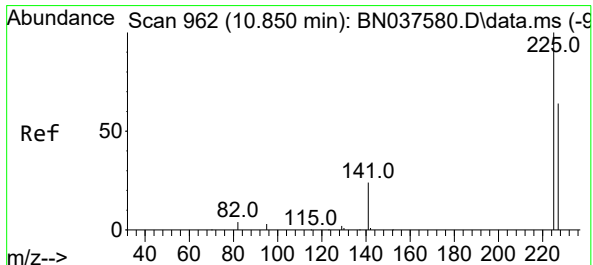
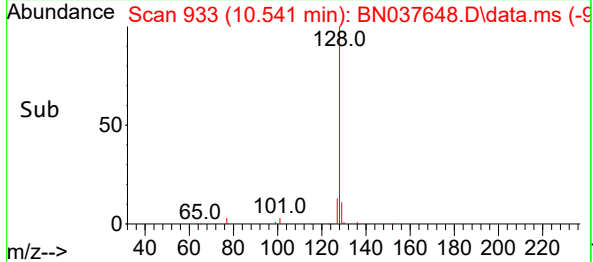
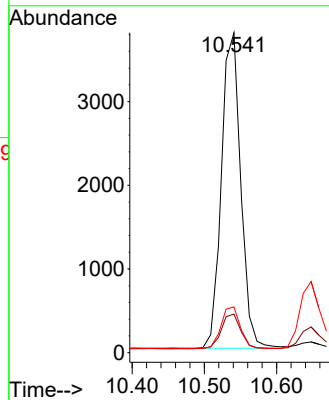
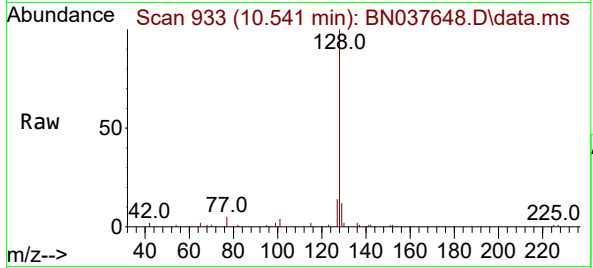




#9
Naphthalene
Concen: 0.397 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

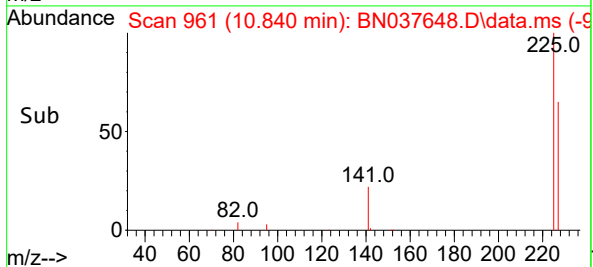
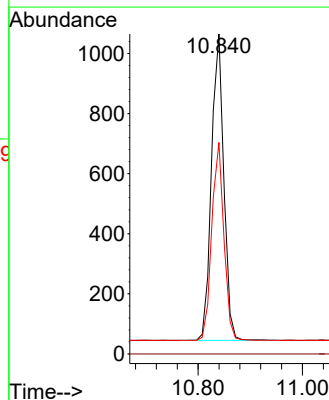
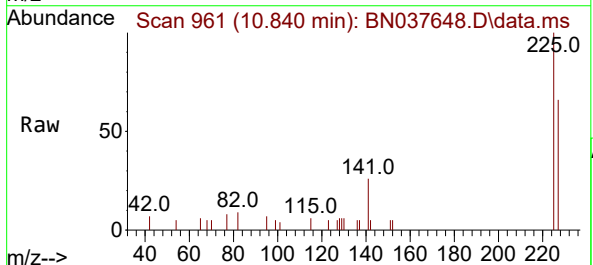
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BNA_N
ClientSampleId :
SSTDCCC0.4

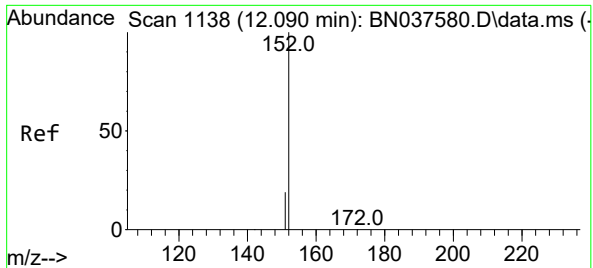
Tgt Ion:128 Resp: 6992
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.3 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:225 Resp: 1671
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 50.8 76.2

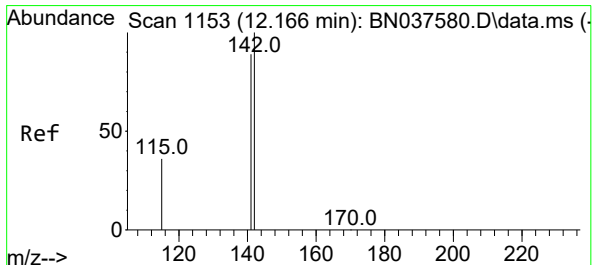
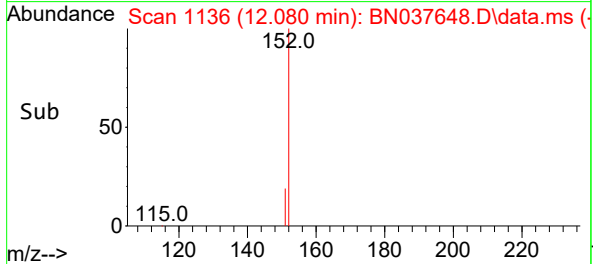
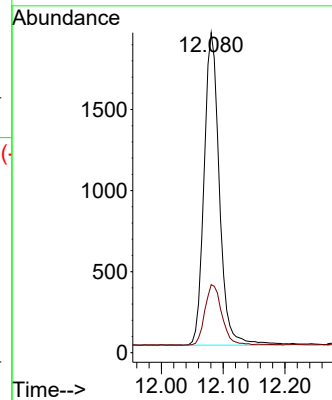
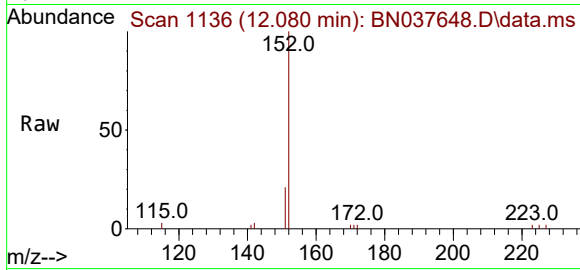




#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 12.080 min Scan# 1136
Delta R.T. -0.010 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

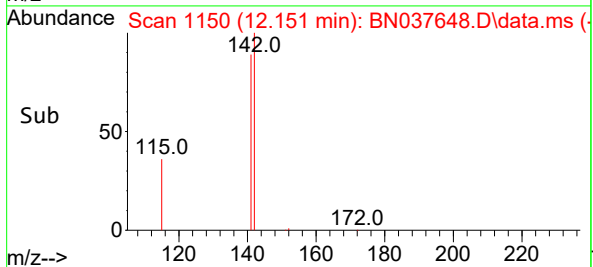
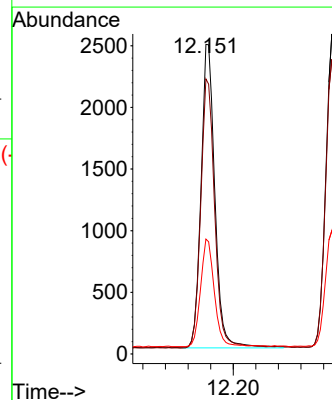
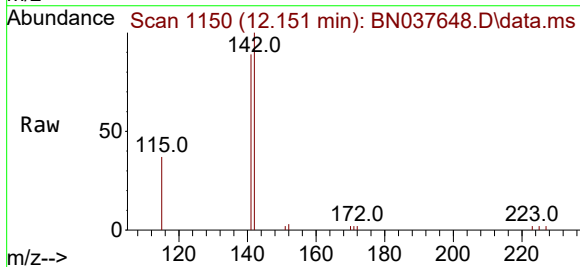
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

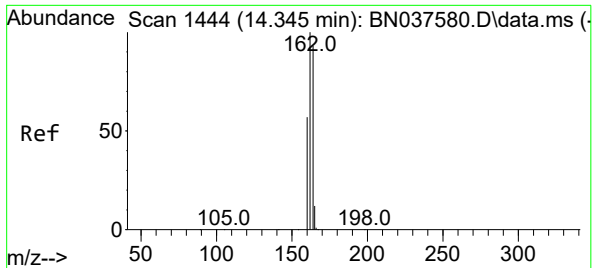
Tgt Ion:152 Resp: 3314
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.015 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:142 Resp: 4221
Ion Ratio Lower Upper
142 100
141 88.8 71.4 107.0
115 37.1 30.2 45.4

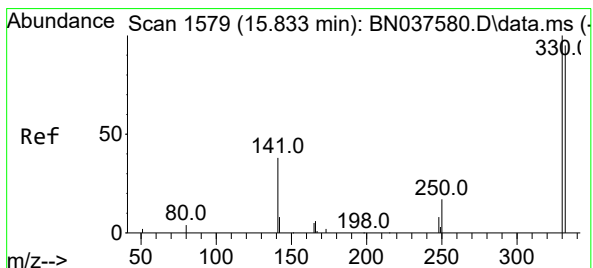
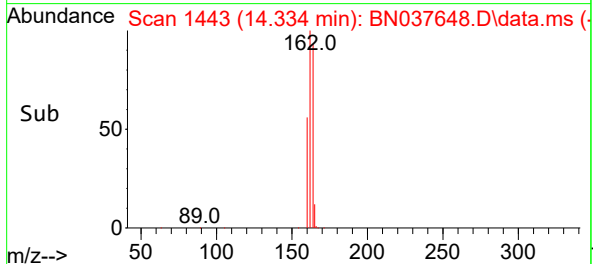
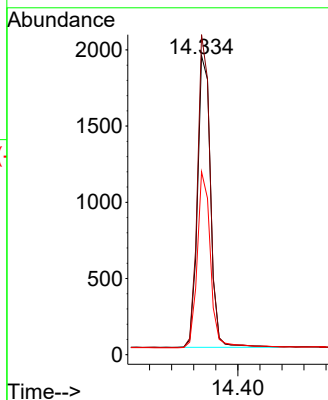
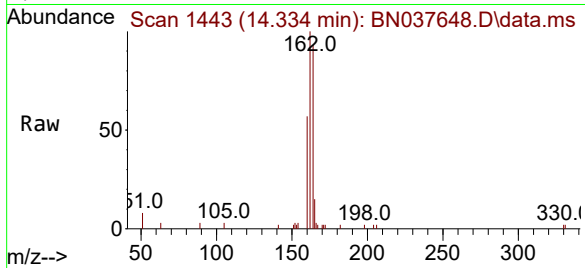




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

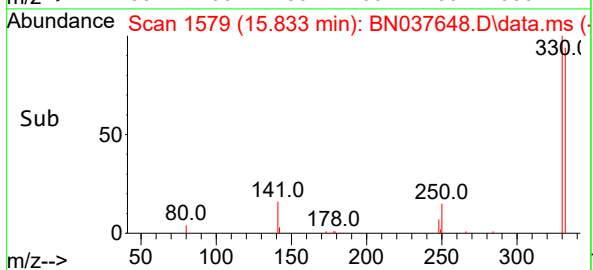
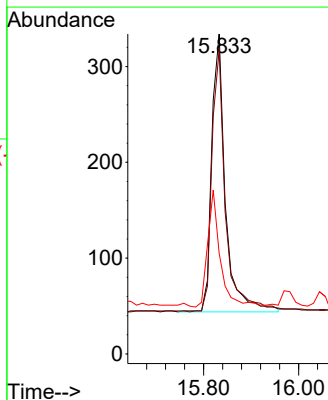
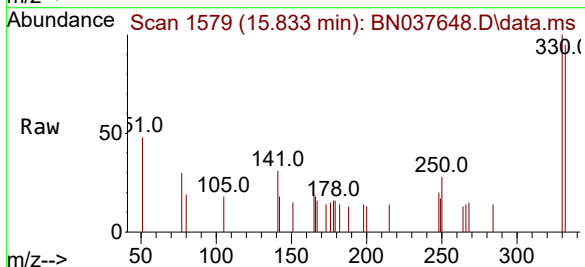
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

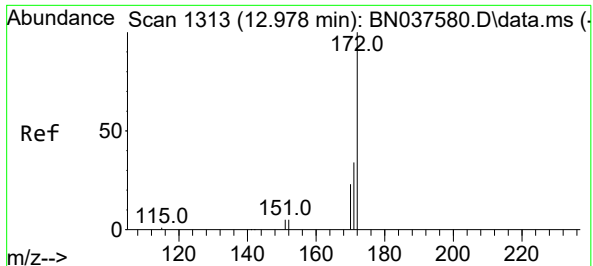
Tgt Ion:164 Resp: 3159
Ion Ratio Lower Upper
164 100
162 107.1 85.5 128.3
160 61.2 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.422 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:330 Resp: 583
Ion Ratio Lower Upper
330 100
332 94.2 77.4 116.0
141 38.8 30.9 46.3

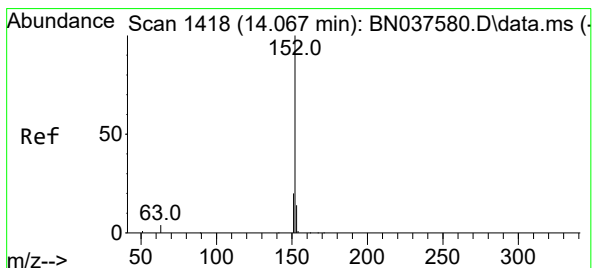
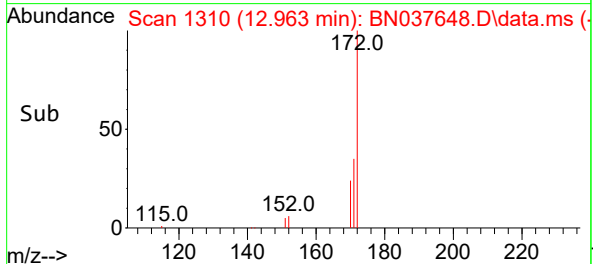
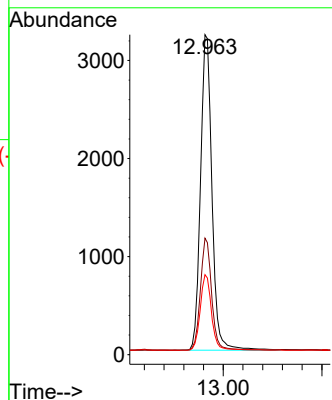
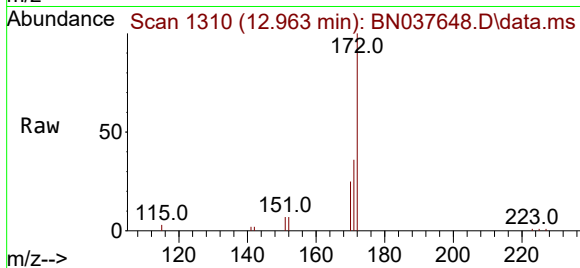




#15
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

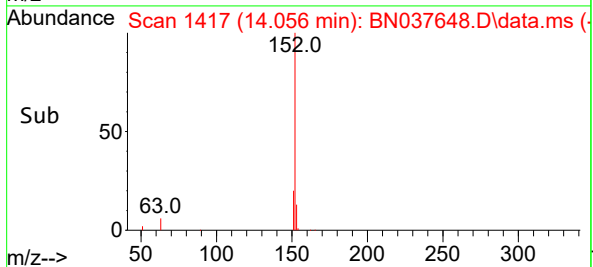
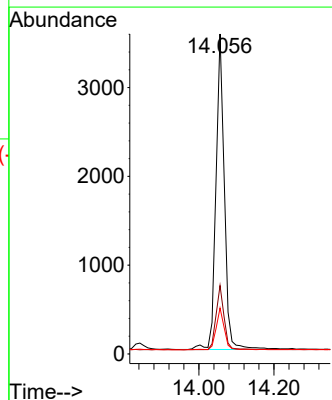
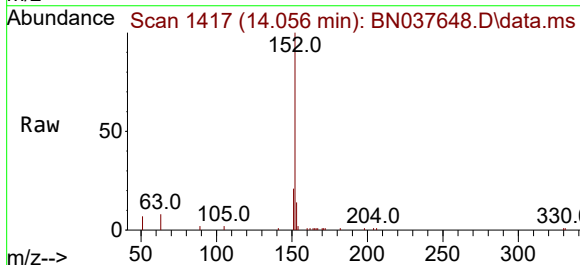
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

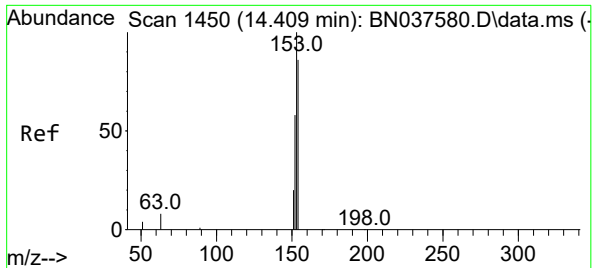
Tgt Ion:172 Resp: 7088
Ion Ratio Lower Upper
172 100
171 36.4 28.2 42.4
170 25.0 19.2 28.8



#16
Acenaphthylene
Concen: 0.392 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:152 Resp: 5556
Ion Ratio Lower Upper
152 100
151 19.8 16.1 24.1
153 12.9 10.7 16.1

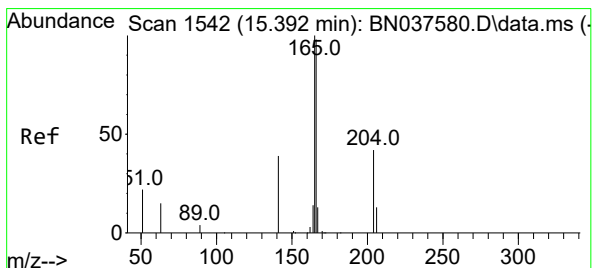
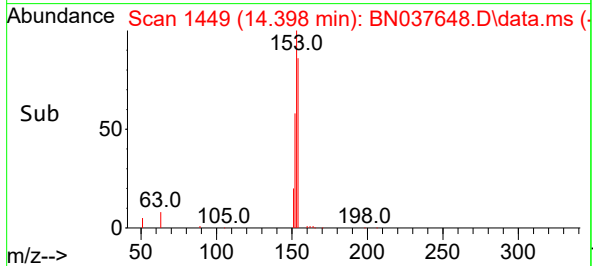
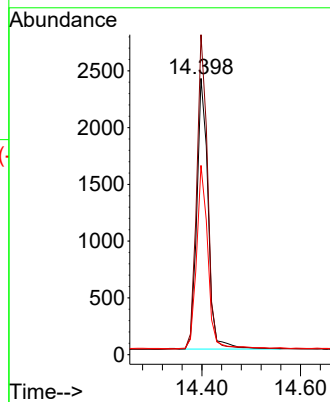
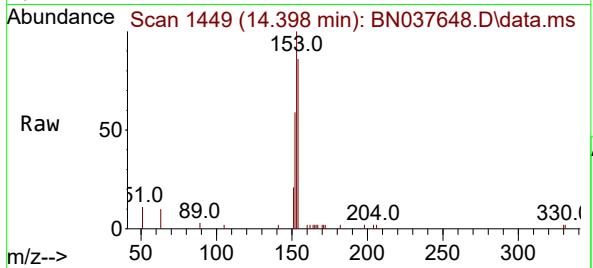




#17
Acenaphthene
Concen: 0.393 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

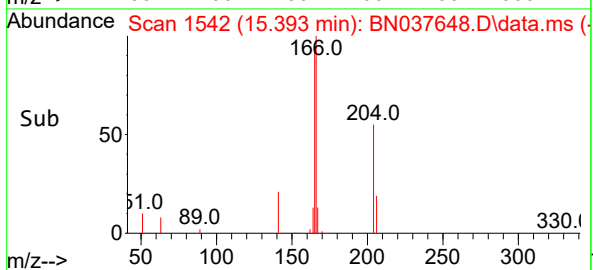
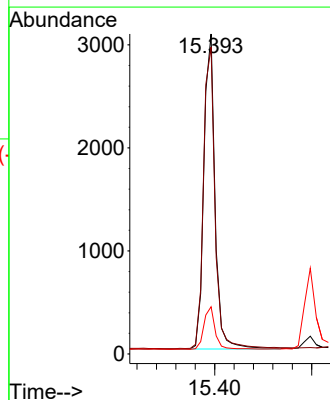
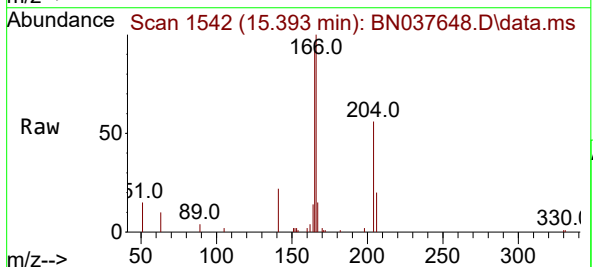
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

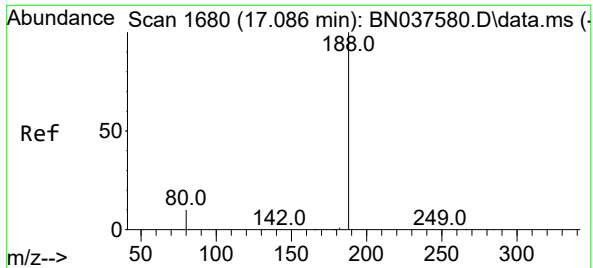
Tgt Ion:154 Resp: 3781
Ion Ratio Lower Upper
154 100
153 113.0 90.6 135.8
152 68.0 54.9 82.3



#18
Fluorene
Concen: 0.393 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:166 Resp: 4959
Ion Ratio Lower Upper
166 100
165 98.7 78.9 118.3
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

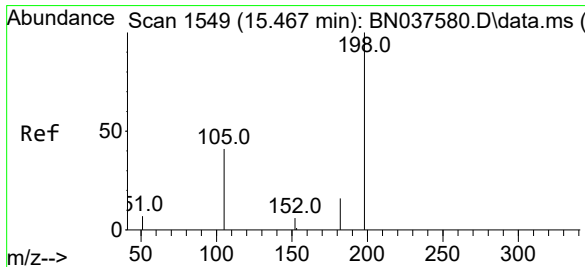
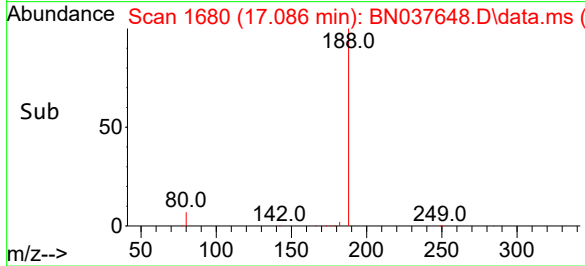
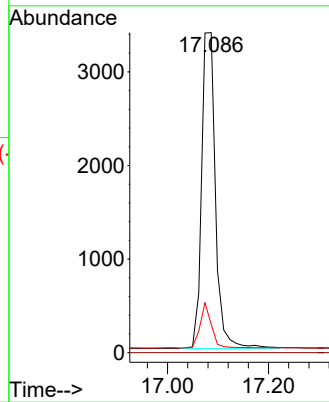
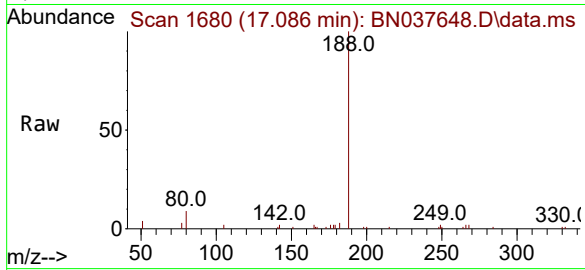
Tgt Ion:188 Resp: 6462

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 9.1 13.7#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.430 ng

RT: 15.457 min Scan# 1548

Delta R.T. -0.010 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

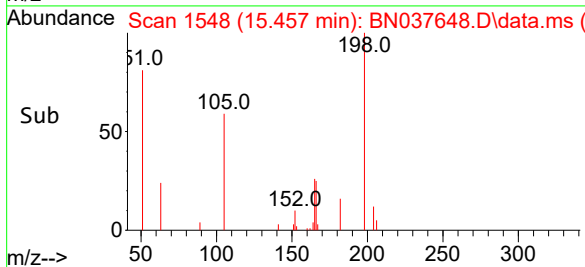
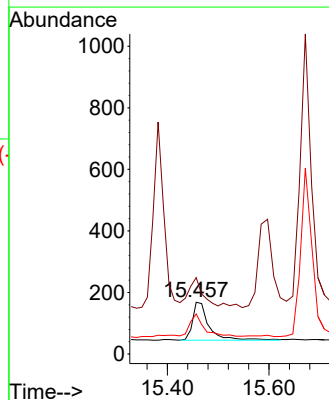
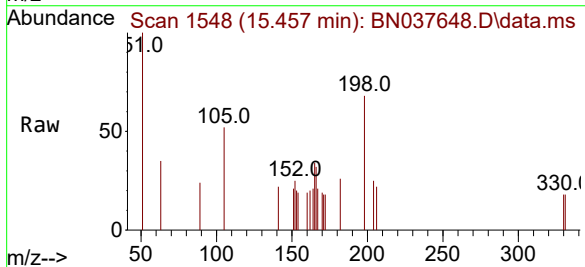
Tgt Ion:198 Resp: 293

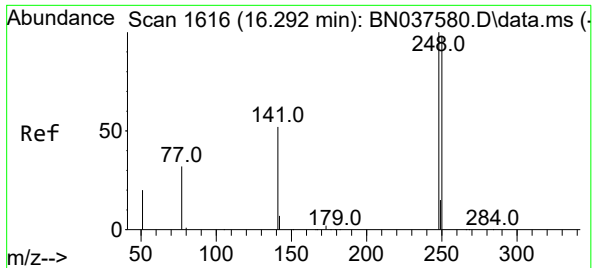
Ion Ratio Lower Upper

198 100

51 147.6 81.0 121.6#

105 77.4 52.5 78.7

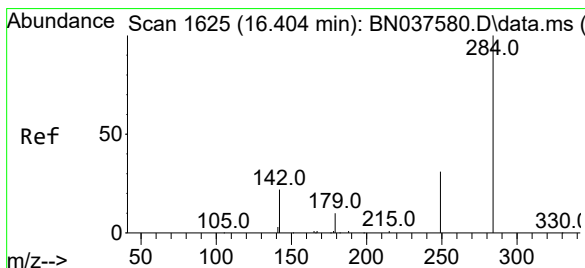
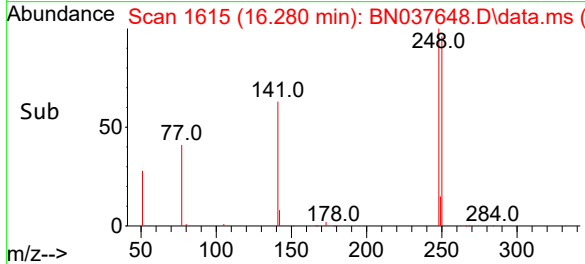
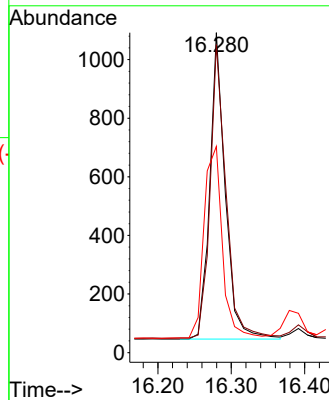
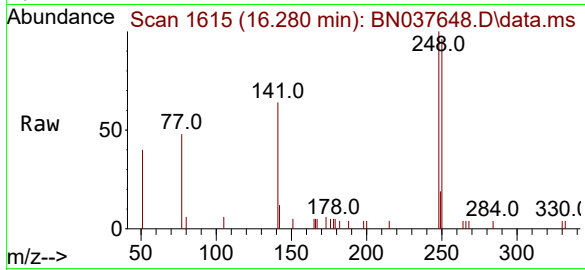




#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

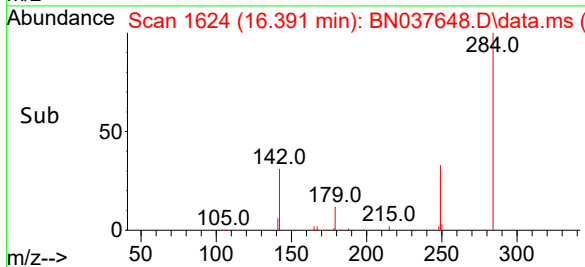
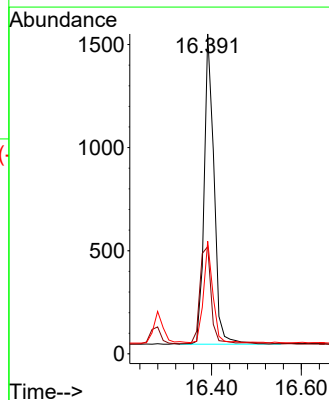
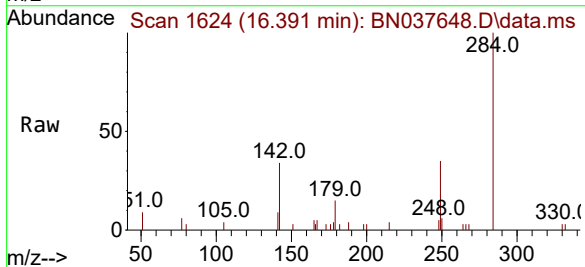
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

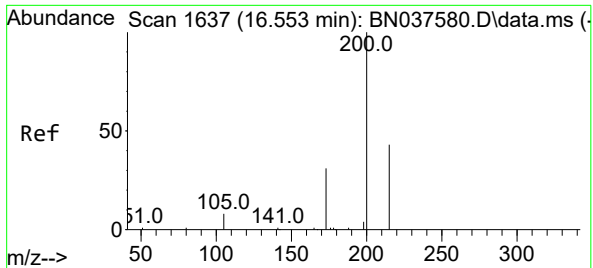
Tgt Ion:	248	Resp:	1534
Ion	Ratio	Lower	Upper
248	100		
250	96.2	78.6	118.0
141	64.5	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:	284	Resp:	2309
Ion	Ratio	Lower	Upper
284	100		
142	36.6	29.8	44.6
249	30.3	26.0	39.0





#23

Atrazine

Concen: 0.410 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

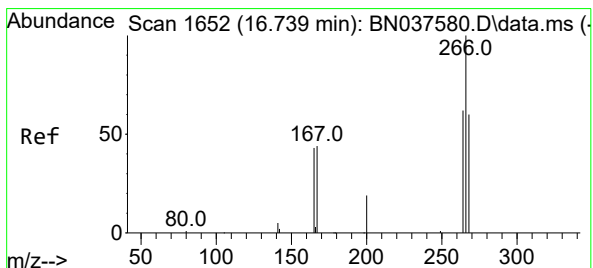
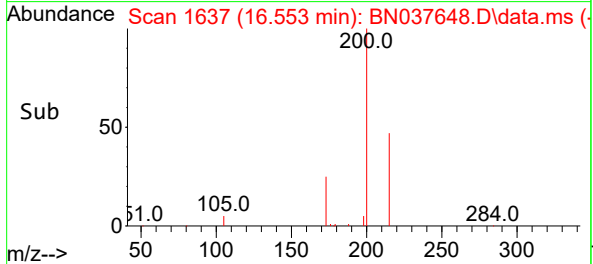
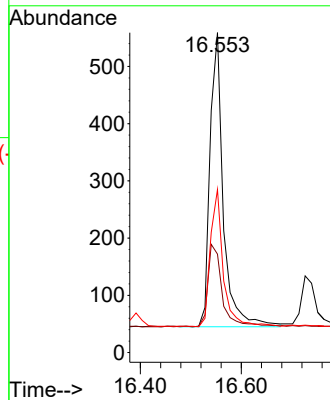
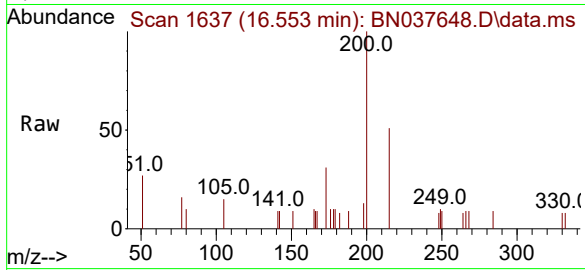
Tgt Ion:200 Resp: 941

Ion Ratio Lower Upper

200 100

173 30.8 31.0 46.4#

215 51.0 39.4 59.0



#24

Pentachlorophenol

Concen: 0.450 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

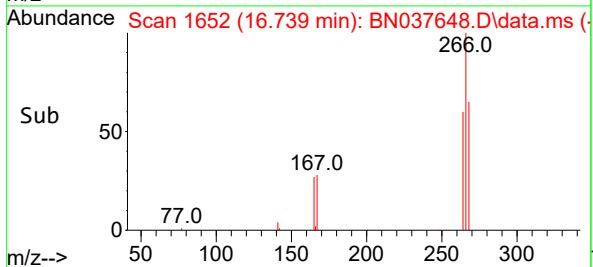
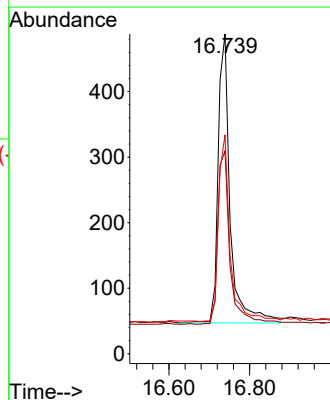
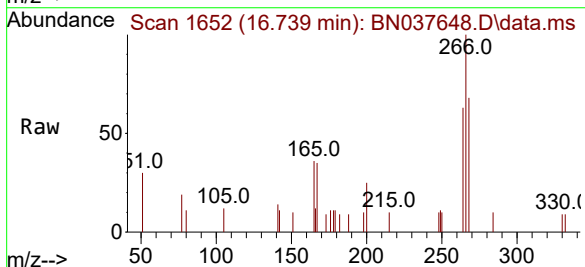
Tgt Ion:266 Resp: 910

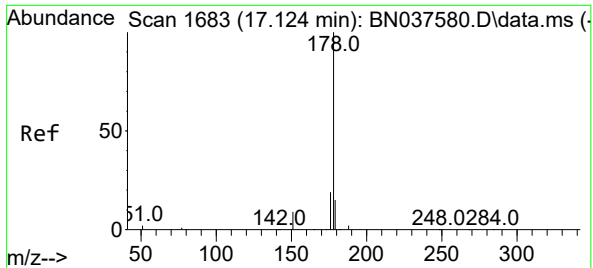
Ion Ratio Lower Upper

266 100

264 61.0 49.6 74.4

268 63.0 49.2 73.8

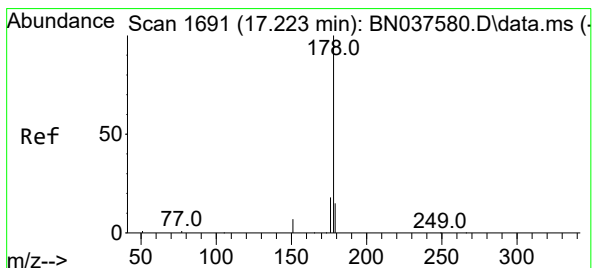
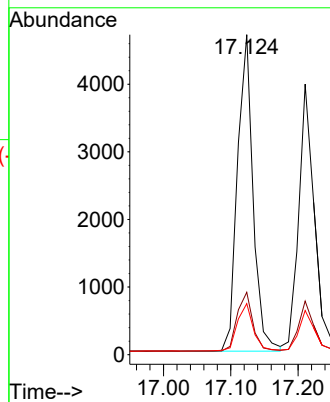
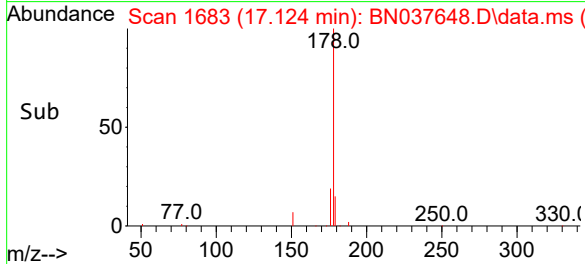
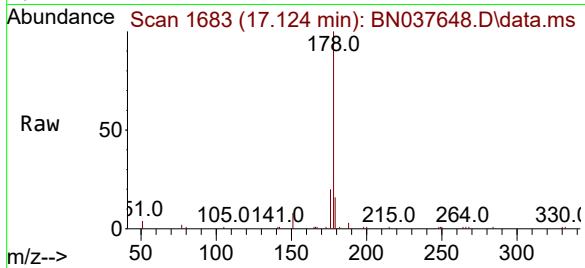




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

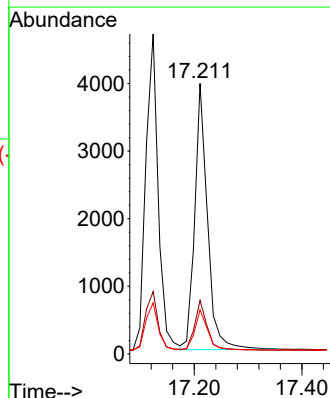
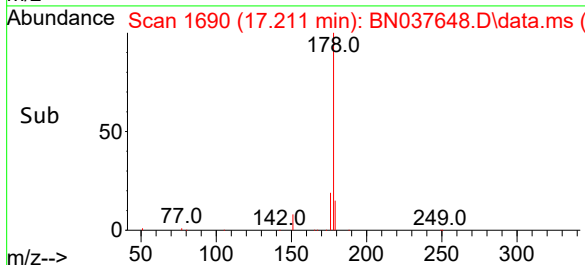
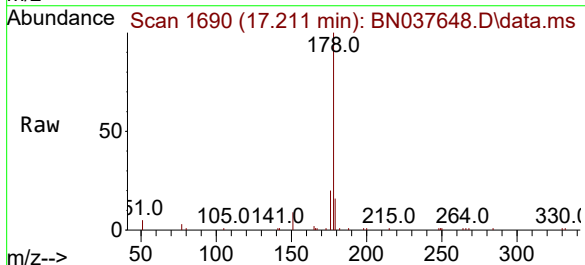
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

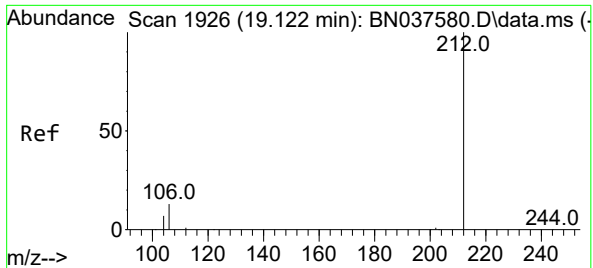
Tgt Ion:178 Resp: 7546
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.373 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:178 Resp: 6491
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.2 12.3 18.5

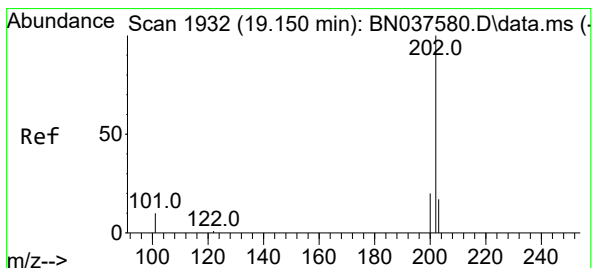
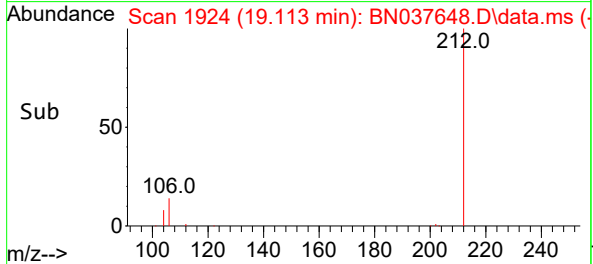
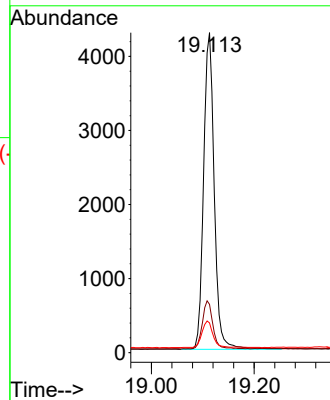
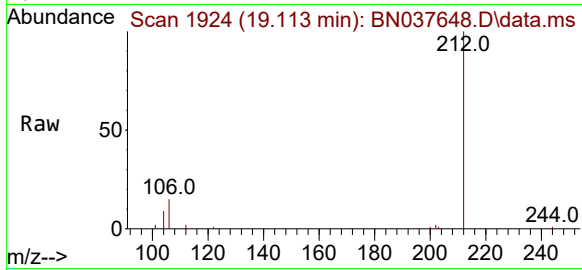




#27
Fluoranthene-d10
Concen: 0.361 ng
RT: 19.113 min Scan# 1913
Delta R.T. -0.009 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

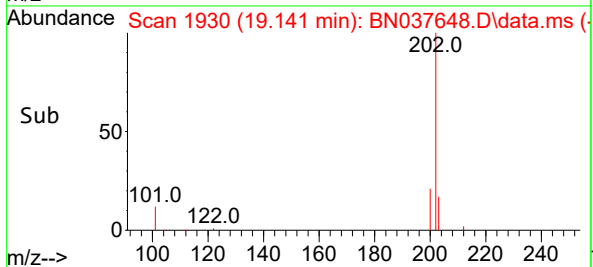
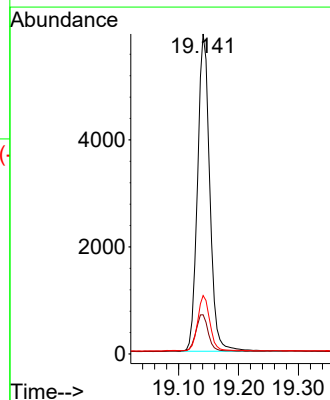
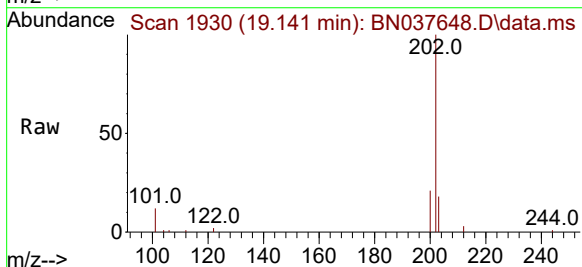
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

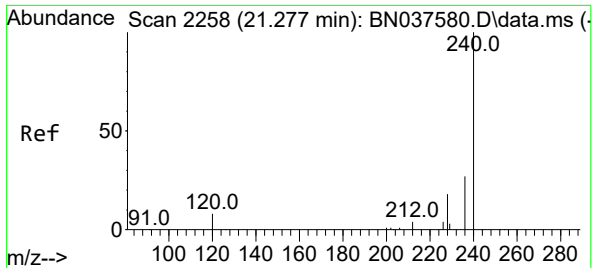
Tgt Ion:212 Resp: 6145
Ion Ratio Lower Upper
212 100
106 15.2 11.5 17.3
104 8.8 6.6 9.8



#28
Fluoranthene
Concen: 0.372 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:202 Resp: 8400
Ion Ratio Lower Upper
202 100
101 12.0 9.0 13.6
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.259 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

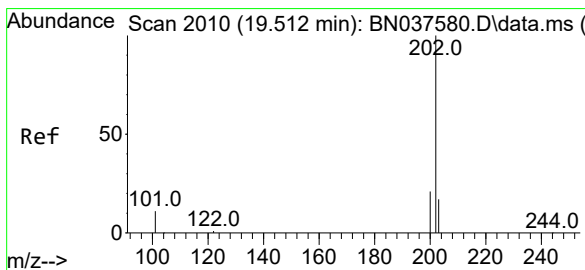
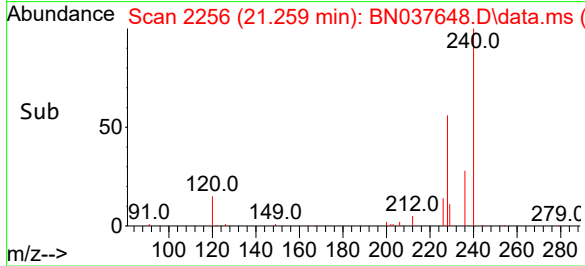
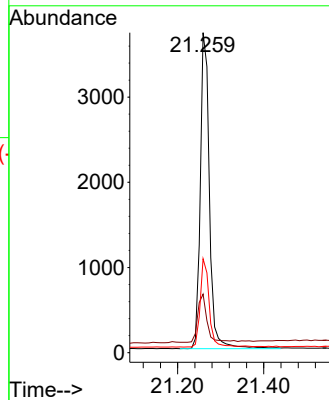
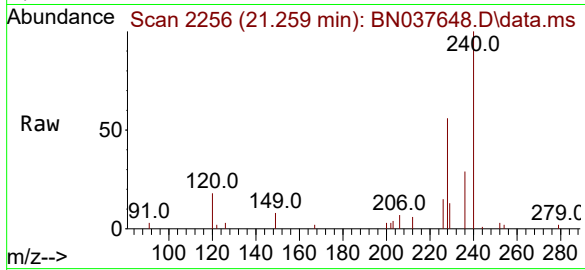
Tgt Ion:240 Resp: 5486

Ion Ratio Lower Upper

240 100

120 18.3 8.9 13.3#

236 29.4 22.6 33.8



#30

Pyrene

Concen: 0.398 ng

RT: 19.503 min Scan# 2008

Delta R.T. -0.009 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

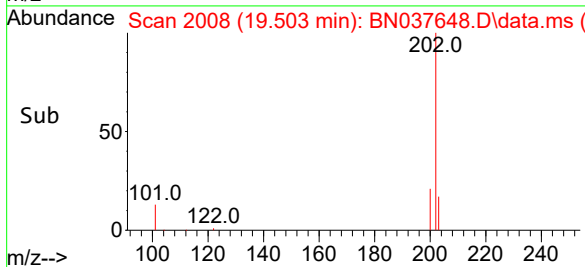
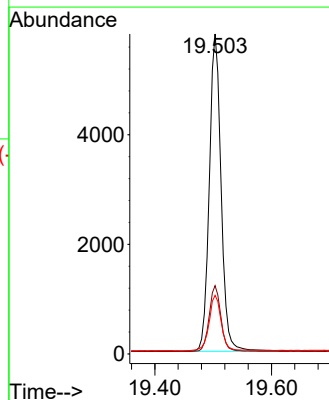
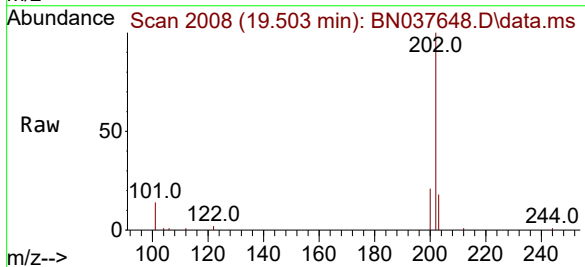
Tgt Ion:202 Resp: 8158

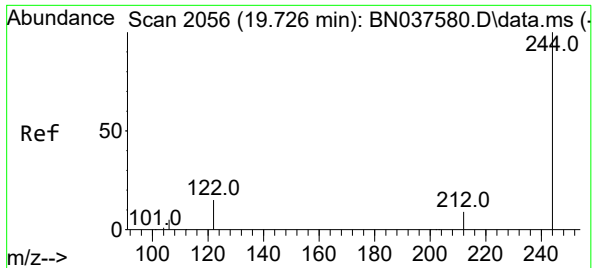
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 18.1 14.3 21.5

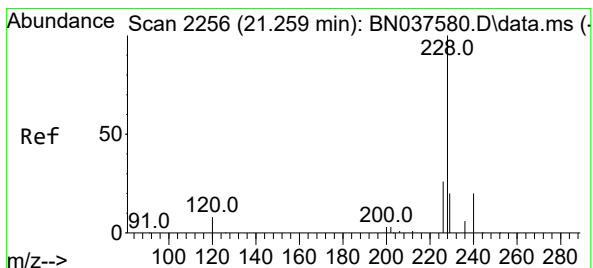
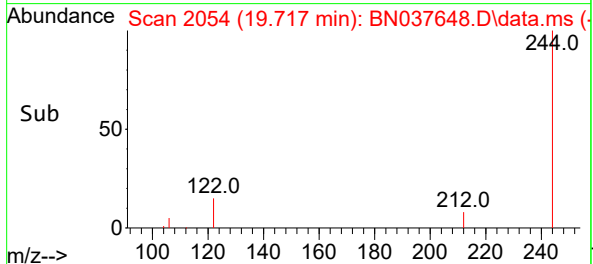
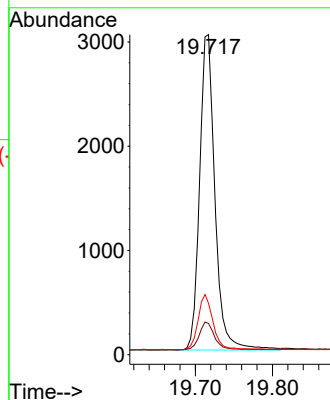
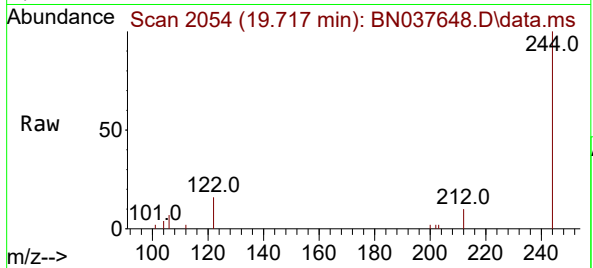




#31
Terphenyl-d14
Concen: 0.371 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

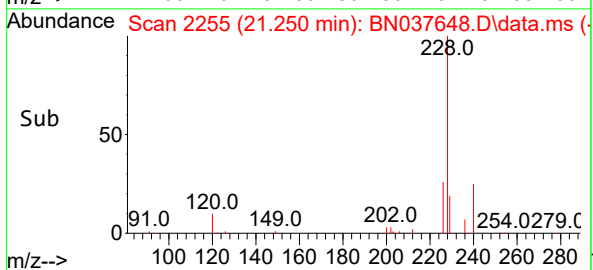
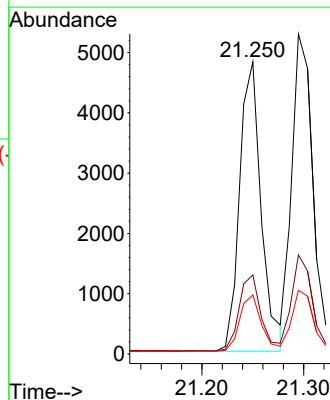
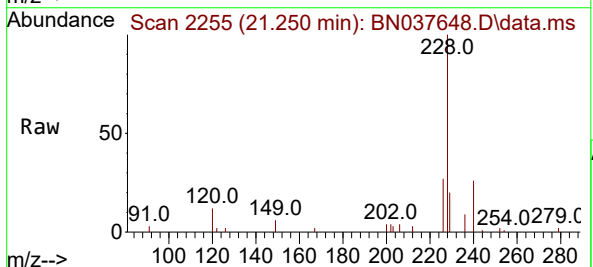
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

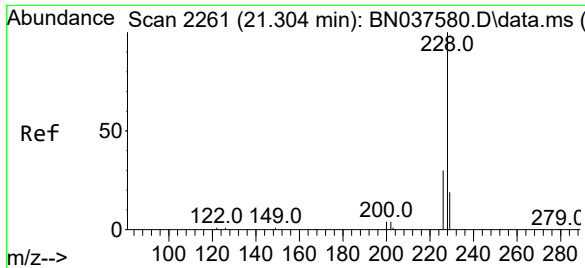
Tgt Ion:244 Resp: 4183
Ion Ratio Lower Upper
244 100
212 9.7 8.2 12.2
122 16.1 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:228 Resp: 7074
Ion Ratio Lower Upper
228 100
226 27.0 21.5 32.3
229 20.2 16.5 24.7





#33

Chrysene

Concen: 0.385 ng

RT: 21.295 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

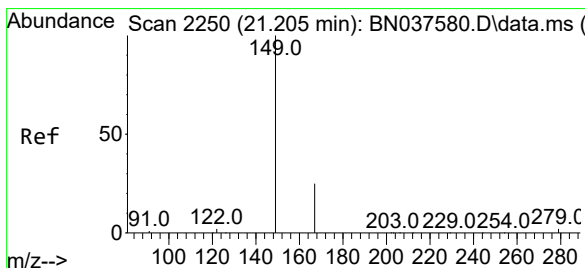
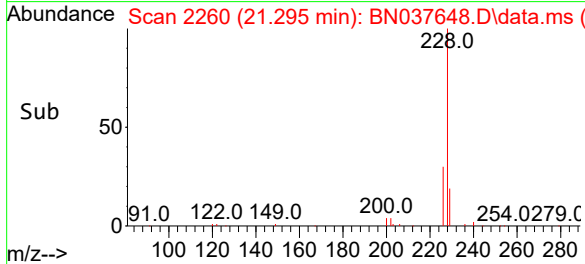
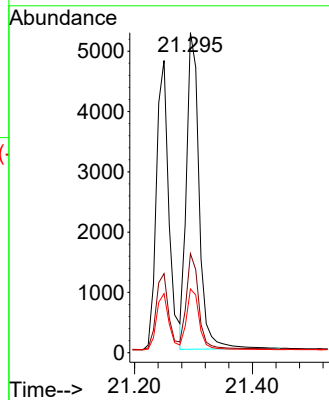
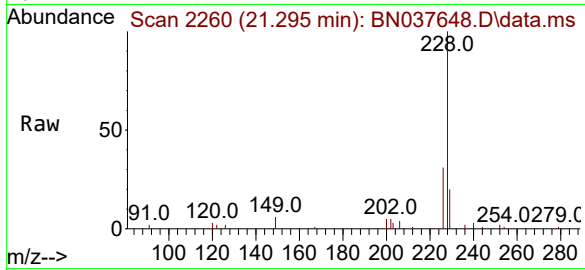
Tgt Ion:228 Resp: 7853

Ion Ratio Lower Upper

228 100

226 30.9 24.9 37.3

229 19.9 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.444 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

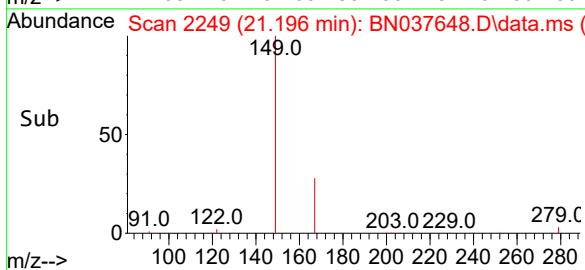
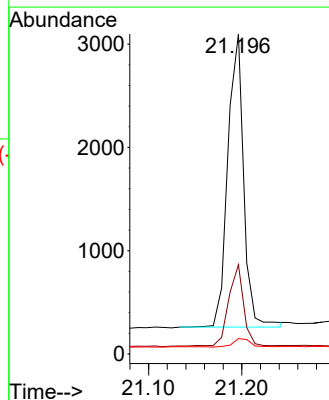
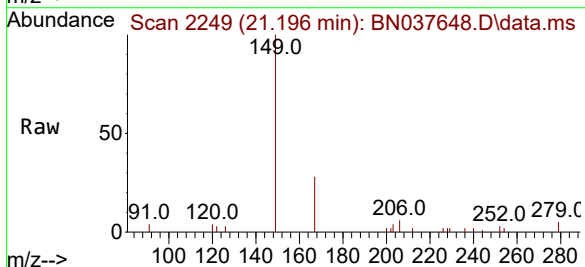
Tgt Ion:149 Resp: 3355

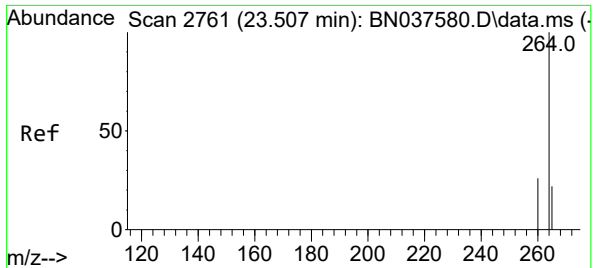
Ion Ratio Lower Upper

149 100

167 25.9 20.5 30.7

279 3.2 2.6 4.0

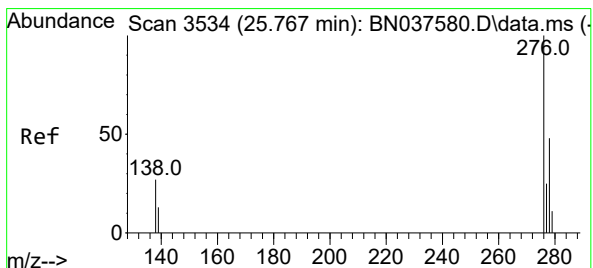
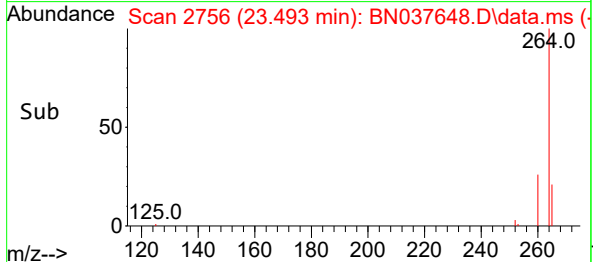
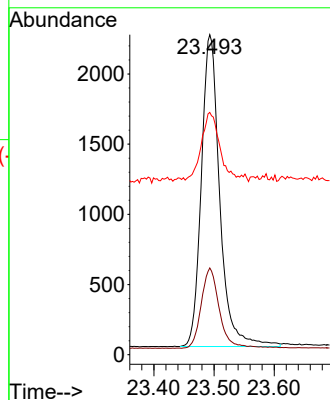
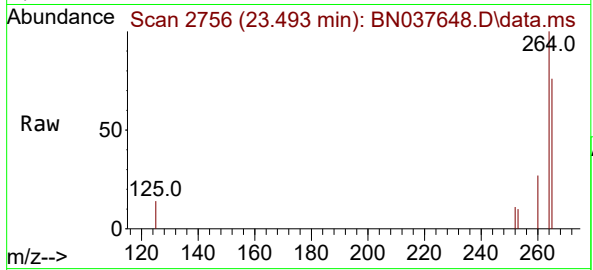




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.493 min Scan# 21
Delta R.T. -0.014 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

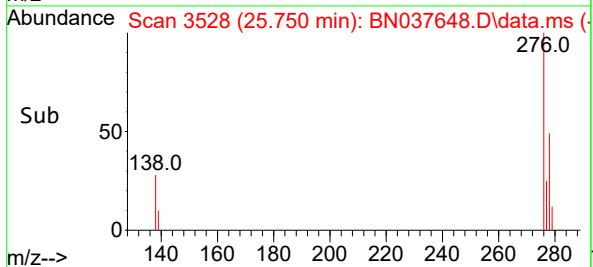
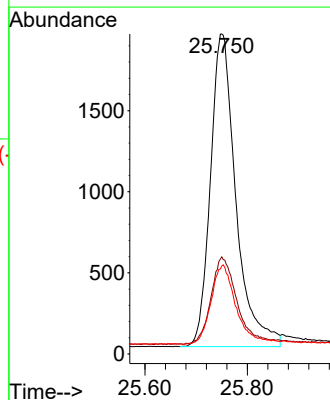
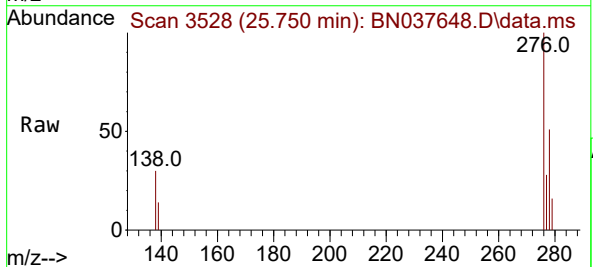
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

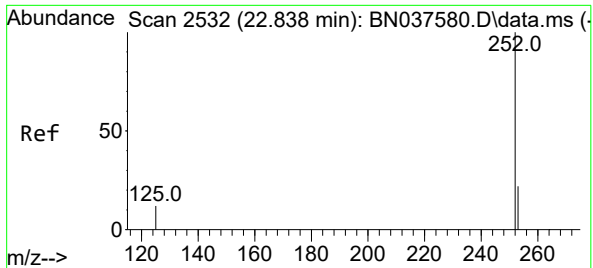
Tgt Ion:264 Resp: 4720
Ion Ratio Lower Upper
264 100
260 27.1 21.6 32.4
265 75.7 48.2 72.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.335 ng
RT: 25.750 min Scan# 3528
Delta R.T. -0.017 min
Lab File: BN037648.D
Acq: 28 Aug 2025 09:29

Tgt Ion:276 Resp: 6658
Ion Ratio Lower Upper
276 100
138 28.4 23.3 34.9
277 25.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.398 ng

RT: 22.823 min Scan# 2527

Delta R.T. -0.014 min

Lab File: BN037648.D

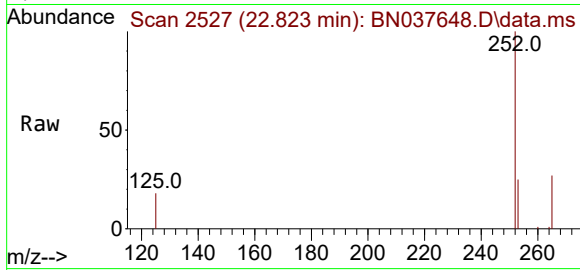
Acq: 28 Aug 2025 09:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



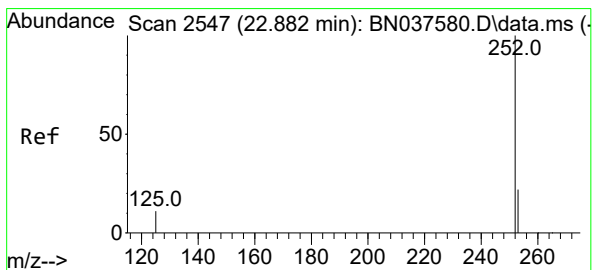
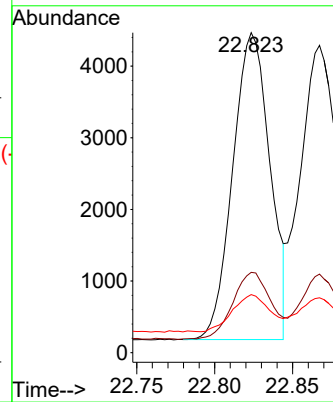
Tgt Ion:252 Resp: 7118

Ion Ratio Lower Upper

252 100

253 25.1 20.0 30.0

125 18.1 13.8 20.6



#38

Benzo(k)fluoranthene

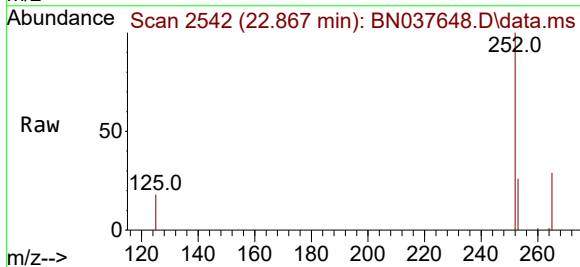
Concen: 0.367 ng

RT: 22.867 min Scan# 2542

Delta R.T. -0.014 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29



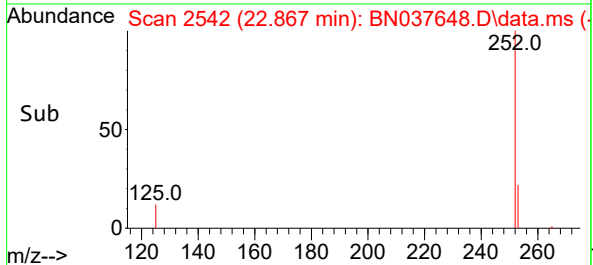
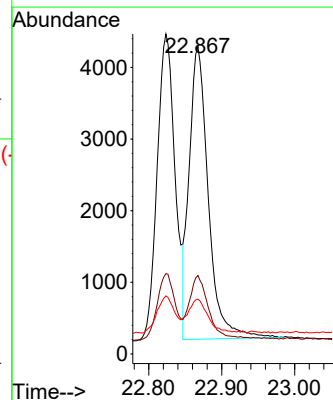
Tgt Ion:252 Resp: 7415

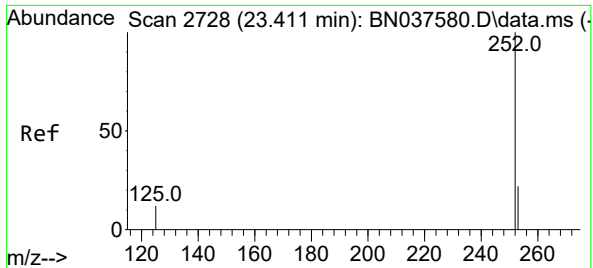
Ion Ratio Lower Upper

252 100

253 25.5 19.9 29.9

125 17.9 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.377 ng

RT: 23.396 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

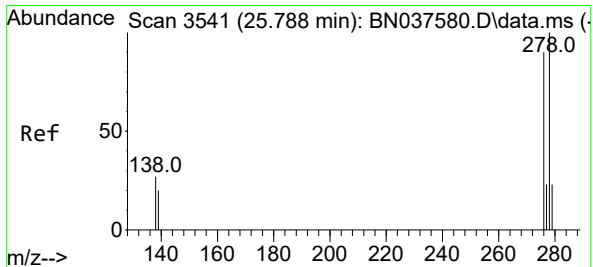
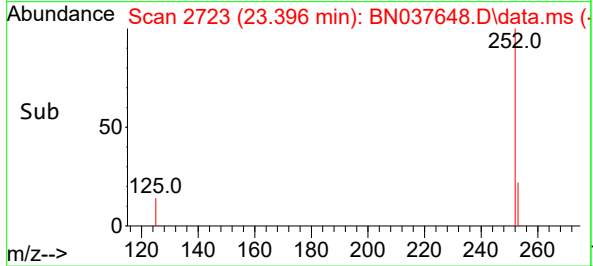
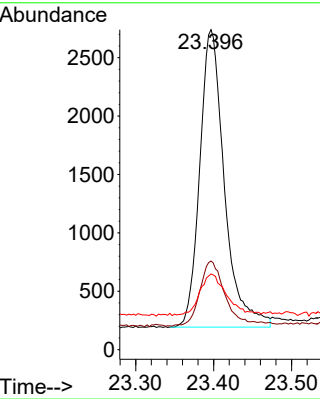
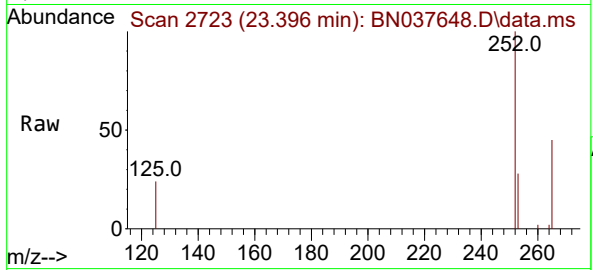
Tgt Ion:252 Resp: 5593

Ion	Ratio	Lower	Upper
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252	100		
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253	27.7	21.6	32.4
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125	23.6	16.8	25.2
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#40

Dibenzo(a,h)anthracene

Concen: 0.307 ng

RT: 25.768 min Scan# 3534

Delta R.T. -0.020 min

Lab File: BN037648.D

Acq: 28 Aug 2025 09:29

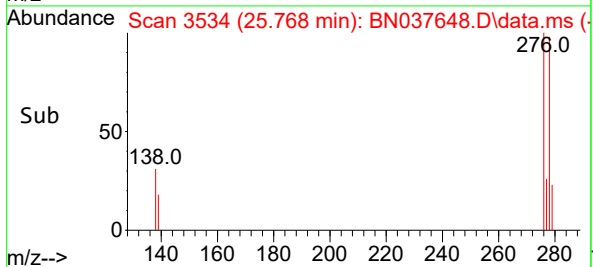
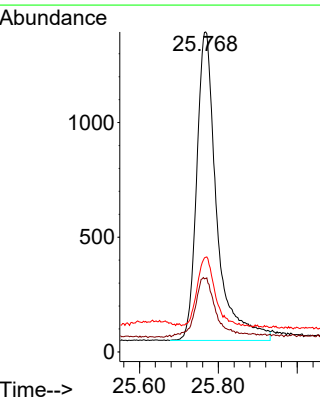
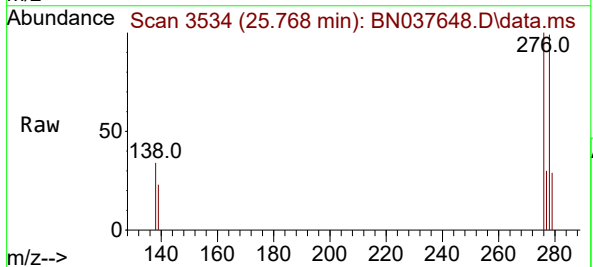
Tgt Ion:278 Resp: 4739

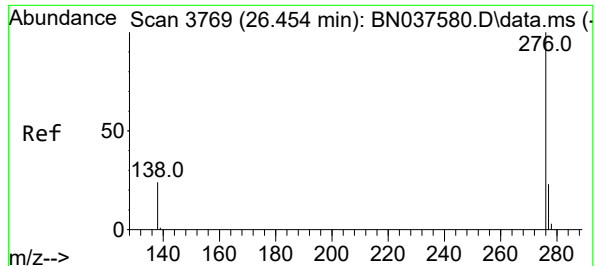
Ion	Ratio	Lower	Upper
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278	100		
-----	-----	--	--

139	23.0	18.3	27.5
-----	------	------	------

279	29.6	22.5	33.7
-----	------	------	------





#41

Benzo(g,h,i)perylene

Concen: 0.405 ng

RT: 26.434 min Scan# 31

Delta R.T. -0.020 min

Lab File: BN037648.D

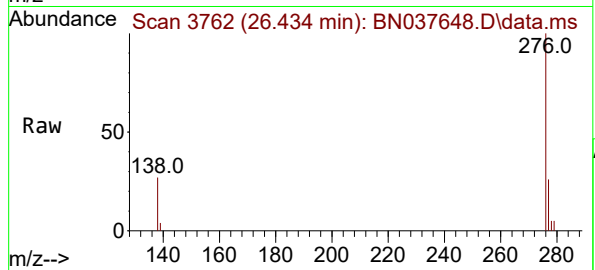
Acq: 28 Aug 2025 09:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



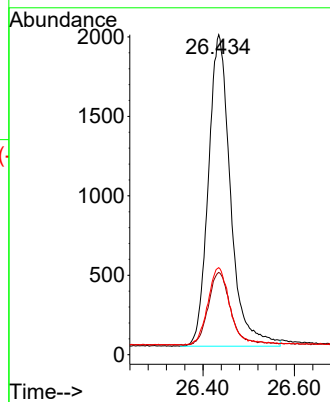
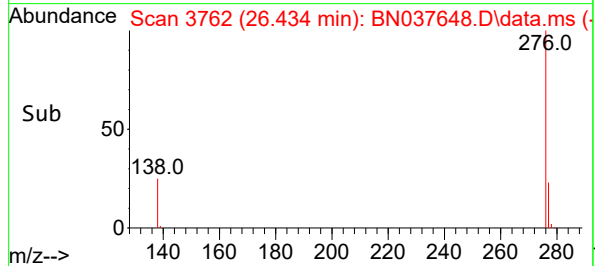
Tgt Ion:276 Resp: 6587

Ion Ratio Lower Upper

276 100

277 25.7 21.0 31.4

138 27.2 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037648.D
 Acq On : 28 Aug 2025 09:29
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 28 11:49:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 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	131	0.00
2	1,4-Dioxane	0.383	0.415	-8.4	138	0.00
3	n-Nitrosodimethylamine	0.489	0.478	2.2	129	0.00
4 S	2-Fluorophenol	0.907	0.875	3.5	129	0.00
5 S	Phenol-d6	1.091	1.043	4.4	131	0.00
6	bis(2-Chloroethyl)ether	0.983	0.999	-1.6	134	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	129	-0.01
8 S	Nitrobenzene-d5	0.282	0.280	0.7	137	-0.01
9	Naphthalene	1.065	1.057	0.8	131	-0.01
10	Hexachlorobutadiene	0.260	0.253	2.7	124	-0.01
11 SURR	2-Methylnaphthalene-d10	0.544	0.501	7.9	127	0.00
12	2-Methylnaphthalene	0.668	0.638	4.5	129	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	125	-0.01
14 S	2,4,6-Tribromophenol	0.175	0.185	-5.7	147	0.00
15 S	2-Fluorobiphenyl	2.313	2.244	3.0	122	-0.02
16	Acenaphthylene	1.793	1.759	1.9	128	-0.01
17	Acenaphthene	1.220	1.197	1.9	127	-0.01
18	Fluorene	1.596	1.570	1.6	128	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.045	15.1	127	-0.01
21	4-Bromophenyl-phenylether	0.251	0.237	5.6	130	-0.01
22	Hexachlorobenzene	0.356	0.357	-0.3	129	-0.01
23	Atrazine	0.142	0.146	-2.8	144	0.00
24	Pentachlorophenol	0.125	0.141	-12.8	159#	0.00
25	Phenanthrene	1.216	1.168	3.9	128	0.00
26	Anthracene	1.077	1.004	6.8	130	-0.01
27 SURR	Fluoranthene-d10	1.052	0.951	9.6	128	0.00
28	Fluoranthene	1.397	1.300	6.9	129	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	127	-0.02
30	Pyrene	1.495	1.487	0.5	129	0.00
31 S	Terphenyl-d14	0.823	0.762	7.4	122	0.00
32	Benzo(a)anthracene	1.336	1.289	3.5	130	0.00
33	Chrysene	1.489	1.431	3.9	127	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.612	-11.1	149	0.00
35 I	Perylene-d12	1.000	1.000	0.0	113	-0.01
36	Indeno(1,2,3-cd)pyrene	1.686	1.411	16.3	99	-0.02
37	Benzo(b)fluoranthene	1.516	1.508	0.5	127	-0.01
38	Benzo(k)fluoranthene	1.710	1.571	8.1	107	-0.01
39 C	Benzo(a)pyrene	1.257	1.185	5.7	116	-0.01
40	Dibenzo(a,h)anthracene	1.308	1.004	23.2	93	-0.02
41	Benzo(g,h,i)perylene	1.378	1.396	-1.3	125	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037648.D
 Acq On : 28 Aug 2025 09:29
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 28 11:49:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 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	131	0.00
2	1,4-Dioxane	0.400	0.434	-8.5	138	0.00
3	n-Nitrosodimethylamine	0.400	0.391	2.3	129	0.00
4 S	2-Fluorophenol	0.400	0.386	3.5	129	0.00
5 S	Phenol-d6	0.400	0.382	4.5	131	0.00
6	bis(2-Chloroethyl)ether	0.400	0.406	-1.5	134	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	129	-0.01
8 S	Nitrobenzene-d5	0.400	0.397	0.8	137	-0.01
9	Naphthalene	0.400	0.397	0.8	131	-0.01
10	Hexachlorobutadiene	0.400	0.389	2.8	124	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.369	7.8	127	0.00
12	2-Methylnaphthalene	0.400	0.382	4.5	129	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	125	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.422	-5.5	147	0.00
15 S	2-Fluorobiphenyl	0.400	0.388	3.0	122	-0.02
16	Acenaphthylene	0.400	0.392	2.0	128	-0.01
17	Acenaphthene	0.400	0.393	1.8	127	-0.01
18	Fluorene	0.400	0.393	1.8	128	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	128	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.430	-7.5	127	-0.01
21	4-Bromophenyl-phenylether	0.400	0.378	5.5	130	-0.01
22	Hexachlorobenzene	0.400	0.401	-0.3	129	-0.01
23	Atrazine	0.400	0.410	-2.5	144	0.00
24	Pentachlorophenol	0.400	0.450	-12.5	159	0.00
25	Phenanthrene	0.400	0.384	4.0	128	0.00
26	Anthracene	0.400	0.373	6.8	130	-0.01
27 SURR	Fluoranthene-d10	0.400	0.361	9.8	128	0.00
28	Fluoranthene	0.400	0.372	7.0	129	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	127	-0.02
30	Pyrene	0.400	0.398	0.5	129	0.00
31 S	Terphenyl-d14	0.400	0.371	7.3	122	0.00
32	Benzo(a)anthracene	0.400	0.386	3.5	130	0.00
33	Chrysene	0.400	0.385	3.8	127	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.444	-11.0	149	0.00
35 I	Perylene-d12	0.400	0.400	0.0	113	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.335	16.3	99	-0.02
37	Benzo(b)fluoranthene	0.400	0.398	0.5	127	-0.01
38	Benzo(k)fluoranthene	0.400	0.367	8.3	107	-0.01
39 C	Benzo(a)pyrene	0.400	0.377	5.8	116	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.307	23.3	93	-0.02
41	Benzo(g,h,i)perylene	0.400	0.405	-1.3	125	-0.02

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2937
 Instrument ID: BNA_N Calibration Date/Time: 08/28/2025 13:14
 Lab File ID: BN037654.D Init. Calib. Date(s): 08/12/2025 08/12/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:26 20:05
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.487		-10.5	50.0
Fluoranthene-d10	1.052	0.948		-9.9	50.0
2-Fluorophenol	0.907	0.826		-8.9	50.0
Phenol-d6	1.091	0.993		-9.0	50.0
Nitrobenzene-d5	0.282	0.284		0.7	50.0
2-Fluorobiphenyl	2.313	2.318		0.2	50.0
2,4,6-Tribromophenol	0.175	0.191		9.1	50.0
Terphenyl-d14	0.823	0.798		-3.0	50.0
1,4-Dioxane	0.383	0.395		3.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037654.D
 Acq On : 28 Aug 2025 13:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Aug 28 14:06:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

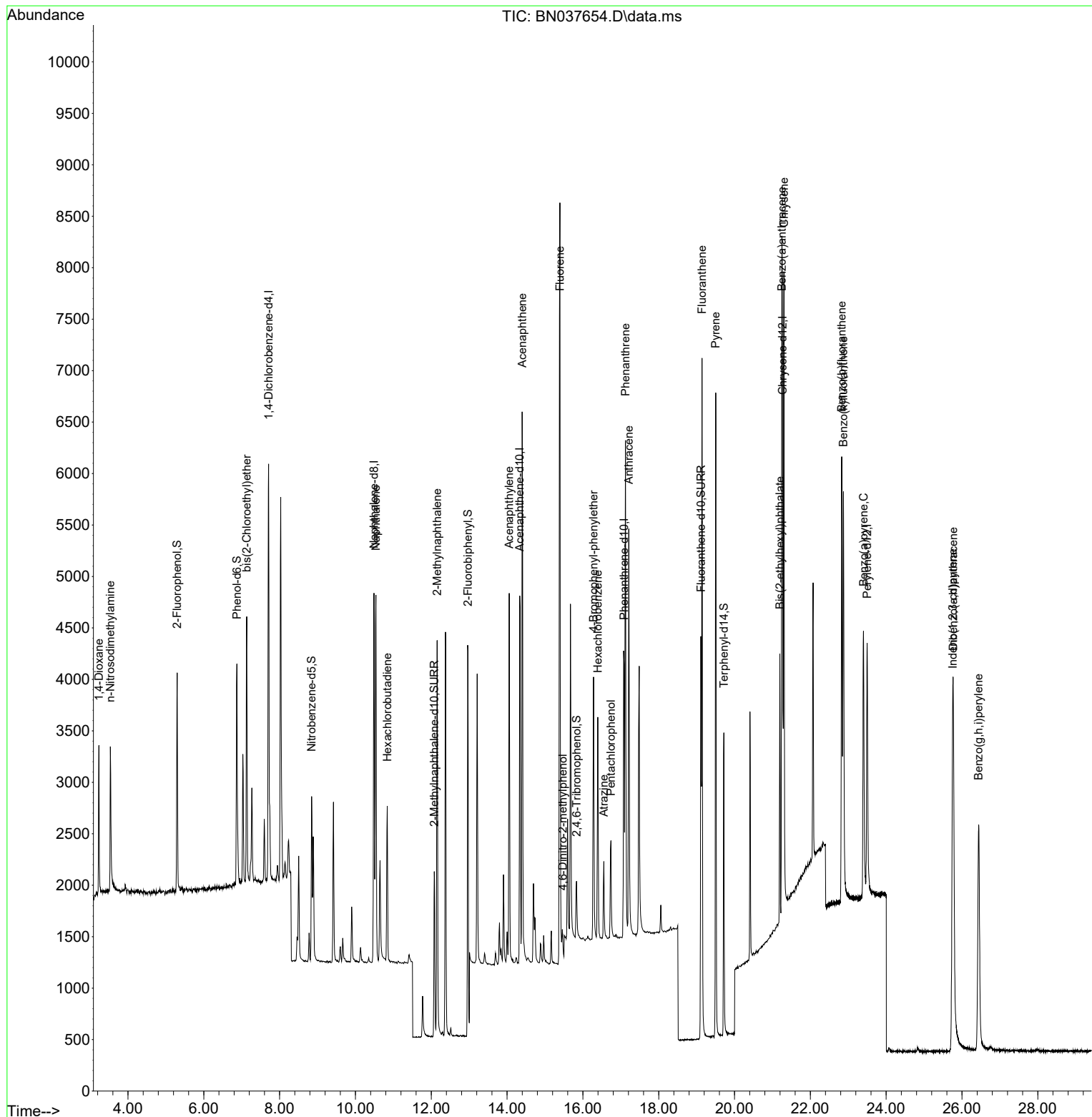
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2049	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	4725	0.400	ng	-0.01
13) Acenaphthene-d10	14.334	164	2189	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	4638	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3836	0.400	ng	# 0.00
35) Perylene-d12	23.499	264	3437	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	1693	0.364	ng	0.00
5) Phenol-d6	6.872	99	2035	0.364	ng	0.00
8) Nitrobenzene-d5	8.843	82	1343	0.404	ng	-0.01
11) 2-Methylnaphthalene-d10	12.080	152	2300	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	418	0.436	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	5073	0.401	ng	0.00
27) Fluoranthene-d10	19.113	212	4396	0.360	ng	0.00
31) Terphenyl-d14	19.717	244	3062	0.388	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.232	88	809	0.413	ng	96
3) n-Nitrosodimethylamine	3.535	42	1024	0.409	ng	# 94
6) bis(2-Chloroethyl)ether	7.132	93	1932	0.384	ng	97
9) Naphthalene	10.541	128	4951	0.394	ng	99
10) Hexachlorobutadiene	10.840	225	1298	0.422	ng	# 98
12) 2-Methylnaphthalene	12.156	142	2963	0.376	ng	99
16) Acenaphthylene	14.056	152	4019	0.410	ng	99
17) Acenaphthene	14.398	154	2675	0.401	ng	98
18) Fluorene	15.393	166	3549	0.406	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	228	0.451	ng	93
21) 4-Bromophenyl-phenylether	16.280	248	1072	0.368	ng	# 91
22) Hexachlorobenzene	16.391	284	1726	0.418	ng	96
23) Atrazine	16.553	200	702	0.426	ng	92
24) Pentachlorophenol	16.739	266	559	0.385	ng	97
25) Phenanthrene	17.124	178	5374	0.381	ng	99
26) Anthracene	17.211	178	4628	0.371	ng	99
28) Fluoranthene	19.141	202	6008	0.371	ng	99
30) Pyrene	19.503	202	5868	0.409	ng	100
32) Benzo(a)anthracene	21.250	228	4824	0.376	ng	99
33) Chrysene	21.304	228	5694	0.399	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	2408	0.455	ng	100
36) Indeno(1,2,3-cd)pyrene	25.753	276	5446	0.376	ng	99
37) Benzo(b)fluoranthene	22.829	252	5382	0.413	ng	97
38) Benzo(k)fluoranthene	22.873	252	5629	0.383	ng	98
39) Benzo(a)pyrene	23.402	252	4221	0.391	ng	# 94
40) Dibenzo(a,h)anthracene	25.770	278	3941	0.351	ng	96
41) Benzo(g,h,i)perylene	26.440	276	4886	0.413	ng	99

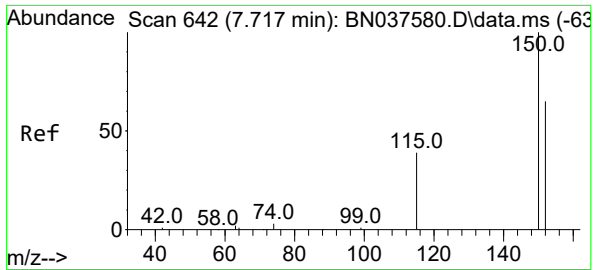
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037654.D
 Acq On : 28 Aug 2025 13:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Aug 28 14:06:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

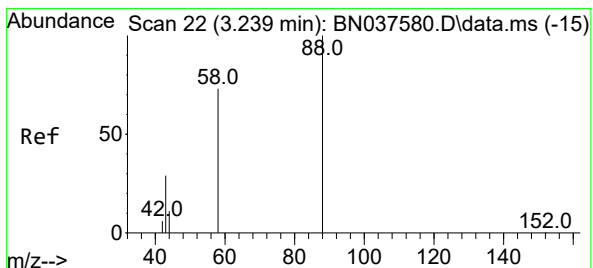
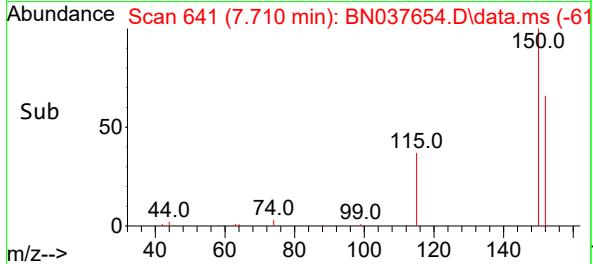
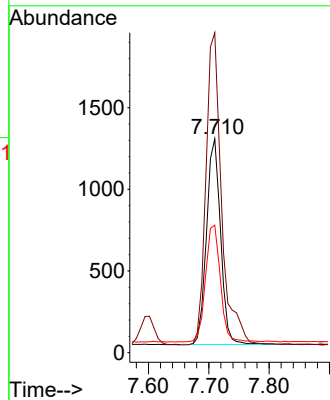
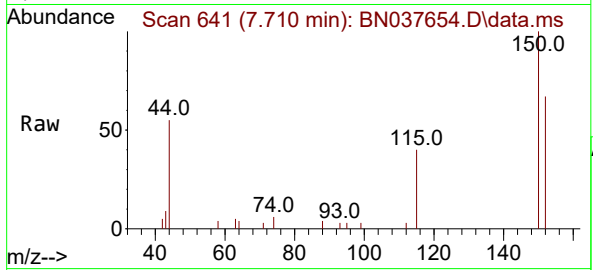




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

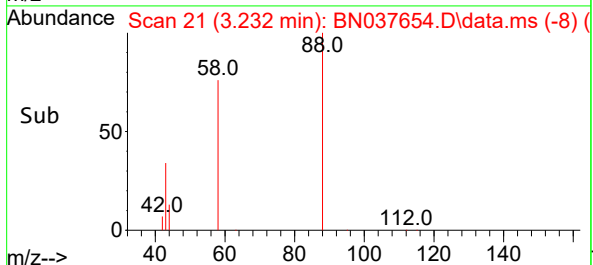
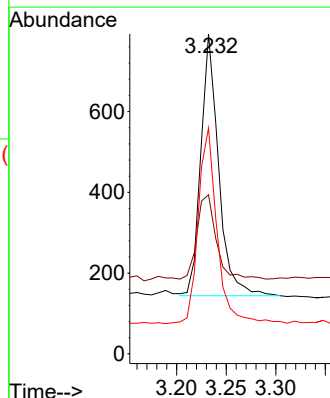
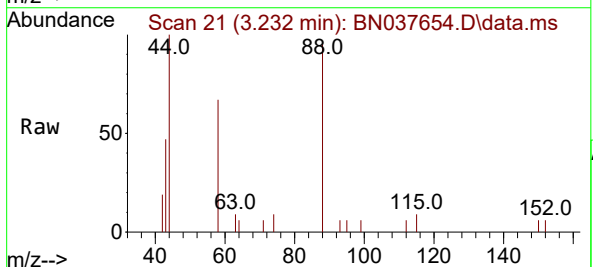
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

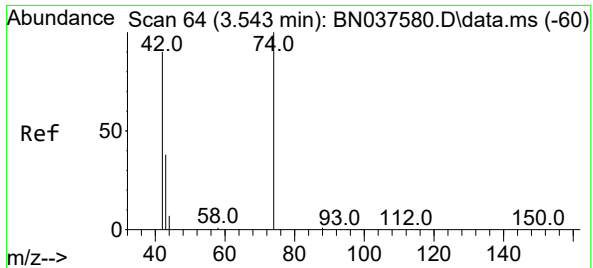
Tgt Ion:152 Resp: 2049
Ion Ratio Lower Upper
152 100
150 149.5 122.2 183.4
115 59.6 49.8 74.6



#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion: 88 Resp: 809
Ion Ratio Lower Upper
88 100
43 35.5 25.8 38.6
58 79.0 61.2 91.8

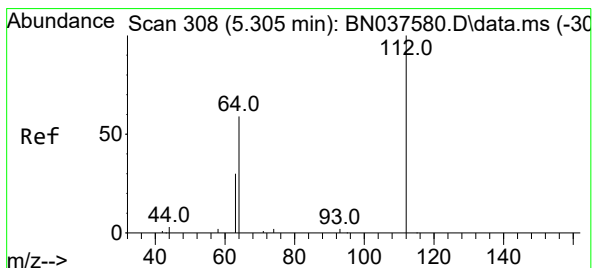
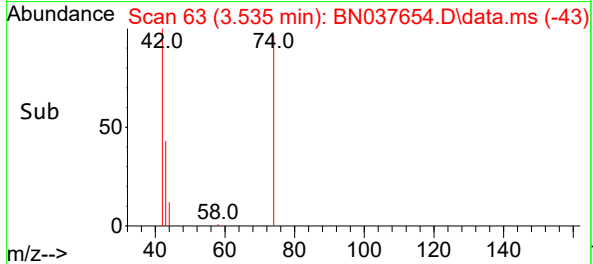
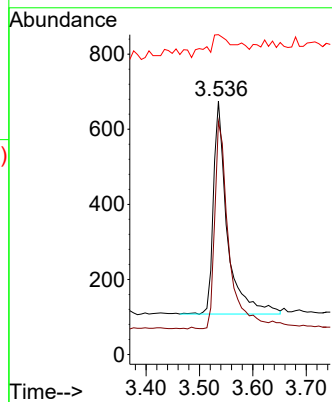
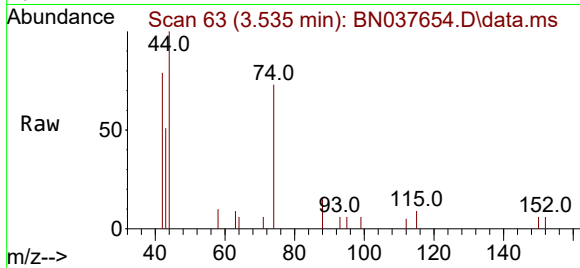




