

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

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

ORDER ID : Q2643
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



1) SEMI-VOLATILE DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For SVOC-SIMGroup1	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) LCS/LCSD Summary	15
9.3) Method Blank Summary	17
9.4) GS/MS Tune Summary	18
9.5) Internal Standard Area and RT Summary	20
10) Sample Data	22
10.1) RW7-SP100-20250717	23
10.2) RW7-SP201-20250717	35
10.3) RW7-SP302-20250717	46
10.4) RW7-SP303-20250717	57
11) Calibration Data Summary	68
11.1) Initial Calibration Data	69
11.1.1) BN071525	69
11.2) Continued Calibration Data	254
11.2.1) BN037532.D	254
11.2.2) BN037546.D	280
12) QC Sample Data	306
12.1) Tune Raw Data	307
12.2) Method Blank Data	315
12.3) LCS Data	325
12.4) LCSD Data	349
13) Manual Integration	373
14) Analytical Runlogs	375
15) Extraction Logs	379
15.1) PB168952.pdf	379
15.2) PB168952IC.pdf	381

Table Of Contents for Q2643

16) Standard Prep Logs	382
17) Shipping Document	440
17.1) Chain Of Custody	441
17.2) Lab Certificate	442

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

Cover Page

Order ID : Q2643

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2643-01
Q2643-02
Q2643-03
Q2643-04

Client Sample Number

RW7-SP100-20250717
RW7-SP201-20250717
RW7-SP302-20250717
RW7-SP303-20250717

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

Signature : _____

Date: 7/26/2025

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 # Q2643

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 07/18/2025.

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 PB168952BS [2-Fluorobiphenyl - 107%]. Failed surrogate is not associated with DOD, therefor no further corrective action was taken.

The Internal Standards Areas were met for all analysis except for PB168952BS and PB168952BSD. Failed Internal standard is not associated with DOD, Therefor no further corrective action was taken.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration File ID BN037532.D met the requirements except for 2,4,6-Tribromophenol. it is not associated with reporting list , Therefor no further corrective action was taken.

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.

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: Q2643

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓

The Initial Calibration met the requirements.

The Continuous Calibration File ID BN037532.D met the requirements except for 2,4,6-Tribromophenol. it is not associated with reporting list , Therefor no further corrective action was taken.

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria			✓

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries were met for all analysis except for PB168952BS [2-Fluorobiphenyl - 107%]. Failed surrogate is not associated with DOD, therefor no further corrective action was taken.

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

		NA	NO	YES
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.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas were met for all analysis except for PB168952BS and PB168952BSD. Failed Internal standard is not associated with DOD, Therefore no further corrective action was taken.			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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

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

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2643

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 07/26/2025

LAB CHRONICLE

OrderID:	Q2643	OrderDate:	7/18/2025 11:17:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	O52

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2643-01	RW7-SP100-2025071 7	Water			07/17/25			07/18/25
			SVOC-SIMGroup1	8270-Modified		07/21/25	07/22/25	
Q2643-02	RW7-SP201-2025071 7	Water			07/17/25			07/18/25
			SVOC-SIMGroup1	8270-Modified		07/21/25	07/22/25	
Q2643-03	RW7-SP302-2025071 7	Water			07/17/25			07/18/25
			SVOC-SIMGroup1	8270-Modified		07/21/25	07/22/25	
Q2643-04	RW7-SP303-2025071 7	Water			07/17/25			07/18/25
			SVOC-SIMGroup1	8270-Modified		07/21/25	07/22/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2643

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW7-SP100-20250717							
Q2643-01	RW7-SP100-20250717	WATER	1,4-Dioxane	3.200	0.07	0.2	0.2	ug/L
Total Svoc :				3.20				
Total Concentration:				3.20				



QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q2643

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168952BL	PB168952BL	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.31	76		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168952BS	PB168952BS	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.30	76		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.43	107	*	53	106
		Terphenyl-d14	0.4	0.39	98		58	132
PB168952BSD	PB168952BSD	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.31	76		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.36	89		58	132
Q2643-01	RW7-SP100-20250717	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q2643-02	RW7-SP201-20250717	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2643-03	RW7-SP302-20250717	2-Methylnaphthalene-d10	0.4	0.25	63		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q2643-04	RW7-SP303-20250717	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.42	106		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2643</u>	Analytical Method:	<u>8270-Modified</u>
Client:	<u>Tetra Tech NUS, Inc.</u>	DataFile:	<u>BN037544.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	
								Qual		High	RPD
PB168952BS	1,4-Dioxane	0.4	0.30	ug/L	75				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2643</u>	Analytical Method:	<u>8270-Modified</u>
Client:	<u>Tetra Tech NUS, Inc.</u>	DataFile:	<u>BN037545.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168952BSD	1,4-Dioxane	0.4	0.30	ug/L	75	0			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB168952BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2643

Lab File ID: BN037533.D

Lab Sample ID: PB168952BL

Instrument ID: BNA_N

Date Extracted: 07/21/2025

Matrix: (soil/water) Water

Date Analyzed: 07/22/2025

Level: (low/med) LOW

Time Analyzed: 11:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168952BS	PB168952BS	BN037544.D	07/22/2025
RW7-SP100-20250717	Q2643-01	BN037537.D	07/22/2025
RW7-SP201-20250717	Q2643-02	BN037538.D	07/22/2025
RW7-SP302-20250717	Q2643-03	BN037539.D	07/22/2025
PB168952BSD	PB168952BSD	BN037545.D	07/22/2025
RW7-SP303-20250717	Q2643-04	BN037540.D	07/22/2025

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

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

Contract: TETR06
SDG NO.: Q2643
DFTPP Injection Date: 07/15/2025
DFTPP Injection Time: 10:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	83.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.4 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037499.D	07/15/2025	12:36
SSTDICC0.2	SSTDICC0.2	BN037500.D	07/15/2025	13:12
SSTDICCC0.4	SSTDICCC0.4	BN037501.D	07/15/2025	13:49
SSTDICC0.8	SSTDICC0.8	BN037502.D	07/15/2025	14:25
SSTDICC1.6	SSTDICC1.6	BN037503.D	07/15/2025	15:01
SSTDICC3.2	SSTDICC3.2	BN037504.D	07/15/2025	15:38
SSTDICC5.0	SSTDICC5.0	BN037505.D	07/15/2025	16:14



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037531.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2643
DFTPP Injection Date: 07/22/2025
DFTPP Injection Time: 10:07

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
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	80.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (21.3) 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	BN037532.D	07/22/2025	10:51
PB168952BL	PB168952BL	BN037533.D	07/22/2025	11:28
RW7-SP100-20250717	Q2643-01	BN037537.D	07/22/2025	13:52
RW7-SP201-20250717	Q2643-02	BN037538.D	07/22/2025	14:28
RW7-SP302-20250717	Q2643-03	BN037539.D	07/22/2025	15:04
RW7-SP303-20250717	Q2643-04	BN037540.D	07/22/2025	15:40
PB168952BS	PB168952BS	BN037544.D	07/22/2025	18:05
PB168952BSD	PB168952BSD	BN037545.D	07/22/2025	18:41
SSTDCCC0.4EC	SSTDCCC0.4	BN037546.D	07/22/2025	19:17

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2643

Client ID : SSTDCCC0.4

Date Analyzed: 07/22/2025

Lab File ID: BN037532.D

Time Analyzed: 10:51

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	2751	7.717	7206	10.50	3790	14.36
UPPER LIMIT	5502	8.217	14412	10.998	7580	14.855
LOWER LIMIT	1375.5	7.217	3603	9.998	1895	13.855
EPA SAMPLE NO.						
01 PB168952BL	3218	7.72	8001	10.51	4007	14.36
02 PB168952BS	2046	7.72	5016	10.50	2405	14.36
03 PB168952BSD	1815	7.72	4389	10.50	2110	14.36
04 RW7-SP100-20250717	2157	7.72	5570	10.50	3011	14.36
05 RW7-SP201-20250717	2010	7.72	4891	10.51	2544	14.36
06 RW7-SP302-20250717	1999	7.72	5002	10.51	2550	14.36
07 RW7-SP303-20250717	1802	7.72	4415	10.51	2297	14.36

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2643

Client ID: SSTDCCC0.4

Date Analyzed: 07/22/2025

Lab File ID: BN037532.D

Time Analyzed: 10:51

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	7043	17.086	6014	21.277	5778	23.513
UPPER LIMIT	14086	17.586	12028	21.777	11556	24.013
LOWER LIMIT	3521.5	16.586	3007	20.777	2889	23.013
EPA SAMPLE NO.						
01 PB168952BL	6964	17.10	4782	21.28	4734	23.51
02 PB168952BS	4507	17.09	3057	21.27	2587 *	23.51
03 PB168952BSD	4034	17.09	3054	21.27	2644 *	23.51
04 RW7-SP100-20250717	5819	17.09	4394	21.28	3754	23.51
05 RW7-SP201-20250717	4844	17.09	3799	21.28	3347	23.51
06 RW7-SP302-20250717	4929	17.09	3886	21.28	3365	23.51
07 RW7-SP303-20250717	4425	17.09	3605	21.28	3019	23.51

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/18/25
Client Sample ID:	RW7-SP100-20250717	SDG No.:	Q2643
Lab Sample ID:	Q2643-01	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
BN037537.D	1	07/21/25 09:10	07/22/25 13:52	PB168952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2160	7.724				
1146-65-2	Naphthalene-d8	5570	10.498				
15067-26-2	Acenaphthene-d10	3010	14.356				
1517-22-2	Phenanthrene-d10	5820	17.087				
1719-03-5	Chrysene-d12	4390	21.277				
1520-96-3	Perylene-d12	3750	23.513				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037537.D
Acq On : 22 Jul 2025 13:52
Operator : RC/JU
Sample : Q2643-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

Quant Time: Jul 22 14:49:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

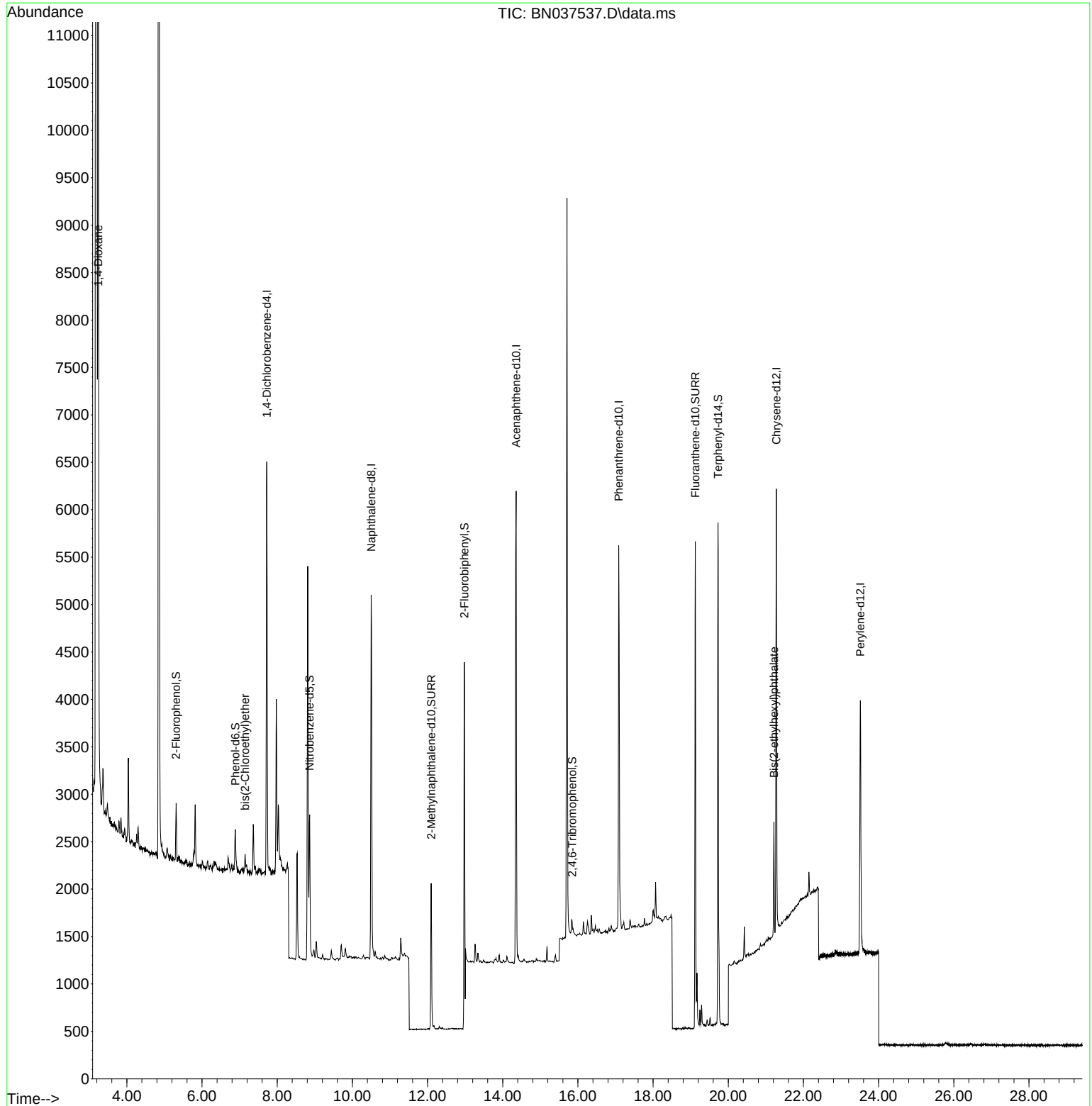
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2157	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5570	0.400	ng	#-0.01
13) Acenaphthene-d10	14.356	164	3011	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5819	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	4394	0.400	ng	0.00
35) Perylene-d12	23.513	264	3754	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	483	0.091	ng	0.00
5) Phenol-d6	6.887	99	429	0.064	ng	0.00
8) Nitrobenzene-d5	8.865	82	1293	0.311	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	2205	0.276	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	106	0.072	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4999	0.319	ng	0.00
27) Fluoranthene-d10	19.123	212	5622	0.365	ng	0.00
31) Terphenyl-d14	19.726	244	4981	0.528	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	6628	3.196	ng	97
6) bis(2-Chloroethyl)ether	7.147	93	127	0.023	ng	# 89
34) Bis(2-ethylhexyl)phtha...	21.214	149	1085	0.157	ng	95

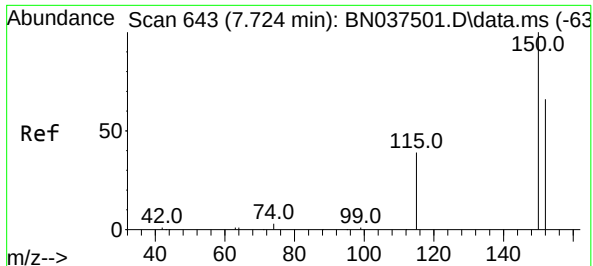
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037537.D
Acq On : 22 Jul 2025 13:52
Operator : RC/JU
Sample : Q2643-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

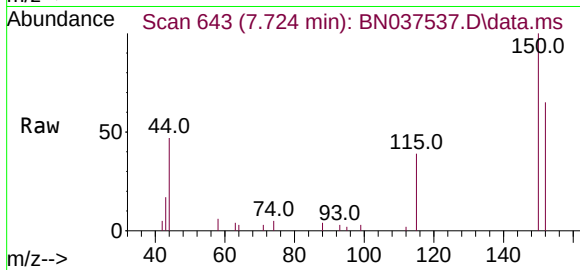
Quant Time: Jul 22 14:49:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration



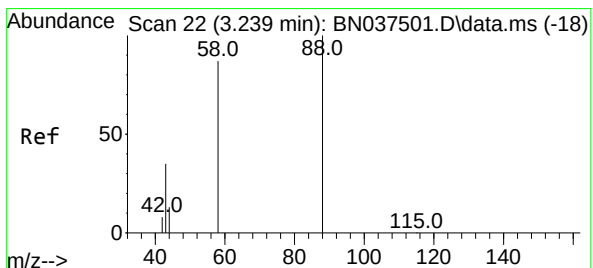
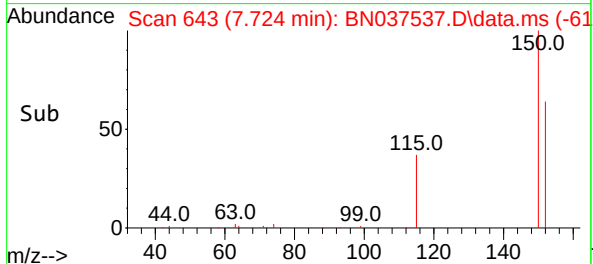
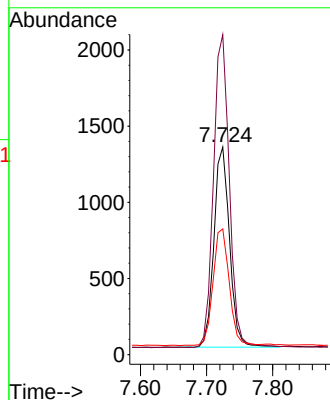


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

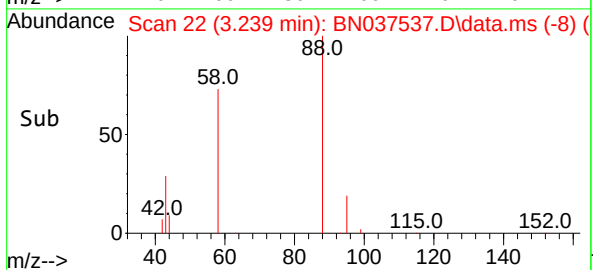
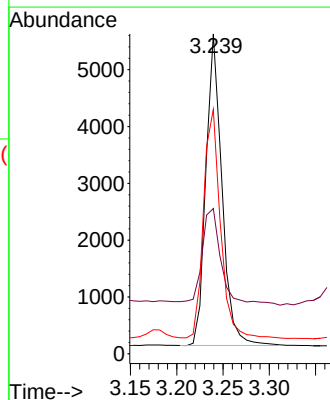
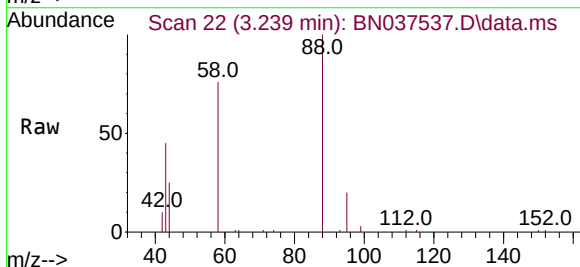