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

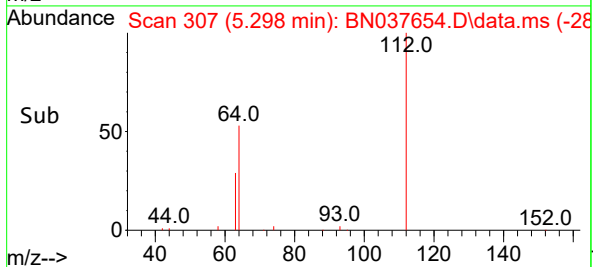
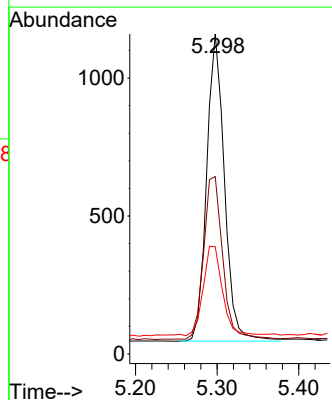
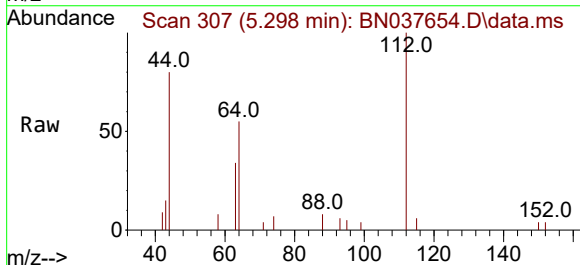
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

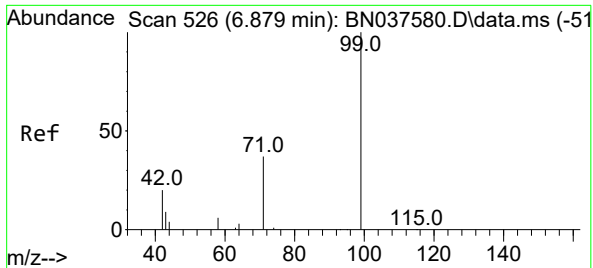
Tgt Ion: 42 Resp: 1024
Ion Ratio Lower Upper
42 100
74 97.9 82.0 123.0
44 16.9 7.9 11.9#



#4
2-Fluorophenol
Concen: 0.364 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.007 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion: 112 Resp: 1693
Ion Ratio Lower Upper
112 100
64 57.3 44.9 67.3
63 33.0 23.4 35.2

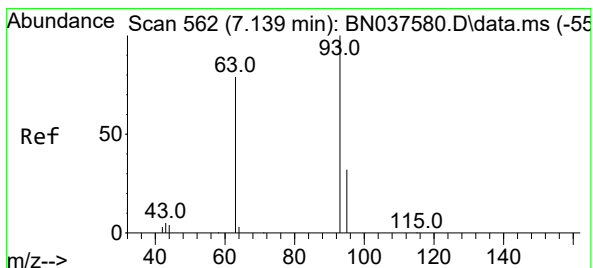
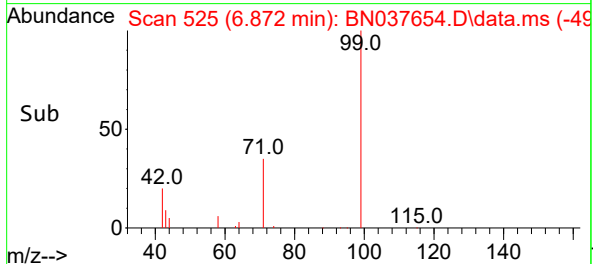
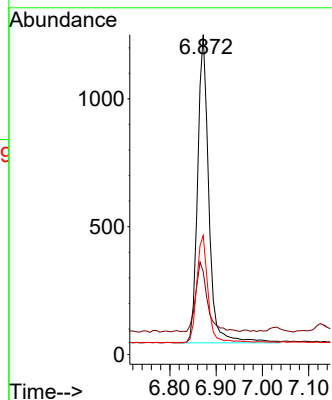
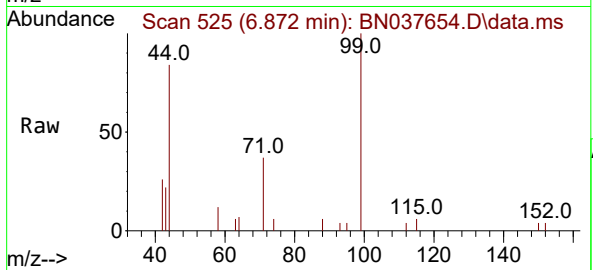




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

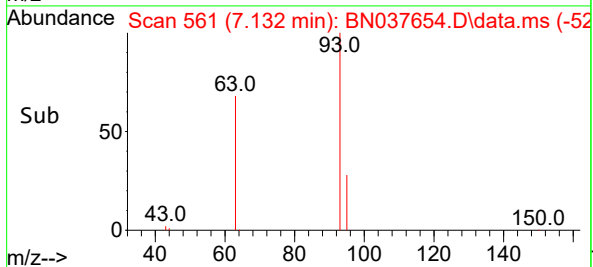
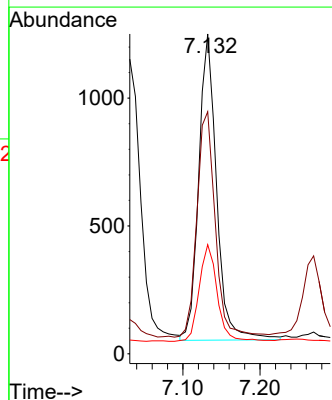
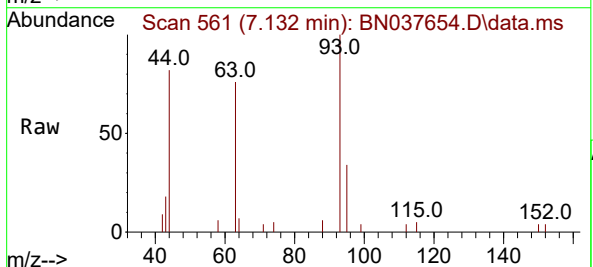
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

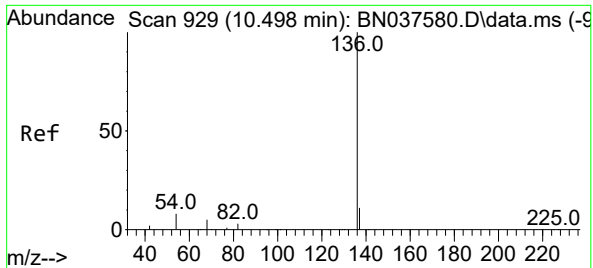
Tgt Ion: 99 Resp: 2035
Ion Ratio Lower Upper
99 100
42 23.2 18.5 27.7
71 34.6 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion: 93 Resp: 1932
Ion Ratio Lower Upper
93 100
63 75.4 58.0 87.0
95 31.9 24.9 37.3

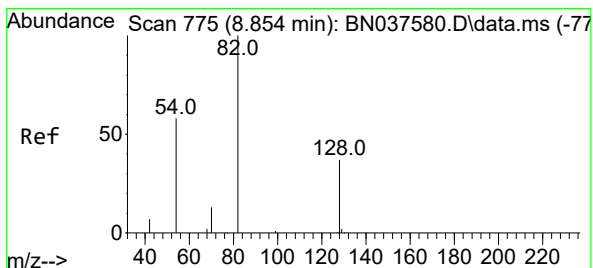
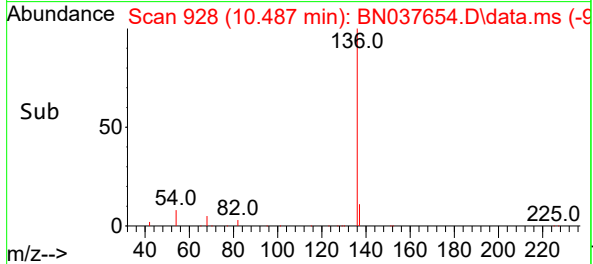
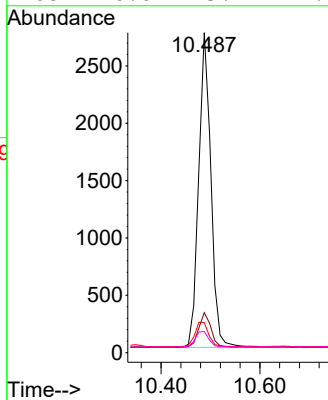
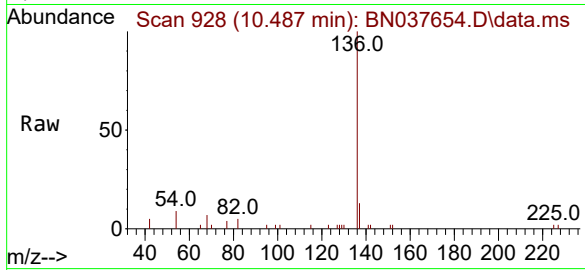




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

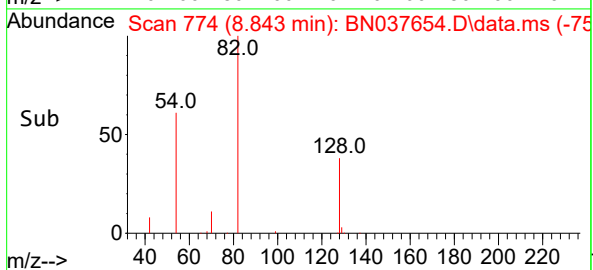
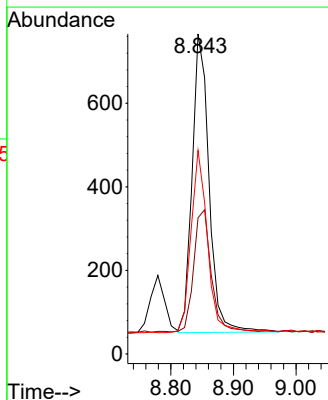
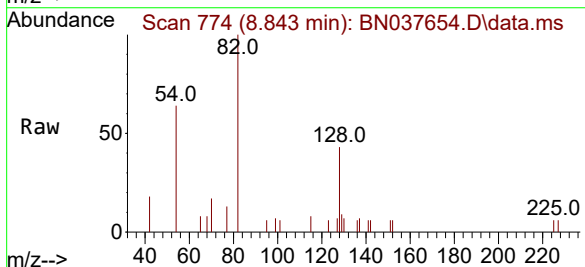
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ClientSampleId :
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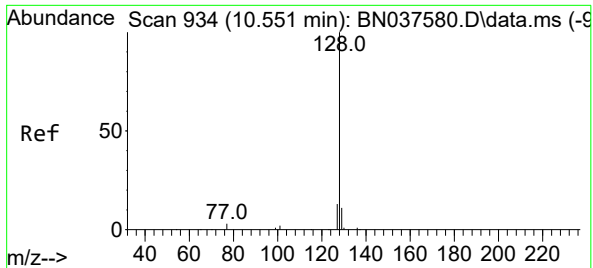
Tgt Ion:	136	Resp:	4725
Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.5	14.3
54	9.4	7.3	10.9
68	6.6	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.404 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.010 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:	82	Resp:	1343
Ion	Ratio	Lower	Upper
82	100		
128	42.6	32.6	48.8
54	63.6	48.9	73.3

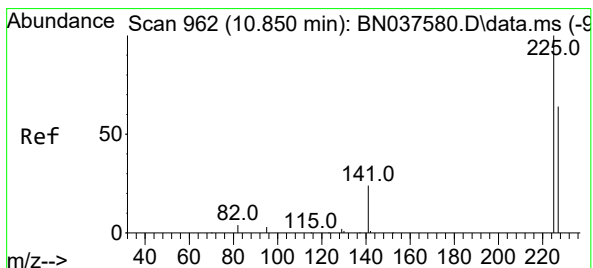
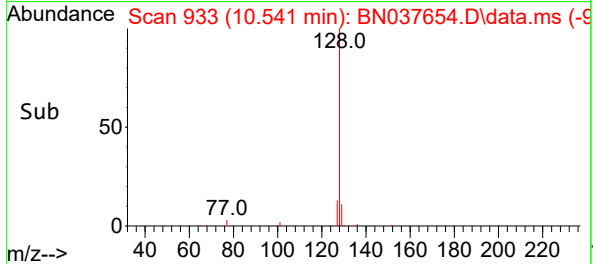
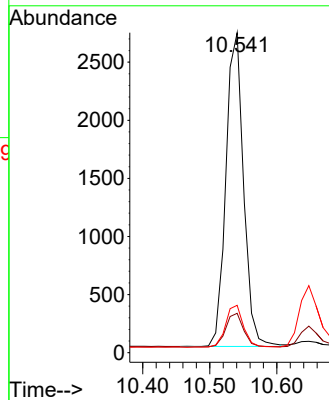
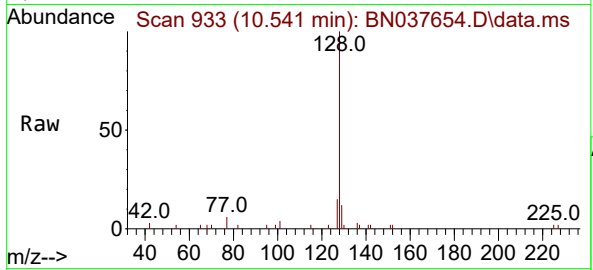




#9
Naphthalene
Concen: 0.394 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

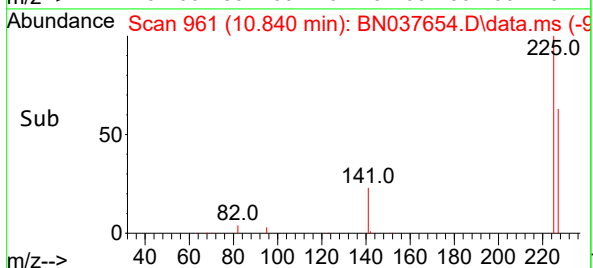
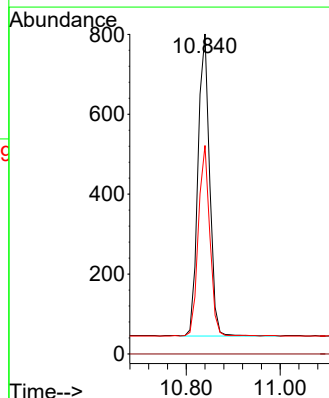
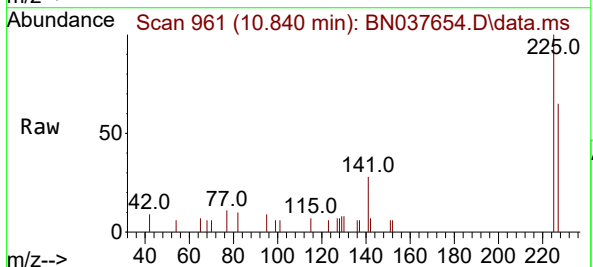
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

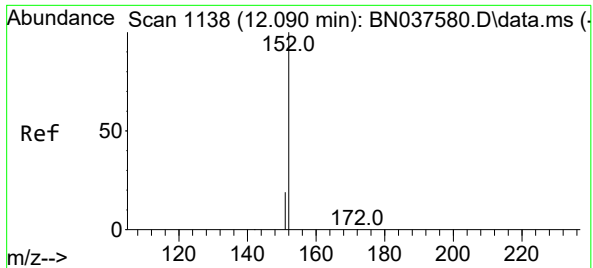
Tgt Ion:	128	Resp:	4951
Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.8	14.6
127	14.8	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.422 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:	225	Resp:	1298
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.9	50.8	76.2

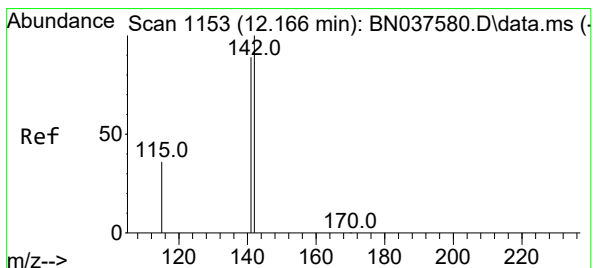
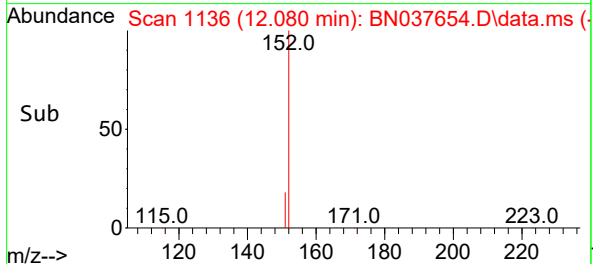
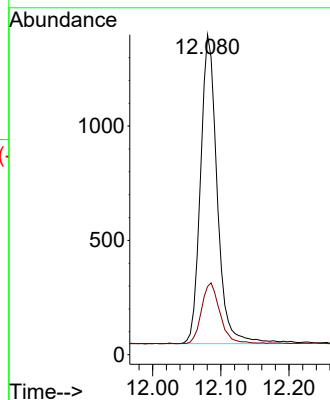
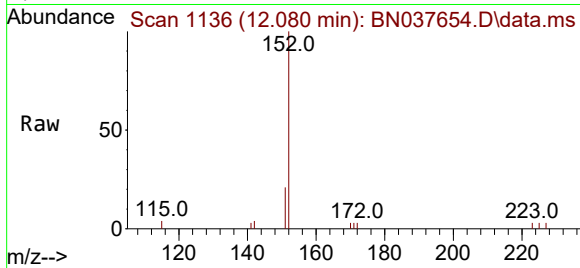




#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 12.080 min Scan# 1138
Delta R.T. -0.010 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

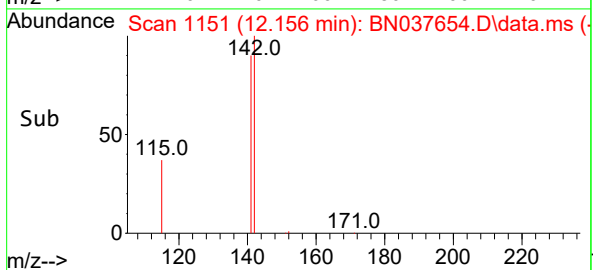
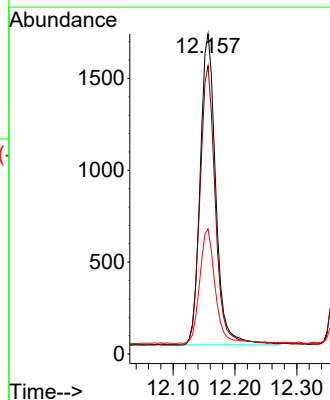
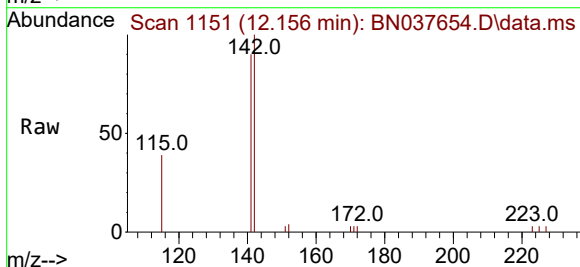
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

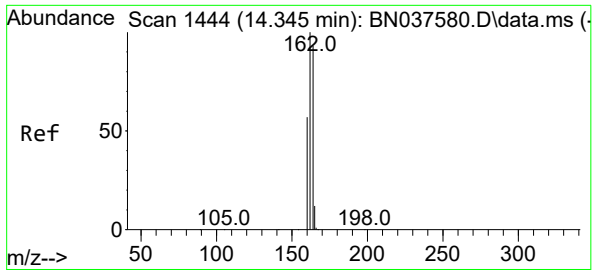
Tgt Ion:152 Resp: 2300
Ion Ratio Lower Upper
152 100
151 21.7 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.376 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:142 Resp: 2963
Ion Ratio Lower Upper
142 100
141 90.0 71.4 107.0
115 39.0 30.2 45.4

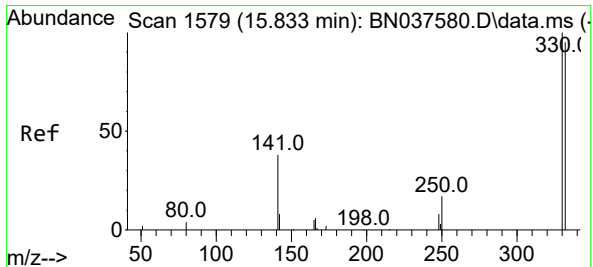
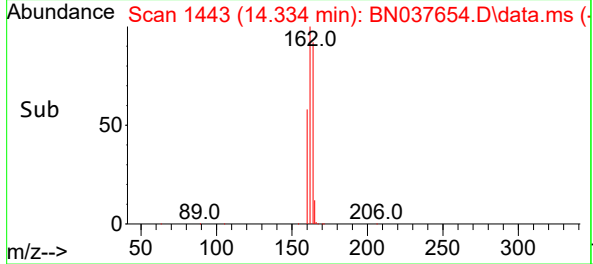
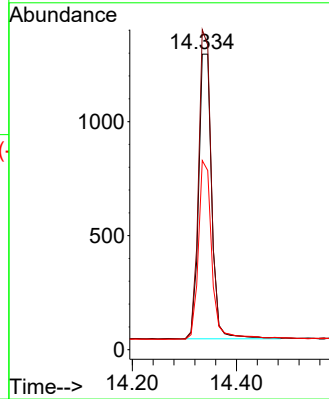
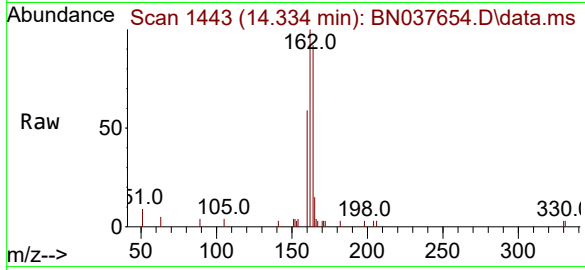




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1444
Delta R.T. -0.011 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

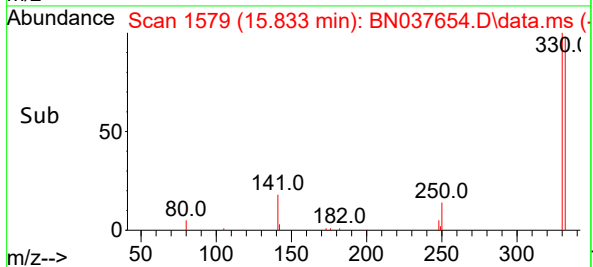
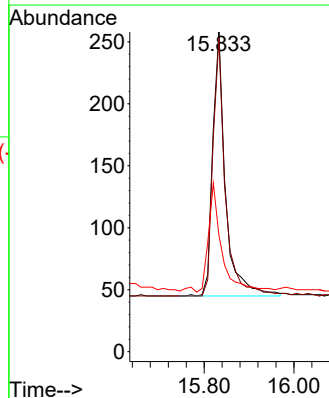
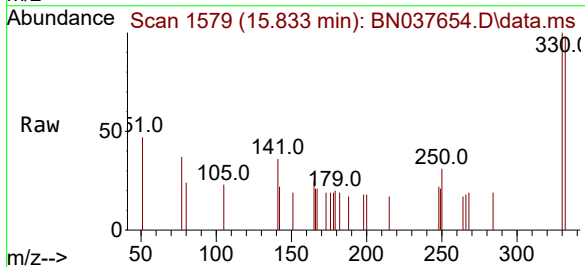
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

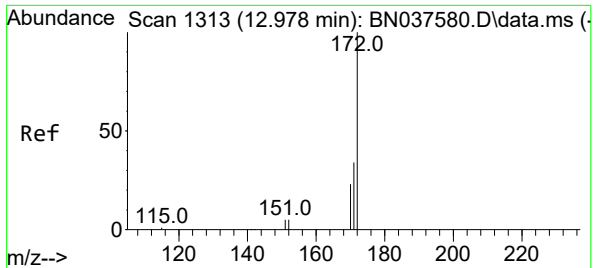
Tgt Ion:164 Resp: 2189
Ion Ratio Lower Upper
164 100
162 108.3 85.5 128.3
160 64.0 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.436 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:330 Resp: 418
Ion Ratio Lower Upper
330 100
332 94.7 77.4 116.0
141 41.9 30.9 46.3

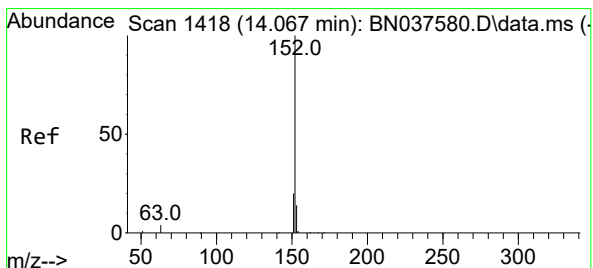
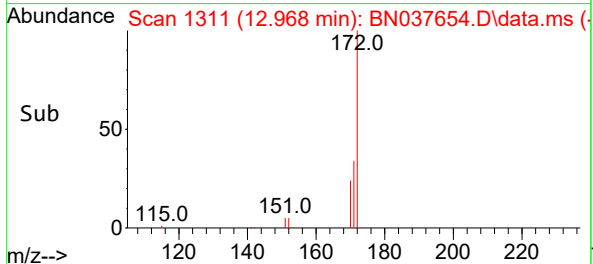
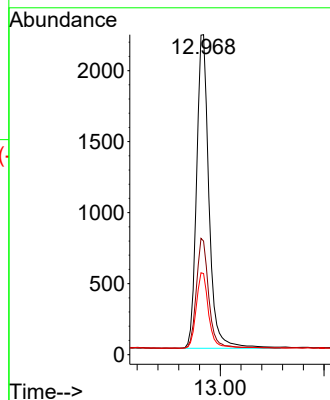
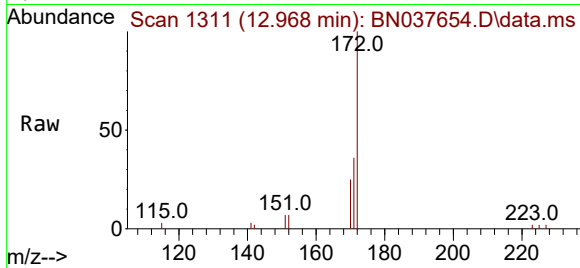




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

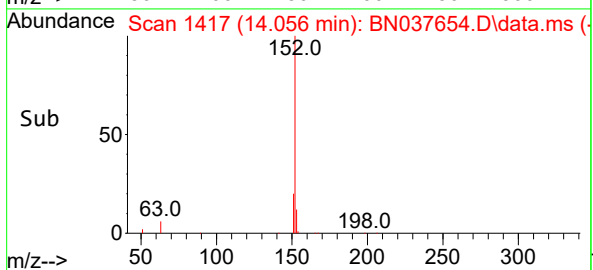
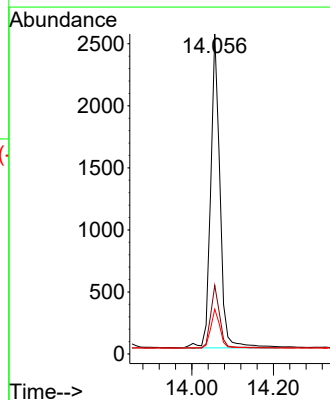
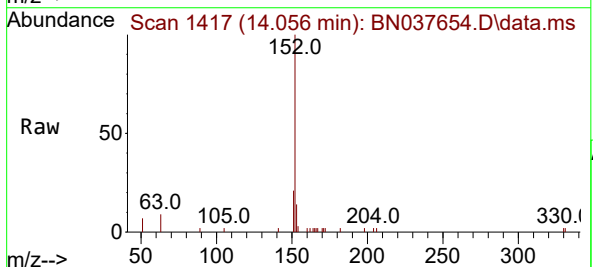
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

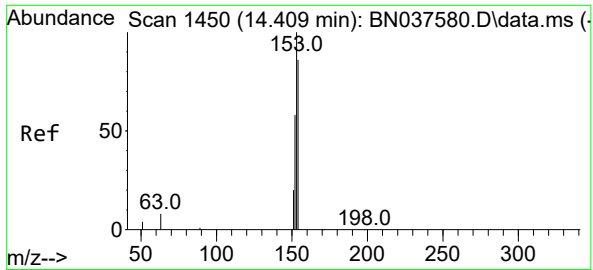
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.2	42.4
170	25.3	19.2	28.8



#16
Acenaphthylene
Concen: 0.410 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	12.8	10.7	16.1

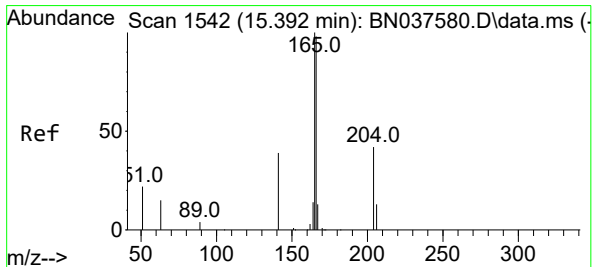
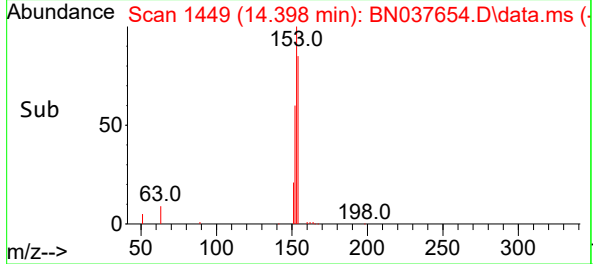
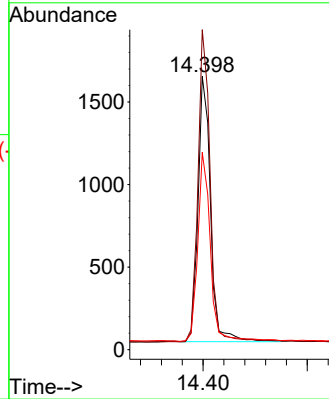
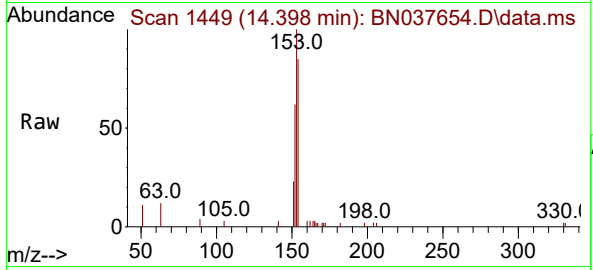




#17
Acenaphthene
Concen: 0.401 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

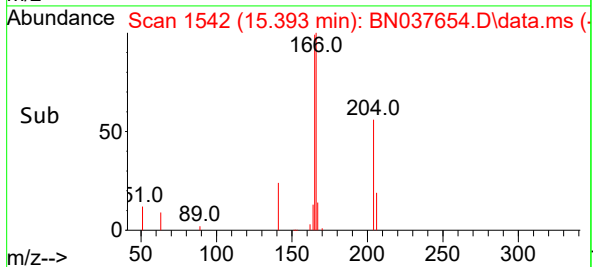
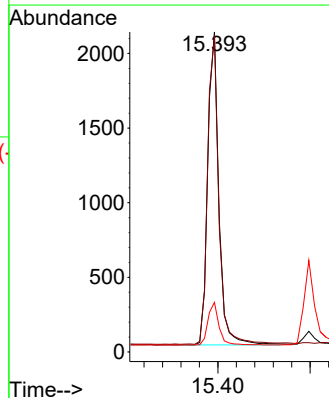
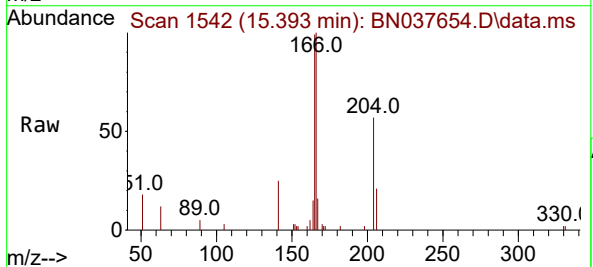
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

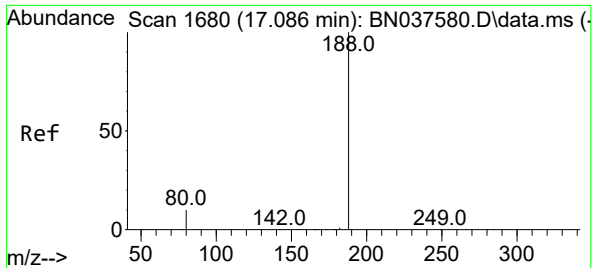
Tgt Ion:154 Resp: 2675
Ion Ratio Lower Upper
154 100
153 114.7 90.6 135.8
152 71.8 54.9 82.3



#18
Fluorene
Concen: 0.406 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:166 Resp: 3549
Ion Ratio Lower Upper
166 100
165 98.3 78.9 118.3
167 13.6 10.7 16.1

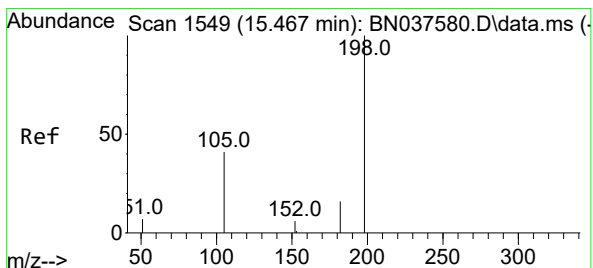
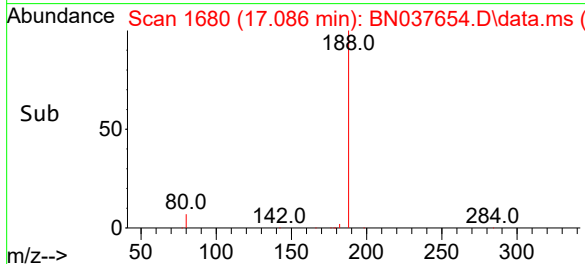
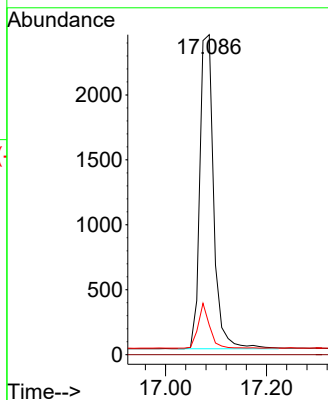
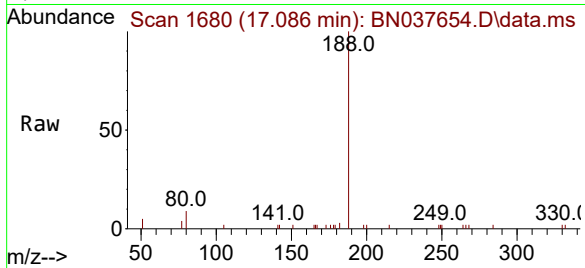




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

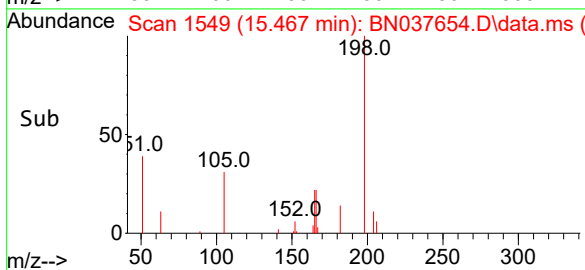
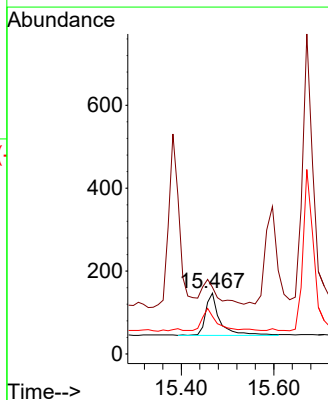
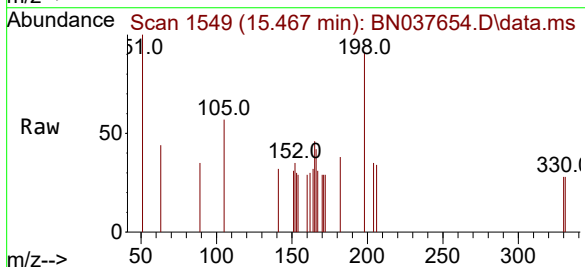
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

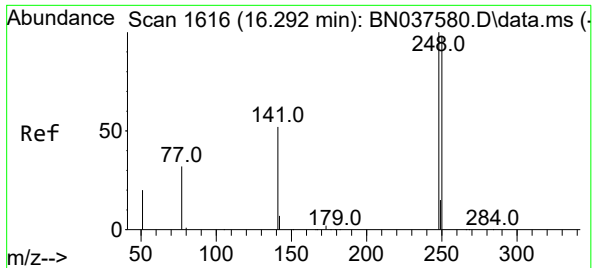
Tgt Ion:188 Resp: 4638
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.3 9.1 13.7



#20
4,6-Dinitro-2-methylphenol
Concen: 0.451 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:198 Resp: 228
Ion Ratio Lower Upper
198 100
51 109.5 81.0 121.6
105 61.9 52.5 78.7

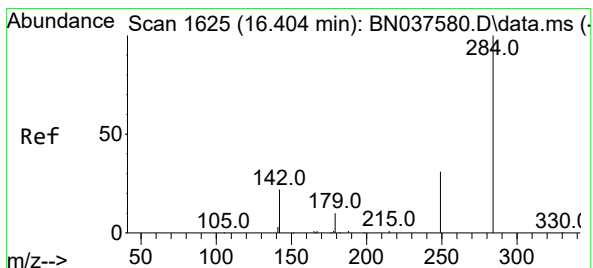
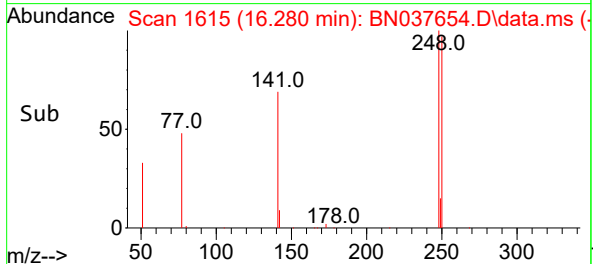
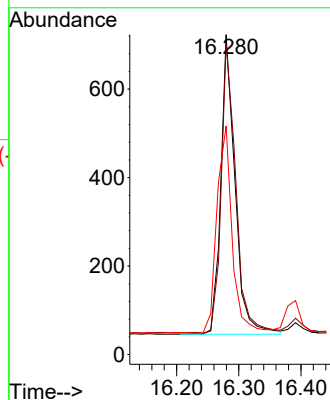
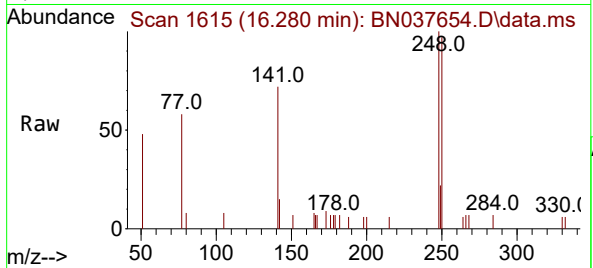




#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

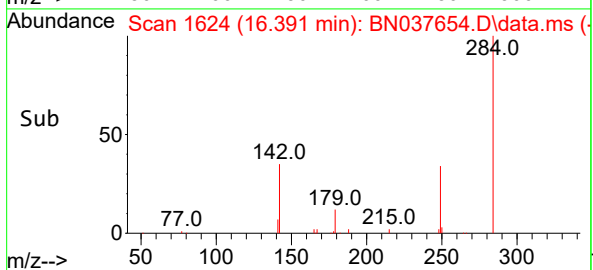
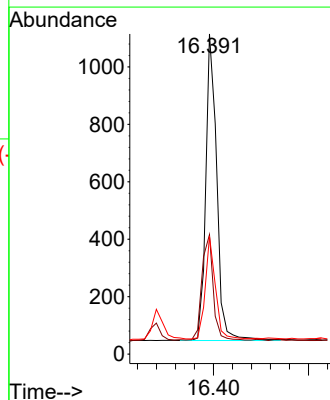
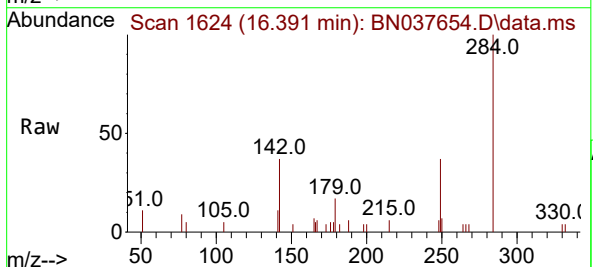
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

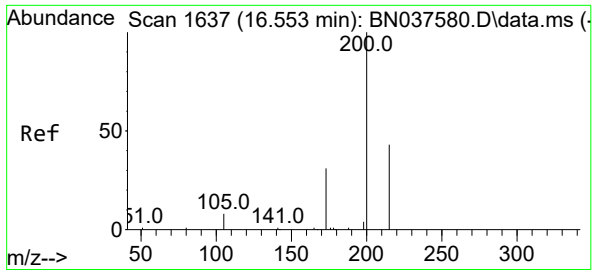
Tgt Ion:248 Resp: 1072
Ion Ratio Lower Upper
248 100
250 97.2 78.6 118.0
141 71.5 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.418 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:284 Resp: 1726
Ion Ratio Lower Upper
284 100
142 34.9 29.8 44.6
249 30.5 26.0 39.0

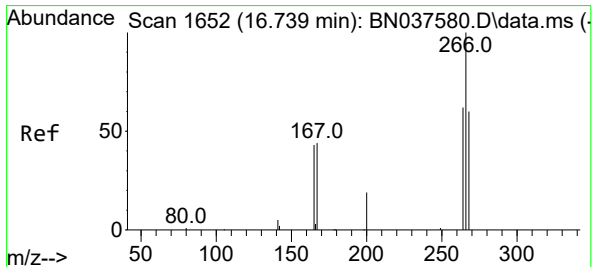
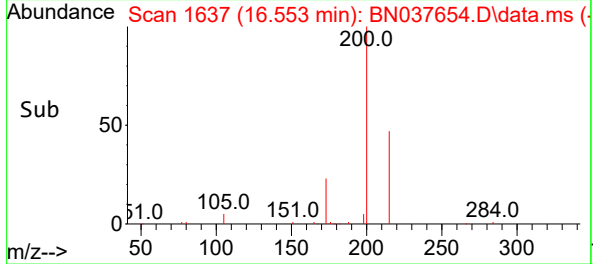
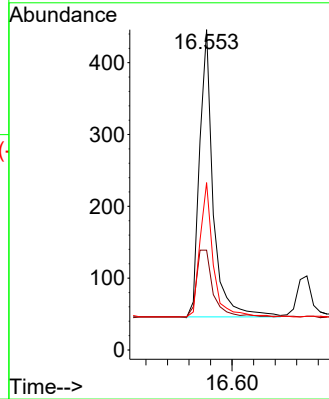
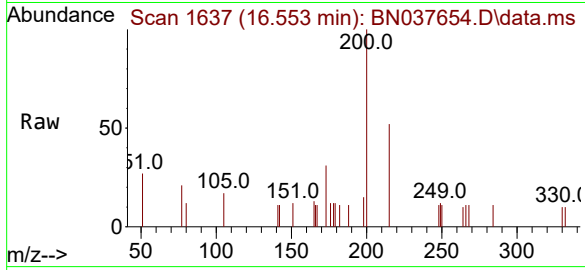




#23
Atrazine
Concen: 0.426 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

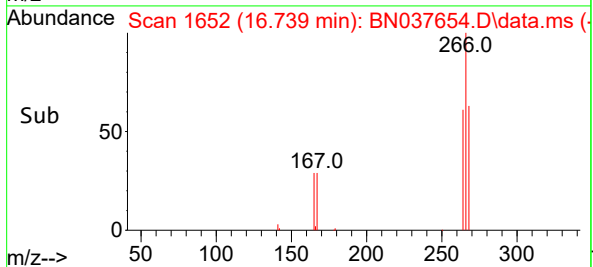
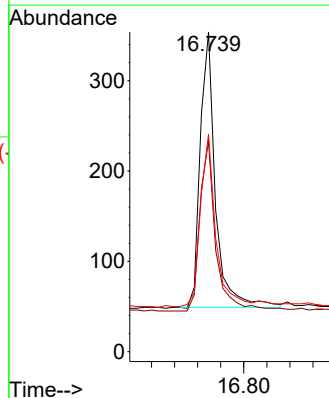
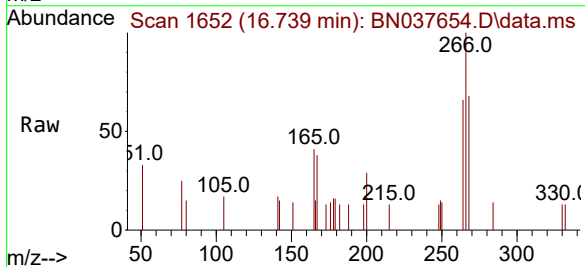
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

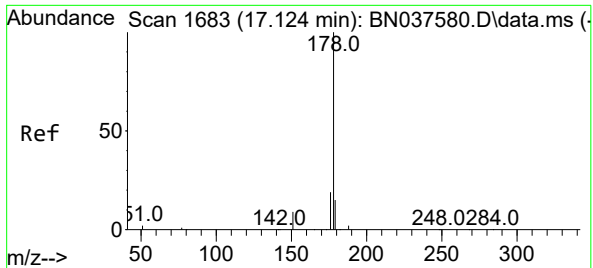
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.2	31.0	46.4
215	52.2	39.4	59.0



#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.4	49.6	74.4
268	64.4	49.2	73.8

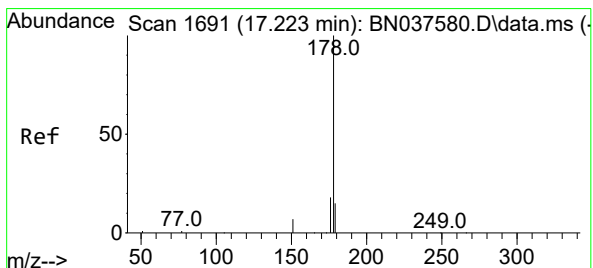
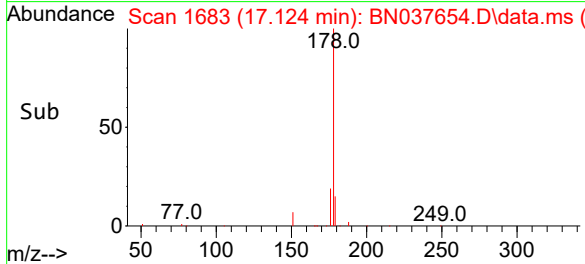
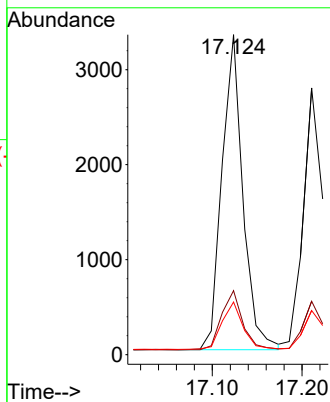
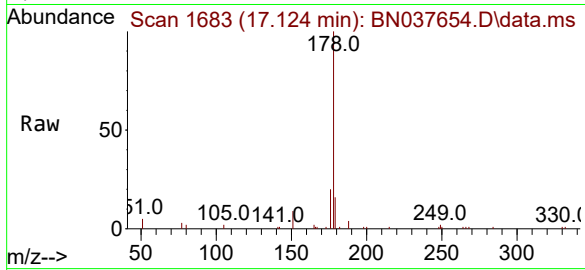




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

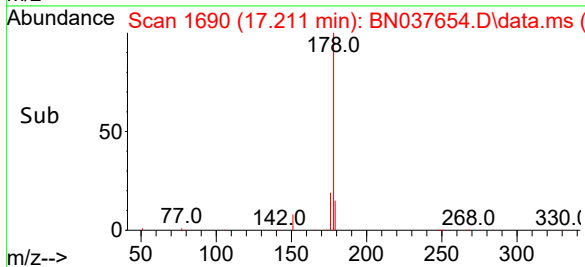
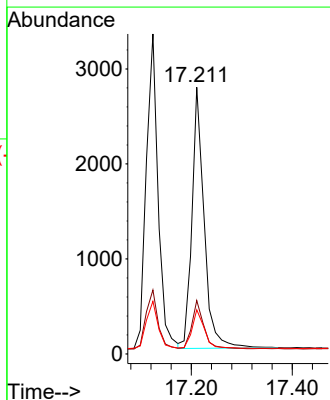
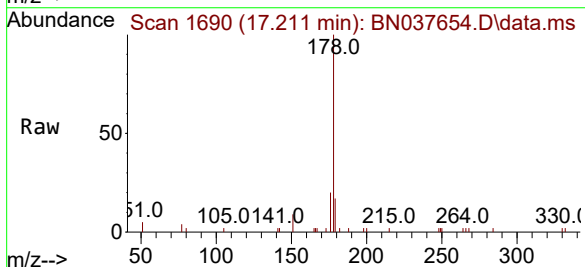
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

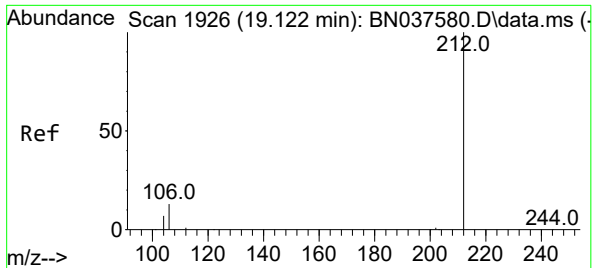
Tgt Ion:178 Resp: 5374
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 16.1 12.3 18.5



#26
Anthracene
Concen: 0.371 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:178 Resp: 4628
Ion Ratio Lower Upper
178 100
176 18.1 14.7 22.1
179 14.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.360 ng

RT: 19.113 min Scan# 1924

Delta R.T. -0.009 min

Lab File: BN037654.D

Acq: 28 Aug 2025 13:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

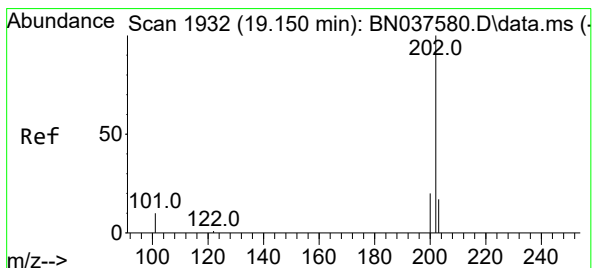
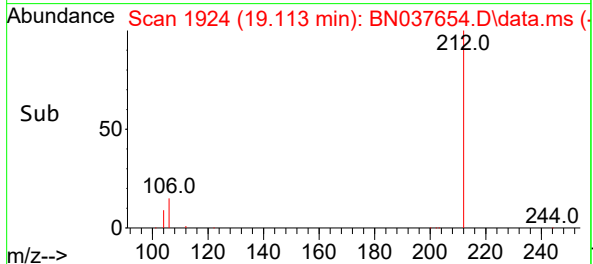
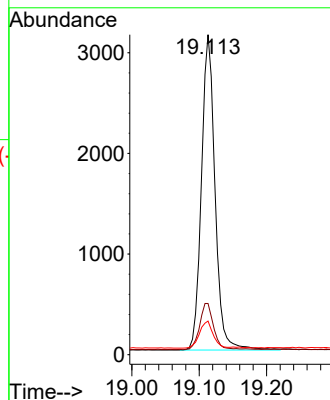
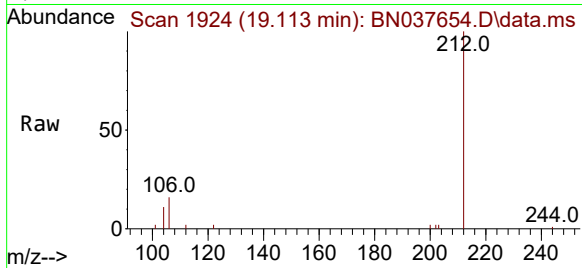
Tgt Ion:212 Resp: 4396

Ion Ratio Lower Upper

212 100

106 14.7 11.5 17.3

104 8.5 6.6 9.8



#28

Fluoranthene

Concen: 0.371 ng

RT: 19.141 min Scan# 1930

Delta R.T. -0.009 min

Lab File: BN037654.D

Acq: 28 Aug 2025 13:14

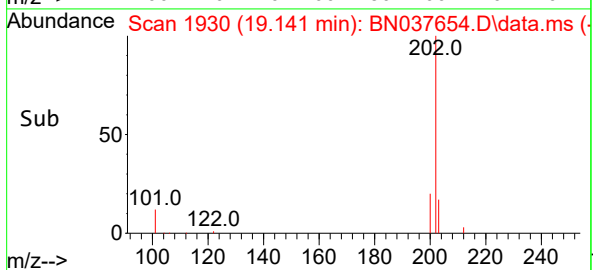
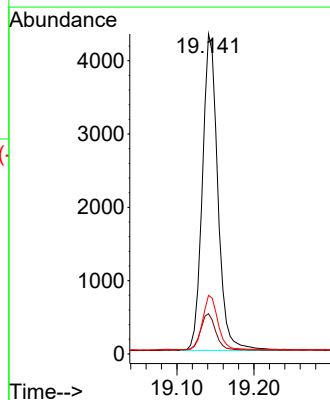
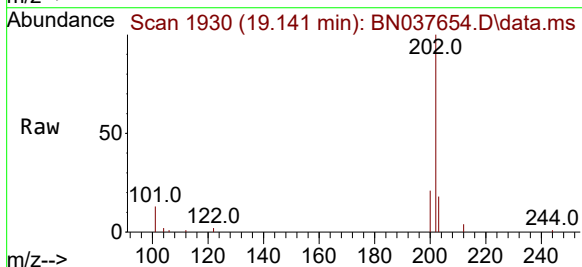
Tgt Ion:202 Resp: 6008

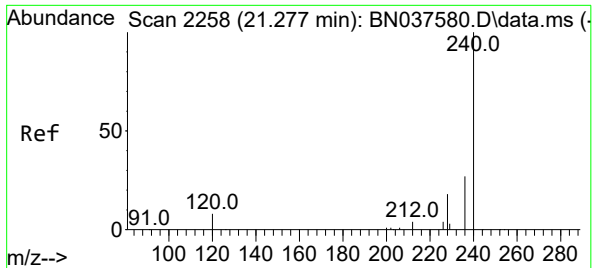
Ion Ratio Lower Upper

202 100

101 12.1 9.0 13.6

203 17.0 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037654.D

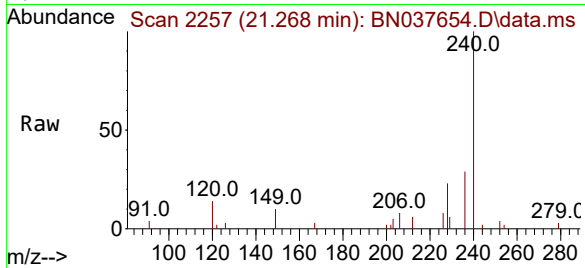
Acq: 28 Aug 2025 13:14

Instrument :

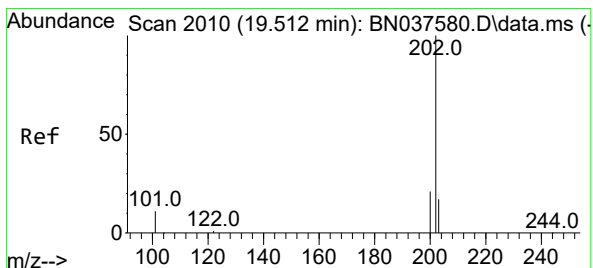
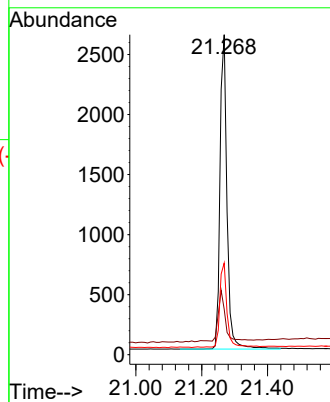
BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:	240	Resp:	3836
Ion Ratio	Lower	Upper	
240	100		
120	14.2	8.9	13.3#
236	28.6	22.6	33.8



#30

Pyrene

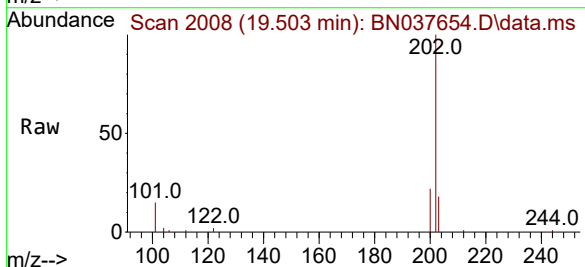
Concen: 0.409 ng

RT: 19.503 min Scan# 2008

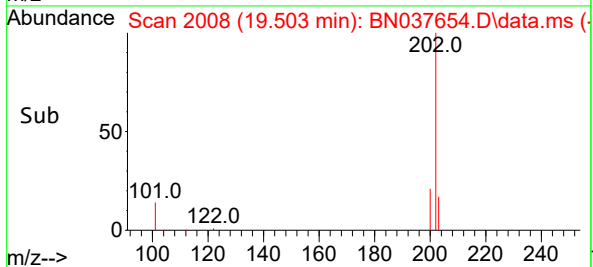
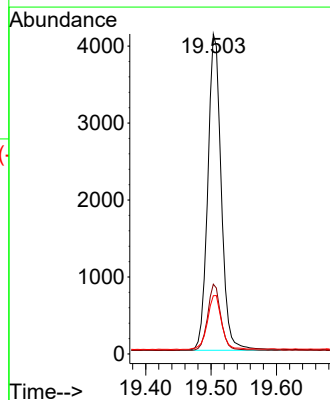
Delta R.T. -0.009 min

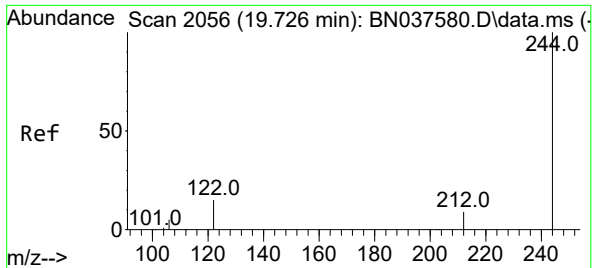
Lab File: BN037654.D

Acq: 28 Aug 2025 13:14



Tgt Ion:	202	Resp:	5868
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.6	25.0
203	17.7	14.3	21.5

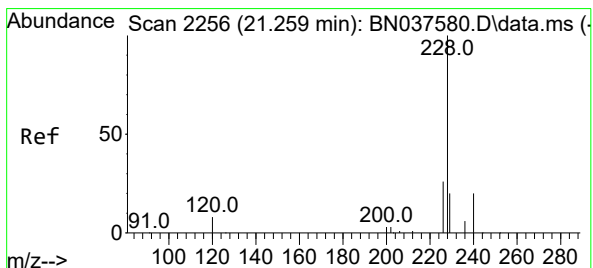
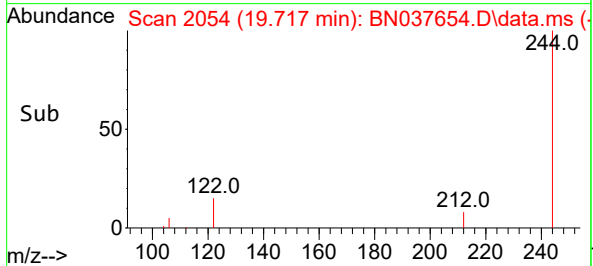
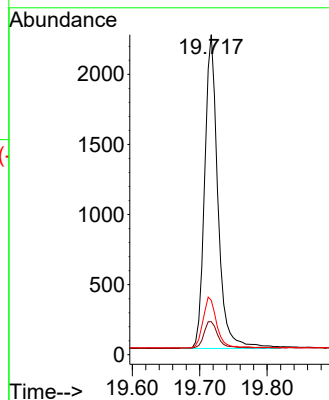
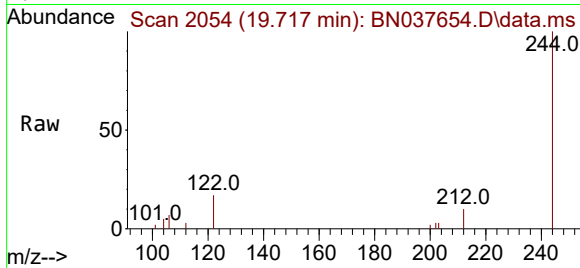




#31
Terphenyl-d14
Concen: 0.388 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

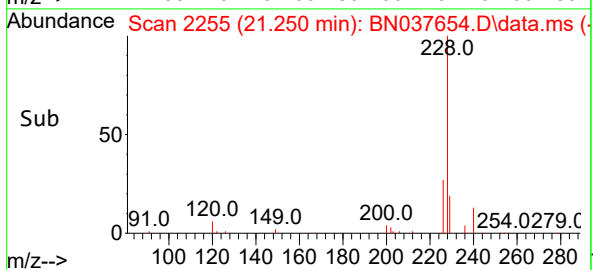
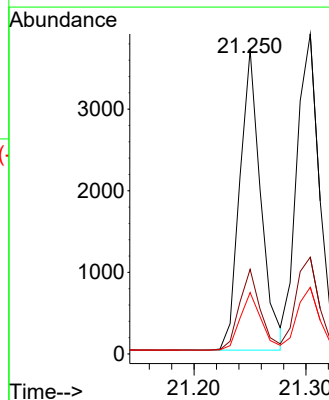
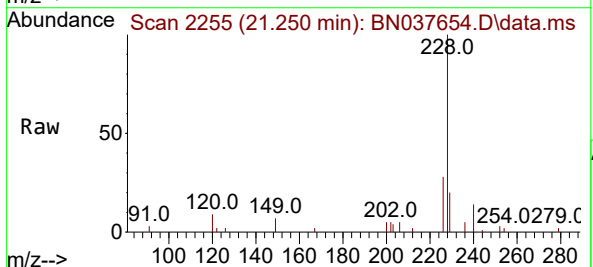
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

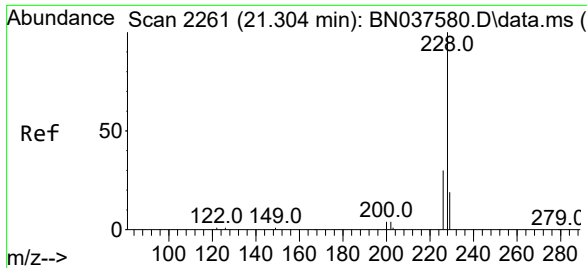
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.2	12.2
122	17.0	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.5	32.3
229	20.2	16.5	24.7





#33

Chrysene

Concen: 0.399 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037654.D

Acq: 28 Aug 2025 13:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

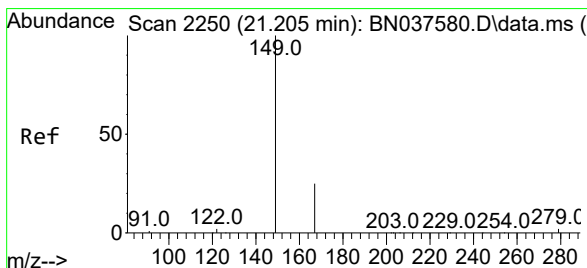
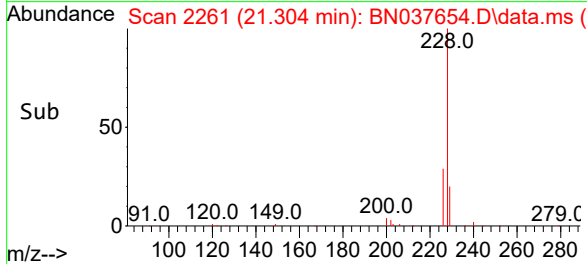
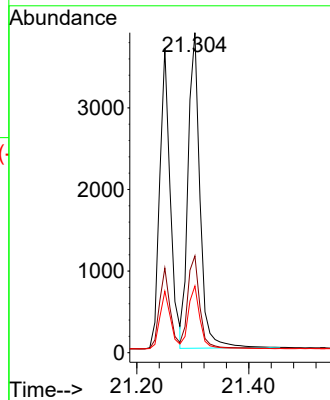
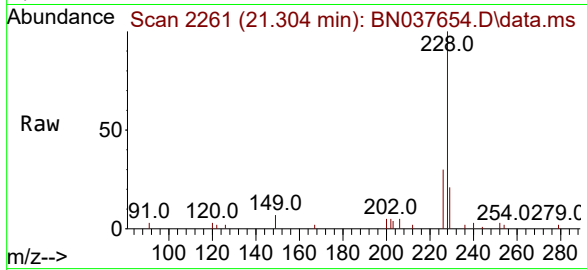
Tgt Ion:228 Resp: 5694

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

229 20.9 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.455 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037654.D

Acq: 28 Aug 2025 13:14

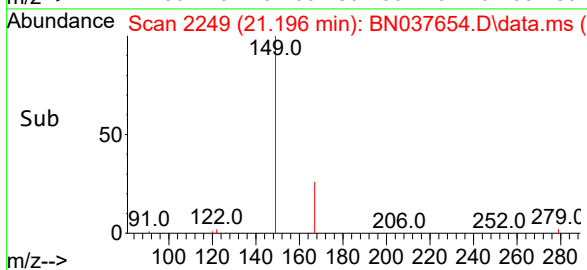
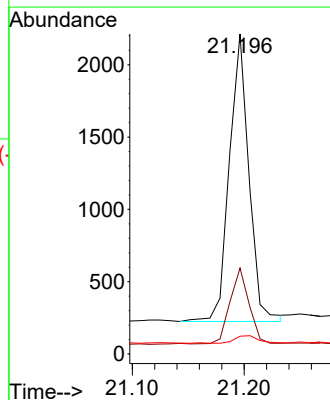
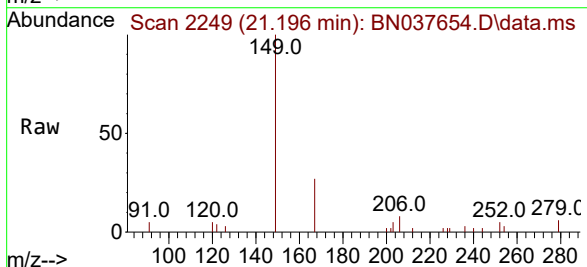
Tgt Ion:149 Resp: 2408

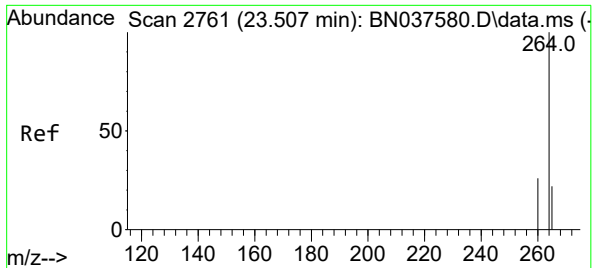
Ion Ratio Lower Upper

149 100

167 25.6 20.5 30.7

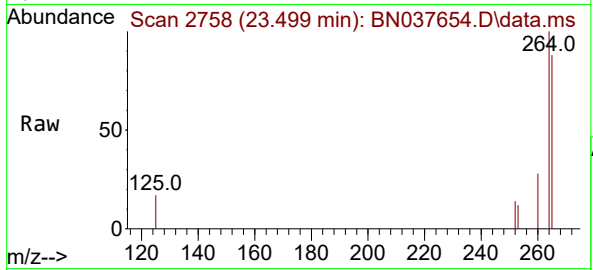
279 3.2 2.6 4.0



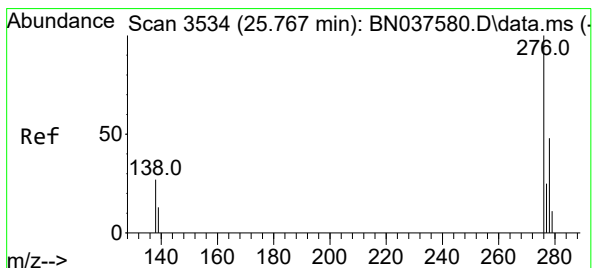
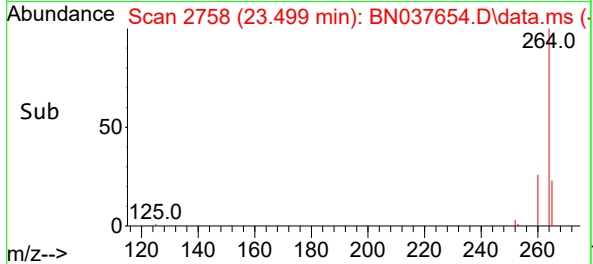
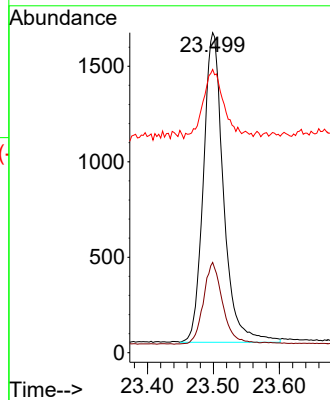


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.499 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

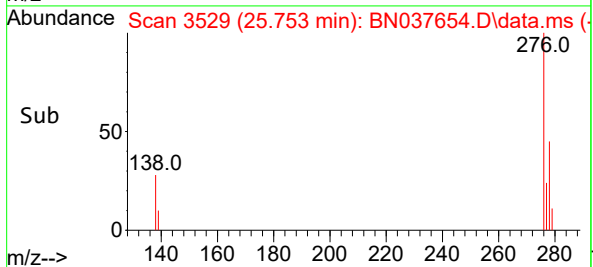
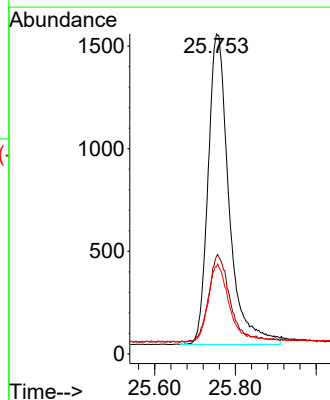
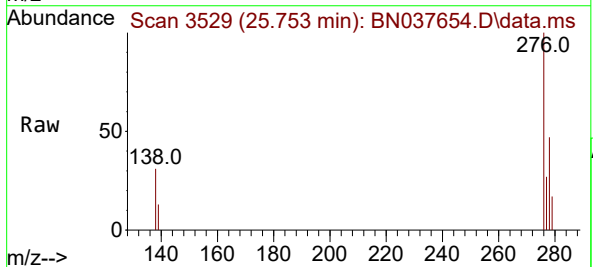


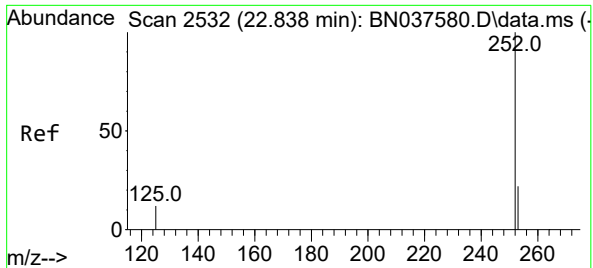
Tgt Ion:264 Resp: 3437
Ion Ratio Lower Upper
264 100
260 28.2 21.6 32.4
265 88.5 48.2 72.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.753 min Scan# 3529
Delta R.T. -0.014 min
Lab File: BN037654.D
Acq: 28 Aug 2025 13:14

Tgt Ion:276 Resp: 5446
Ion Ratio Lower Upper
276 100
138 28.3 23.3 34.9
277 24.6 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.413 ng

RT: 22.829 min Scan# 2529

Delta R.T. -0.009 min

Lab File: BN037654.D

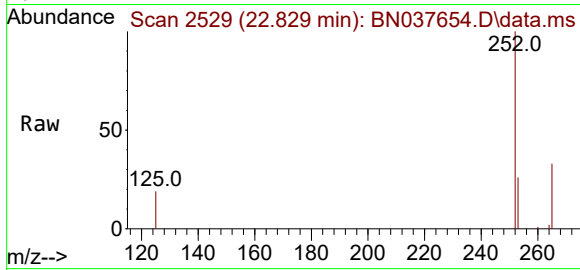
Acq: 28 Aug 2025 13:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



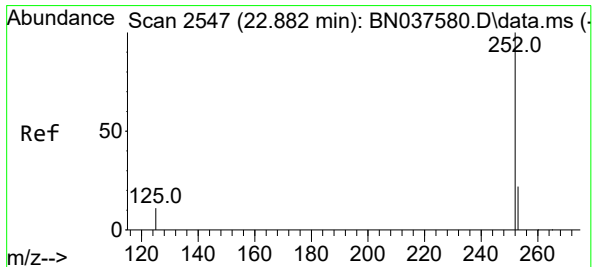
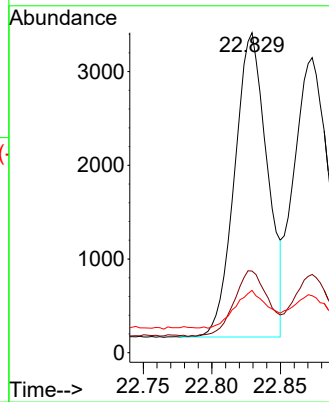
Tgt Ion:252 Resp: 5382

Ion Ratio Lower Upper

252 100

253 25.5 20.0 30.0

125 19.4 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.383 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.009 min

Lab File: BN037654.D

Acq: 28 Aug 2025 13:14

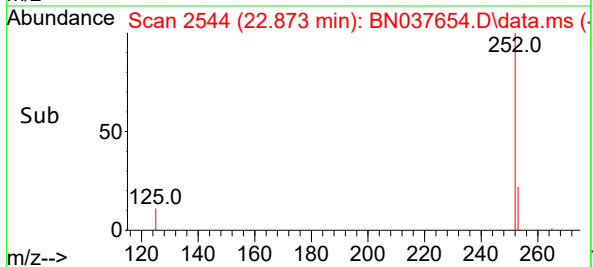
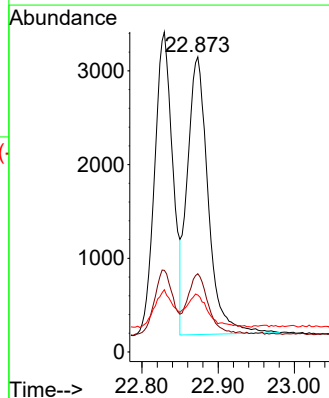
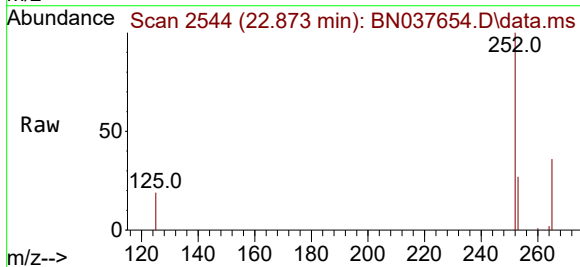
Tgt Ion:252 Resp: 5629

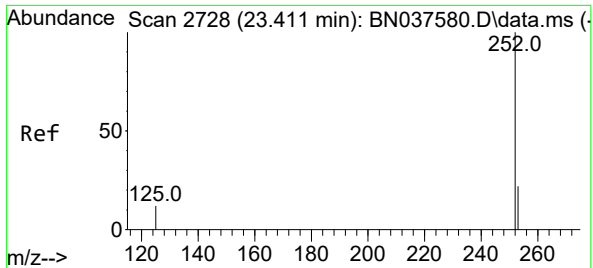
Ion Ratio Lower Upper

252 100

253 26.5 19.9 29.9

125 19.3 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037654.D

Acq: 28 Aug 2025 13:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

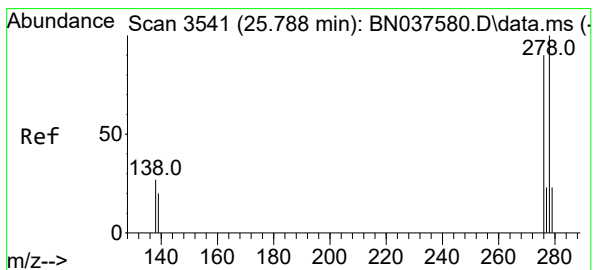
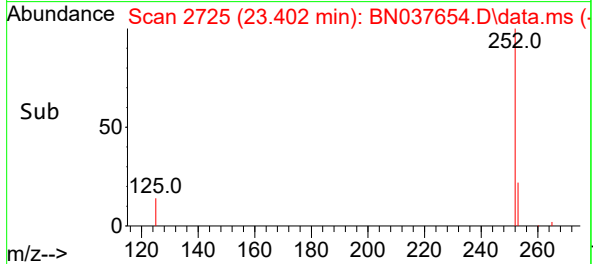
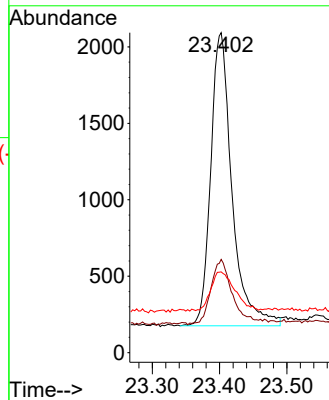
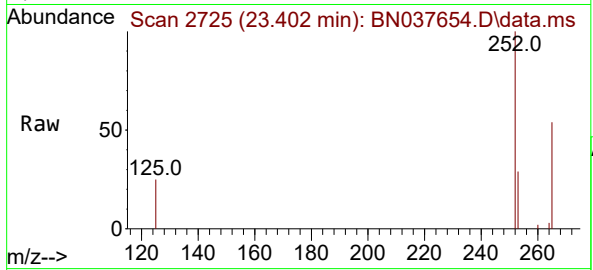
Tgt Ion:252 Resp: 4221

Ion Ratio Lower Upper

252 100

253 29.1 21.6 32.4

125 25.2 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.351 ng

RT: 25.770 min Scan# 3535

Delta R.T. -0.017 min

Lab File: BN037654.D

Acq: 28 Aug 2025 13:14

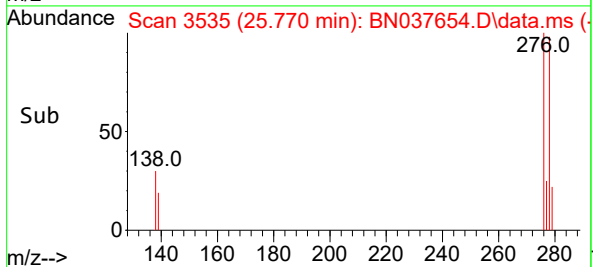
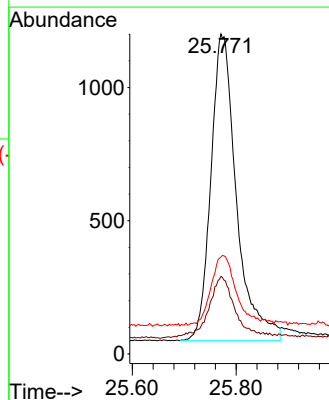
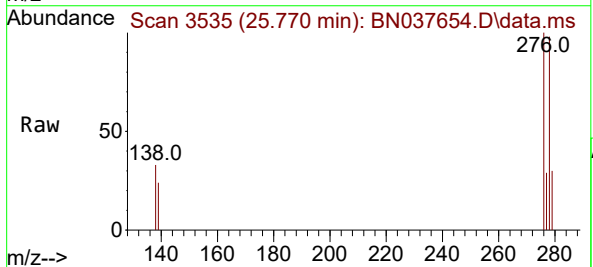
Tgt Ion:278 Resp: 3941

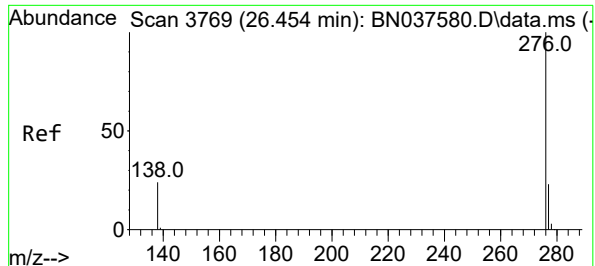
Ion Ratio Lower Upper

278 100

139 24.2 18.3 27.5

279 30.3 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.440 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN037654.D

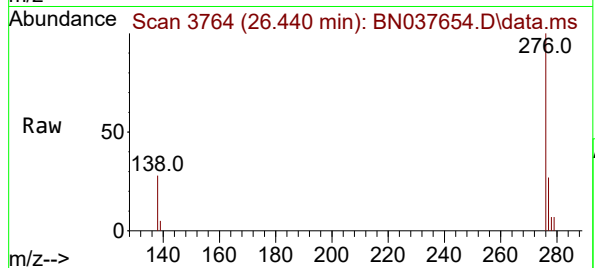
Acq: 28 Aug 2025 13:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



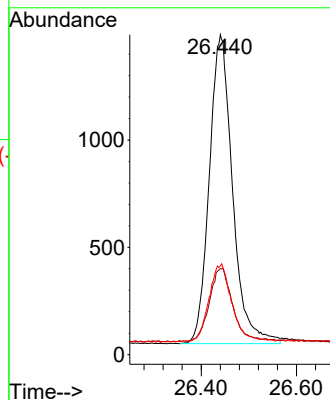
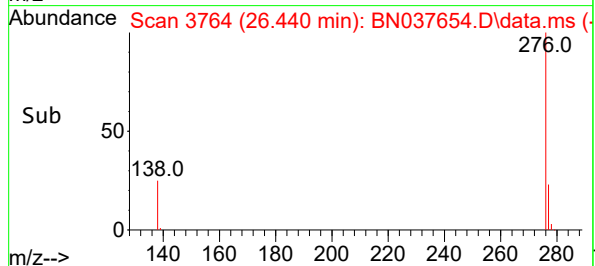
Tgt Ion:276 Resp: 4886

Ion Ratio Lower Upper

276 100

277 26.8 21.0 31.4

138 27.7 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037654.D
 Acq On : 28 Aug 2025 13:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 28 14:06:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 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	97	0.00
2	1,4-Dioxane	0.383	0.395	-3.1	97	0.00
3	n-Nitrosodimethylamine	0.489	0.500	-2.2	100	0.00
4 S	2-Fluorophenol	0.907	0.826	8.9	91	0.00
5 S	Phenol-d6	1.091	0.993	9.0	93	0.00
6	bis(2-Chloroethyl)ether	0.983	0.943	4.1	94	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	92	-0.01
8 S	Nitrobenzene-d5	0.282	0.284	-0.7	100	-0.01
9	Naphthalene	1.065	1.048	1.6	93	-0.01
10	Hexachlorobutadiene	0.260	0.275	-5.8	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.544	0.487	10.5	88	0.00
12	2-Methylnaphthalene	0.668	0.627	6.1	91	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	86	-0.01
14 S	2,4,6-Tribromophenol	0.175	0.191	-9.1	106	0.00
15 S	2-Fluorobiphenyl	2.313	2.317	-0.2	87	0.00
16	Acenaphthylene	1.793	1.836	-2.4	93	-0.01
17	Acenaphthene	1.220	1.222	-0.2	90	-0.01
18	Fluorene	1.596	1.621	-1.6	92	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.049	7.5	99	0.00
21	4-Bromophenyl-phenylether	0.251	0.231	8.0	91	-0.01
22	Hexachlorobenzene	0.356	0.372	-4.5	96	-0.01
23	Atrazine	0.142	0.151	-6.3	107	0.00
24	Pentachlorophenol	0.125	0.121	3.2	98	0.00
25	Phenanthrene	1.216	1.159	4.7	91	0.00
26	Anthracene	1.077	0.998	7.3	92	-0.01
27 SURR	Fluoranthene-d10	1.052	0.948	9.9	92	0.00
28	Fluoranthene	1.397	1.295	7.3	92	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	89	0.00
30	Pyrene	1.495	1.530	-2.3	93	0.00
31 S	Terphenyl-d14	0.823	0.798	3.0	89	0.00
32	Benzo(a)anthracene	1.336	1.258	5.8	88	0.00
33	Chrysene	1.489	1.484	0.3	92	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.628	-14.0	107	0.00
35 I	Perylene-d12	1.000	1.000	0.0	82	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.585	6.0	81	-0.01
37	Benzo(b)fluoranthene	1.516	1.566	-3.3	96	0.00
38	Benzo(k)fluoranthene	1.710	1.638	4.2	81	0.00
39 C	Benzo(a)pyrene	1.257	1.228	2.3	88	0.00
40	Dibenzo(a,h)anthracene	1.308	1.147	12.3	77	-0.02
41	Benzo(g,h,i)perylene	1.378	1.422	-3.2	92	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037654.D
 Acq On : 28 Aug 2025 13:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 28 14:06:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 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	97	0.00
2	1,4-Dioxane	0.400	0.413	-3.2	97	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	100	0.00
4 S	2-Fluorophenol	0.400	0.364	9.0	91	0.00
5 S	Phenol-d6	0.400	0.364	9.0	93	0.00
6	bis(2-Chloroethyl)ether	0.400	0.384	4.0	94	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	92	-0.01
8 S	Nitrobenzene-d5	0.400	0.404	-1.0	100	-0.01
9	Naphthalene	0.400	0.394	1.5	93	-0.01
10	Hexachlorobutadiene	0.400	0.422	-5.5	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.358	10.5	88	0.00
12	2-Methylnaphthalene	0.400	0.376	6.0	91	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	86	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.436	-9.0	106	0.00
15 S	2-Fluorobiphenyl	0.400	0.401	-0.3	87	0.00
16	Acenaphthylene	0.400	0.410	-2.5	93	-0.01
17	Acenaphthene	0.400	0.401	-0.3	90	-0.01
18	Fluorene	0.400	0.406	-1.5	92	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	92	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.451	-12.7	99	0.00
21	4-Bromophenyl-phenylether	0.400	0.368	8.0	91	-0.01
22	Hexachlorobenzene	0.400	0.418	-4.5	96	-0.01
23	Atrazine	0.400	0.426	-6.5	107	0.00
24	Pentachlorophenol	0.400	0.385	3.8	98	0.00
25	Phenanthrene	0.400	0.381	4.8	91	0.00
26	Anthracene	0.400	0.371	7.3	92	-0.01
27 SURR	Fluoranthene-d10	0.400	0.360	10.0	92	0.00
28	Fluoranthene	0.400	0.371	7.3	92	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	89	0.00
30	Pyrene	0.400	0.409	-2.2	93	0.00
31 S	Terphenyl-d14	0.400	0.388	3.0	89	0.00
32	Benzo(a)anthracene	0.400	0.376	6.0	88	0.00
33	Chrysene	0.400	0.399	0.3	92	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.455	-13.7	107	0.00
35 I	Perylene-d12	0.400	0.400	0.0	82	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	81	-0.01
37	Benzo(b)fluoranthene	0.400	0.413	-3.2	96	0.00
38	Benzo(k)fluoranthene	0.400	0.383	4.3	81	0.00
39 C	Benzo(a)pyrene	0.400	0.391	2.3	88	0.00
40	Dibenzo(a,h)anthracene	0.400	0.351	12.3	77	-0.02
41	Benzo(g,h,i)perylene	0.400	0.413	-3.2	92	-0.01

(#) = Out of Range

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



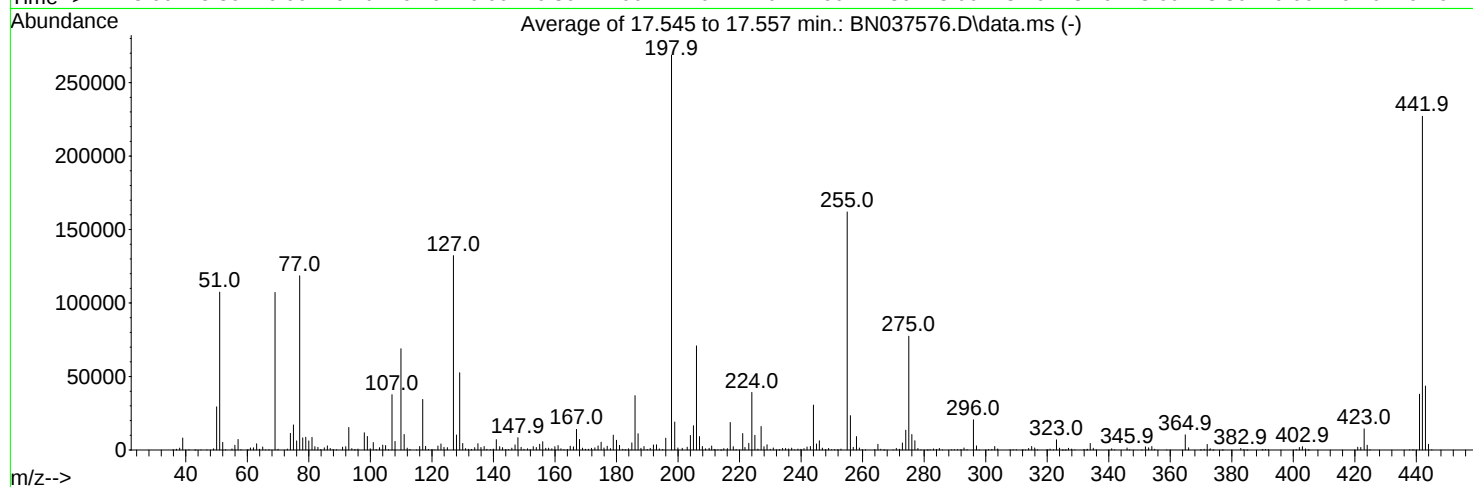
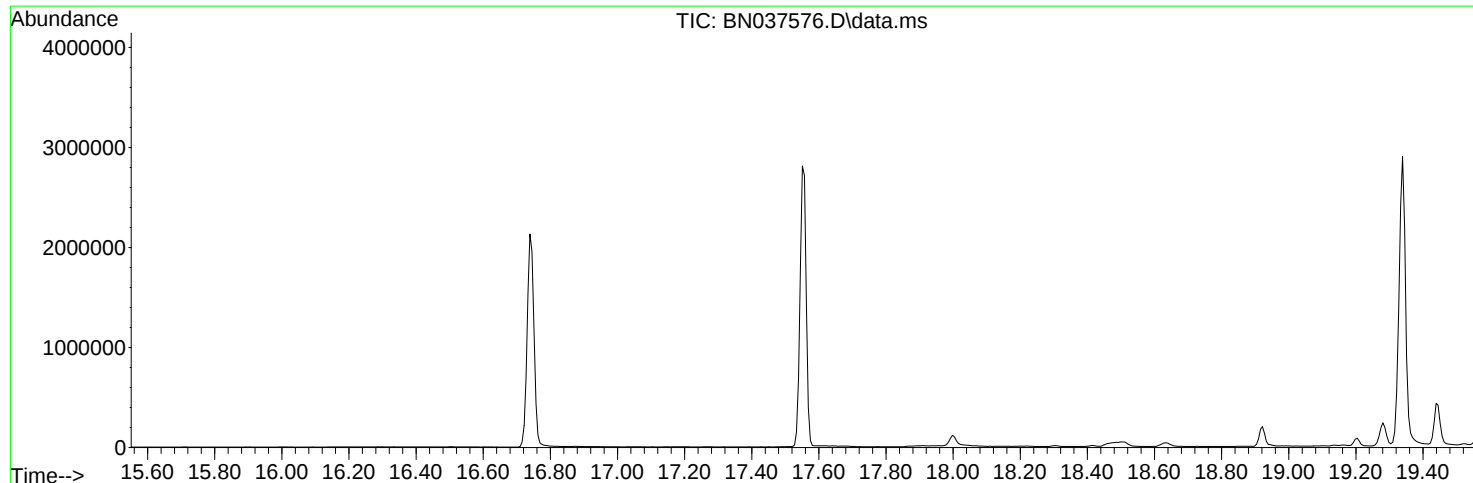
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
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-BN081225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 13 05:00:58 2025