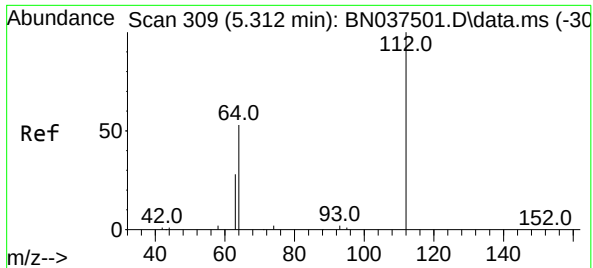
Tgt Ion:152 Resp: 2157
Ion Ratio Lower Upper
152 100
150 154.1 119.8 179.8
115 60.5 49.1 73.7



#2
1,4-Dioxane
Concen: 3.196 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

Tgt Ion: 88 Resp: 6628
Ion Ratio Lower Upper
88 100
43 37.1 27.5 41.3
58 76.8 62.7 94.1

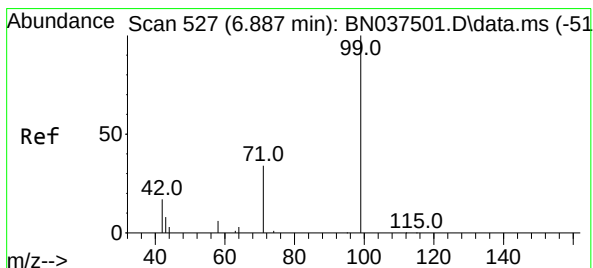
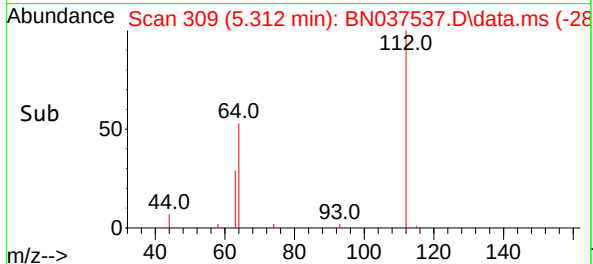
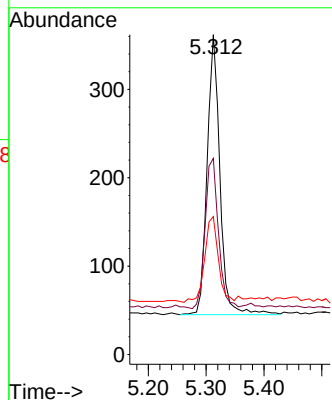
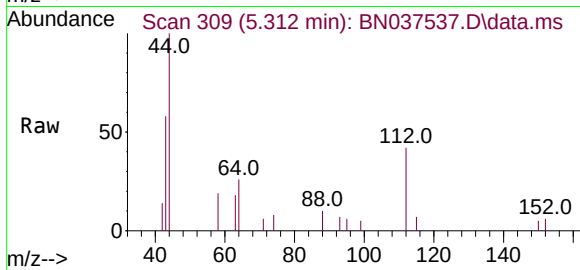




#4
2-Fluorophenol
Concen: 0.091 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

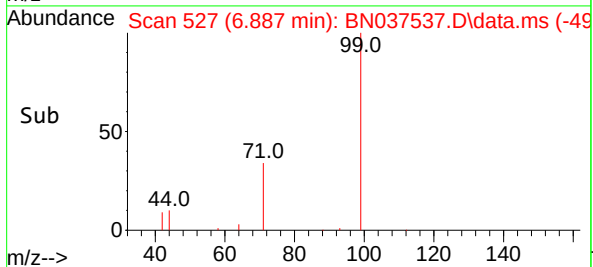
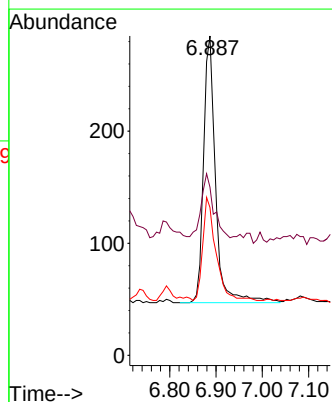
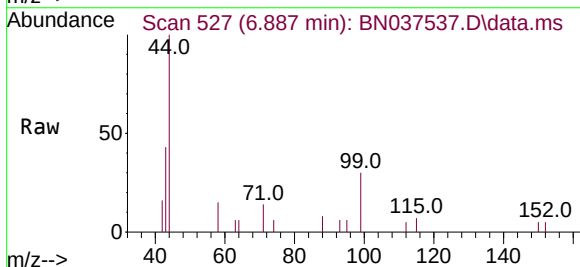
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

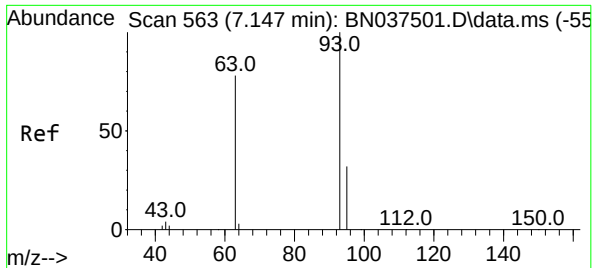
Tgt Ion:	112	Resp:	483
Ion	Ratio	Lower	Upper
112	100		
64	55.9	45.1	67.7
63	32.7	23.8	35.8



#5
Phenol-d6
Concen: 0.064 ng
RT: 6.887 min Scan# 527
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

Tgt Ion:	99	Resp:	429
Ion	Ratio	Lower	Upper
99	100		
42	24.2	17.1	25.7
71	41.3	27.8	41.8

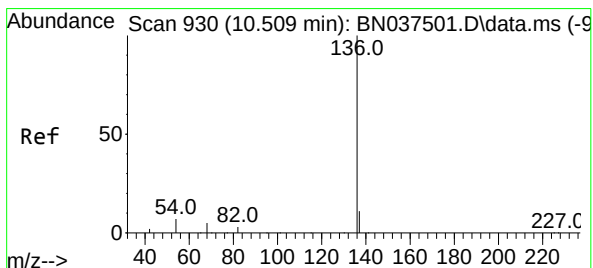
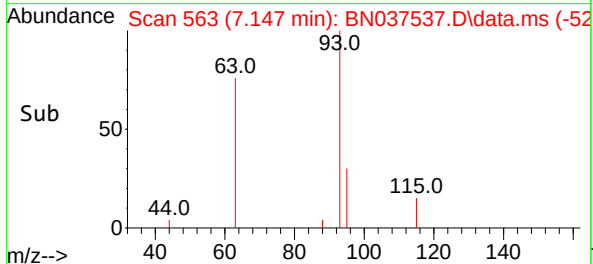
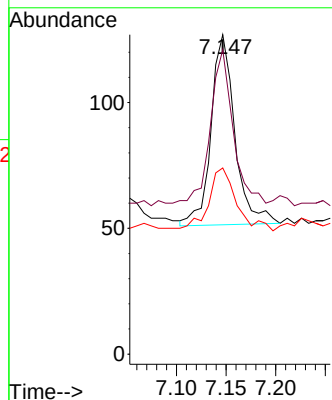
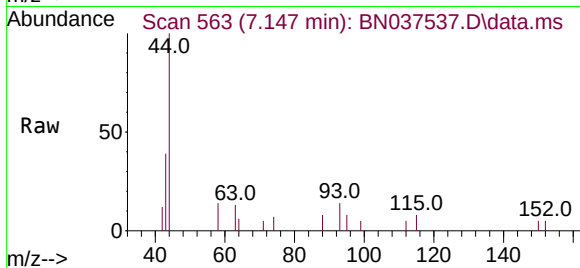




#6
bis(2-Chloroethyl)ether
Concen: 0.023 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

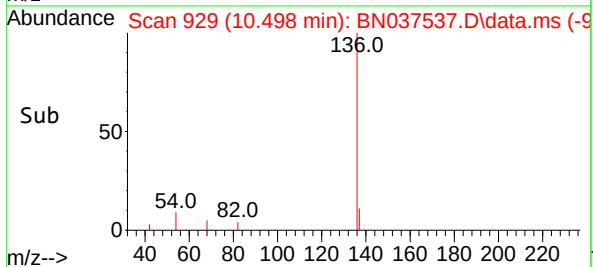
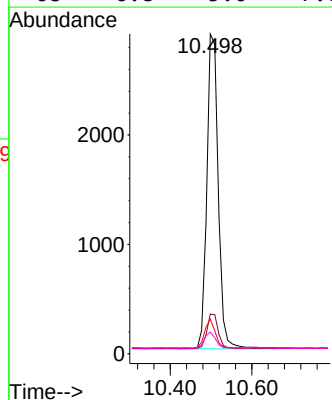
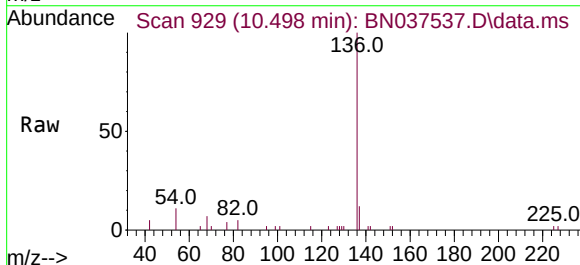
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

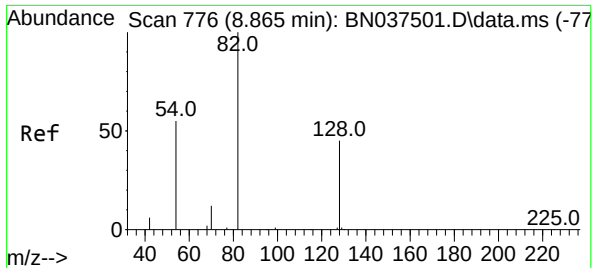
Tgt Ion:	93	Resp:	127
Ion	Ratio	Lower	Upper
93	100		
63	81.1	58.2	87.4
95	38.6	25.3	37.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

Tgt Ion:	136	Resp:	5570
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.8	14.8
54	10.9	6.6	9.8
68	6.8	5.0	7.6

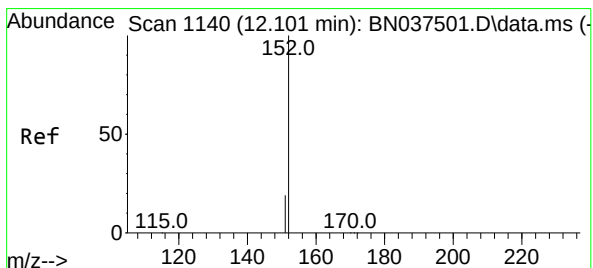
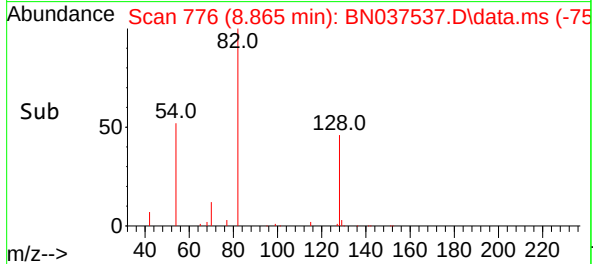
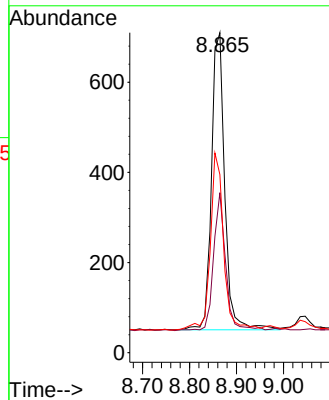
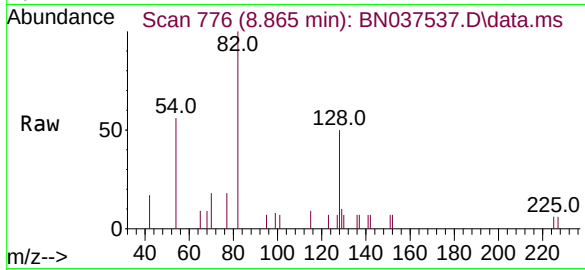




#8
Nitrobenzene-d5
Concen: 0.311 ng
RT: 8.865 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

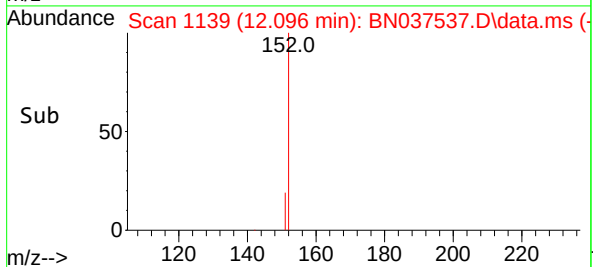
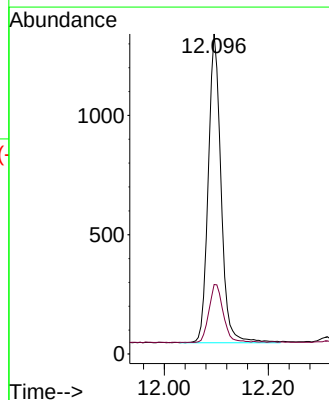
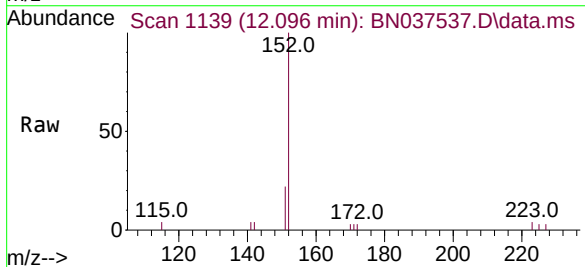
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

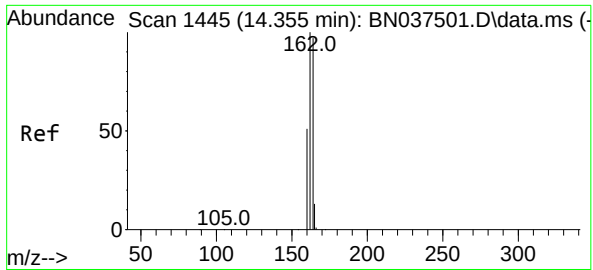
Tgt Ion	Ratio	Lower	Upper
82	100		
128	50.0	37.5	56.3
54	55.6	45.3	67.9



#11
2-Methylnaphthalene-d10
Concen: 0.276 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.8	25.2

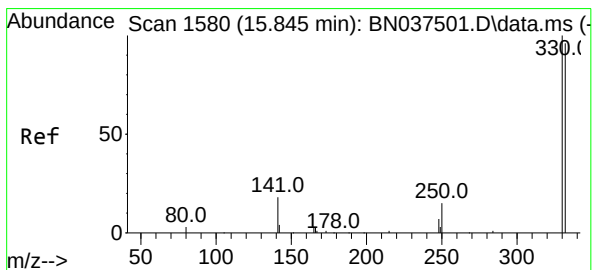
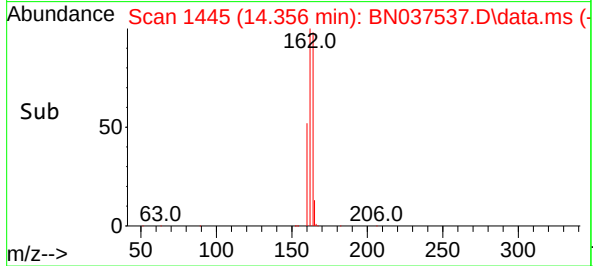
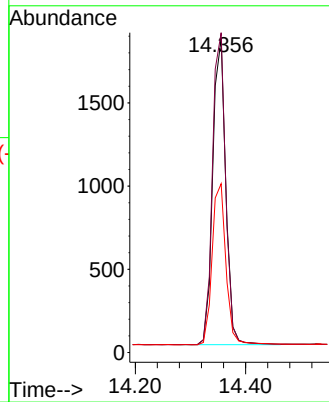
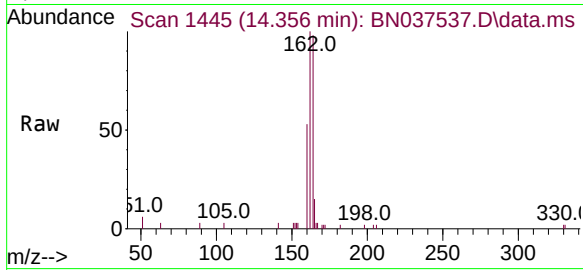




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

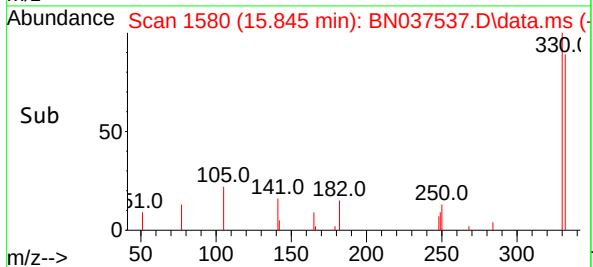
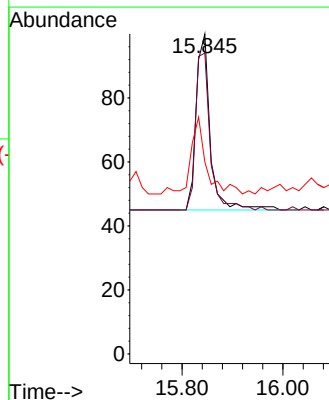
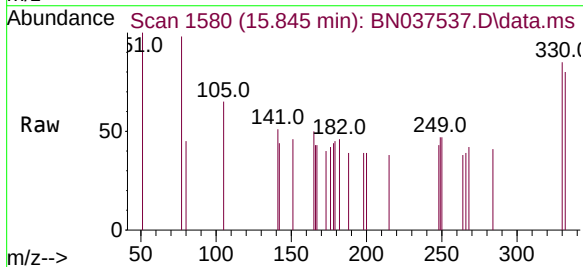
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

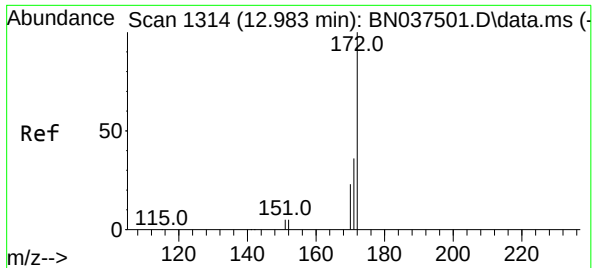
Tgt Ion:	164	Resp:	3011
Ion Ratio	Lower	Upper	
164	100		
162	101.9	82.0	123.0
160	53.8	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.072 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

Tgt Ion:	330	Resp:	106
Ion Ratio	Lower	Upper	
330	100		
332	92.5	76.1	114.1
141	49.1	33.4	50.0

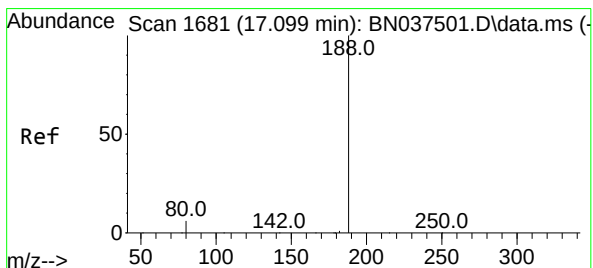
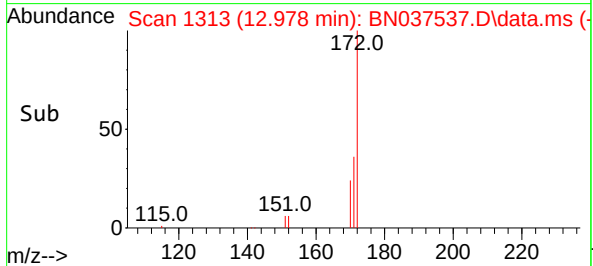
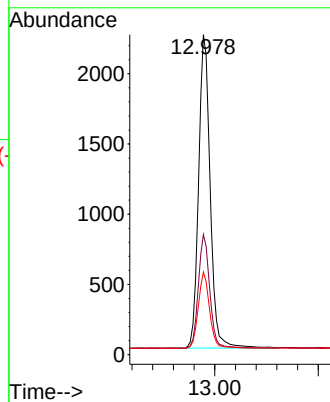
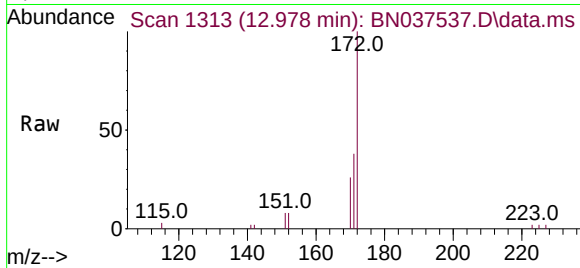




#15
2-Fluorobiphenyl
Concen: 0.319 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

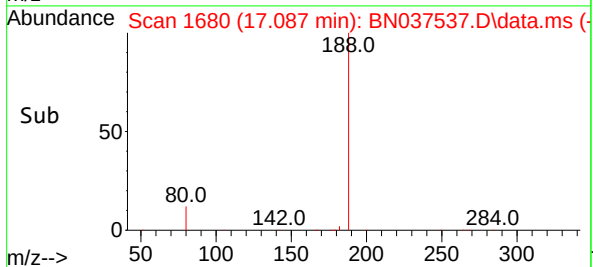
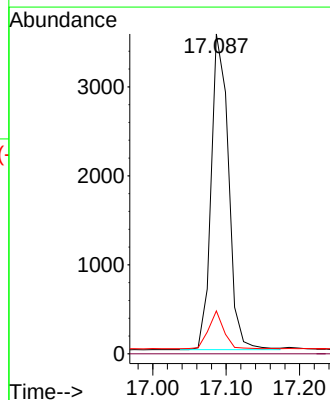
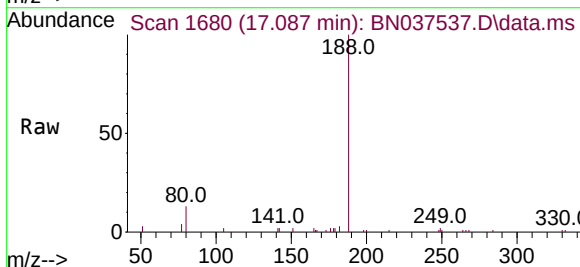
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

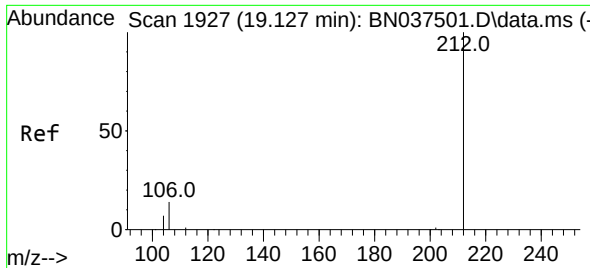
Tgt Ion:	172	Resp:	4999
Ion Ratio	Lower	Upper	
172	100		
171	37.5	29.4	44.2
170	25.8	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

Tgt Ion:	188	Resp:	5819
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.4	6.0	9.0#





#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 19.123 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037537.D

Acq: 22 Jul 2025 13:52

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250717

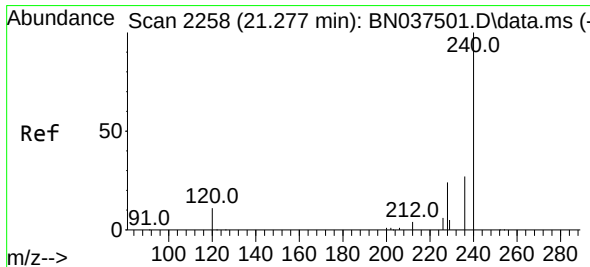
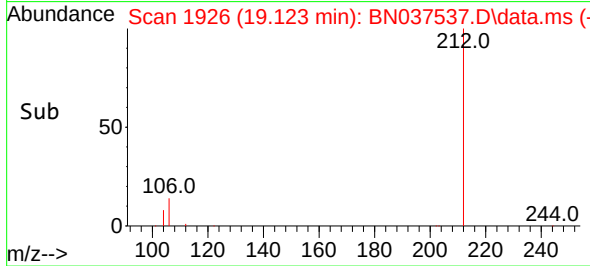
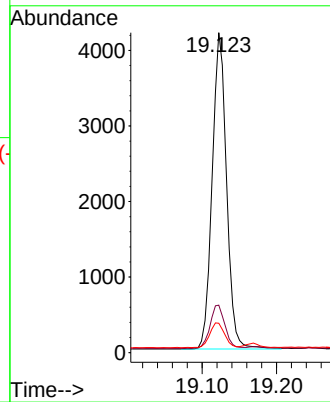
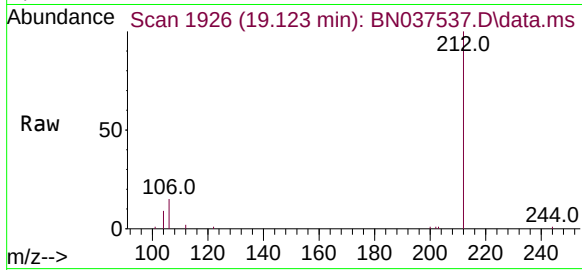
Tgt Ion:212 Resp: 5622

Ion Ratio Lower Upper

212 100

106 14.2 12.2 18.4

104 8.1 6.7 10.1



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 2258

Delta R.T. 0.000 min

Lab File: BN037537.D

Acq: 22 Jul 2025 13:52

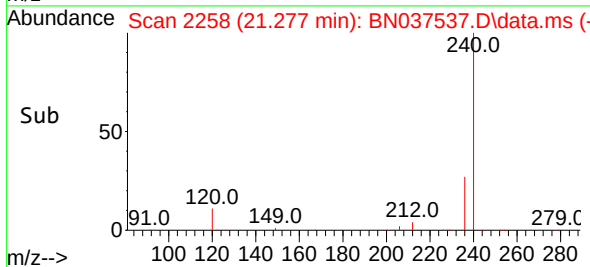
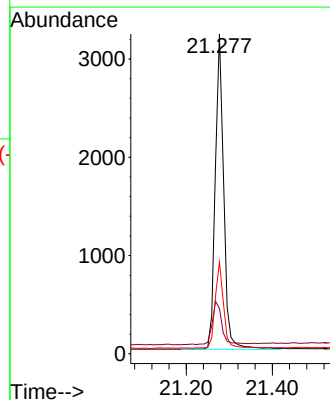
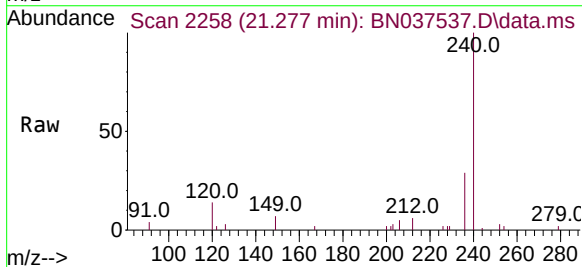
Tgt Ion:240 Resp: 4394

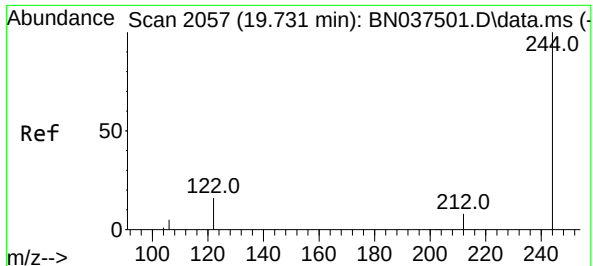
Ion Ratio Lower Upper

240 100

120 14.2 10.7 16.1

236 28.7 22.6 33.8

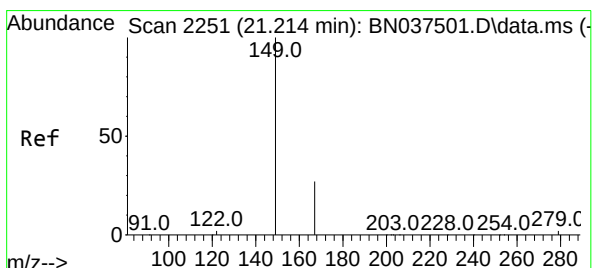
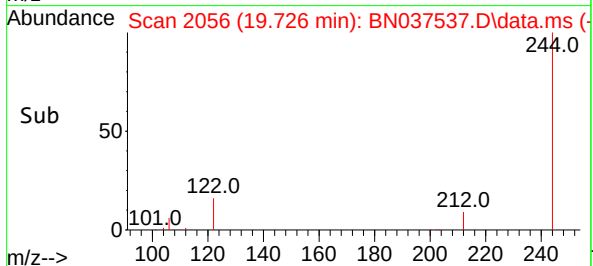
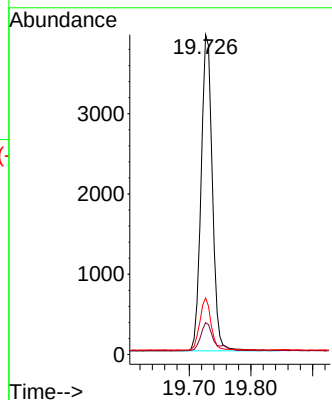
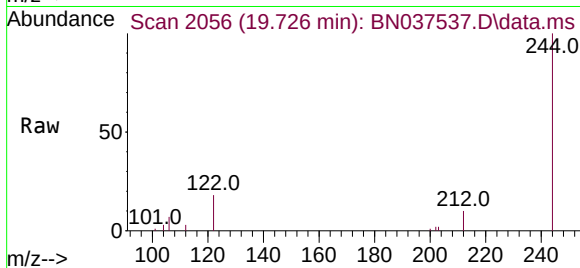




#31
Terphenyl-d14
Concen: 0.528 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

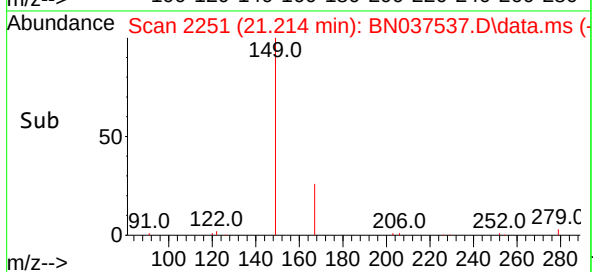
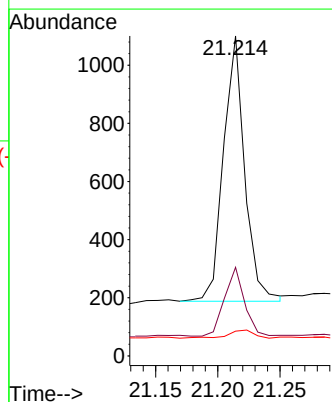
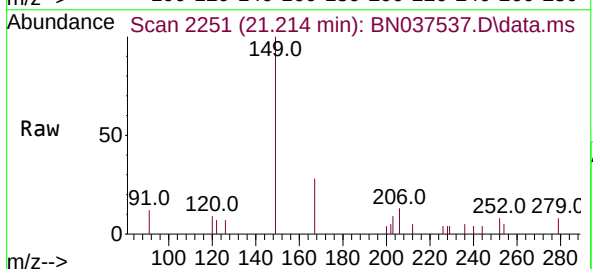
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250717

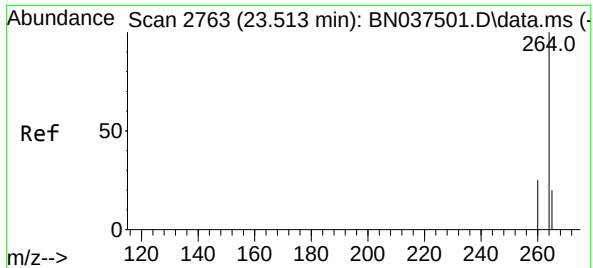
Tgt Ion:244	Resp:	4981
Ion Ratio	Lower	Upper
244	100	
212	10.0	7.4 11.2
122	17.7	13.6 20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.157 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN037537.D
Acq: 22 Jul 2025 13:52

Tgt Ion:149	Resp:	1085
Ion Ratio	Lower	Upper
149	100	
167	24.2	21.8 32.8
279	3.6	3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.513 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037537.D

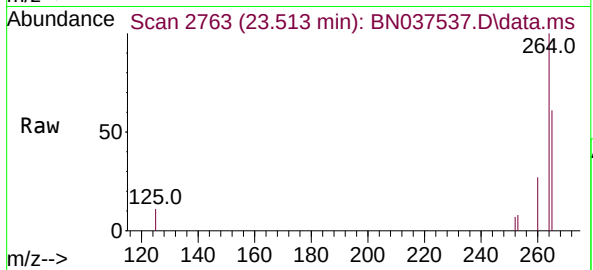
Acq: 22 Jul 2025 13:52

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250717



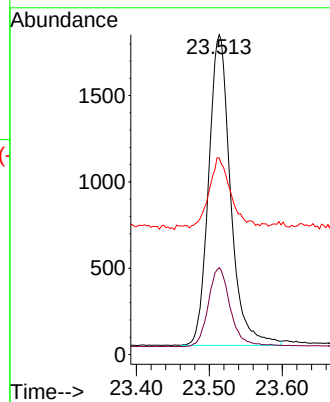
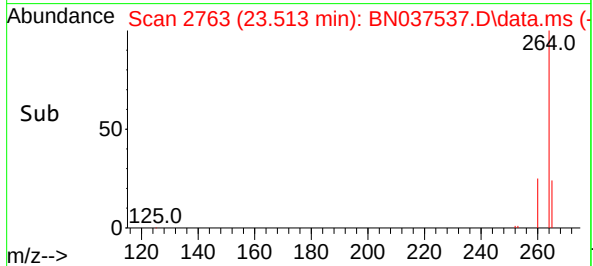
Tgt Ion:264 Resp: 3754

Ion Ratio Lower Upper

264 100

260 27.1 21.2 31.8

265 61.4 40.4 60.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/18/25
Client Sample ID:	RW7-SP201-20250717	SDG No.:	Q2643
Lab Sample ID:	Q2643-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037538.D	1	07/21/25 09:10	07/22/25 14:28	PB168952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2010	7.724				
1146-65-2	Naphthalene-d8	4890	10.509				
15067-26-2	Acenaphthene-d10	2540	14.355				
1517-22-2	Phenanthrene-d10	4840	17.086				
1719-03-5	Chrysene-d12	3800	21.277				
1520-96-3	Perylene-d12	3350	23.511				

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\BN072225\
Data File : BN037538.D
Acq On : 22 Jul 2025 14:28
Operator : RC/JU
Sample : Q2643-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