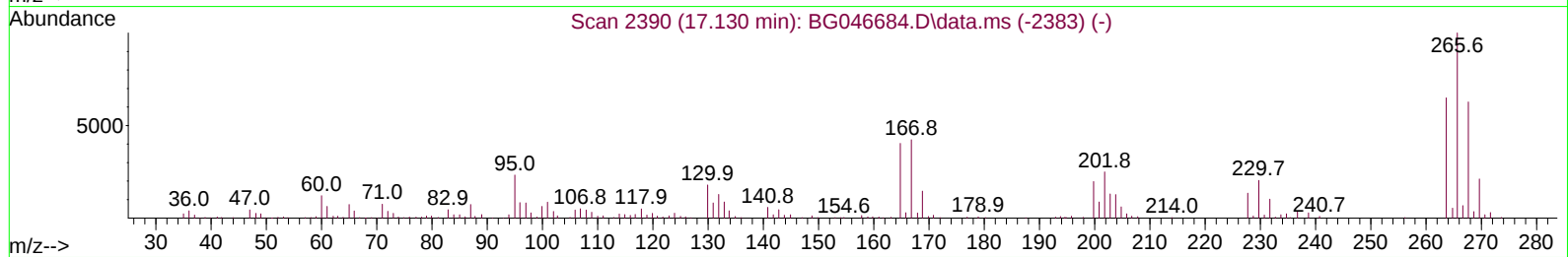
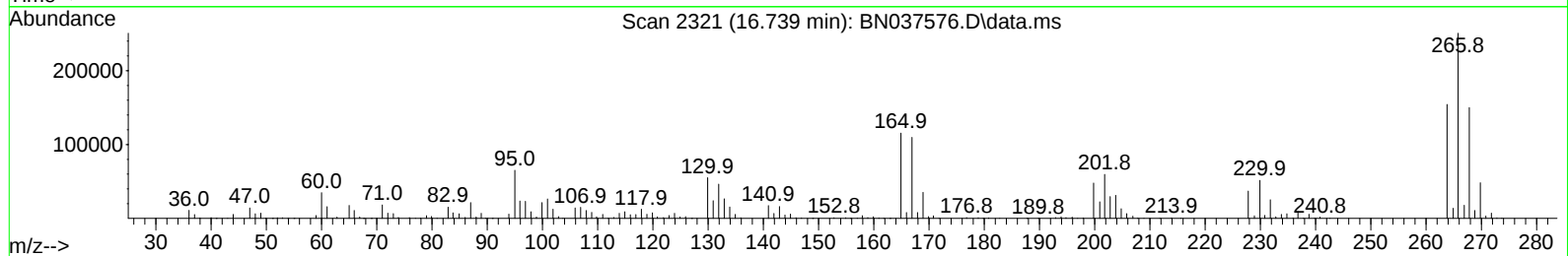
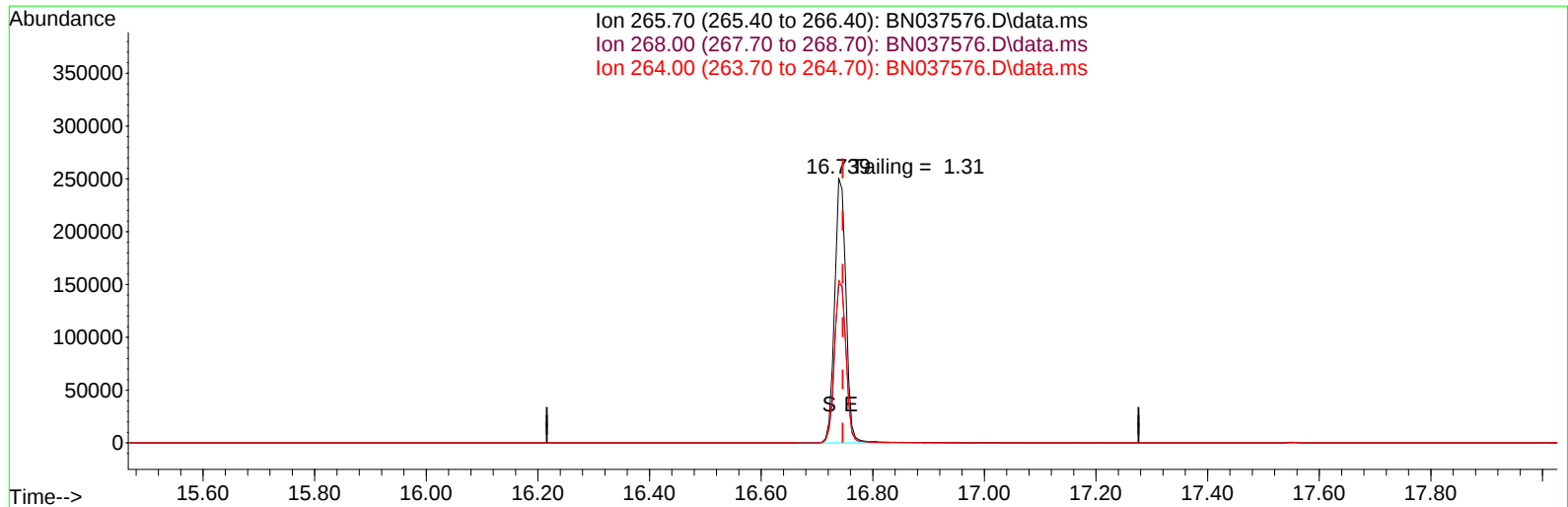
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2451

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	107227	PASS
70	69	0.00	2	0.6	598	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	268651	PASS
199	198	5	9	7.1	19058	PASS
365	198	1	100	3.9	10363	PASS
441	443	0.01	150	87.2	38019	PASS
442	442	100	100	100.0	227139	PASS
443	442	15	24	19.2	43589	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 13 06:28:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037576.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.007) 29662.60 ng

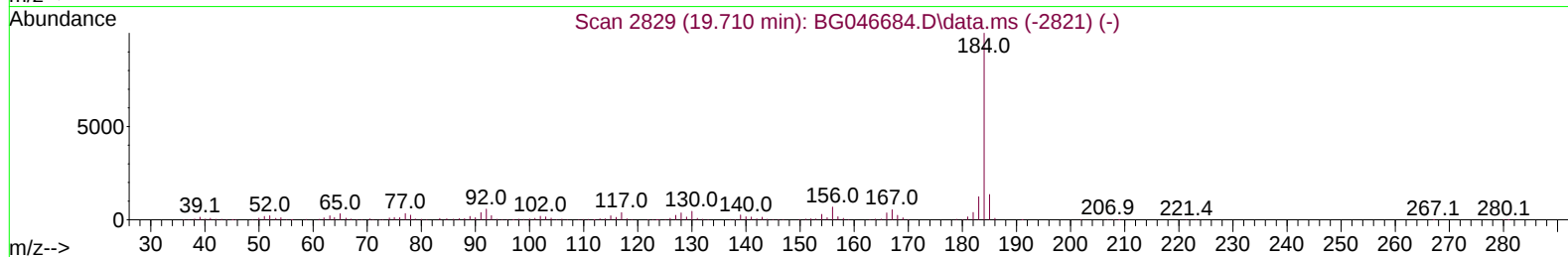
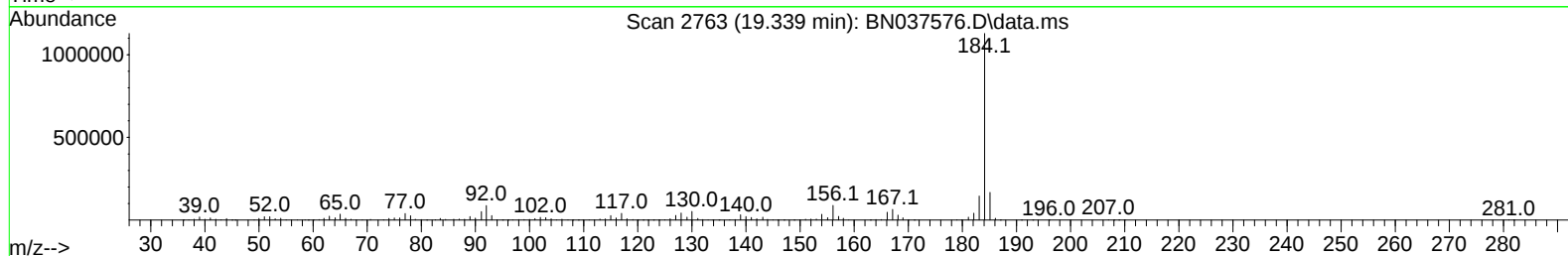
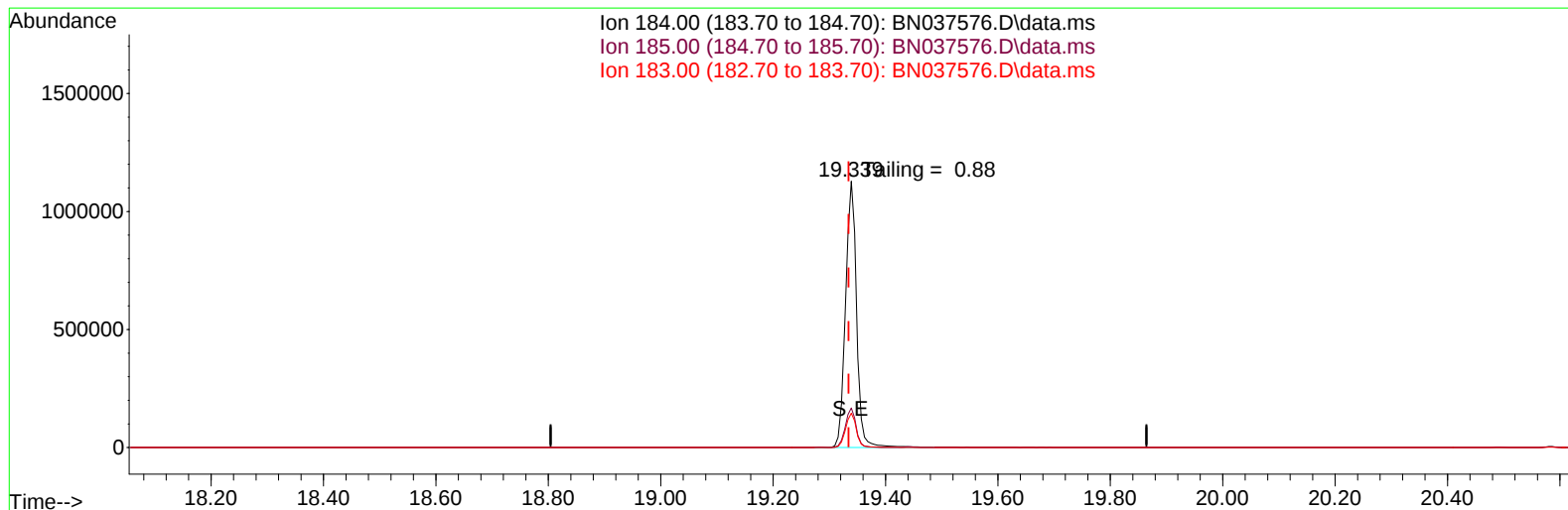
response 357790

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.87
264.00	61.60	61.53
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 13 06:28:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037576.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 1542567

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.86
183.00	13.20	12.90
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

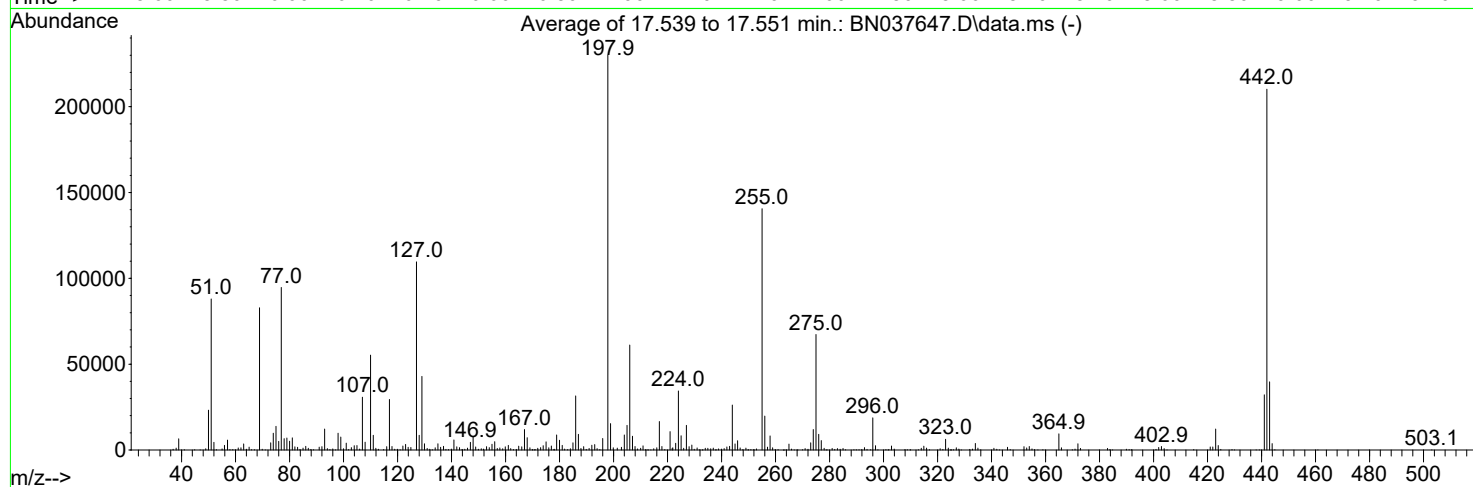
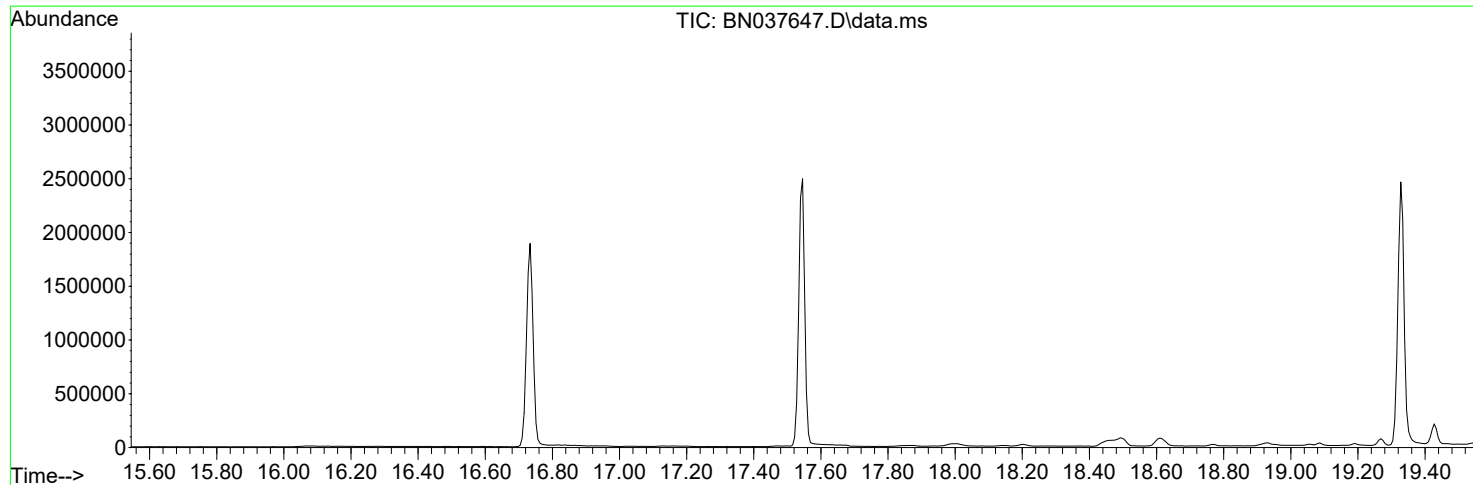
Date	Instrument Name	DFTPP Data File
8/12/2025	BNA_N	<u>BN037576.D</u>
Compound Name	Response	Retention Time
DDT	903527	20.586
DDD	9291	20.192
DDE	170	19.633
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
9461	912988	1.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037647.D
Acq On : 28 Aug 2025 08:50
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-BN081225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 13 05:00:58 2025



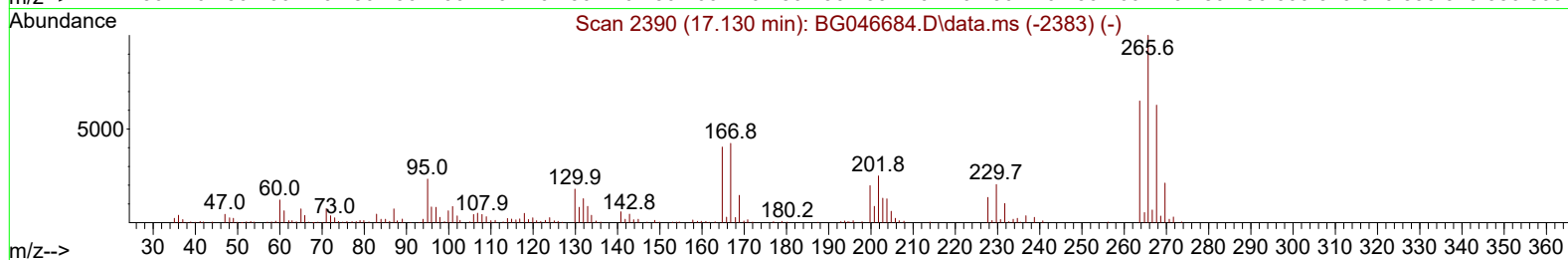
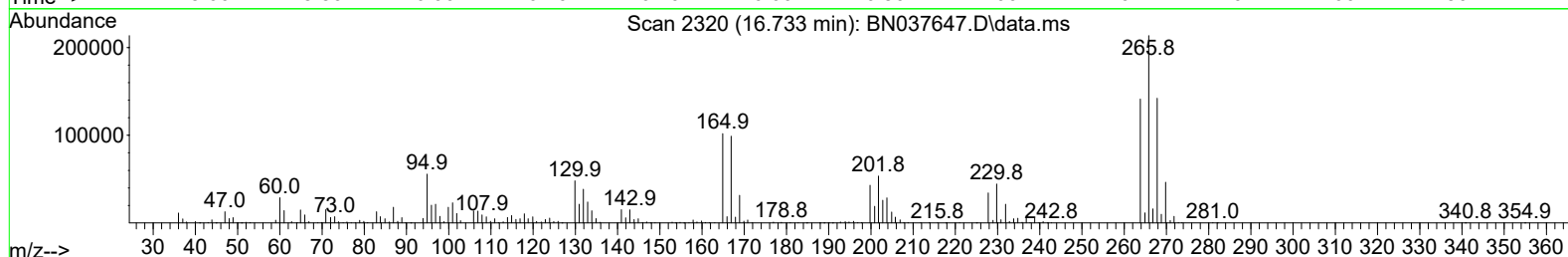
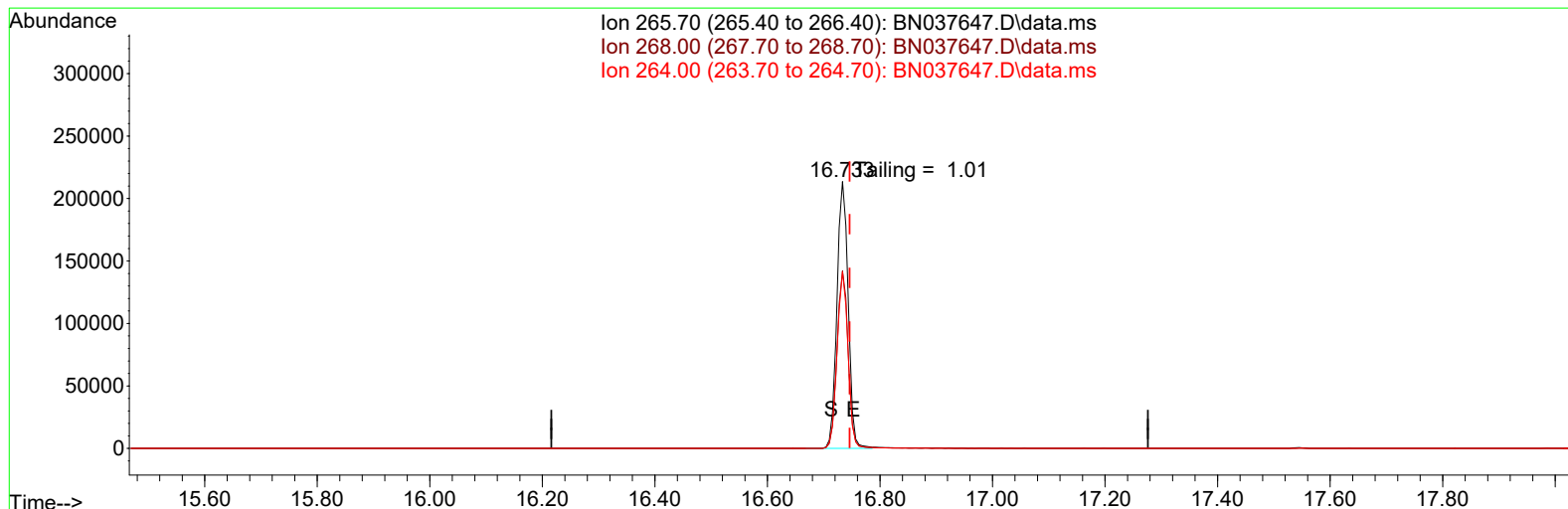
AutoFind: Scans 2457, 2458, 2459; Background Corrected with Scan 2450

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	82843	PASS
70	69	0.00	2	0.6	459	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	230016	PASS
199	198	5	9	6.7	15374	PASS
365	198	1	100	4.1	9400	PASS
441	443	0.01	150	81.1	32195	PASS
442	442	100	100	100.0	210197	PASS
443	442	15	24	18.9	39704	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037647.D
Acq On : 28 Aug 2025 08:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 29 04:47:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037647.D\data.ms

(70) Pentachlorophenol (C)

16.733min (-0.013) 27093.45 ng

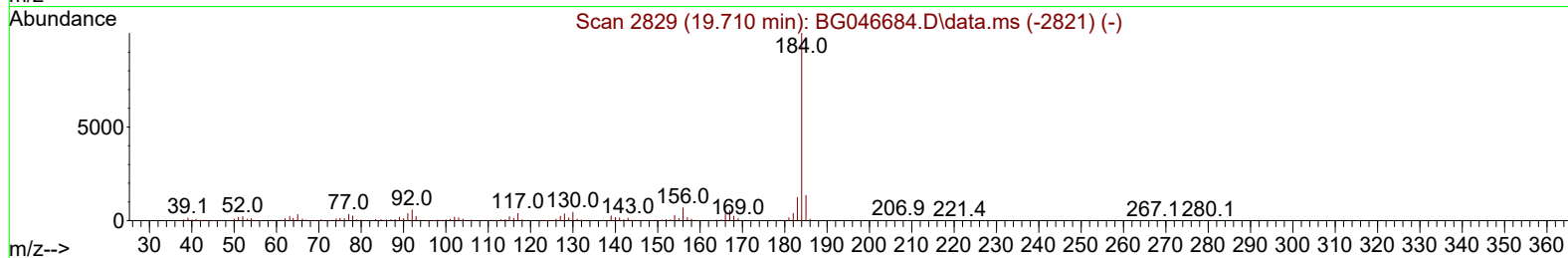
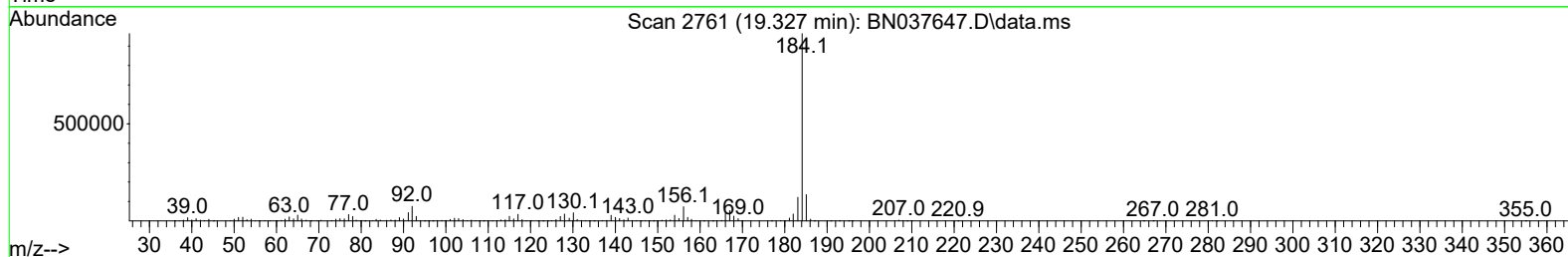
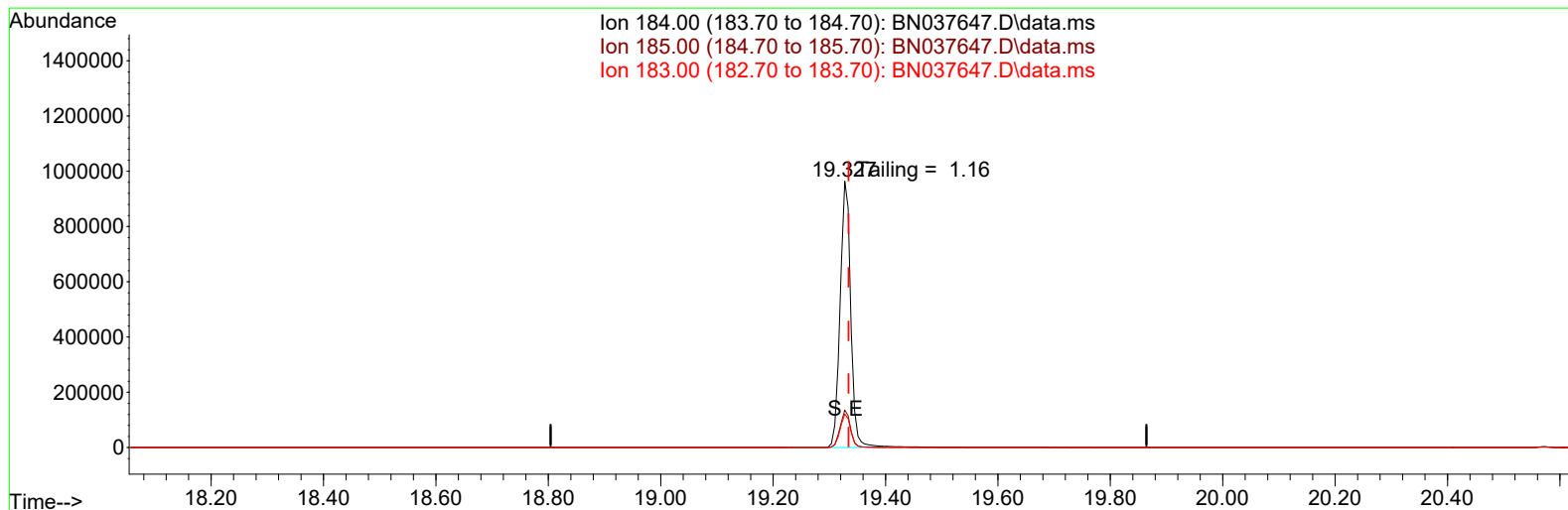
response 295758

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.56
264.00	61.60	66.17
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037647.D
Acq On : 28 Aug 2025 08:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 29 04:47:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037647.D\data.ms

(77) Benzidine

19.327min (-0.007) 0.00 ng

response 1266888

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.07
183.00	13.20	12.62
0.00	0.00	0.00

Instrument :

BNA_N

ClientSampleId :

DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/28/2025	BNA_N	<u>BN037647.D</u>
Compound Name	Response	Retention Time
DDT	857903	20.574
DDD	7681	20.12
DDE	1126	19.622
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8807	866710	1.02

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169421BL	SDG No.:	Q2937
Lab Sample ID:	PB169421BL	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
BN037649.D	1	08/27/25 08:45	08/28/25 10:05	PB169421

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	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	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	2810	7.71				
1146-65-2	Naphthalene-d8	6250	10.487				
15067-26-2	Acenaphthene-d10	2650	14.345				
1517-22-2	Phenanthrene-d10	5180	17.086				
1719-03-5	Chrysene-d12	4270	21.268				
1520-96-3	Perylene-d12	3910	23.499				

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\BN082825\
 Data File : BN037649.D
 Acq On : 28 Aug 2025 10:05
 Operator : RC/JU
 Sample : PB169421BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169421BL

Quant Time: Aug 28 11:49:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2813	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	6247	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2646	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5175	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4266	0.400	ng	# 0.00
35) Perylene-d12	23.499	264	3908	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2165	0.339	ng	0.00
5) Phenol-d6	6.879	99	2295	0.299	ng	0.00
8) Nitrobenzene-d5	8.854	82	1614	0.367	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	2677	0.315	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	337	0.291	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	5487	0.359	ng	-0.01
27) Fluoranthene-d10	19.113	212	4486	0.330	ng	0.00
31) Terphenyl-d14	19.717	244	3337	0.380	ng	0.00

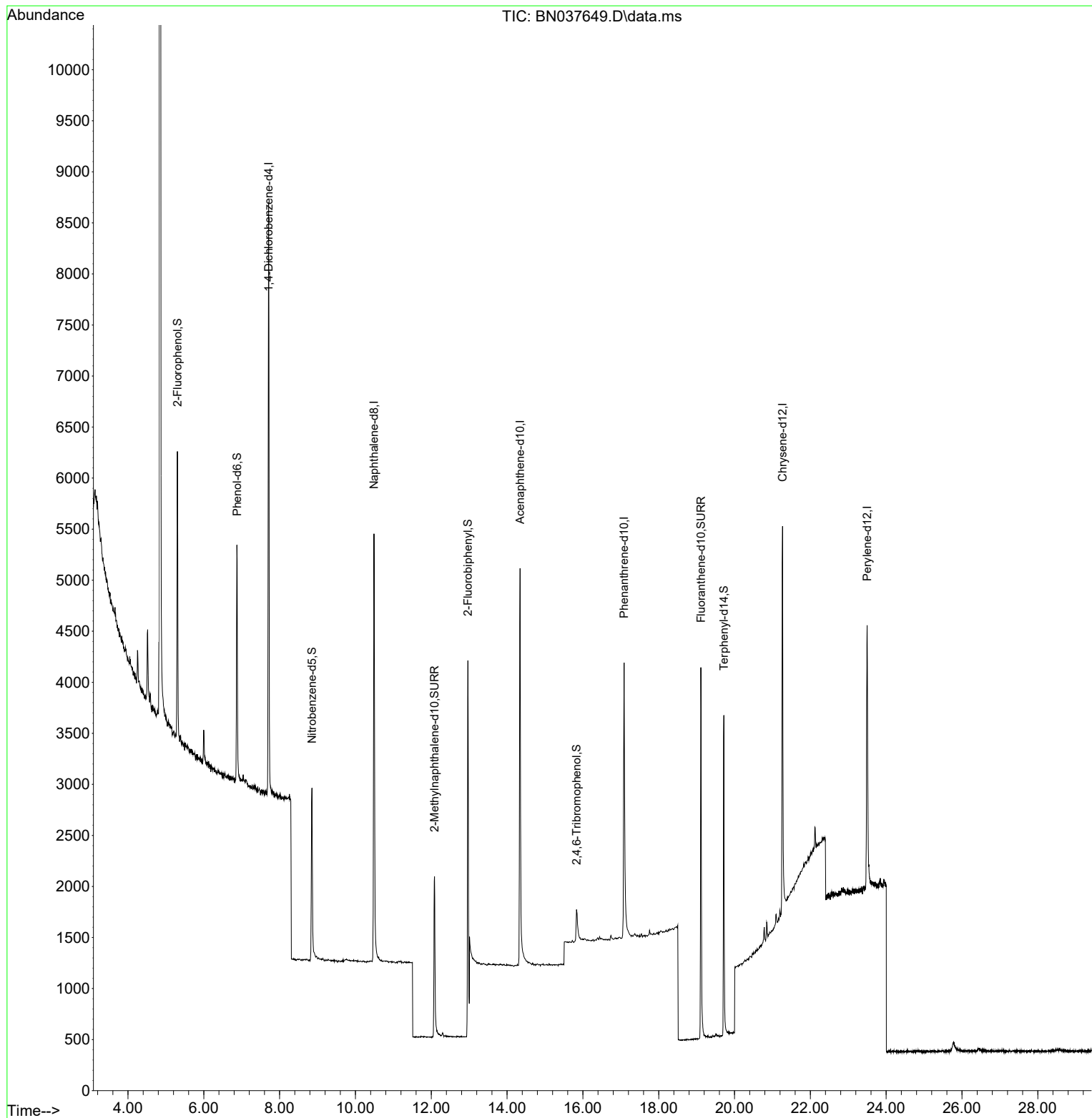
Target Compounds	Qvalue

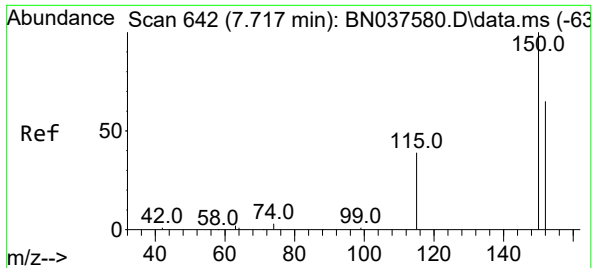
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037649.D
Acq On : 28 Aug 2025 10:05
Operator : RC/JU
Sample : PB169421BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169421BL

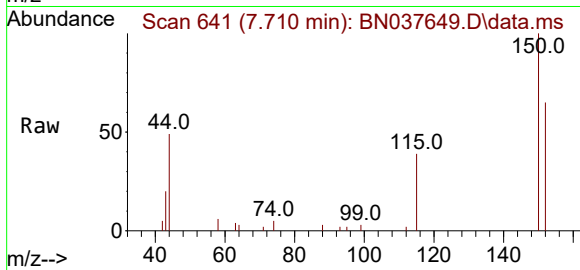
Quant Time: Aug 28 11:49:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



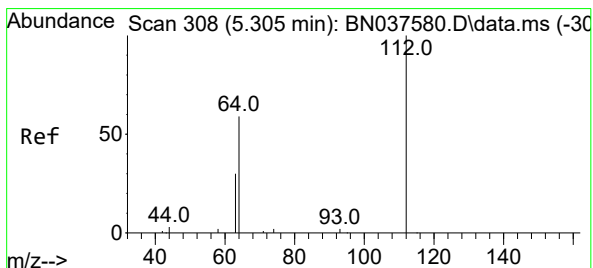
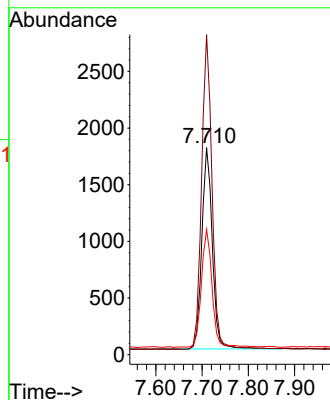
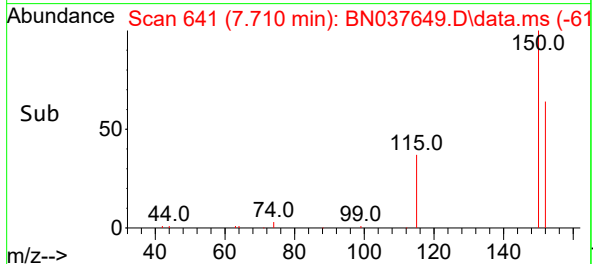


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 641
Delta R.T. -0.007 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

Instrument :
BNA_N
ClientSampleId :
PB169421BL

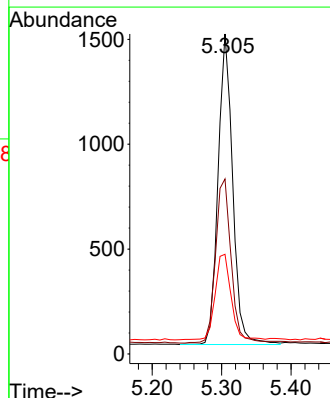
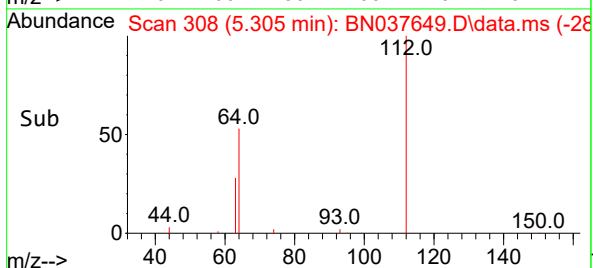
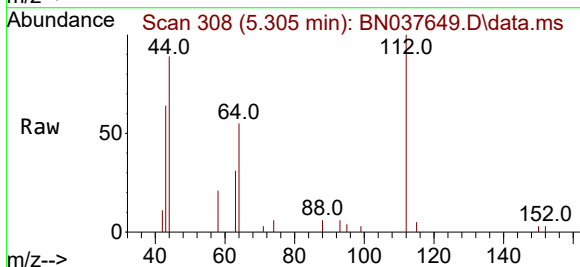


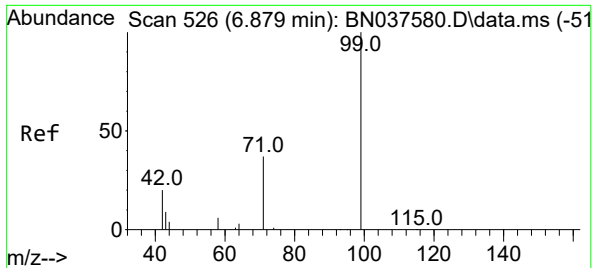
Tgt Ion:152 Resp: 2813
Ion Ratio Lower Upper
152 100
150 154.6 122.2 183.4
115 60.4 49.8 74.6



#4
2-Fluorophenol
Concen: 0.339 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

Tgt Ion:112 Resp: 2165
Ion Ratio Lower Upper
112 100
64 57.0 44.9 67.3
63 29.8 23.4 35.2

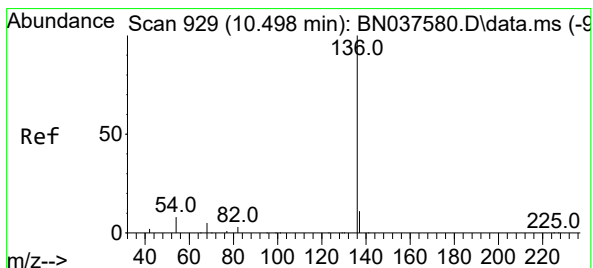
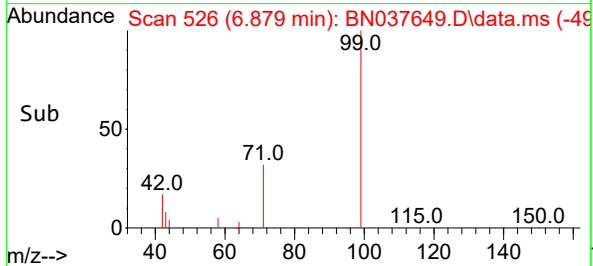
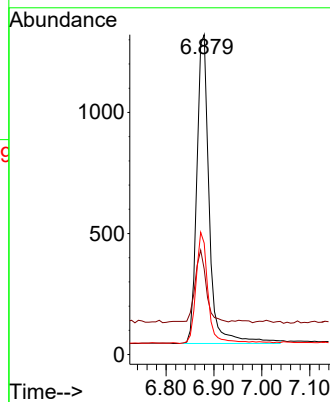
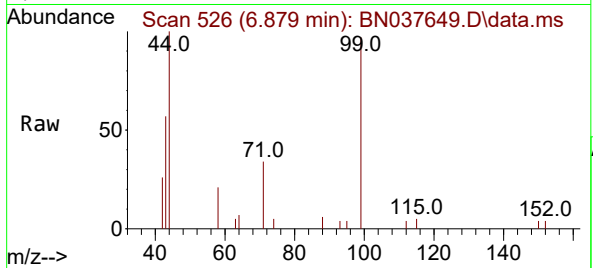




#5
Phenol-d6
Concen: 0.299 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

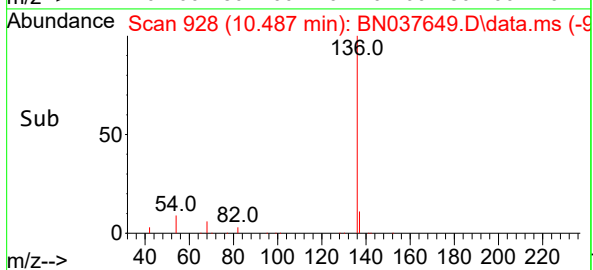
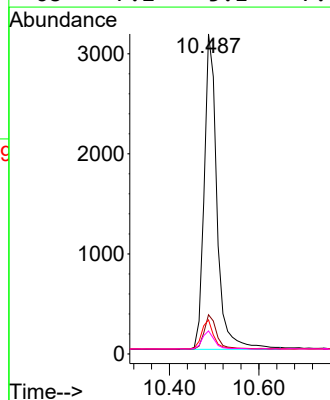
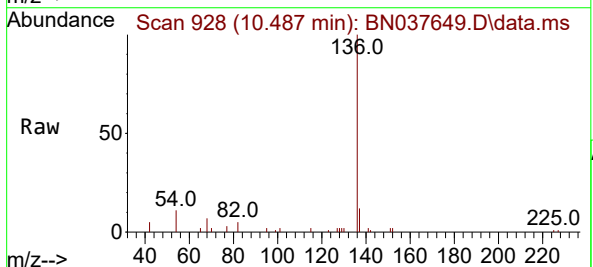
Instrument :
BNA_N
ClientSampleId :
PB169421BL

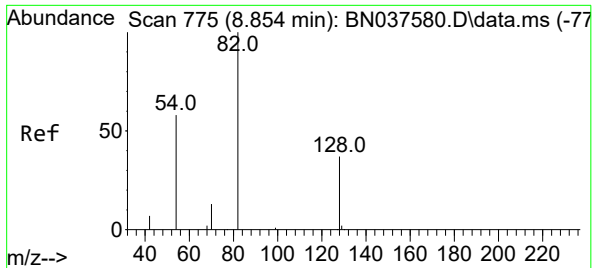
Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.2	18.5	27.7
71	34.7	28.6	42.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.011 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	10.7	7.3	10.9
68	7.2	5.1	7.7

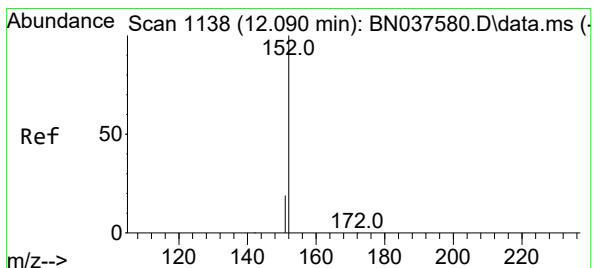
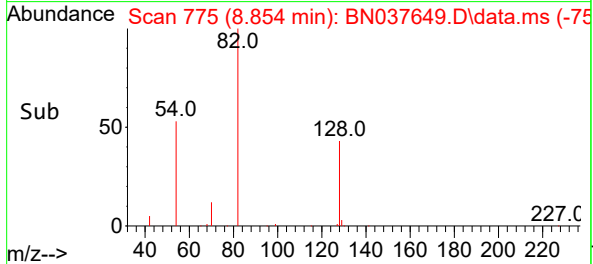
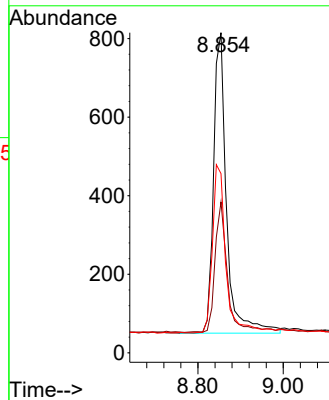
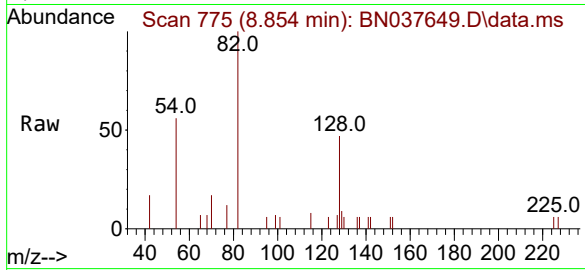




#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.854 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

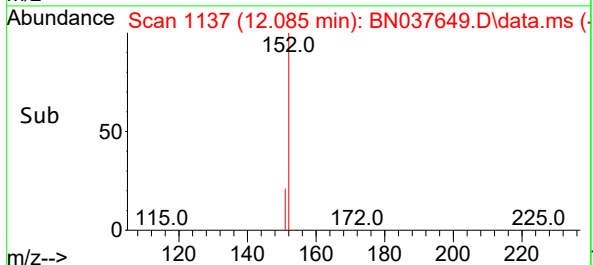
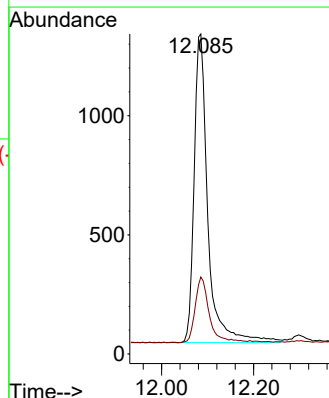
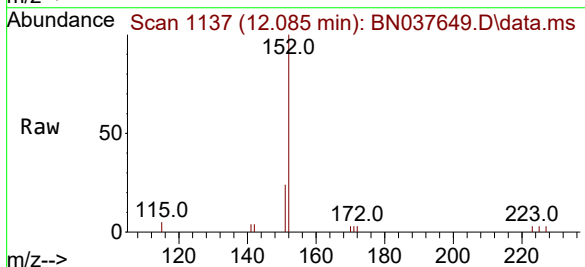
Instrument :
BNA_N
ClientSampleId :
PB169421BL

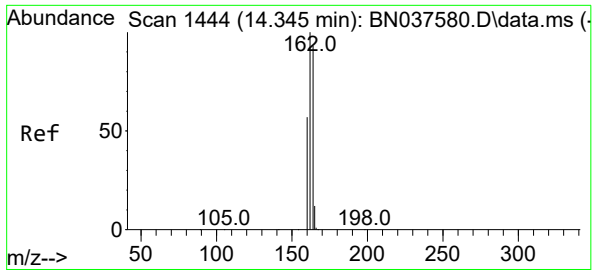
Tgt Ion:	82	Resp:	1614
Ion	Ratio	Lower	Upper
82	100		
128	47.1	32.6	48.8
54	56.0	48.9	73.3



#11
2-Methylnaphthalene-d10
Concen: 0.315 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

Tgt Ion:	152	Resp:	2677
Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.3	25.9

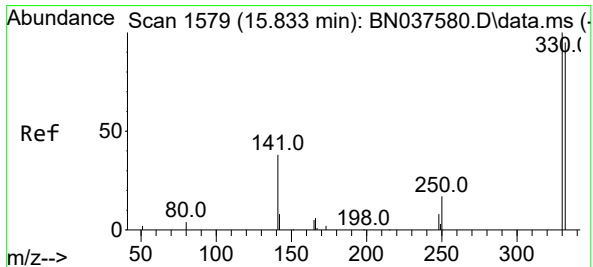
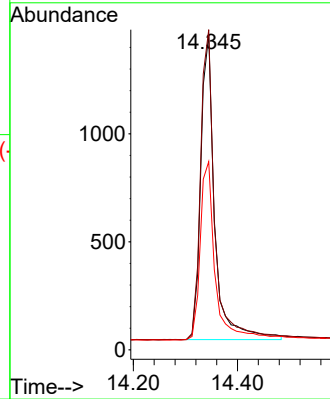
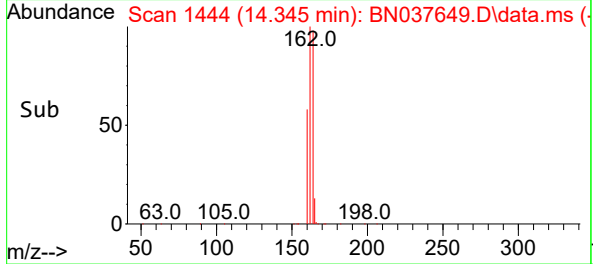
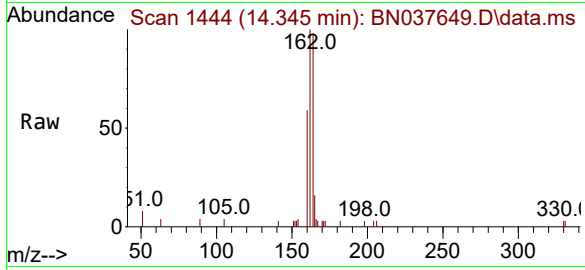




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

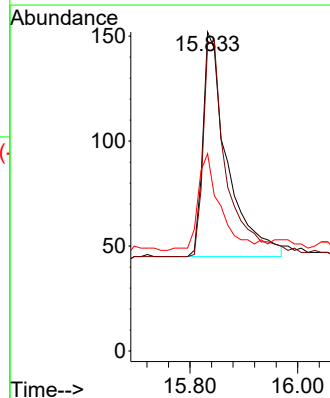
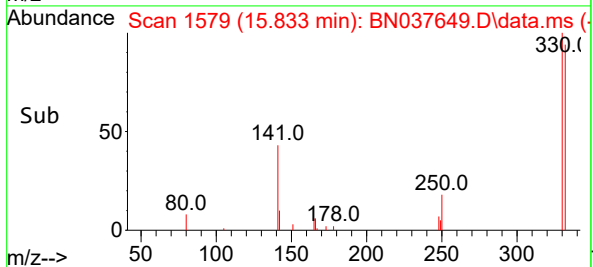
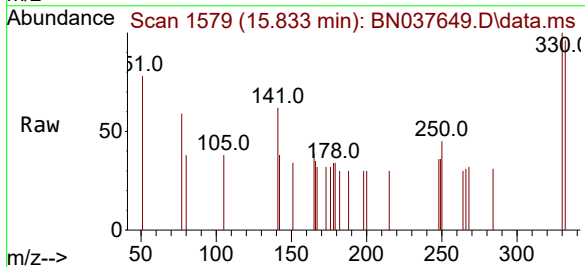
Instrument :
BNA_N
ClientSampleId :
PB169421BL

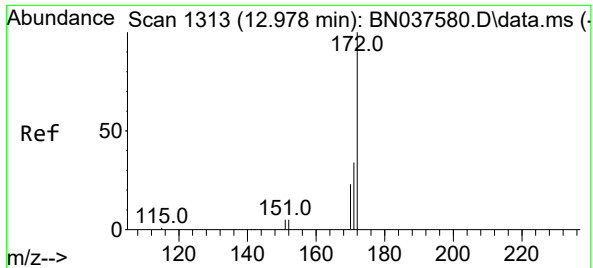
Tgt Ion:164 Resp: 2646
Ion Ratio Lower Upper
164 100
162 101.6 85.5 128.3
160 59.7 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.291 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

Tgt Ion:330 Resp: 337
Ion Ratio Lower Upper
330 100
332 92.6 77.4 116.0
141 38.9 30.9 46.3

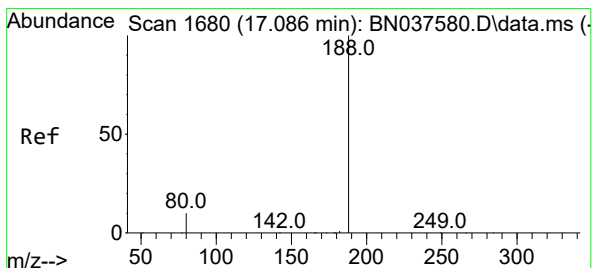
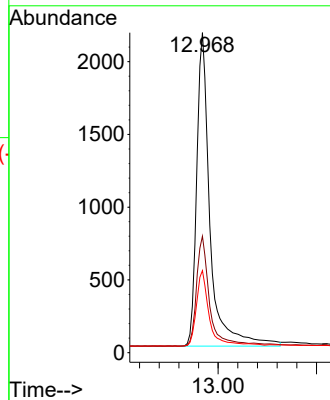
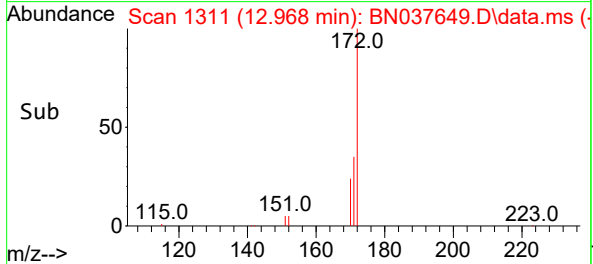
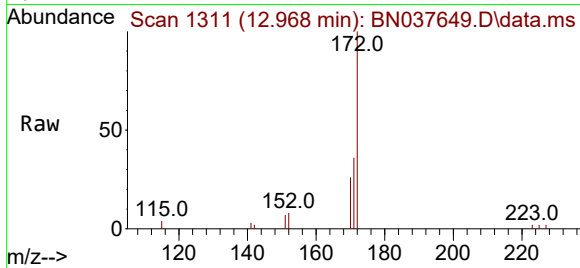




#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

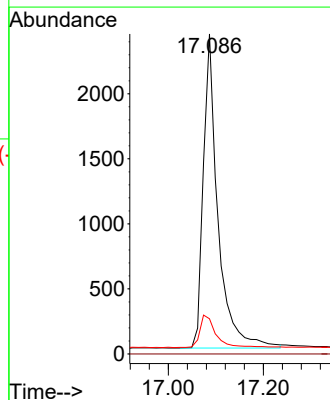
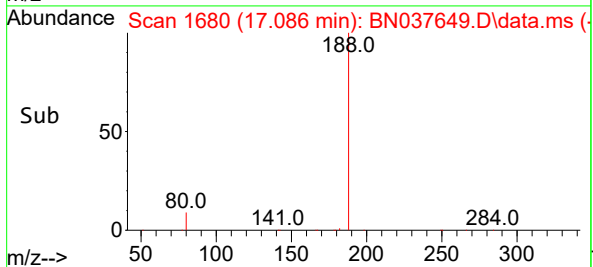
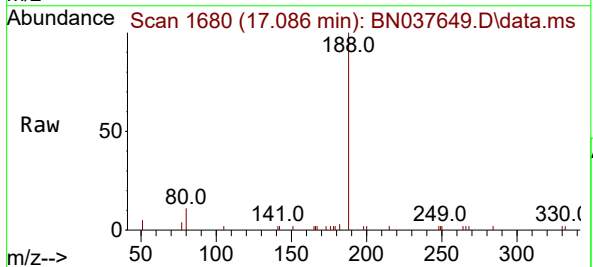
Instrument :
BNA_N
ClientSampleId :
PB169421BL

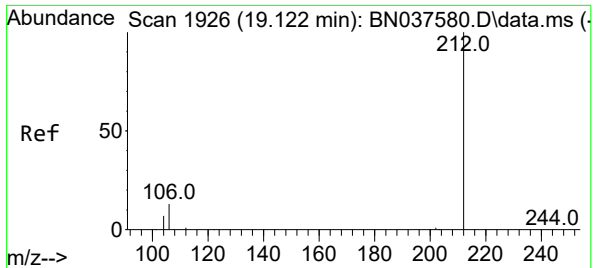
Tgt Ion:172 Resp: 5487
Ion Ratio Lower Upper
172 100
171 36.4 28.2 42.4
170 25.6 19.2 28.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

Tgt Ion:188 Resp: 5175
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.0 9.1 13.7

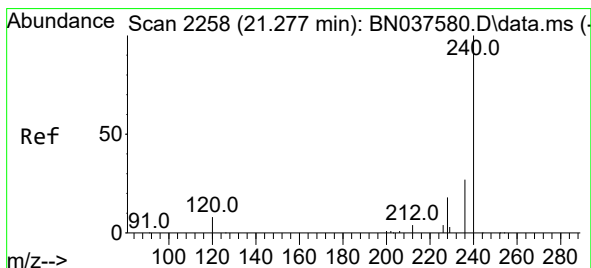
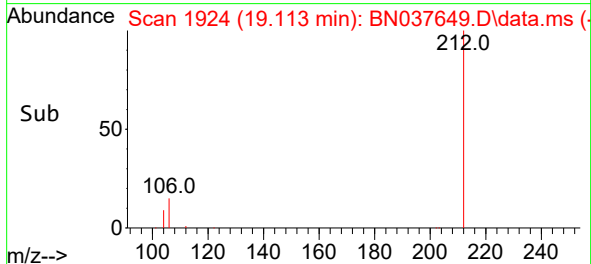
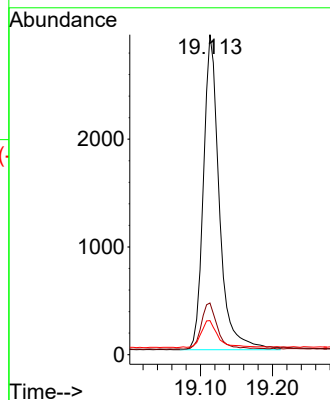
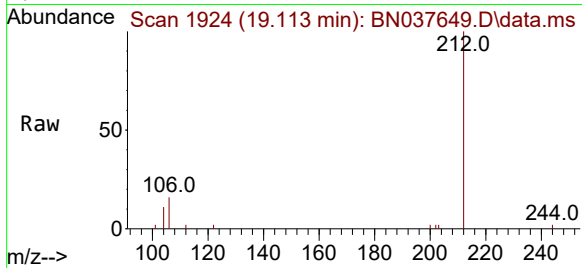




#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.009 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

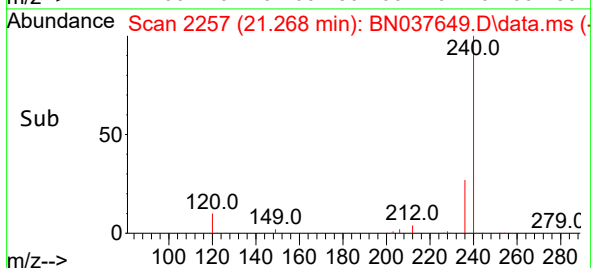
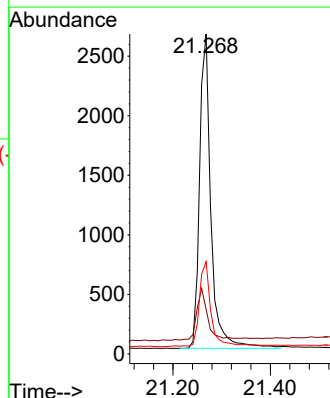
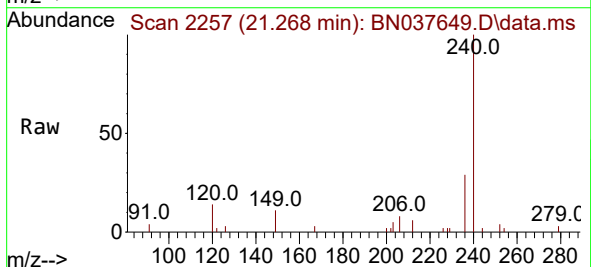
Instrument :
BNA_N
ClientSampleId :
PB169421BL

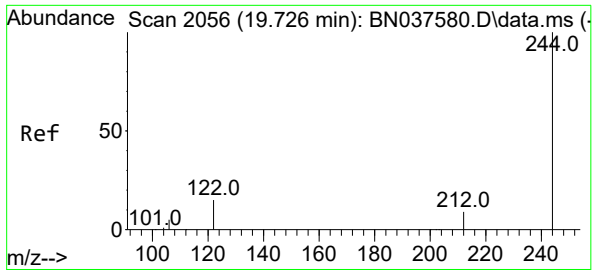
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.9	11.5	17.3
104	9.4	6.6	9.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.009 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.0	8.9	13.3
236	28.8	22.6	33.8

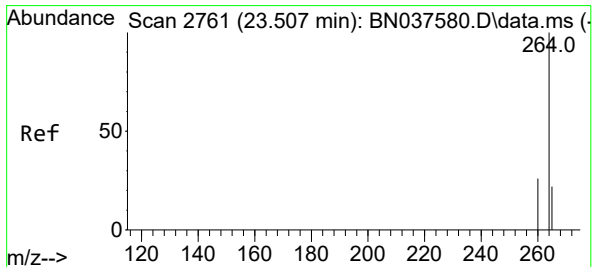
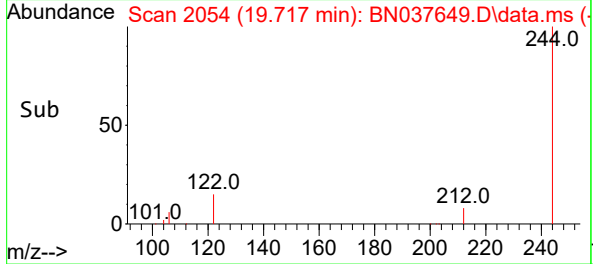
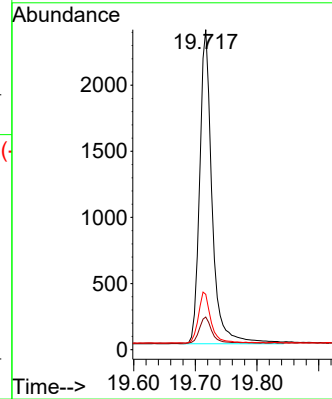
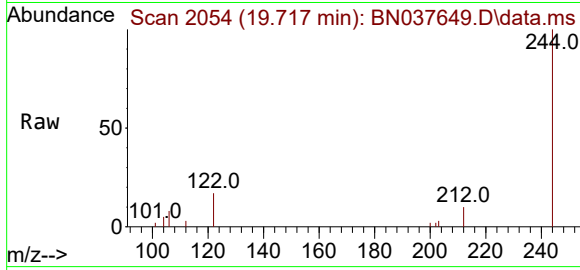




#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

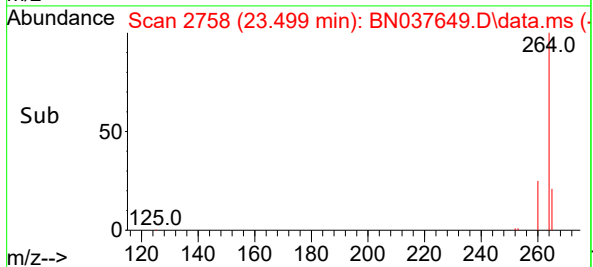
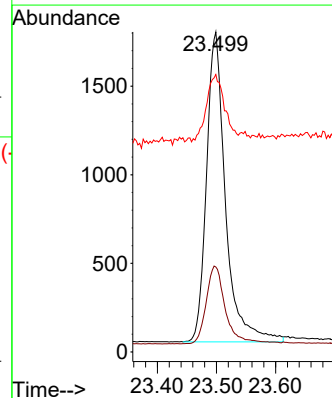
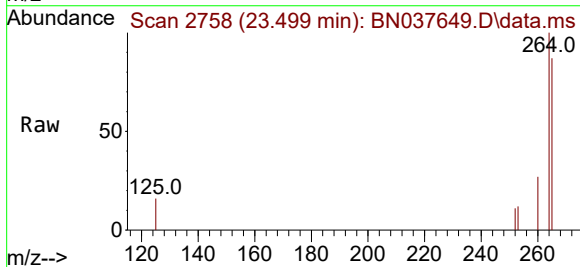
Instrument :
BNA_N
ClientSampleId :
PB169421BL

Tgt Ion:244 Resp: 3337
Ion Ratio Lower Upper
244 100
212 10.2 8.2 12.2
122 17.3 13.2 19.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.499 min Scan# 2758
Delta R.T. -0.009 min
Lab File: BN037649.D
Acq: 28 Aug 2025 10:05

Tgt Ion:264 Resp: 3908
Ion Ratio Lower Upper
264 100
260 26.6 21.6 32.4
265 86.7 48.2 72.4#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169421BS	SDG No.:	Q2937
Lab Sample ID:	PB169421BS	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
BN037652.D	1	08/27/25 08:45	08/28/25 11:54	PB169421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		71%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2770	7.71				
1146-65-2	Naphthalene-d8	6410	10.488				
15067-26-2	Acenaphthene-d10	2790	14.345				
1517-22-2	Phenanthrene-d10	4990	17.087				
1719-03-5	Chrysene-d12	3590	21.268				
1520-96-3	Perylene-d12	3200	23.496				

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\BN082825\
 Data File : BN037652.D
 Acq On : 28 Aug 2025 11:54
 Operator : RC/JU
 Sample : PB169421BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169421BS

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/03/2025
 Supervised By :Jagrut Upadhyay 09/03/2025

Quant Time: Aug 28 12:22:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2769	0.400	ng	0.00
7) Naphthalene-d8	10.488	136	6405	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2792	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4991	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3590	0.400	ng	0.00
35) Perylene-d12	23.496	264	3204	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1994	0.318	ng	0.00
5) Phenol-d6	6.872	99	2198	0.291	ng	0.00
8) Nitrobenzene-d5	8.843	82	1607	0.356	ng	-0.01
11) 2-Methylnaphthalene-d10	12.081	152	2752m	0.316	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	372	0.304	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	6111	0.378	ng	0.00
27) Fluoranthene-d10	19.113	212	3719	0.283	ng	0.00
31) Terphenyl-d14	19.717	244	2658	0.360	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	799	0.302	ng	# 75
3) n-Nitrosodimethylamine	3.536	42	1167	0.345	ng	97
6) bis(2-Chloroethyl)ether	7.132	93	2254	0.331	ng	96
9) Naphthalene	10.541	128	5529	0.324	ng	99
10) Hexachlorobutadiene	10.840	225	1461	0.351	ng	# 100
12) 2-Methylnaphthalene	12.157	142	2982	0.279	ng	99
16) Acenaphthylene	14.056	152	4487	0.359	ng	100
17) Acenaphthene	14.398	154	2726	0.320	ng	99
18) Fluorene	15.393	166	3517	0.316	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	194	0.395	ng	94
21) 4-Bromophenyl-phenylether	16.280	248	1025	0.327	ng	# 88
22) Hexachlorobenzene	16.391	284	1647	0.370	ng	97
23) Atrazine	16.553	200	646	0.364	ng	95
24) Pentachlorophenol	16.739	266	833	0.533	ng	99
25) Phenanthrene	17.124	178	4916	0.324	ng	99
26) Anthracene	17.211	178	4311	0.321	ng	100
28) Fluoranthene	19.141	202	4833	0.277	ng	99
30) Pyrene	19.503	202	4645	0.346	ng	99
32) Benzo(a)anthracene	21.250	228	4093	0.341	ng	99
33) Chrysene	21.295	228	4542	0.340	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	1759	0.355	ng	99
36) Indeno(1,2,3-cd)pyrene	25.750	276	4546	0.337	ng	99
37) Benzo(b)fluoranthene	22.824	252	4267	0.351	ng	94
38) Benzo(k)fluoranthene	22.867	252	4412	0.322	ng	94
39) Benzo(a)pyrene	23.397	252	3577	0.355	ng	# 91
40) Dibenzo(a,h)anthracene	25.768	278	3387	0.323	ng	95
41) Benzo(g,h,i)perylene	26.431	276	4128	0.374	ng	97

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

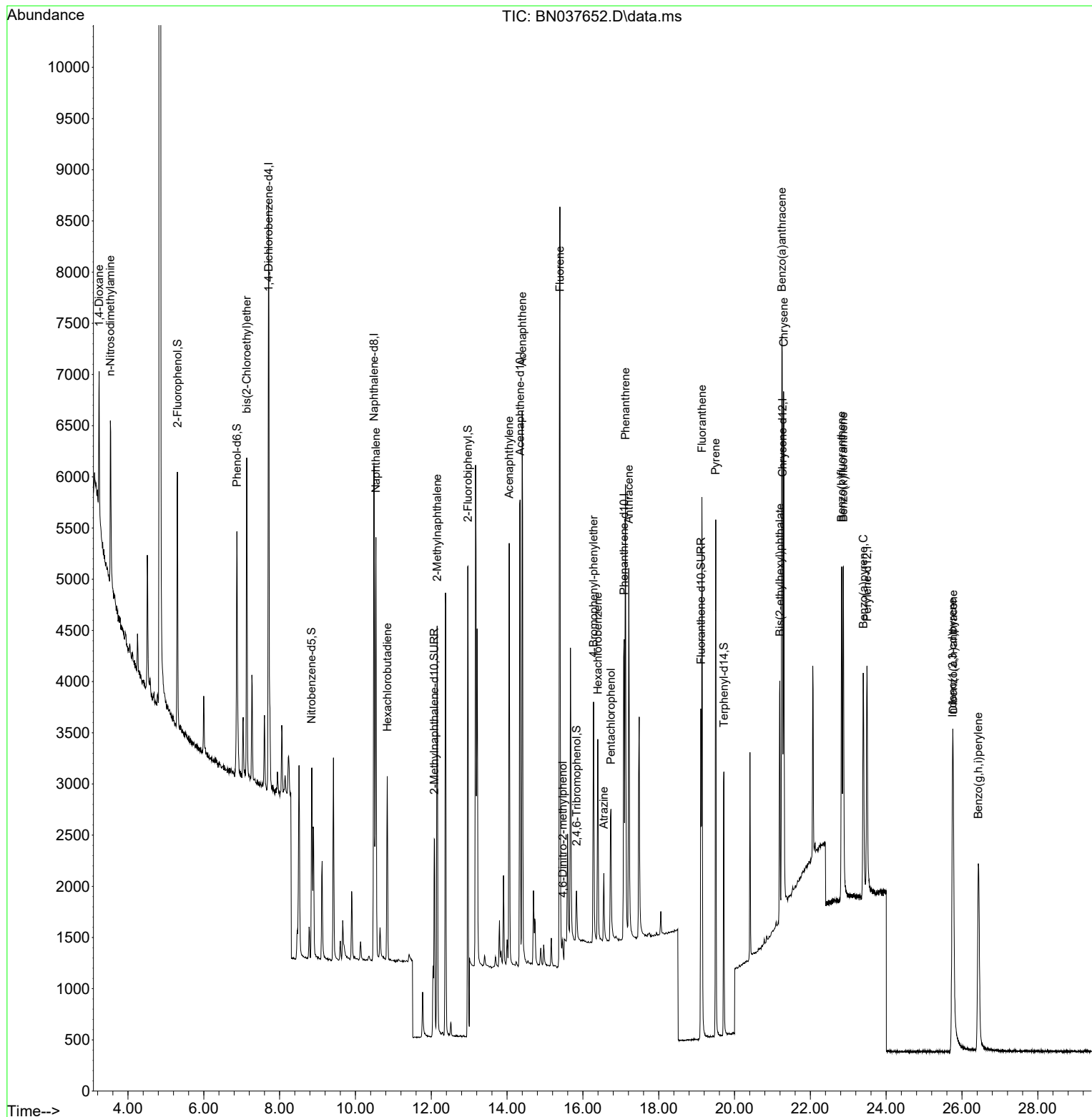
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 Acq On : 28 Aug 2025 11:54
 Operator : RC/JU
 Sample : PB169421BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

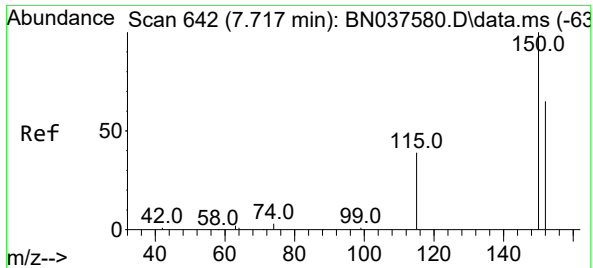
Instrument :
 BNA_N
 ClientSampleId :
 PB169421BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/03/2025
 Supervised By :Jagrut Upadhyay 09/03/2025

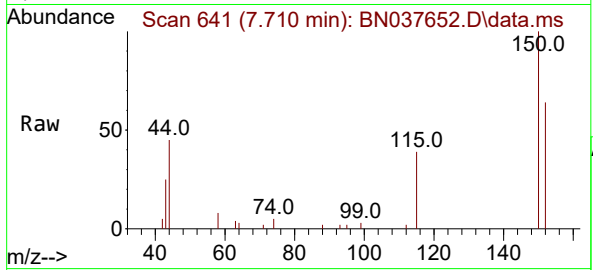
Quant Time: Aug 28 12:22:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 642
Delta R.T. -0.007 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

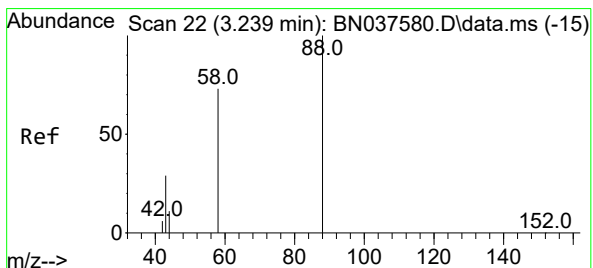
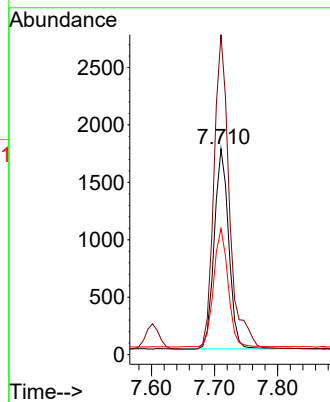
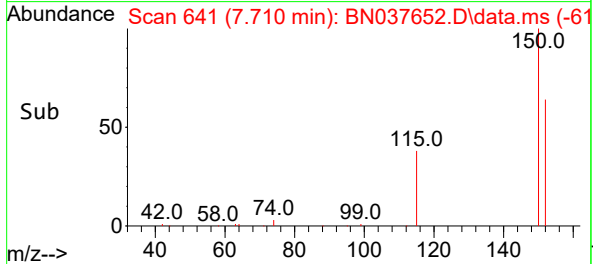
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion: 152 Resp: 2769
Ion Ratio Lower Upper
152 100
150 155.5 122.2 183.4
115 61.2 49.8 74.6

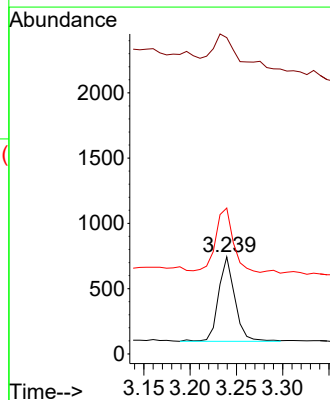
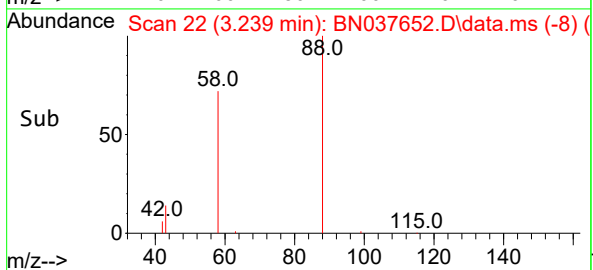
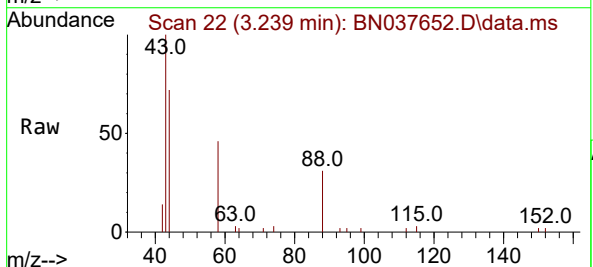
Manual Integrations
APPROVED

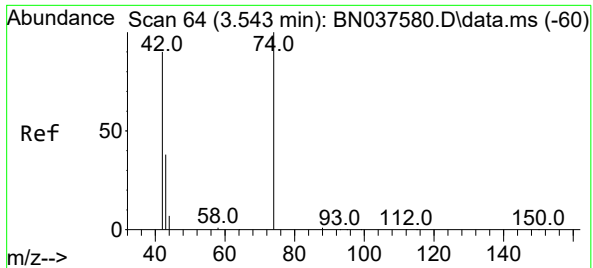
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#2
1,4-Dioxane
Concen: 0.302 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

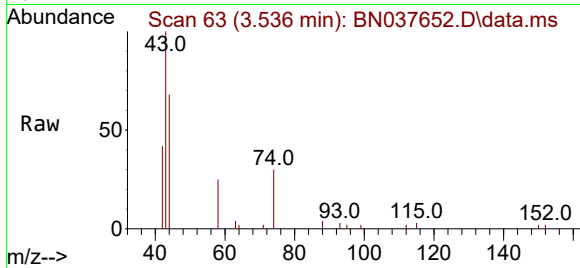
Tgt Ion: 88 Resp: 799
Ion Ratio Lower Upper
88 100
43 72.1 25.8 38.6#
58 81.7 61.2 91.8





#3
n-Nitrosodimethylamine
Concen: 0.345 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

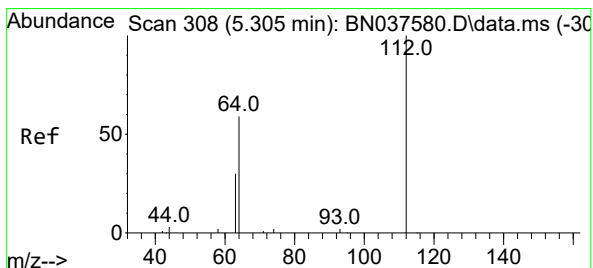
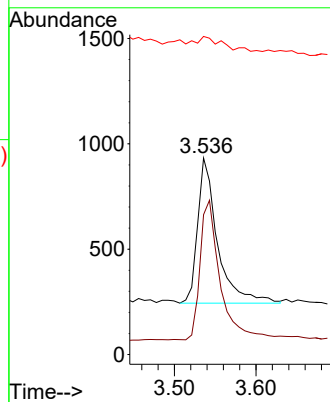
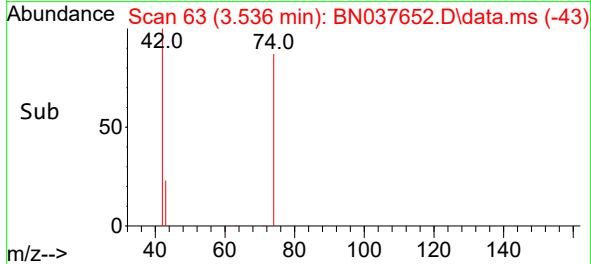
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion: 42 Resp: 116
Ion Ratio Lower Upper
42 100
74 99.9 82.0 123.0
44 11.1 7.9 11.9

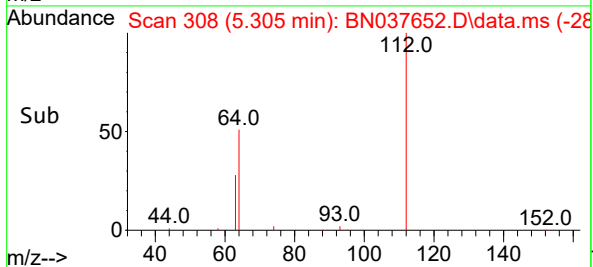
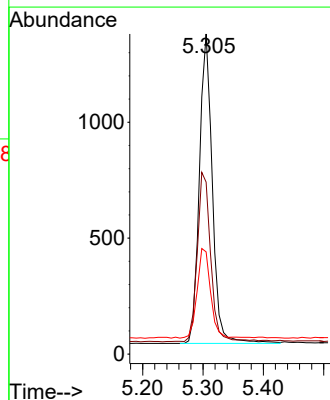
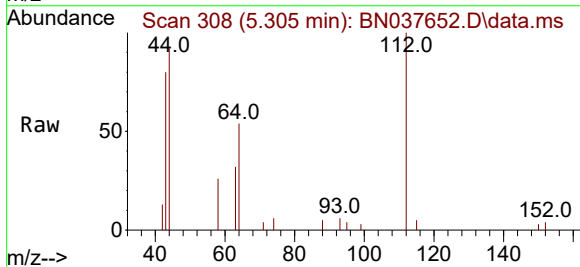
Manual Integrations
APPROVED

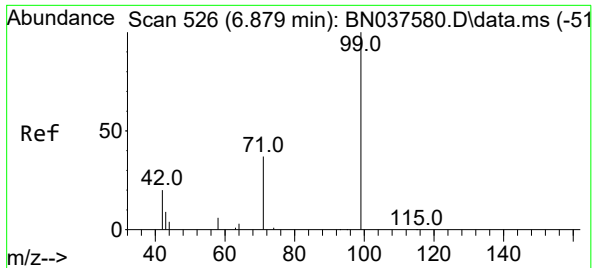
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#4
2-Fluorophenol
Concen: 0.318 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

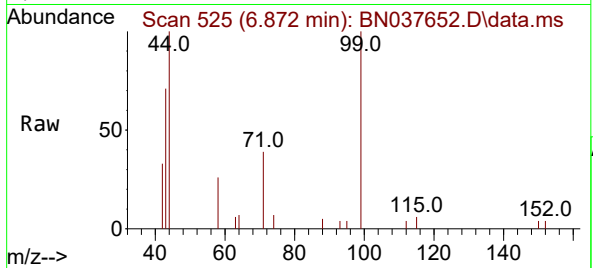
Tgt Ion:112 Resp: 1994
Ion Ratio Lower Upper
112 100
64 57.0 44.9 67.3
63 30.1 23.4 35.2





#5
Phenol-d6
Concen: 0.291 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

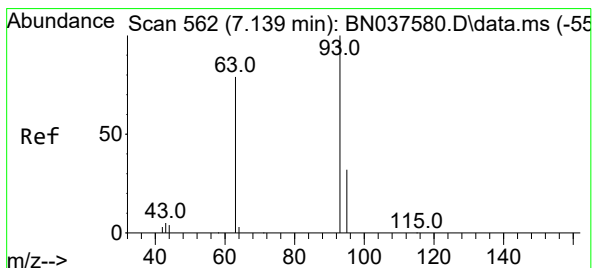
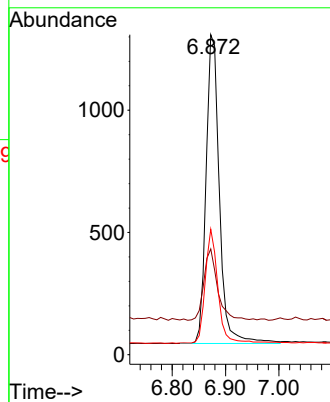
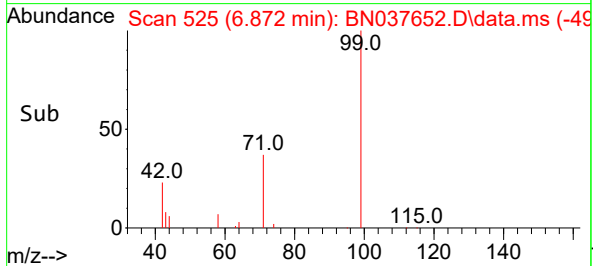
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion: 99 Resp: 2198
Ion Ratio Lower Upper
99 100
42 23.7 18.5 27.7
71 35.0 28.6 42.8

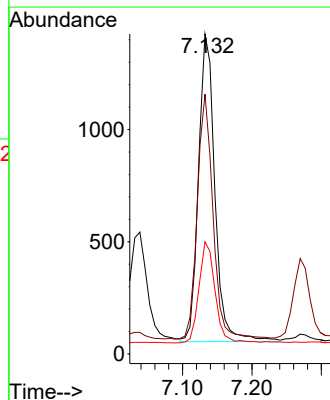
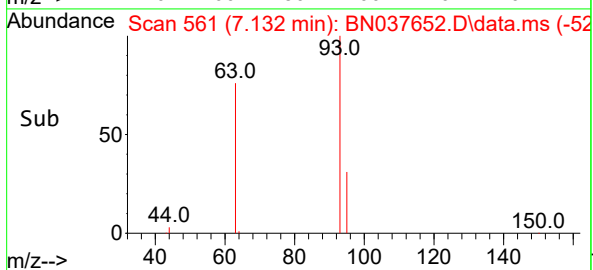
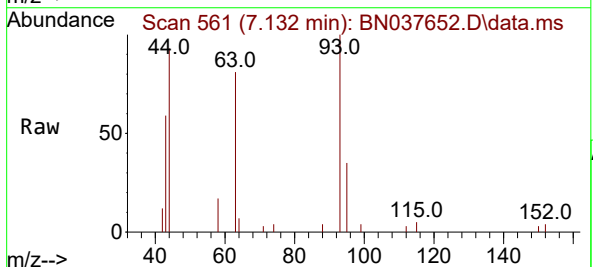
Manual Integrations
APPROVED

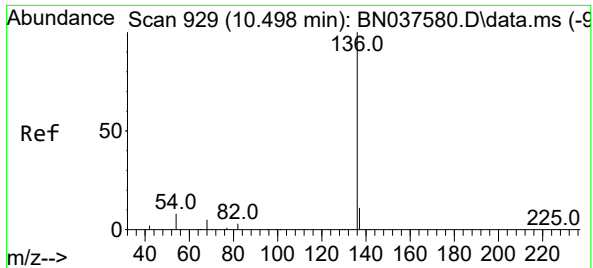
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.331 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion: 93 Resp: 2254
Ion Ratio Lower Upper
93 100
63 76.4 58.0 87.0
95 32.3 24.9 37.3





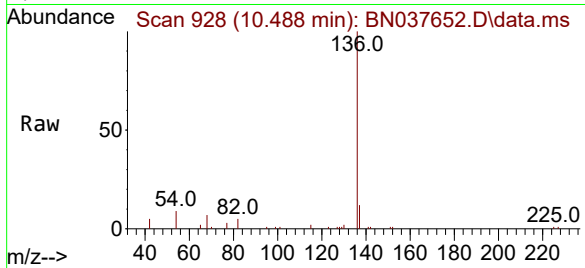
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

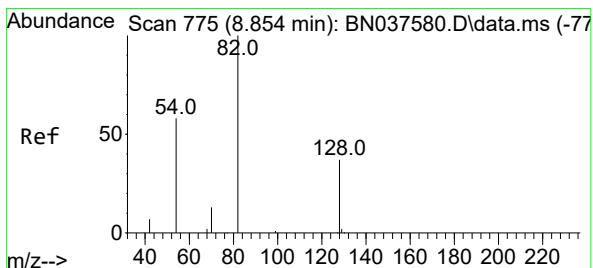
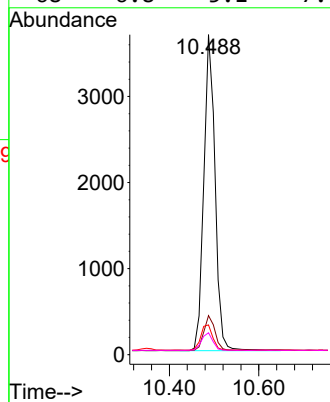
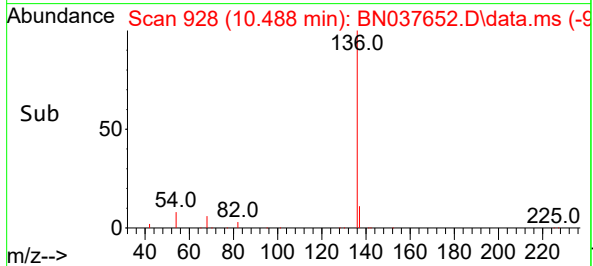


Tgt Ion:136 Resp: 640
Ion Ratio Lower Upper
136 100
137 12.2 9.5 14.3
54 9.3 7.3 10.9
68 6.8 5.1 7.7

Manual Integrations

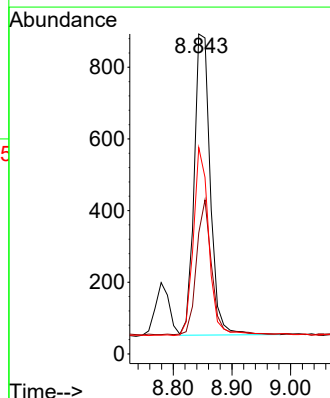
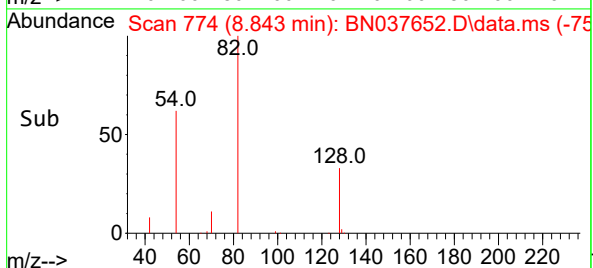
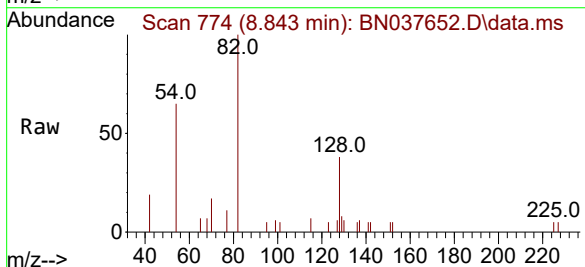
APPROVED

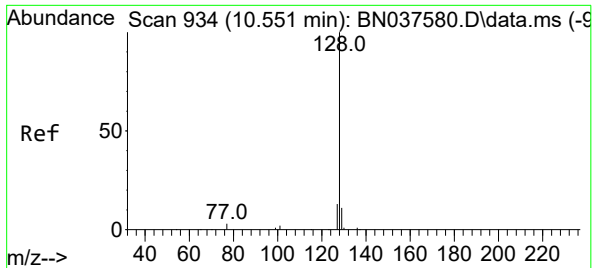
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#8
Nitrobenzene-d5
Concen: 0.356 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion: 82 Resp: 1607
Ion Ratio Lower Upper
82 100
128 37.8 32.6 48.8
54 64.5 48.9 73.3





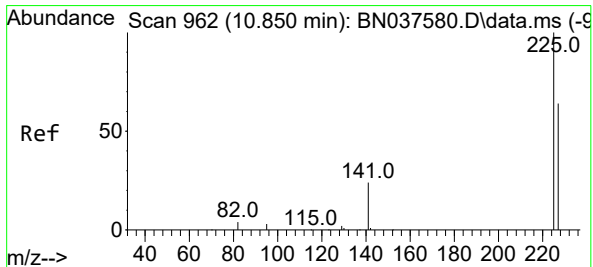
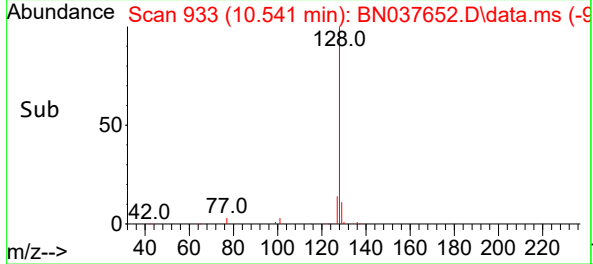
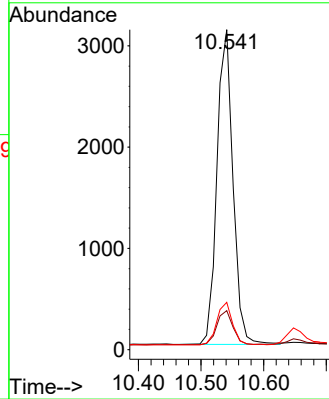
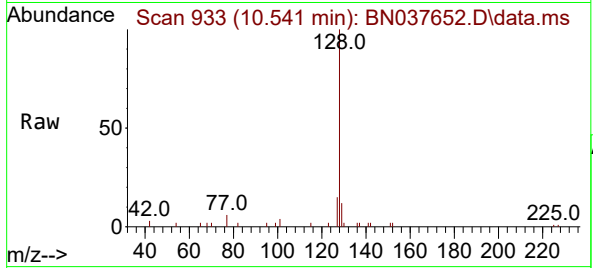
#9
Naphthalene
Concen: 0.324 ng
RT: 10.541 min Scan# 911
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Instrument :
BNA_N
ClientSampleId :
PB169421BS

Tgt Ion:128 Resp: 5529
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.8 11.5 17.3

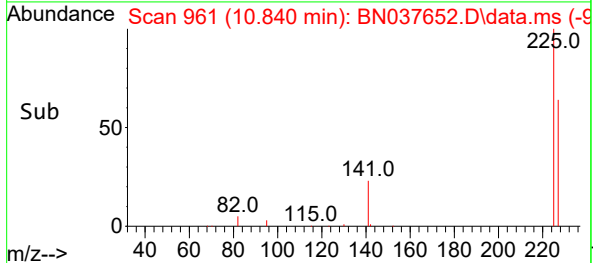
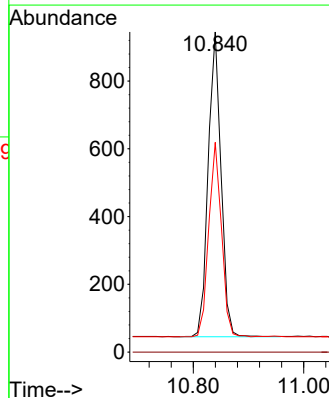
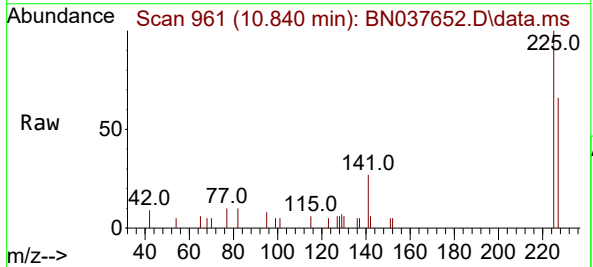
Manual Integrations
APPROVED

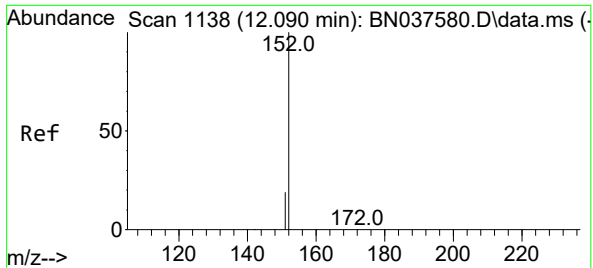
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#10
Hexachlorobutadiene
Concen: 0.351 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

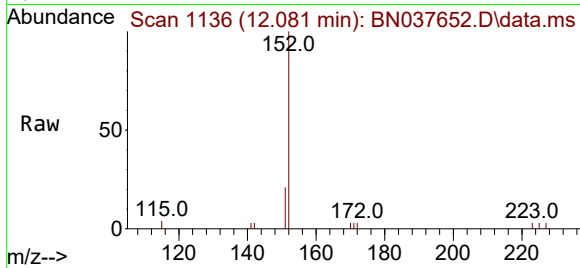
Tgt Ion:225 Resp: 1461
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 50.8 76.2





#11
2-Methylnaphthalene-d10
Concen: 0.316 ng m
RT: 12.081 min Scan# 1136
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

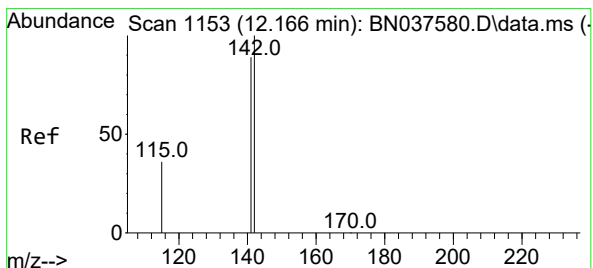
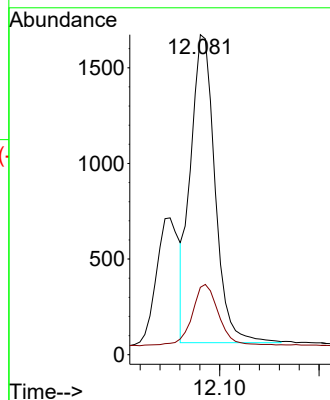
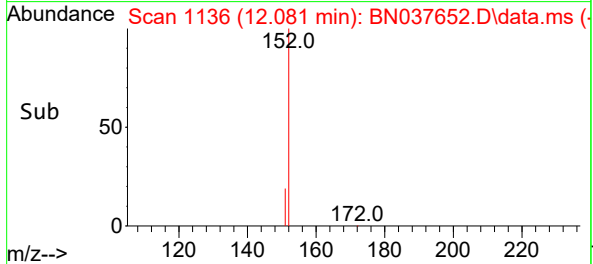
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion:152 Resp: 2752
Ion Ratio Lower Upper
152 100
151 22.1 17.3 25.9

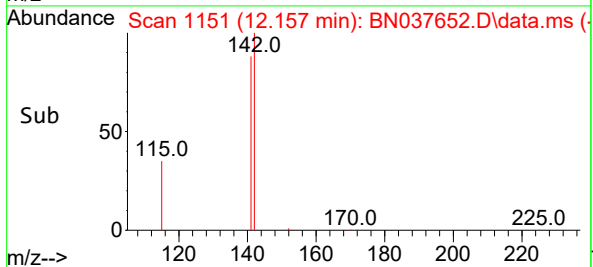
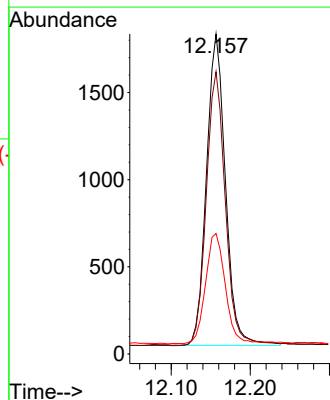
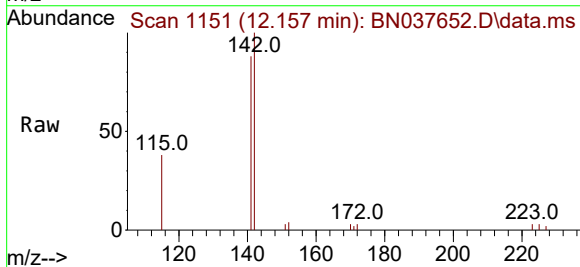
Manual Integrations
APPROVED

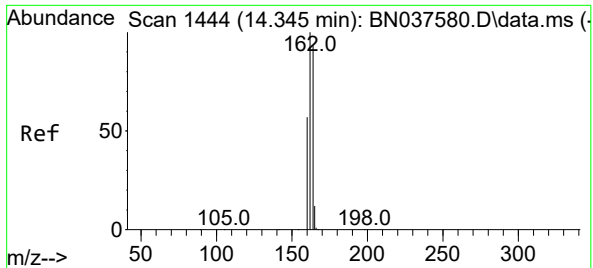
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#12
2-Methylnaphthalene
Concen: 0.279 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

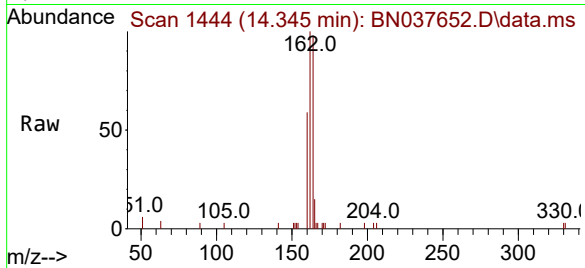
Tgt Ion:142 Resp: 2982
Ion Ratio Lower Upper
142 100
141 88.2 71.4 107.0
115 37.6 30.2 45.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

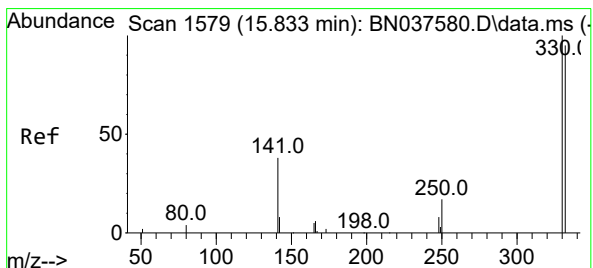
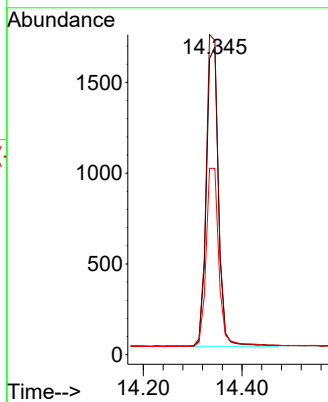
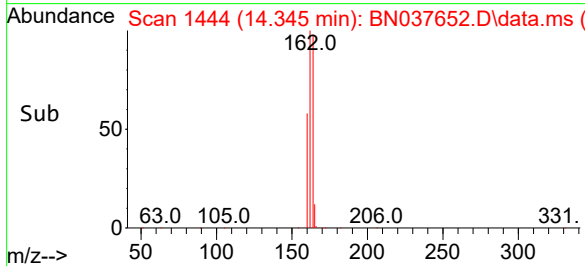
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion:164 Resp: 2792
Ion Ratio Lower Upper
164 100
162 102.2 85.5 128.3
160 60.6 49.5 74.3

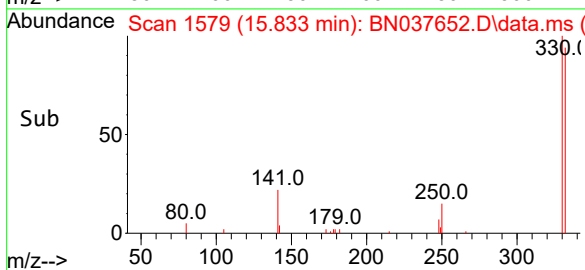
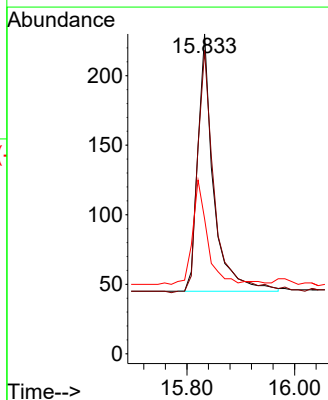
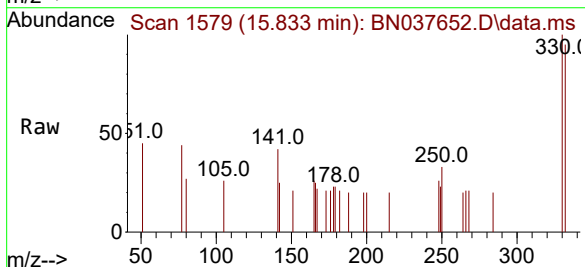
Manual Integrations
APPROVED

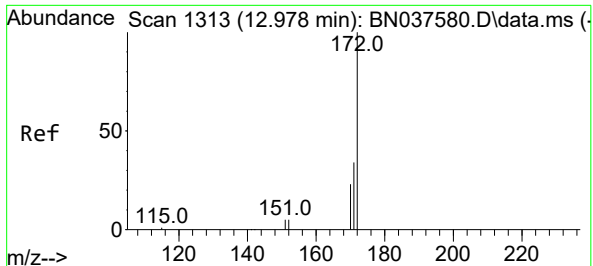
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#14
2,4,6-Tribromophenol
Concen: 0.304 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

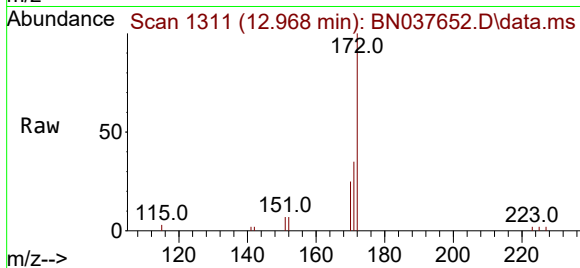
Tgt Ion:330 Resp: 372
Ion Ratio Lower Upper
330 100
332 102.7 77.4 116.0
141 38.2 30.9 46.3





#15
2-Fluorobiphenyl
Concen: 0.378 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

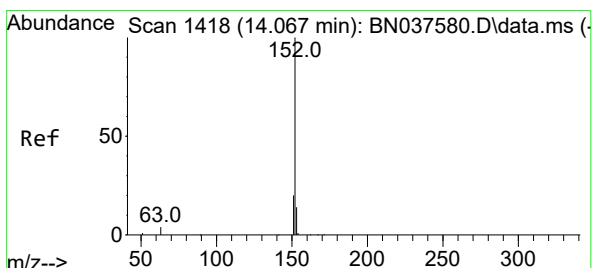
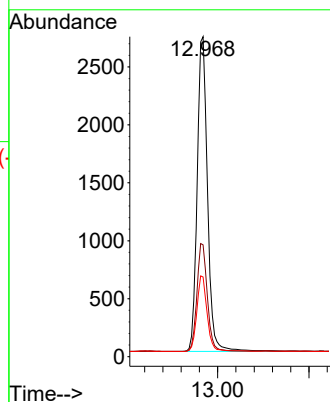
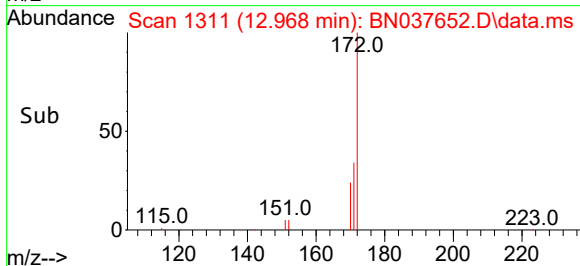
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion:172 Resp: 611
Ion Ratio Lower Upper
172 100
171 35.0 28.2 42.4
170 24.9 19.2 28.8

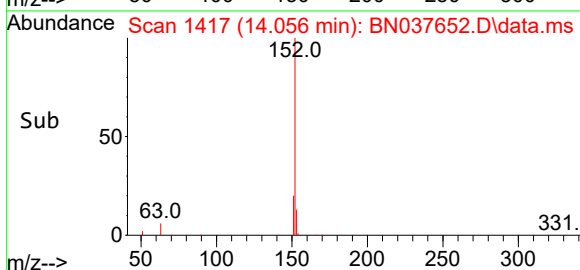
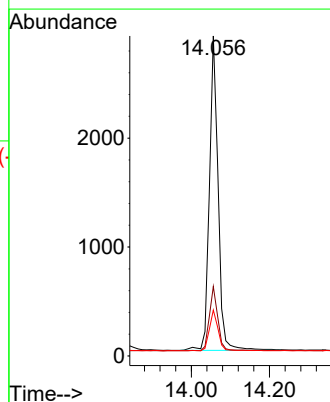
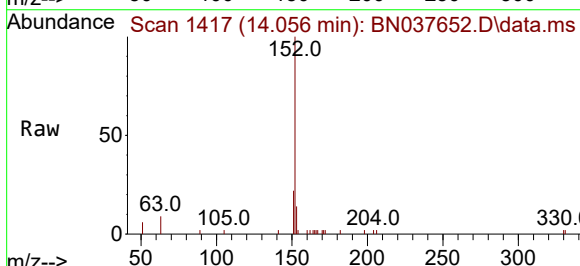
Manual Integrations
APPROVED

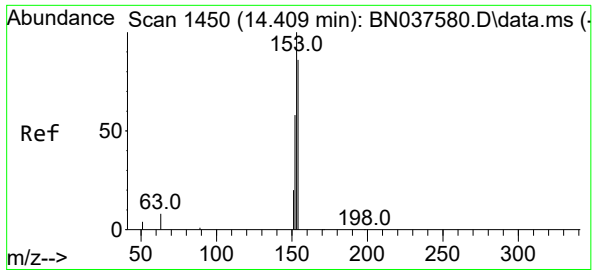
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#16
Acenaphthylene
Concen: 0.359 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:152 Resp: 4487
Ion Ratio Lower Upper
152 100
151 19.9 16.1 24.1
153 13.3 10.7 16.1





#17

Acenaphthene

Concen: 0.320 ng

RT: 14.398 min Scan# 1449

Delta R.T. -0.010 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

Tgt Ion:154 Resp: 2720

Ion Ratio Lower Upper

154 100

153 114.5 90.6 135.8

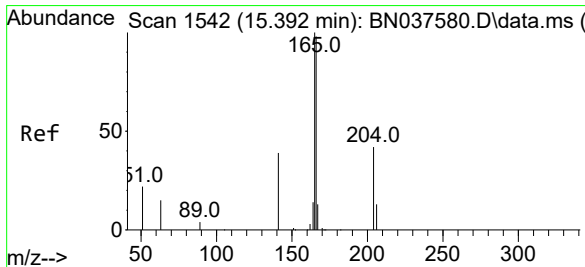
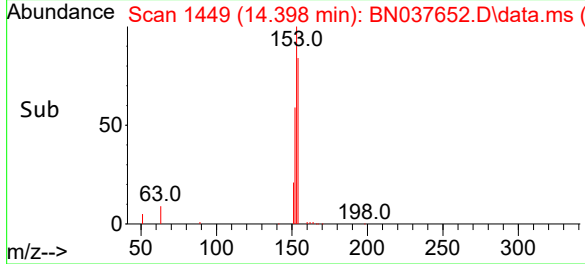
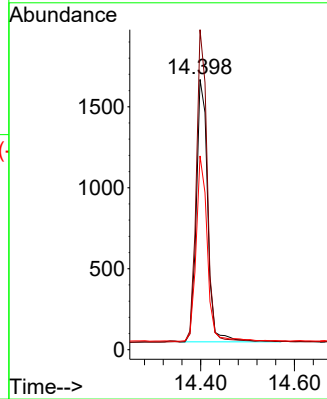
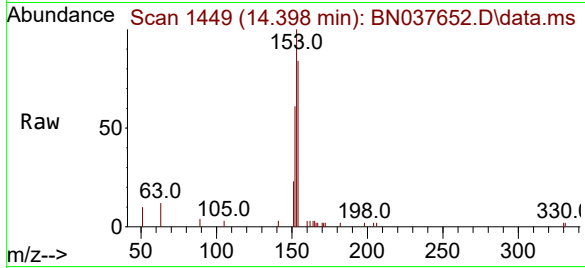
152 69.2 54.9 82.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#18

Fluorene

Concen: 0.316 ng

RT: 15.393 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

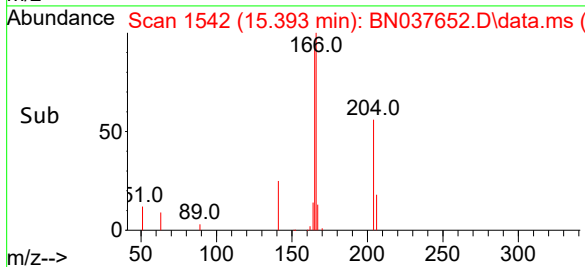
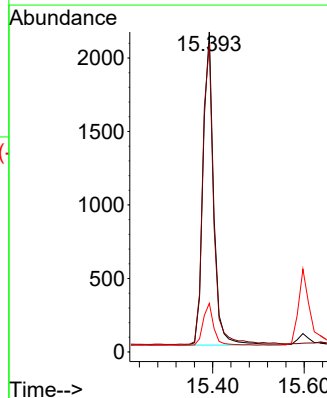
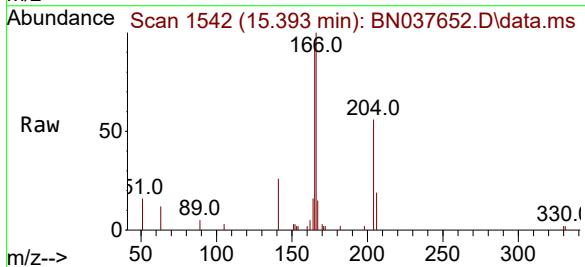
Tgt Ion:166 Resp: 3517

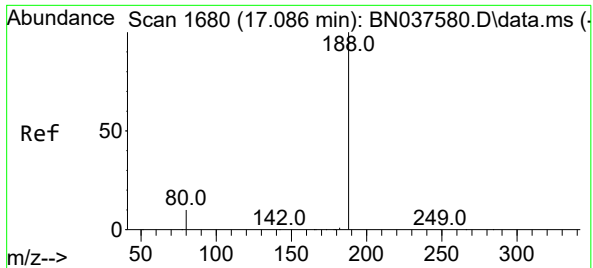
Ion Ratio Lower Upper

166 100

165 98.5 78.9 118.3

167 13.1 10.7 16.1





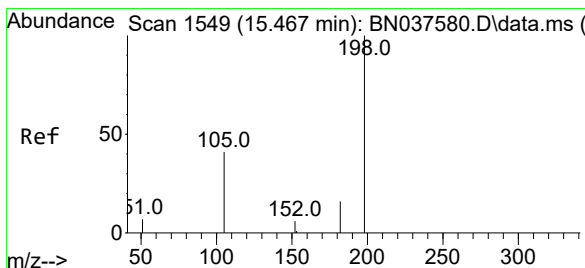
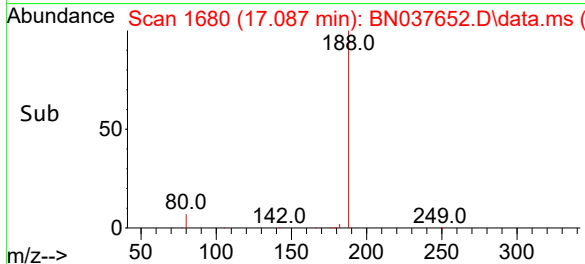
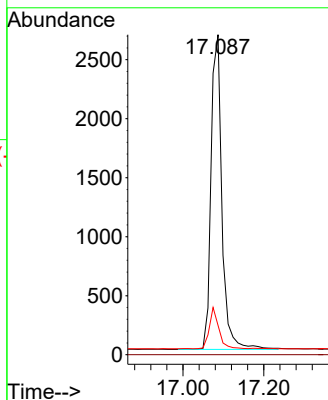
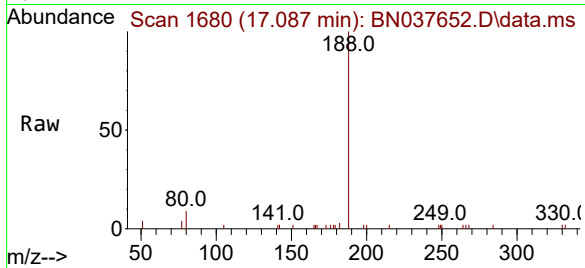
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Instrument :
BNA_N
ClientSampleId :
PB169421BS

Tgt Ion:188 Resp: 499
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 9.1 13.7

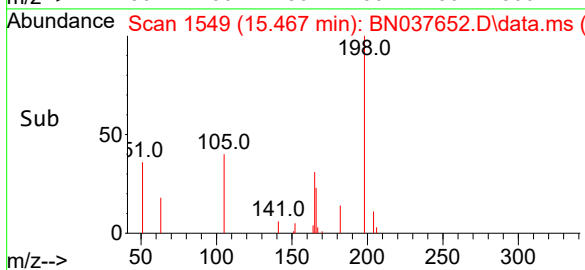
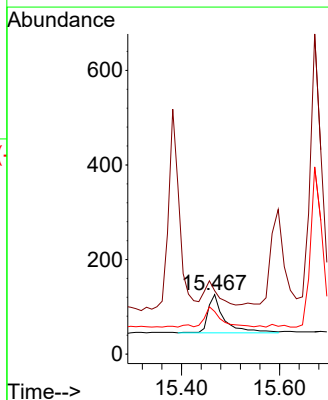
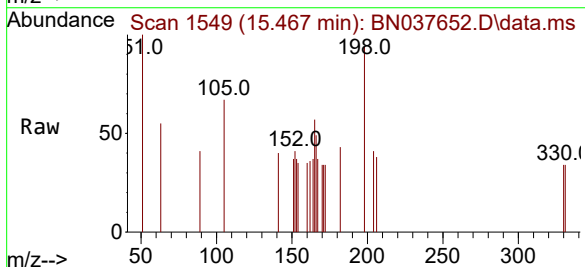
Manual Integrations
APPROVED

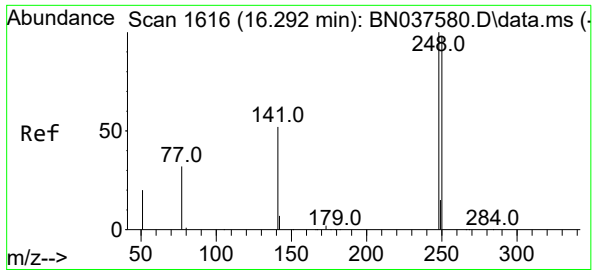
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

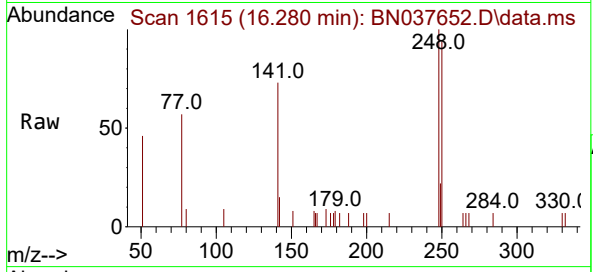
Tgt Ion:198 Resp: 194
Ion Ratio Lower Upper
198 100
51 106.3 81.0 121.6
105 71.4 52.5 78.7





#21
4-Bromophenyl-phenylether
Concen: 0.327 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

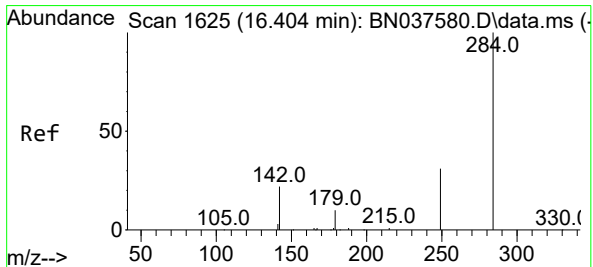
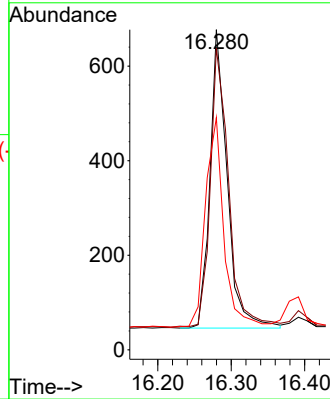
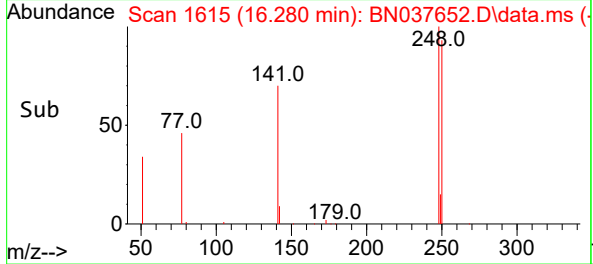
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion:248 Resp: 1025
Ion Ratio Lower Upper
248 100
250 94.2 78.6 118.0
141 72.5 43.7 65.5

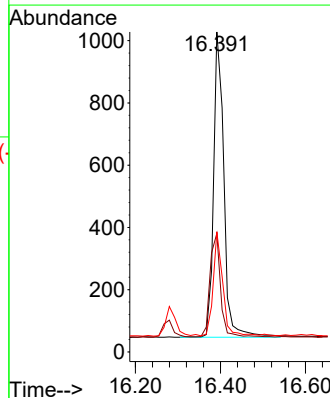
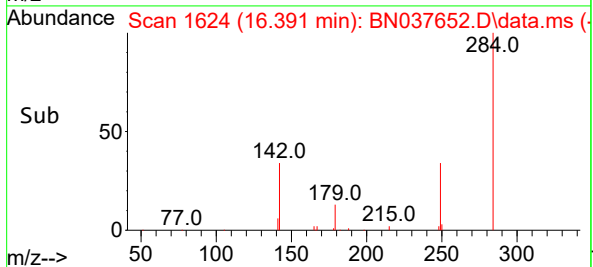
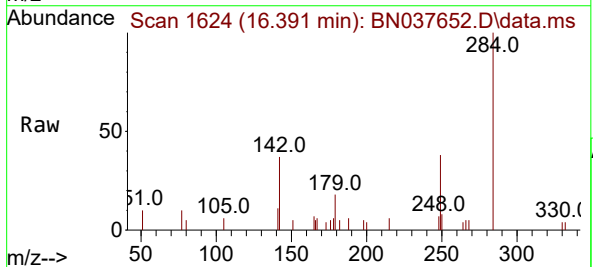
Manual Integrations
APPROVED

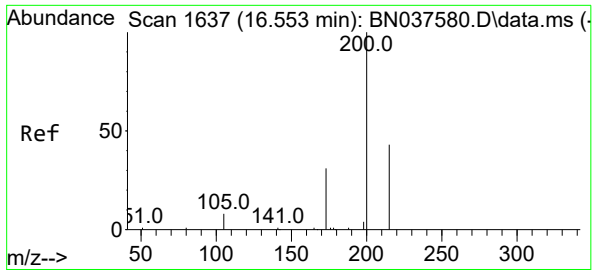
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:284 Resp: 1647
Ion Ratio Lower Upper
284 100
142 35.0 29.8 44.6
249 31.3 26.0 39.0





#23

Atrazine

Concen: 0.364 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

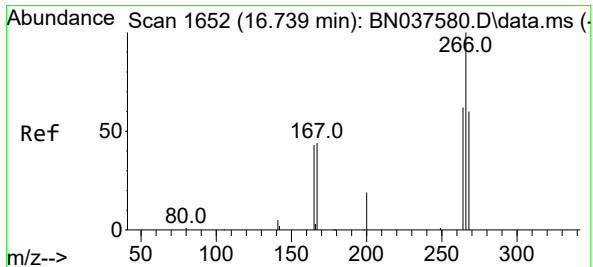
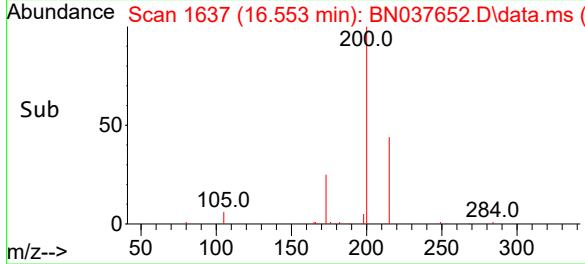
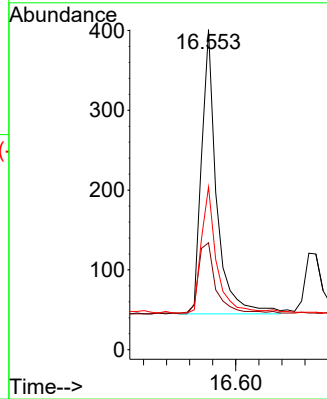
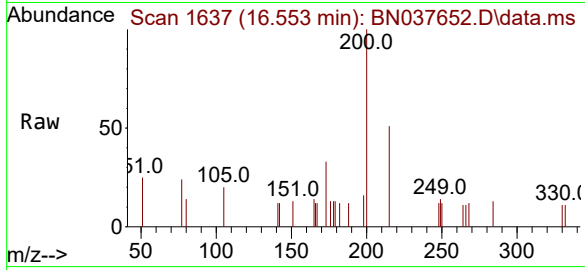
Tgt Ion:	200	Resp:	640
Ion Ratio	Lower	Upper	
200	100		
173	33.4	31.0	46.4
215	50.9	39.4	59.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#24

Pentachlorophenol

Concen: 0.533 ng

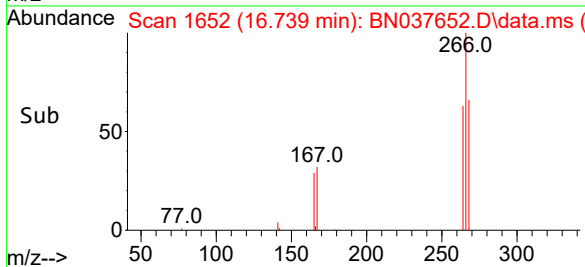
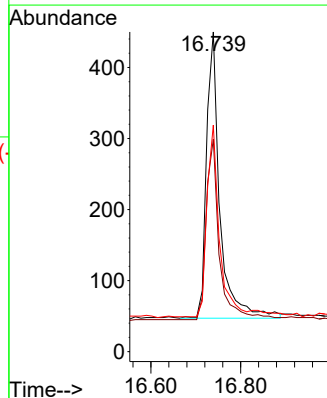
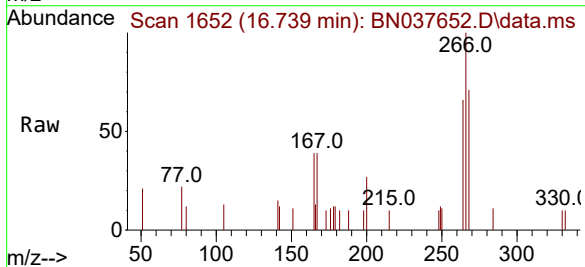
RT: 16.739 min Scan# 1652

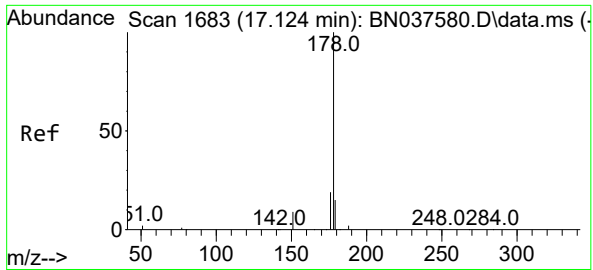
Delta R.T. 0.000 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

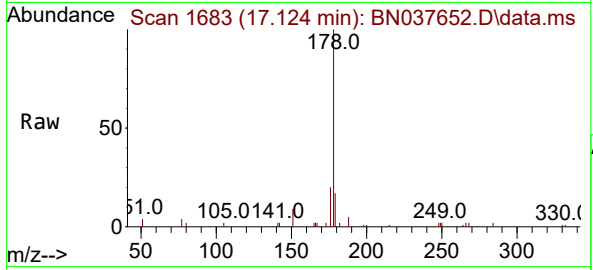
Tgt Ion:	266	Resp:	833
Ion Ratio	Lower	Upper	
266	100		
264	61.7	49.6	74.4
268	62.1	49.2	73.8





#25
Phenanthrene
Concen: 0.324 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

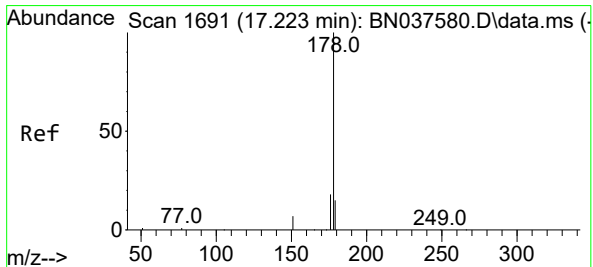
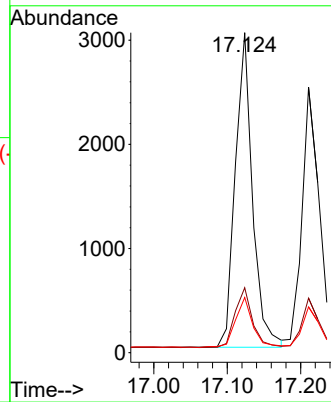
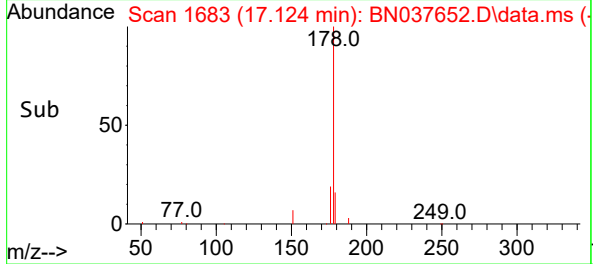
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion:178 Resp: 4910
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.8 12.3 18.5

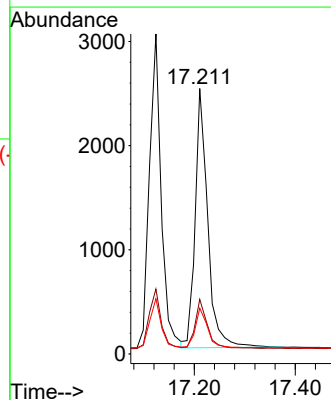
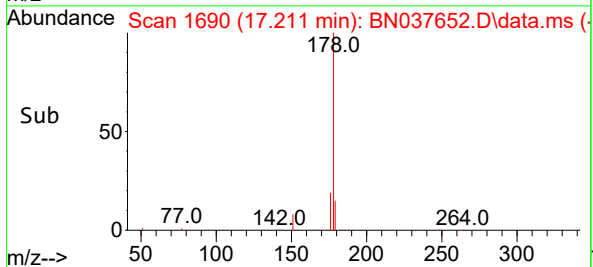
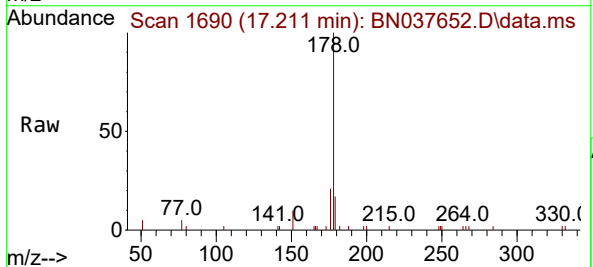
Manual Integrations
APPROVED

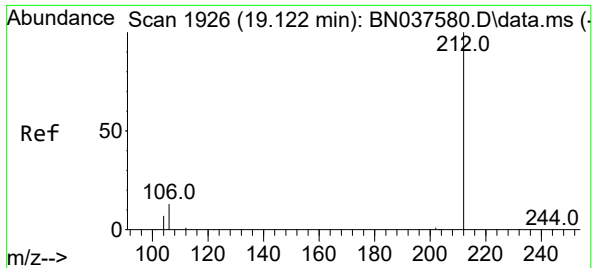
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#26
Anthracene
Concen: 0.321 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:178 Resp: 4311
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.7 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.283 ng

RT: 19.113 min Scan# 1926

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

Tgt Ion:212 Resp: 3719

Ion Ratio Lower Upper

212 100

106 15.2 11.5 17.3

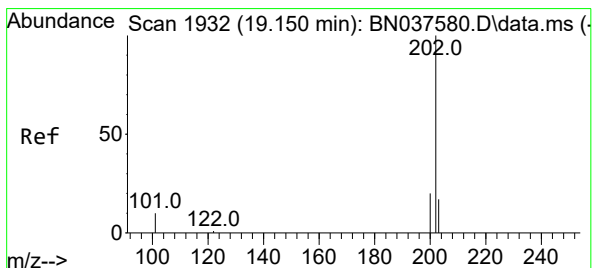
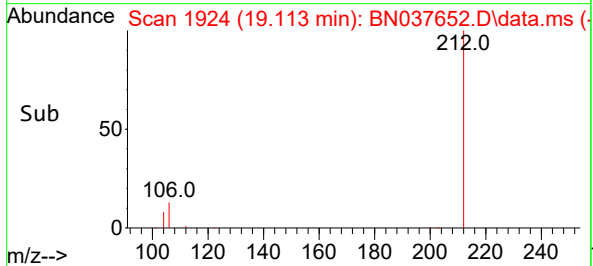
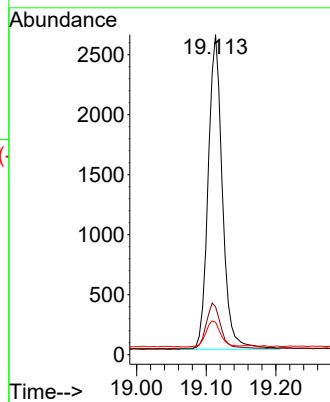
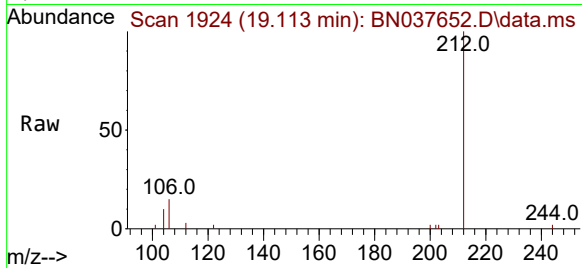
104 8.6 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#28

Fluoranthene

Concen: 0.277 ng

RT: 19.141 min Scan# 1930

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

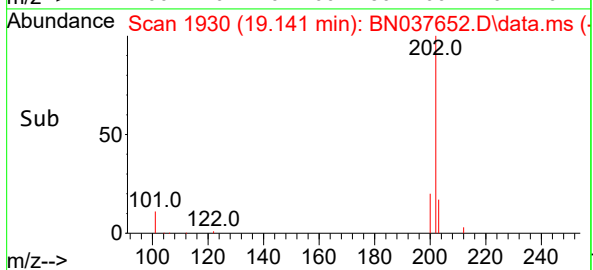
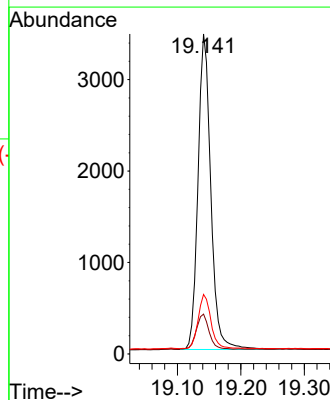
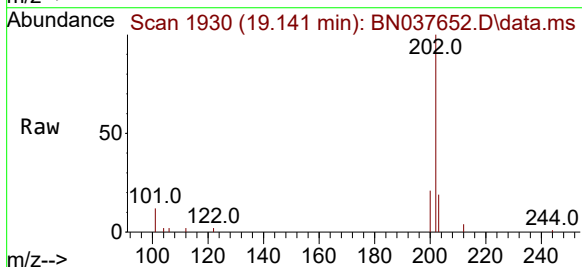
Tgt Ion:202 Resp: 4833

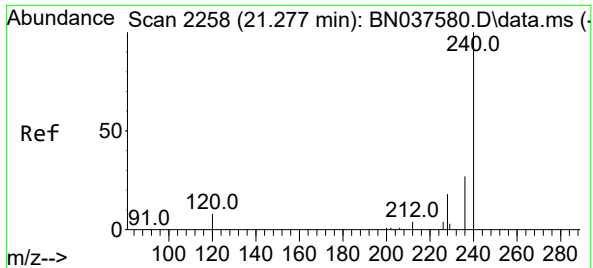
Ion Ratio Lower Upper

202 100

101 10.9 9.0 13.6

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

Tgt Ion:240 Resp: 3590

Ion Ratio Lower Upper

240 100

120 13.2 8.9 13.3

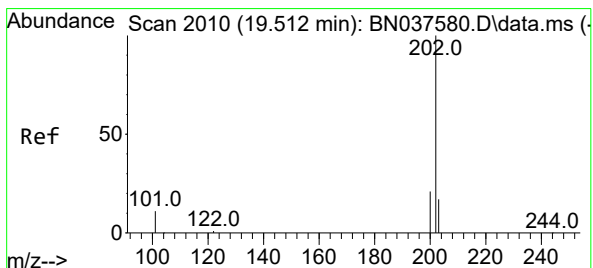
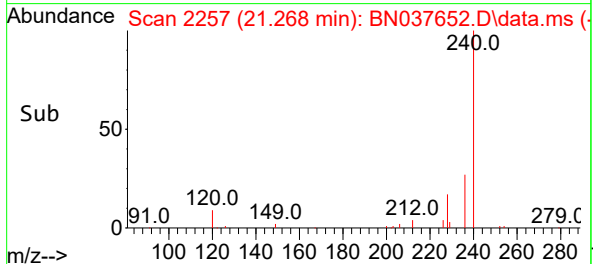
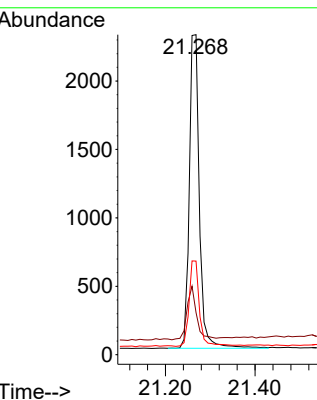
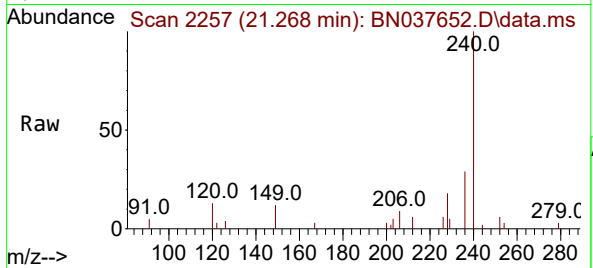
236 29.2 22.6 33.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#30

Pyrene

Concen: 0.346 ng

RT: 19.503 min Scan# 2008

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

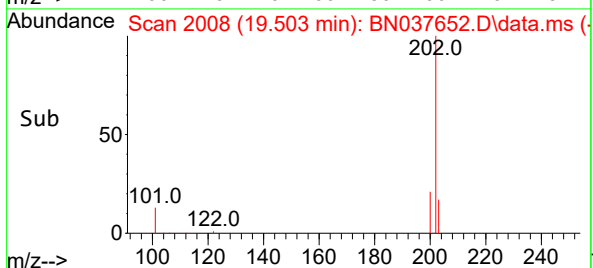
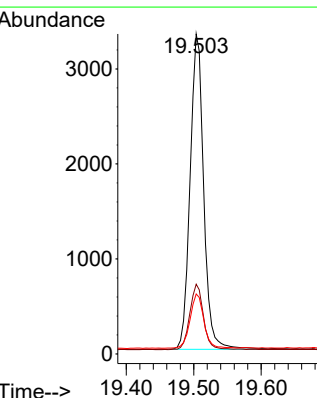
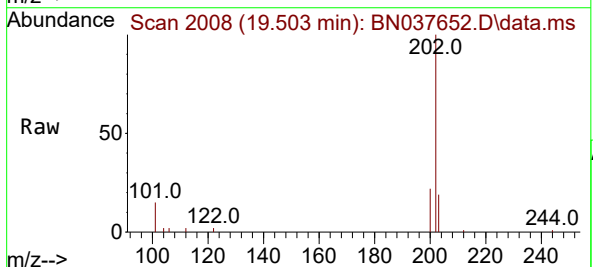
Tgt Ion:202 Resp: 4645

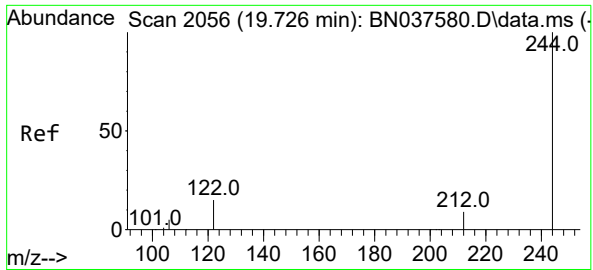
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.3 14.3 21.5





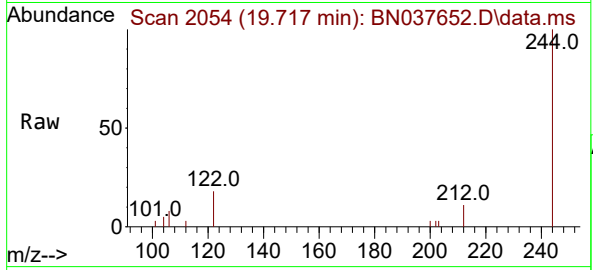
#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS



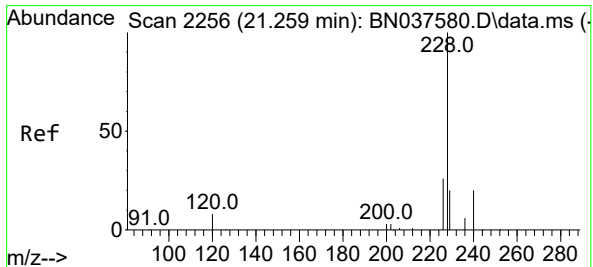
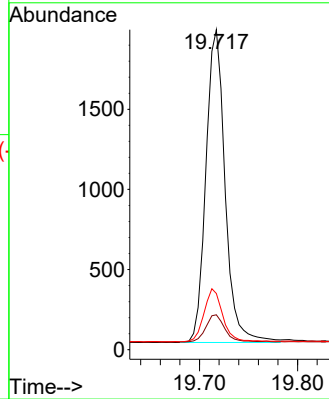
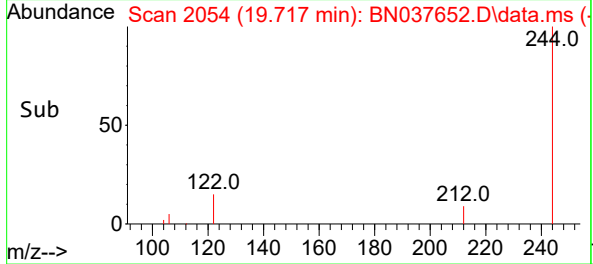
Tgt Ion:244 Resp: 2658
Ion Ratio Lower Upper
244 100
212 10.9 8.2 12.2
122 17.5 13.2 19.8

Manual Integrations

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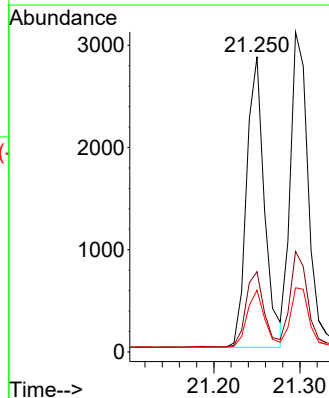
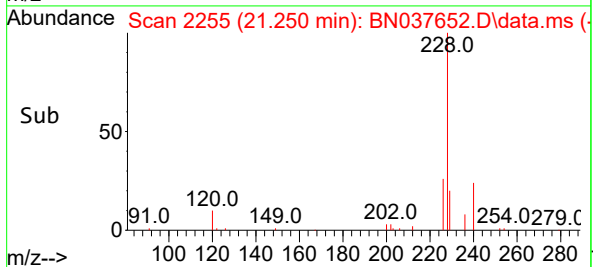
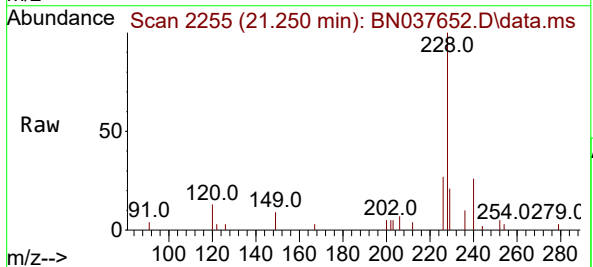
Reviewed By :Rahul Chavli 09/03/2025

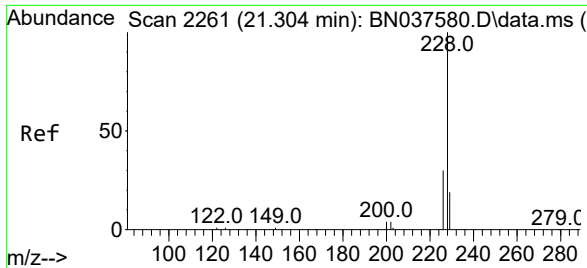
Supervised By :Jagrut Upadhyay 09/03/2025



#32
Benzo(a)anthracene
Concen: 0.341 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:228 Resp: 4093
Ion Ratio Lower Upper
228 100
226 27.2 21.5 32.3
229 20.9 16.5 24.7





#33

Chrysene

Concen: 0.340 ng

RT: 21.295 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037652.D

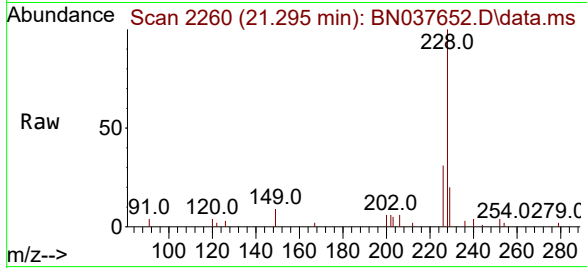
Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS



Tgt Ion:228 Resp: 454

Ion Ratio Lower Upper

228 100

226 31.5 24.9 37.3

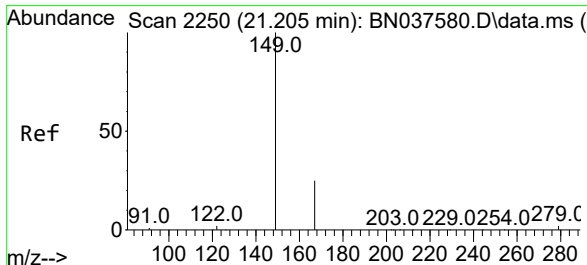
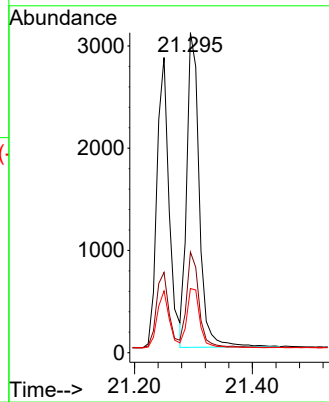
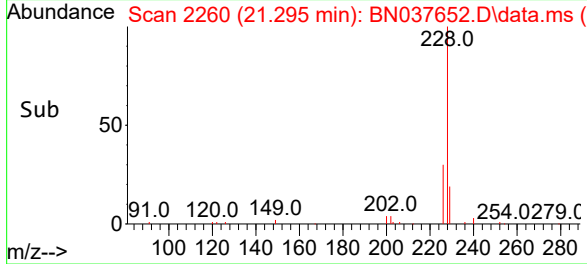
229 20.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#34

Bis(2-ethylhexyl)phthalate

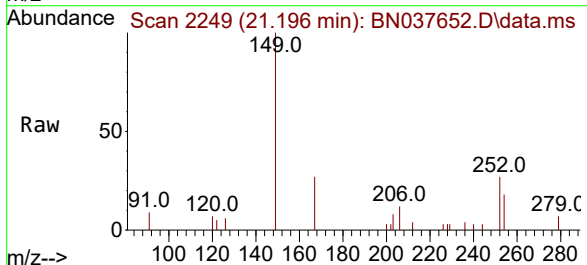
Concen: 0.355 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54



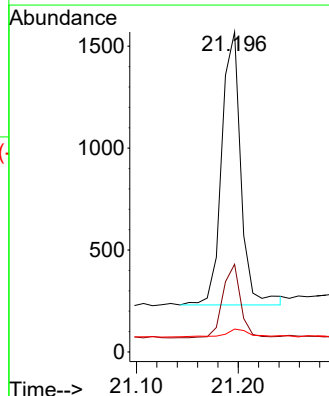
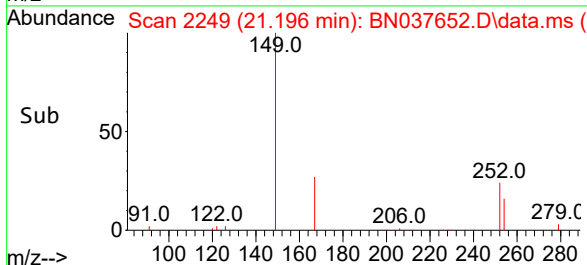
Tgt Ion:149 Resp: 1759

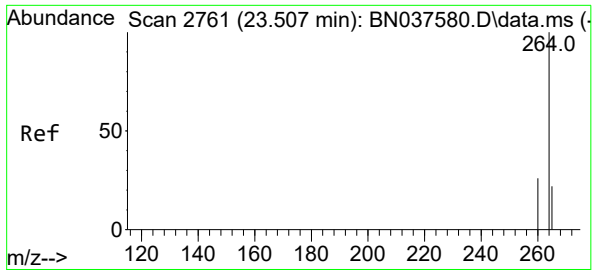
Ion Ratio Lower Upper

149 100

167 24.8 20.5 30.7

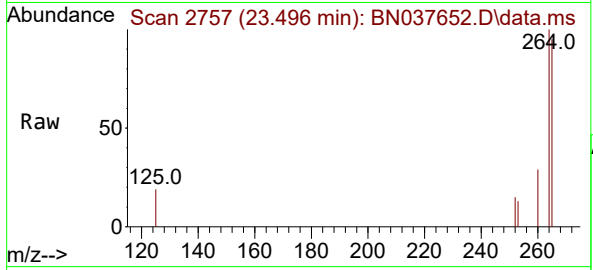
279 3.8 2.6 4.0





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.496 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

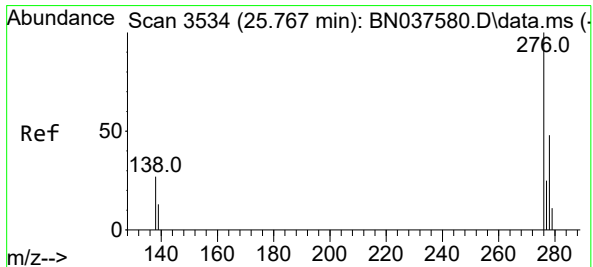
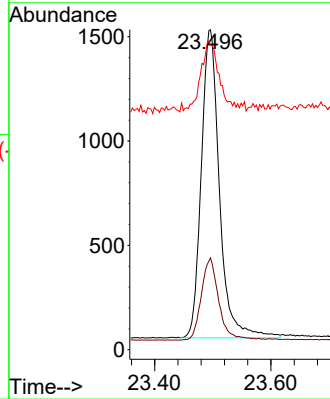
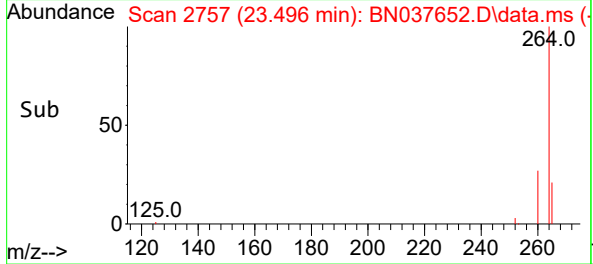
Instrument :
BNA_N
ClientSampleId :
PB169421BS



Tgt Ion:264 Resp: 3204
Ion Ratio Lower Upper
264 100
260 28.7 21.6 32.4
265 95.1 48.2 72.4

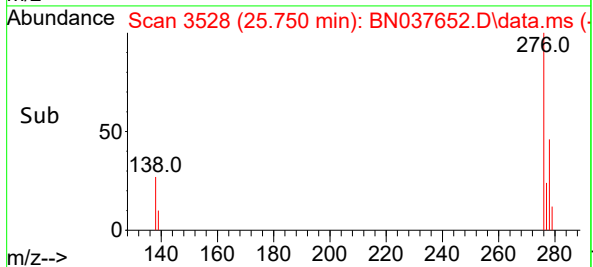
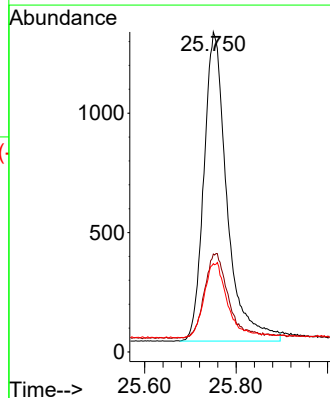
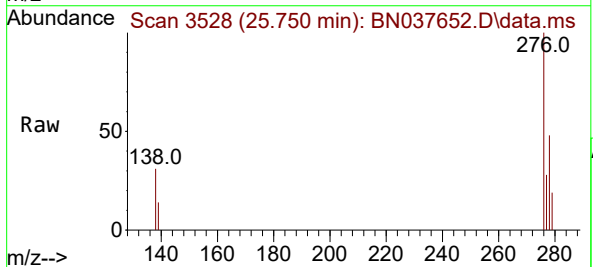
Manual Integrations
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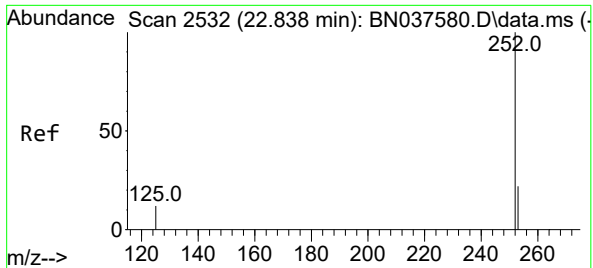
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.337 ng
RT: 25.750 min Scan# 3528
Delta R.T. -0.017 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:276 Resp: 4546
Ion Ratio Lower Upper
276 100
138 28.0 23.3 34.9
277 24.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.351 ng

RT: 22.824 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

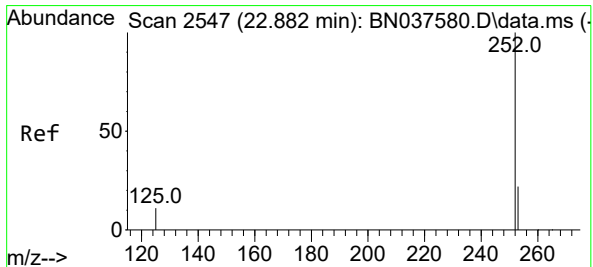
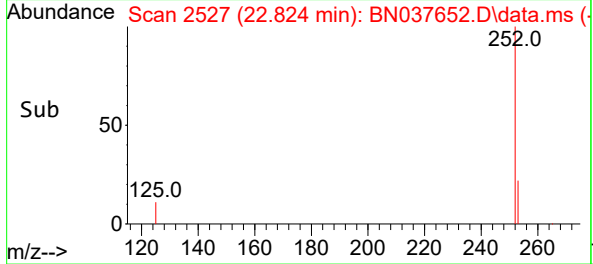
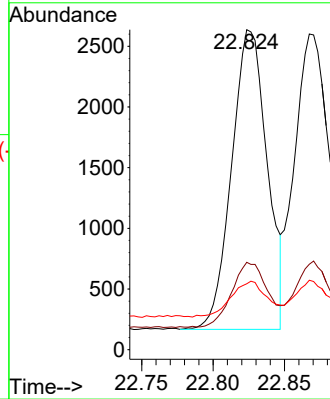
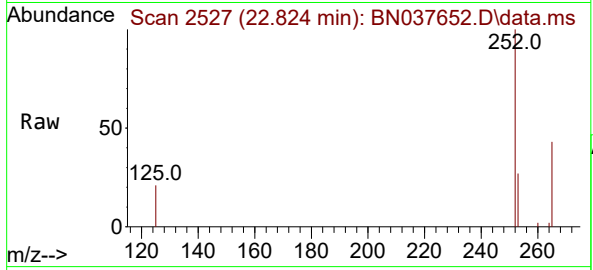
Tgt Ion:	252	Resp:	426
Ion	Ratio	Lower	Upper
252	100		
253	27.3	20.0	30.0
125	20.6	13.8	20.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#38

Benzo(k)fluoranthene

Concen: 0.322 ng

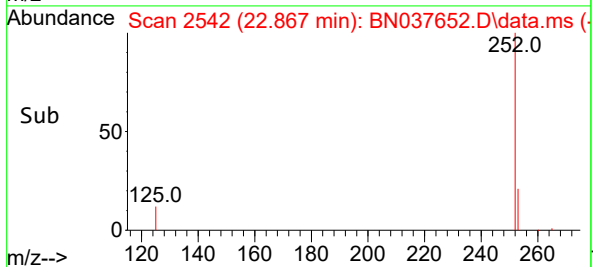
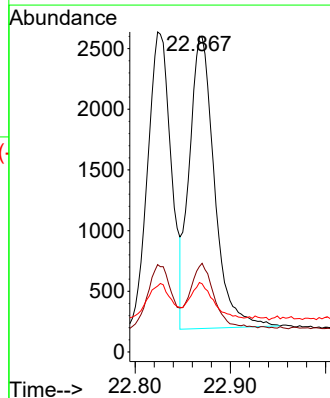
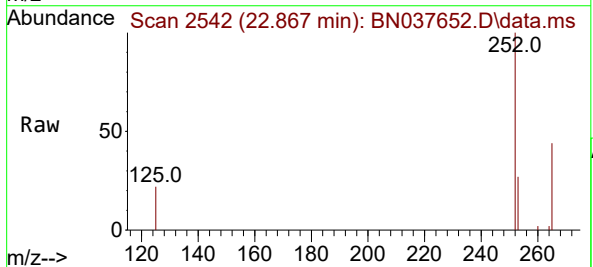
RT: 22.867 min Scan# 2542

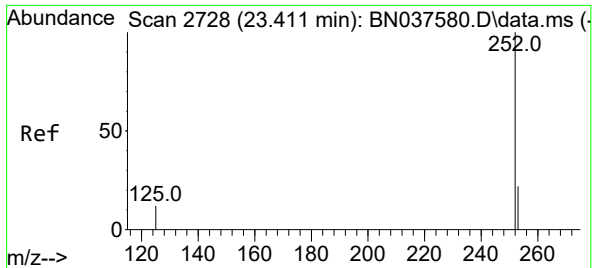
Delta R.T. -0.014 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Tgt Ion:	252	Resp:	4412
Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.9	29.9
125	22.0	15.0	22.6





#39

Benzo(a)pyrene

Concen: 0.355 ng

RT: 23.397 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037652.D

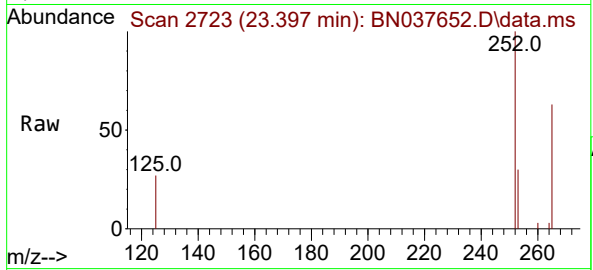
Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS



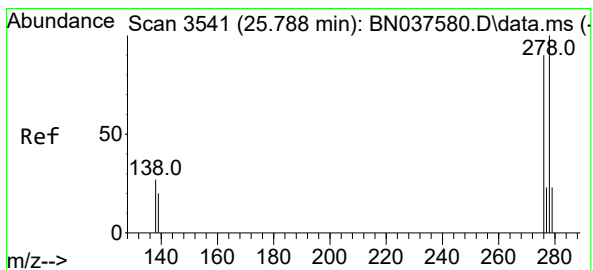
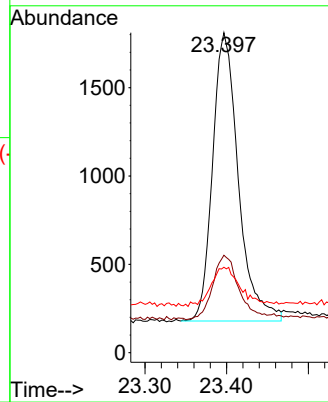
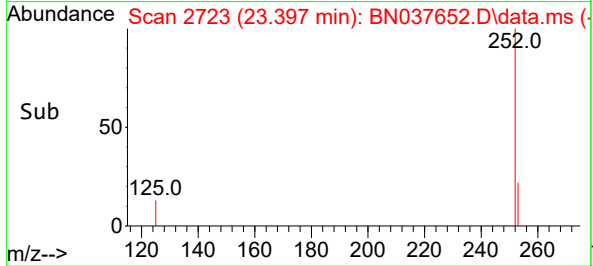
Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.5	21.6	32.4
125	26.7	16.8	25.2

Manual Integrations

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Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#40

Dibenzo(a,h)anthracene

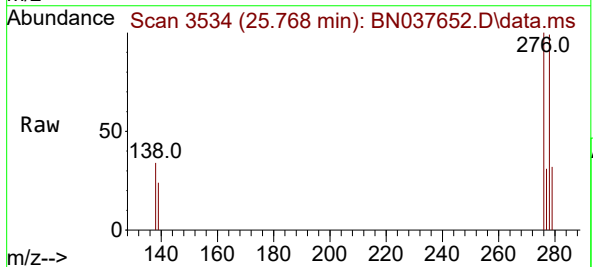
Concen: 0.323 ng

RT: 25.768 min Scan# 3534

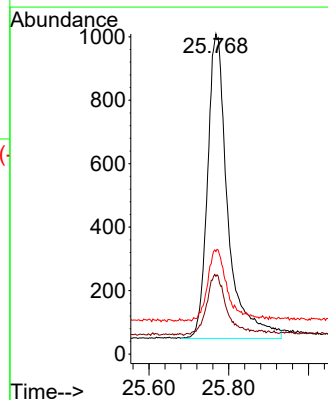
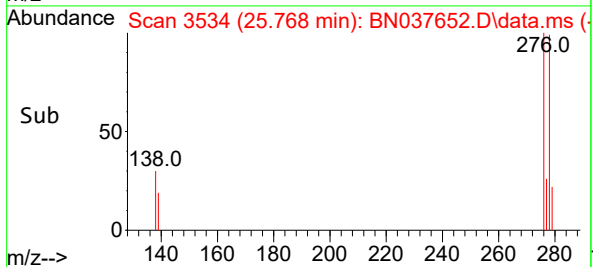
Delta R.T. -0.020 min

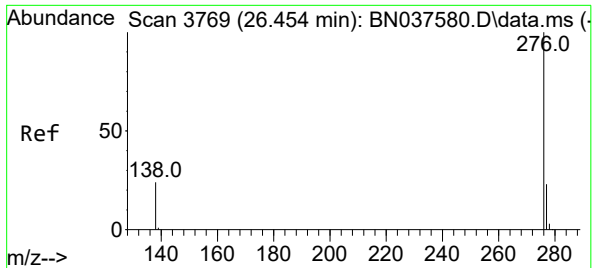
Lab File: BN037652.D

Acq: 28 Aug 2025 11:54



Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.3	18.3	27.5
279	32.0	22.5	33.7





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.431 min Scan# 31

Delta R.T. -0.023 min

Lab File: BN037652.D

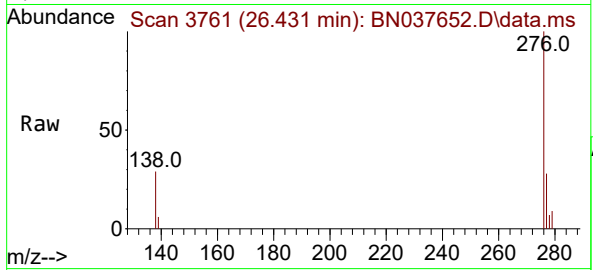
Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS



Tgt Ion:276 Resp: 4128

Ion Ratio Lower Upper

276 100

277 27.8 21.0 31.4

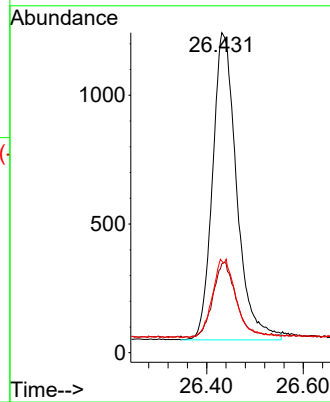
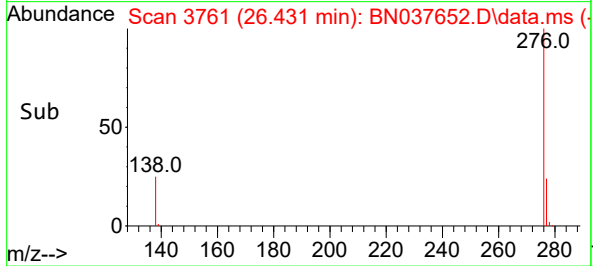
138 28.6 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169421BSD	SDG No.:	Q2937
Lab Sample ID:	PB169421BSD	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
BN037653.D	1	08/27/25 08:45	08/28/25 12:30	PB169421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		80%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2450	7.71				
1146-65-2	Naphthalene-d8	5590	10.487				
15067-26-2	Acenaphthene-d10	2440	14.345				
1517-22-2	Phenanthrene-d10	4480	17.086				
1719-03-5	Chrysene-d12	3450	21.268				
1520-96-3	Perylene-d12	3060	23.496				

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\BN082825\
 Data File : BN037653.D
 Acq On : 28 Aug 2025 12:30
 Operator : RC/JU
 Sample : PB169421BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169421BSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/03/2025
 Supervised By :Jagrut Upadhyay 09/03/2025

Quant Time: Aug 28 13:06:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2452	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	5588	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2436	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4479	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3451	0.400	ng	# 0.00
35) Perylene-d12	23.496	264	3064	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1957	0.352	ng	0.00
5) Phenol-d6	6.872	99	2140	0.320	ng	0.00
8) Nitrobenzene-d5	8.854	82	1587	0.403	ng	0.00
11) 2-Methylnaphthalene-d10	12.080	152	2646m	0.348	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	362	0.340	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	5937	0.421	ng	0.00
27) Fluoranthene-d10	19.113	212	3776	0.320	ng	0.00
31) Terphenyl-d14	19.717	244	2753	0.388	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	752	0.321	ng	# 80
3) n-Nitrosodimethylamine	3.535	42	1176	0.392	ng	93
6) bis(2-Chloroethyl)ether	7.132	93	2162	0.359	ng	96
9) Naphthalene	10.541	128	5375	0.361	ng	100
10) Hexachlorobutadiene	10.840	225	1449	0.399	ng	# 99
12) 2-Methylnaphthalene	12.156	142	2891	0.310	ng	99
16) Acenaphthylene	14.056	152	4397	0.403	ng	99
17) Acenaphthene	14.398	154	2646	0.356	ng	99
18) Fluorene	15.393	166	3408	0.351	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	199	0.425	ng	91
21) 4-Bromophenyl-phenylether	16.280	248	996	0.354	ng	# 91
22) Hexachlorobenzene	16.391	284	1594	0.399	ng	98
23) Atrazine	16.553	200	641	0.403	ng	93
24) Pentachlorophenol	16.739	266	842	0.601	ng	98
25) Phenanthrene	17.124	178	4811	0.353	ng	99
26) Anthracene	17.211	178	4337	0.360	ng	99
28) Fluoranthene	19.141	202	4922	0.315	ng	100
30) Pyrene	19.503	202	4739	0.367	ng	99
32) Benzo(a)anthracene	21.250	228	4262	0.370	ng	98
33) Chrysene	21.304	228	4808	0.374	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	1764	0.371	ng	98
36) Indeno(1,2,3-cd)pyrene	25.750	276	4912	0.380	ng	98
37) Benzo(b)fluoranthene	22.823	252	4652	0.401	ng	# 94
38) Benzo(k)fluoranthene	22.867	252	4628	0.353	ng	96
39) Benzo(a)pyrene	23.399	252	3850	0.400	ng	# 93
40) Dibenzo(a,h)anthracene	25.770	278	3559	0.355	ng	94
41) Benzo(g,h,i)perylene	26.434	276	4360	0.413	ng	98

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

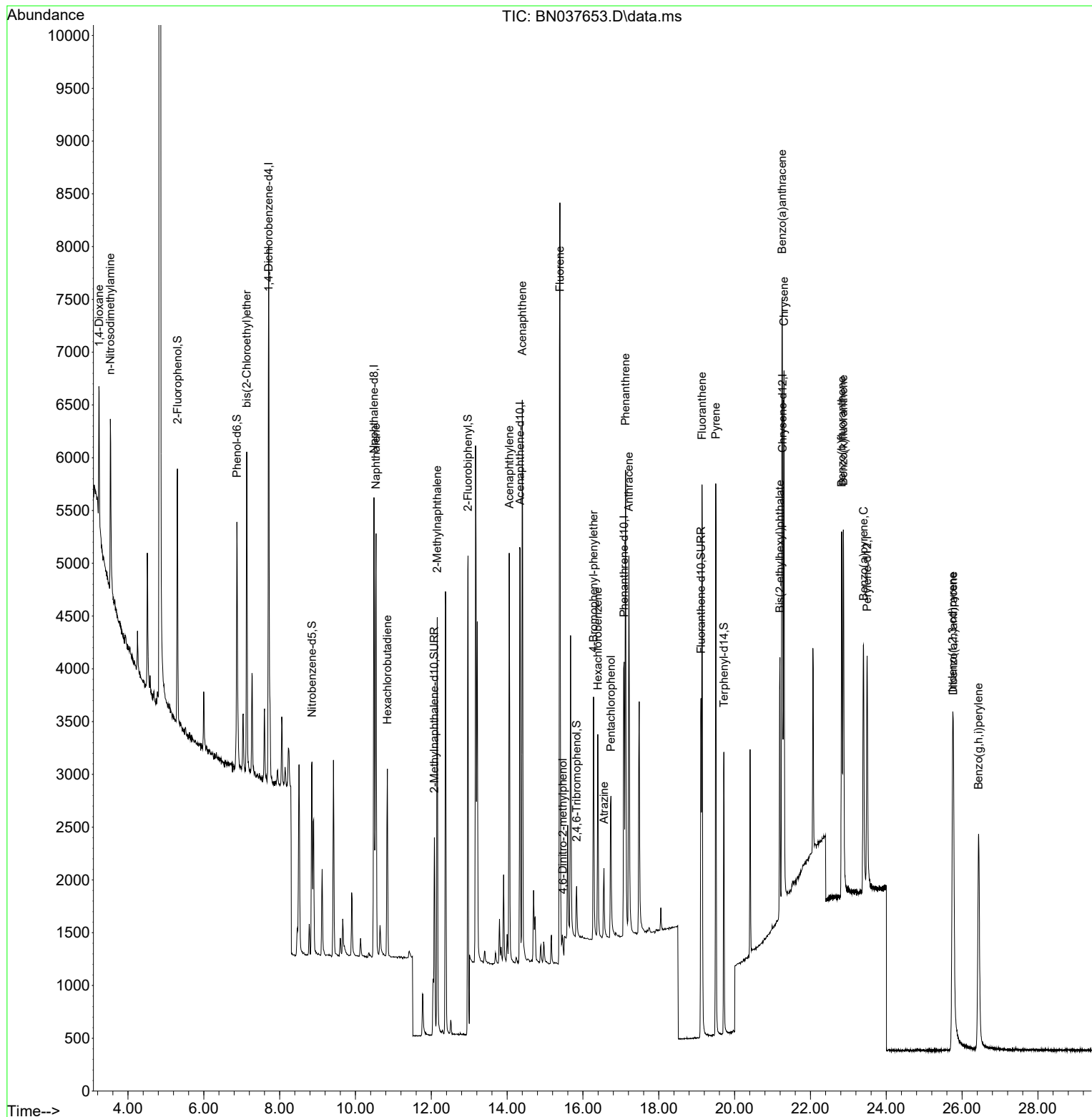
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037653.D
 Acq On : 28 Aug 2025 12:30
 Operator : RC/JU
 Sample : PB169421BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

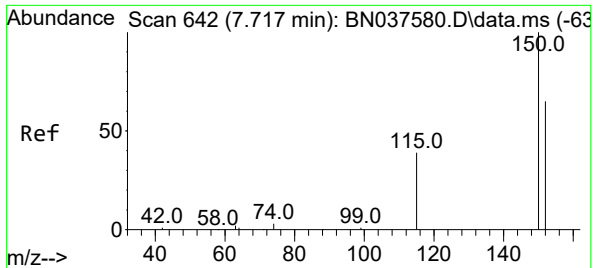
Instrument :
 BNA_N
 ClientSampleId :
 PB169421BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/03/2025
 Supervised By :Jagrut Upadhyay 09/03/2025

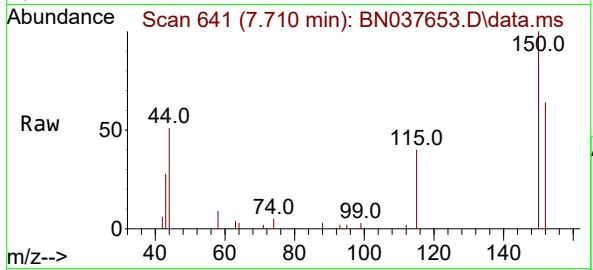
Quant Time: Aug 28 13:06:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

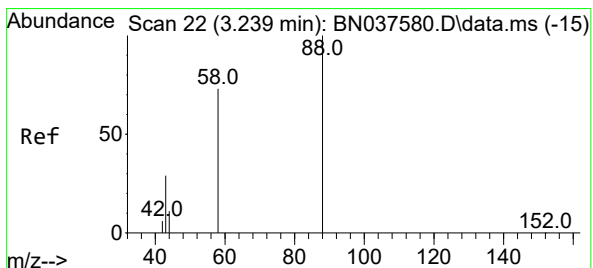
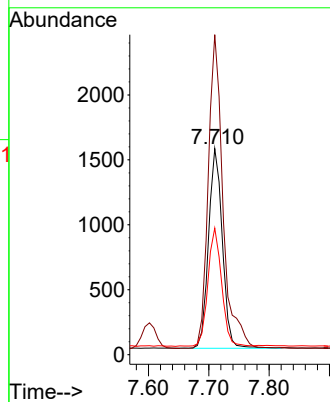
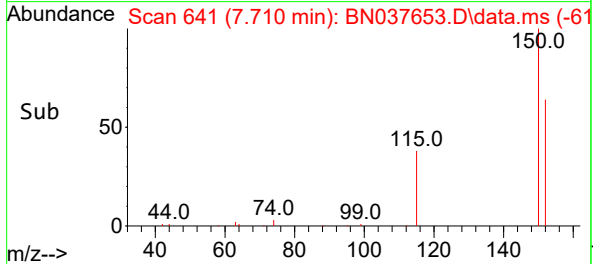
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



Tgt Ion: 152 Resp: 245
Ion Ratio Lower Upper
152 100
150 155.3 122.2 183.4
115 61.4 49.8 74.6

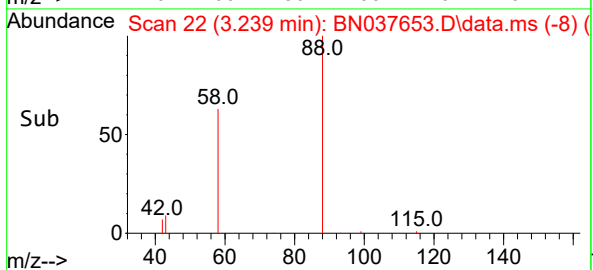
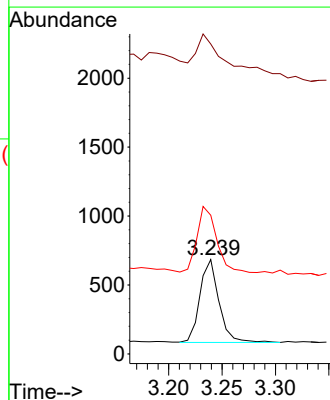
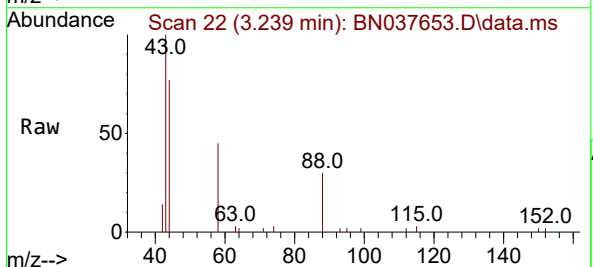
Manual Integrations
APPROVED

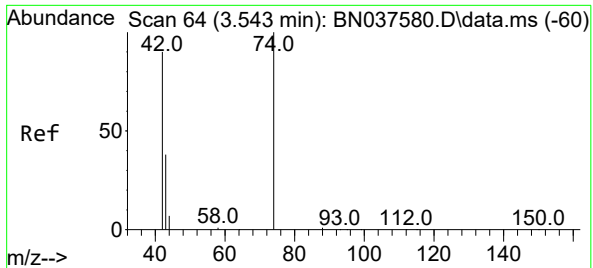
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#2
1,4-Dioxane
Concen: 0.321 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

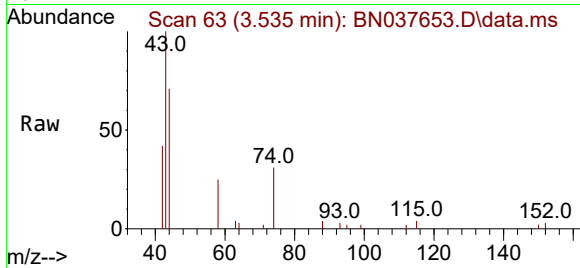
Tgt Ion: 88 Resp: 752
Ion Ratio Lower Upper
88 100
43 62.5 25.8 38.6#
58 81.1 61.2 91.8





#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

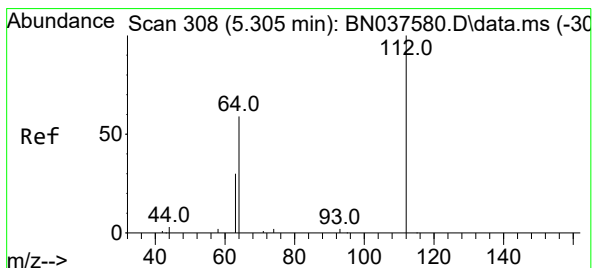
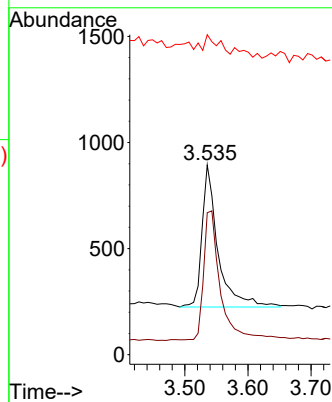
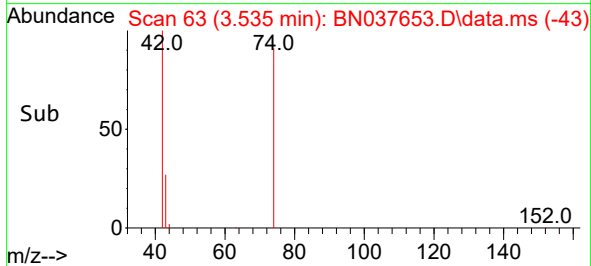
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



Tgt Ion: 42 Resp: 1170
Ion Ratio Lower Upper
42 100
74 94.4 82.0 123.0
44 10.1 7.9 11.9

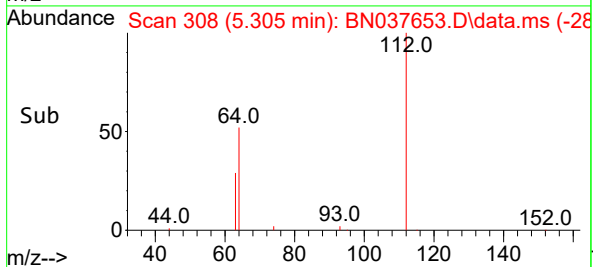
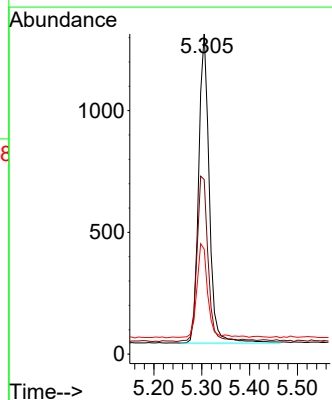
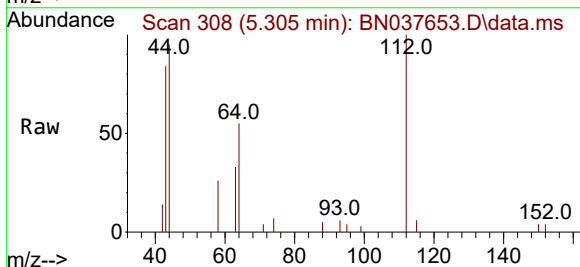
Manual Integrations
APPROVED

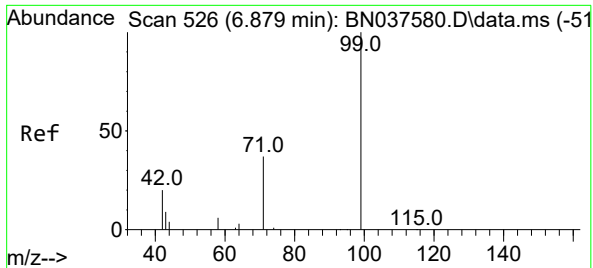
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

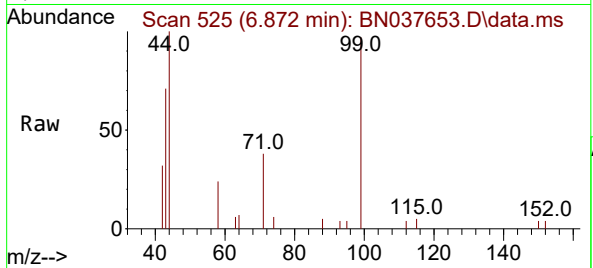
Tgt Ion:112 Resp: 1957
Ion Ratio Lower Upper
112 100
64 55.3 44.9 67.3
63 31.5 23.4 35.2





#5
Phenol-d6
Concen: 0.320 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

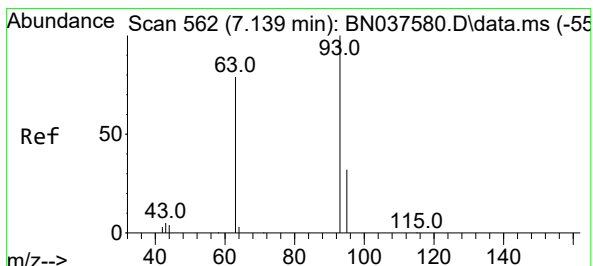
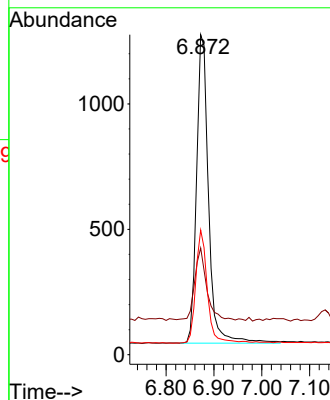
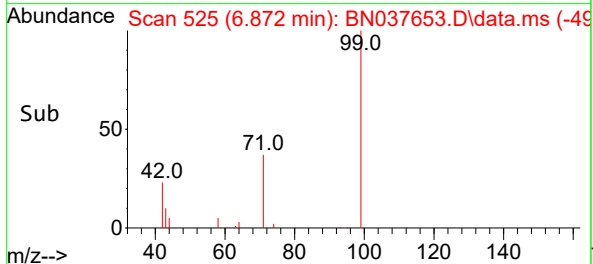
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