Quant Time: Jul 22 14:51:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

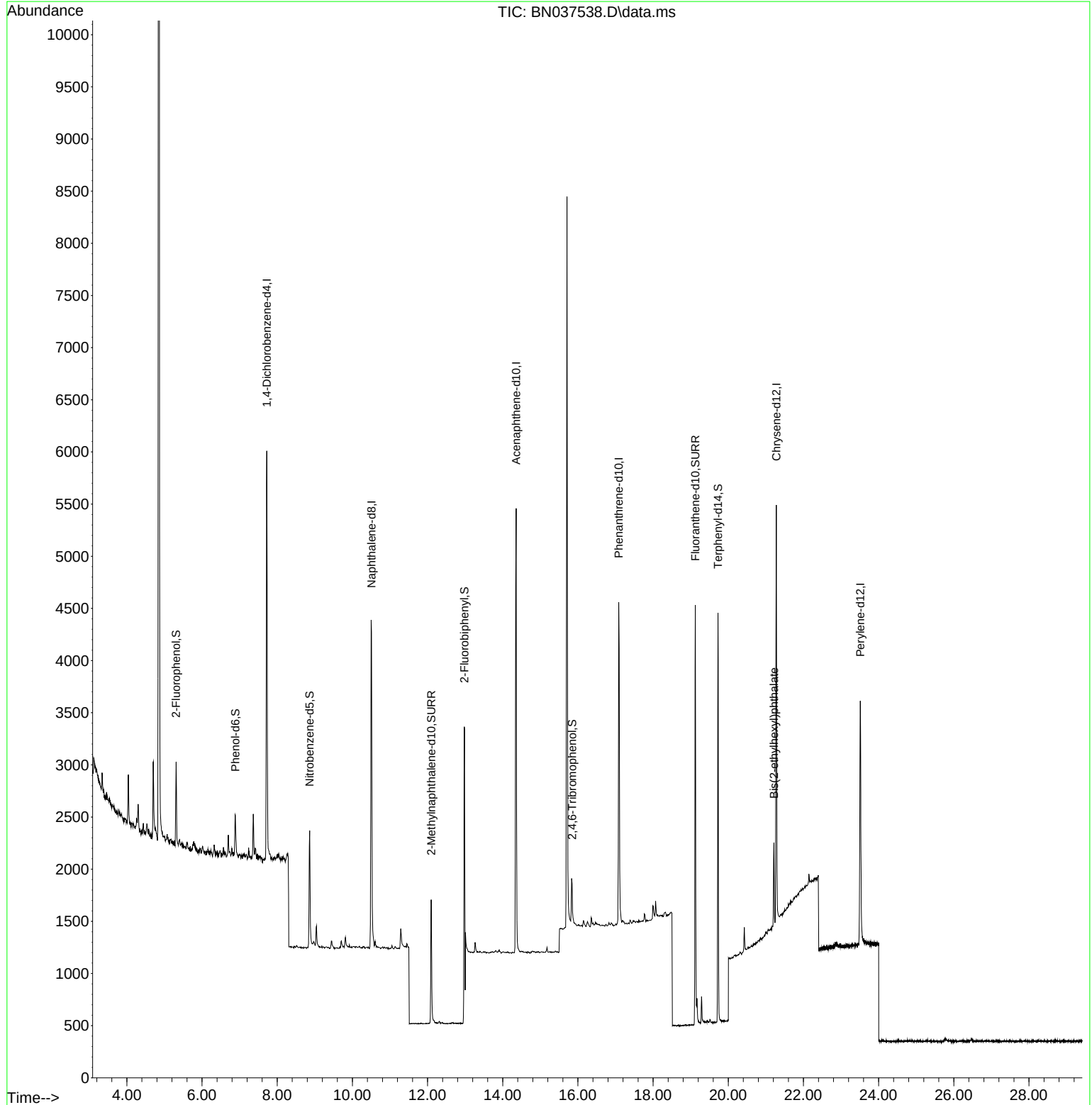
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2010	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4891	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2544	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4844	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3799	0.400	ng	0.00
35) Perylene-d12	23.511	264	3347	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	589	0.118	ng	0.00
5) Phenol-d6	6.887	99	389	0.062	ng	0.00
8) Nitrobenzene-d5	8.865	82	1046	0.286	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1804	0.257	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	296	0.237	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	3984	0.301	ng	0.00
27) Fluoranthene-d10	19.122	212	4529	0.353	ng	0.00
31) Terphenyl-d14	19.726	244	3662	0.449	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	825	0.138	ng	Qvalue 94

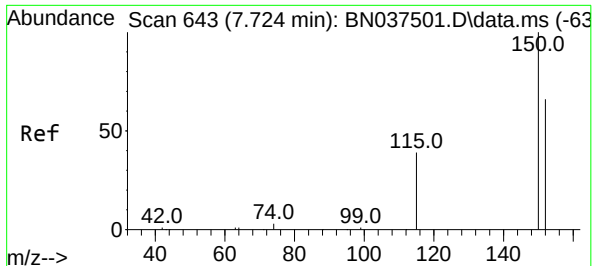
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037538.D
Acq On : 22 Jul 2025 14:28
Operator : RC/JU
Sample : Q2643-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

Quant Time: Jul 22 14:51:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

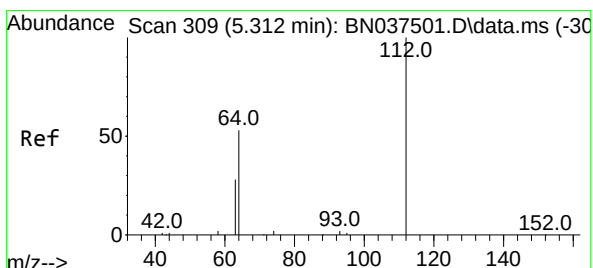
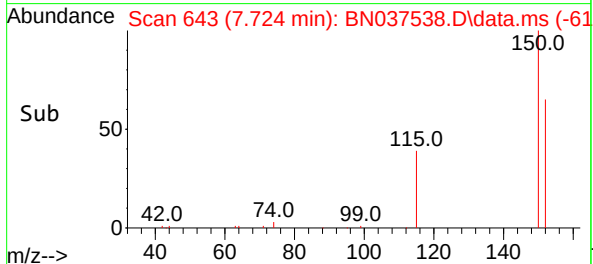
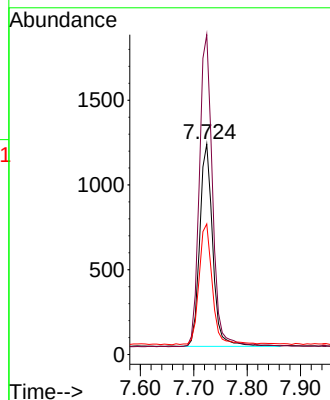
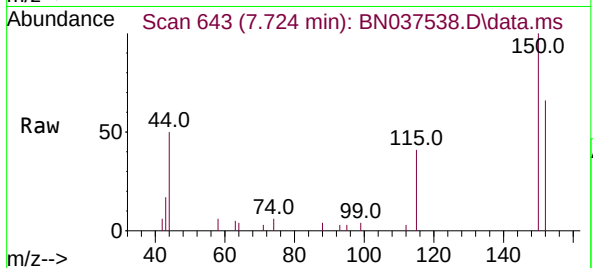




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

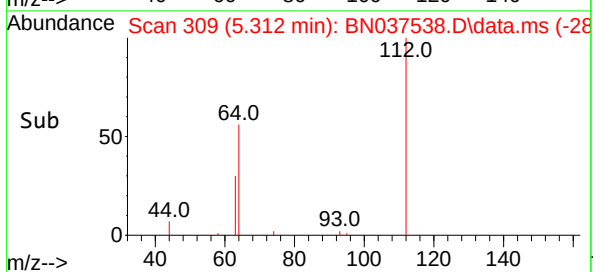
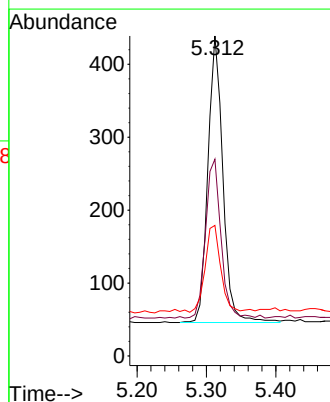
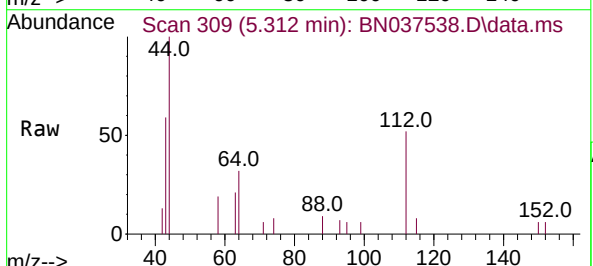
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

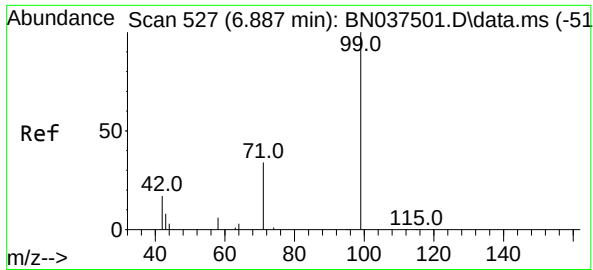
Tgt Ion:152 Resp: 2010
Ion Ratio Lower Upper
152 100
150 152.1 119.8 179.8
115 62.0 49.1 73.7



#4
2-Fluorophenol
Concen: 0.118 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

Tgt Ion:112 Resp: 589
Ion Ratio Lower Upper
112 100
64 57.4 45.1 67.7
63 31.6 23.8 35.8

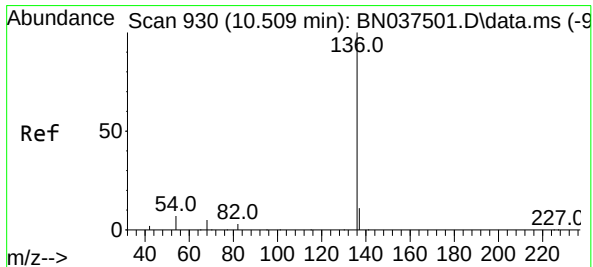
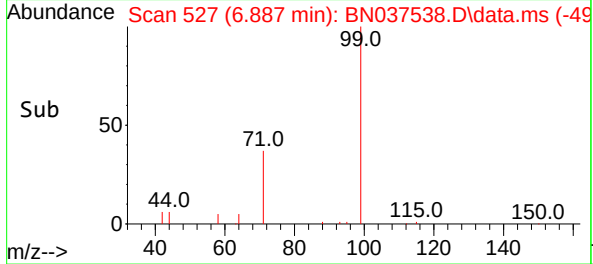
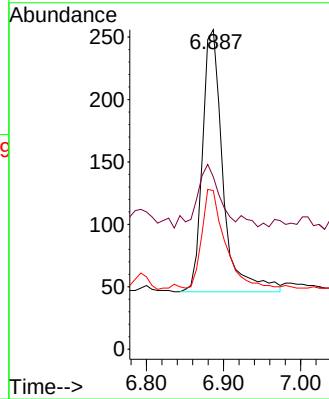
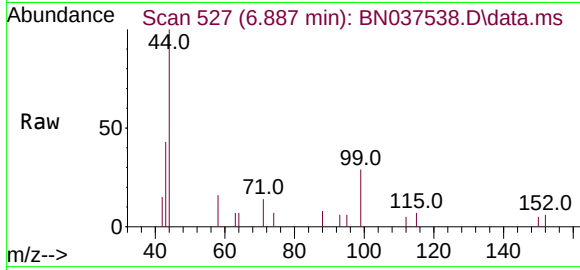




#5
Phenol-d6
Concen: 0.062 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

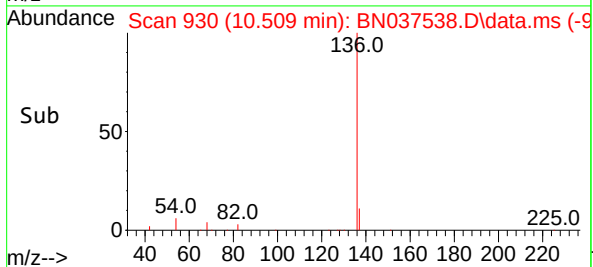
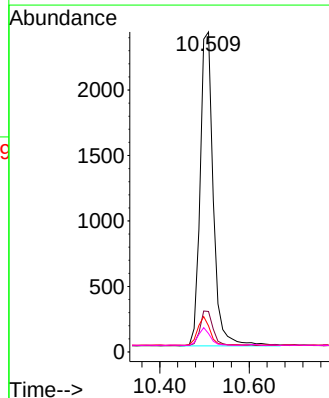
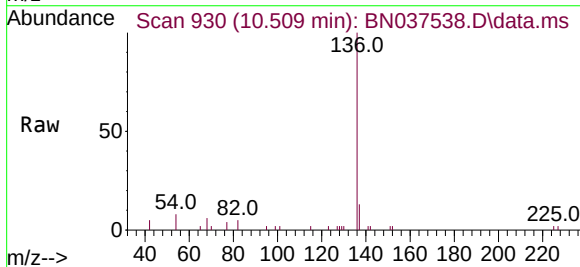
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

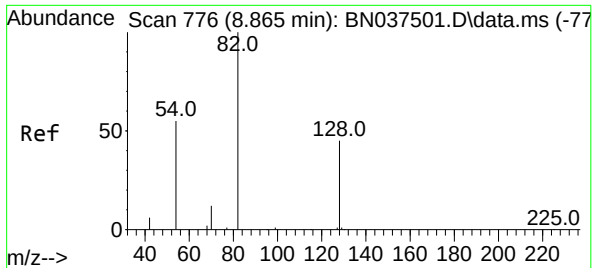
Tgt Ion:	99	Resp:	389
Ion	Ratio	Lower	Upper
99	100		
42	26.2	17.1	25.7#
71	42.2	27.8	41.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

Tgt Ion:	136	Resp:	4891
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.8	14.8
54	8.1	6.6	9.8
68	5.7	5.0	7.6

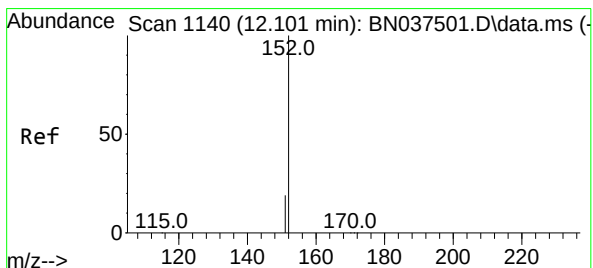
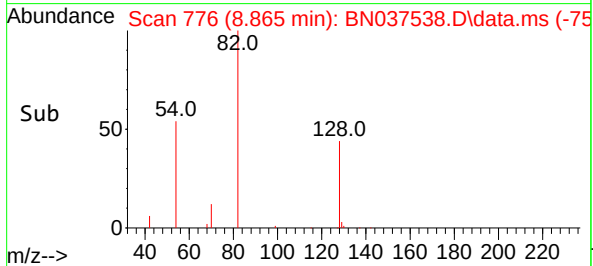
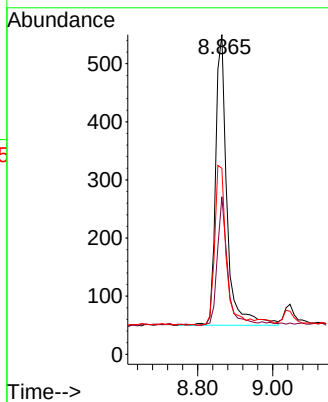
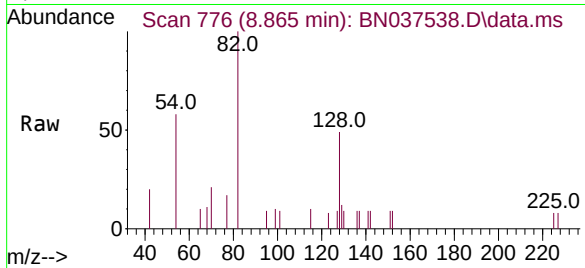




#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.865 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

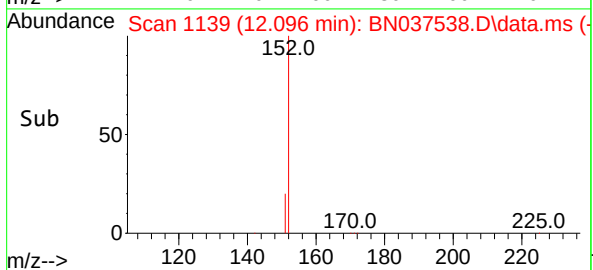
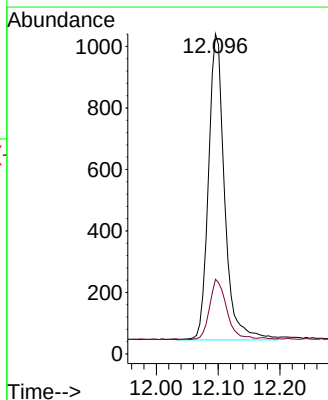
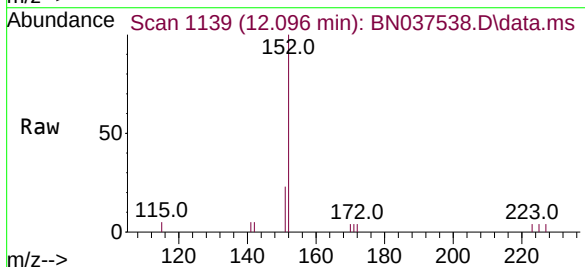
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

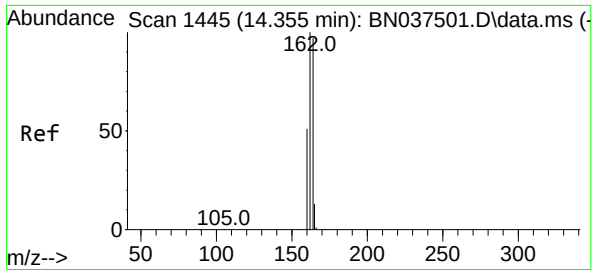
Tgt Ion:	82	Resp:	1046
Ion	Ratio	Lower	Upper
82	100		
128	49.3	37.5	56.3
54	58.2	45.3	67.9