Tgt Ion: 99 Resp: 2140
Ion Ratio Lower Upper
99 100
42 22.9 18.5 27.7
71 35.7 28.6 42.8

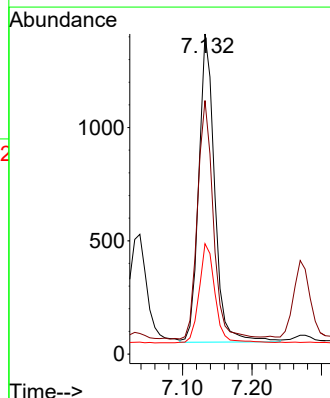
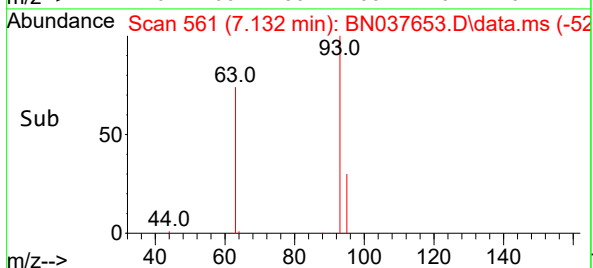
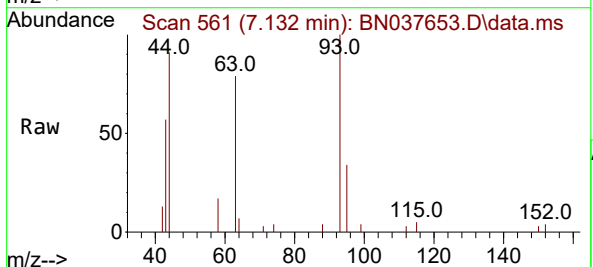
Manual Integrations
APPROVED

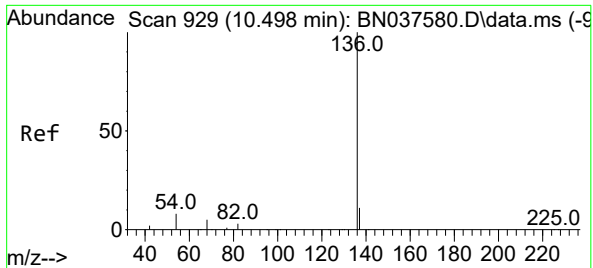
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

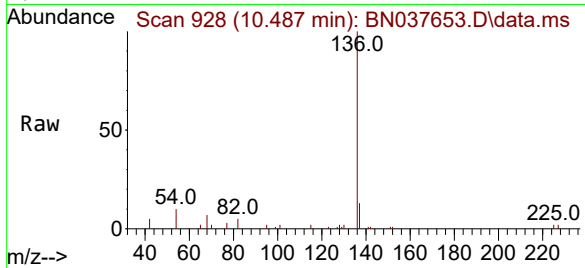
Tgt Ion: 93 Resp: 2162
Ion Ratio Lower Upper
93 100
63 77.3 58.0 87.0
95 31.9 24.9 37.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

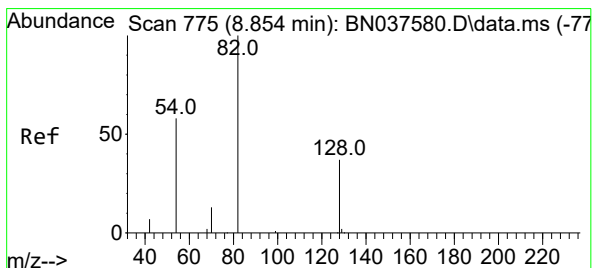
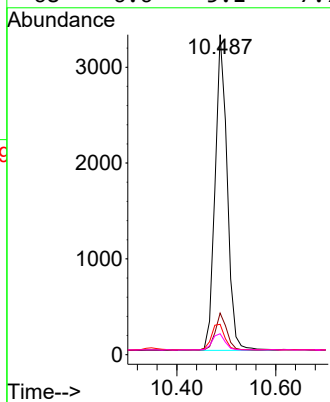
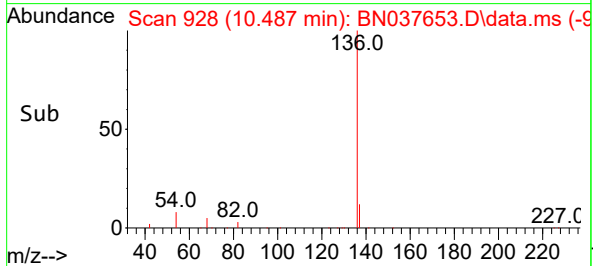
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



Tgt Ion:136 Resp: 5588
Ion Ratio Lower Upper
136 100
137 13.0 9.5 14.3
54 9.5 7.3 10.9
68 6.6 5.1 7.7

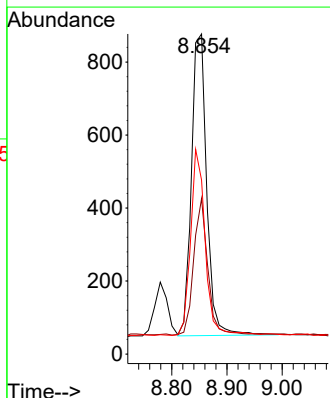
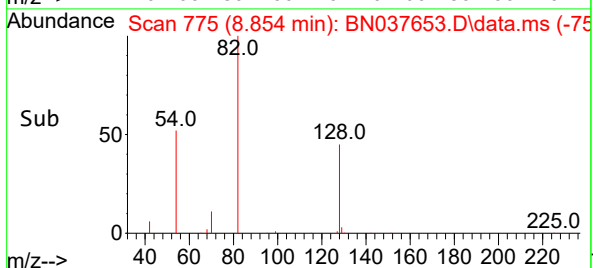
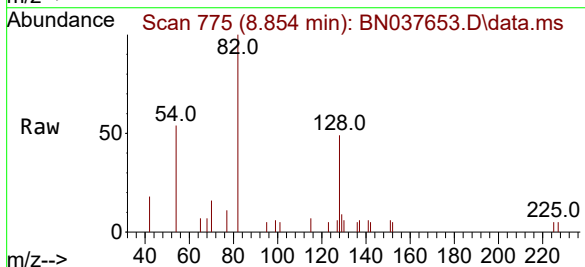
Manual Integrations
APPROVED

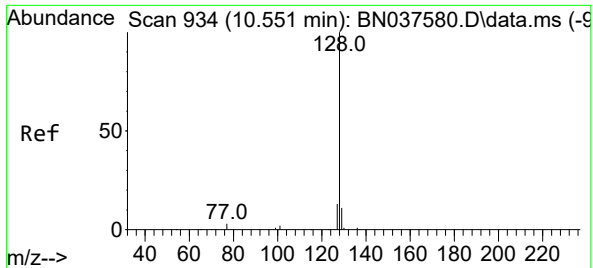
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#8
Nitrobenzene-d5
Concen: 0.403 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion: 82 Resp: 1587
Ion Ratio Lower Upper
82 100
128 48.6 32.6 48.8
54 54.4 48.9 73.3





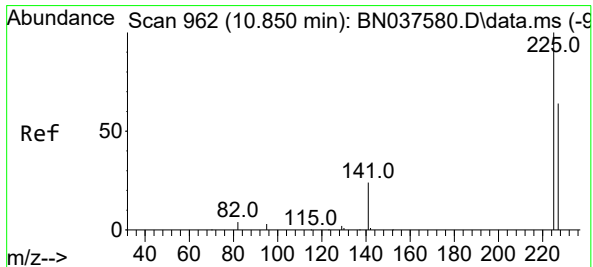
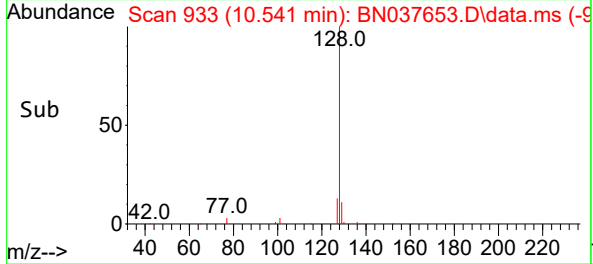
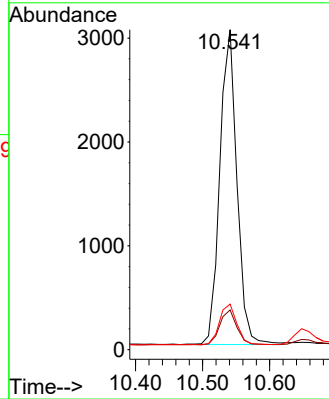
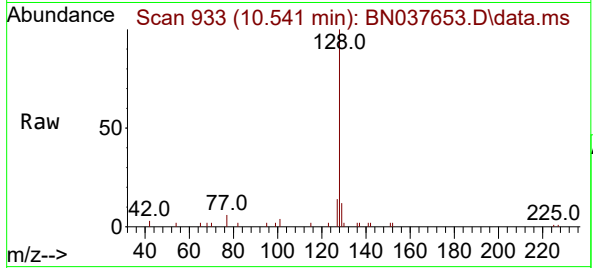
#9
Naphthalene
Concen: 0.361 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Instrument :
BNA_N
ClientSampleId :
PB169421BSD

Tgt Ion:128 Resp: 537
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.2 11.5 17.3

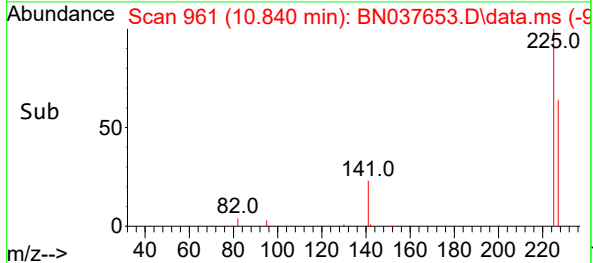
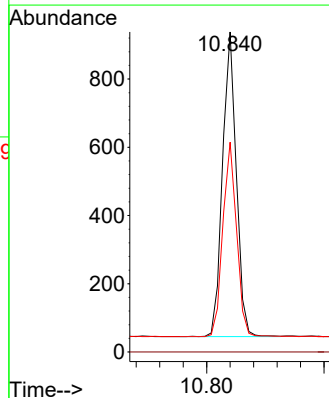
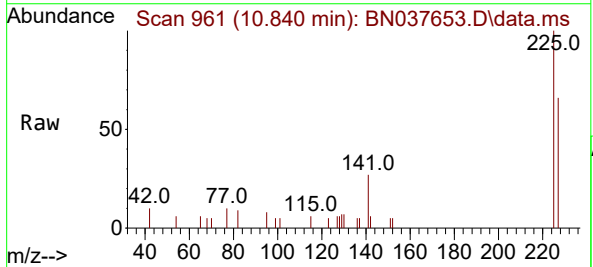
Manual Integrations
APPROVED

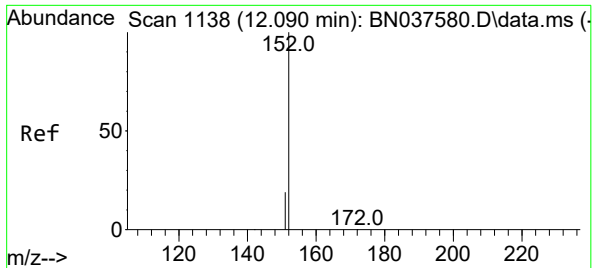
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

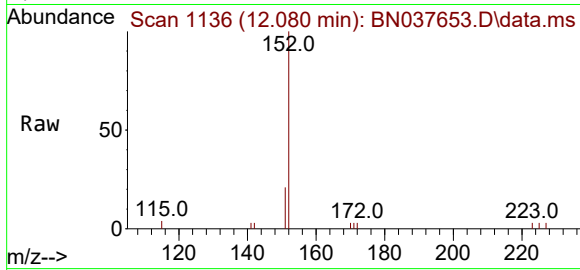
Tgt Ion:225 Resp: 1449
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 50.8 76.2





#11
2-Methylnaphthalene-d10
Concen: 0.348 ng m
RT: 12.080 min Scan# 1136
Delta R.T. -0.010 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

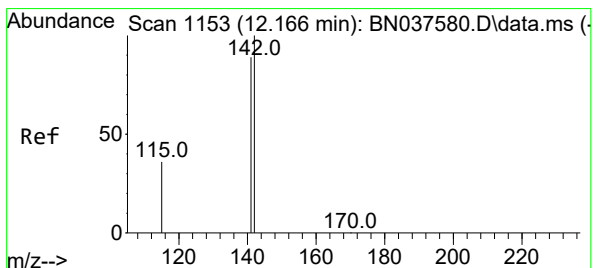
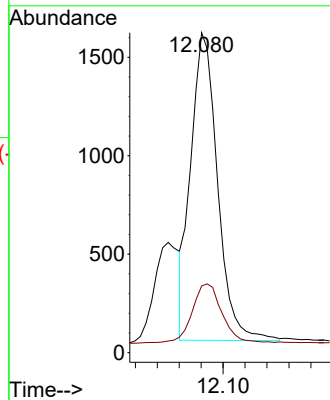
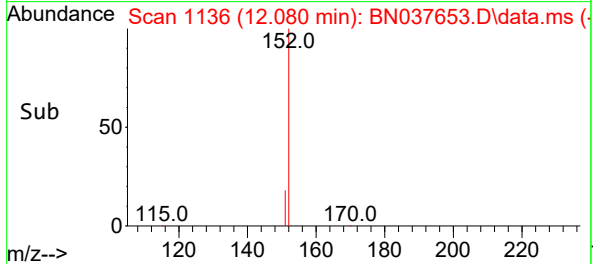
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



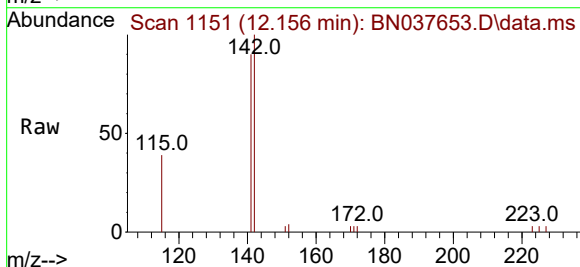
Tgt Ion:152 Resp: 2640
Ion Ratio Lower Upper
152 100
151 22.1 17.3 25.9

Manual Integrations
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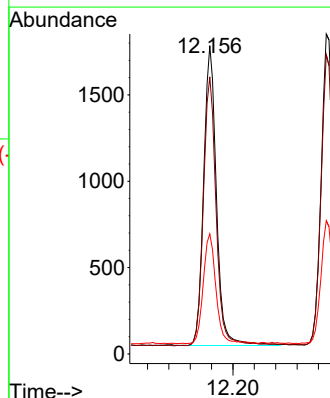
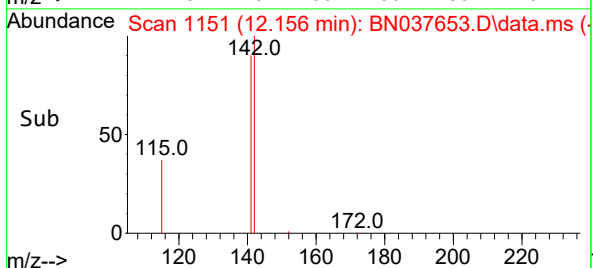
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025

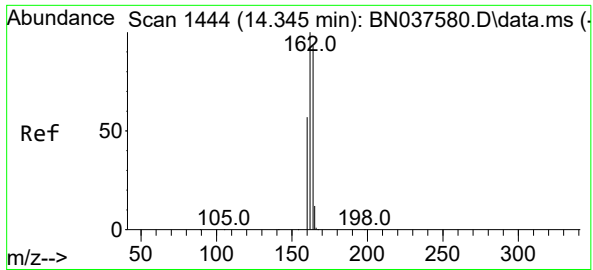


#12
2-Methylnaphthalene
Concen: 0.310 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30



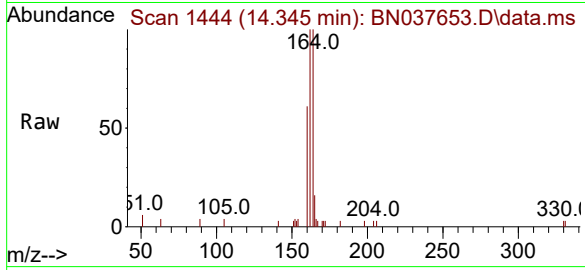
Tgt Ion:142 Resp: 2891
Ion Ratio Lower Upper
142 100
141 89.9 71.4 107.0
115 39.0 30.2 45.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

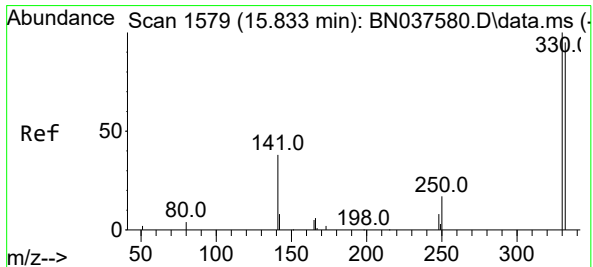
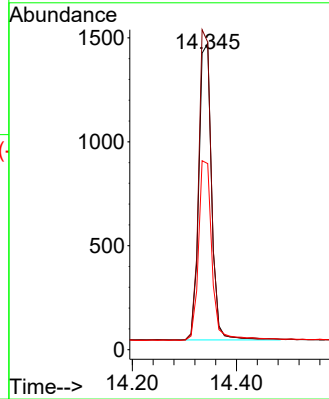
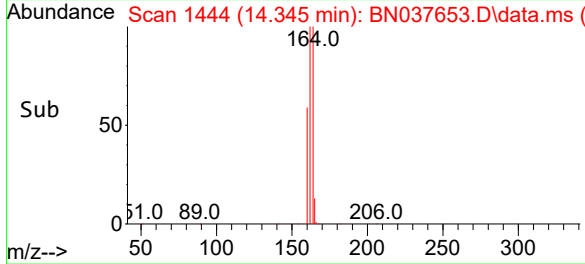
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



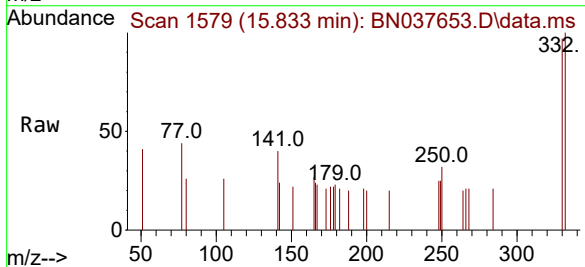
Tgt Ion:164 Resp: 2430
Ion Ratio Lower Upper
164 100
162 100.3 85.5 128.3
160 60.7 49.5 74.3

Manual Integrations
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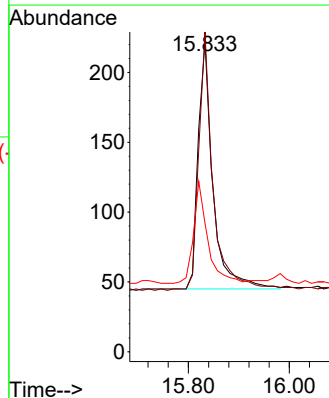
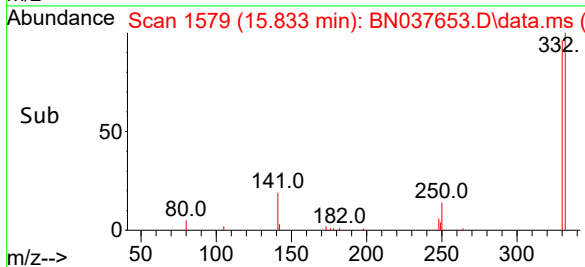
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025

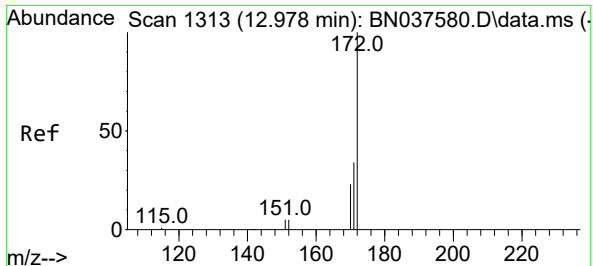


#14
2,4,6-Tribromophenol
Concen: 0.340 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30



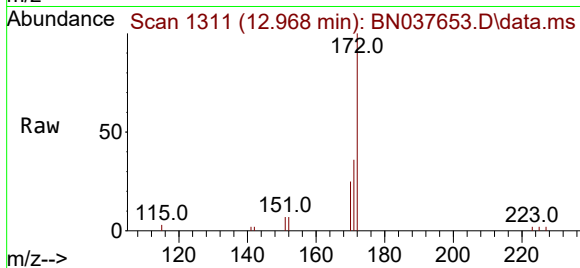
Tgt Ion:330 Resp: 362
Ion Ratio Lower Upper
330 100
332 102.5 77.4 116.0
141 39.0 30.9 46.3





#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.010 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

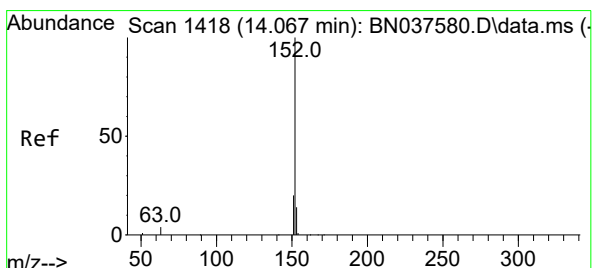
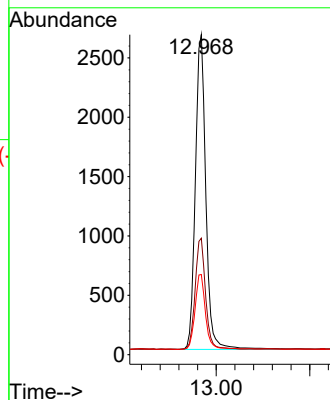
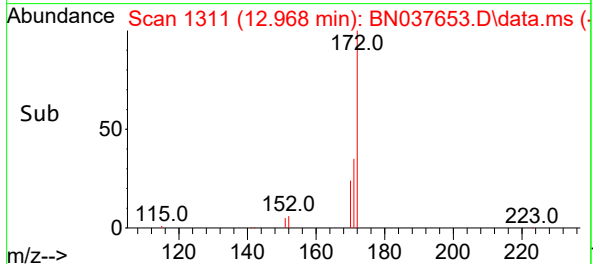
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



Tgt Ion:172 Resp: 593
Ion Ratio Lower Upper
172 100
171 36.4 28.2 42.4
170 25.0 19.2 28.8

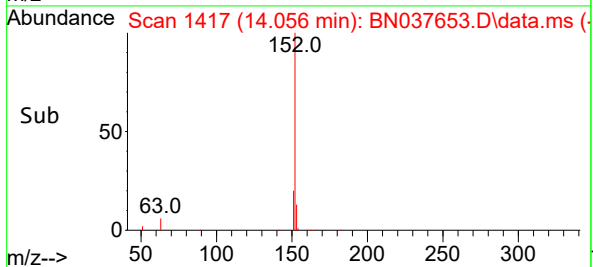
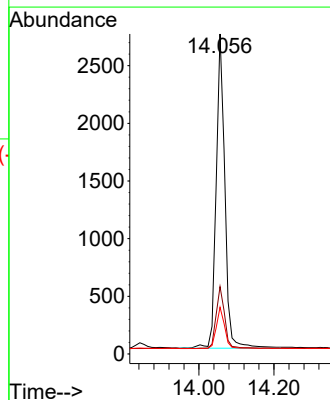
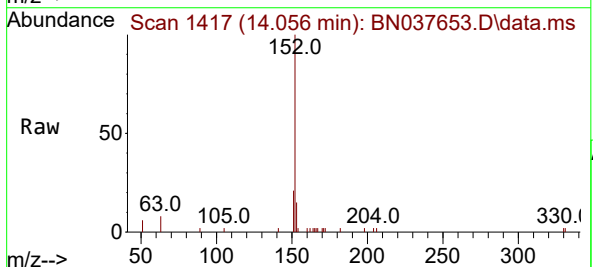
Manual Integrations
APPROVED

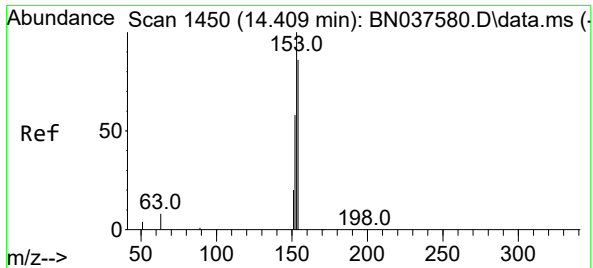
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#16
Acenaphthylene
Concen: 0.403 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:152 Resp: 4397
Ion Ratio Lower Upper
152 100
151 19.4 16.1 24.1
153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 0.356 ng

RT: 14.398 min Scan# 1449

Delta R.T. -0.011 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD

Tgt Ion:154 Resp: 2640

Ion Ratio Lower Upper

154 100

153 114.5 90.6 135.8

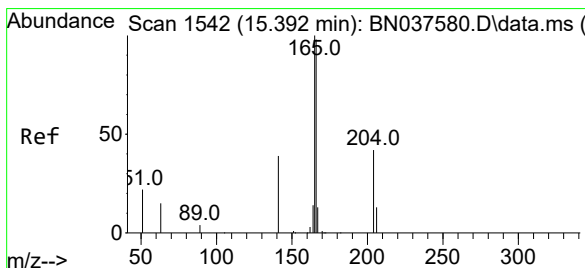
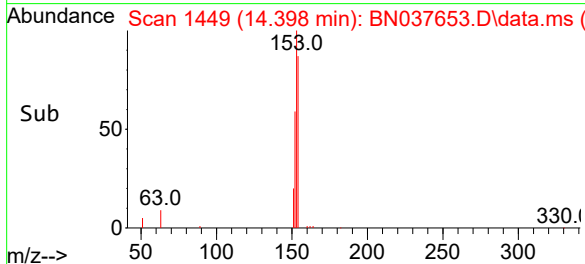
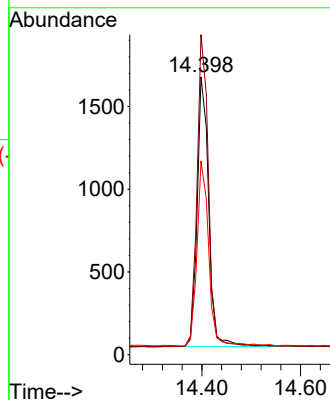
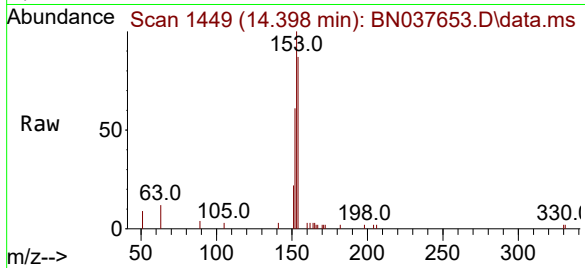
152 69.5 54.9 82.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#18

Fluorene

Concen: 0.351 ng

RT: 15.393 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

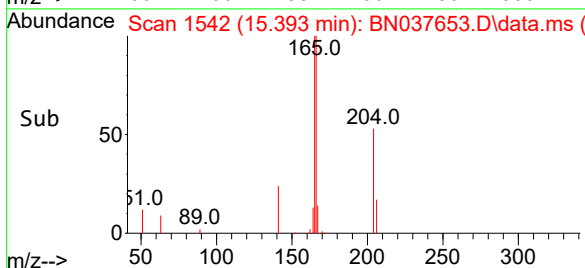
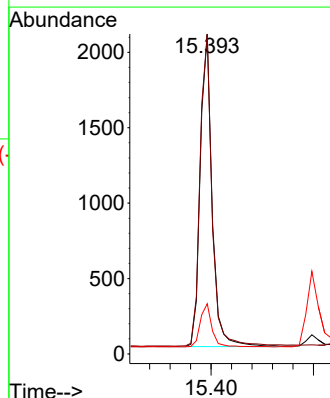
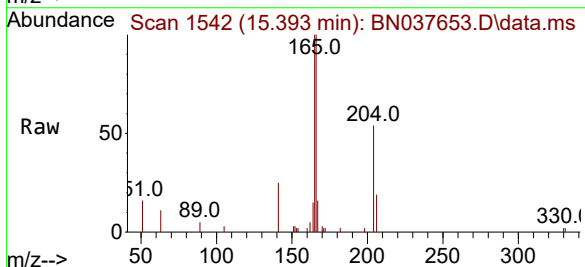
Tgt Ion:166 Resp: 3408

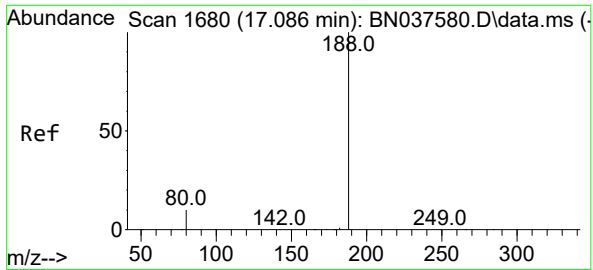
Ion Ratio Lower Upper

166 100

165 101.3 78.9 118.3

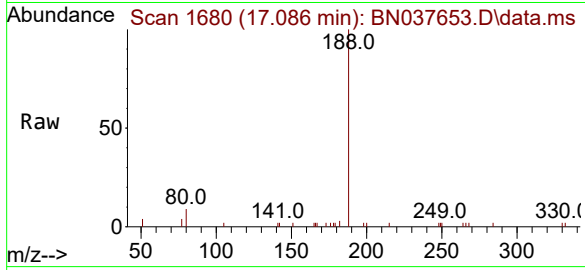
167 13.7 10.7 16.1





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

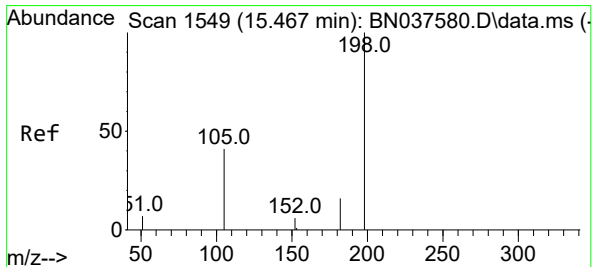
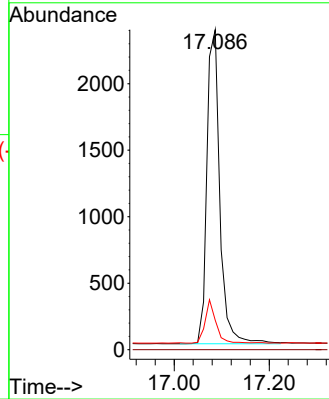
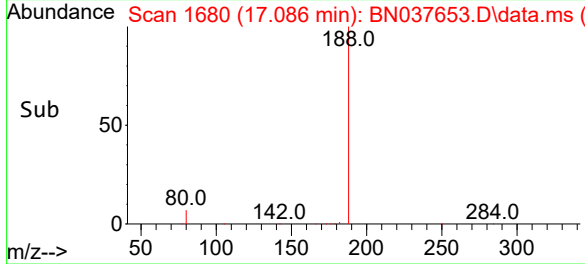
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



Tgt Ion:188 Resp: 4479
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 9.1 13.7

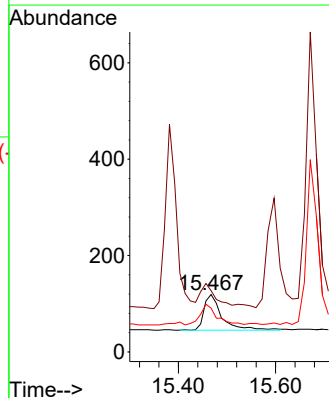
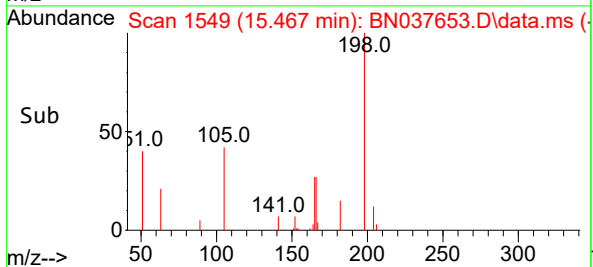
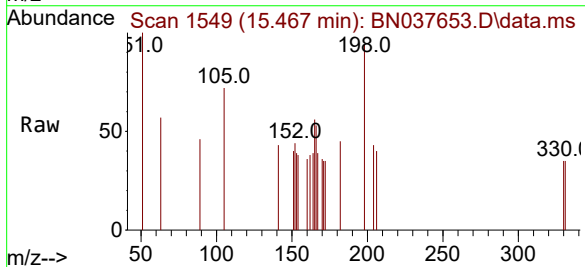
Manual Integrations
APPROVED

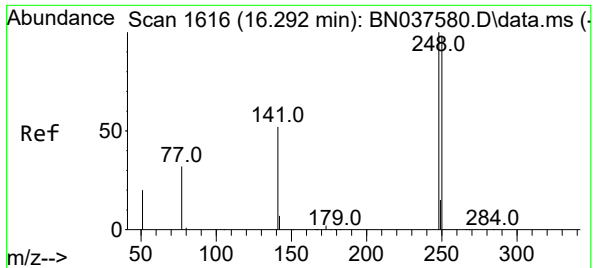
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.425 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

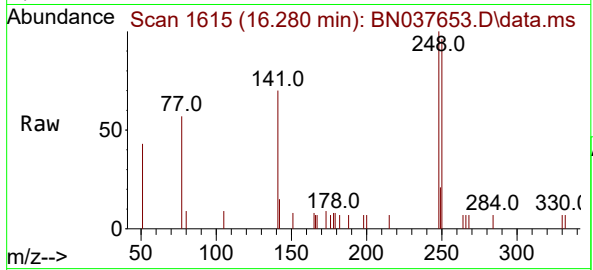
Tgt Ion:198 Resp: 199
Ion Ratio Lower Upper
198 100
51 106.7 81.0 121.6
105 76.5 52.5 78.7





#21
4-Bromophenyl-phenylether
Concen: 0.354 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

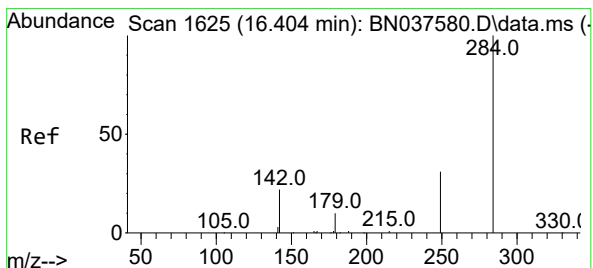
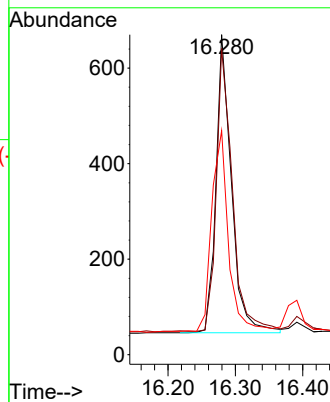
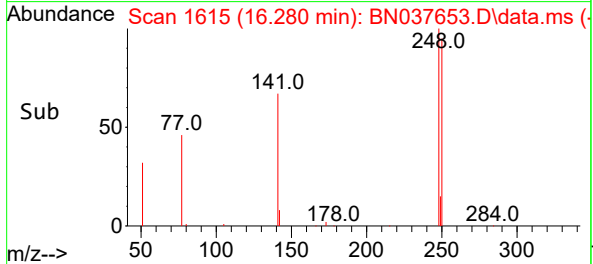
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



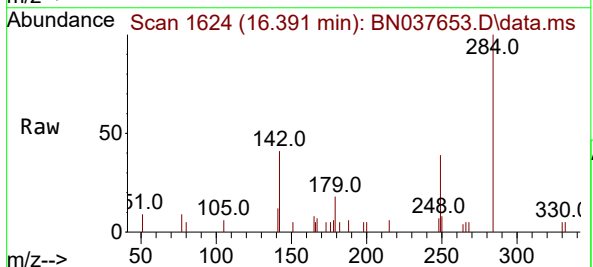
Tgt Ion:248 Resp: 990
Ion Ratio Lower Upper
248 100
250 95.7 78.6 118.0
141 70.0 43.7 65.5

Manual Integrations
APPROVED

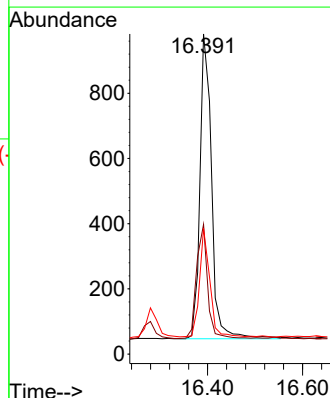
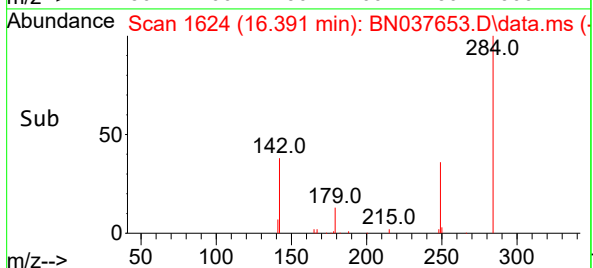
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025

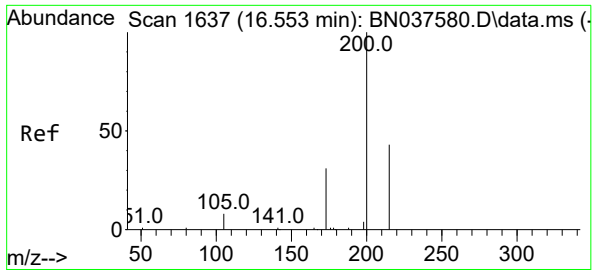


#22
Hexachlorobenzene
Concen: 0.399 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30



Tgt Ion:284 Resp: 1594
Ion Ratio Lower Upper
284 100
142 35.4 29.8 44.6
249 31.6 26.0 39.0





#23

Atrazine

Concen: 0.403 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD

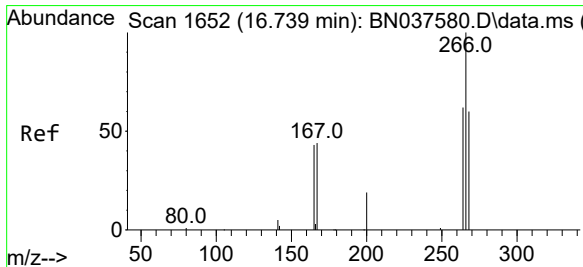
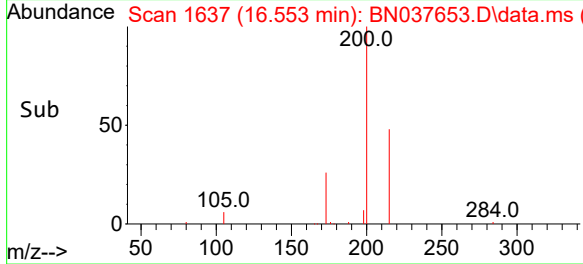
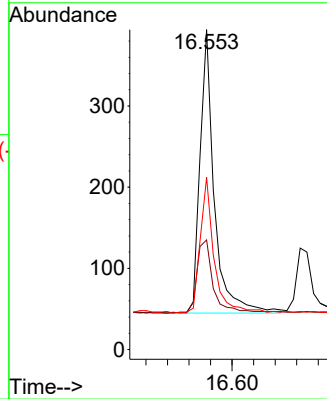
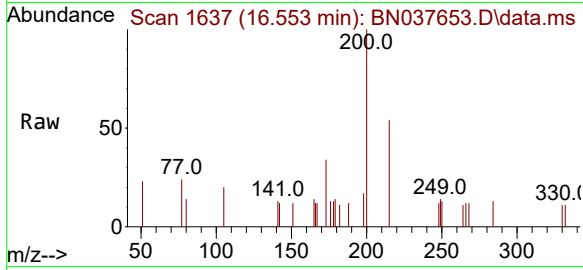
Tgt Ion:	200	Resp:	64
Ion Ratio	Lower	Upper	
200	100		
173	34.3	31.0	46.4
215	53.8	39.4	59.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#24

Pentachlorophenol

Concen: 0.601 ng

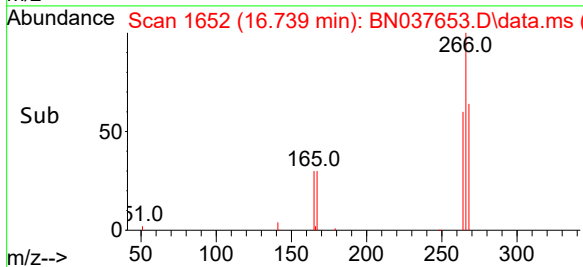
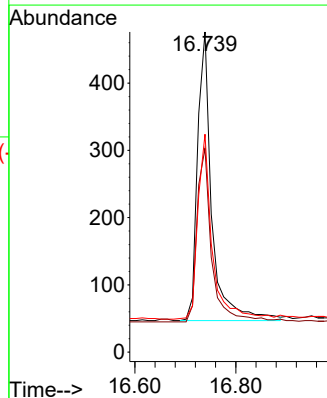
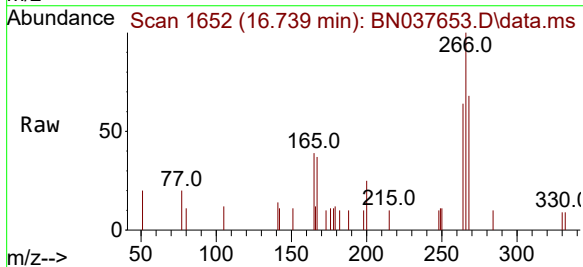
RT: 16.739 min Scan# 1652

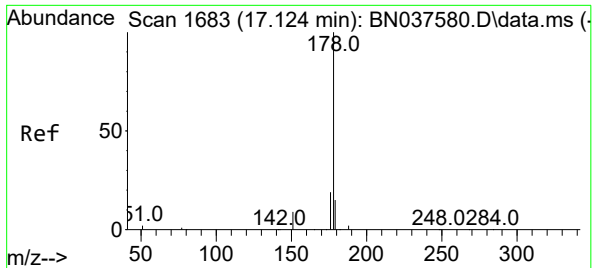
Delta R.T. -0.000 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Tgt Ion:	266	Resp:	842
Ion Ratio	Lower	Upper	
266	100		
264	61.5	49.6	74.4
268	64.8	49.2	73.8





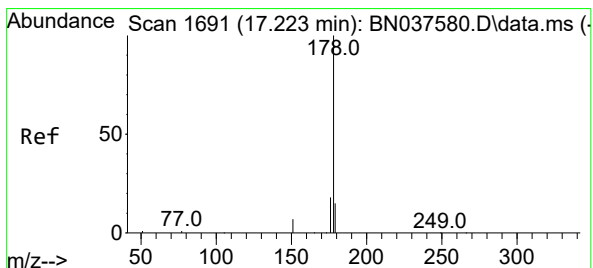
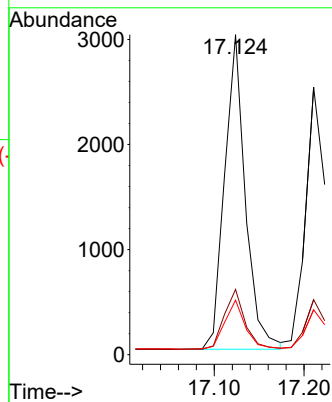
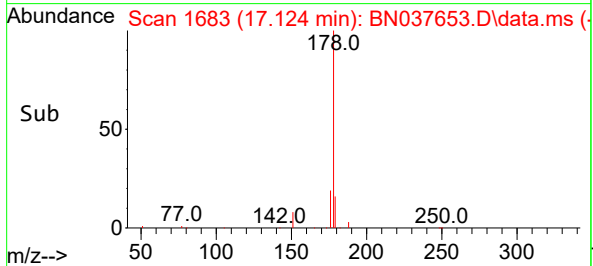
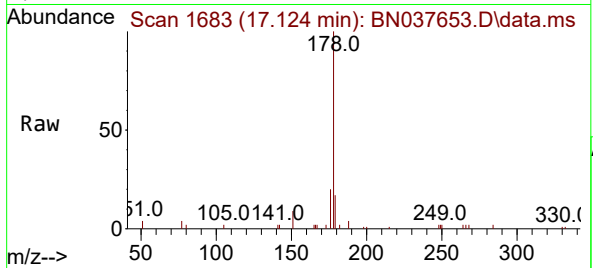
#25
Phenanthrene
Concen: 0.353 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Instrument :
BNA_N
ClientSampleId :
PB169421BSD

Tgt Ion:178 Resp: 481
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.6 12.3 18.5

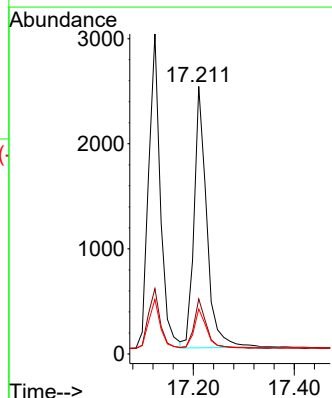
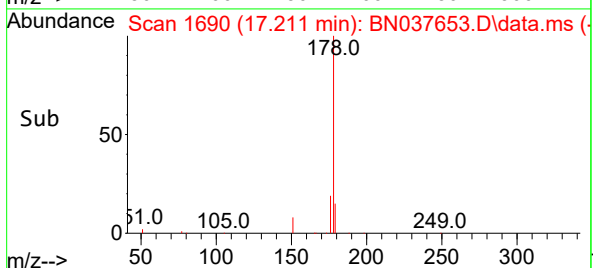
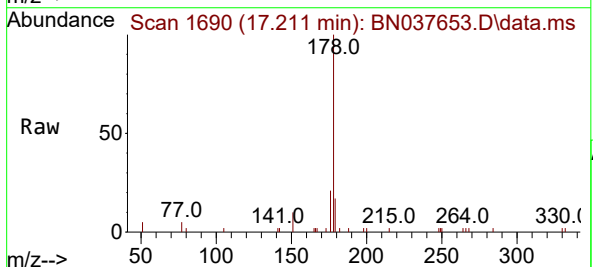
Manual Integrations
APPROVED

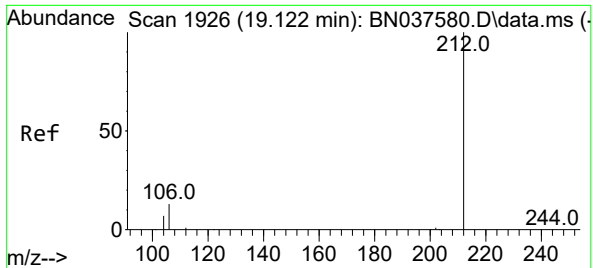
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#26
Anthracene
Concen: 0.360 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

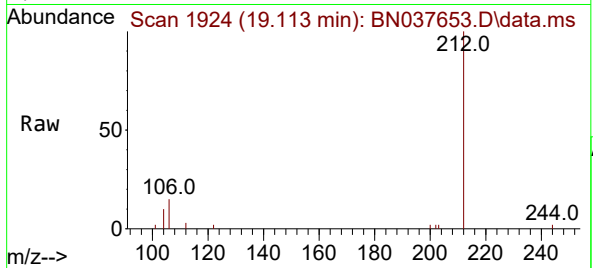
Tgt Ion:178 Resp: 4337
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 14.8 12.3 18.5





#27
Fluoranthene-d10
Concen: 0.320 ng
RT: 19.113 min Scan# 1926
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

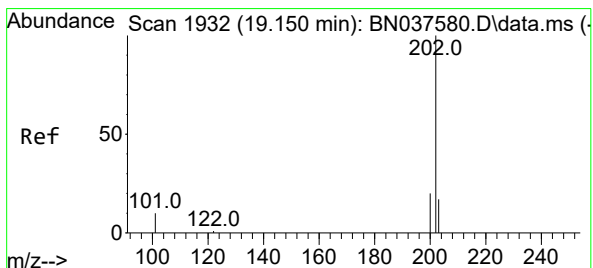
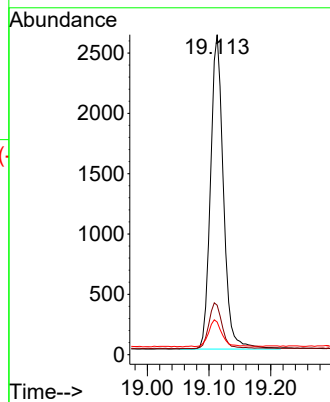
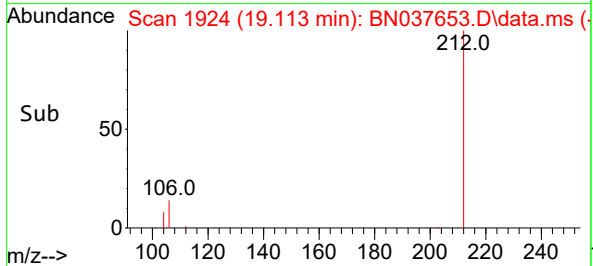
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



Tgt Ion:212 Resp: 3770
Ion Ratio Lower Upper
212 100
106 15.0 11.5 17.3
104 8.7 6.6 9.8

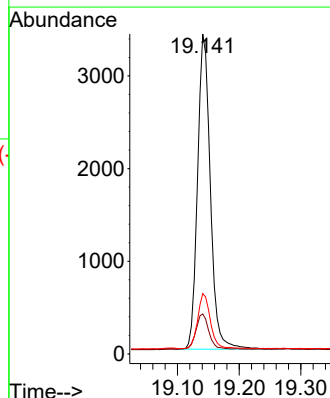
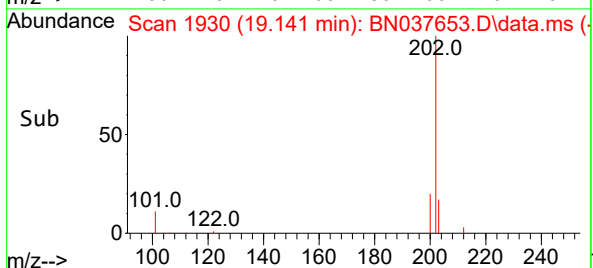
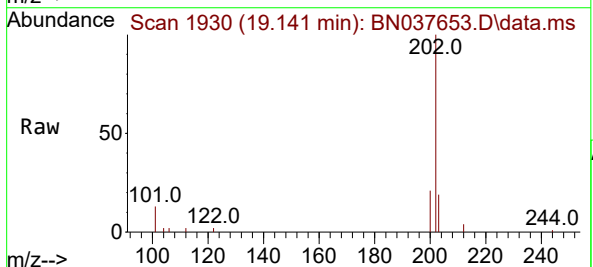
Manual Integrations
APPROVED

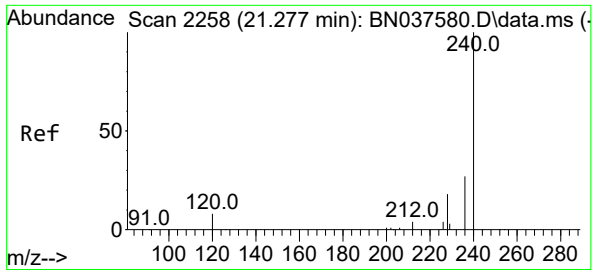
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#28
Fluoranthene
Concen: 0.315 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:202 Resp: 4922
Ion Ratio Lower Upper
202 100
101 11.5 9.0 13.6
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD

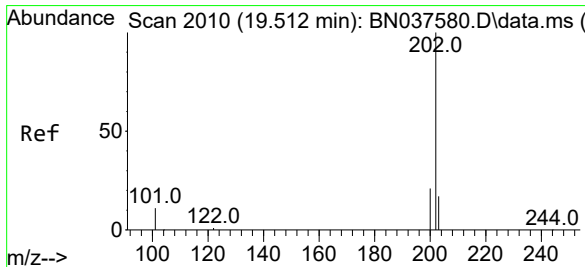
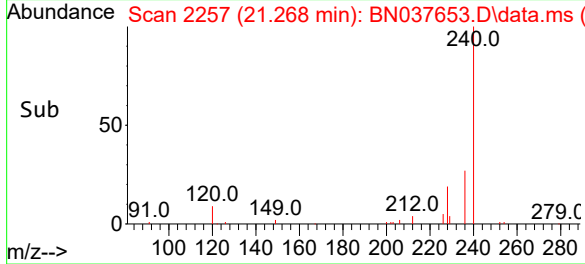
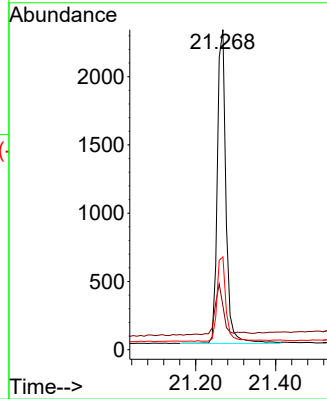
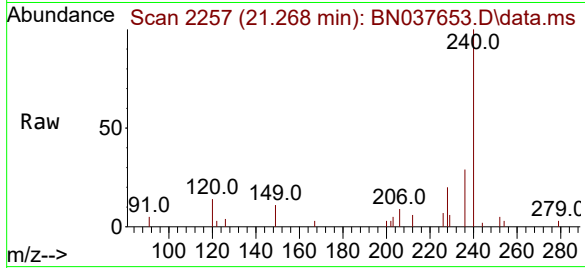
Tgt Ion:	240	Resp:	345
Ion Ratio	Lower	Upper	
240	100		
120	13.7	8.9	13.3
236	29.0	22.6	33.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#30

Pyrene

Concen: 0.367 ng

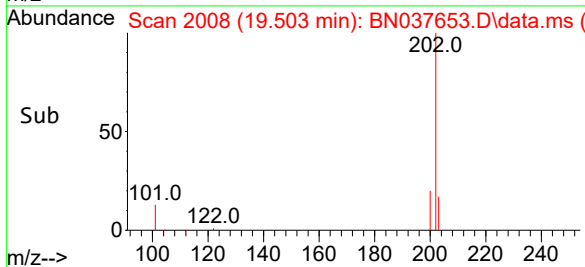
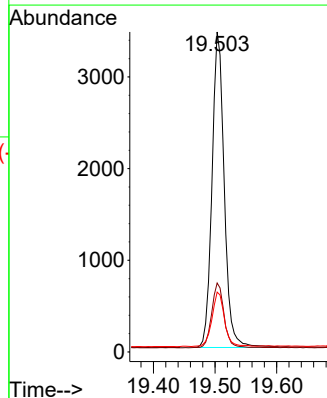
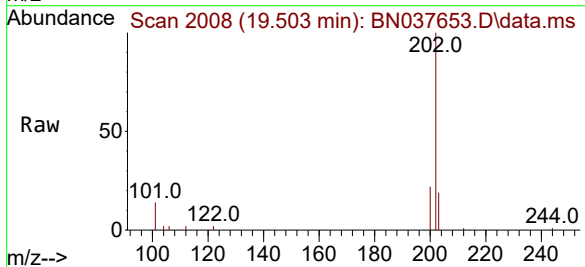
RT: 19.503 min Scan# 2008

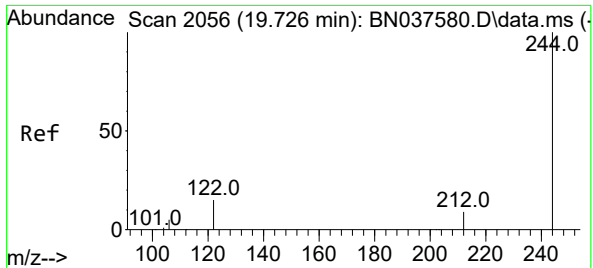
Delta R.T. -0.009 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Tgt Ion:	202	Resp:	4739
Ion Ratio	Lower	Upper	
202	100		
200	20.5	16.6	25.0
203	17.5	14.3	21.5





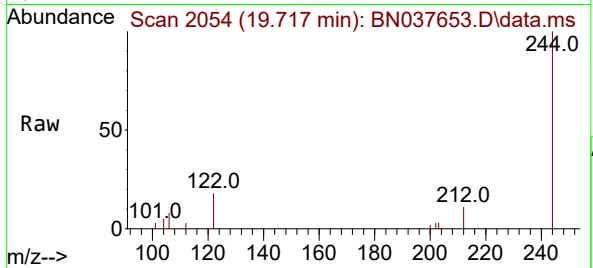
#31
Terphenyl-d14
Concen: 0.388 ng
RT: 19.717 min Scan# 2056
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD

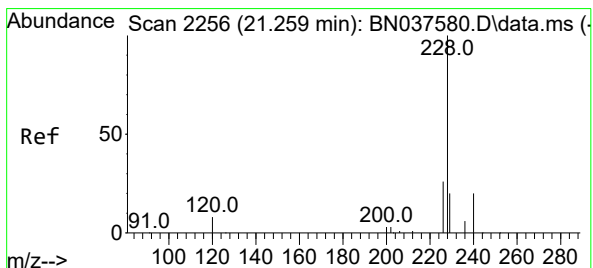
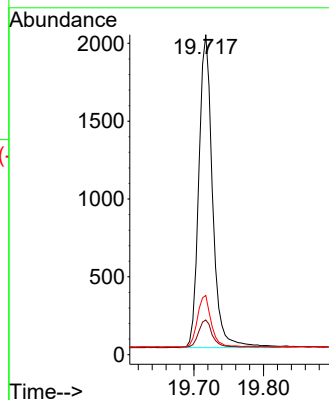


Tgt Ion:244 Resp: 275
Ion Ratio Lower Upper
244 100
212 10.8 8.2 12.2
122 18.5 13.2 19.8

Manual Integrations

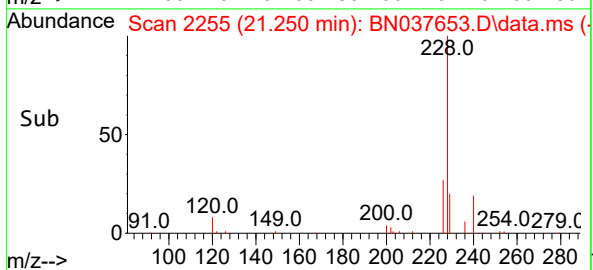
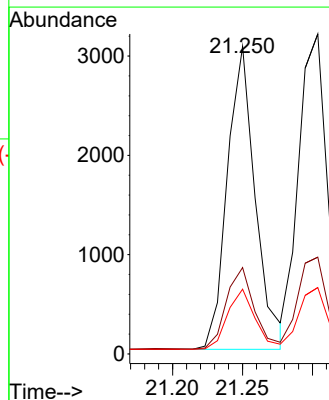
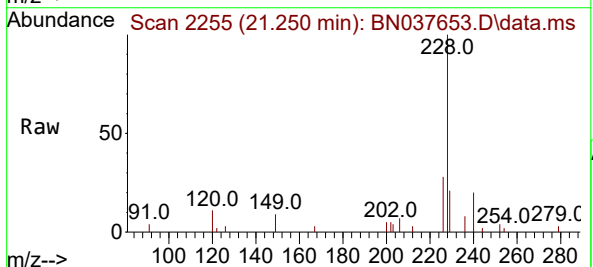
APPROVED

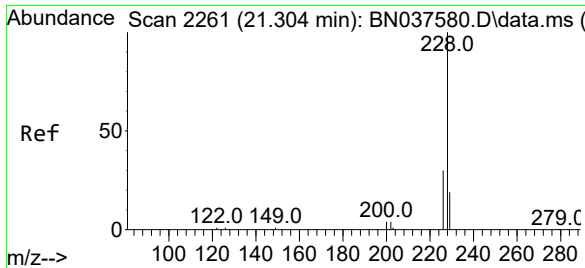
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

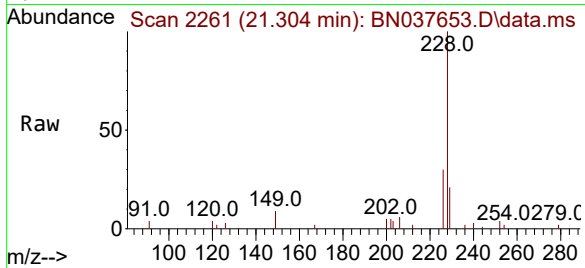
Tgt Ion:228 Resp: 4262
Ion Ratio Lower Upper
228 100
226 28.1 21.5 32.3
229 21.1 16.5 24.7





#33
Chrysene
Concen: 0.374 ng
RT: 21.304 min Scan# 21249
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

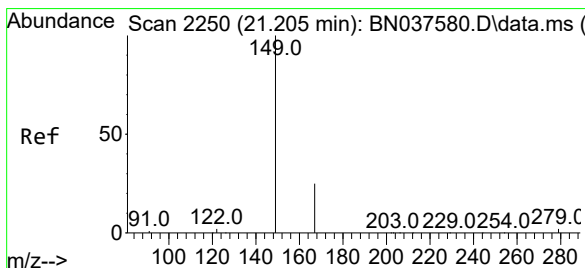
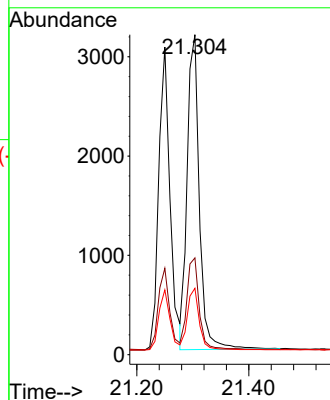
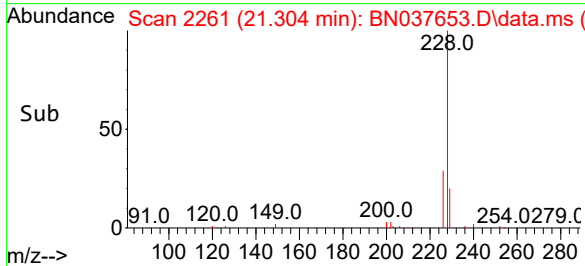
Instrument :
BNA_N
ClientSampleId :
PB169421BSD



Tgt Ion:228 Resp: 4808
Ion Ratio Lower Upper
228 100
226 30.2 24.9 37.3
229 20.8 15.8 23.8

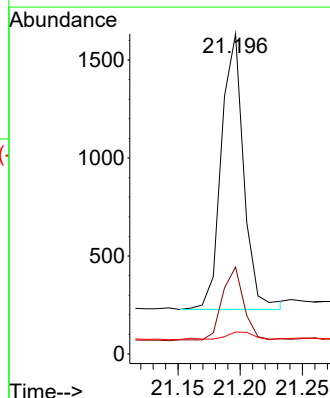
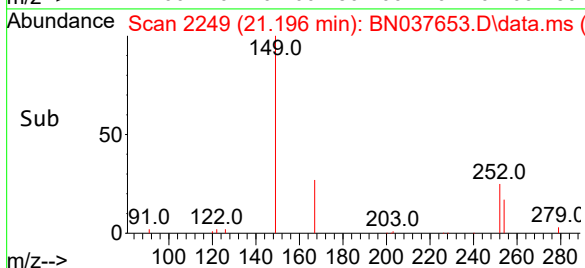
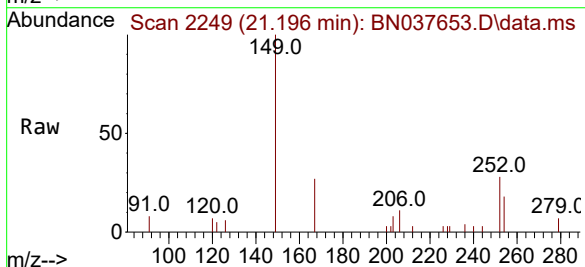
Manual Integrations
APPROVED

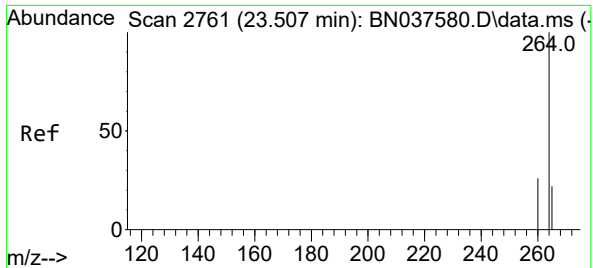
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.371 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:149 Resp: 1764
Ion Ratio Lower Upper
149 100
167 26.4 20.5 30.7
279 3.6 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.496 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037653.D

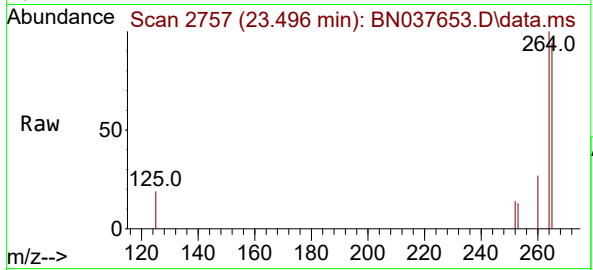
Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD



Tgt Ion:264 Resp: 3064

Ion Ratio Lower Upper

264 100

260 27.4 21.6 32.4

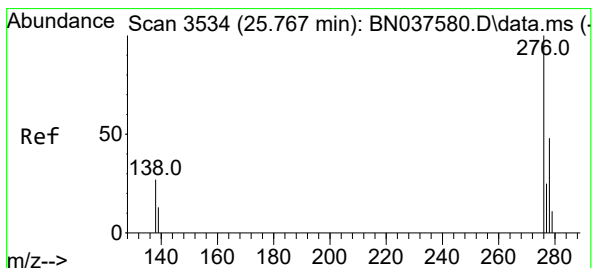
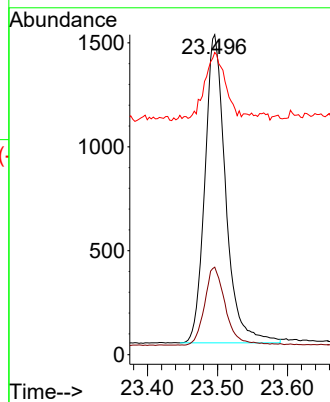
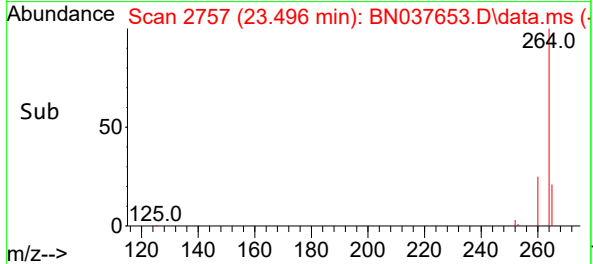
265 94.5 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.380 ng

RT: 25.750 min Scan# 3528

Delta R.T. -0.017 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

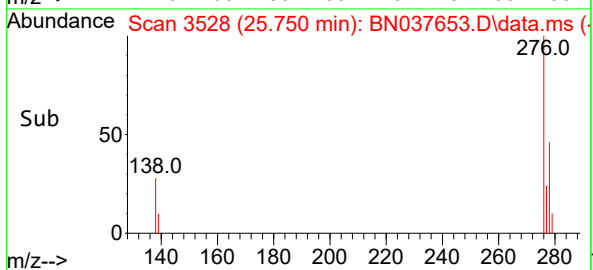
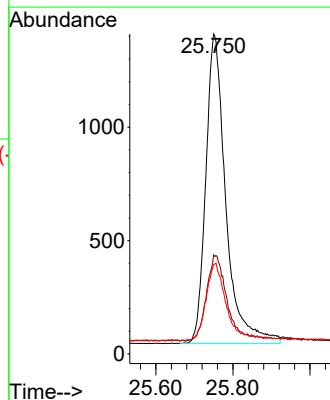
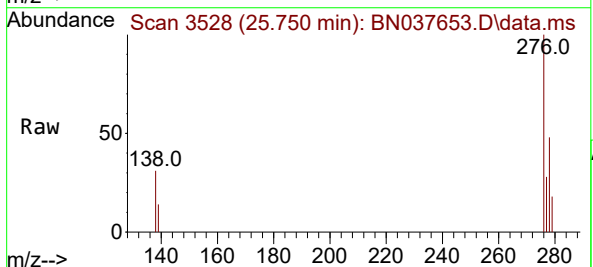
Tgt Ion:276 Resp: 4912

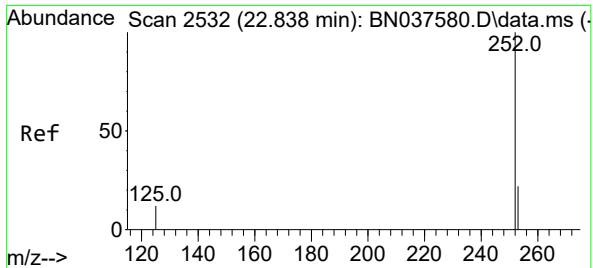
Ion Ratio Lower Upper

276 100

138 28.0 23.3 34.9

277 23.8 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.401 ng

RT: 22.823 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD

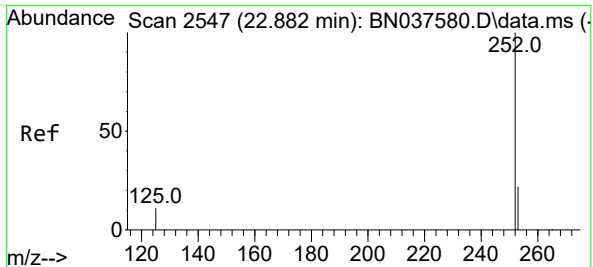
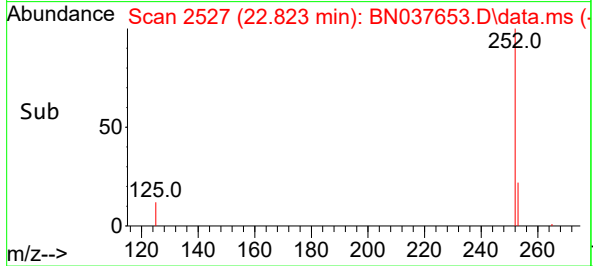
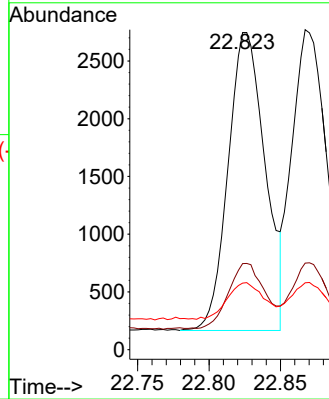
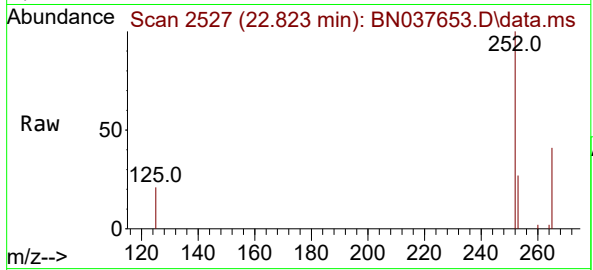
Tgt Ion:252	Resp:	4652
Ion Ratio	Lower	Upper
252	100	
253	27.1	20.0 30.0
125	21.0	13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#38

Benzo(k)fluoranthene

Concen: 0.353 ng

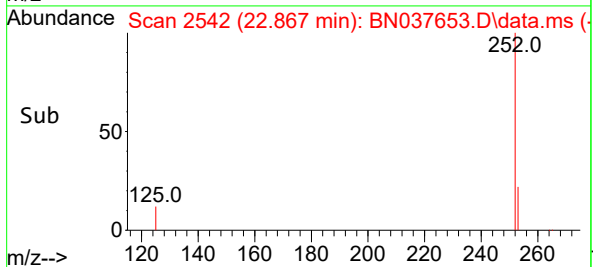
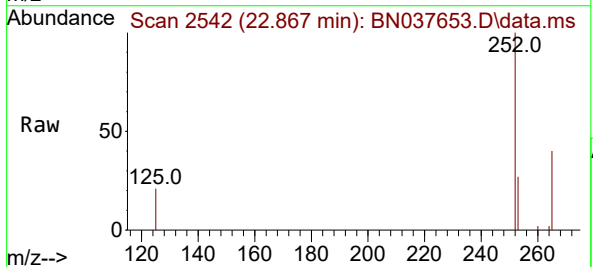
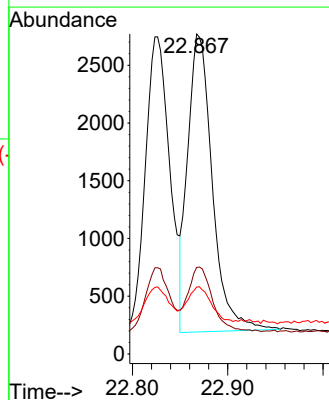
RT: 22.867 min Scan# 2542

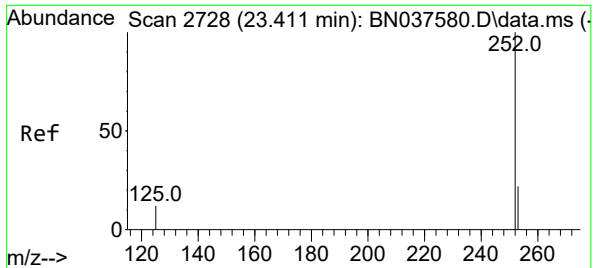
Delta R.T. -0.014 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Tgt Ion:252	Resp:	4628
Ion Ratio	Lower	Upper
252	100	
253	27.1	19.9 29.9
125	20.9	15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.400 ng

RT: 23.399 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD

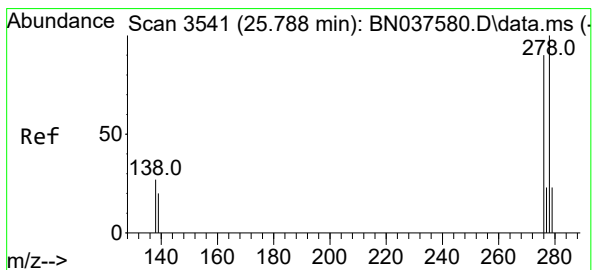
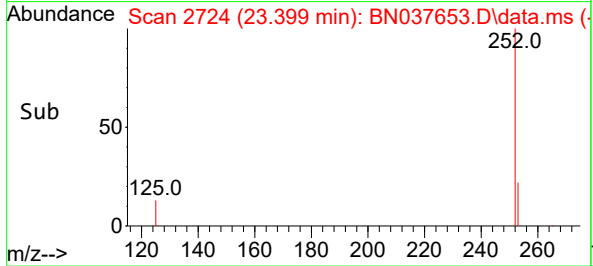
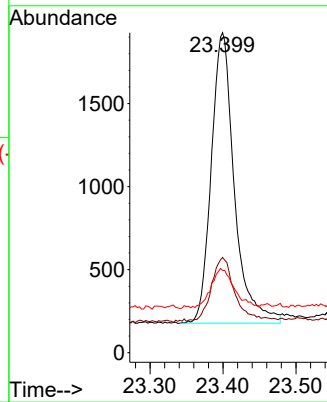
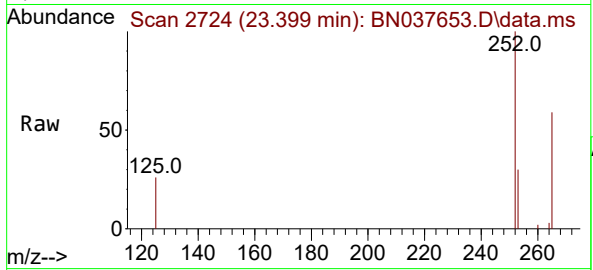
Tgt Ion:	252	Resp:	3850
Ion Ratio	Lower	Upper	
252	100		
253	29.7	21.6	32.4
125	25.7	16.8	25.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.355 ng

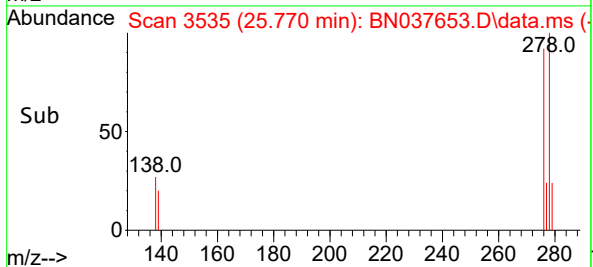
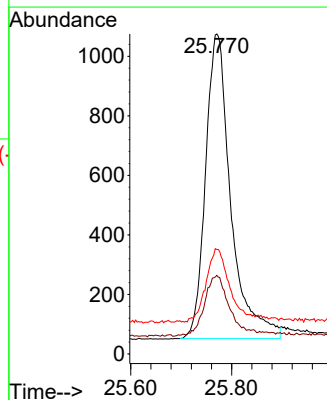
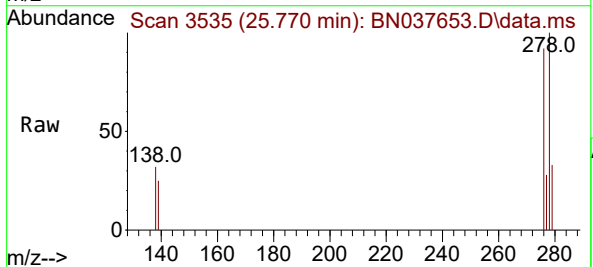
RT: 25.770 min Scan# 3535

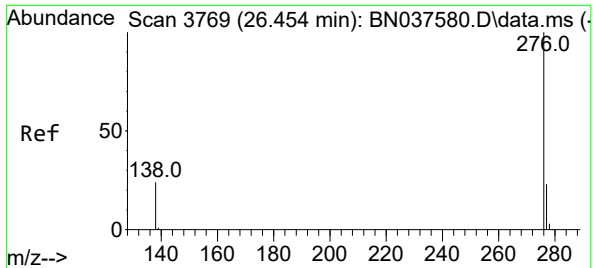
Delta R.T. -0.017 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Tgt Ion:	278	Resp:	3559
Ion Ratio	Lower	Upper	
278	100		
139	24.6	18.3	27.5
279	32.7	22.5	33.7





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.434 min Scan# 31

Delta R.T. -0.020 min

Lab File: BN037653.D

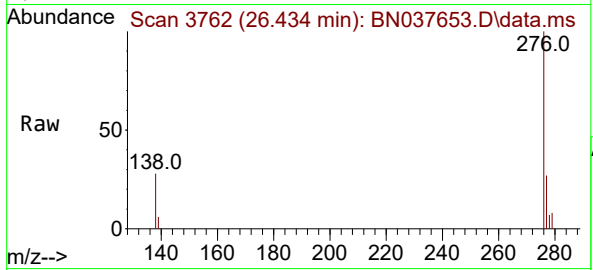
Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD



Tgt Ion:276 Resp: 4360

Ion Ratio Lower Upper

276 100

277 26.7 21.0 31.4

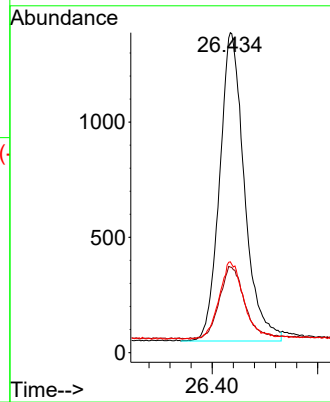
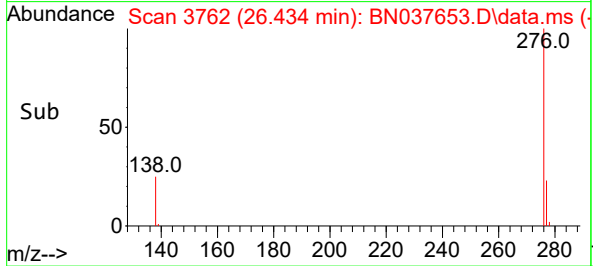
138 28.4 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025





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

Manual Integration Report

Sequence:

BN081225

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

bn082825

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2937-01	BN037650.D	Anthracene	rahul	9/3/2025 8:56:12 AM	Jagrut	9/3/2025 10:37:52 AM	Peak Integrated by Software
Q2937-01	BN037650.D	Indeno(1,2,3-cd)pyrene	rahul	9/3/2025 8:56:12 AM	Jagrut	9/3/2025 10:37:52 AM	Peak Integrated by Software
PB169421BS	BN037652.D	2-Methylnaphthalene-d10	rahul	9/3/2025 8:56:18 AM	Jagrut	9/3/2025 10:37:57 AM	Peak Integrated by Software
PB169421BSD	BN037653.D	2-Methylnaphthalene-d10	rahul	9/3/2025 8:56:21 AM	Jagrut	9/3/2025 10:37:59 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081225

Review By	Rahul	Review On	8/13/2025 11:25:23 AM
Supervise By	Jagrut	Supervise On	8/13/2025 11:26:50 AM
SubDirectory	BN081225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn081225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037576.D	12 Aug 2025 15:05	RC/JU	Ok
2	SSTDCCC0.4	BN037577.D	12 Aug 2025 15:49	RC/JU	Not Ok
3	SSTDICC0.1	BN037578.D	12 Aug 2025 16:26	RC/JU	Ok
4	SSTDICC0.2	BN037579.D	12 Aug 2025 17:03	RC/JU	Ok
5	SSTDICCC0.4	BN037580.D	12 Aug 2025 17:39	RC/JU	Ok
6	SSTDICC0.8	BN037581.D	12 Aug 2025 18:16	RC/JU	Ok
7	SSTDICC1.6	BN037582.D	12 Aug 2025 18:52	RC/JU	Ok
8	SSTDICC3.2	BN037583.D	12 Aug 2025 19:29	RC/JU	Ok
9	SSTDICC5.0	BN037584.D	12 Aug 2025 20:05	RC/JU	Ok
10	SSTDICV0.4	BN037585.D	12 Aug 2025 20:42	RC/JU	Ok
11	PB169094BL	BN037586.D	12 Aug 2025 21:55	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN082825

Review By	rahul	Review On	9/3/2025 8:56:41 AM
Supervise By	Jagrut	Supervise On	9/3/2025 10:38:11 AM
SubDirectory	BN082825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn081225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037647.D	28 Aug 2025 08:50	RC/JU	Ok
2	SSTDCCC0.4	BN037648.D	28 Aug 2025 09:29	RC/JU	Ok
3	PB169421BL	BN037649.D	28 Aug 2025 10:05	RC/JU	Ok
4	Q2937-01	BN037650.D	28 Aug 2025 10:42	RC/JU	Ok,M
5	Q2937-02	BN037651.D	28 Aug 2025 11:18	RC/JU	Ok
6	PB169421BS	BN037652.D	28 Aug 2025 11:54	RC/JU	Ok,M
7	PB169421BSD	BN037653.D	28 Aug 2025 12:30	RC/JU	Ok,M
8	SSTDCCC0.4	BN037654.D	28 Aug 2025 13:14	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081225

Review By	Rahul	Review On	8/13/2025 11:25:23 AM
Supervise By	Jagrut	Supervise On	8/13/2025 11:26:50 AM
SubDirectory	BN081225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn081225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037576.D	12 Aug 2025 15:05		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037577.D	12 Aug 2025 15:49	A Fresh Calibration is required	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037578.D	12 Aug 2025 16:26		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037579.D	12 Aug 2025 17:03		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037580.D	12 Aug 2025 17:39	Compound #20 kept on LR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037581.D	12 Aug 2025 18:16		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037582.D	12 Aug 2025 18:52		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037583.D	12 Aug 2025 19:29		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037584.D	12 Aug 2025 20:05	Comp #20,23,24 removed from 5ppm	RC/JU	Ok
10	SSTDICV0.4	ICVBN081225	BN037585.D	12 Aug 2025 20:42		RC/JU	Ok
11	PB169094BL	PB169094BL	BN037586.D	12 Aug 2025 21:55		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082825

Review By	rahul	Review On	9/3/2025 8:56:41 AM
Supervise By	Jagrut	Supervise On	9/3/2025 10:38:11 AM
SubDirectory	BN082825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn081225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037647.D	28 Aug 2025 08:50		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037648.D	28 Aug 2025 09:29		RC/JU	Ok
3	PB169421BL	PB169421BL	BN037649.D	28 Aug 2025 10:05		RC/JU	Ok
4	Q2937-01	RW8-SP100-20250821	BN037650.D	28 Aug 2025 10:42		RC/JU	Ok,M
5	Q2937-02	RW8-SP303-20250821	BN037651.D	28 Aug 2025 11:18		RC/JU	Ok
6	PB169421BS	PB169421BS	BN037652.D	28 Aug 2025 11:54		RC/JU	Ok,M
7	PB169421BSD	PB169421BSD	BN037653.D	28 Aug 2025 12:30		RC/JU	Ok,M
8	SSTDCCC0.4	SSTDCCC0.4EC	BN037654.D	28 Aug 2025 13:14		RC/JU	Ok

M : Manual Integration

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

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 08/27/2025

Extraction Start Time : 08:45

Extraction End Date : 08/27/2025

Extraction End Time : 13:45

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3964
Baked Na2SO4	N/A	EP2632
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
8/27/25	RS (Env Lab)	R/SVOC
13:50	Preparation Group	Analysis Group

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

Concentration Date: 08/27/2025

Sample ID	Client Sample ID	Test	g / <u>mL</u>	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169421BL	SBLK421	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB169421BS	SLCS421	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB169421BS D	SLCSD421	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q2937-01	RW8-SP100-20250821	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	B		4
Q2937-02	RW8-SP303-20250821	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	D		5

[Large handwritten signature/initials]

RS
8/27

169421
8:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2937 WorkList ID : 191530 Department : Extraction Date : 08-27-2025 08:40:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2937-01	RW8-SP100-20250821	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J31	08/21/2025	8270-Modified
Q2937-02	RW8-SP303-20250821	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J31	08/21/2025	8270-Modified

Date/Time 8/27/25 8:40
Raw Sample Received by: EH (Ext-Lab)
Raw Sample Relinquished by: SM

Date/Time 8/27/25 9:15
Raw Sample Received by: SM
Raw Sample Relinquished by: EH (Ext-Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q2937

Test : SVOC-SIMGroup1

Prepbatch ID : PB169421,

Sequence ID/Qc Batch ID: bn082825,

Standard ID :

EP2609,EP2610,EP2632,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,

Chemical ID :

1ul/100ul

sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3964,M6157,S10105,S11073,S11496,S11652,S11807,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
<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>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
<u>FROM</u>	1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml							

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2632	08/11/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 08/11/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml 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

[illegible]

<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
<u>FROM</u> 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



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

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

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 08/05/2025
<u>FROM</u>	0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml							

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	08/14/2025 / RUPESH	03/06/2025 / RUPESH	E3964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12498

[CS 4978-1]

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

[CS 4978-1]

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

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/30/2025	06/04/2025 / Jagrut	12/11/2024 / anahy	S12986

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

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



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:

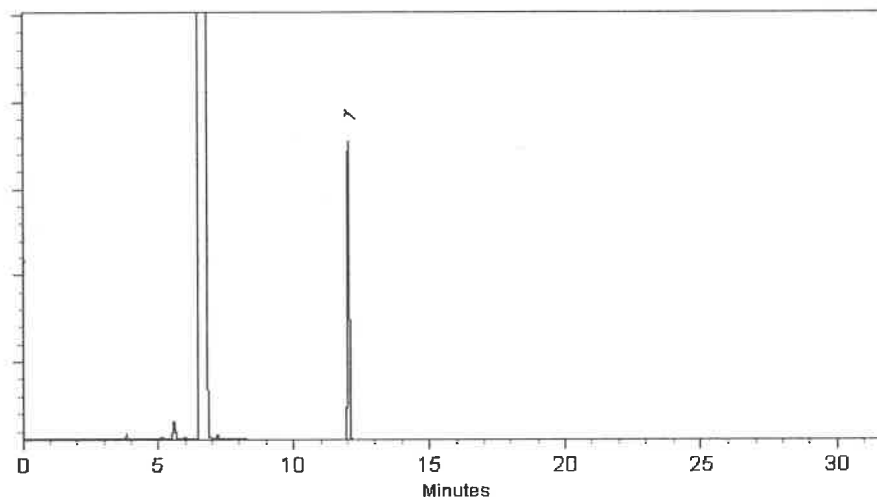
200°C

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



Certificate of Analysis

Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

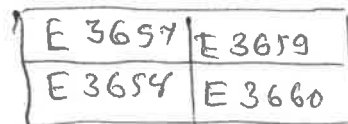
This document has been electronically produced and is valid without a signature.

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

Additional Information

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

Product meets analytical specifications of the grades listed.





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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

Jamie Croak

Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

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

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

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

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

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

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_2Cl_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 ($\mu\text{eq/g}$)	≤ 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

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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.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 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

Received on .

E 3964

Jamie Croak
Director Quality Operations, Bioscience Production

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



M6157
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

 **avantor**™



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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

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

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

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



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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

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

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

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31853 **Lot No.:** A0200655
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11795
↓
S11808 } RC /
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

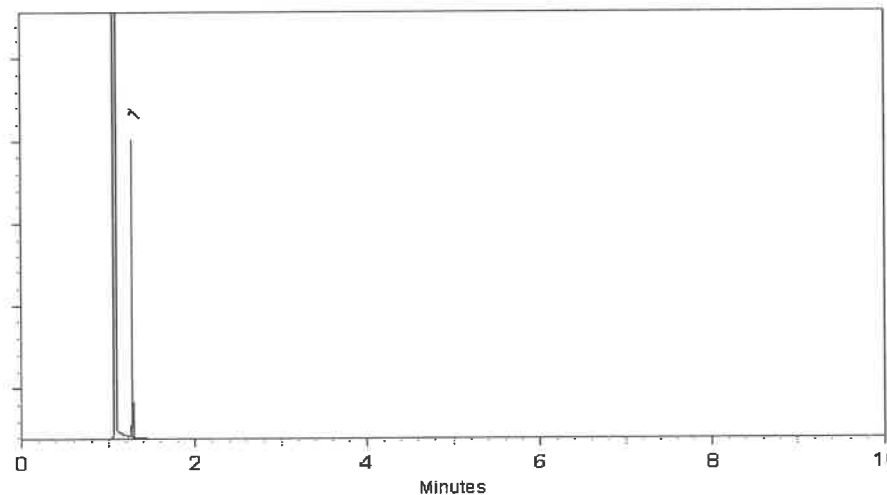
FID

Split Vent:

100 mL/min.

Inj. Vol

1µL



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

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

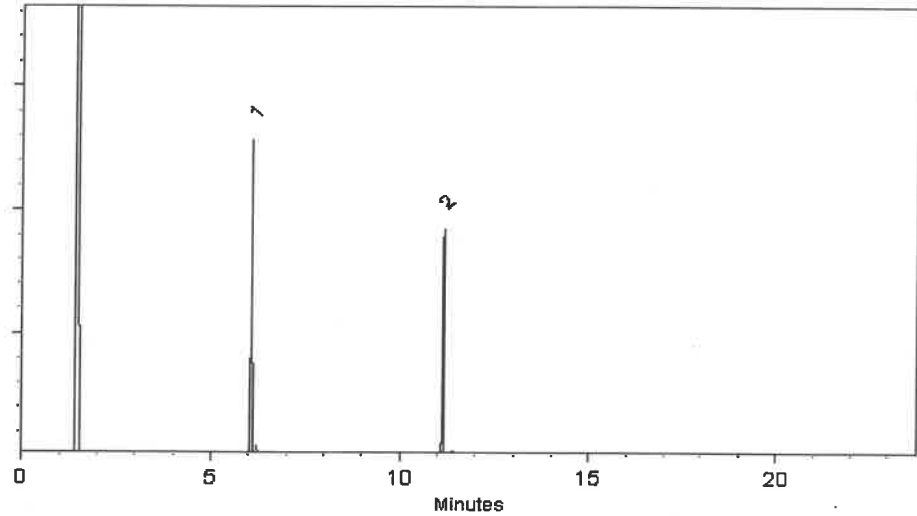
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

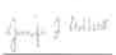


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff

Melissa Workoff
Chemist

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



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

512187 } RC/
↓ } 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:

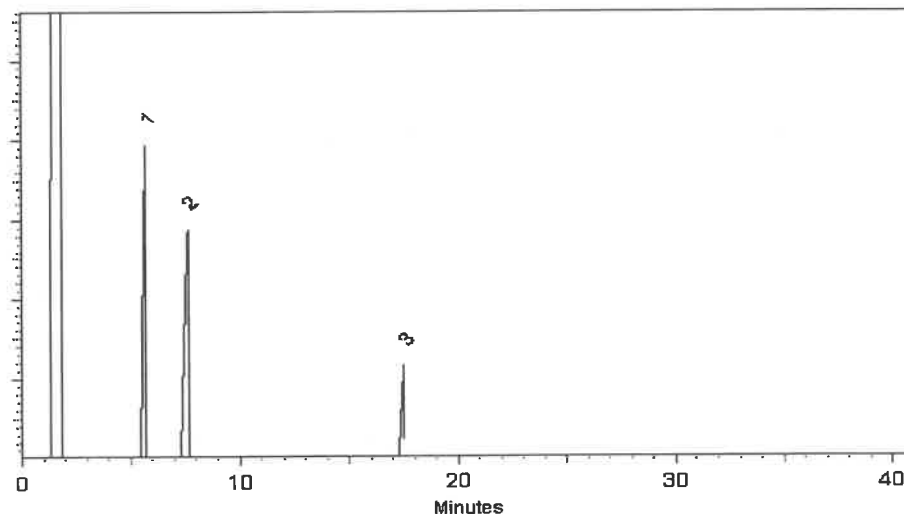
FID

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

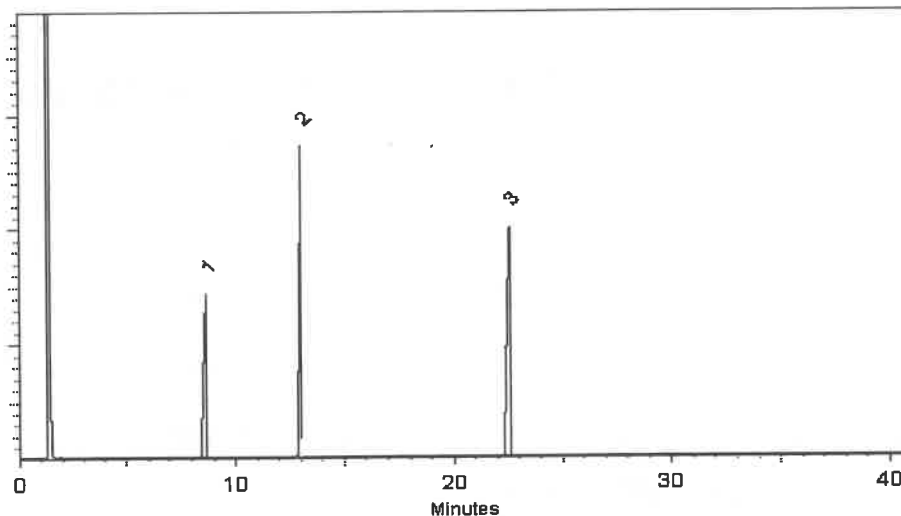
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

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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.

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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.

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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

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listed are determined gravimetrically.



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

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

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

S12577 } 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:

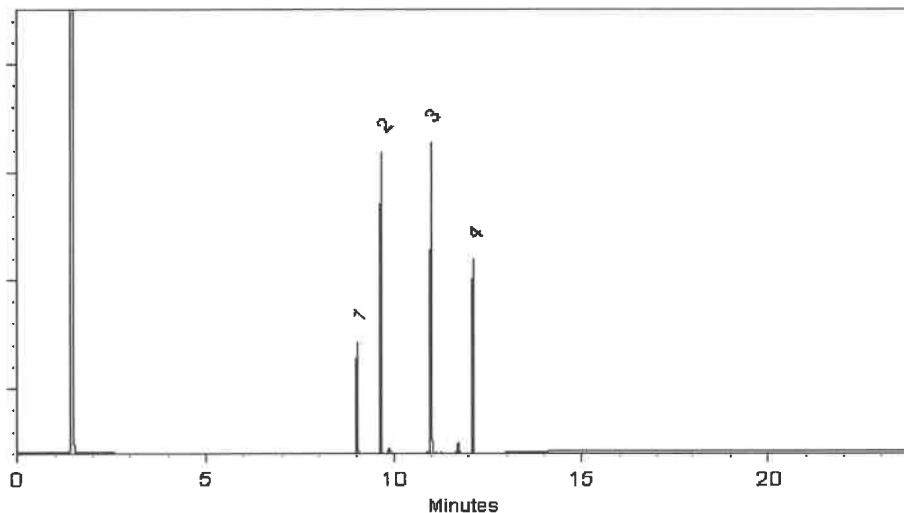
FID

Split Vent:

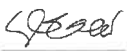
10 ml/min.

Inj. Vol

1µl

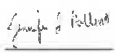


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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	Accenaphthylene	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



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

Q 2937

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Ln, Suite 300

CITY: Virginia Beach STATE: VA ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757-466-4901

FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT #: 112G08005-WE13 LOCATION: RW8

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetrattech.com

PHONE: 757-466-4901

FAX: 757-461-4148

BILLING INFORMATION

BILL TO:

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

ANALYSIS

1,4-Dioxane SW846 8270
SIM

Iron, Total

TSS

TDS

1

2

3

4

5

6

7

8

9

PRESERVATIVES

1

2

3

4

5

6

7

8

9

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*

HARD COPY: 10 DAYS*

EDD: 10 DAYS*

* TO BE APPROVED BY CHEMTECH

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY☐ USEPA CLP☐ RESULTS + QC☐ New York State ASP "B"☐ New Jersey REDUCED☐ New York State ASP "A"☐ New Jersey CLP☐ Other☐ EDD FormatCHEMTECH
SAMPLE
IDPROJECT
SAMPLE IDENTIFICATIONSAMPLE
MATRIXSAMPLE
TYPESAMPLE
COLLECTION

of Bottles

COMP

GRAB

DATE

TIME

1.

RW8-SP100-20250821

GW

X

8/21/25

13:05

2

X

X

2.

RW8-SP303-20250821

GW

X

8/21/25

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 POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

RELINQUISHED BY

DATE/TIME

RECEIVED BY

RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp

MeOH extraction requires an additional 4oz. Jar for percent solid

☐ Ice in Cooler?:

Comments:

Page _____ of _____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ OvernightCHEMTECH: ☐ 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	TX-C25-00189
Virginia	460312

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037650.D
 Acq On : 28 Aug 2025 10:42
 Operator : RC/JU
 Sample : Q2937-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW8-SP100-20250821

Quant Time: Aug 28 11:49:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

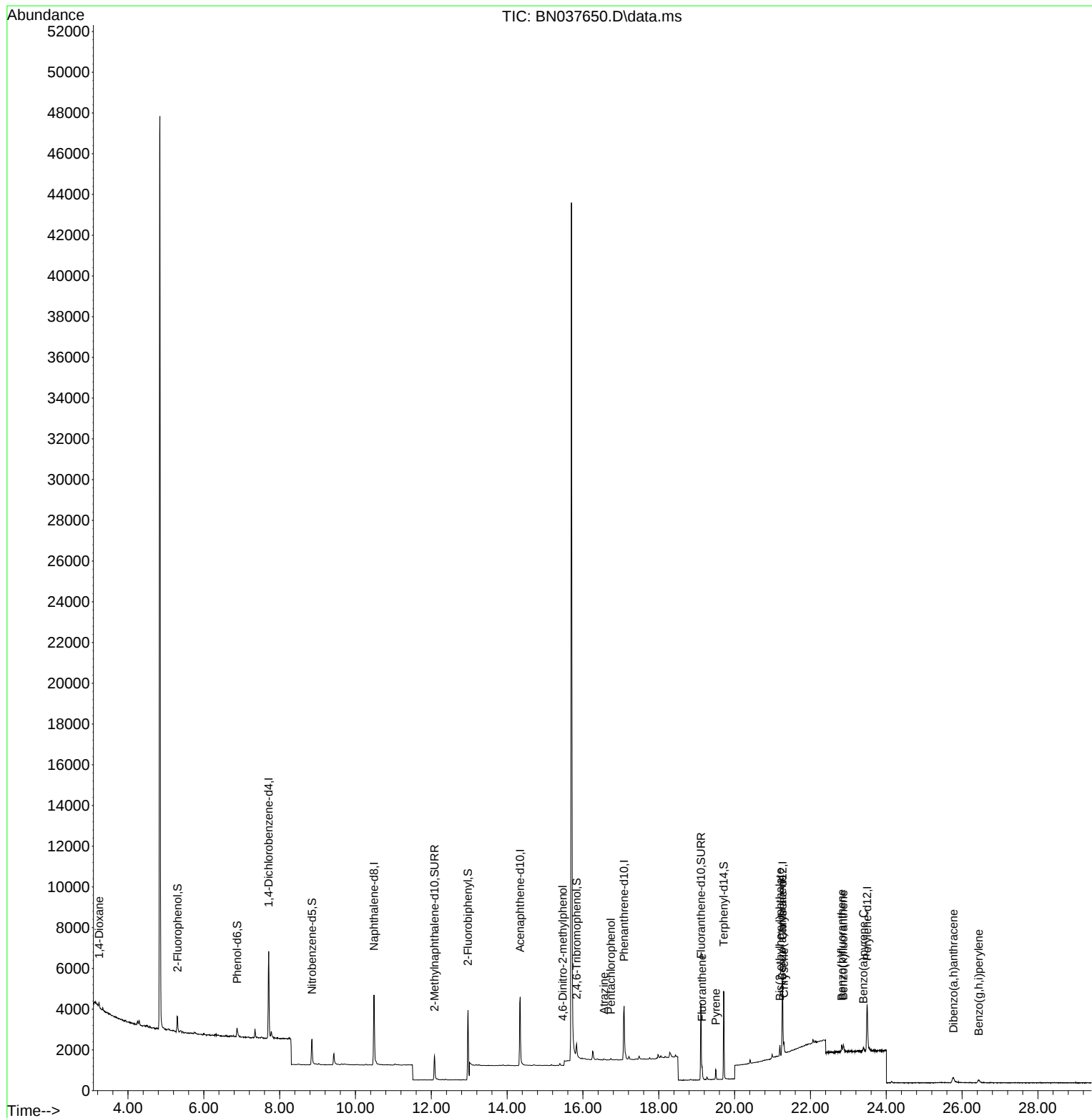
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2104	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	4814	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2198	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4468	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3707	0.400	ng	# 0.00
35) Perylene-d12	23.493	264	3325	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	637	0.134	ng	0.00
5) Phenol-d6	6.879	99	414	0.072	ng	0.00
8) Nitrobenzene-d5	8.854	82	1179	0.348	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	1892	0.289	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	423	0.440	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	4845	0.381	ng	0.00
27) Fluoranthene-d10	19.113	212	4436	0.377	ng	0.00
31) Terphenyl-d14	19.712	244	4277	0.561	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	108	0.054	ng	# 8
20) 4,6-Dinitro-2-methylph...	15.467	198	7	0.189	ng	# 1
23) Atrazine	16.553	200	48	0.030	ng	# 52
24) Pentachlorophenol	16.739	266	41	0.029	ng	# 77
28) Fluoranthene	19.141	202	479	0.031	ng	# 84
30) Pyrene	19.503	202	443	0.032	ng	98
32) Benzo(a)anthracene	21.250	228	380	0.031	ng	# 77
33) Chrysene	21.304	228	480	0.035	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.196	149	479	0.094	ng	# 96
37) Benzo(b)fluoranthene	22.826	252	445	0.035	ng	# 5
38) Benzo(k)fluoranthene	22.870	252	427	0.030	ng	# 12
39) Benzo(a)pyrene	23.396	252	295	0.028	ng	# 1
40) Dibenzo(a,h)anthracene	25.773	278	251	0.023	ng	# 1
41) Benzo(g,h,i)perylene	26.440	276	311	0.027	ng	# 38

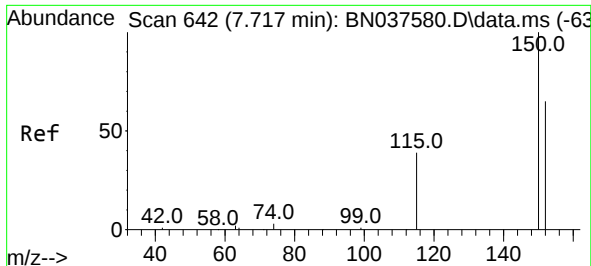
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037650.D
Acq On : 28 Aug 2025 10:42
Operator : RC/JU
Sample : Q2937-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

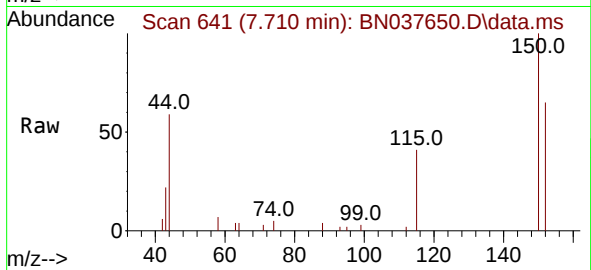
Quant Time: Aug 28 11:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



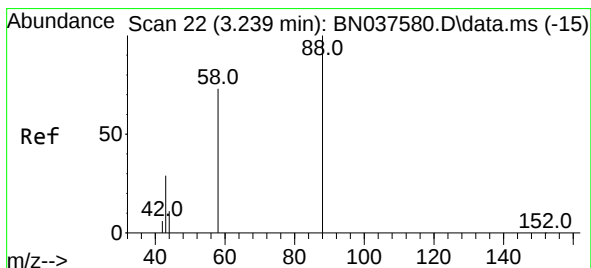
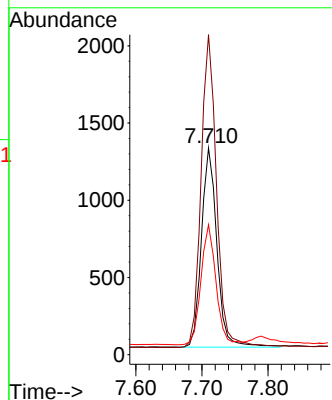
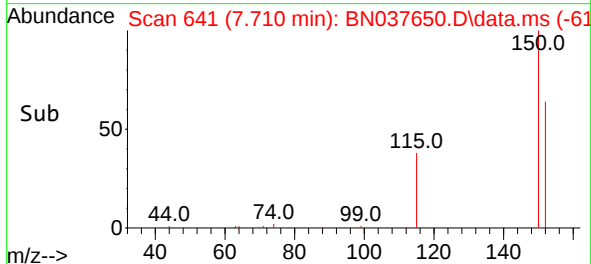


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.710 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN037650.D
 Acq: 28 Aug 2025 10:42

Instrument :
 BNA_N
 ClientSampleId :
 RW8-SP100-20250821

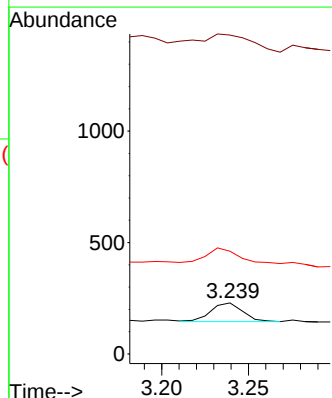
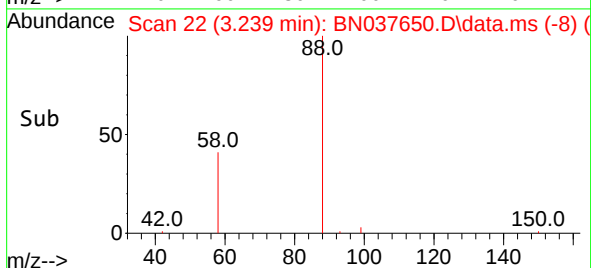
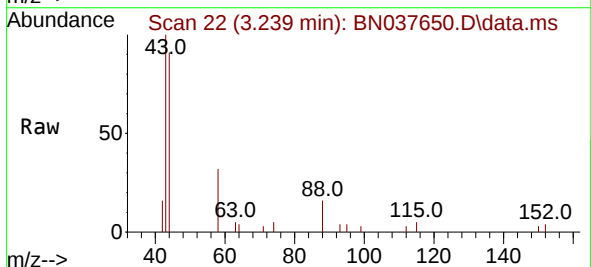


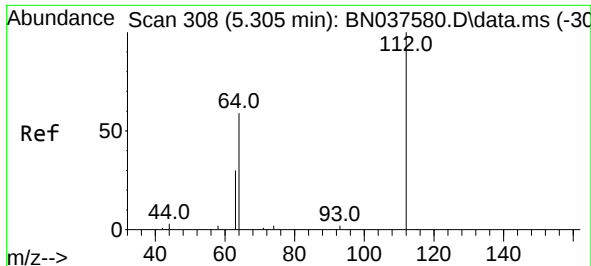
Tgt Ion:152 Resp: 2104
 Ion Ratio Lower Upper
 152 100
 150 154.7 122.2 183.4
 115 62.8 49.8 74.6



#2
 1,4-Dioxane
 Concen: 0.054 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN037650.D
 Acq: 28 Aug 2025 10:42

Tgt Ion: 88 Resp: 108
 Ion Ratio Lower Upper
 88 100
 43 113.0 25.8 38.6#
 58 137.0 61.2 91.8#





#4

2-Fluorophenol

Concen: 0.134 ng

RT: 5.305 min Scan# 308

Delta R.T. 0.000 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

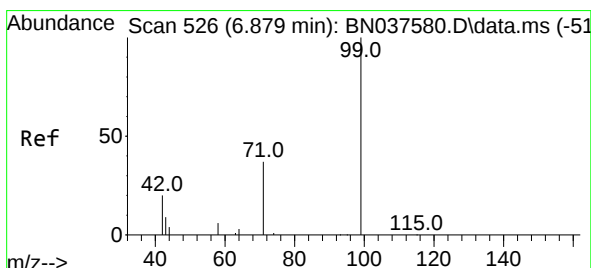
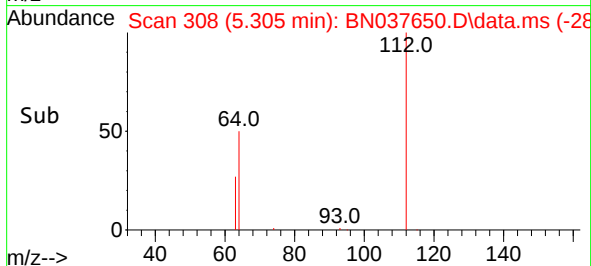
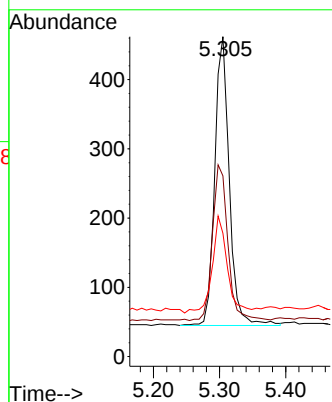
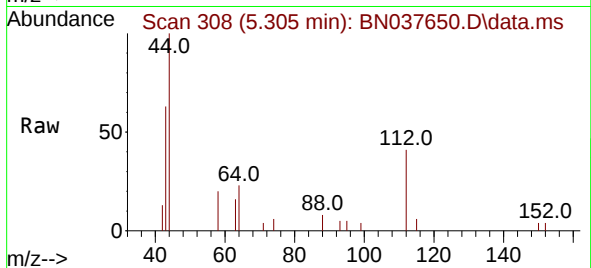
Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821

Tgt Ion:	112	Resp:	637
Ion	Ratio	Lower	Upper
112	100		
64	57.1	44.9	67.3
63	34.5	23.4	35.2



#5

Phenol-d6

Concen: 0.072 ng

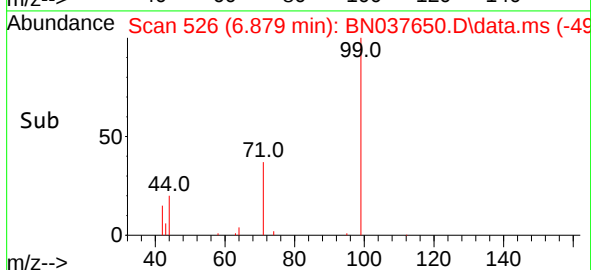
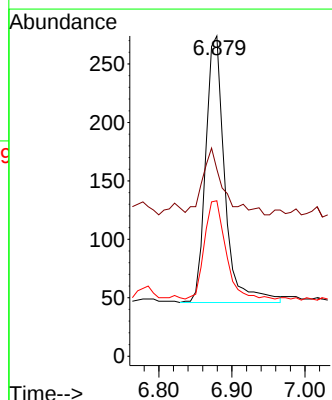
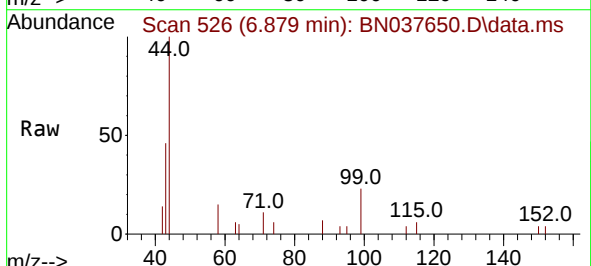
RT: 6.879 min Scan# 526

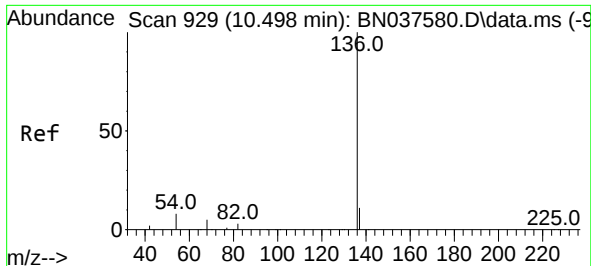
Delta R.T. 0.000 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

Tgt Ion:	99	Resp:	414
Ion	Ratio	Lower	Upper
99	100		
42	29.5	18.5	27.7#
71	42.0	28.6	42.8

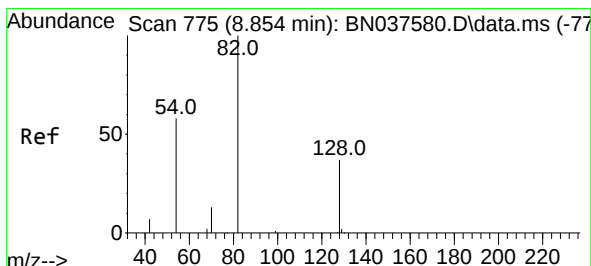
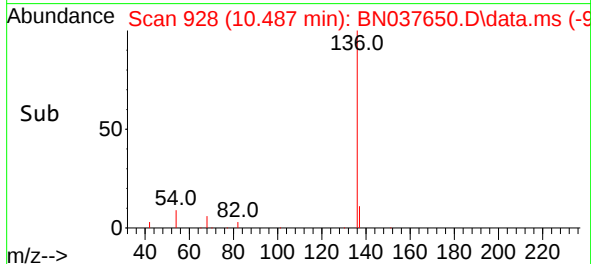
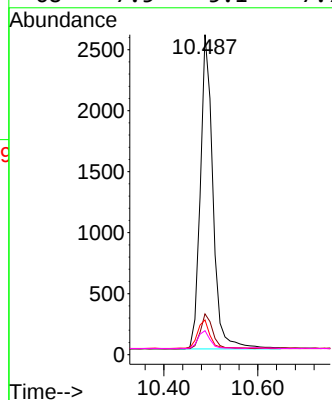
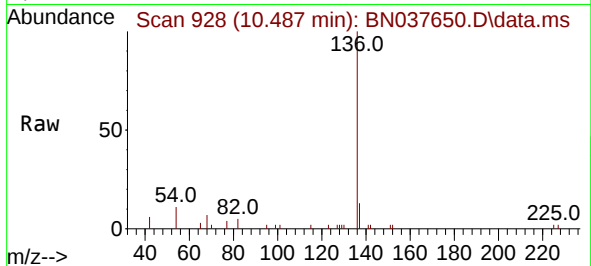




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

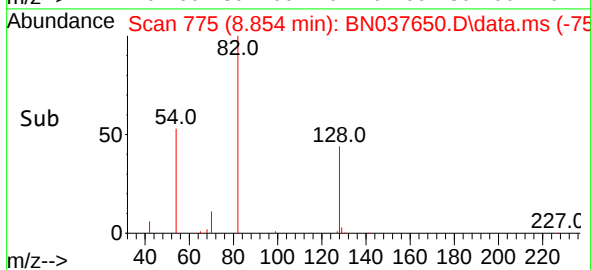
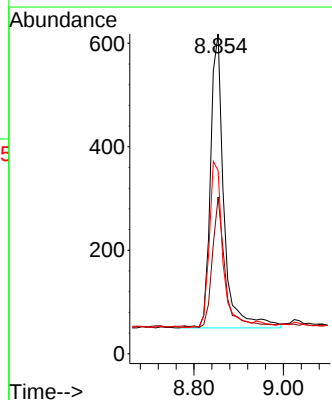
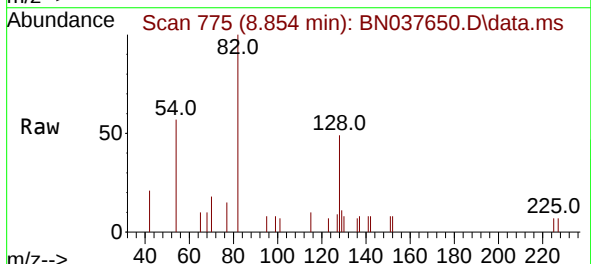
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

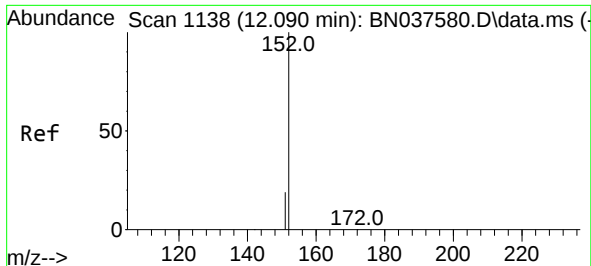
Tgt Ion:	136	Resp:	4814
Ion	Ratio	Lower	Upper
136	100		
137	12.7	9.5	14.3
54	10.8	7.3	10.9
68	7.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.348 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:	82	Resp:	1179
Ion	Ratio	Lower	Upper
82	100		
128	49.0	32.6	48.8#
54	57.3	48.9	73.3

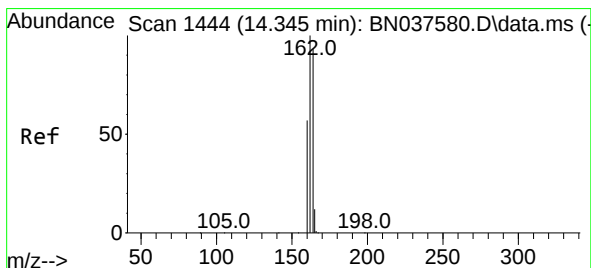
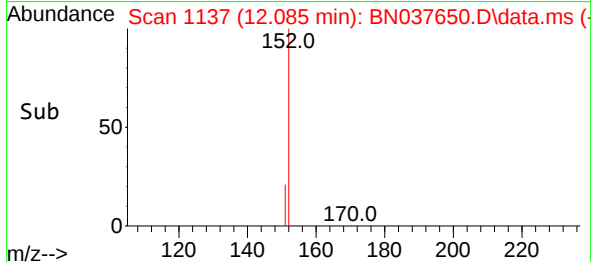
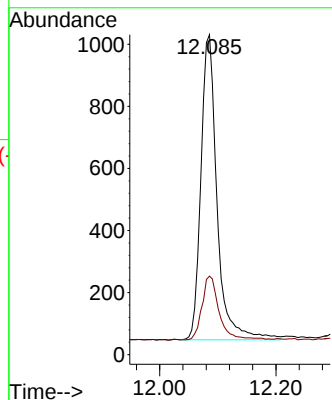
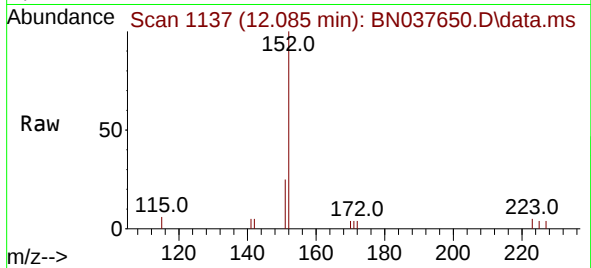




#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.085 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

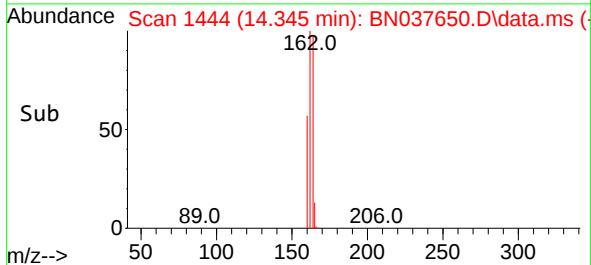
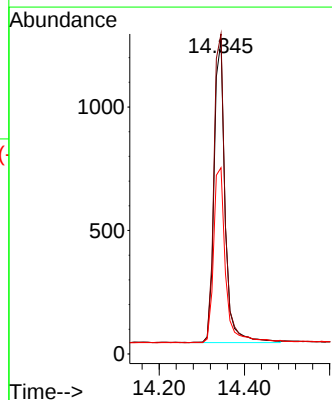
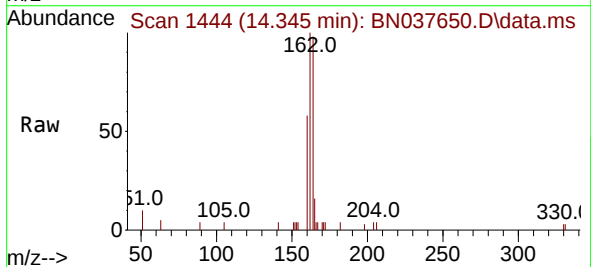
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

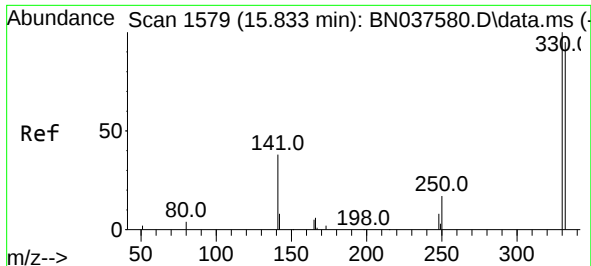
Tgt Ion:152 Resp: 1892
Ion Ratio Lower Upper
152 100
151 22.0 17.3 25.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:164 Resp: 2198
Ion Ratio Lower Upper
164 100
162 102.0 85.5 128.3
160 59.3 49.5 74.3

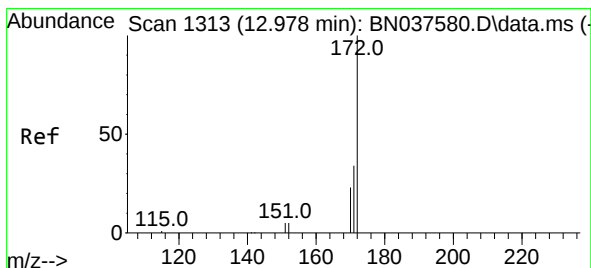
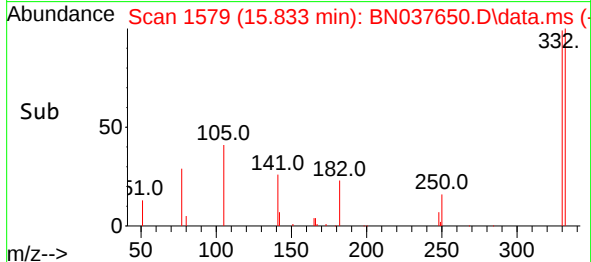
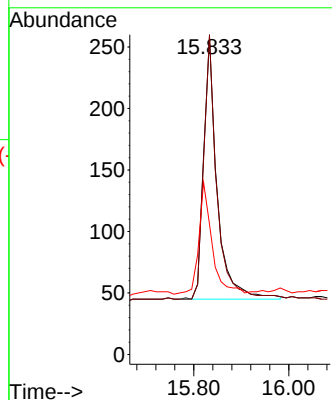
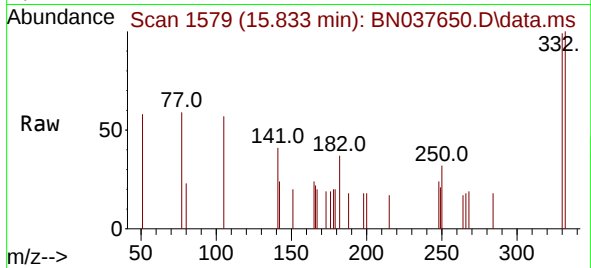




#14
2,4,6-Tribromophenol
Concen: 0.440 ng
RT: 15.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

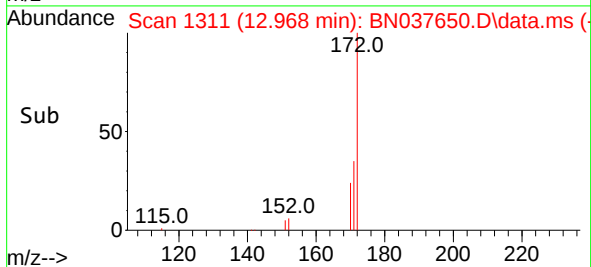
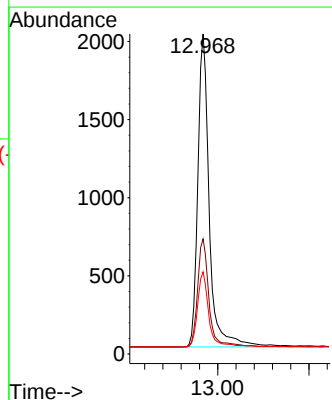
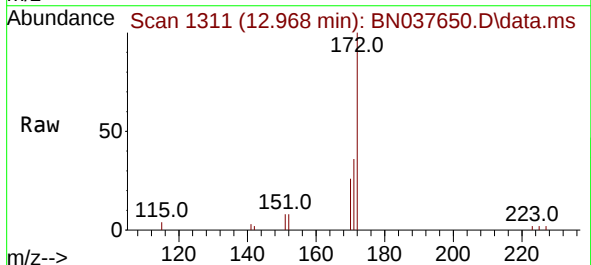
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

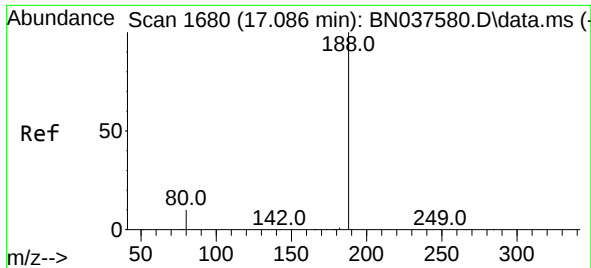
Tgt Ion:330 Resp: 423
Ion Ratio Lower Upper
330 100
332 98.3 77.4 116.0
141 41.8 30.9 46.3



#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.010 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:172 Resp: 4845
Ion Ratio Lower Upper
172 100
171 36.0 28.2 42.4
170 25.7 19.2 28.8

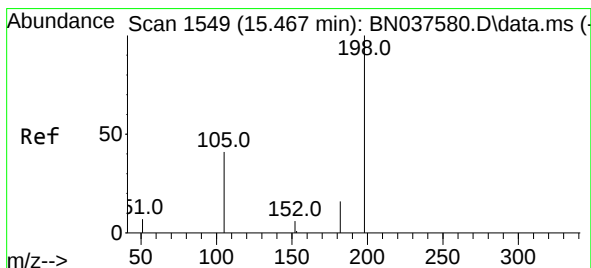
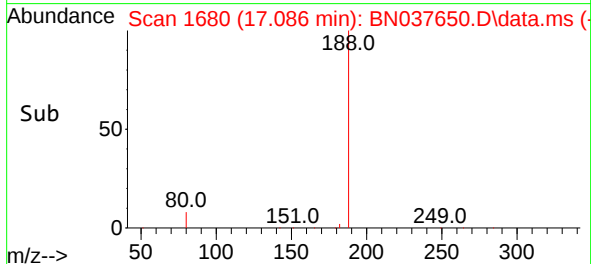
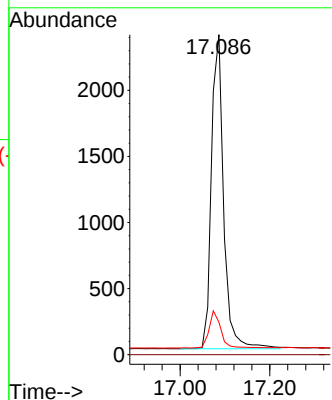
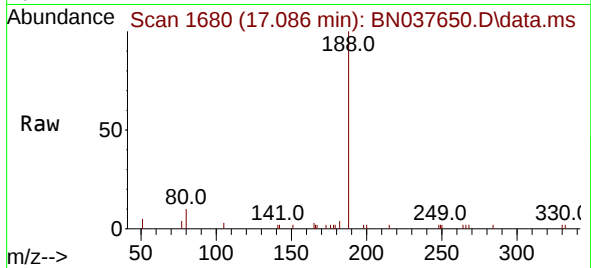




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

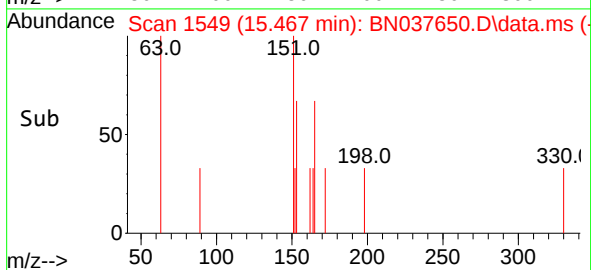
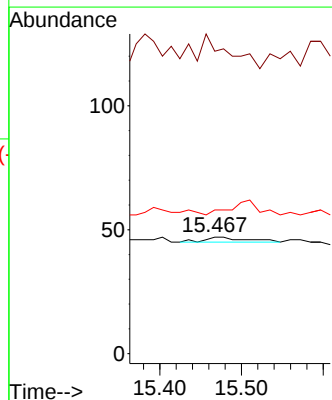
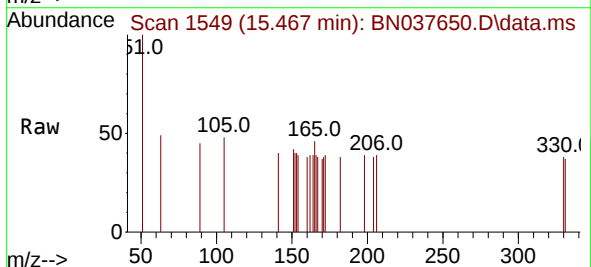
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

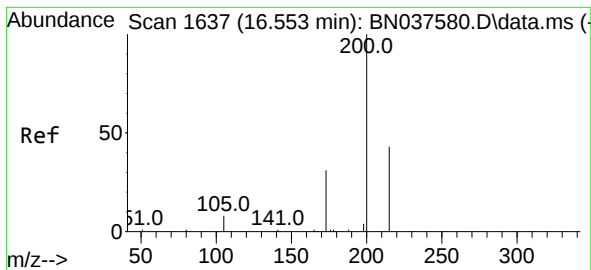
Tgt Ion:188 Resp: 4468
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.1 9.1 13.7



#20
4,6-Dinitro-2-methylphenol
Concen: 0.189 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:198 Resp: 7
Ion Ratio Lower Upper
198 100
51 259.6 81.0 121.6#
105 123.4 52.5 78.7#





#23

Atrazine

Concen: 0.030 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821

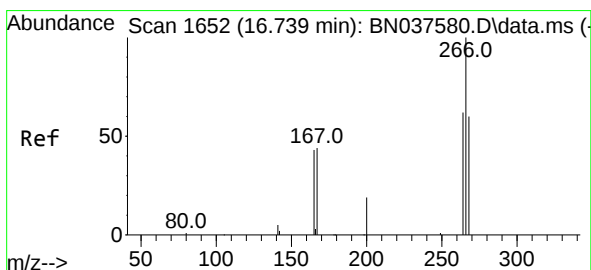
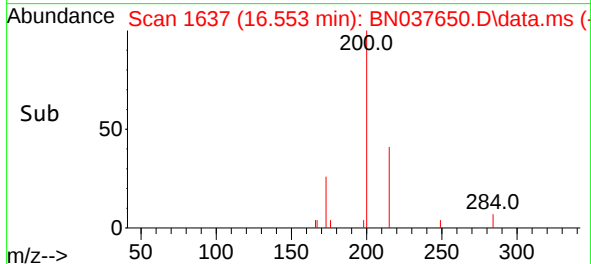
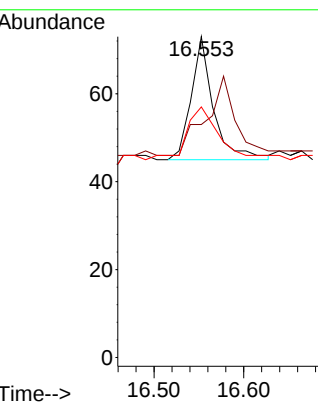
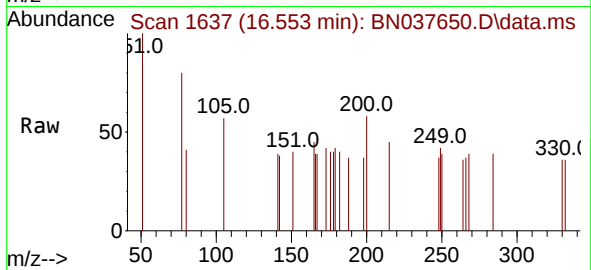
Tgt Ion:200 Resp: 48

Ion Ratio Lower Upper

200 100

173 72.6 31.0 46.4#

215 78.1 39.4 59.0#



#24

Pentachlorophenol

Concen: 0.029 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

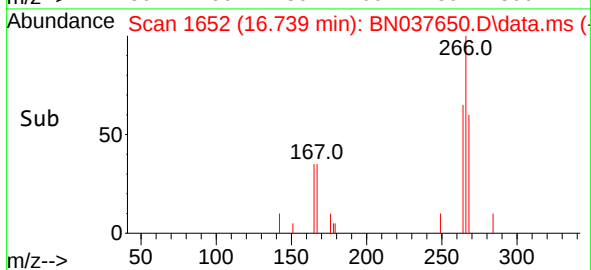
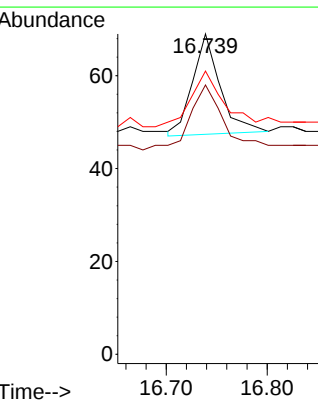
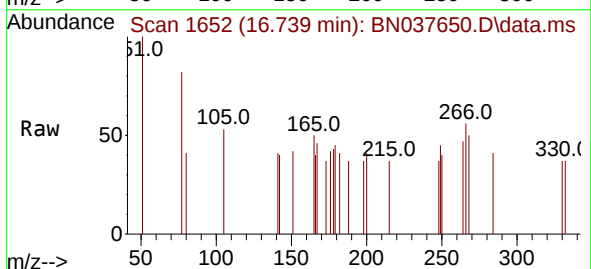
Tgt Ion:266 Resp: 41

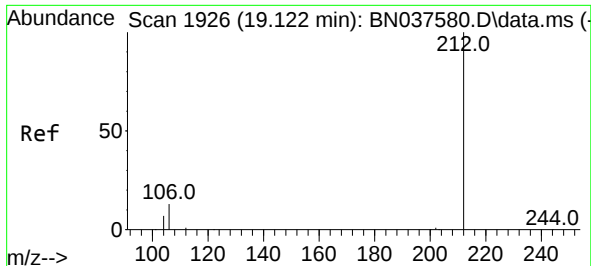
Ion Ratio Lower Upper

266 100

264 82.9 49.6 74.4#

268 75.6 49.2 73.8#

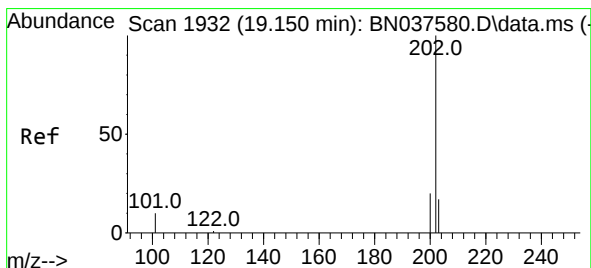
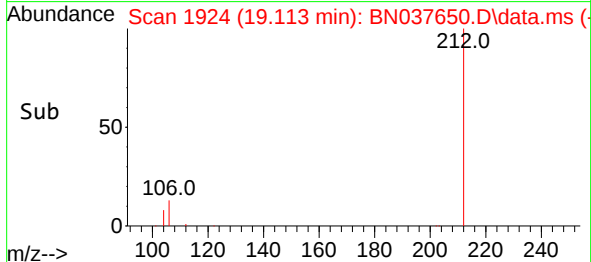
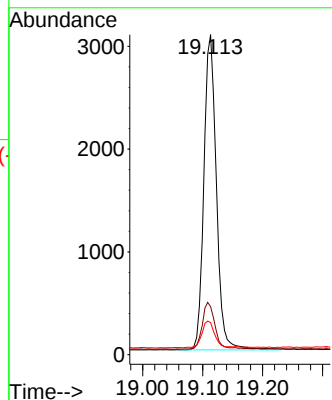
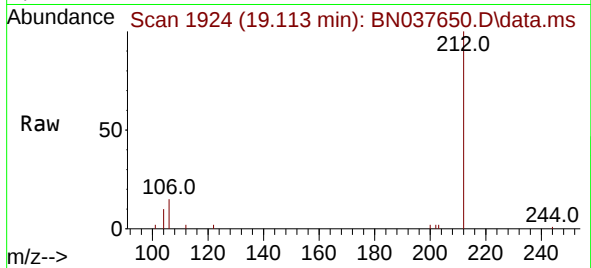




#27
Fluoranthene-d10
Concen: 0.377 ng
RT: 19.113 min Scan# 1910
Delta R.T. -0.009 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

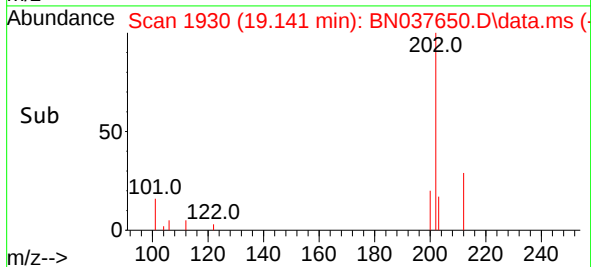
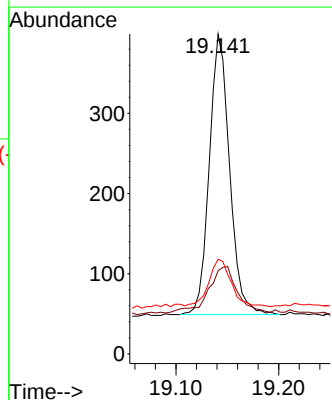
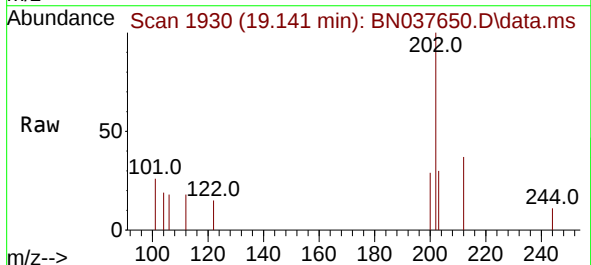
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

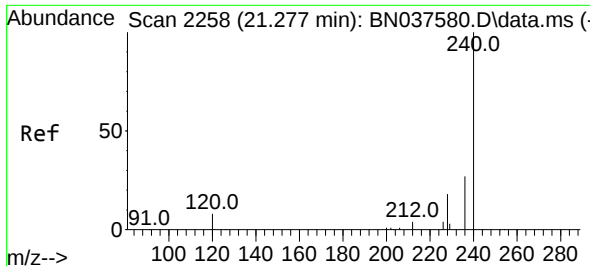
Tgt Ion:212 Resp: 4436
Ion Ratio Lower Upper
212 100
106 15.3 11.5 17.3
104 8.6 6.6 9.8



#28
Fluoranthene
Concen: 0.031 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:202 Resp: 479
Ion Ratio Lower Upper
202 100
101 24.0 9.0 13.6#
203 19.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821

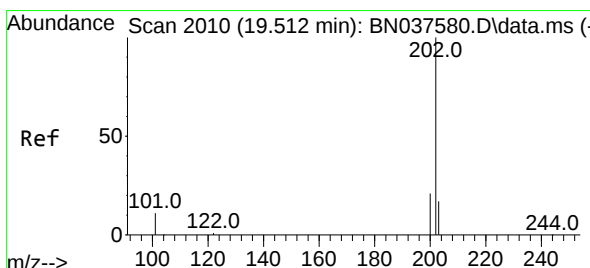
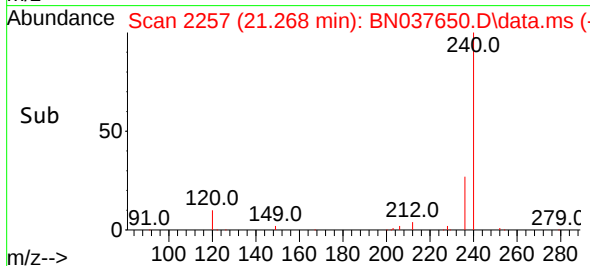
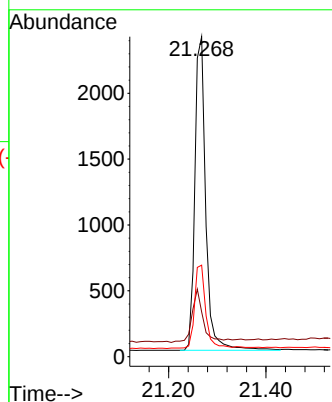
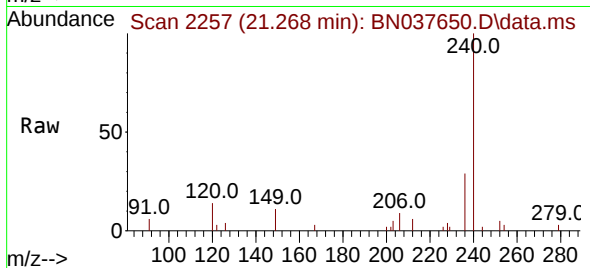
Tgt Ion:240 Resp: 3707

Ion Ratio Lower Upper

240 100

120 14.0 8.9 13.3#

236 28.6 22.6 33.8



#30

Pyrene

Concen: 0.032 ng

RT: 19.503 min Scan# 2008

Delta R.T. -0.009 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

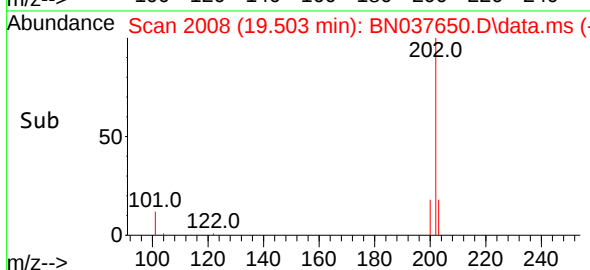
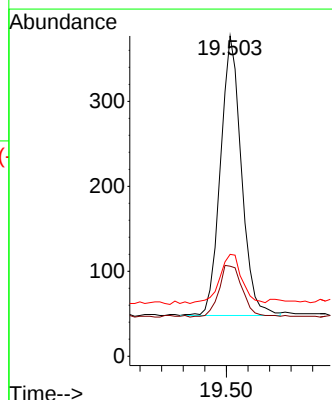
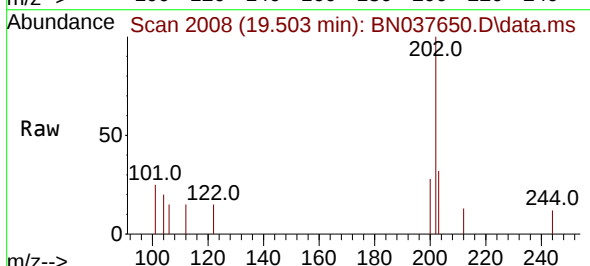
Tgt Ion:202 Resp: 443

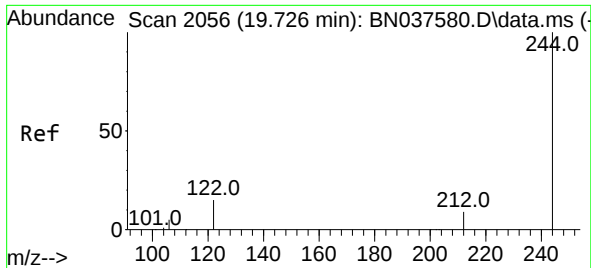
Ion Ratio Lower Upper

202 100

200 21.4 16.6 25.0

203 18.7 14.3 21.5

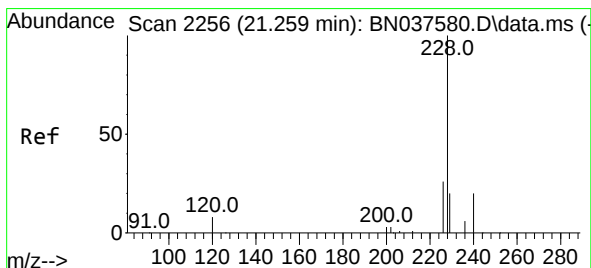
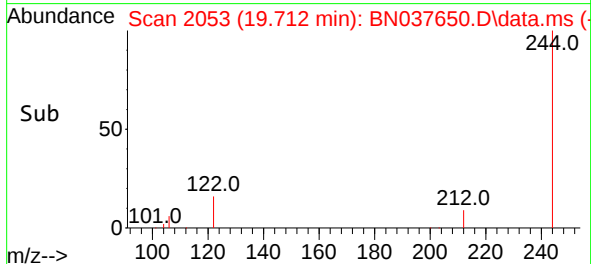
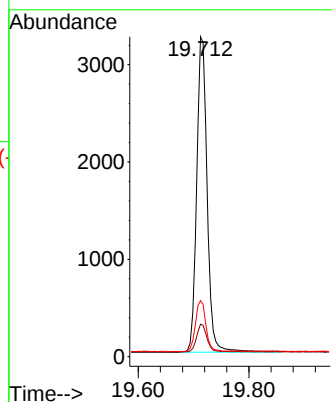
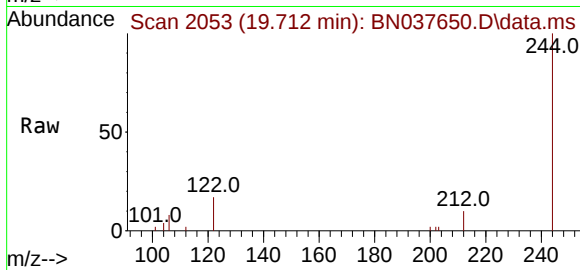




#31
Terphenyl-d14
Concen: 0.561 ng
RT: 19.712 min Scan# 2053
Delta R.T. -0.014 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

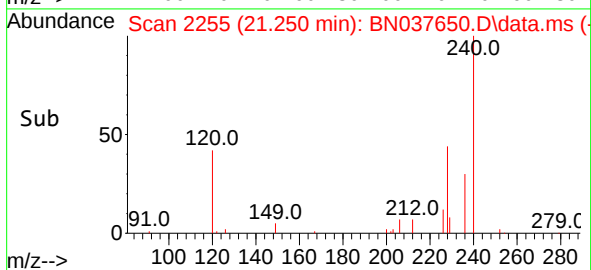
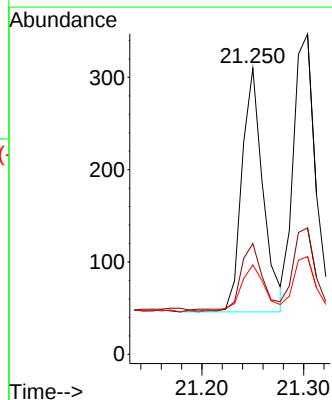
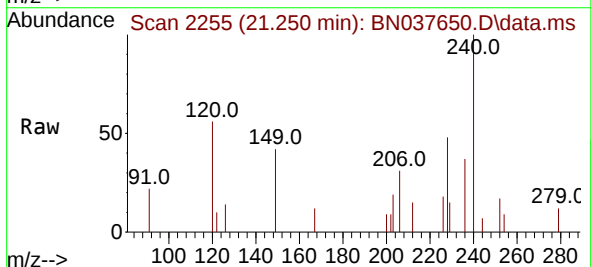
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

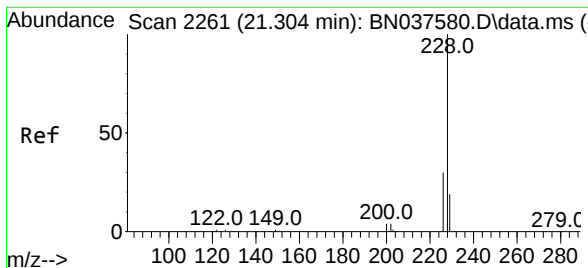
Tgt Ion:244 Resp: 4277
Ion Ratio Lower Upper
244 100
212 10.1 8.2 12.2
122 17.5 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.031 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:228 Resp: 380
Ion Ratio Lower Upper
228 100
226 38.7 21.5 32.3#
229 31.3 16.5 24.7#





#33

Chrysene

Concen: 0.035 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821

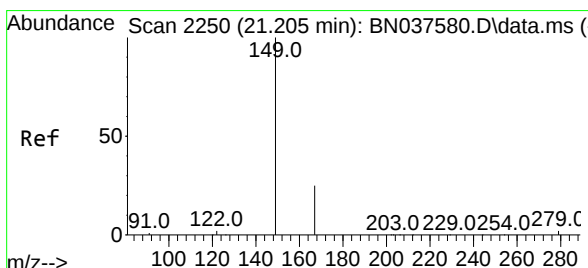
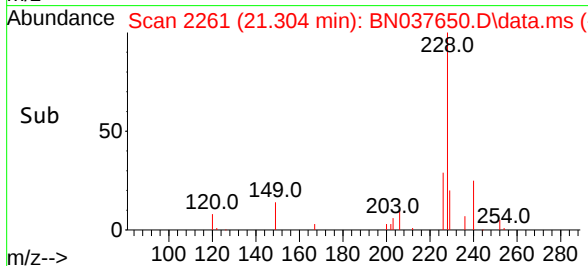
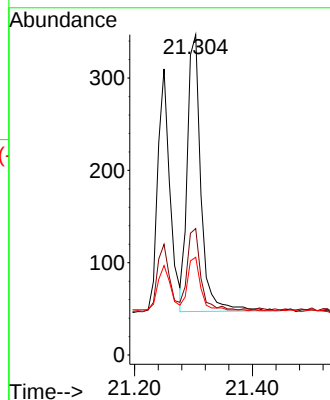
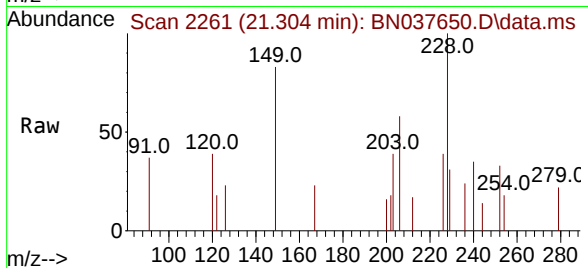
Tgt Ion:228 Resp: 480

Ion Ratio Lower Upper

228 100

226 39.5 24.9 37.3#

229 30.5 15.8 23.8#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.094 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

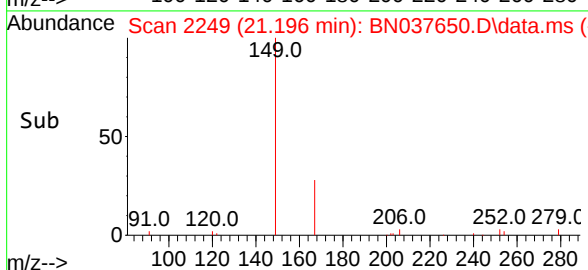
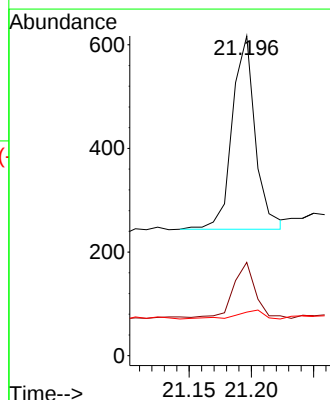
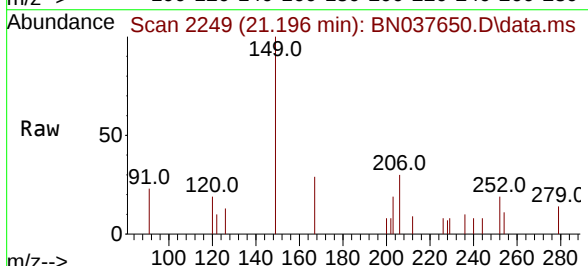
Tgt Ion:149 Resp: 479

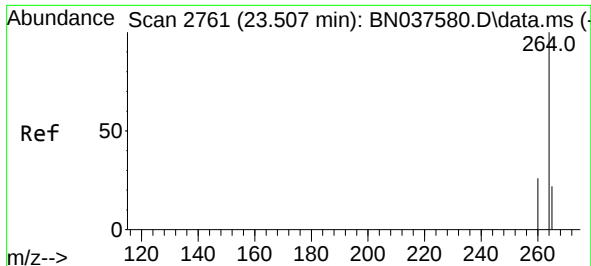
Ion Ratio Lower Upper

149 100

167 27.8 20.5 30.7

279 5.2 2.6 4.0#





#35
Perylene-d12

Concen: 0.400 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250821

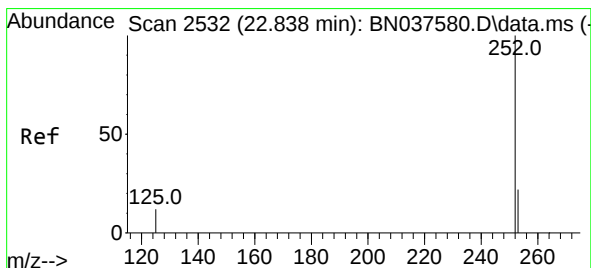
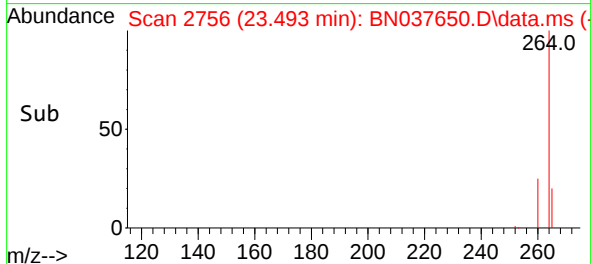
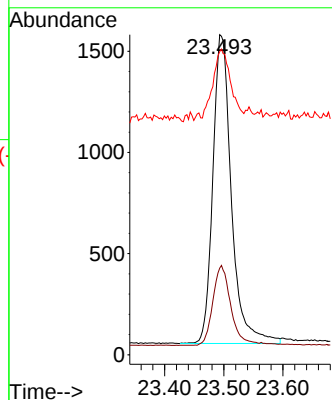
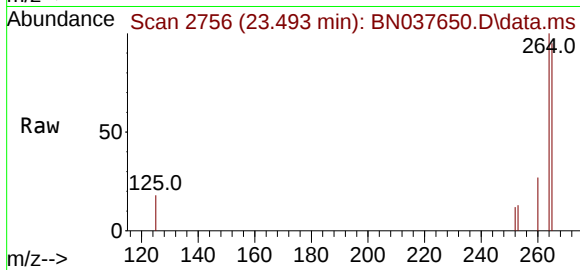
Tgt Ion:264 Resp: 3325

Ion Ratio Lower Upper

264 100

260 27.1 21.6 32.4

265 94.7 48.2 72.4#



#37

Benzo(b)fluoranthene

Concen: 0.035 ng

RT: 22.826 min Scan# 2528

Delta R.T. -0.012 min

Lab File: BN037650.D

Acq: 28 Aug 2025 10:42

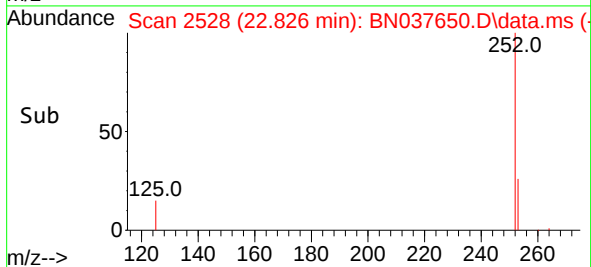
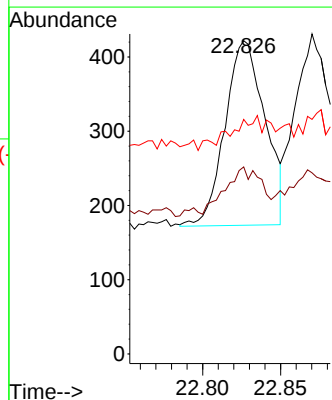
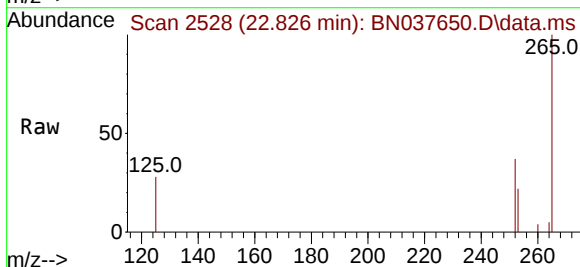
Tgt Ion:252 Resp: 445

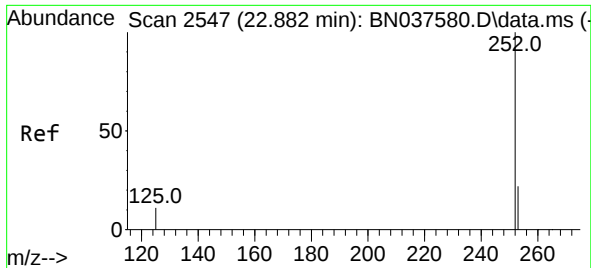
Ion Ratio Lower Upper

252 100

253 59.7 20.0 30.0#

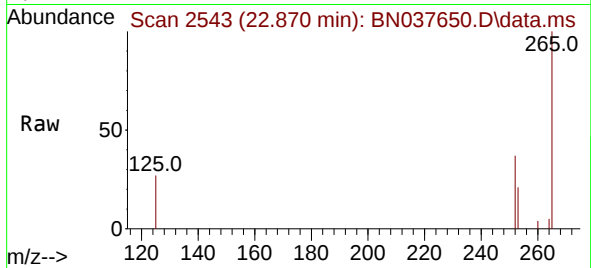
125 74.9 13.8 20.6#



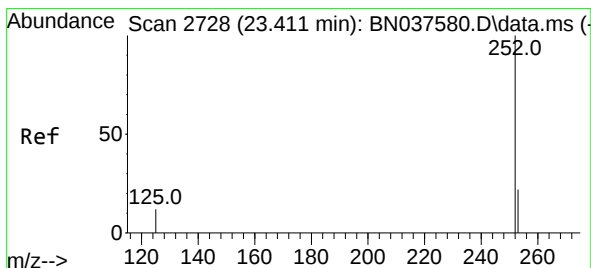
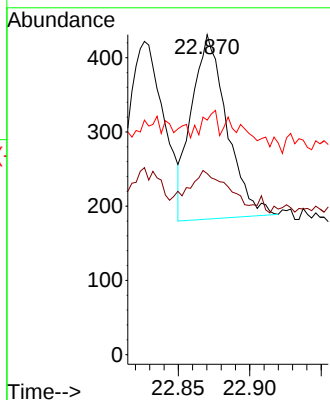


#38
Benzo(k)fluoranthene
Concen: 0.030 ng
RT: 22.870 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

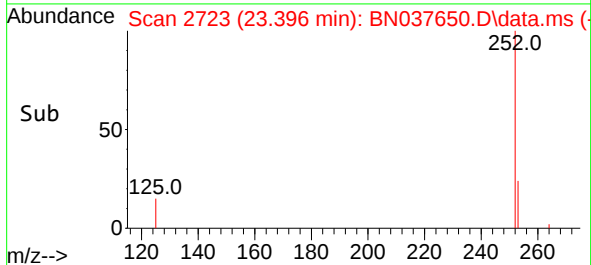
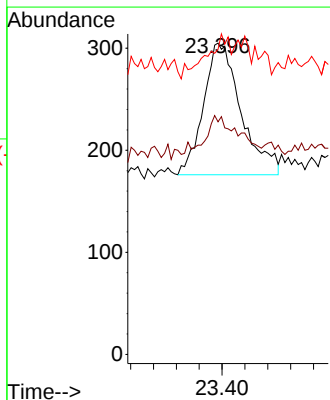
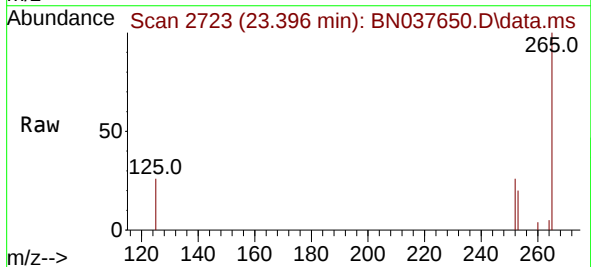


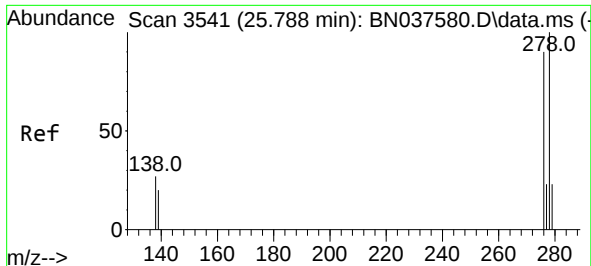
Tgt Ion:252 Resp: 427
Ion Ratio Lower Upper
252 100
253 56.6 19.9 29.9#
125 73.3 15.0 22.6#



#39
Benzo(a)pyrene
Concen: 0.028 ng
RT: 23.396 min Scan# 2723
Delta R.T. -0.014 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:252 Resp: 295
Ion Ratio Lower Upper
252 100
253 74.8 21.6 32.4#
125 98.0 16.8 25.2#

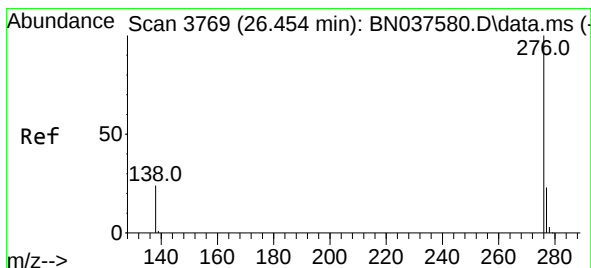
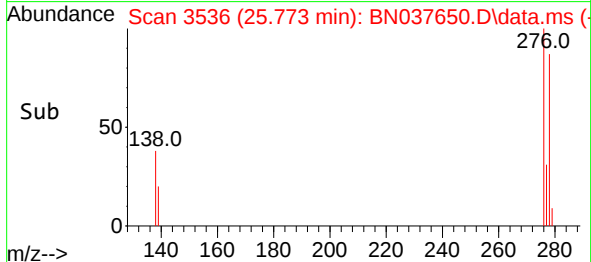
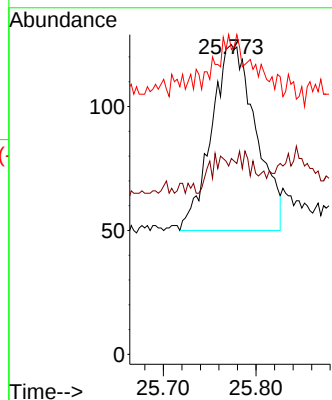
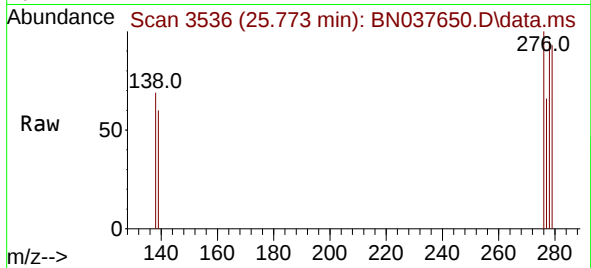




#40
Dibenzo(a,h)anthracene
Concen: 0.023 ng
RT: 25.773 min Scan# 31
Delta R.T. -0.014 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

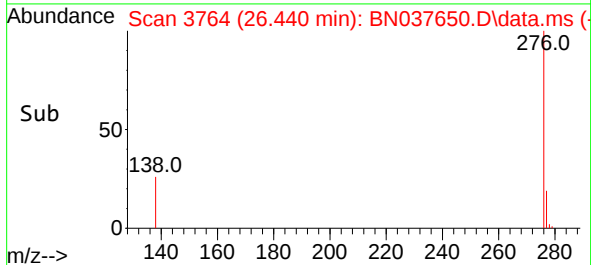
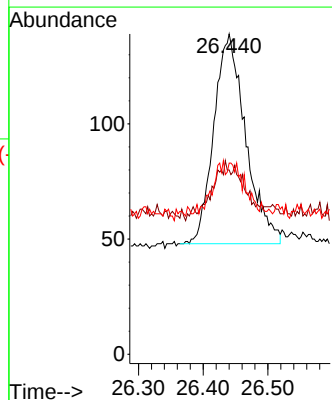
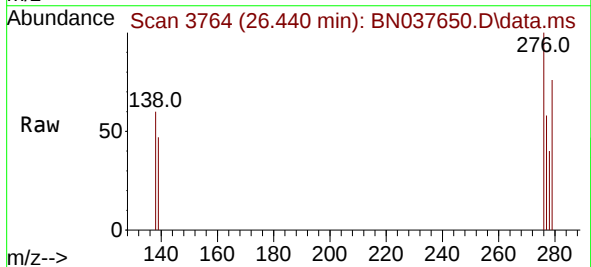
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250821

Tgt Ion:278 Resp: 251
Ion Ratio Lower Upper
278 100
139 63.2 18.3 27.5#
279 98.4 22.5 33.7#



#41
Benzo(g,h,i)perylene
Concen: 0.027 ng
RT: 26.440 min Scan# 3764
Delta R.T. -0.014 min
Lab File: BN037650.D
Acq: 28 Aug 2025 10:42

Tgt Ion:276 Resp: 311
Ion Ratio Lower Upper
276 100
277 57.6 21.0 31.4#
138 59.7 21.7 32.5#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037652.D
 Acq On : 28 Aug 2025 11:54
 Operator : RC/JU
 Sample : PB169421BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169421BS

Quant Time: Aug 28 12:22:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

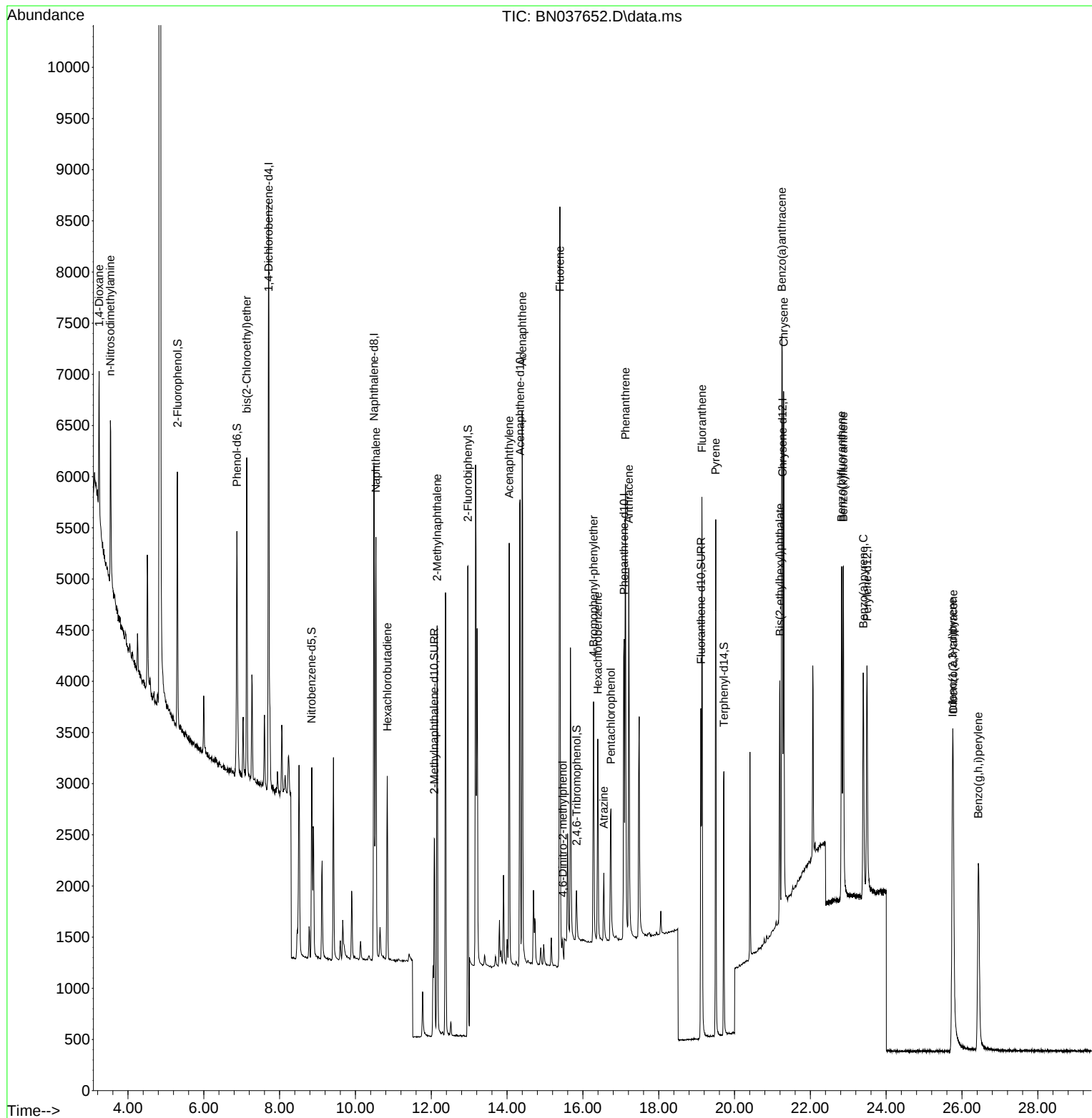
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2769	0.400	ng	0.00
7) Naphthalene-d8	10.488	136	6405	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2792	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4991	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3590	0.400	ng	0.00
35) Perylene-d12	23.496	264	3204	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1994	0.318	ng	0.00
5) Phenol-d6	6.872	99	2198	0.291	ng	0.00
8) Nitrobenzene-d5	8.843	82	1607	0.356	ng	-0.01
11) 2-Methylnaphthalene-d10	12.081	152	2833	0.325	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	372	0.304	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	6111	0.378	ng	0.00
27) Fluoranthene-d10	19.113	212	3719	0.283	ng	0.00
31) Terphenyl-d14	19.717	244	2658	0.360	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	799	0.302	ng	# 75
3) n-Nitrosodimethylamine	3.536	42	1167	0.345	ng	97
6) bis(2-Chloroethyl)ether	7.132	93	2254	0.331	ng	96
9) Naphthalene	10.541	128	5529	0.324	ng	99
10) Hexachlorobutadiene	10.840	225	1461	0.351	ng	# 100
12) 2-Methylnaphthalene	12.157	142	2982	0.279	ng	99
16) Acenaphthylene	14.056	152	4487	0.359	ng	100
17) Acenaphthene	14.398	154	2726	0.320	ng	99
18) Fluorene	15.393	166	3517	0.316	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	194	0.395	ng	94
21) 4-Bromophenyl-phenylether	16.280	248	1025	0.327	ng	# 88
22) Hexachlorobenzene	16.391	284	1647	0.370	ng	97
23) Atrazine	16.553	200	646	0.364	ng	95
24) Pentachlorophenol	16.739	266	833	0.533	ng	99
25) Phenanthrene	17.124	178	4916	0.324	ng	99
26) Anthracene	17.211	178	4311	0.321	ng	100
28) Fluoranthene	19.141	202	4833	0.277	ng	99
30) Pyrene	19.503	202	4645	0.346	ng	99
32) Benzo(a)anthracene	21.250	228	4093	0.341	ng	99
33) Chrysene	21.295	228	4542	0.340	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	1759	0.355	ng	99
36) Indeno(1,2,3-cd)pyrene	25.750	276	4546	0.337	ng	99
37) Benzo(b)fluoranthene	22.824	252	4267	0.351	ng	94
38) Benzo(k)fluoranthene	22.867	252	4412	0.322	ng	94
39) Benzo(a)pyrene	23.397	252	3577	0.355	ng	# 91
40) Dibenzo(a,h)anthracene	25.768	278	3387	0.323	ng	95
41) Benzo(g,h,i)perylene	26.431	276	4128	0.374	ng	97

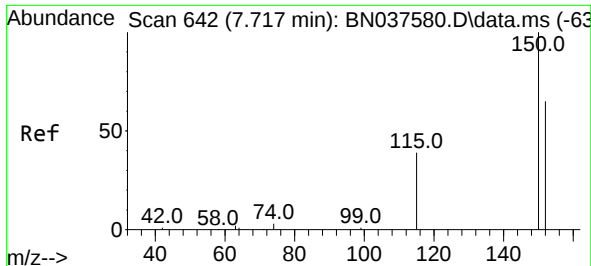
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037652.D
Acq On : 28 Aug 2025 11:54
Operator : RC/JU
Sample : PB169421BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169421BS

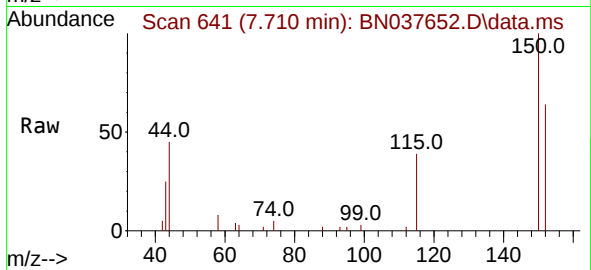
Quant Time: Aug 28 12:22:50 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



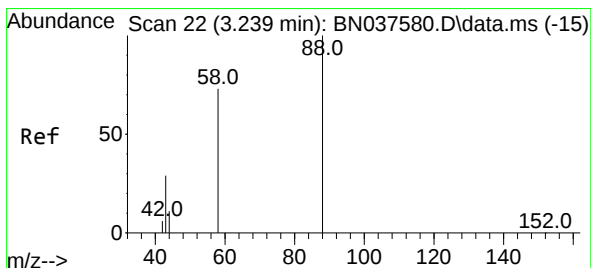
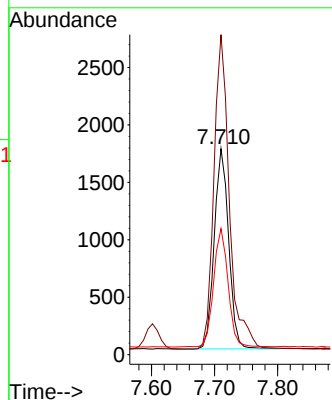
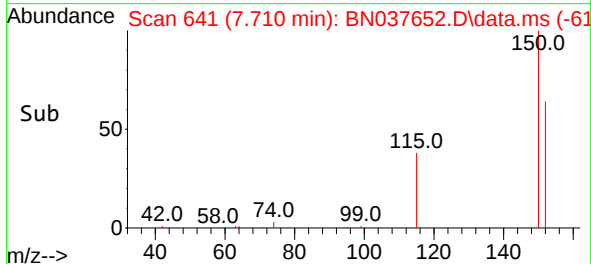


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Instrument :
BNA_N
ClientSampleId :
PB169421BS

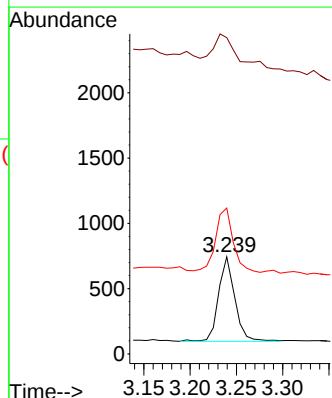
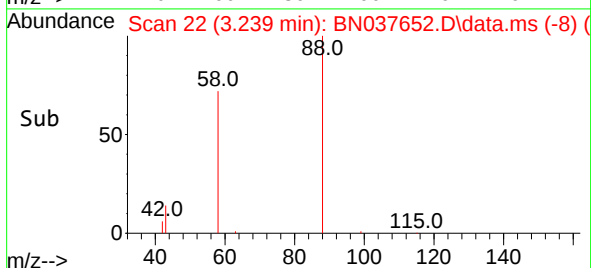
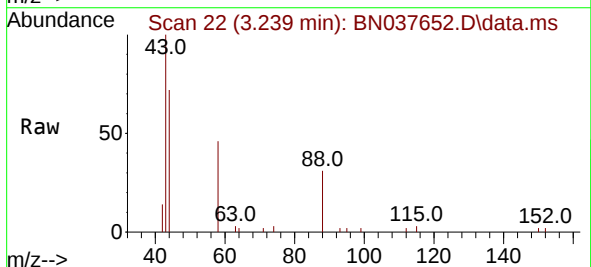


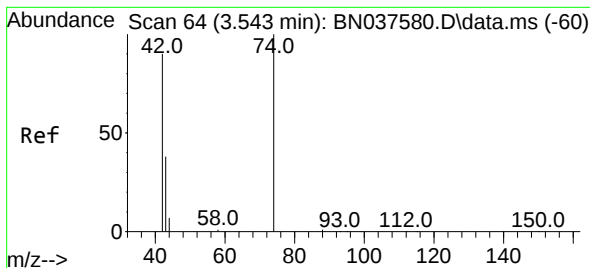
Tgt Ion:152 Resp: 2769
Ion Ratio Lower Upper
152 100
150 155.5 122.2 183.4
115 61.2 49.8 74.6



#2
1,4-Dioxane
Concen: 0.302 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion: 88 Resp: 799
Ion Ratio Lower Upper
88 100
43 72.1 25.8 38.6#
58 81.7 61.2 91.8





#3

n-Nitrosodimethylamine

Concen: 0.345 ng

RT: 3.536 min Scan# 61

Delta R.T. -0.007 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

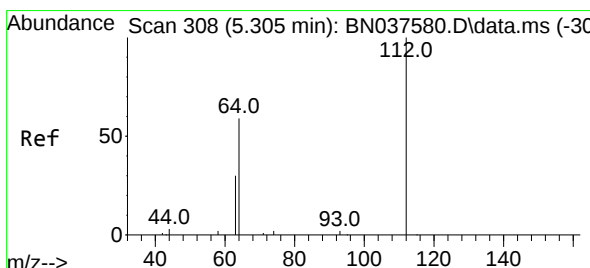
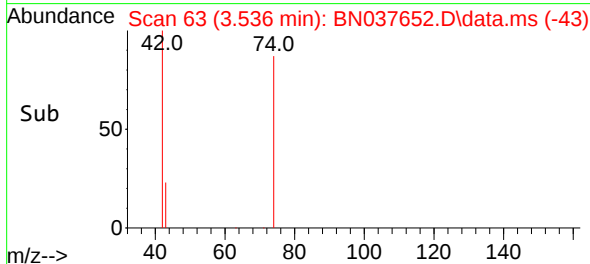
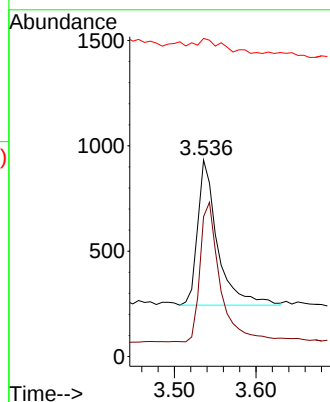
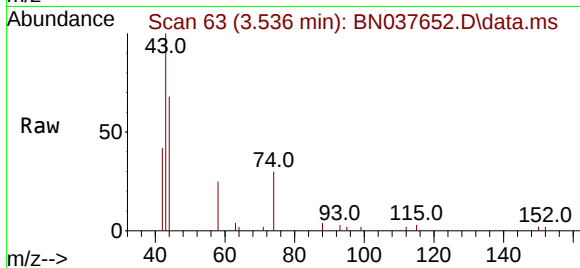
Tgt Ion: 42 Resp: 1167

Ion Ratio Lower Upper

42 100

74 99.9 82.0 123.0

44 11.1 7.9 11.9



#4

2-Fluorophenol

Concen: 0.318 ng

RT: 5.305 min Scan# 308

Delta R.T. 0.000 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

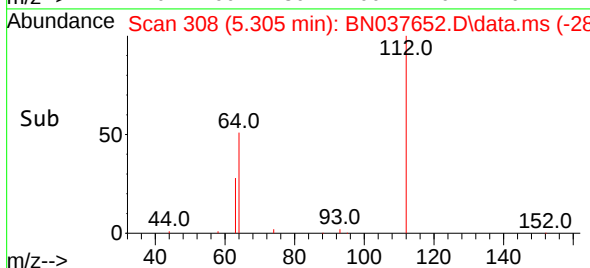
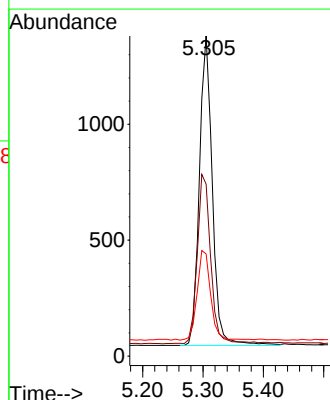
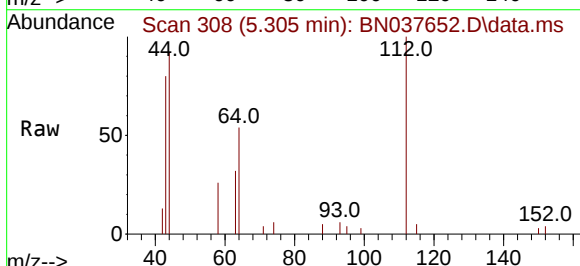
Tgt Ion: 112 Resp: 1994