#11
2-Methylnaphthalene-d10
Concen: 0.257 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

Tgt Ion:	152	Resp:	1804
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.8	25.2

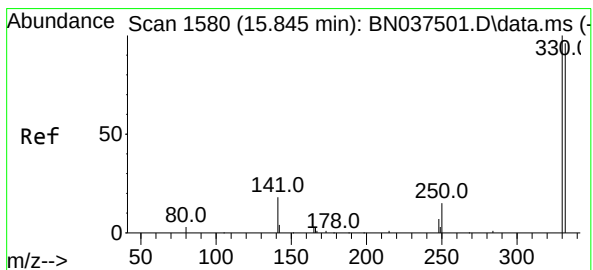
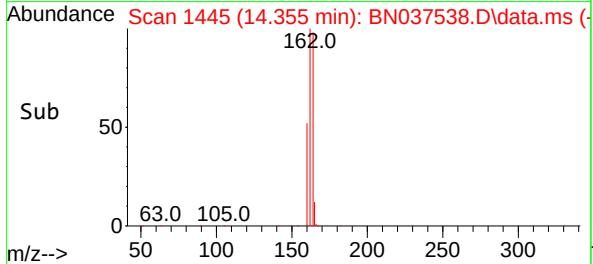
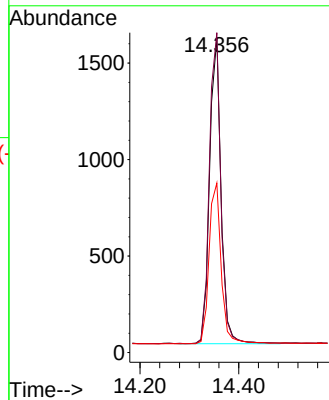
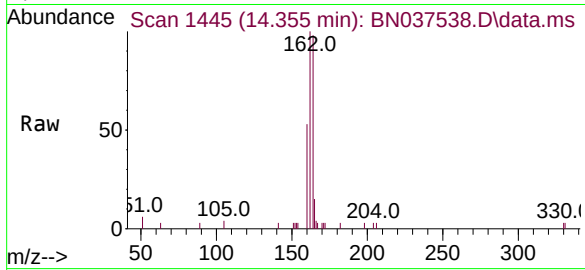




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

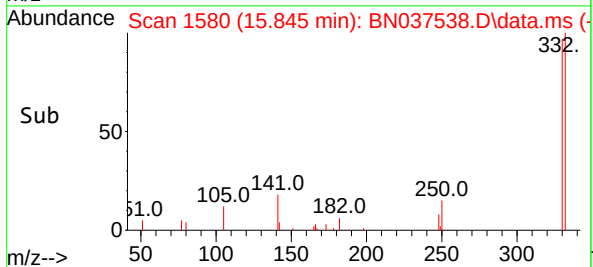
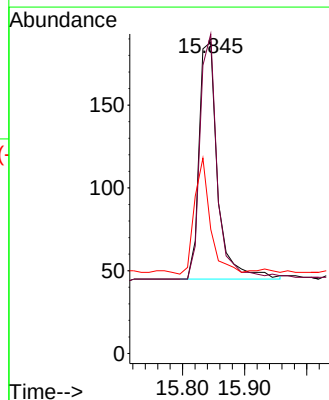
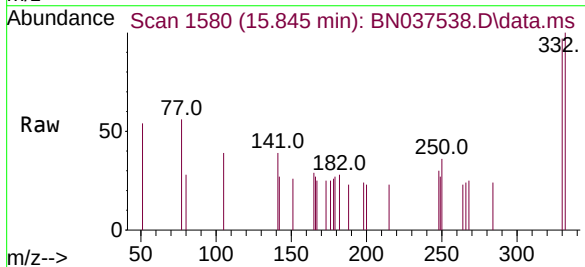
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

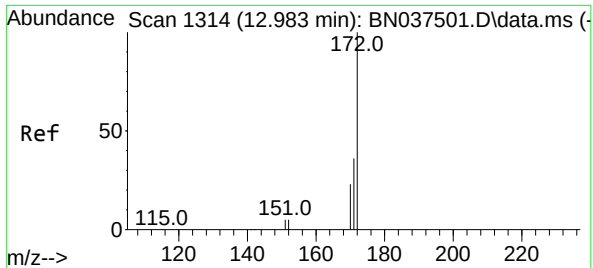
Tgt Ion:	164	Resp:	2544
Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.0	123.0
160	53.8	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.237 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

Tgt Ion:	330	Resp:	296
Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.1	114.1
141	42.6	33.4	50.0

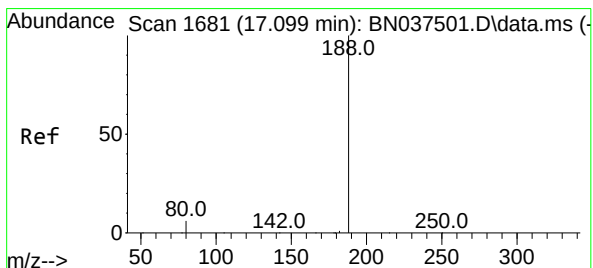
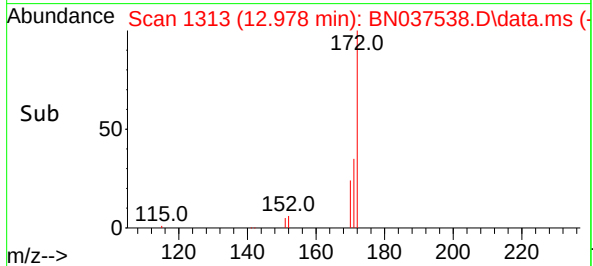
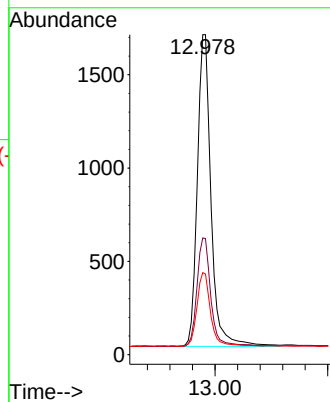
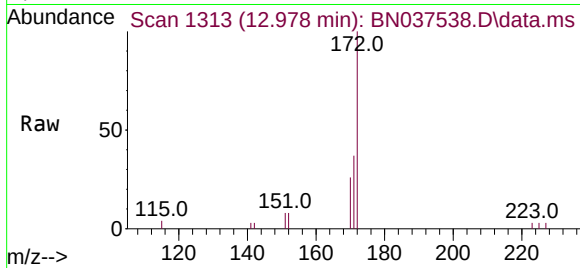




#15
2-Fluorobiphenyl
Concen: 0.301 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.005 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

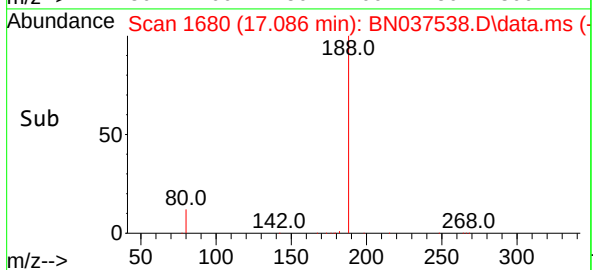
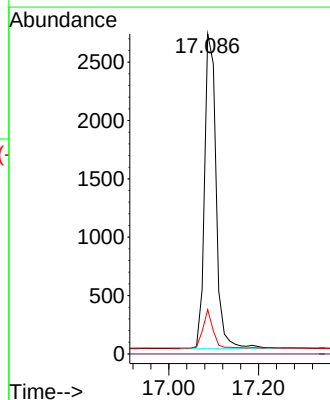
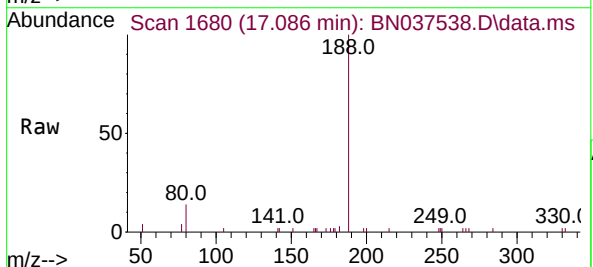
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

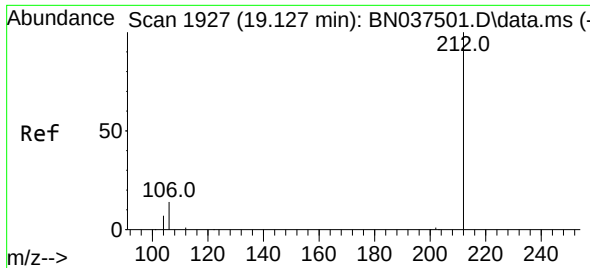
Tgt Ion:	172	Resp:	3984
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.4	44.2
170	25.7	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

Tgt Ion:	188	Resp:	4844
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.8	6.0	9.0#

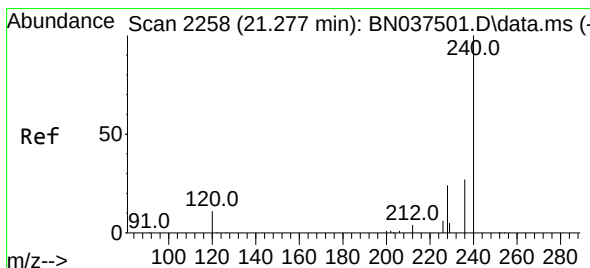
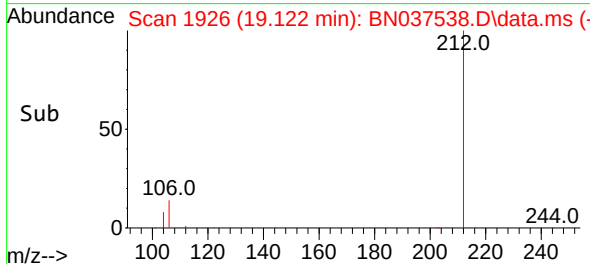
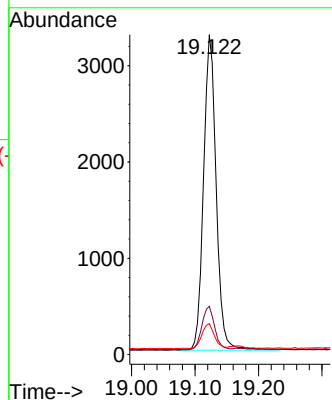
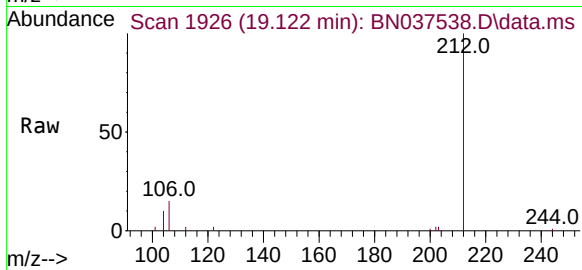




#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.122 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

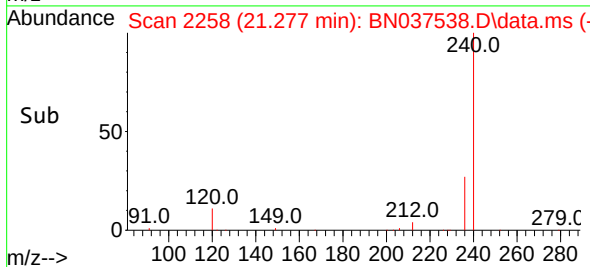
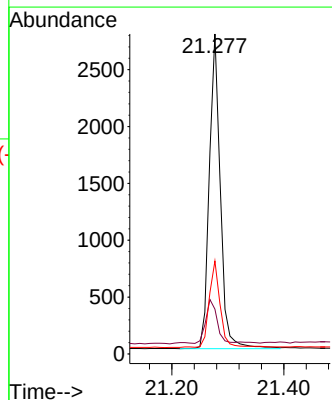
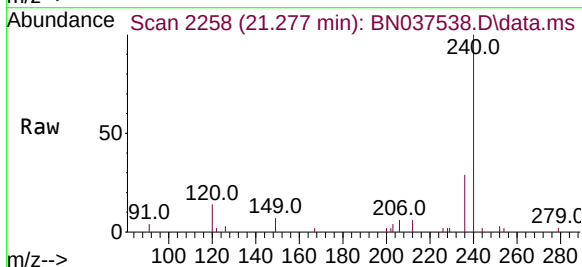
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

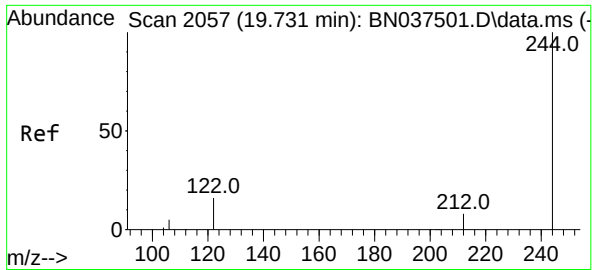
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.7	12.2	18.4
104	7.8	6.7	10.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.0	10.7	16.1
236	29.0	22.6	33.8

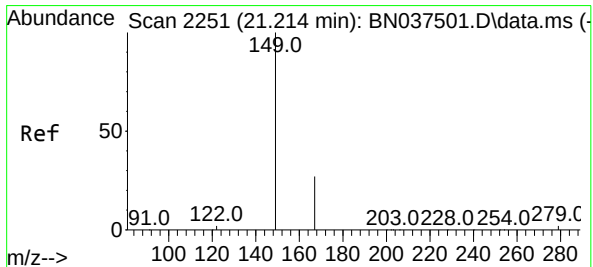
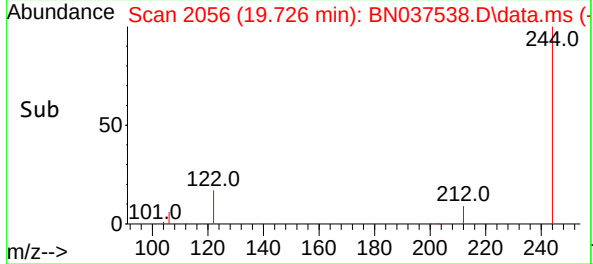
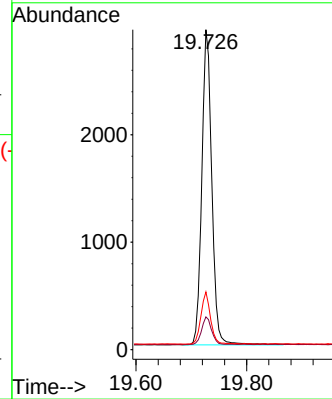
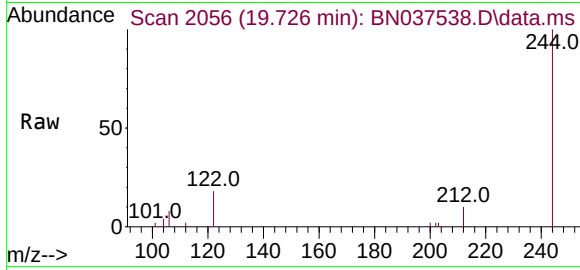




#31
Terphenyl-d14
Concen: 0.449 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

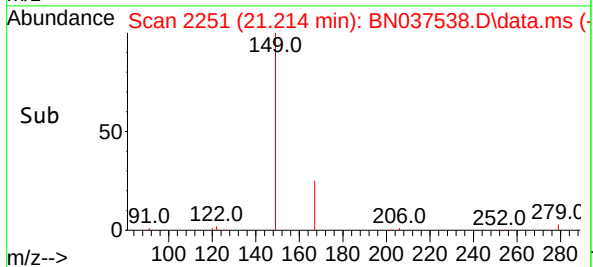
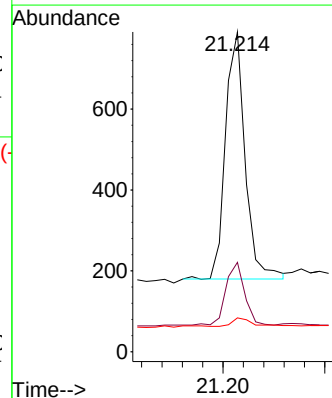
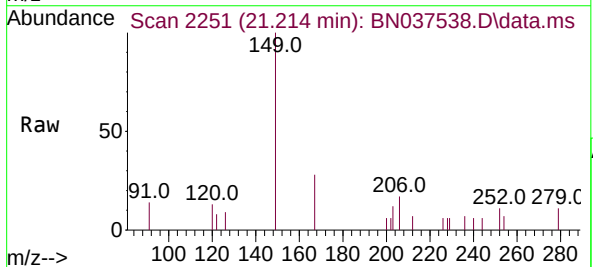
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250717

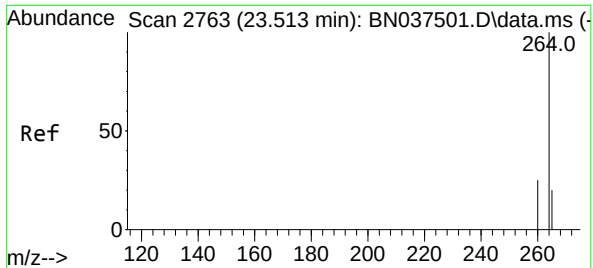
Tgt Ion:	244	Resp:	3662
Ion Ratio	Lower	Upper	
244	100		
212	10.2	7.4	11.2
122	18.1	13.6	20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.138 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN037538.D
Acq: 22 Jul 2025 14:28

Tgt Ion:	149	Resp:	825
Ion Ratio	Lower	Upper	
149	100		
167	23.9	21.8	32.8
279	3.6	3.0	4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.511 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037538.D

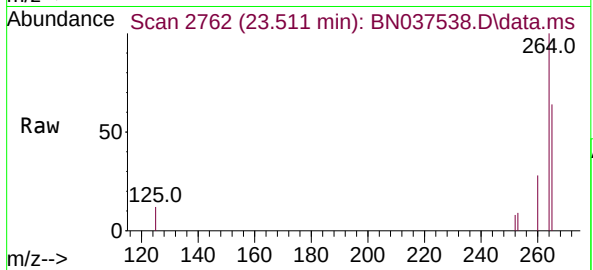
Acq: 22 Jul 2025 14:28

Instrument :

BNA_N

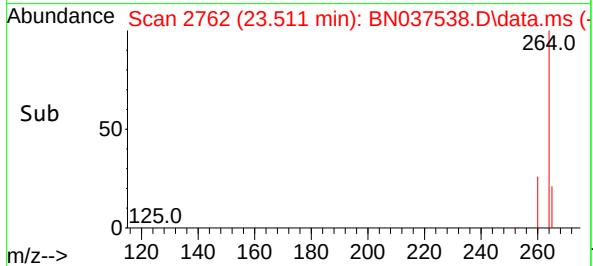
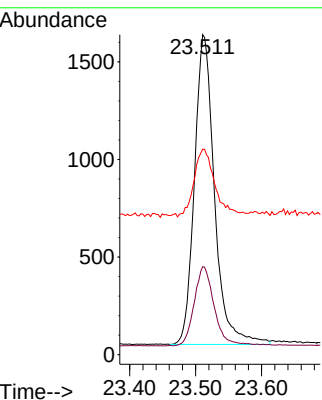
ClientSampleId :

RW7-SP201-20250717



Tgt Ion:264 Resp: 3347

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.2	31.8
265	64.2	40.4	60.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/18/25
Client Sample ID:	RW7-SP302-20250717	SDG No.:	Q2643
Lab Sample ID:	Q2643-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037539.D	1	07/21/25 09:10	07/22/25 15:04	PB168952

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	0.25		30 - 150		63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2000	7.724				
1146-65-2	Naphthalene-d8	5000	10.509				
15067-26-2	Acenaphthene-d10	2550	14.355				
1517-22-2	Phenanthrene-d10	4930	17.086				
1719-03-5	Chrysene-d12	3890	21.277				
1520-96-3	Perylene-d12	3370	23.51				

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\BN072225\
Data File : BN037539.D
Acq On : 22 Jul 2025 15:04
Operator : RC/JU
Sample : Q2643-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

Quant Time: Jul 22 15:41:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

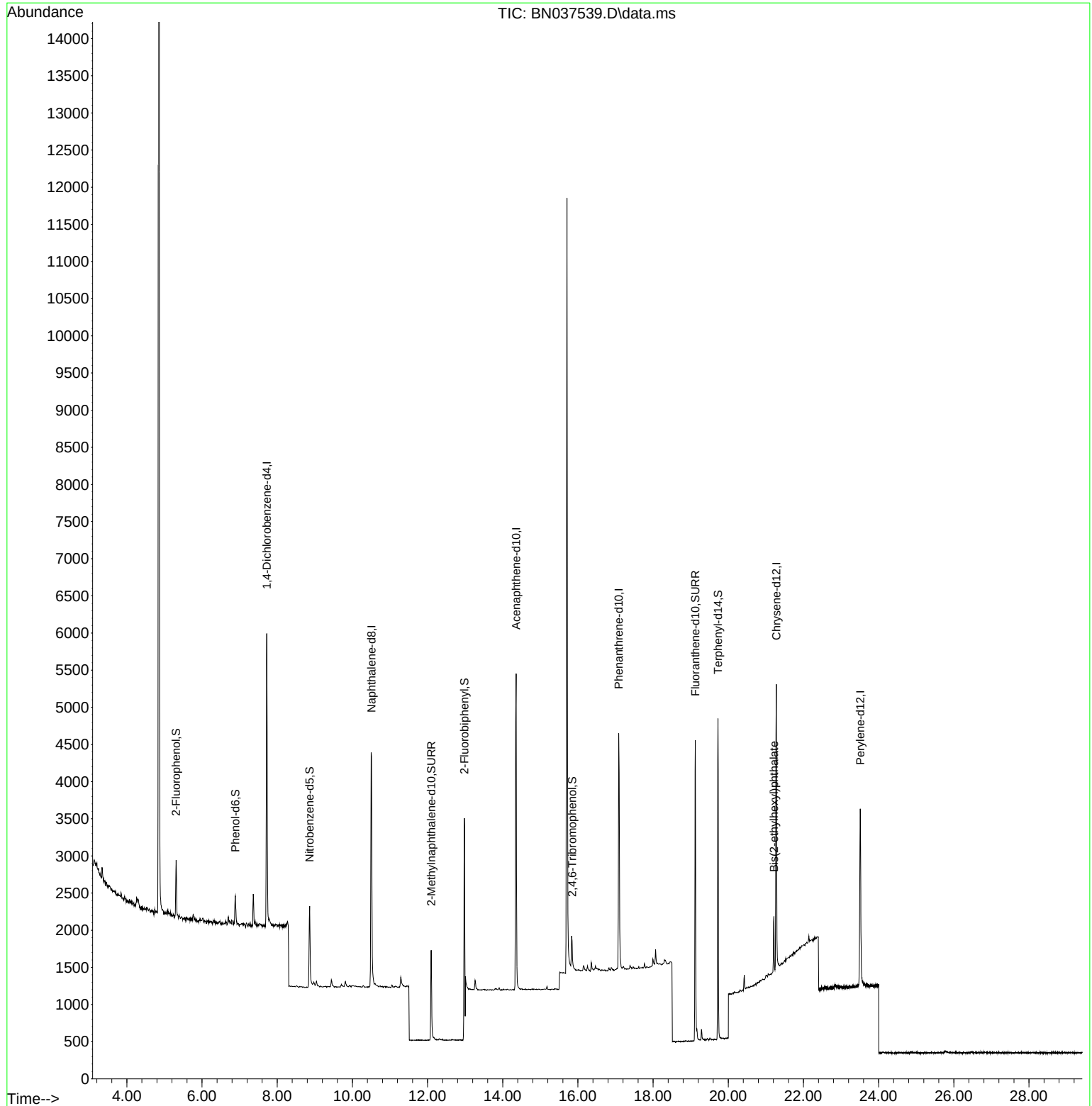
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1999	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5002	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2550	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4929	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3886	0.400	ng	0.00
35) Perylene-d12	23.510	264	3365	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	571	0.116	ng	0.00
5) Phenol-d6	6.886	99	369	0.060	ng	0.00
8) Nitrobenzene-d5	8.864	82	1040	0.278	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1822	0.254	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	291	0.232	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4004	0.302	ng	0.00
27) Fluoranthene-d10	19.122	212	4564	0.350	ng	0.00
31) Terphenyl-d14	19.726	244	4093	0.490	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	820	0.134	ng	Qvalue 96

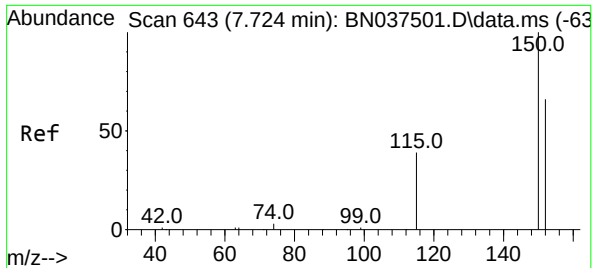
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037539.D
Acq On : 22 Jul 2025 15:04
Operator : RC/JU
Sample : Q2643-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

Quant Time: Jul 22 15:41:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

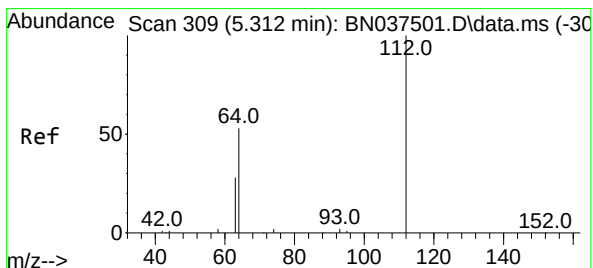
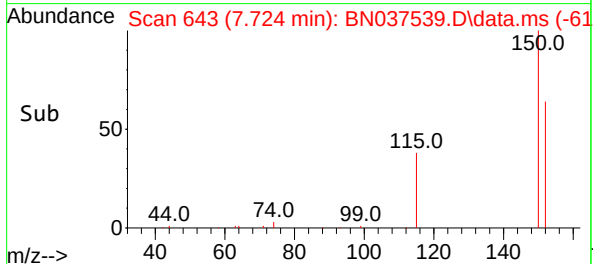
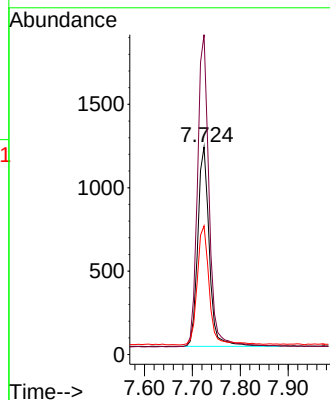
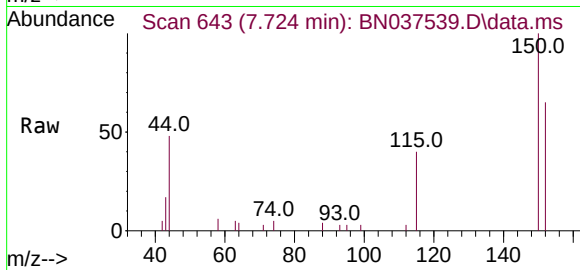




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

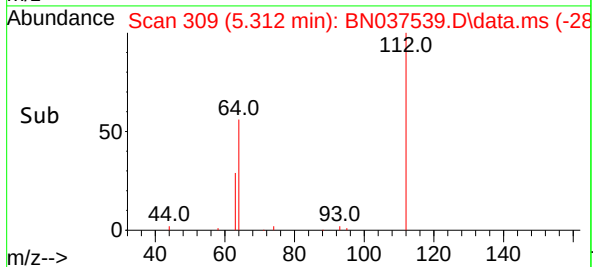
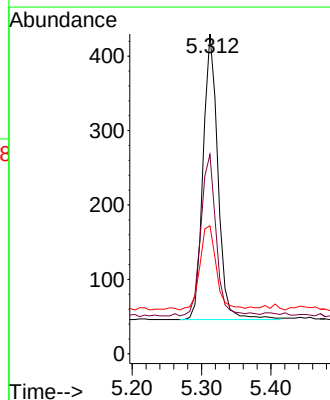
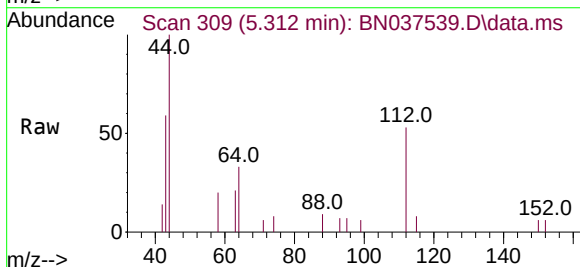
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

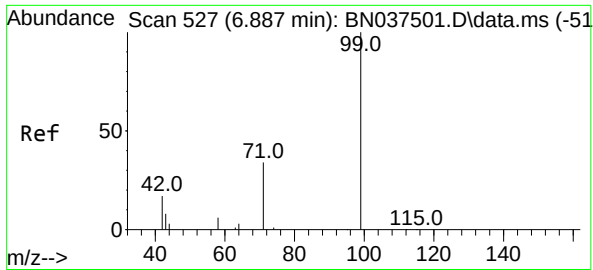
Tgt Ion:	152	Resp:	1999
Ion	Ratio	Lower	Upper
152	100		
150	154.2	119.8	179.8
115	62.0	49.1	73.7



#4
2-Fluorophenol
Concen: 0.116 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

Tgt Ion:	112	Resp:	571
Ion	Ratio	Lower	Upper
112	100		
64	58.5	45.1	67.7
63	32.4	23.8	35.8

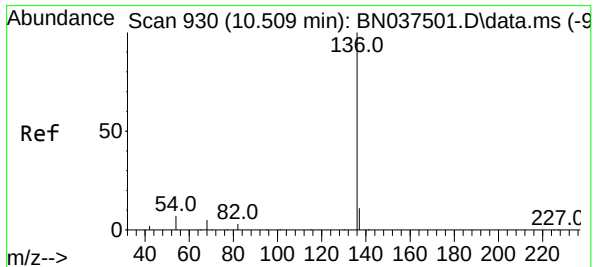
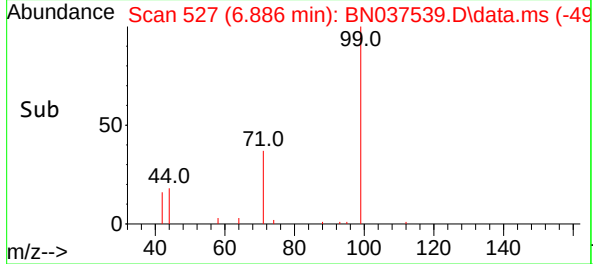
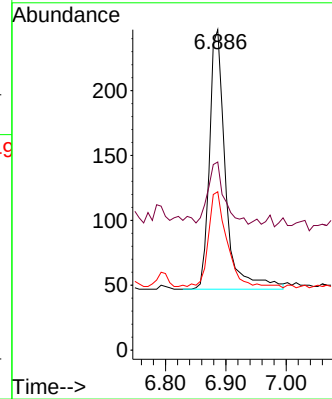
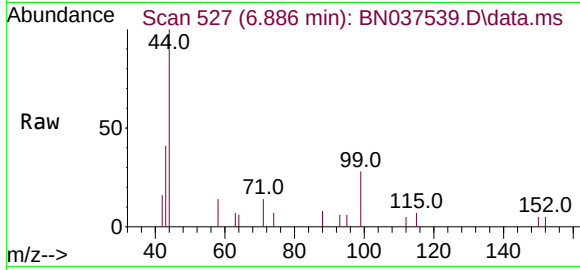




#5
Phenol-d6
Concen: 0.060 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

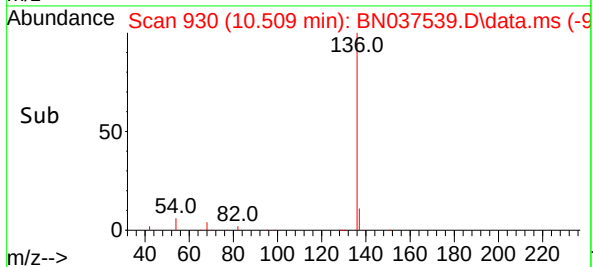
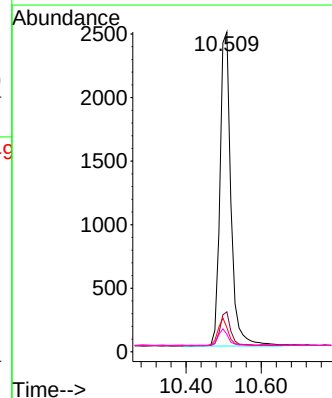
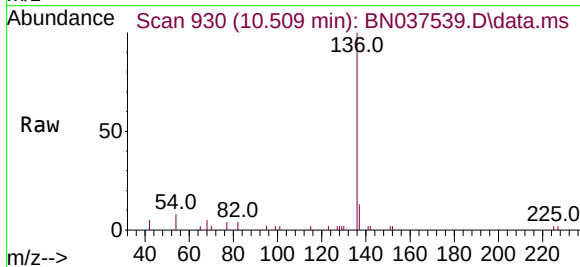
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

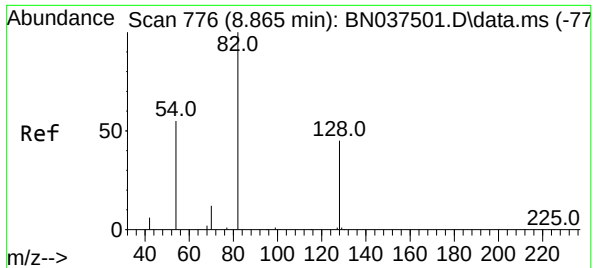
Tgt Ion:	99	Resp:	369
Ion	Ratio	Lower	Upper
99	100		
42	25.5	17.1	25.7
71	44.4	27.8	41.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. -0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

Tgt Ion:	136	Resp:	5002
Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.8	14.8
54	7.5	6.6	9.8
68	5.5	5.0	7.6

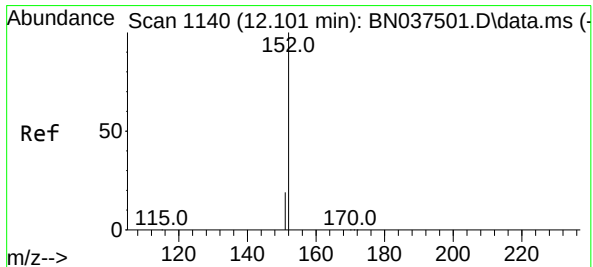
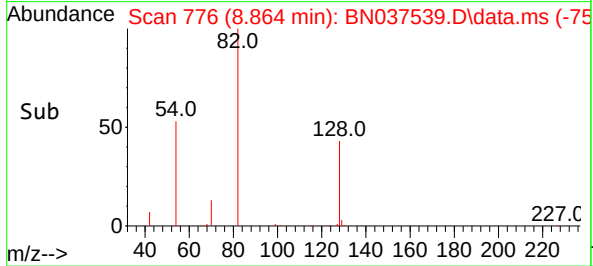
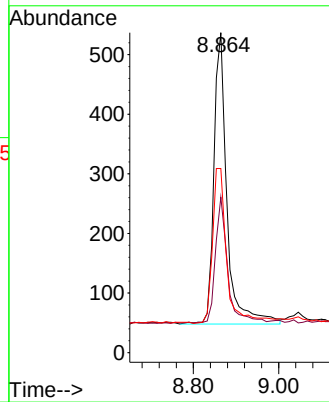
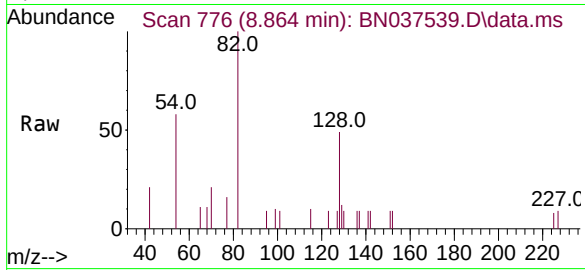