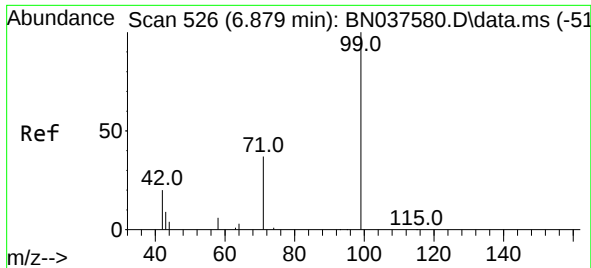
Ion Ratio Lower Upper

112 100

64 57.0 44.9 67.3

63 30.1 23.4 35.2

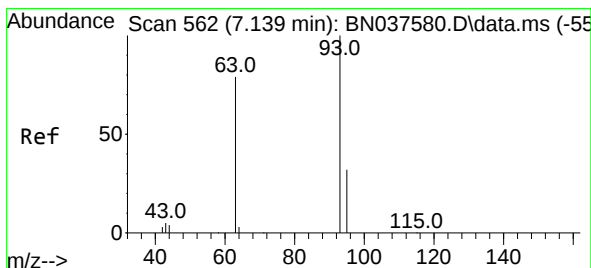
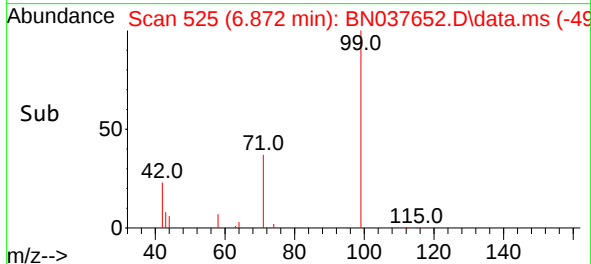
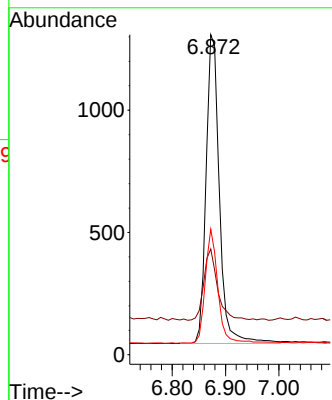
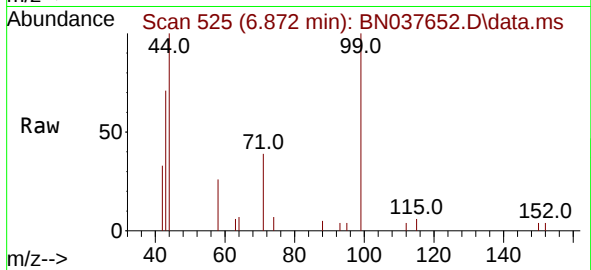




#5
Phenol-d6
Concen: 0.291 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

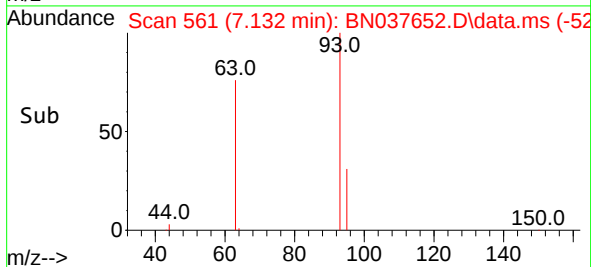
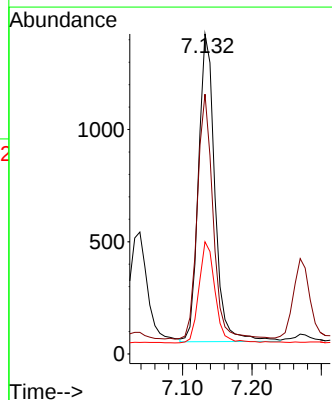
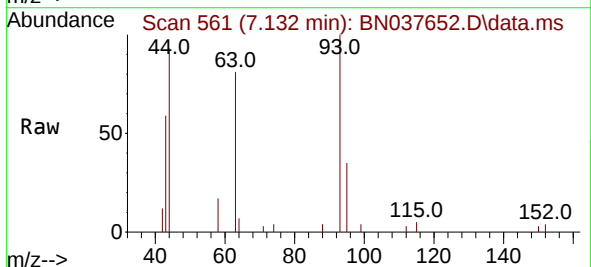
Instrument :
BNA_N
ClientSampleId :
PB169421BS

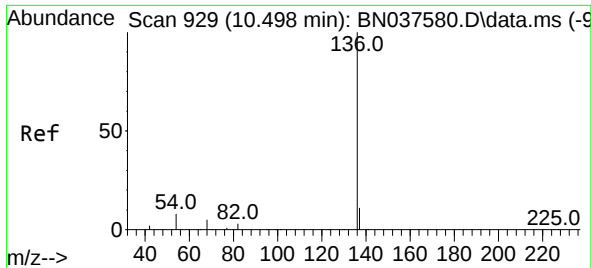
Tgt Ion:	99	Resp:	2198
Ion	Ratio	Lower	Upper
99	100		
42	23.7	18.5	27.7
71	35.0	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.331 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:	93	Resp:	2254
Ion	Ratio	Lower	Upper
93	100		
63	76.4	58.0	87.0
95	32.3	24.9	37.3

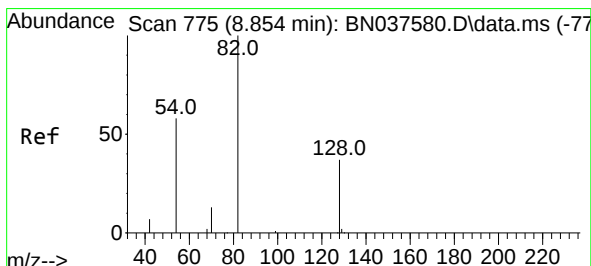
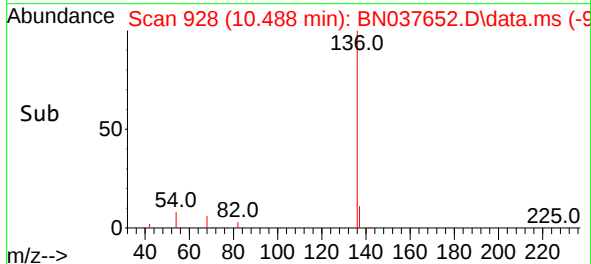
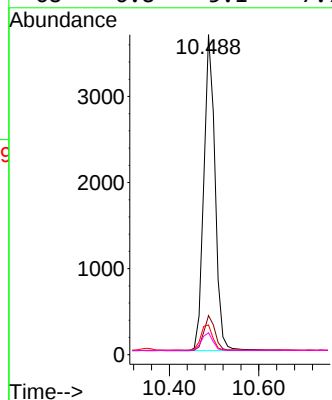
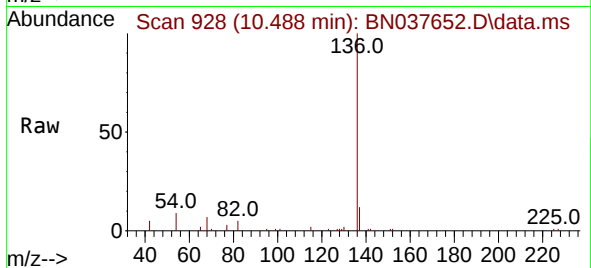




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

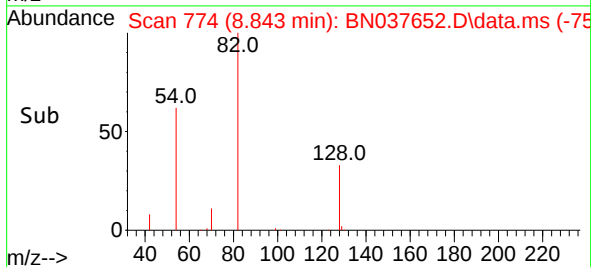
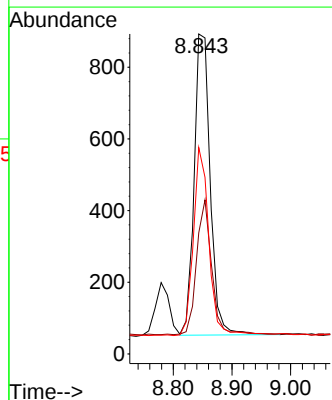
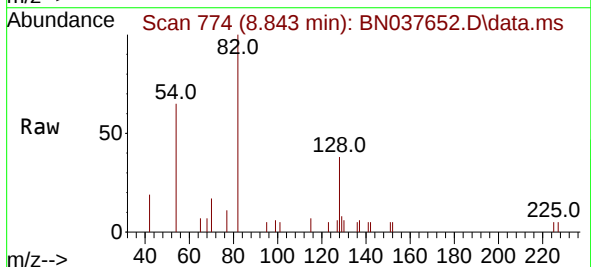
Instrument :
BNA_N
ClientSampleId :
PB169421BS

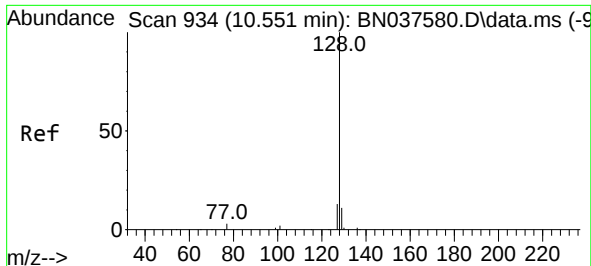
Tgt Ion:	136	Resp:	6405
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	9.3	7.3	10.9
68	6.8	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.356 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:	82	Resp:	1607
Ion	Ratio	Lower	Upper
82	100		
128	37.8	32.6	48.8
54	64.5	48.9	73.3

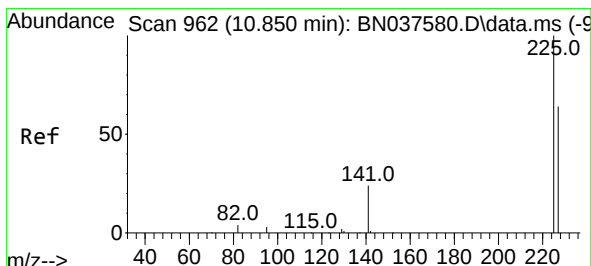
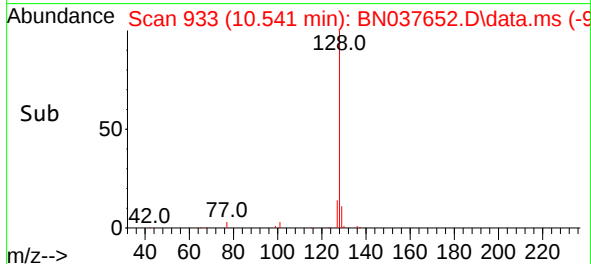
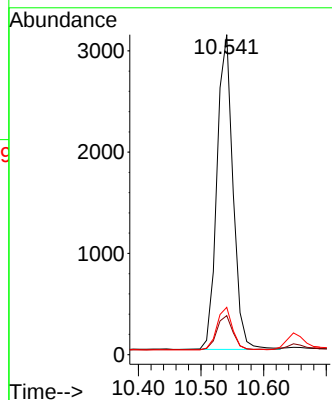
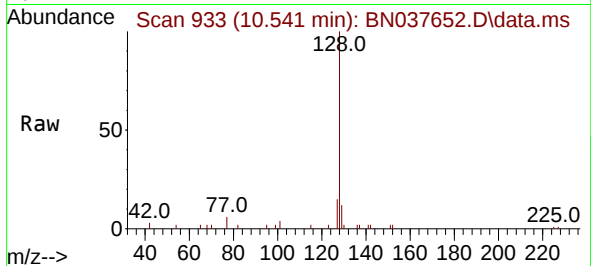




#9
Naphthalene
Concen: 0.324 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

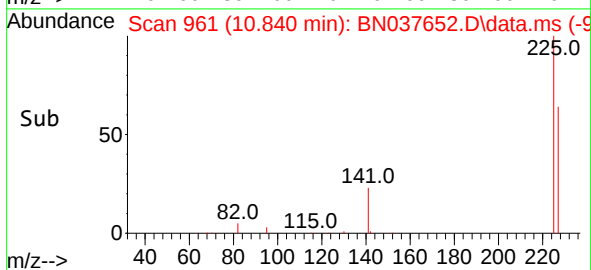
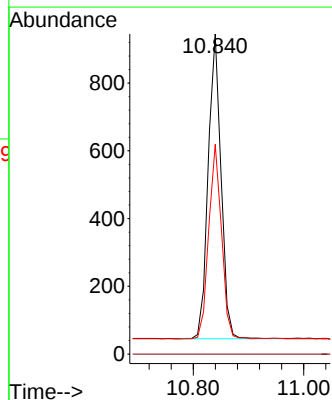
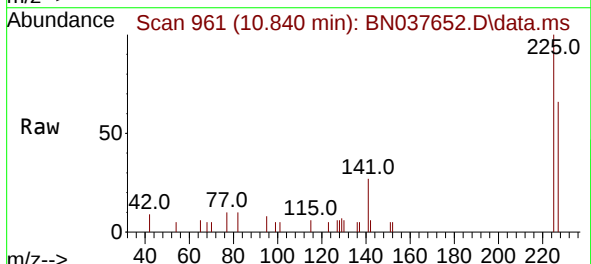
Instrument :
BNA_N
ClientSampleId :
PB169421BS

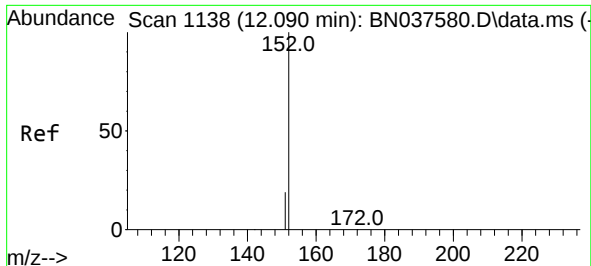
Tgt Ion:	128	Resp:	5529
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.8	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.351 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:	225	Resp:	1461
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	50.8	76.2

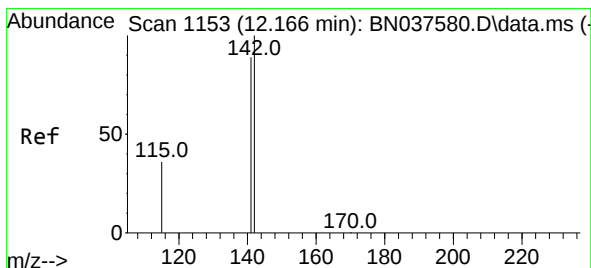
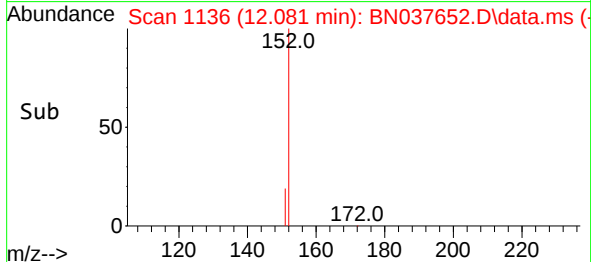
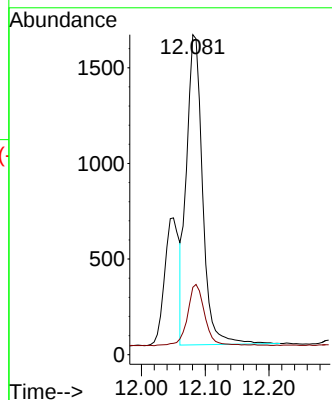
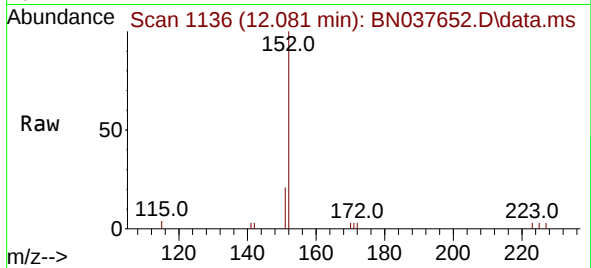




#11
2-Methylnaphthalene-d10
Concen: 0.325 ng
RT: 12.081 min Scan# 1136
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

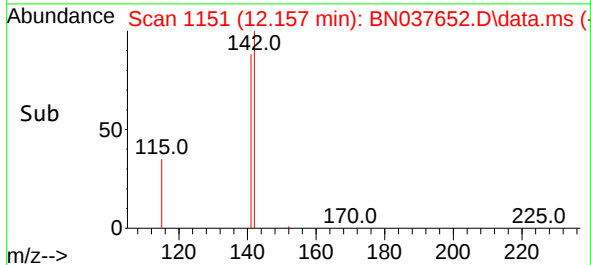
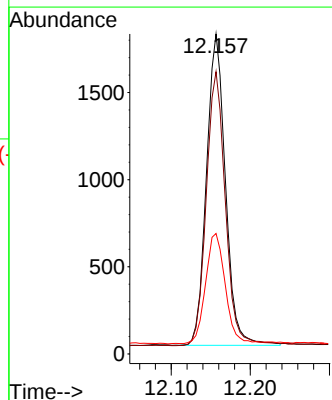
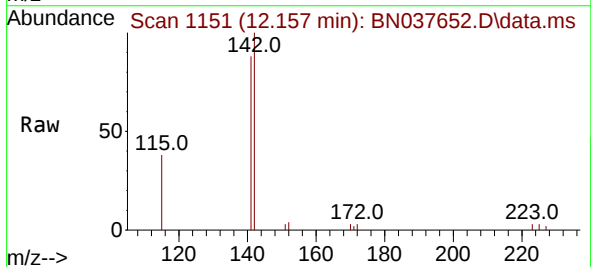
Instrument :
BNA_N
ClientSampleId :
PB169421BS

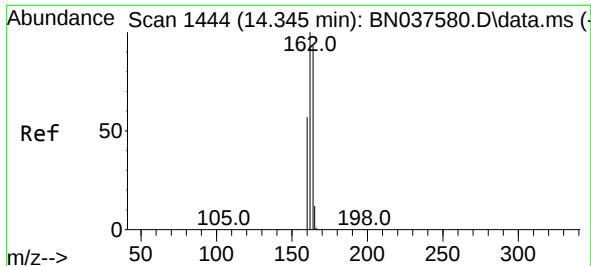
Tgt Ion:152 Resp: 2833
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.279 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:142 Resp: 2982
Ion Ratio Lower Upper
142 100
141 88.2 71.4 107.0
115 37.6 30.2 45.4

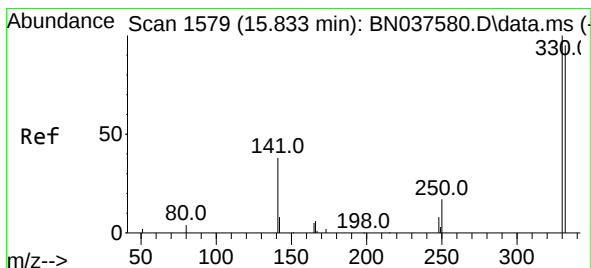
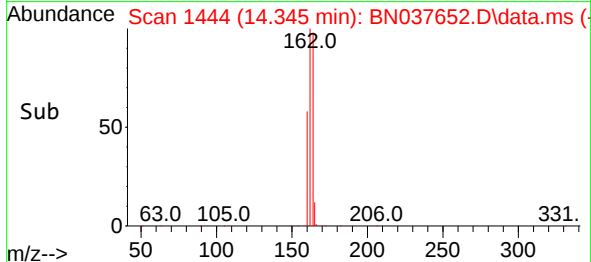
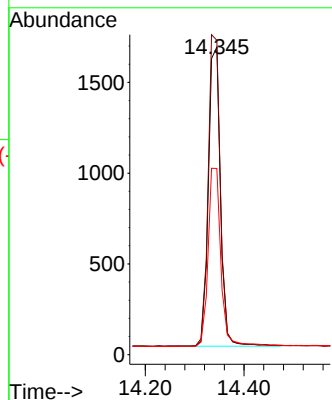
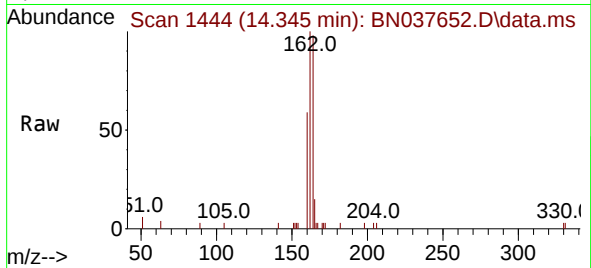




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

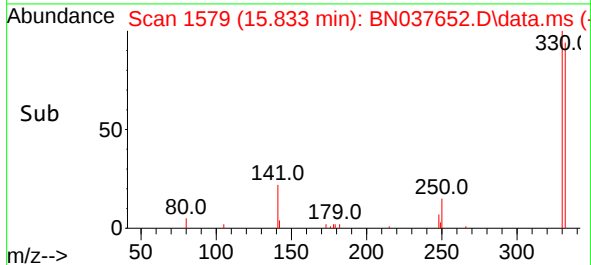
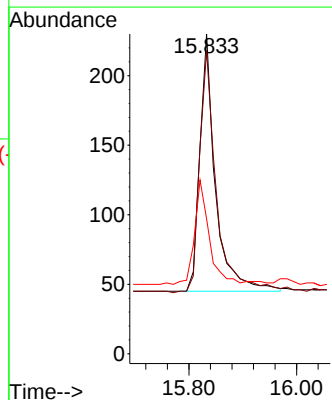
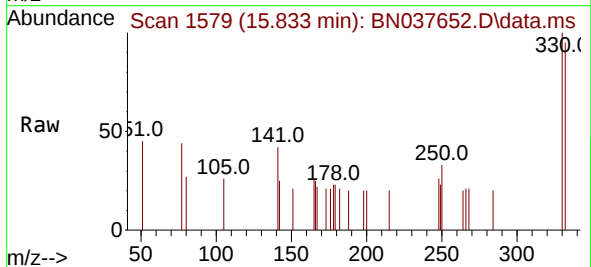
Instrument :
BNA_N
ClientSampleId :
PB169421BS

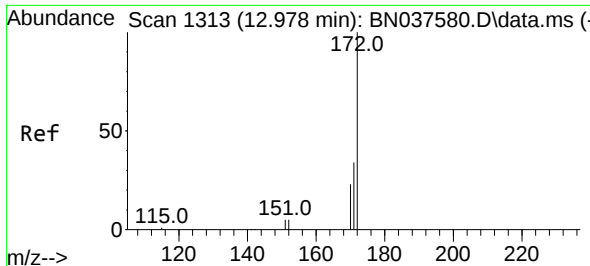
Tgt Ion:164 Resp: 2792
Ion Ratio Lower Upper
164 100
162 102.2 85.5 128.3
160 60.6 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.304 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:330 Resp: 372
Ion Ratio Lower Upper
330 100
332 102.7 77.4 116.0
141 38.2 30.9 46.3

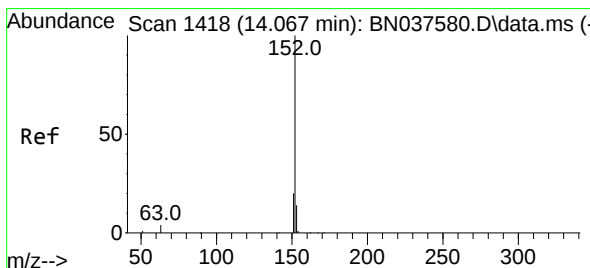
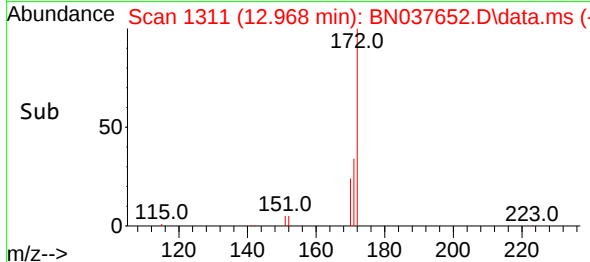
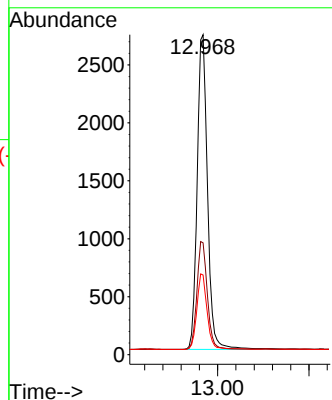
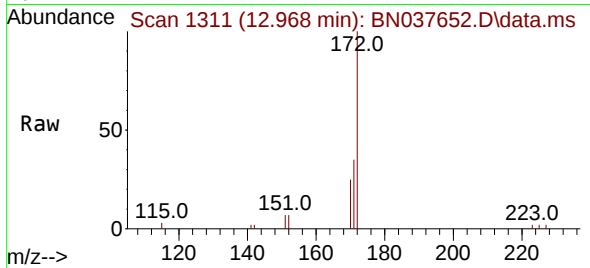




#15
2-Fluorobiphenyl
Concen: 0.378 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

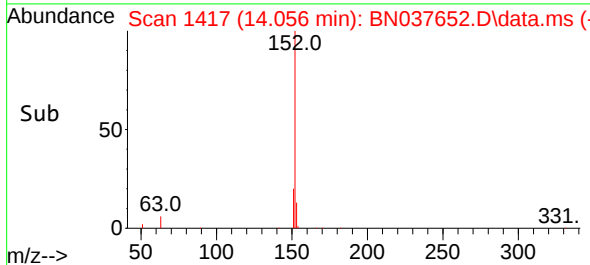
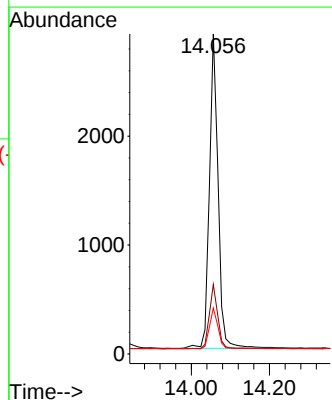
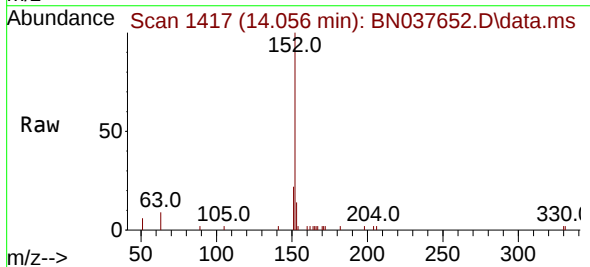
Instrument :
BNA_N
ClientSampleId :
PB169421BS

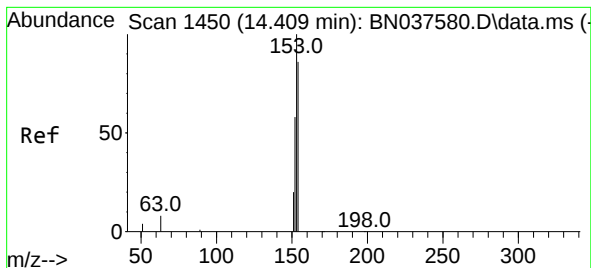
Tgt Ion:	172	Resp:	6111
Ion Ratio	Lower	Upper	
172	100		
171	35.0	28.2	42.4
170	24.9	19.2	28.8



#16
Acenaphthylene
Concen: 0.359 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.010 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:	152	Resp:	4487
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.1	24.1
153	13.3	10.7	16.1





#17

Acenaphthene

Concen: 0.320 ng

RT: 14.398 min Scan# 1449

Delta R.T. -0.010 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

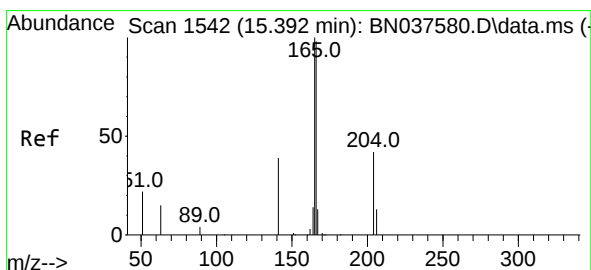
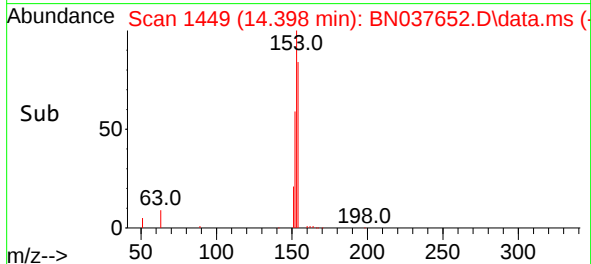
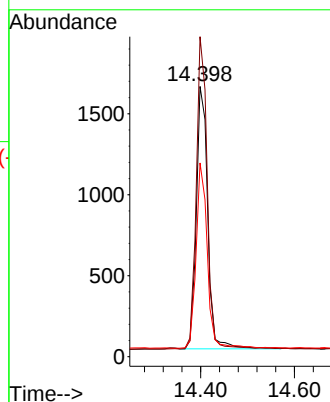
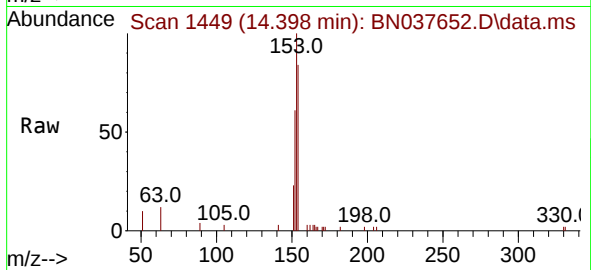
Tgt Ion:154 Resp: 2726

Ion Ratio Lower Upper

154 100

153 114.5 90.6 135.8

152 69.2 54.9 82.3



#18

Fluorene

Concen: 0.316 ng

RT: 15.393 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

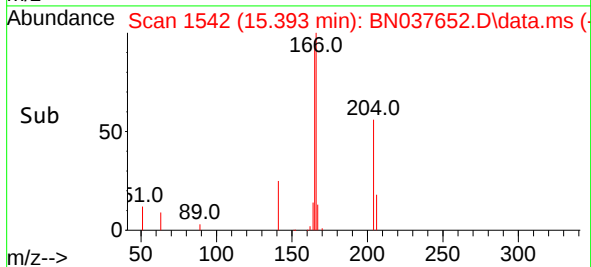
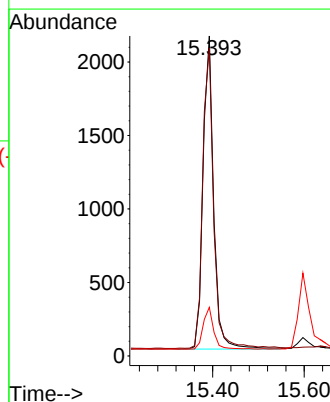
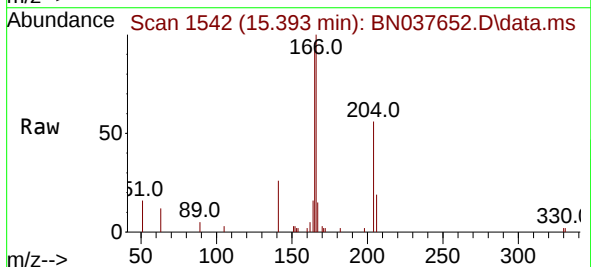
Tgt Ion:166 Resp: 3517

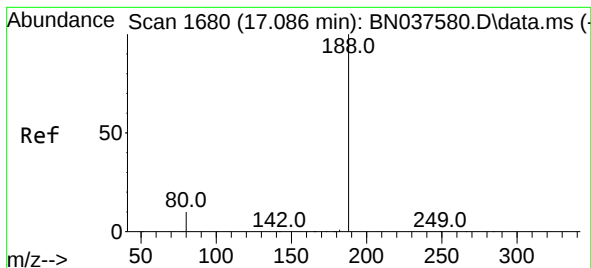
Ion Ratio Lower Upper

166 100

165 98.5 78.9 118.3

167 13.1 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

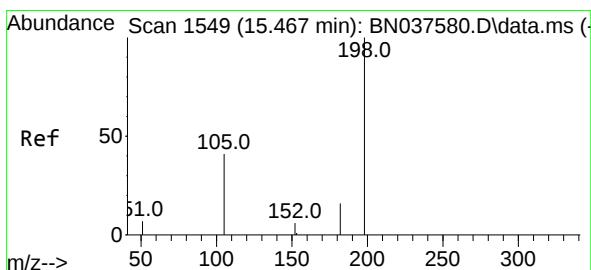
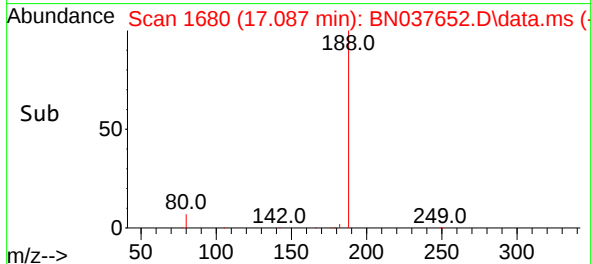
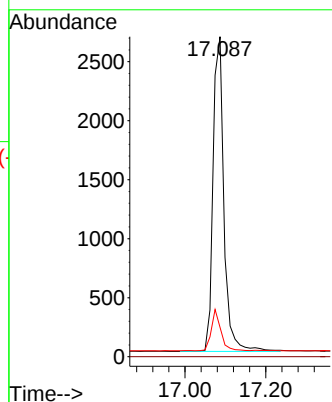
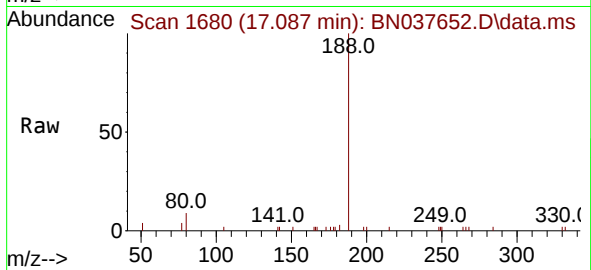
Tgt Ion:188 Resp: 4991

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.395 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

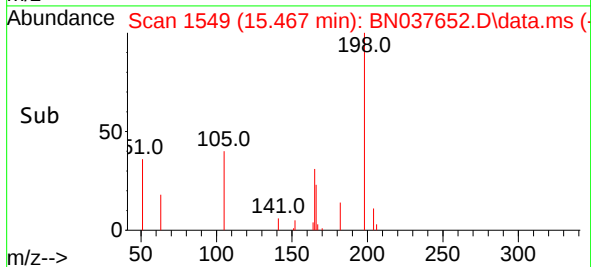
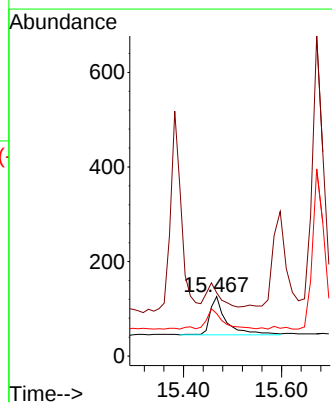
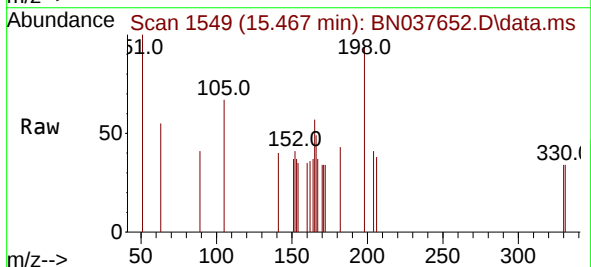
Tgt Ion:198 Resp: 194

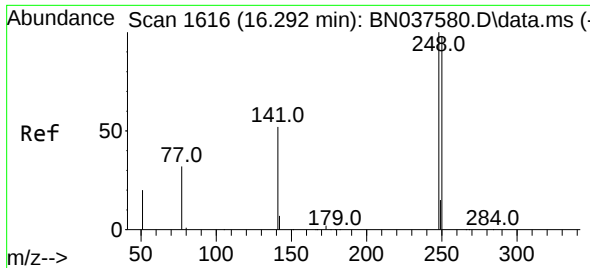
Ion Ratio Lower Upper

198 100

51 106.3 81.0 121.6

105 71.4 52.5 78.7

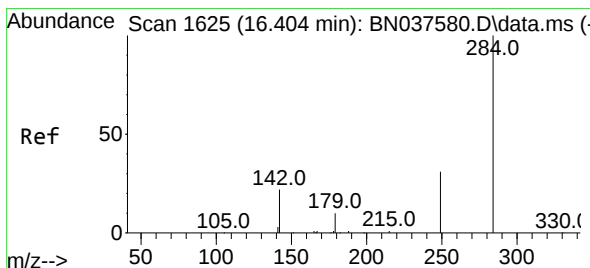
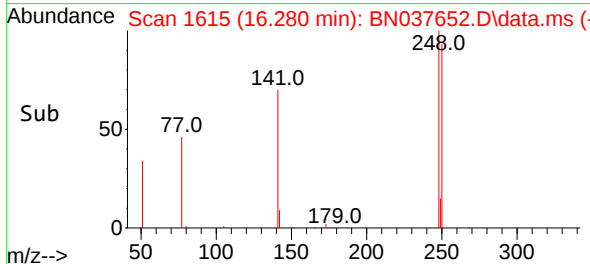
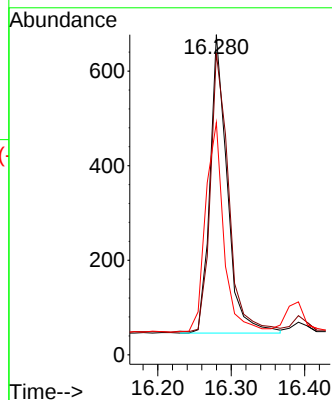
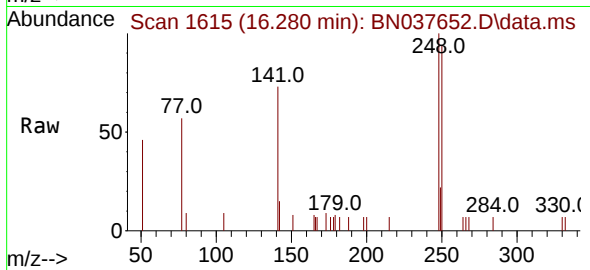




#21
4-Bromophenyl-phenylether
Concen: 0.327 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

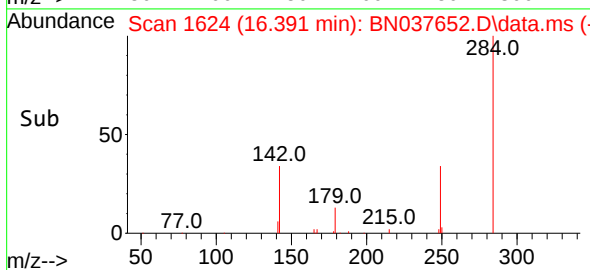
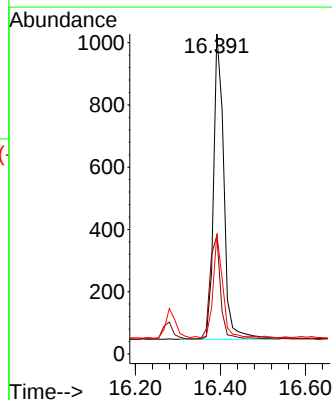
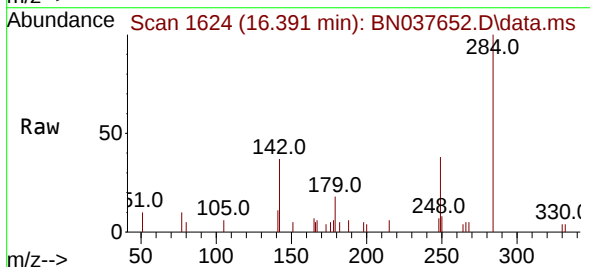
Instrument :
BNA_N
ClientSampleId :
PB169421BS

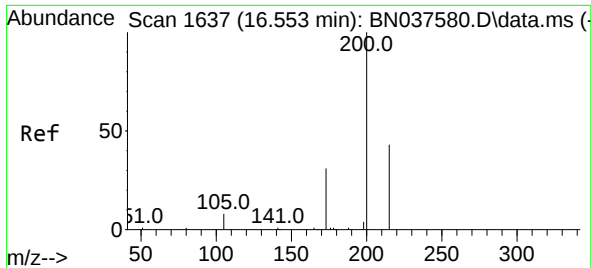
Tgt Ion:248 Resp: 1025
Ion Ratio Lower Upper
248 100
250 94.2 78.6 118.0
141 72.5 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:284 Resp: 1647
Ion Ratio Lower Upper
284 100
142 35.0 29.8 44.6
249 31.3 26.0 39.0

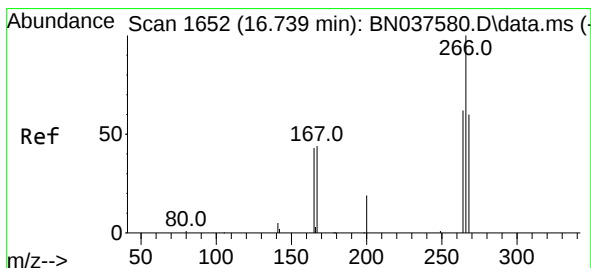
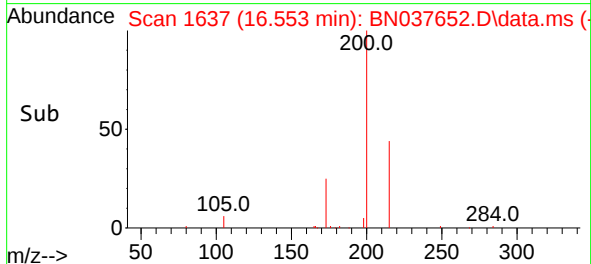
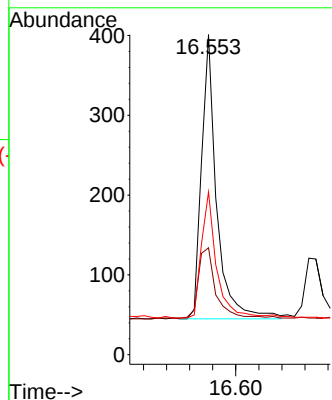
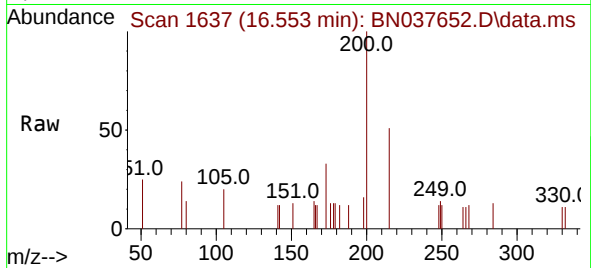




#23
Atrazine
Concen: 0.364 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

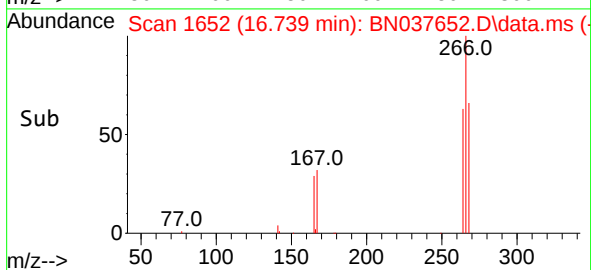
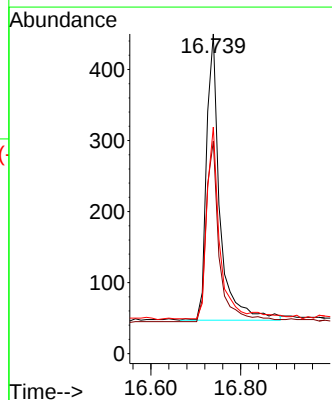
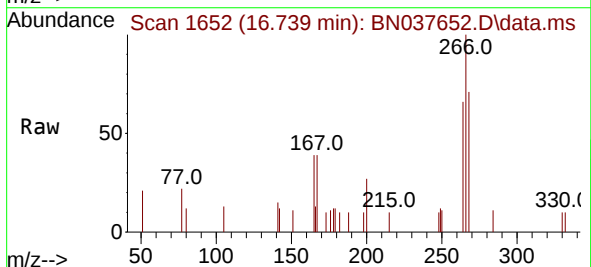
Instrument :
BNA_N
ClientSampleId :
PB169421BS

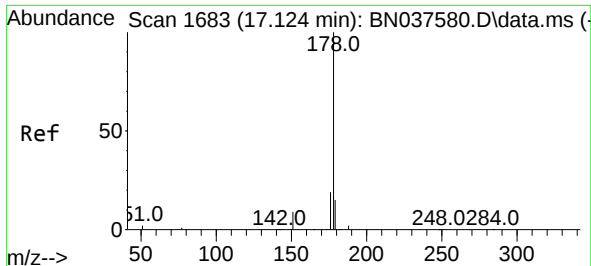
Tgt Ion:200 Resp: 646
Ion Ratio Lower Upper
200 100
173 33.4 31.0 46.4
215 50.9 39.4 59.0



#24
Pentachlorophenol
Concen: 0.533 ng
RT: 16.739 min Scan# 1652
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:266 Resp: 833
Ion Ratio Lower Upper
266 100
264 61.7 49.6 74.4
268 62.1 49.2 73.8

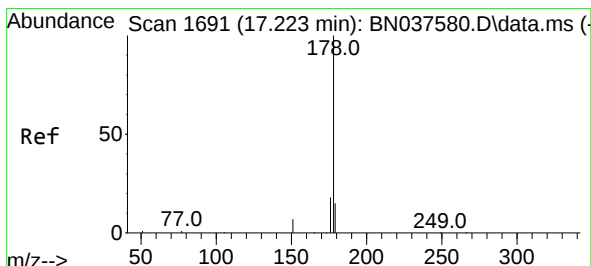
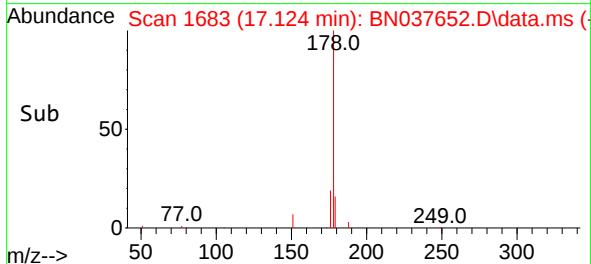
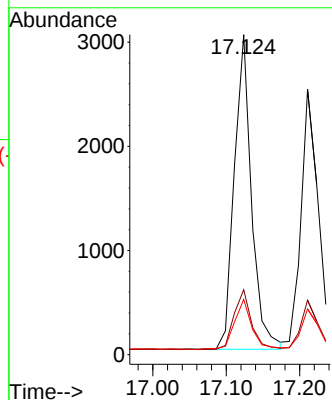
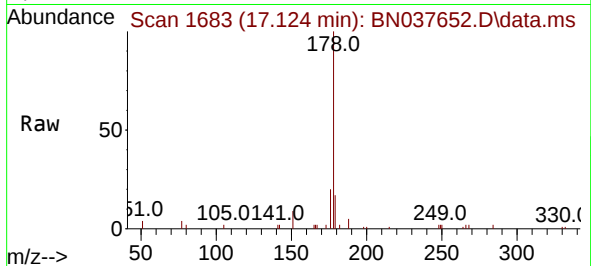




#25
Phenanthrene
Concen: 0.324 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

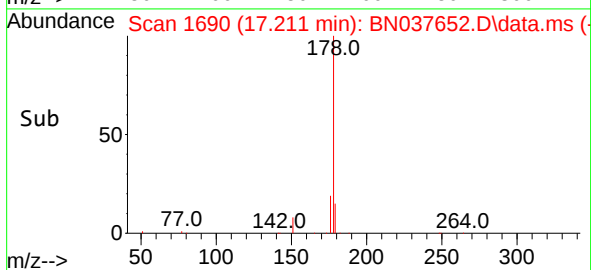
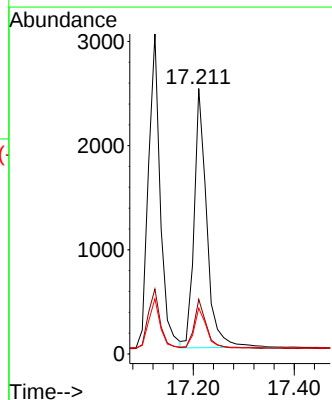
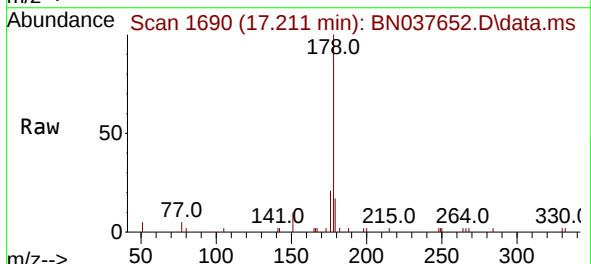
Instrument :
BNA_N
ClientSampleId :
PB169421BS

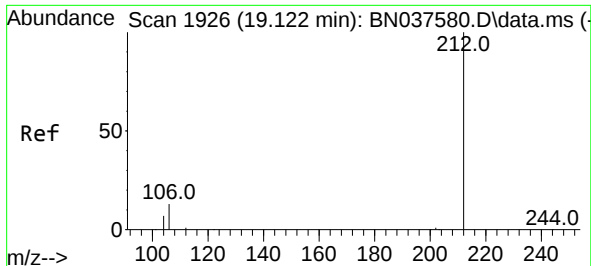
Tgt Ion:178 Resp: 4916
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.8 12.3 18.5



#26
Anthracene
Concen: 0.321 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:178 Resp: 4311
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.7 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.283 ng

RT: 19.113 min Scan# 1924

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

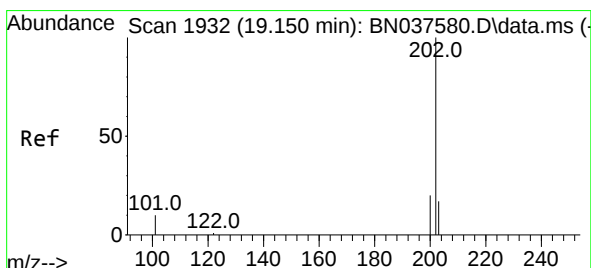
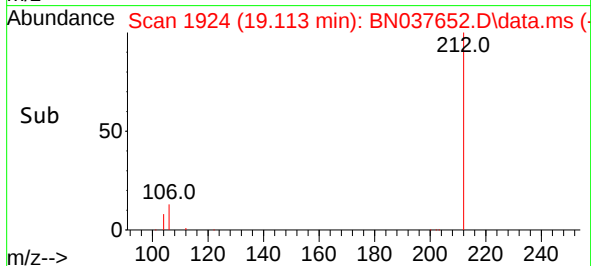
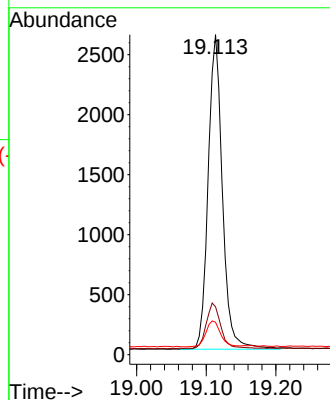
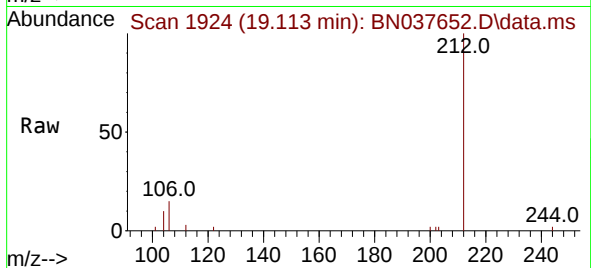
Tgt Ion:212 Resp: 3719

Ion Ratio Lower Upper

212 100

106 15.2 11.5 17.3

104 8.6 6.6 9.8



#28

Fluoranthene

Concen: 0.277 ng

RT: 19.141 min Scan# 1930

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

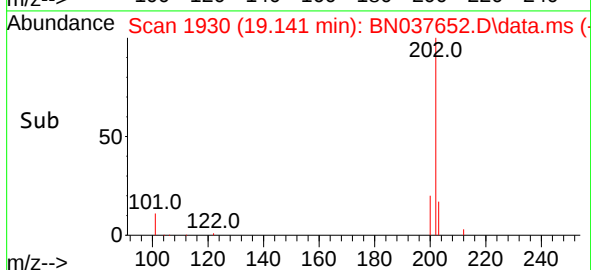
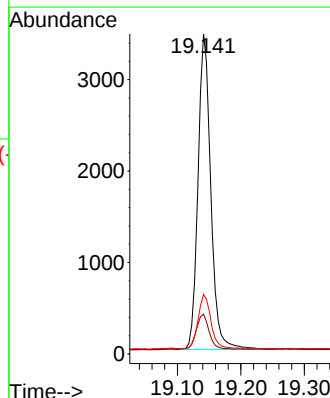
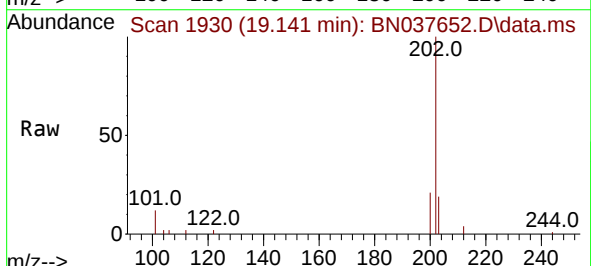
Tgt Ion:202 Resp: 4833

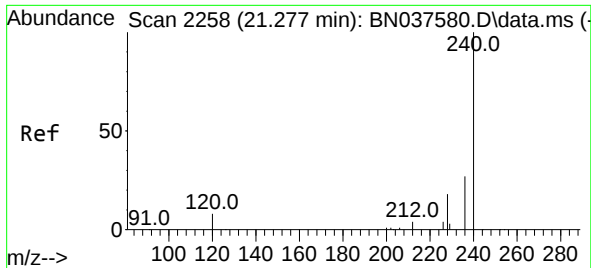
Ion Ratio Lower Upper

202 100

101 10.9 9.0 13.6

203 17.2 13.8 20.8

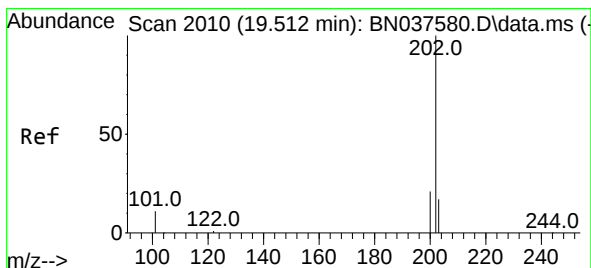
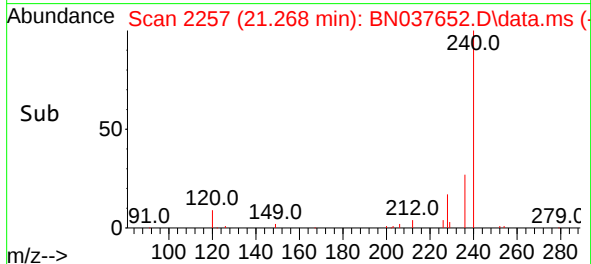
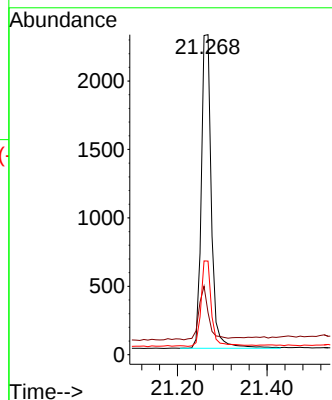
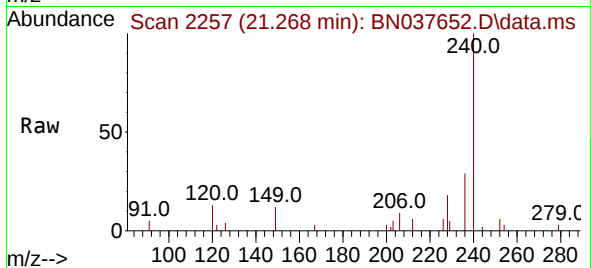




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

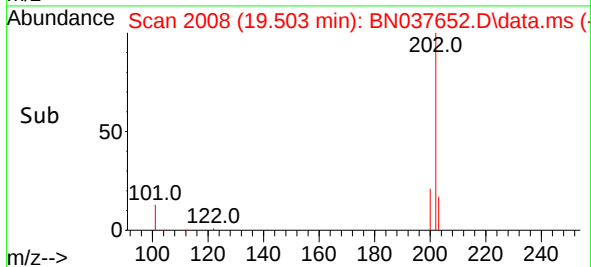
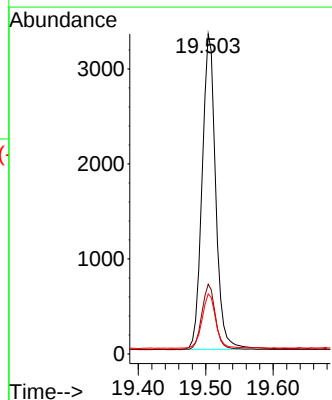
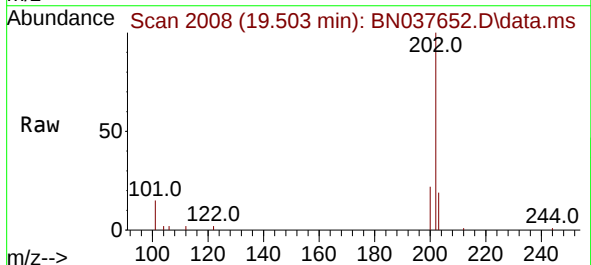
Instrument :
BNA_N
ClientSampleId :
PB169421BS

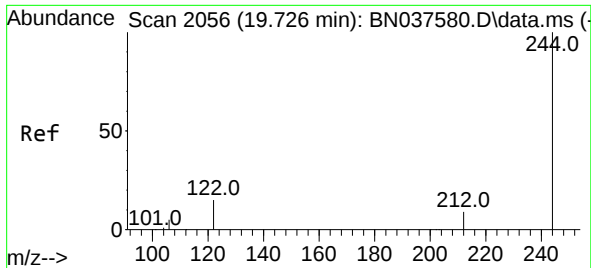
Tgt Ion:240 Resp: 3590
Ion Ratio Lower Upper
240 100
120 13.2 8.9 13.3
236 29.2 22.6 33.8



#30
Pyrene
Concen: 0.346 ng
RT: 19.503 min Scan# 2008
Delta R.T. -0.009 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:202 Resp: 4645
Ion Ratio Lower Upper
202 100
200 20.6 16.6 25.0
203 17.3 14.3 21.5

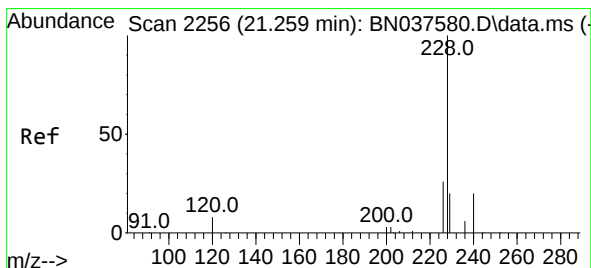
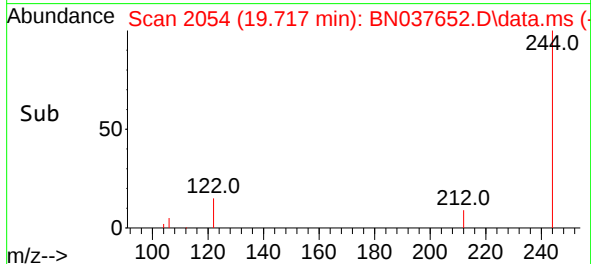
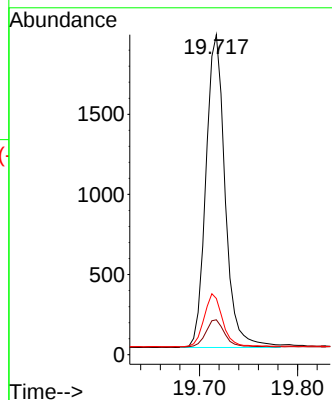
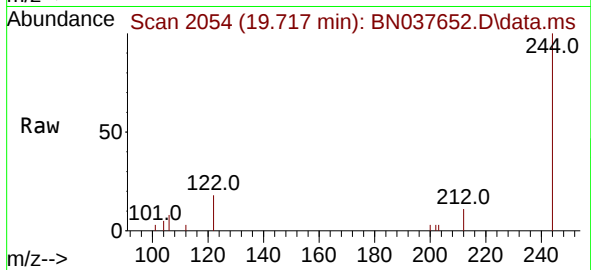




#31
 Terphenyl-d14
 Concen: 0.360 ng
 RT: 19.717 min Scan# 2054
 Delta R.T. -0.009 min
 Lab File: BN037652.D
 Acq: 28 Aug 2025 11:54

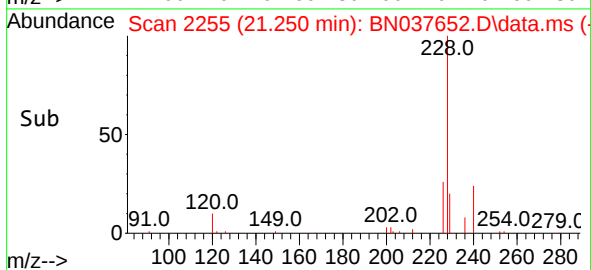
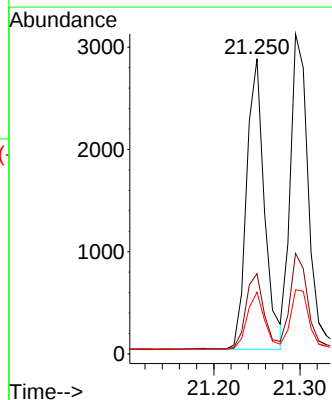
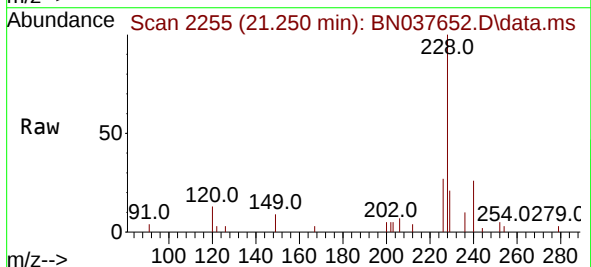
Instrument :
 BNA_N
 ClientSampleId :
 PB169421BS

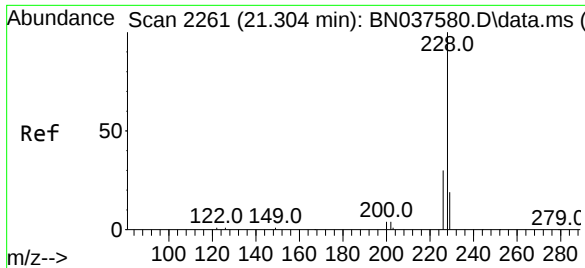
Tgt Ion:244 Resp: 2658
 Ion Ratio Lower Upper
 244 100
 212 10.9 8.2 12.2
 122 17.5 13.2 19.8



#32
 Benzo(a)anthracene
 Concen: 0.341 ng
 RT: 21.250 min Scan# 2255
 Delta R.T. -0.009 min
 Lab File: BN037652.D
 Acq: 28 Aug 2025 11:54

Tgt Ion:228 Resp: 4093
 Ion Ratio Lower Upper
 228 100
 226 27.2 21.5 32.3
 229 20.9 16.5 24.7





#33

Chrysene

Concen: 0.340 ng

RT: 21.295 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

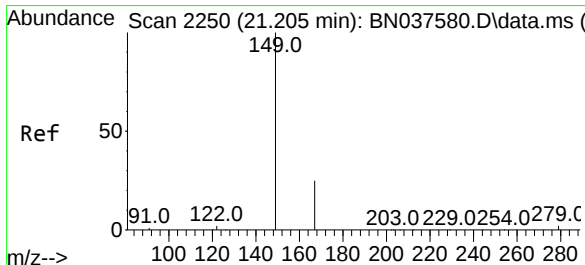
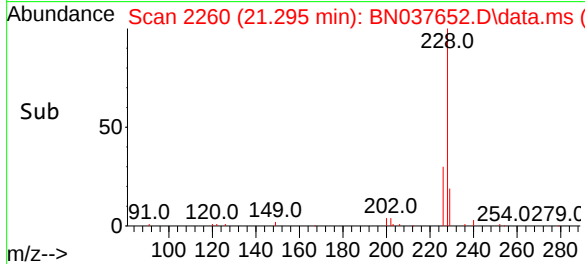
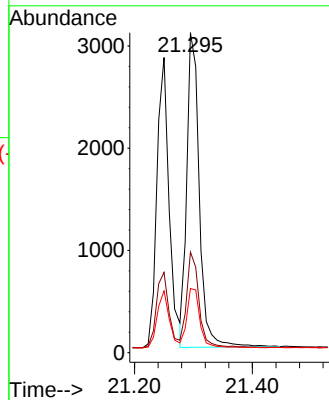
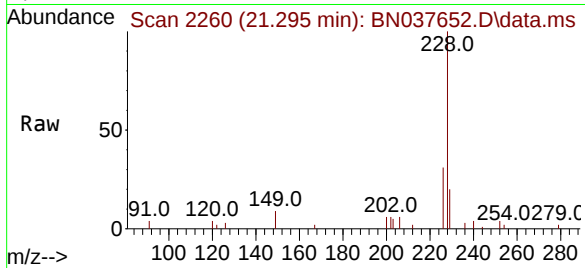
Tgt Ion:228 Resp: 4542

Ion Ratio Lower Upper

228 100

226 31.5 24.9 37.3

229 20.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.355 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

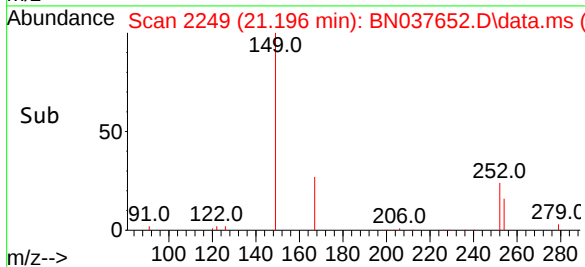
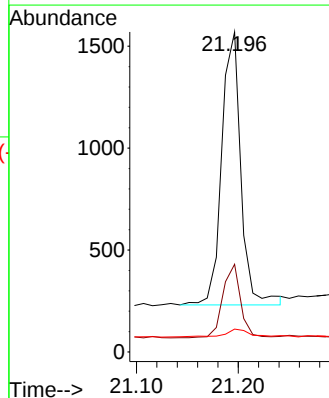
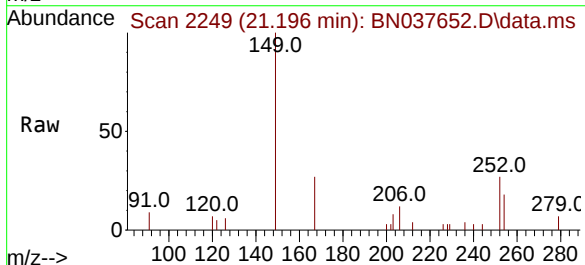
Tgt Ion:149 Resp: 1759

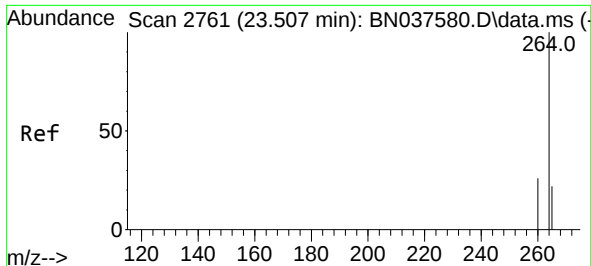
Ion Ratio Lower Upper

149 100

167 24.8 20.5 30.7

279 3.8 2.6 4.0



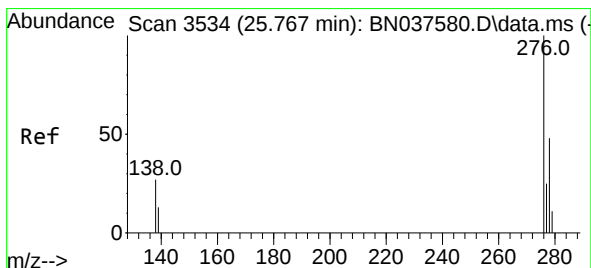
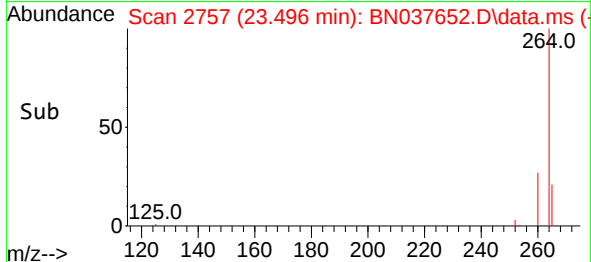
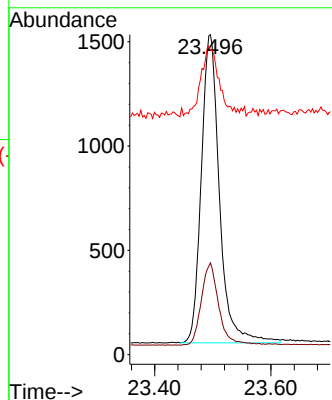
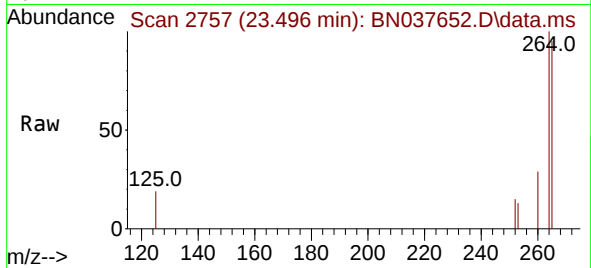


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.496 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Instrument :
BNA_N
ClientSampleId :
PB169421BS

Tgt Ion:264 Resp: 3204

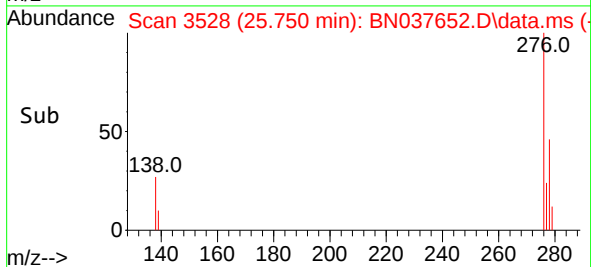
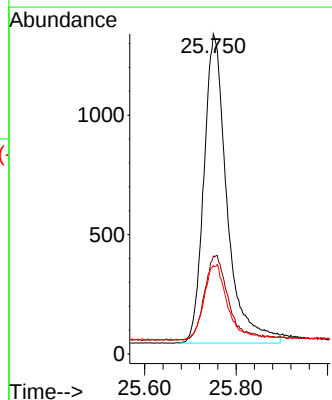
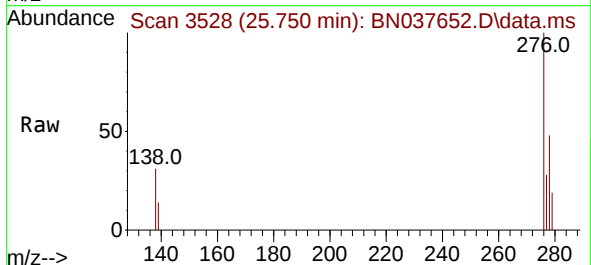
Ion	Ratio	Lower	Upper
264	100		
260	28.7	21.6	32.4
265	95.1	48.2	72.4

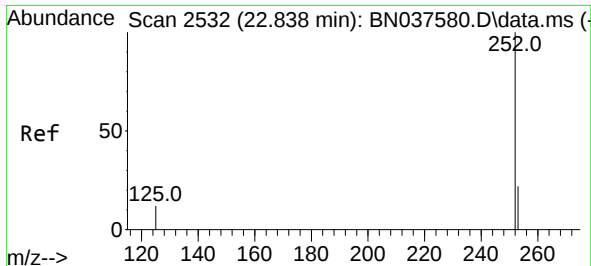


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.337 ng
RT: 25.750 min Scan# 3528
Delta R.T. -0.017 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:276 Resp: 4546

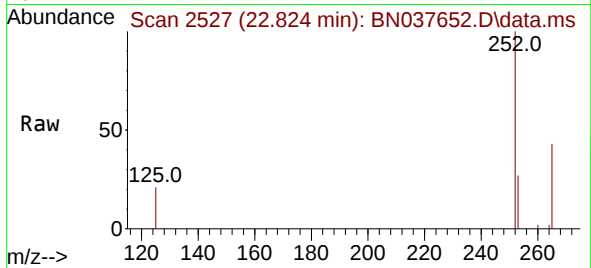
Ion	Ratio	Lower	Upper
276	100		
138	28.0	23.3	34.9
277	24.5	19.5	29.3



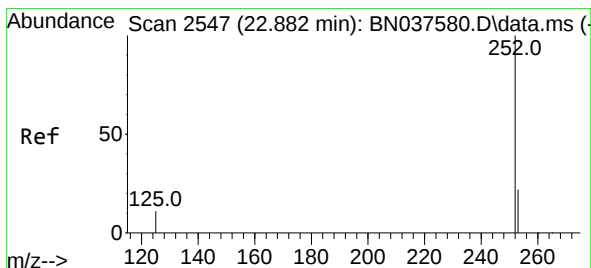
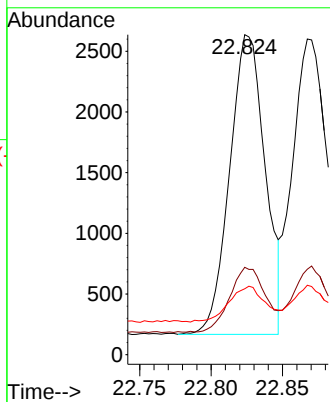
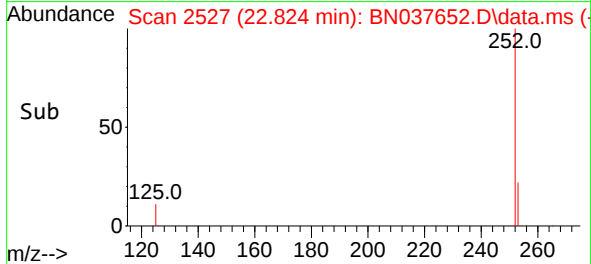


#37
Benzo(b)fluoranthene
Concen: 0.351 ng
RT: 22.824 min Scan# 2527
Delta R.T. -0.014 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Instrument :
BNA_N
ClientSampleId :
PB169421BS

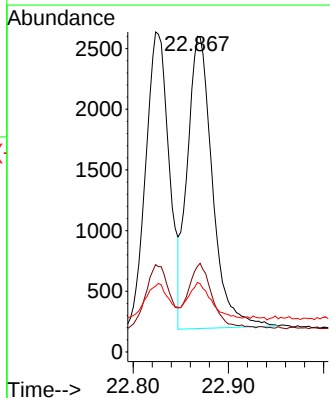
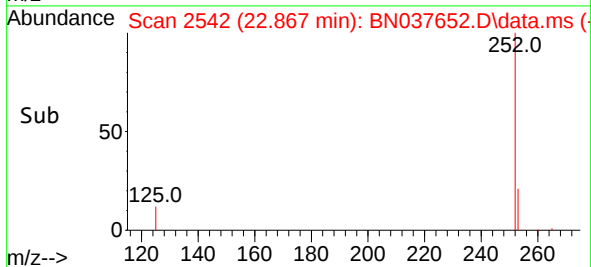
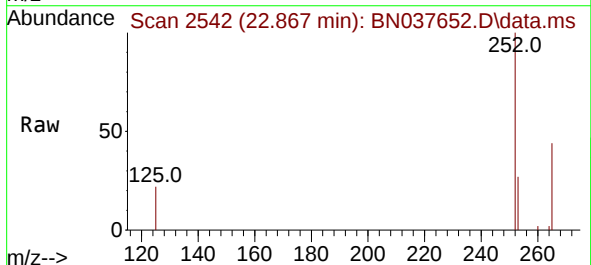


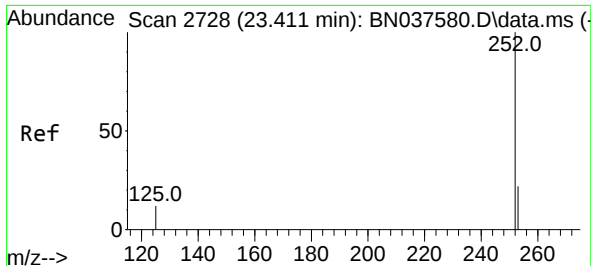
Tgt Ion:252 Resp: 4267
Ion Ratio Lower Upper
252 100
253 27.3 20.0 30.0
125 20.6 13.8 20.6



#38
Benzo(k)fluoranthene
Concen: 0.322 ng
RT: 22.867 min Scan# 2542
Delta R.T. -0.014 min
Lab File: BN037652.D
Acq: 28 Aug 2025 11:54

Tgt Ion:252 Resp: 4412
Ion Ratio Lower Upper
252 100
253 27.1 19.9 29.9
125 22.0 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.355 ng

RT: 23.397 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

Instrument :

BNA_N

ClientSampleId :

PB169421BS

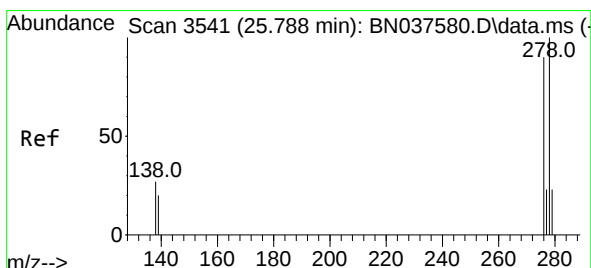
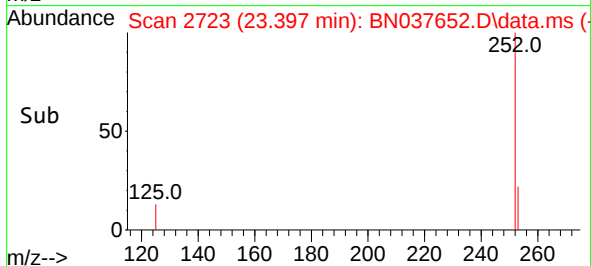
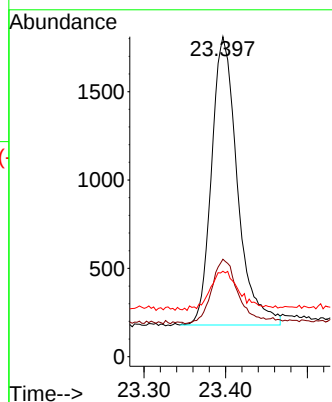
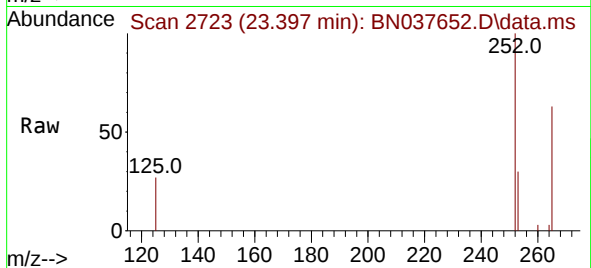
Tgt Ion:252 Resp: 3577

Ion Ratio Lower Upper

252 100

253 30.5 21.6 32.4

125 26.7 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.323 ng

RT: 25.768 min Scan# 3534

Delta R.T. -0.020 min

Lab File: BN037652.D

Acq: 28 Aug 2025 11:54

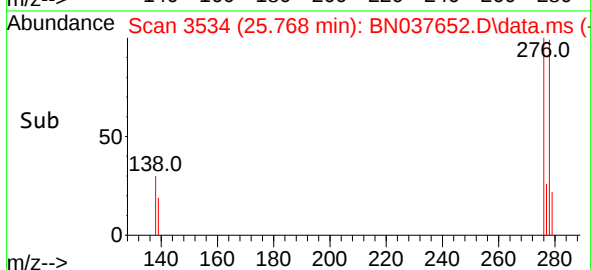
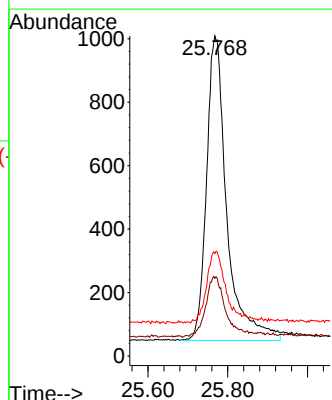
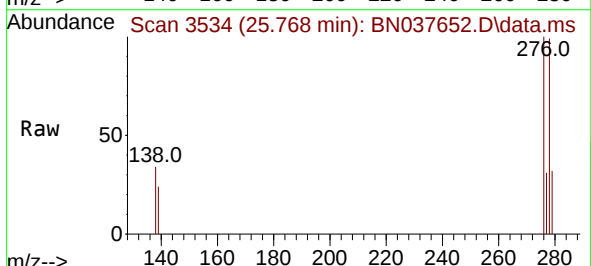
Tgt Ion:278 Resp: 3387

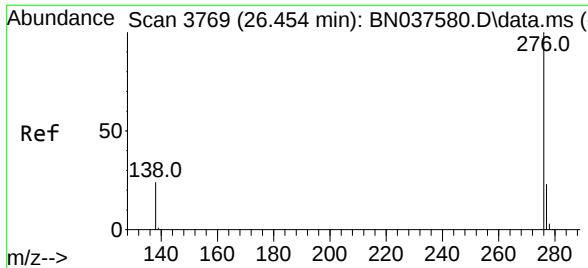
Ion Ratio Lower Upper

278 100

139 24.3 18.3 27.5

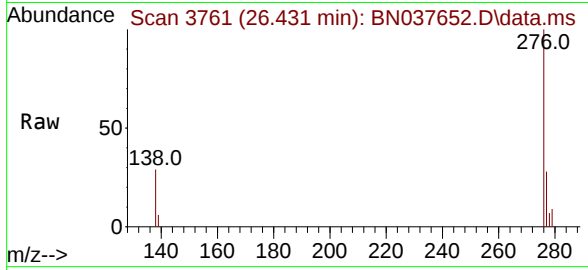
279 32.0 22.5 33.7



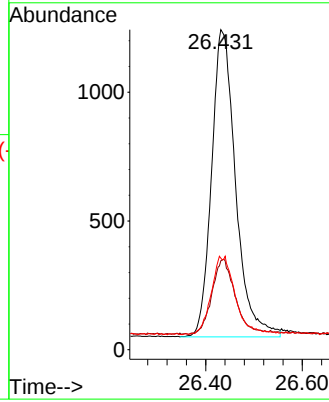
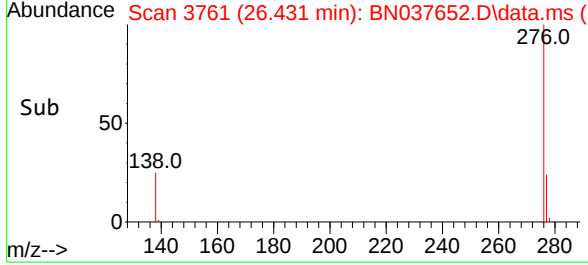


#41
 Benzo(g,h,i)perylene
 Concen: 0.374 ng
 RT: 26.431 min Scan# 31
 Delta R.T. -0.023 min
 Lab File: BN037652.D
 Acq: 28 Aug 2025 11:54

Instrument :
 BNA_N
 ClientSampleId :
 PB169421BS



Tgt Ion:	276	Resp:	4128
Ion Ratio	Lower	Upper	
276	100		
277	27.8	21.0	31.4
138	28.6	21.7	32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
 Data File : BN037653.D
 Acq On : 28 Aug 2025 12:30
 Operator : RC/JU
 Sample : PB169421BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169421BSD

Quant Time: Aug 28 13:06:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

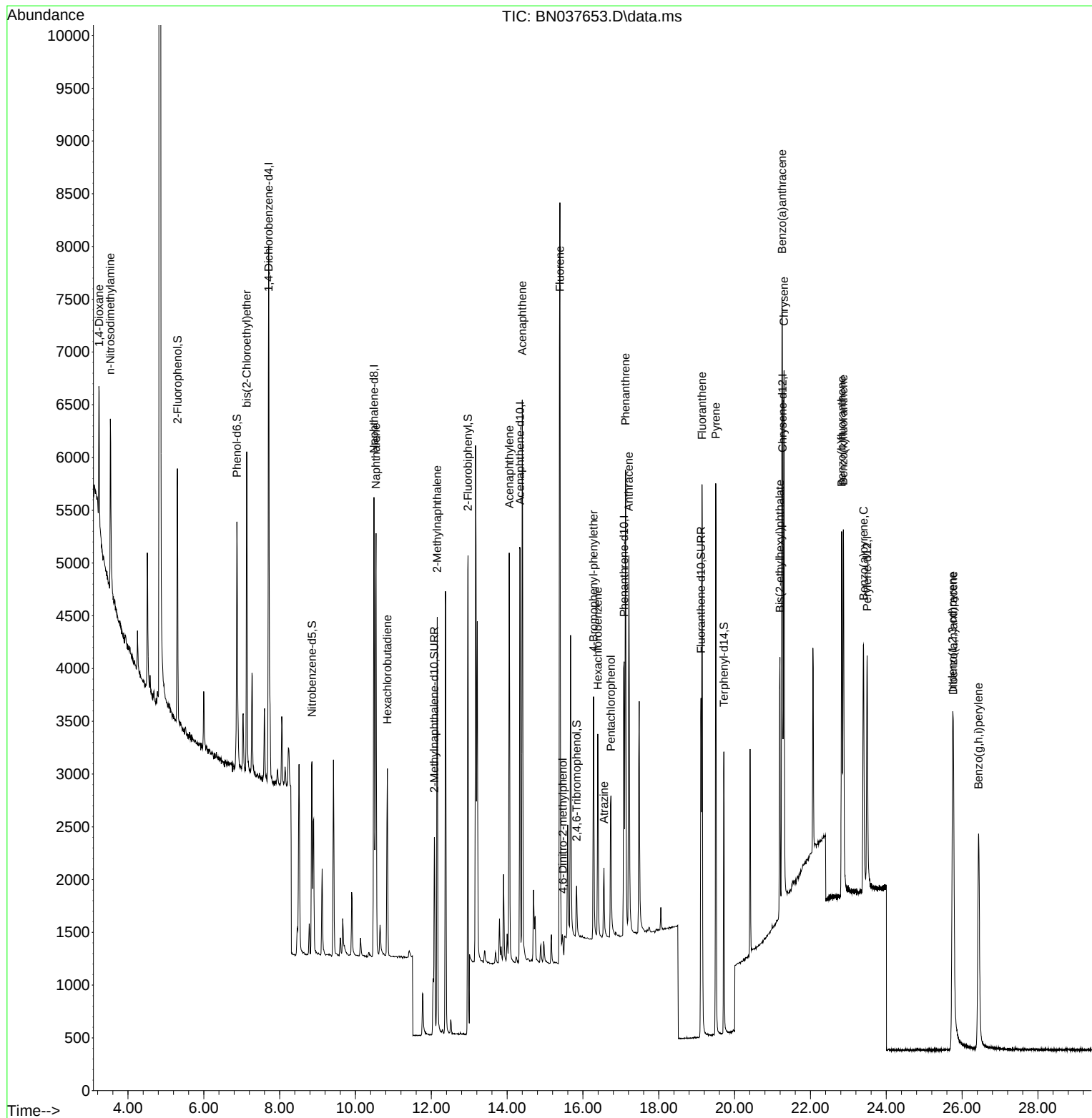
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2452	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	5588	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2436	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4479	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3451	0.400	ng	# 0.00
35) Perylene-d12	23.496	264	3064	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1957	0.352	ng	0.00
5) Phenol-d6	6.872	99	2140	0.320	ng	0.00
8) Nitrobenzene-d5	8.854	82	1587	0.403	ng	0.00
11) 2-Methylnaphthalene-d10	12.080	152	3626	0.477	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	362	0.340	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	5937	0.421	ng	0.00
27) Fluoranthene-d10	19.113	212	3776	0.320	ng	0.00
31) Terphenyl-d14	19.717	244	2753	0.388	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	752	0.321	ng	# 80
3) n-Nitrosodimethylamine	3.535	42	1176	0.392	ng	93
6) bis(2-Chloroethyl)ether	7.132	93	2162	0.359	ng	96
9) Naphthalene	10.541	128	5375	0.361	ng	100
10) Hexachlorobutadiene	10.840	225	1449	0.399	ng	# 99
12) 2-Methylnaphthalene	12.156	142	2891	0.310	ng	99
16) Acenaphthylene	14.056	152	4397	0.403	ng	99
17) Acenaphthene	14.398	154	2646	0.356	ng	99
18) Fluorene	15.393	166	3408	0.351	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	199	0.425	ng	91
21) 4-Bromophenyl-phenylether	16.280	248	996	0.354	ng	# 91
22) Hexachlorobenzene	16.391	284	1594	0.399	ng	98
23) Atrazine	16.553	200	641	0.403	ng	93
24) Pentachlorophenol	16.739	266	842	0.601	ng	98
25) Phenanthrene	17.124	178	4811	0.353	ng	99
26) Anthracene	17.211	178	4337	0.360	ng	99
28) Fluoranthene	19.141	202	4922	0.315	ng	100
30) Pyrene	19.503	202	4739	0.367	ng	99
32) Benzo(a)anthracene	21.250	228	4262	0.370	ng	98
33) Chrysene	21.304	228	4808	0.374	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	1764	0.371	ng	98
36) Indeno(1,2,3-cd)pyrene	25.750	276	4912	0.380	ng	98
37) Benzo(b)fluoranthene	22.823	252	4652	0.401	ng	# 94
38) Benzo(k)fluoranthene	22.867	252	4628	0.353	ng	96
39) Benzo(a)pyrene	23.399	252	3850	0.400	ng	# 93
40) Dibenzo(a,h)anthracene	25.770	278	3559	0.355	ng	94
41) Benzo(g,h,i)perylene	26.434	276	4360	0.413	ng	98