#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.864 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

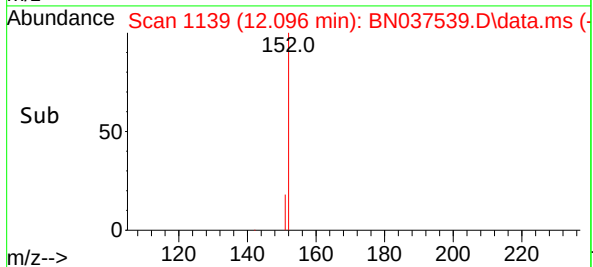
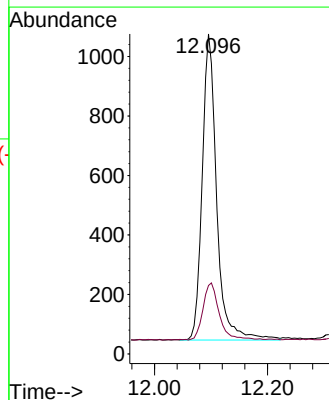
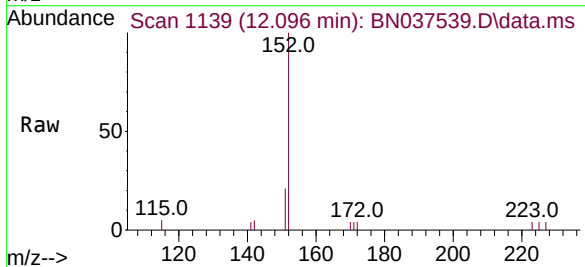
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

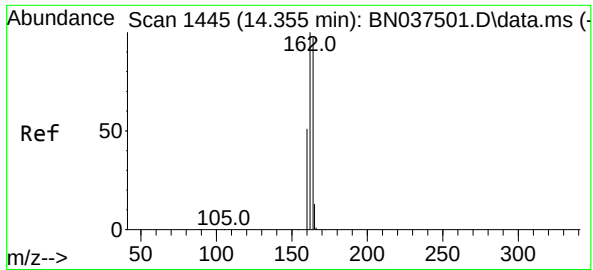
Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.6	37.5	56.3
54	57.5	45.3	67.9



#11
2-Methylnaphthalene-d10
Concen: 0.254 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.8	25.2

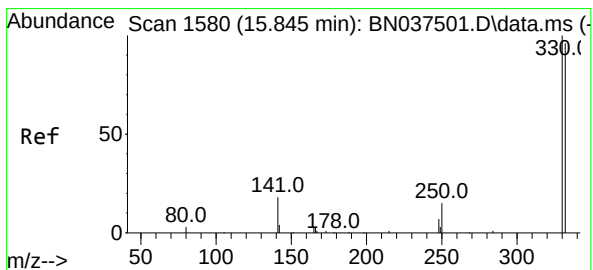
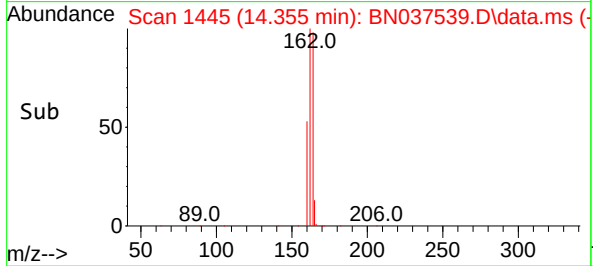
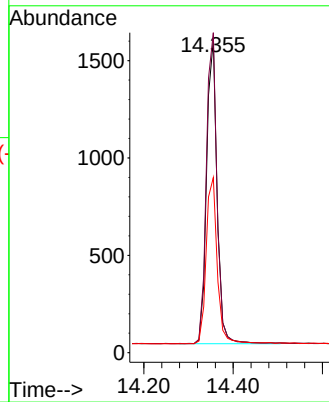
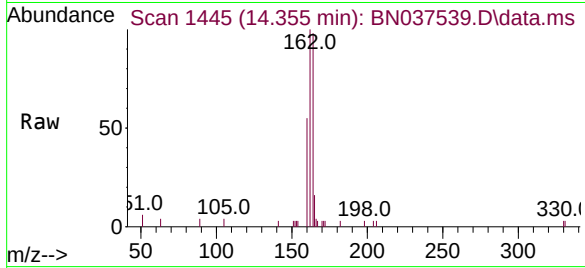




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

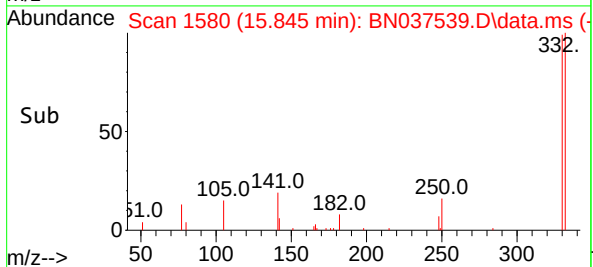
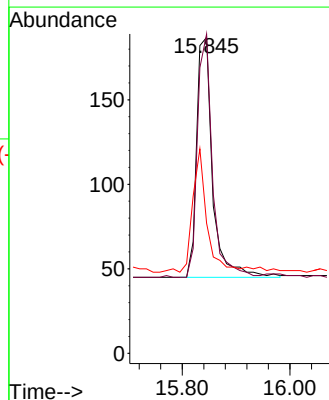
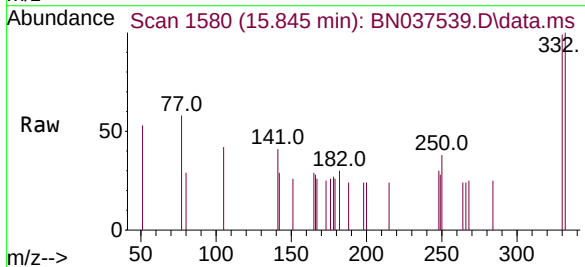
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

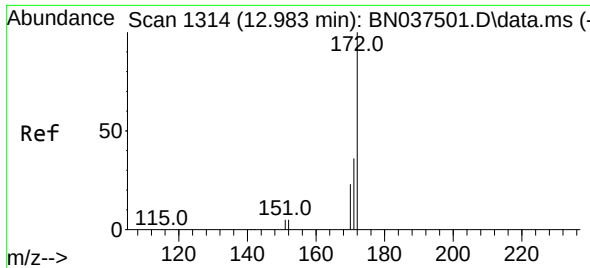
Tgt Ion:	164	Resp:	2550
Ion Ratio	Lower	Upper	
164	100		
162	102.4	82.0	123.0
160	56.0	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.232 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

Tgt Ion:	330	Resp:	291
Ion Ratio	Lower	Upper	
330	100		
332	95.2	76.1	114.1
141	45.7	33.4	50.0

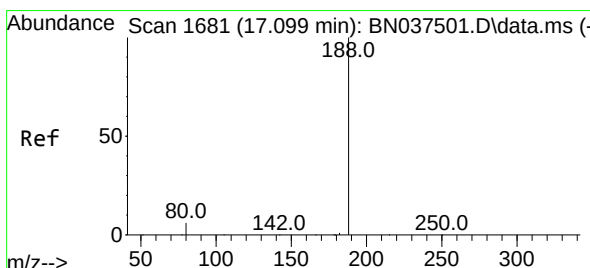
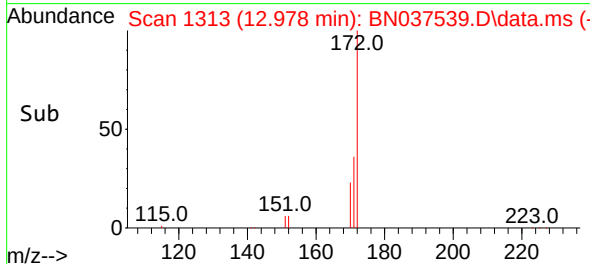
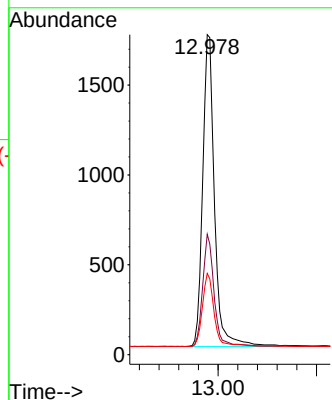
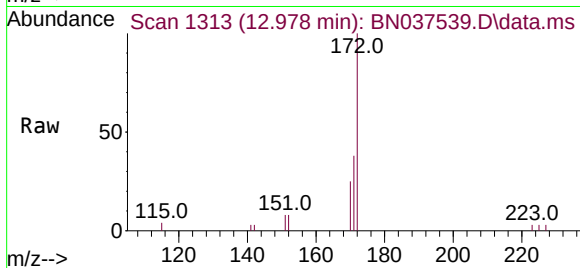




#15
2-Fluorobiphenyl
Concen: 0.302 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

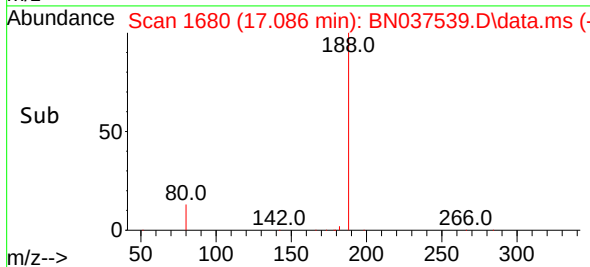
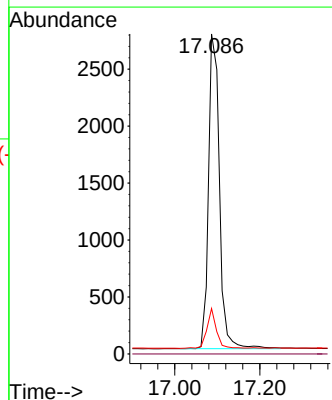
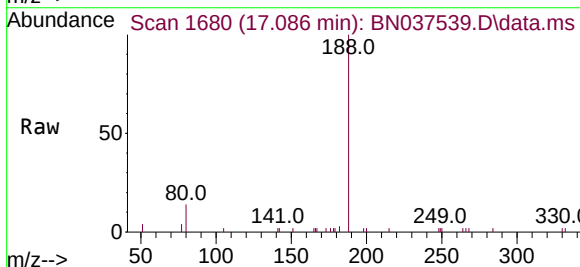
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

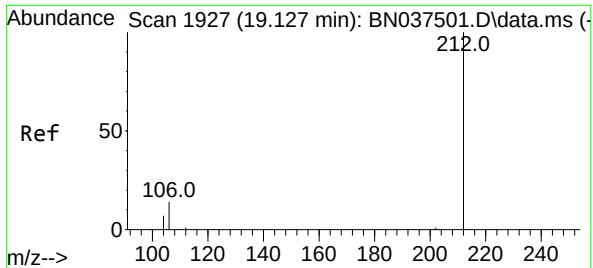
Tgt Ion:	172	Resp:	4004
Ion Ratio	Lower	Upper	
172	100		
171	37.6	29.4	44.2
170	25.4	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

Tgt Ion:	188	Resp:	4929
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.2	6.0	9.0#

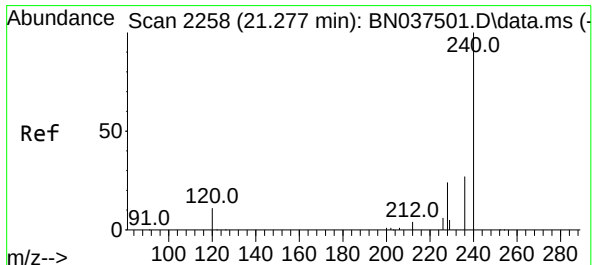
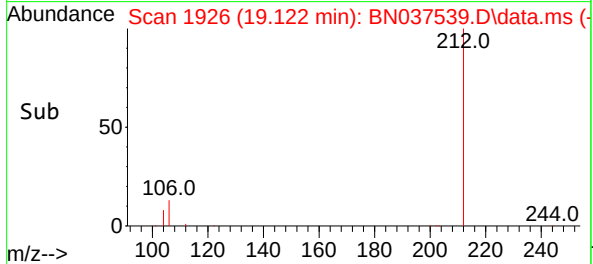
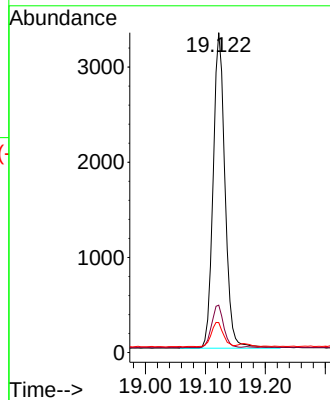
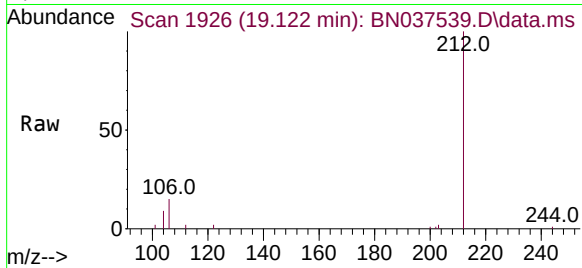




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

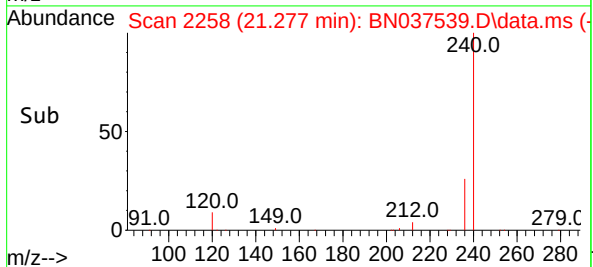
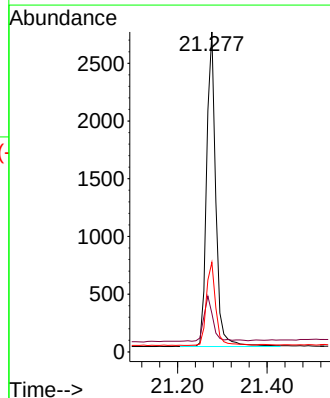
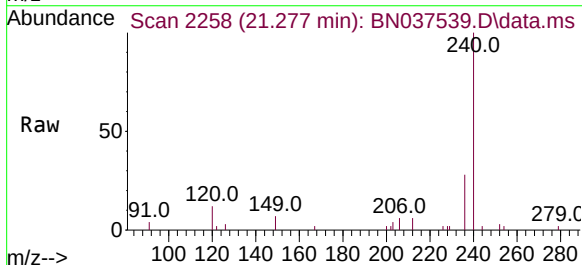
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

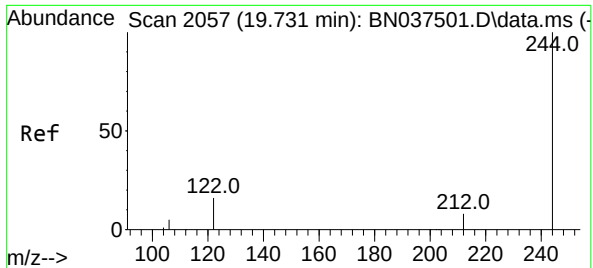
Tgt Ion:	212	Resp:	4564
Ion Ratio	Lower	Upper	
212	100		
106	13.5	12.2	18.4
104	7.7	6.7	10.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

Tgt Ion:	240	Resp:	3886
Ion Ratio	Lower	Upper	
240	100		
120	12.0	10.7	16.1
236	28.0	22.6	33.8

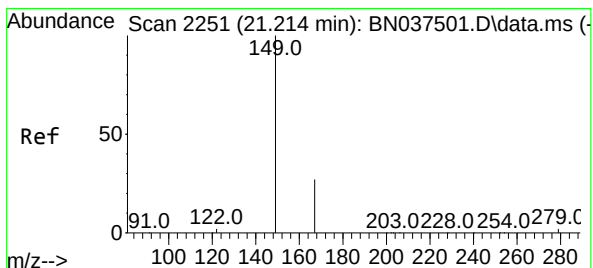
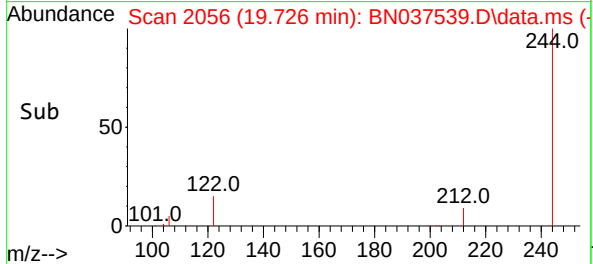
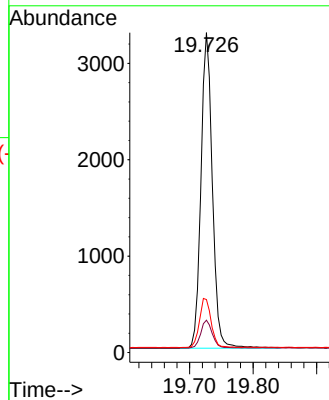
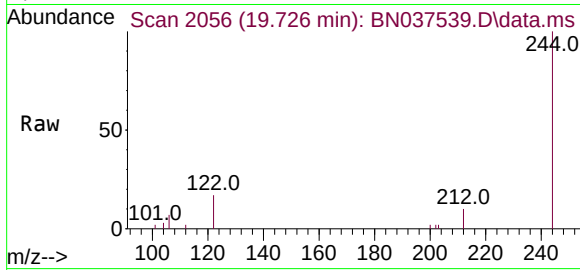