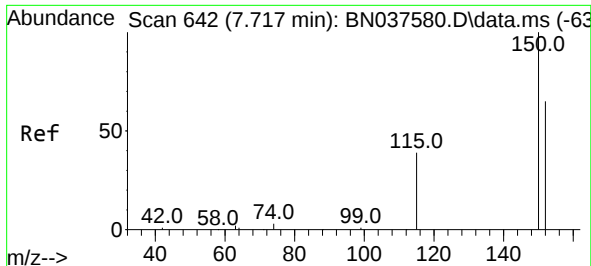
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082825\
Data File : BN037653.D
Acq On : 28 Aug 2025 12:30
Operator : RC/JU
Sample : PB169421BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169421BSD

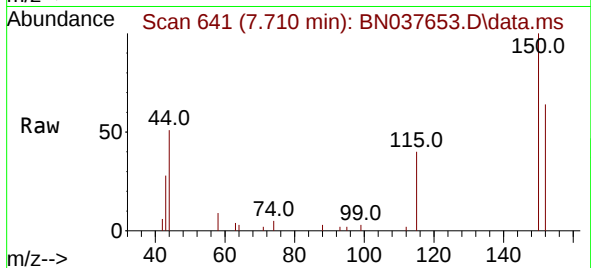
Quant Time: Aug 28 13:06:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



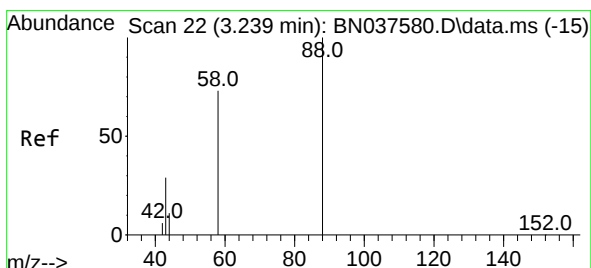
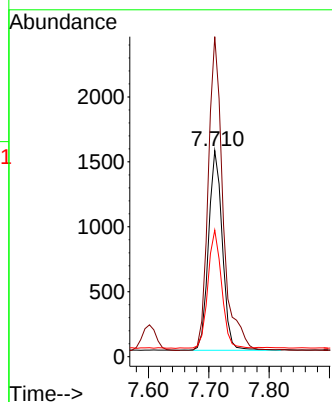
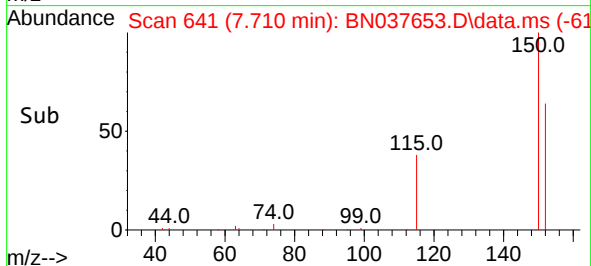


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.710 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

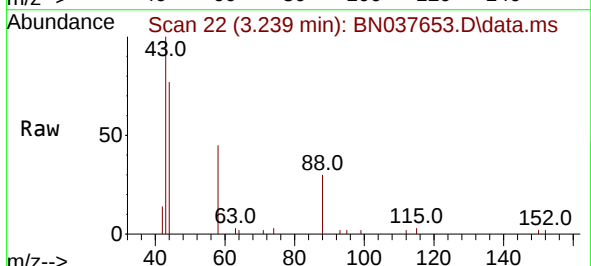
Instrument :
 BNA_N
 ClientSampleId :
 PB169421BSD



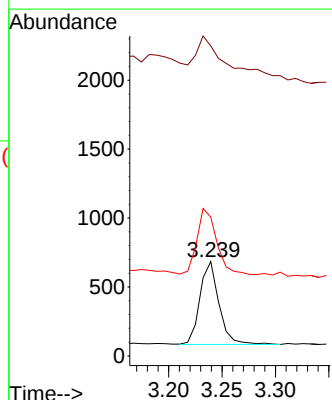
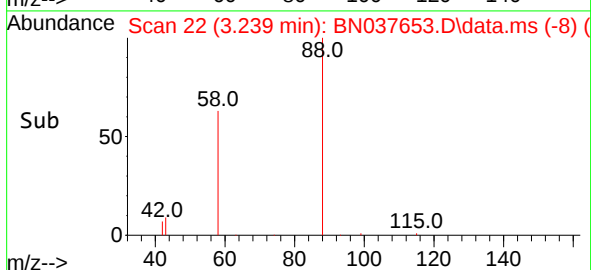
Tgt Ion:152 Resp: 2452
 Ion Ratio Lower Upper
 152 100
 150 155.3 122.2 183.4
 115 61.4 49.8 74.6

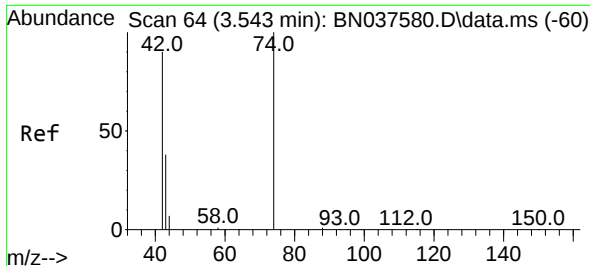


#2
 1,4-Dioxane
 Concen: 0.321 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30



Tgt Ion: 88 Resp: 752
 Ion Ratio Lower Upper
 88 100
 43 62.5 25.8 38.6#
 58 81.1 61.2 91.8

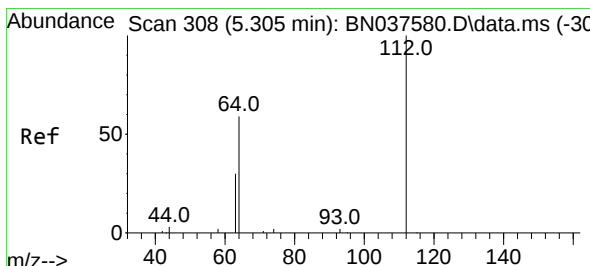
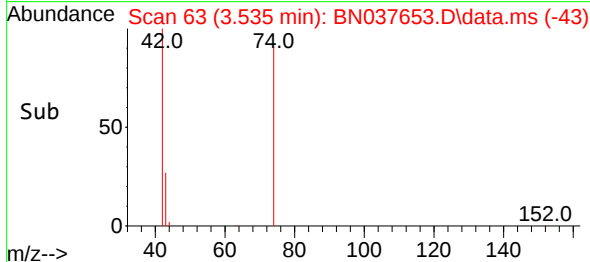
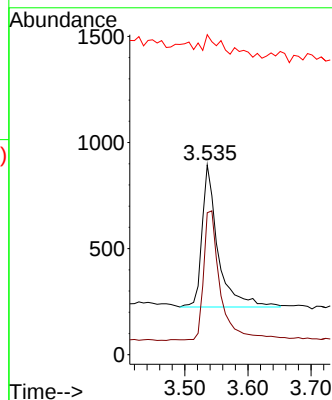
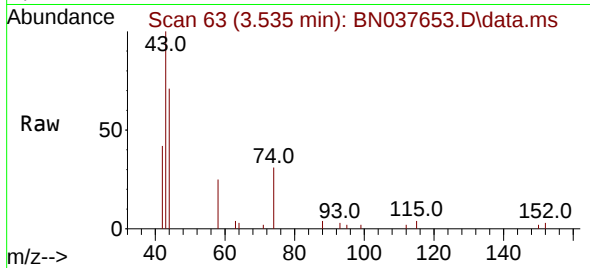




#3
 n-Nitrosodimethylamine
 Concen: 0.392 ng
 RT: 3.535 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

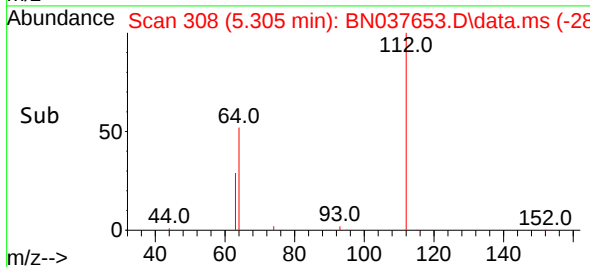
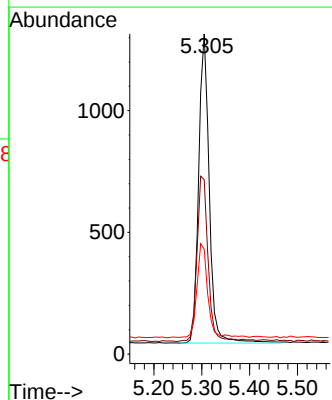
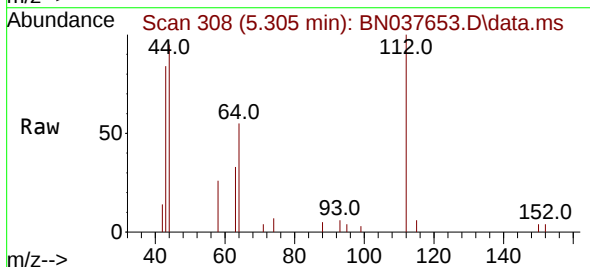
Instrument :
 BNA_N
 ClientSampleId :
 PB169421BSD

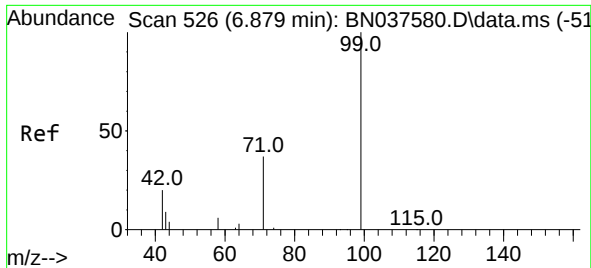
Tgt Ion: 42 Resp: 1176
 Ion Ratio Lower Upper
 42 100
 74 94.4 82.0 123.0
 44 10.1 7.9 11.9



#4
 2-Fluorophenol
 Concen: 0.352 ng
 RT: 5.305 min Scan# 308
 Delta R.T. 0.000 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

Tgt Ion: 112 Resp: 1957
 Ion Ratio Lower Upper
 112 100
 64 55.3 44.9 67.3
 63 31.5 23.4 35.2

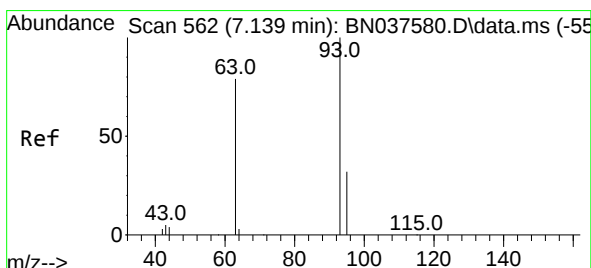
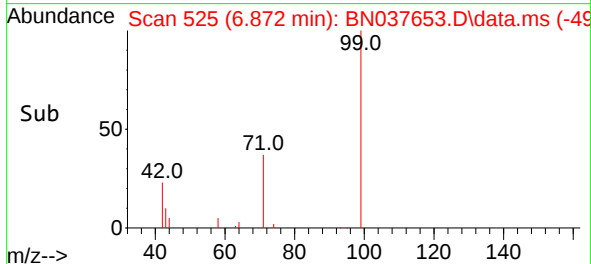
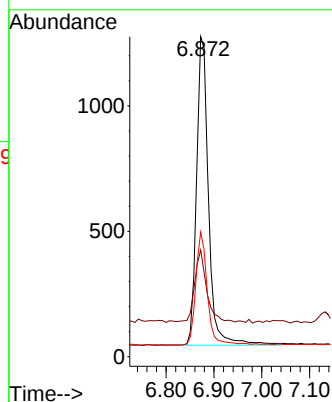
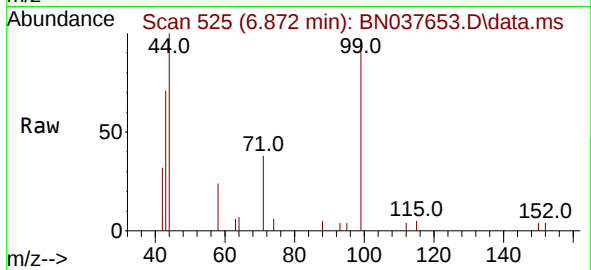




#5
Phenol-d6
Concen: 0.320 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

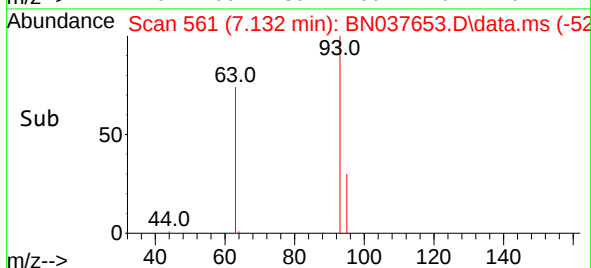
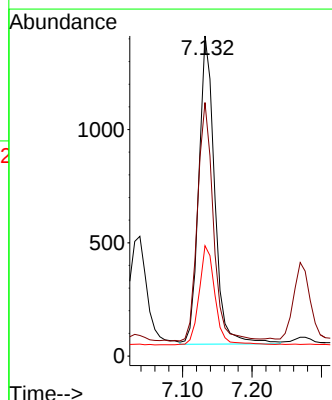
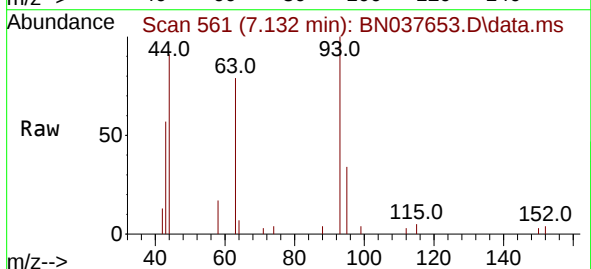
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

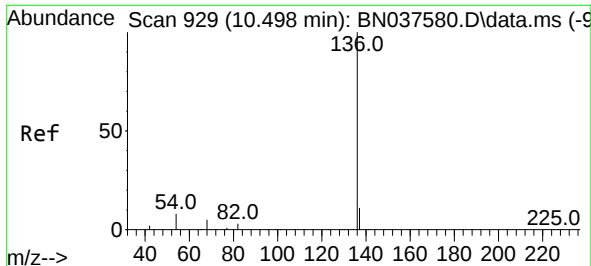
Tgt Ion:	99	Resp:	2140
Ion	Ratio	Lower	Upper
99	100		
42	22.9	18.5	27.7
71	35.7	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:	93	Resp:	2162
Ion	Ratio	Lower	Upper
93	100		
63	77.3	58.0	87.0
95	31.9	24.9	37.3

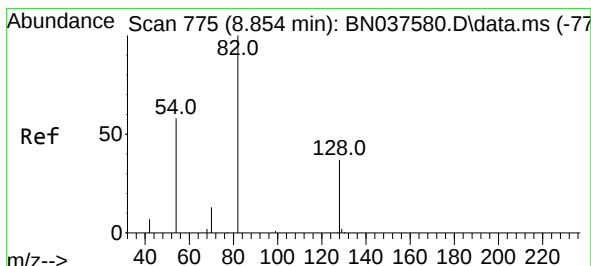
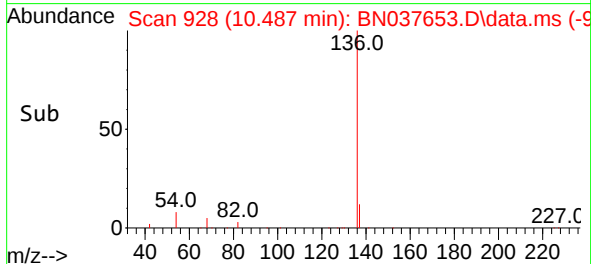
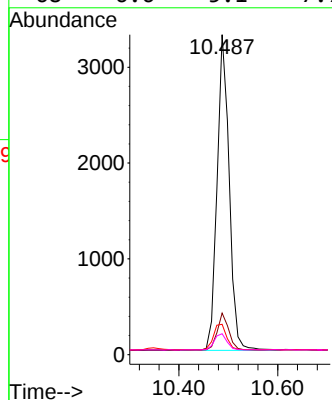
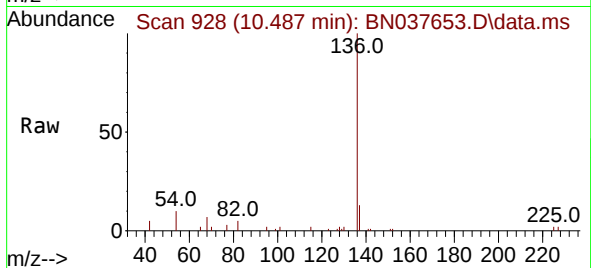




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

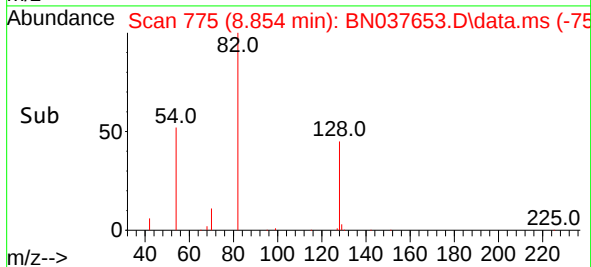
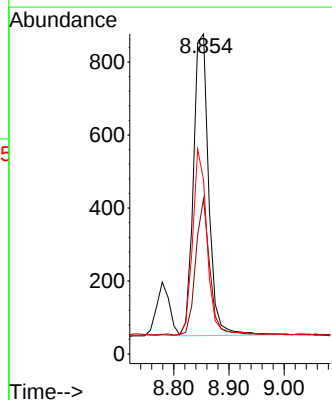
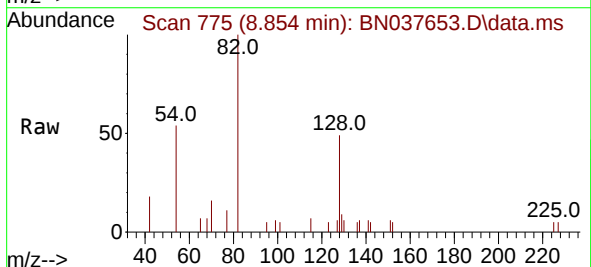
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

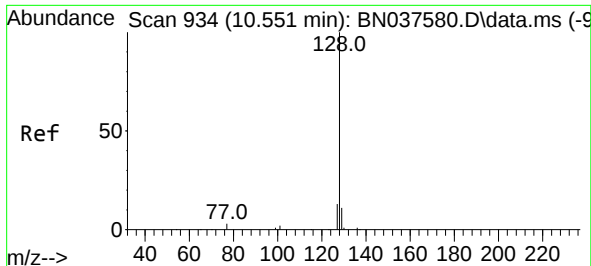
Tgt Ion:	136	Resp:	5588
Ion	Ratio	Lower	Upper
136	100		
137	13.0	9.5	14.3
54	9.5	7.3	10.9
68	6.6	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.403 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:	82	Resp:	1587
Ion	Ratio	Lower	Upper
82	100		
128	48.6	32.6	48.8
54	54.4	48.9	73.3

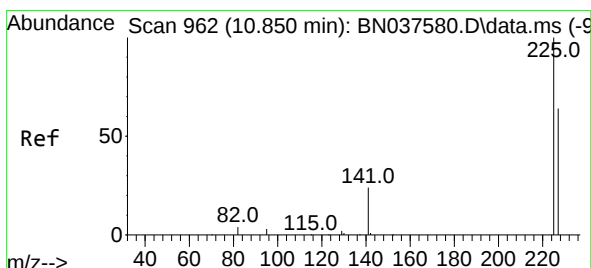
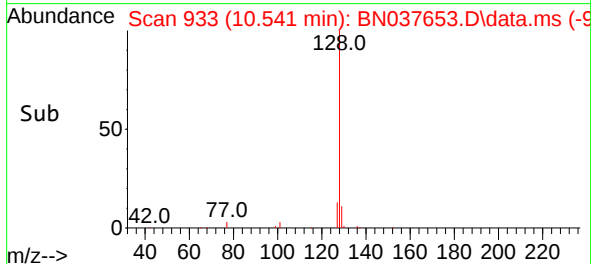
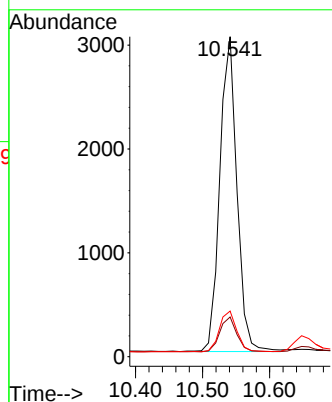
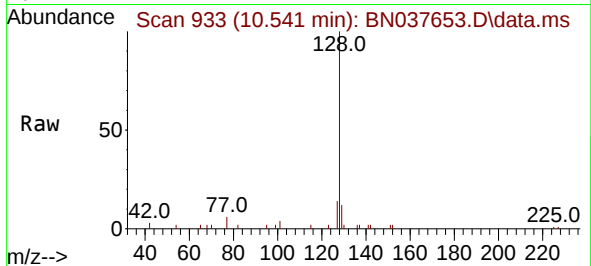




#9
Naphthalene
Concen: 0.361 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

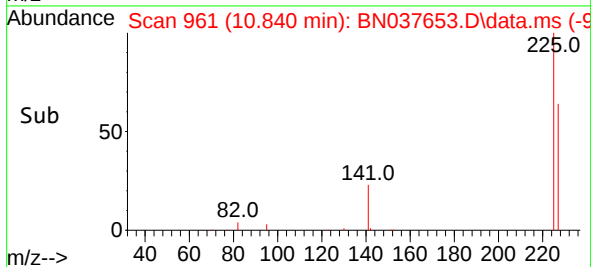
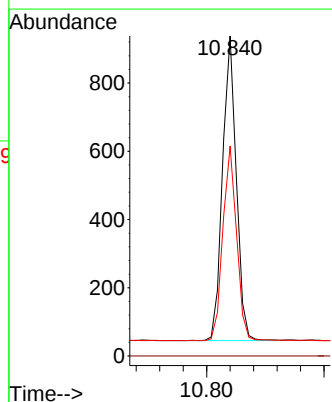
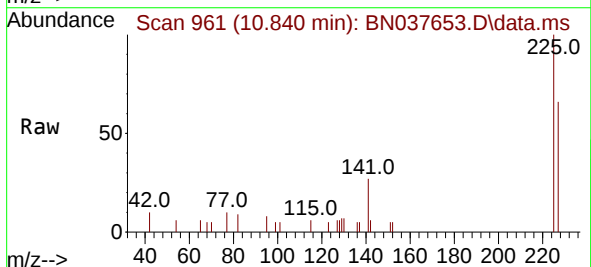
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

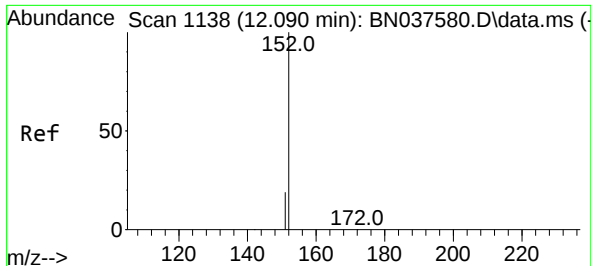
Tgt Ion:128 Resp: 5375
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.2 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:225 Resp: 1449
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 50.8 76.2

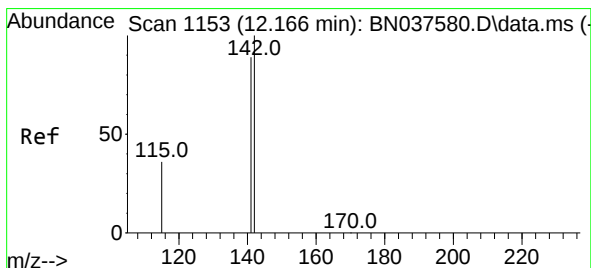
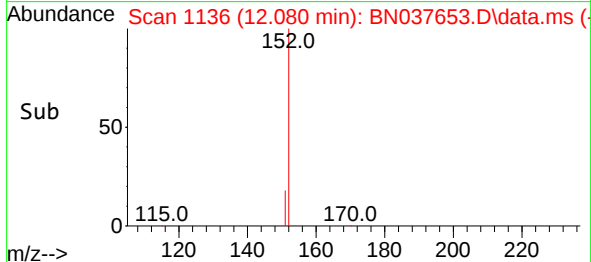
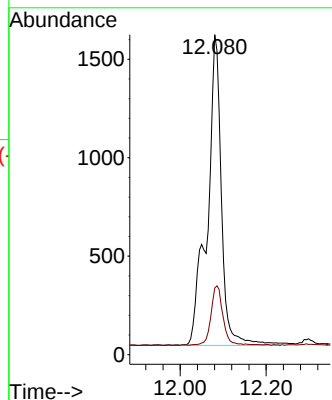
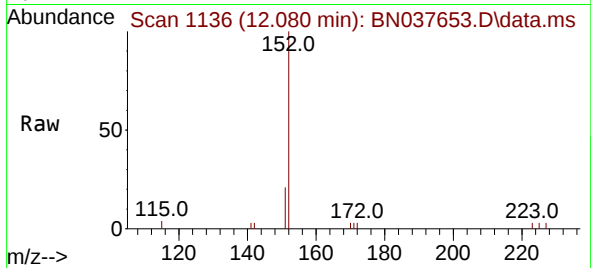




#11
2-Methylnaphthalene-d10
Concen: 0.477 ng
RT: 12.080 min Scan# 1136
Delta R.T. -0.010 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

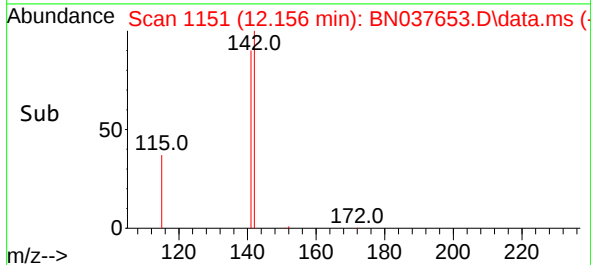
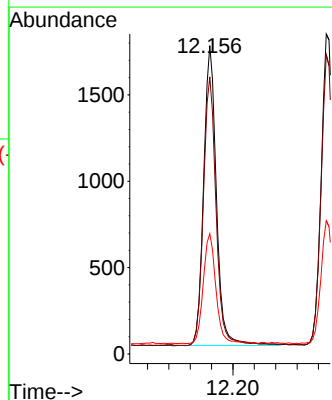
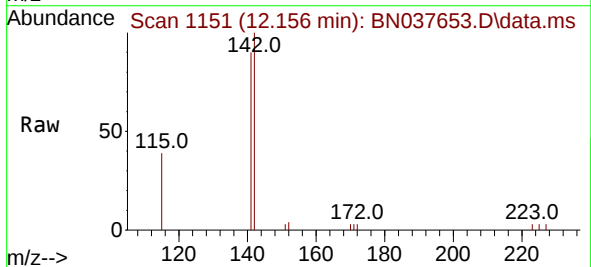
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

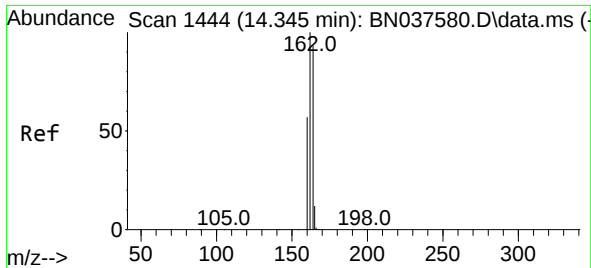
Tgt Ion:152 Resp: 3626
Ion Ratio Lower Upper
152 100
151 16.2 17.3 25.9#



#12
2-Methylnaphthalene
Concen: 0.310 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:142 Resp: 2891
Ion Ratio Lower Upper
142 100
141 89.9 71.4 107.0
115 39.0 30.2 45.4

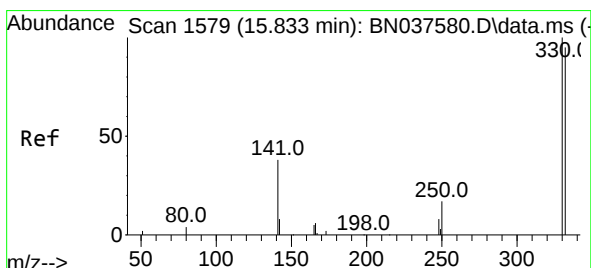
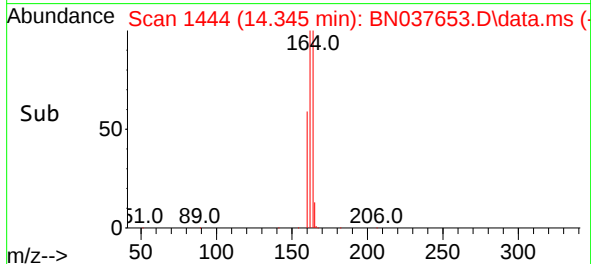
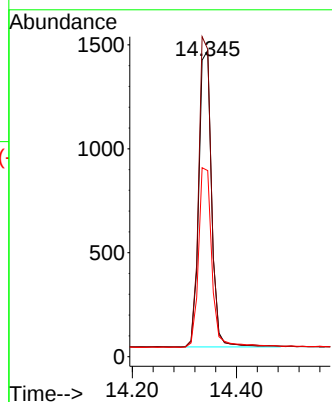
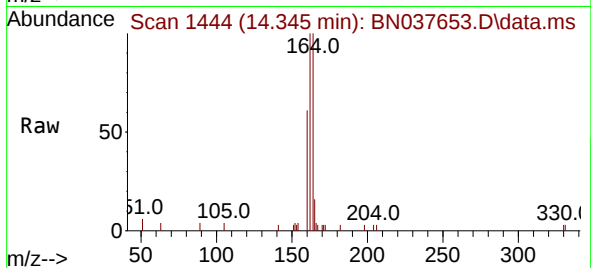




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

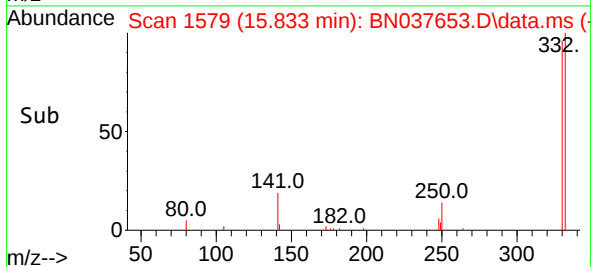
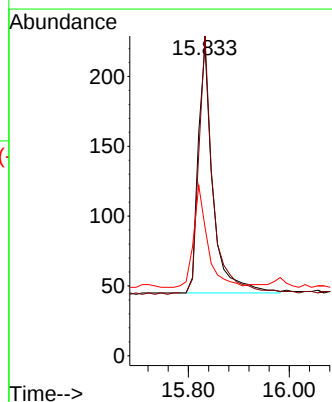
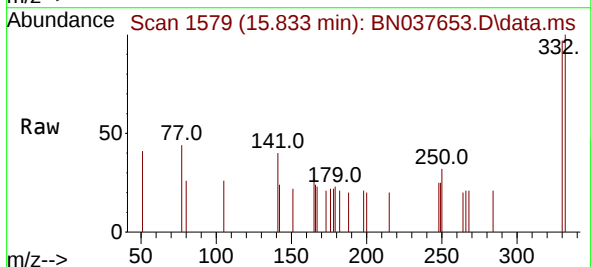
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

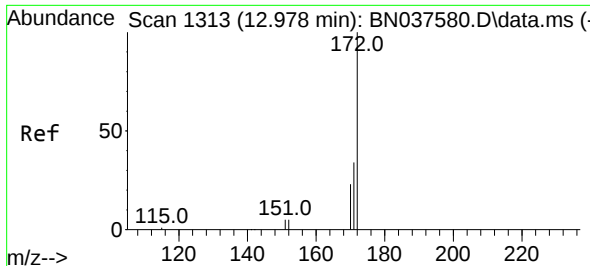
Tgt Ion:164 Resp: 2436
Ion Ratio Lower Upper
164 100
162 100.3 85.5 128.3
160 60.7 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.340 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:330 Resp: 362
Ion Ratio Lower Upper
330 100
332 102.5 77.4 116.0
141 39.0 30.9 46.3

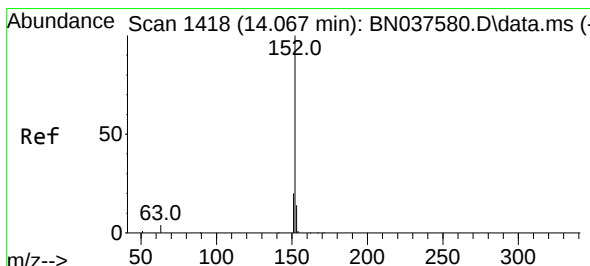
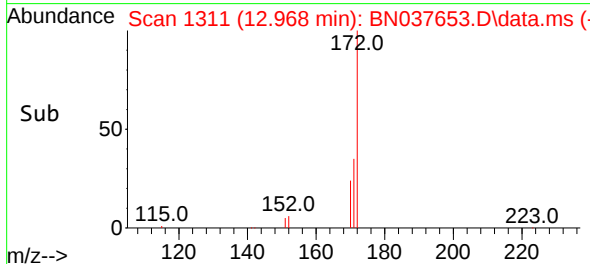
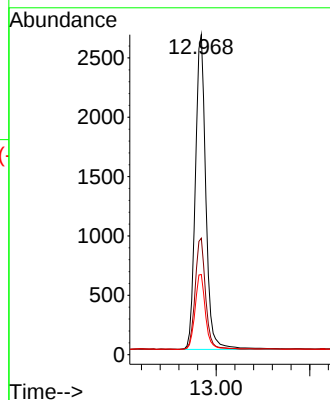
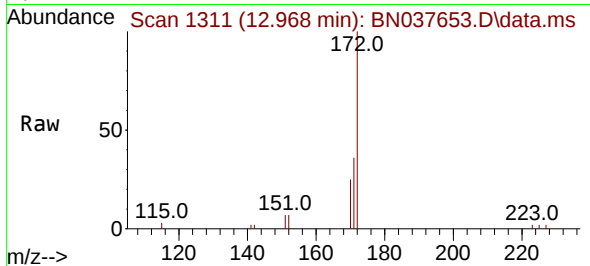




#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

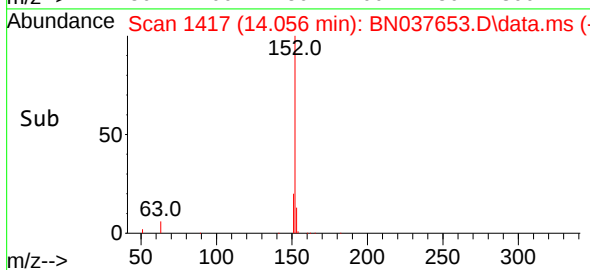
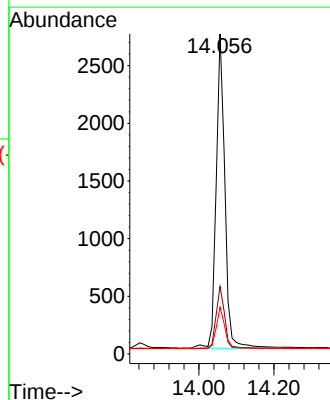
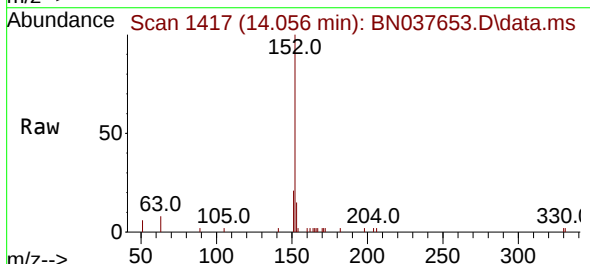
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

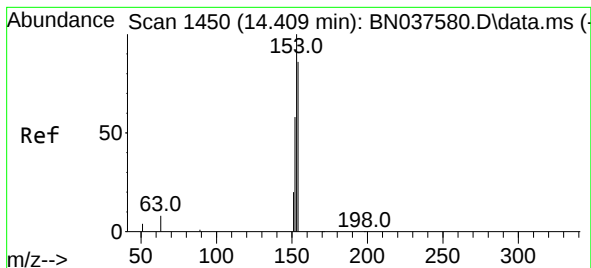
Tgt Ion:	172	Resp:	5937
Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.2	42.4
170	25.0	19.2	28.8



#16
Acenaphthylene
Concen: 0.403 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:	152	Resp:	4397
Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.1	24.1
153	12.9	10.7	16.1





#17

Acenaphthene

Concen: 0.356 ng

RT: 14.398 min Scan# 1449

Delta R.T. -0.011 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD

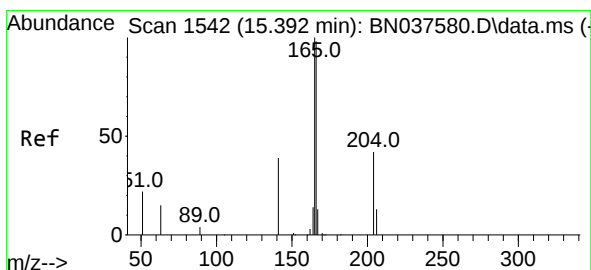
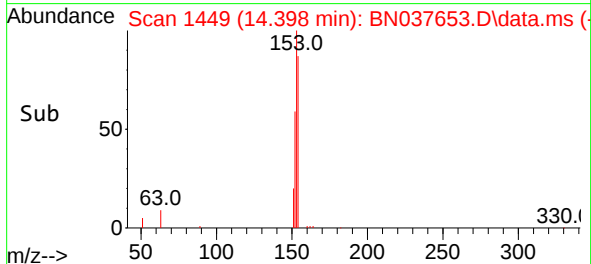
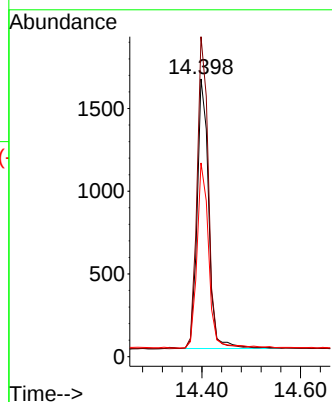
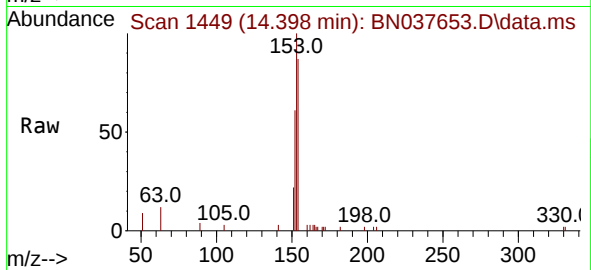
Tgt Ion:154 Resp: 2646

Ion Ratio Lower Upper

154 100

153 114.5 90.6 135.8

152 69.5 54.9 82.3



#18

Fluorene

Concen: 0.351 ng

RT: 15.393 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

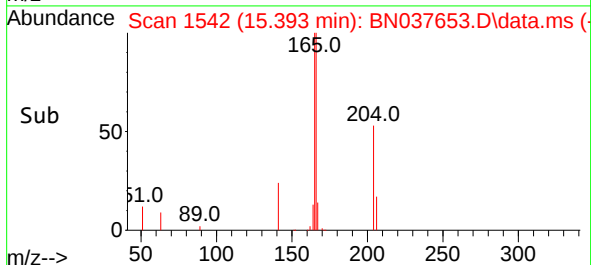
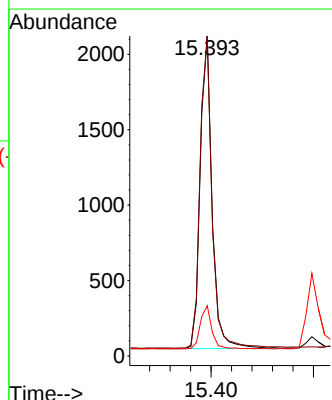
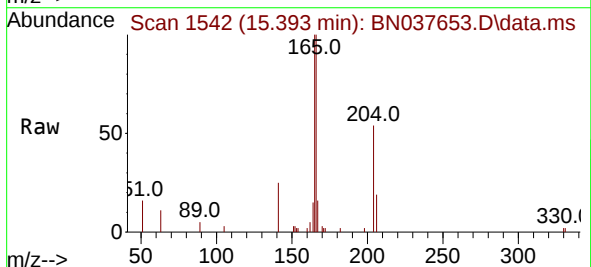
Tgt Ion:166 Resp: 3408

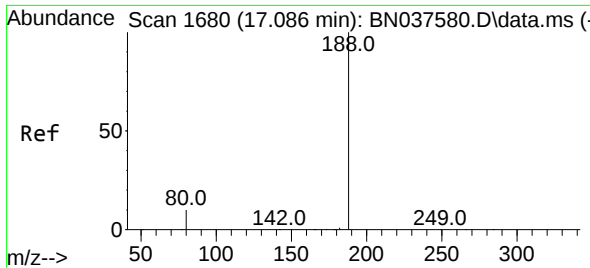
Ion Ratio Lower Upper

166 100

165 101.3 78.9 118.3

167 13.7 10.7 16.1

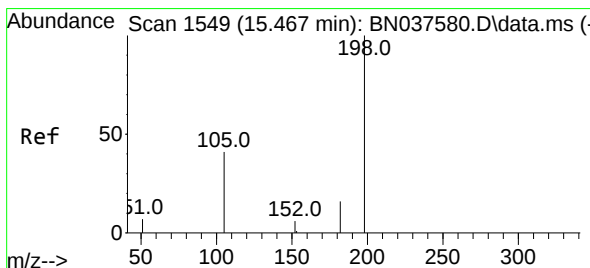
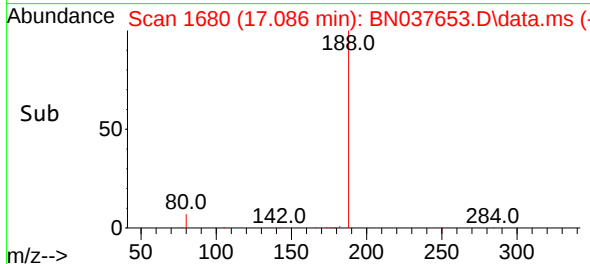
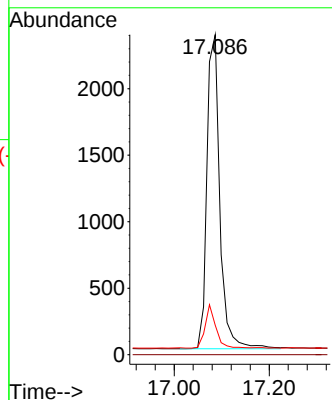
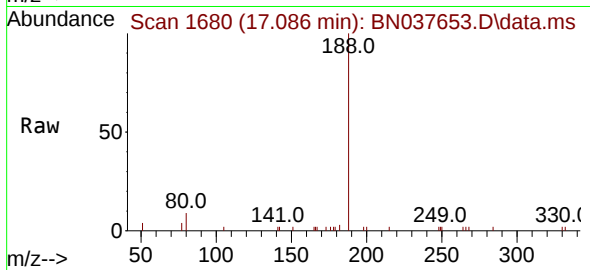




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

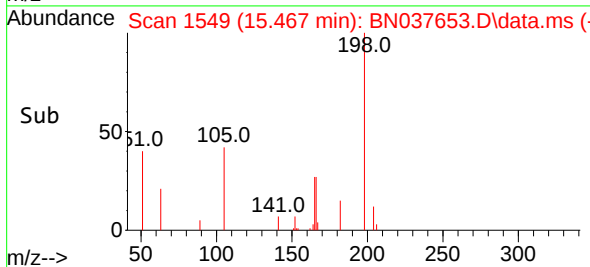
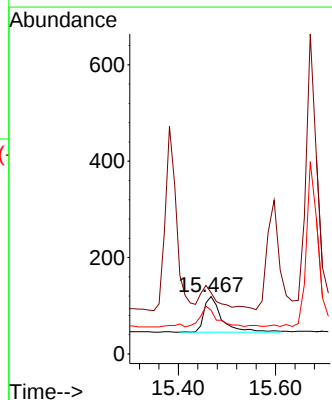
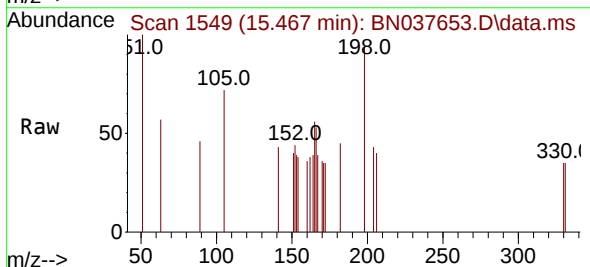
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

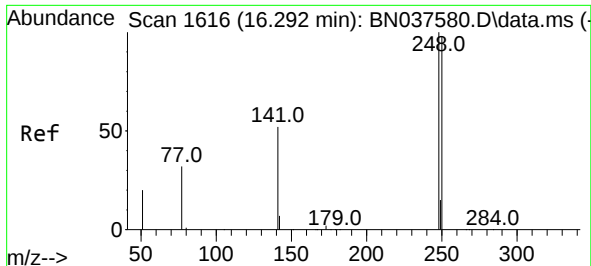
Tgt Ion:188 Resp: 4479
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 9.1 13.7



#20
4,6-Dinitro-2-methylphenol
Concen: 0.425 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:198 Resp: 199
Ion Ratio Lower Upper
198 100
51 106.7 81.0 121.6
105 76.5 52.5 78.7

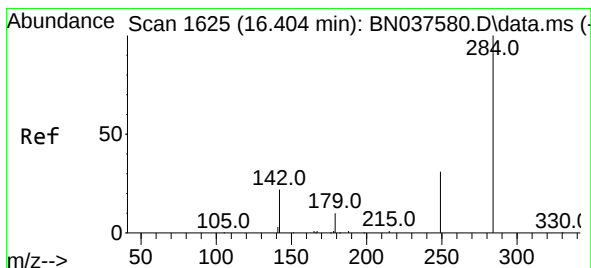
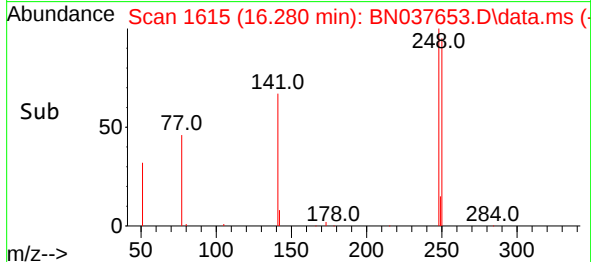
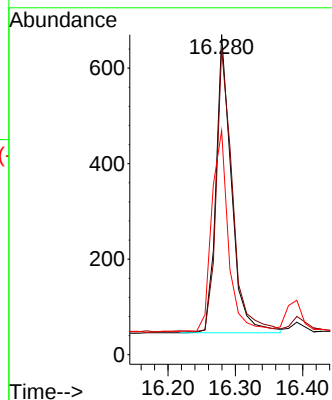
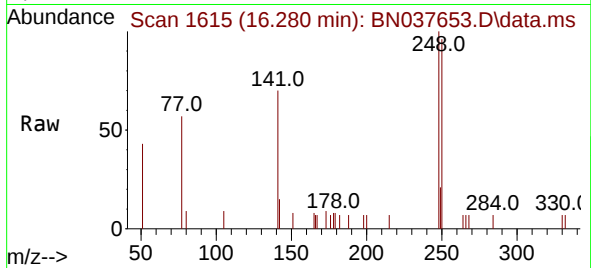




#21
4-Bromophenyl-phenylether
Concen: 0.354 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

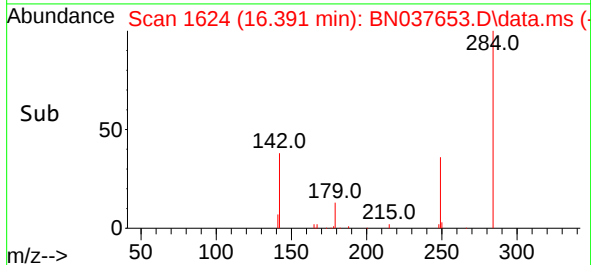
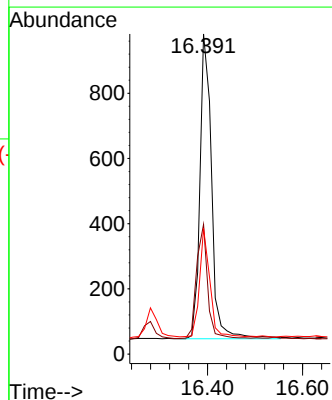
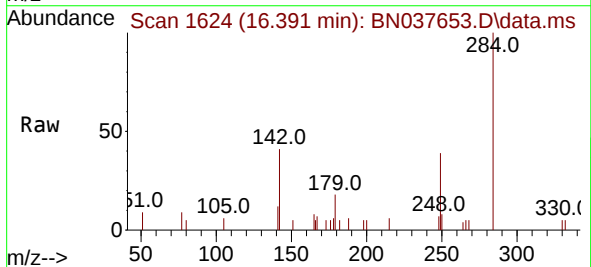
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

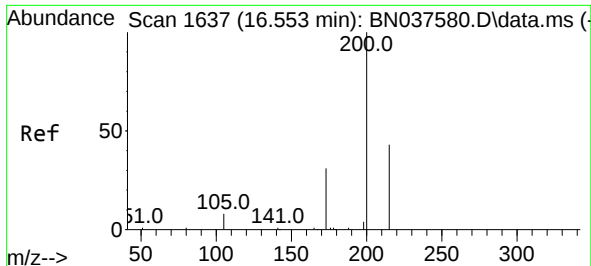
Tgt Ion:248 Resp: 996
Ion Ratio Lower Upper
248 100
250 95.7 78.6 118.0
141 70.0 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.399 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:284 Resp: 1594
Ion Ratio Lower Upper
284 100
142 35.4 29.8 44.6
249 31.6 26.0 39.0

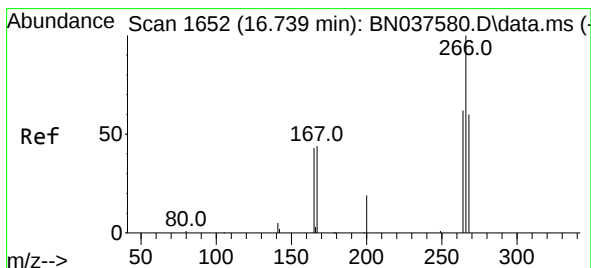
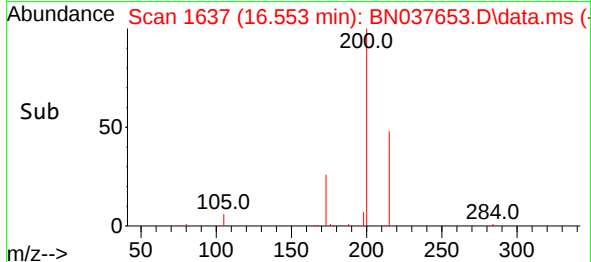
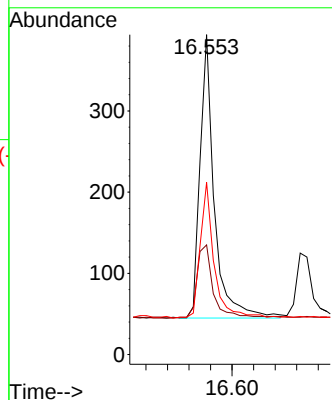
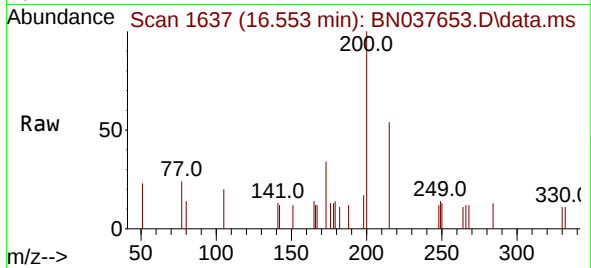




#23
 Atrazine
 Concen: 0.403 ng
 RT: 16.553 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

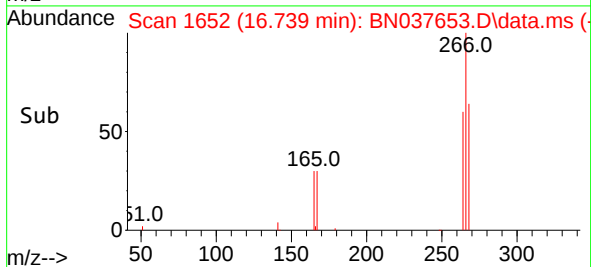
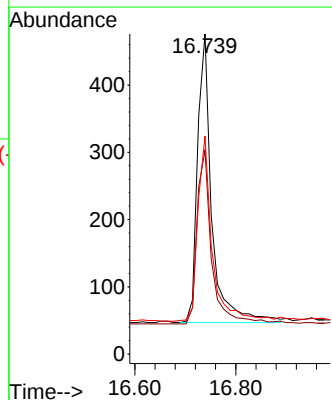
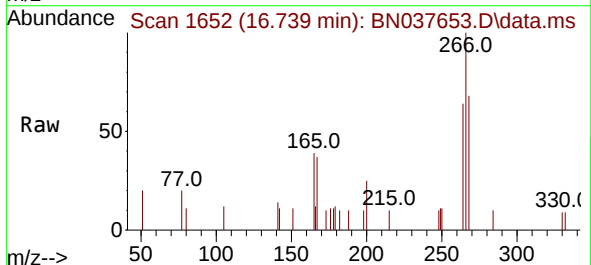
Instrument :
 BNA_N
 ClientSampleId :
 PB169421BSD

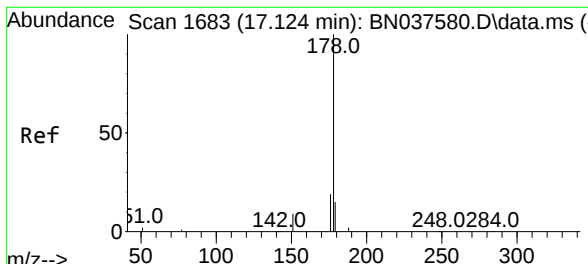
Tgt Ion:200 Resp: 641
 Ion Ratio Lower Upper
 200 100
 173 34.3 31.0 46.4
 215 53.8 39.4 59.0



#24
 Pentachlorophenol
 Concen: 0.601 ng
 RT: 16.739 min Scan# 1652
 Delta R.T. -0.000 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

Tgt Ion:266 Resp: 842
 Ion Ratio Lower Upper
 266 100
 264 61.5 49.6 74.4
 268 64.8 49.2 73.8

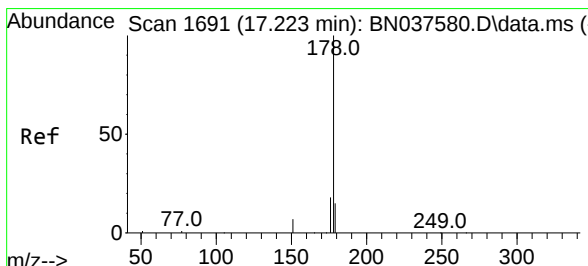
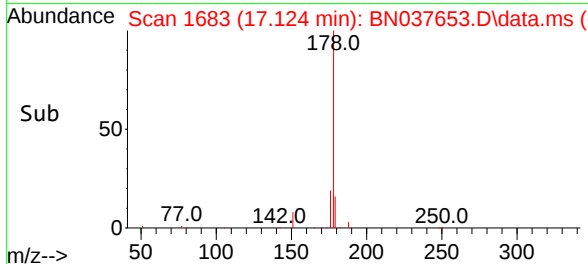
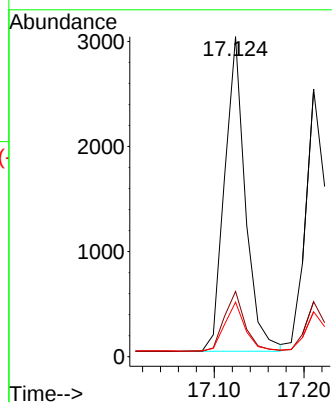
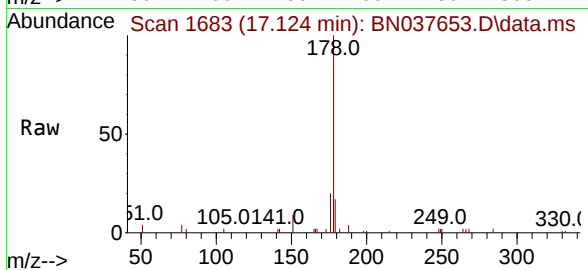




#25
Phenanthrene
Concen: 0.353 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

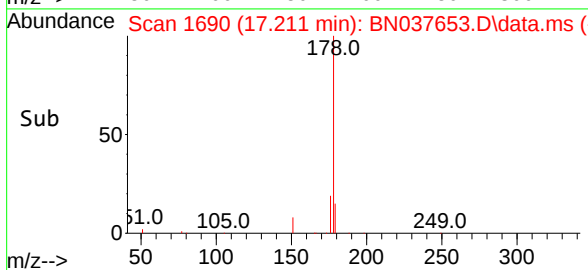
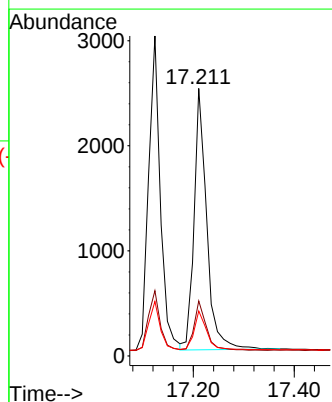
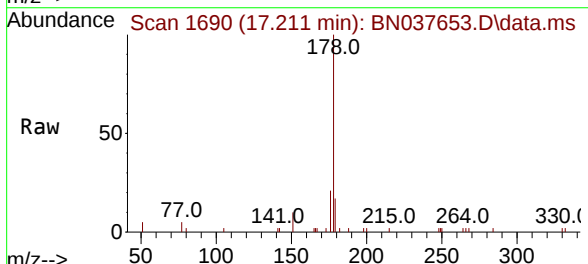
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

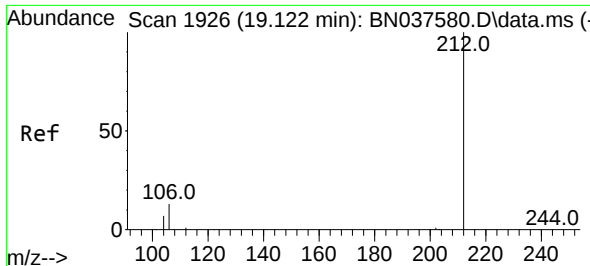
Tgt Ion:178 Resp: 4811
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.360 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:178 Resp: 4337
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 14.8 12.3 18.5

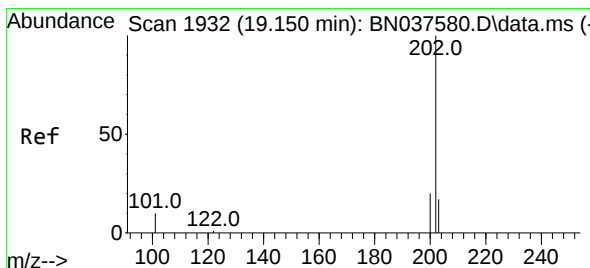
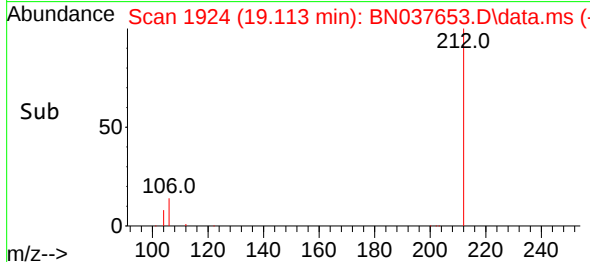
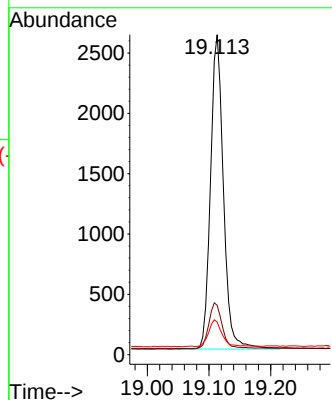
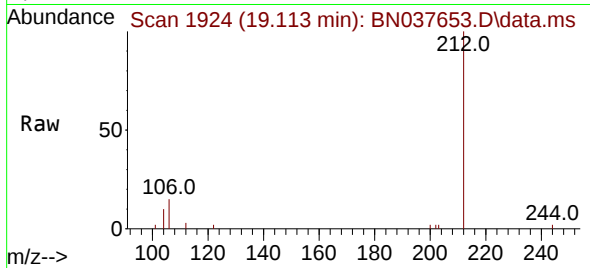




#27
Fluoranthene-d10
Concen: 0.320 ng
RT: 19.113 min Scan# 1913
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

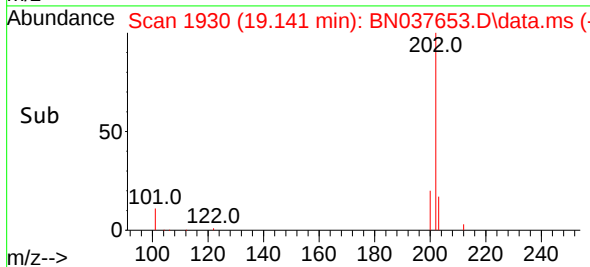
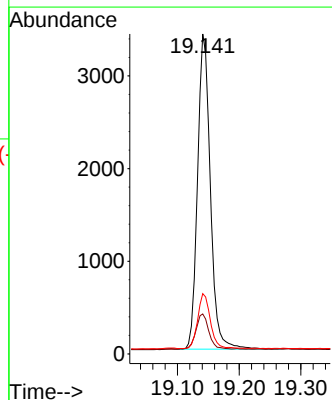
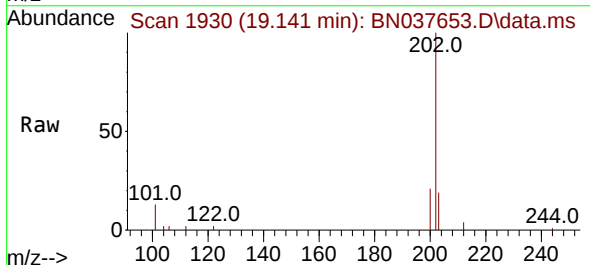
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

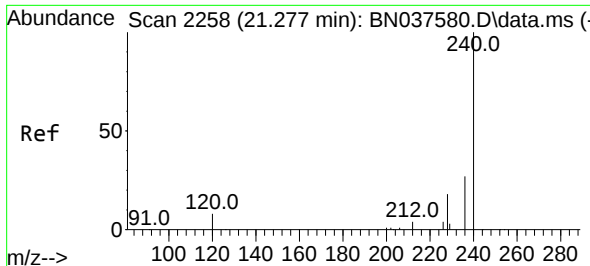
Tgt Ion:212 Resp: 3776
Ion Ratio Lower Upper
212 100
106 15.0 11.5 17.3
104 8.7 6.6 9.8



#28
Fluoranthene
Concen: 0.315 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:202 Resp: 4922
Ion Ratio Lower Upper
202 100
101 11.5 9.0 13.6
203 17.2 13.8 20.8

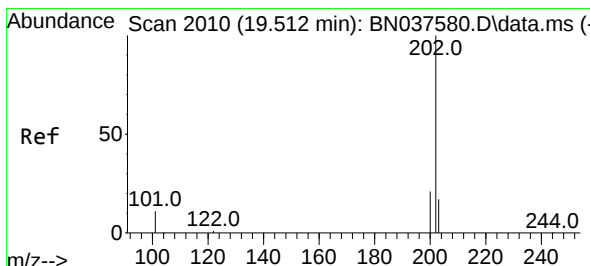
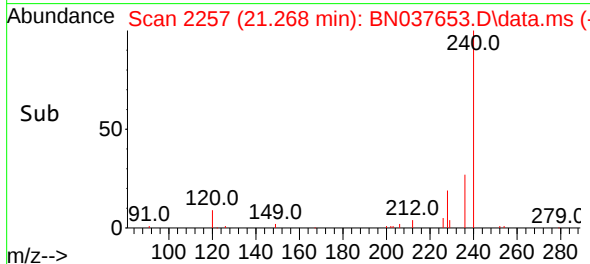
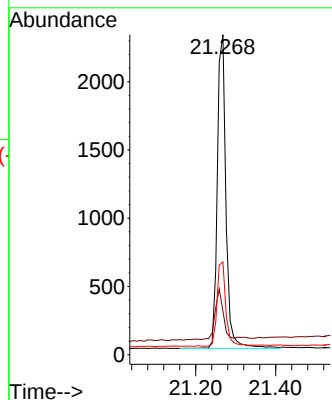
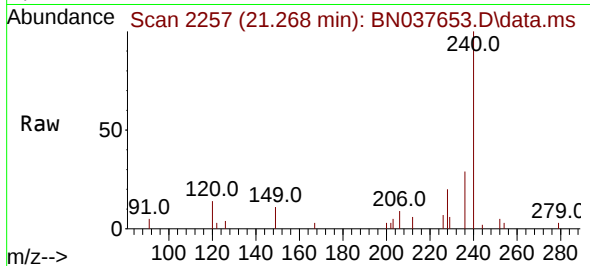




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

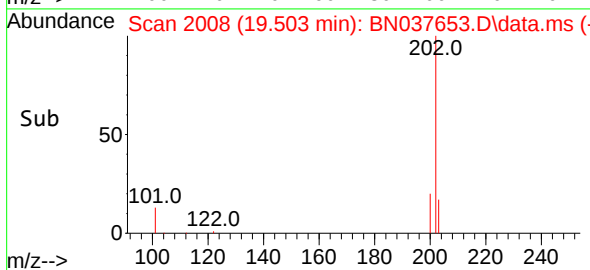
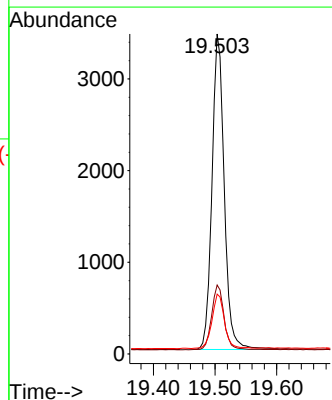
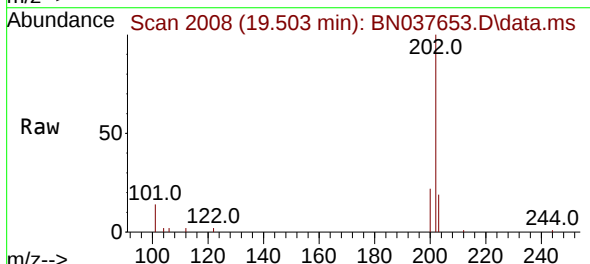
Instrument :
BNA_N
ClientSampleId :
PB169421BSD

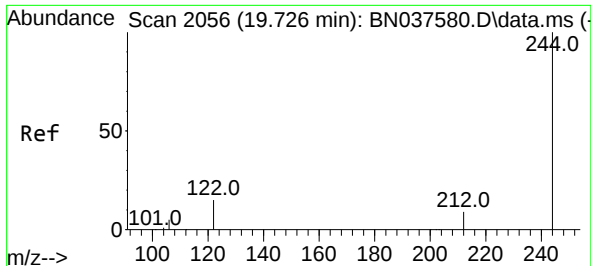
Tgt Ion:240 Resp: 3451
Ion Ratio Lower Upper
240 100
120 13.7 8.9 13.3#
236 29.0 22.6 33.8



#30
Pyrene
Concen: 0.367 ng
RT: 19.503 min Scan# 2008
Delta R.T. -0.009 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:202 Resp: 4739
Ion Ratio Lower Upper
202 100
200 20.5 16.6 25.0
203 17.5 14.3 21.5

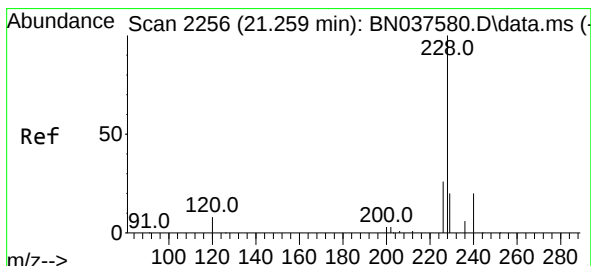
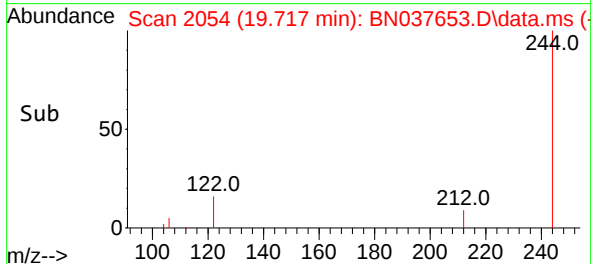
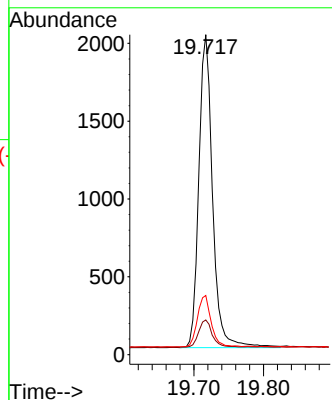
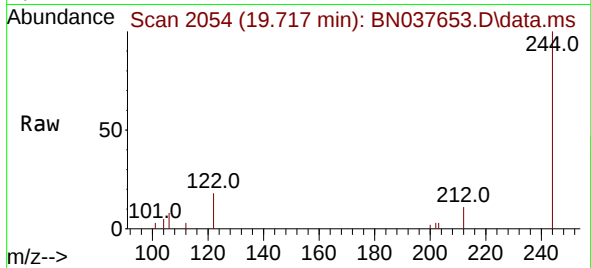




#31
 Terphenyl-d14
 Concen: 0.388 ng
 RT: 19.717 min Scan# 2054
 Delta R.T. -0.009 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

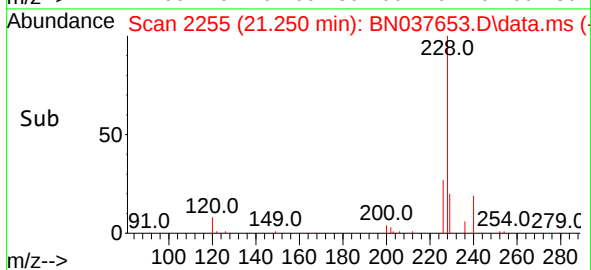
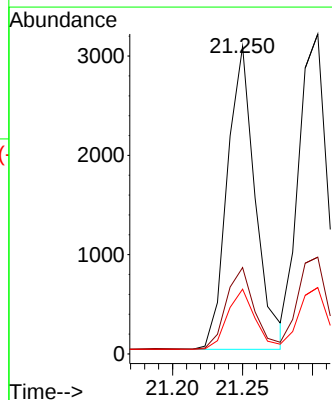
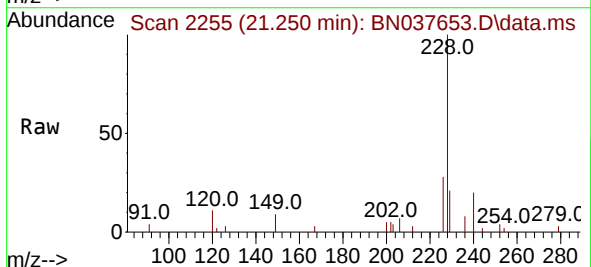
Instrument :
 BNA_N
 ClientSampleId :
 PB169421BSD

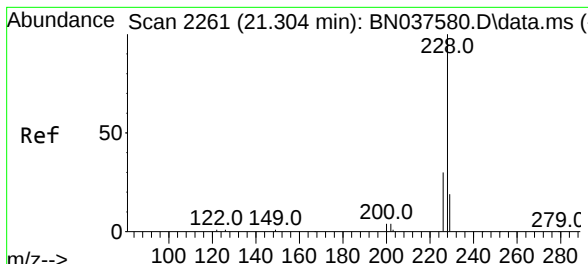
Tgt Ion:244 Resp: 2753
 Ion Ratio Lower Upper
 244 100
 212 10.8 8.2 12.2
 122 18.5 13.2 19.8



#32
 Benzo(a)anthracene
 Concen: 0.370 ng
 RT: 21.250 min Scan# 2255
 Delta R.T. -0.009 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

Tgt Ion:228 Resp: 4262
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.5 32.3
 229 21.1 16.5 24.7

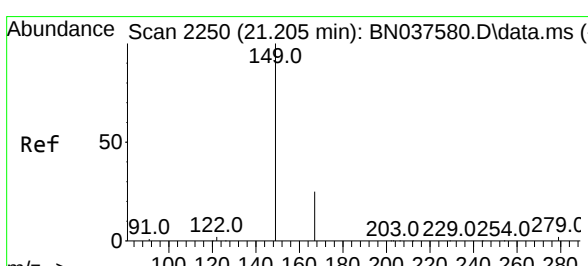
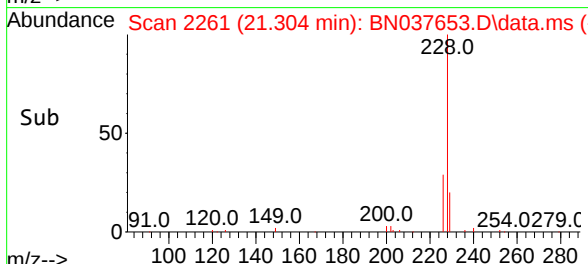
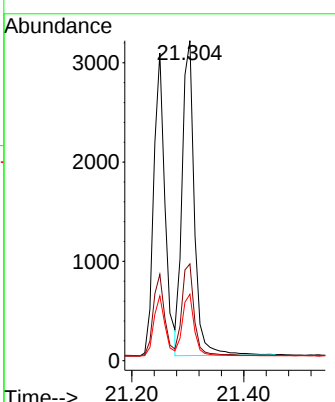
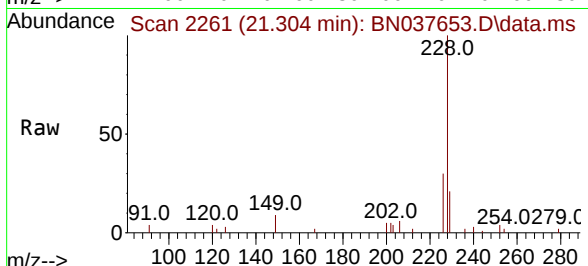




#33
 Chrysene
 Concen: 0.374 ng
 RT: 21.304 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

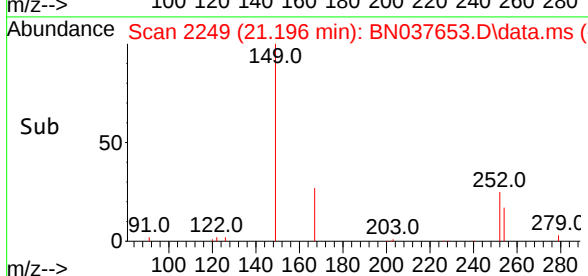
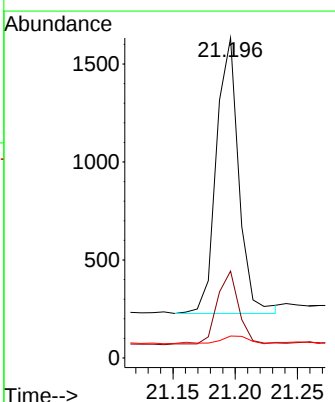
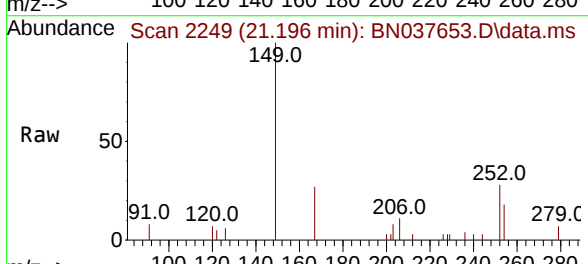
Instrument :
 BNA_N
 ClientSampleId :
 PB169421BSD

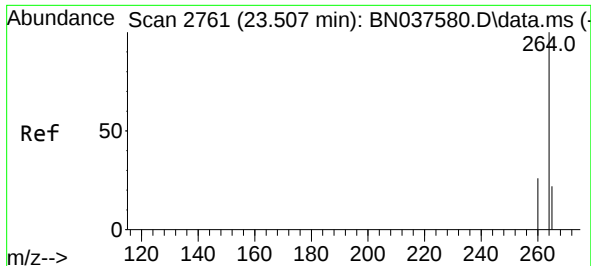
Tgt Ion:	228	Resp:	4808
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.9	37.3
229	20.8	15.8	23.8



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.371 ng
 RT: 21.196 min Scan# 2249
 Delta R.T. -0.009 min
 Lab File: BN037653.D
 Acq: 28 Aug 2025 12:30

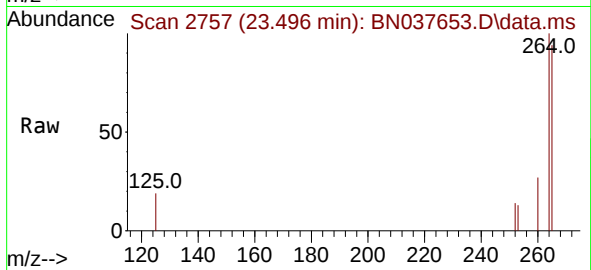
Tgt Ion:	149	Resp:	1764
Ion Ratio	Lower	Upper	
149	100		
167	26.4	20.5	30.7
279	3.6	2.6	4.0



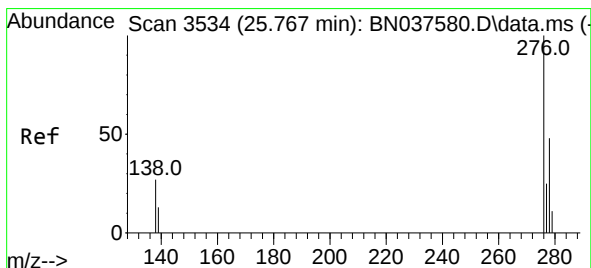
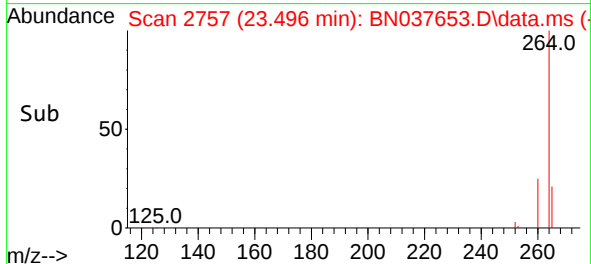
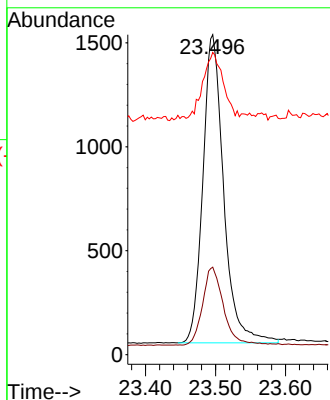


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.496 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Instrument :
BNA_N
ClientSampleId :
PB169421BSD

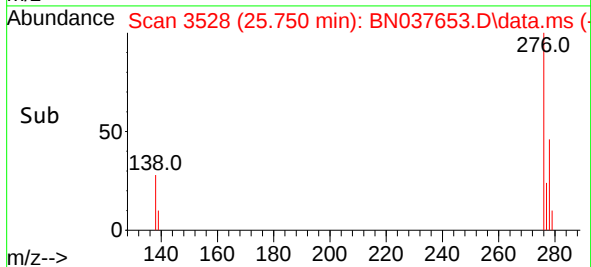
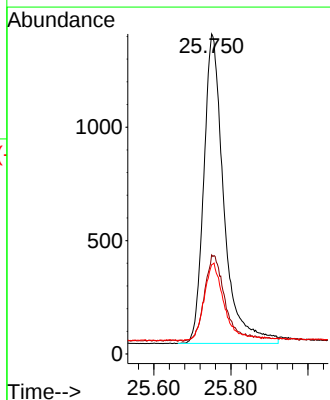
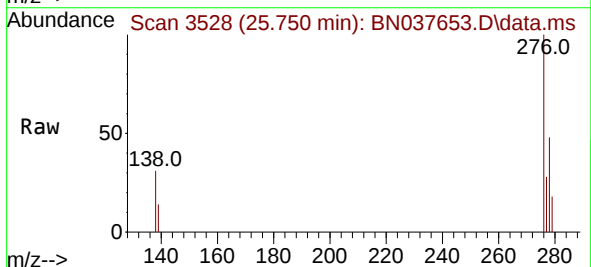


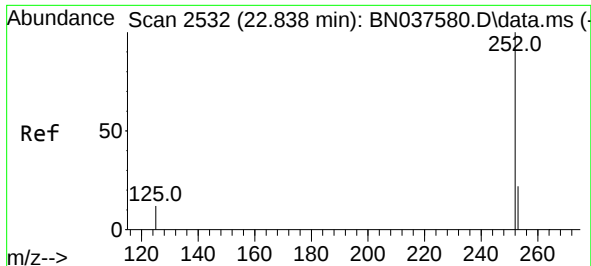
Tgt Ion:264 Resp: 3064
Ion Ratio Lower Upper
264 100
260 27.4 21.6 32.4
265 94.5 48.2 72.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.380 ng
RT: 25.750 min Scan# 3528
Delta R.T. -0.017 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Tgt Ion:276 Resp: 4912
Ion Ratio Lower Upper
276 100
138 28.0 23.3 34.9
277 23.8 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.401 ng

RT: 22.823 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Instrument :

BNA_N

ClientSampleId :

PB169421BSD

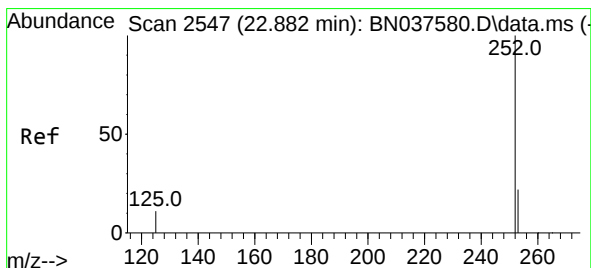
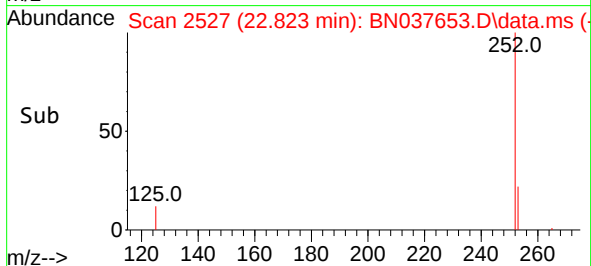
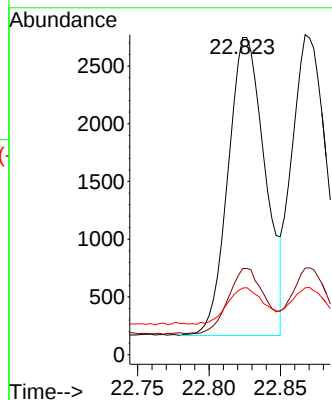
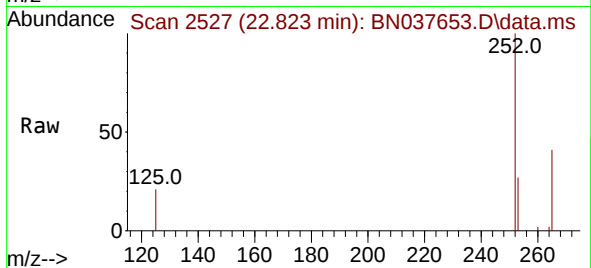
Tgt Ion:252 Resp: 4652

Ion Ratio Lower Upper

252 100

253 27.1 20.0 30.0

125 21.0 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 0.353 ng

RT: 22.867 min Scan# 2542

Delta R.T. -0.014 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

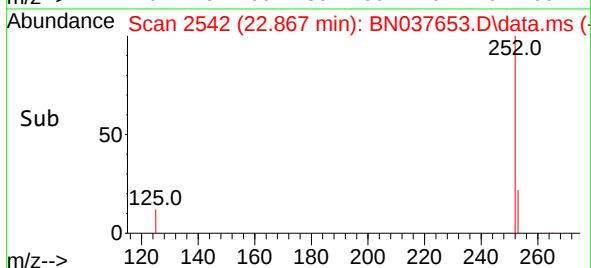
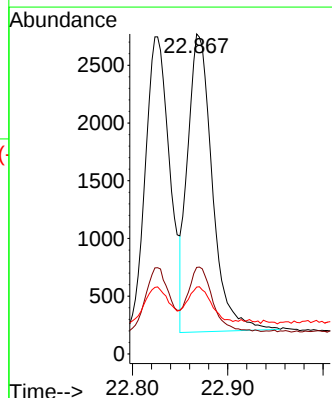
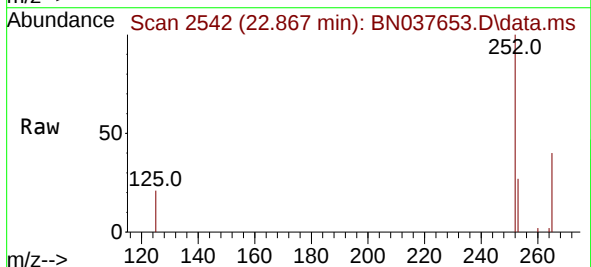
Tgt Ion:252 Resp: 4628

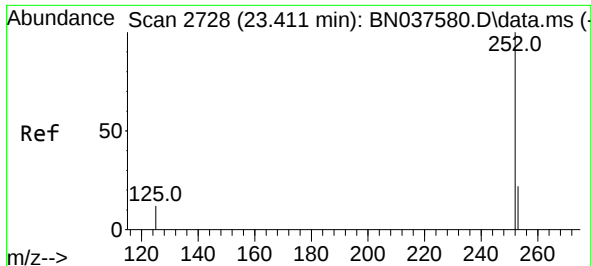
Ion Ratio Lower Upper

252 100

253 27.1 19.9 29.9

125 20.9 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.400 ng

RT: 23.399 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

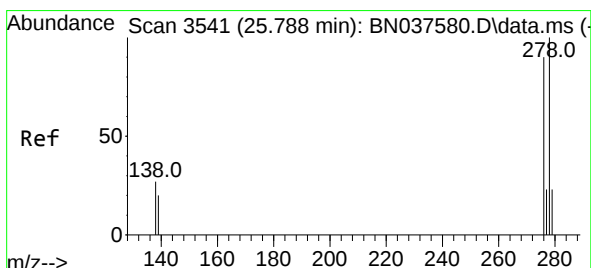
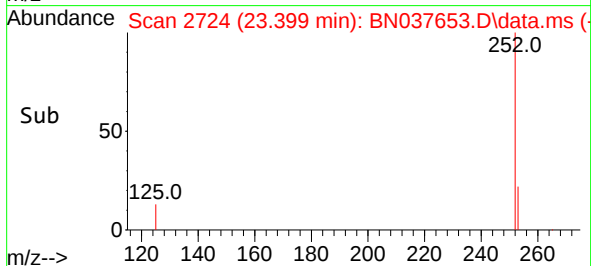
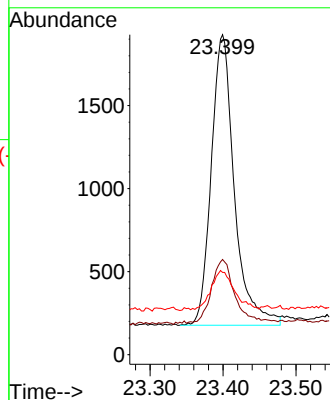
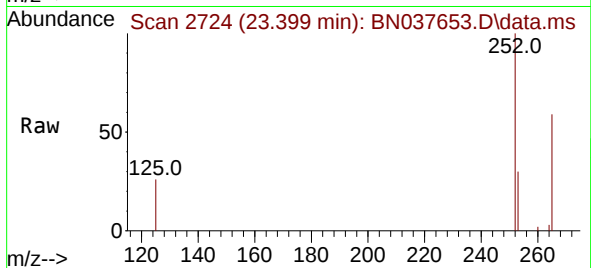
Instrument :

BNA_N

ClientSampleId :

PB169421BSD

Tgt Ion:252	Resp:	3850
Ion Ratio	Lower	Upper
252	100	
253	29.7	21.6 32.4
125	25.7	16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.355 ng

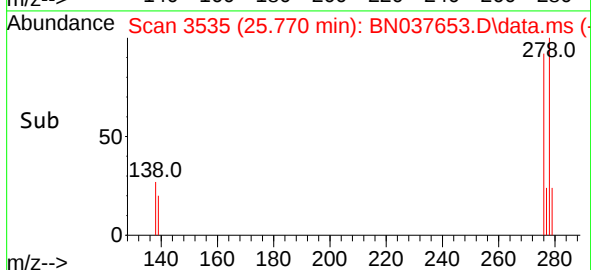
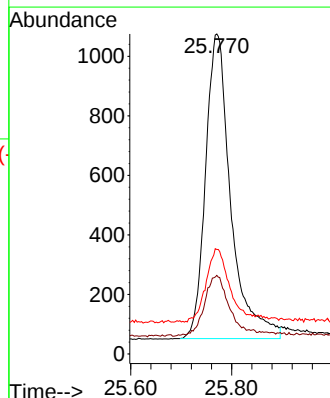
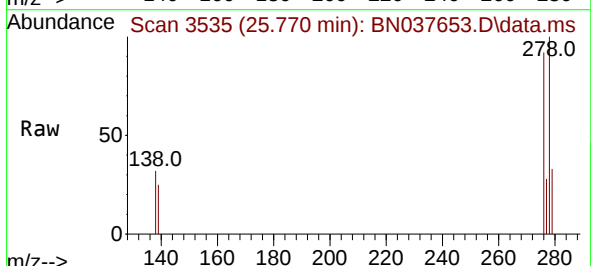
RT: 25.770 min Scan# 3535

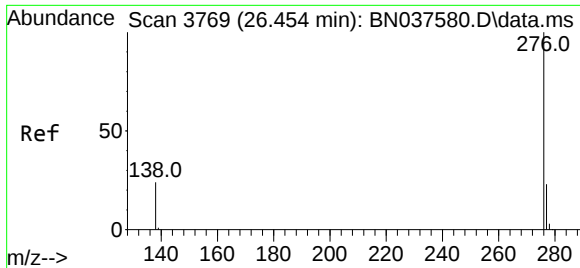
Delta R.T. -0.017 min

Lab File: BN037653.D

Acq: 28 Aug 2025 12:30

Tgt Ion:278	Resp:	3559
Ion Ratio	Lower	Upper
278	100	
139	24.6	18.3 27.5
279	32.7	22.5 33.7





#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.434 min Scan# 31
Delta R.T. -0.020 min
Lab File: BN037653.D
Acq: 28 Aug 2025 12:30

Instrument :
BNA_N
ClientSampleId :
PB169421BSD

Tgt Ion:276 Resp: 4360
Ion Ratio Lower Upper
276 100
277 26.7 21.0 31.4
138 28.4 21.7 32.5