#31
Terphenyl-d14
Concen: 0.490 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

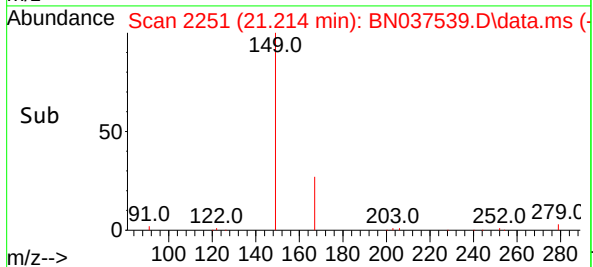
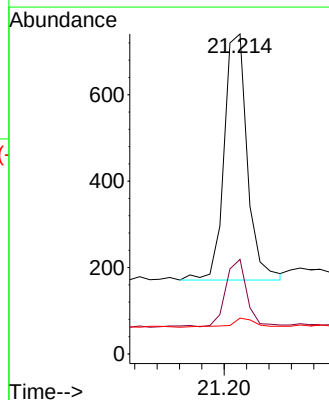
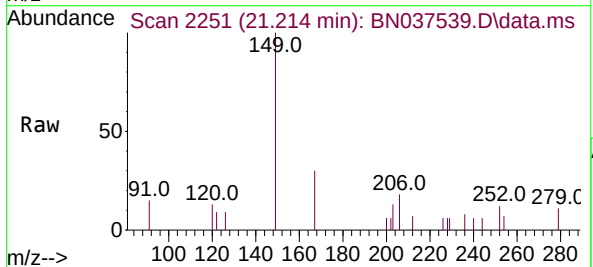
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717

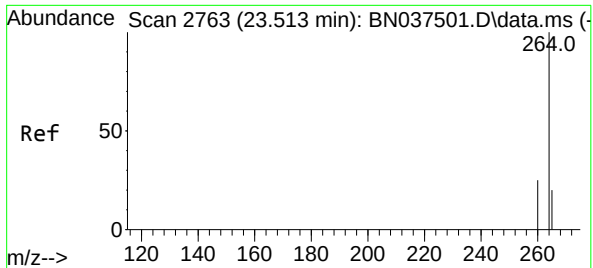
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.4	11.2
122	16.6	13.6	20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.134 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

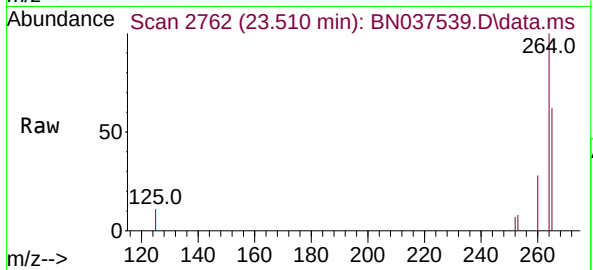
Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.0	21.8	32.8
279	3.9	3.0	4.4



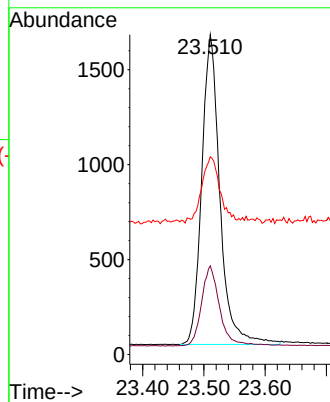
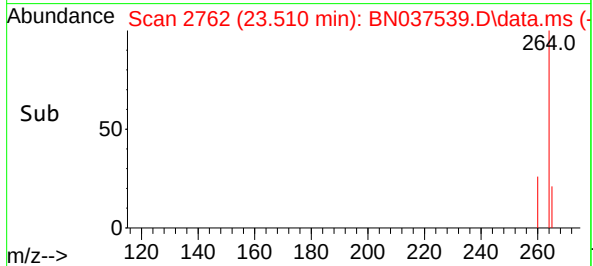


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.510 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037539.D
Acq: 22 Jul 2025 15:04

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250717



Tgt Ion:264 Resp: 3365
Ion Ratio Lower Upper
264 100
260 27.7 21.2 31.8
265 61.8 40.4 60.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/18/25
Client Sample ID:	RW7-SP303-20250717	SDG No.:	Q2643
Lab Sample ID:	Q2643-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037540.D	1	07/21/25 09:10	07/22/25 15:40	PB168952

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	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		106%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1800	7.724				
1146-65-2	Naphthalene-d8	4420	10.509				
15067-26-2	Acenaphthene-d10	2300	14.356				
1517-22-2	Phenanthrene-d10	4430	17.087				
1719-03-5	Chrysene-d12	3610	21.277				
1520-96-3	Perylene-d12	3020	23.511				

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\BN072225\
Data File : BN037540.D
Acq On : 22 Jul 2025 15:40
Operator : RC/JU
Sample : Q2643-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

Quant Time: Jul 22 16:10:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

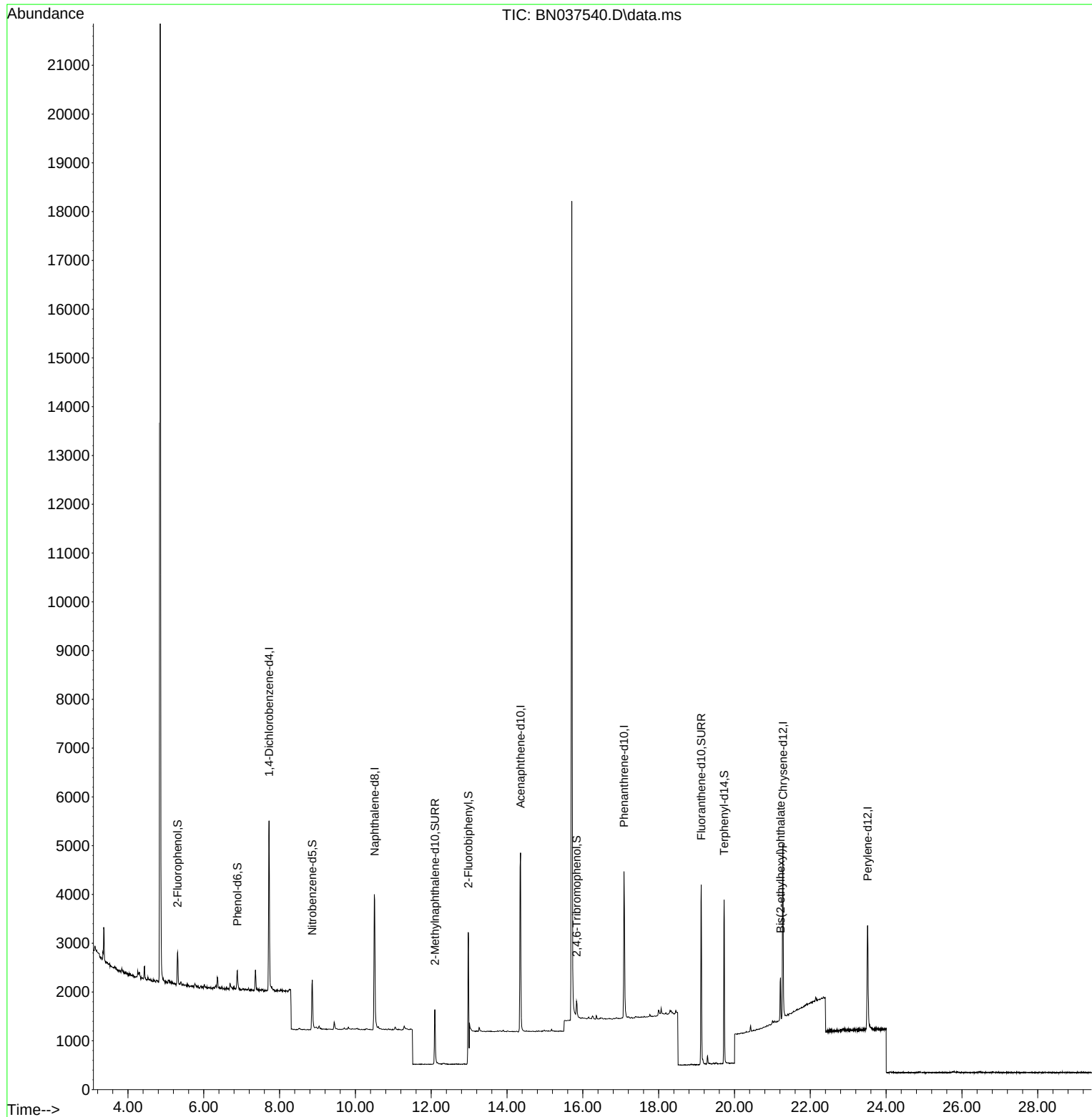
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1802	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4415	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2297	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4425	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3605	0.400	ng	0.00
35) Perylene-d12	23.511	264	3019	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	552	0.124	ng	0.00
5) Phenol-d6	6.887	99	374	0.067	ng	0.00
8) Nitrobenzene-d5	8.865	82	988	0.299	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1712	0.270	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	214	0.190	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3547	0.297	ng	0.00
27) Fluoranthene-d10	19.122	212	4242	0.362	ng	0.00
31) Terphenyl-d14	19.726	244	3278	0.423	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	909	0.160	ng	Qvalue 98

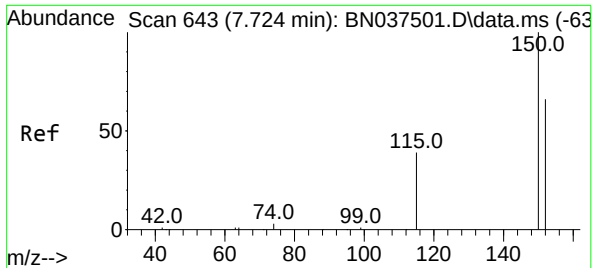
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037540.D
Acq On : 22 Jul 2025 15:40
Operator : RC/JU
Sample : Q2643-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

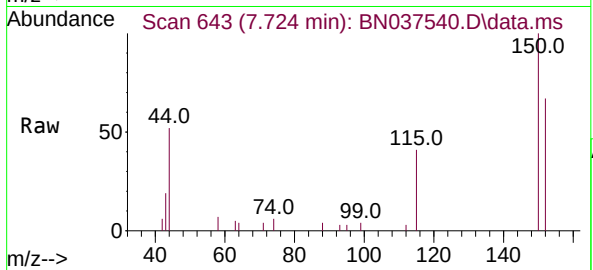
Quant Time: Jul 22 16:10:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration



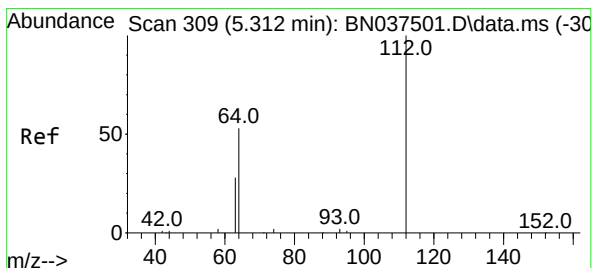
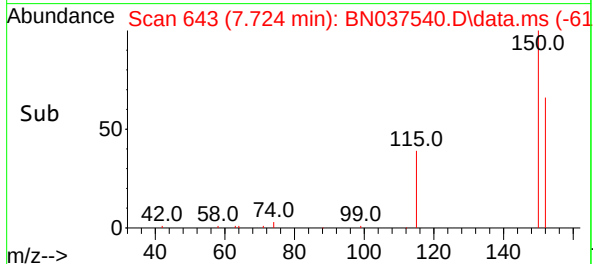
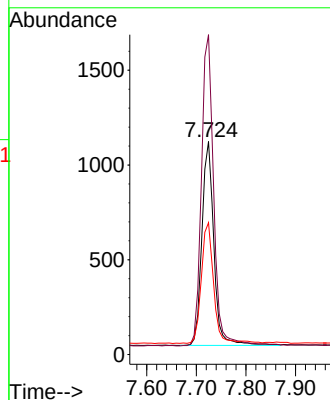


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

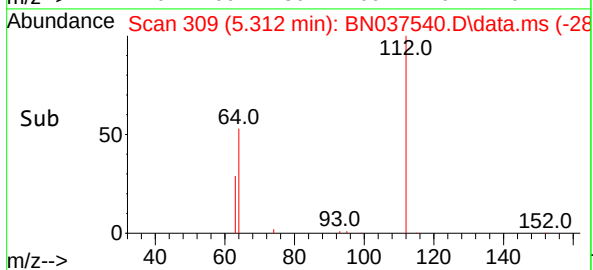
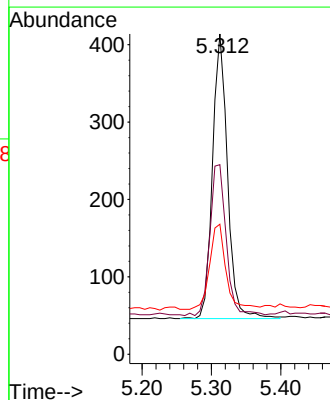
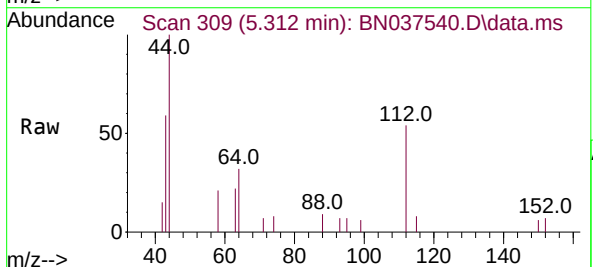


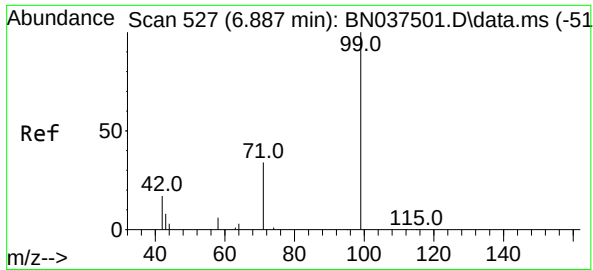
Tgt Ion:152 Resp: 1802
Ion Ratio Lower Upper
152 100
150 150.2 119.8 179.8
115 61.9 49.1 73.7



#4
2-Fluorophenol
Concen: 0.124 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

Tgt Ion:112 Resp: 552
Ion Ratio Lower Upper
112 100
64 57.8 45.1 67.7
63 32.4 23.8 35.8

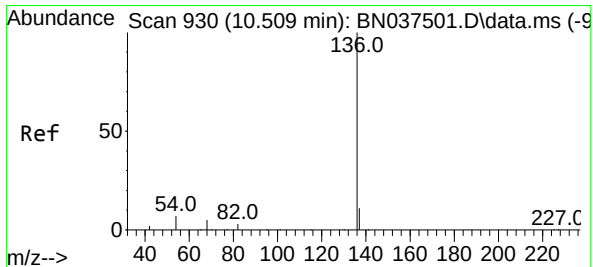
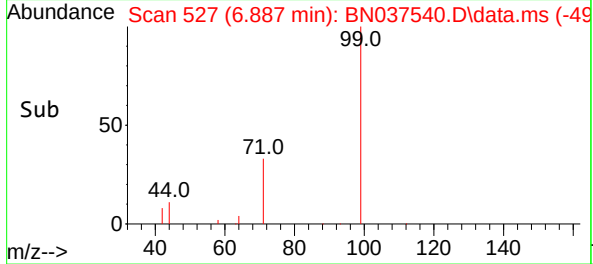
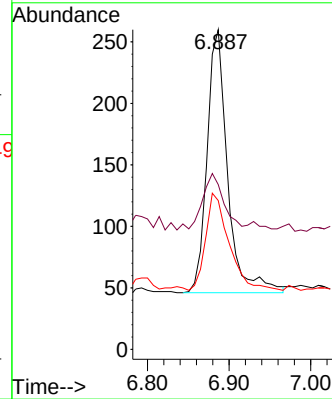
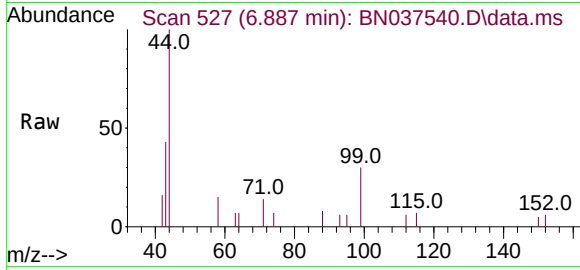




#5
Phenol-d6
Concen: 0.067 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

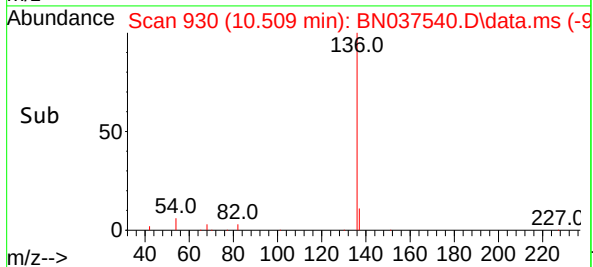
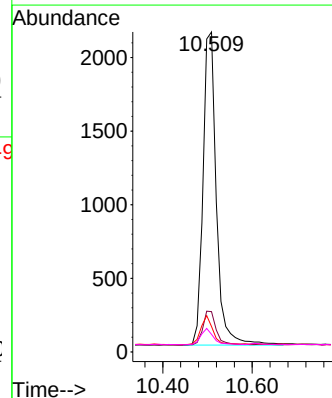
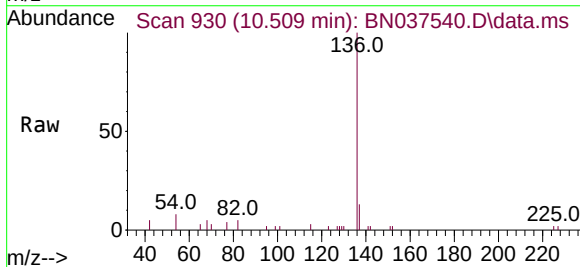
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

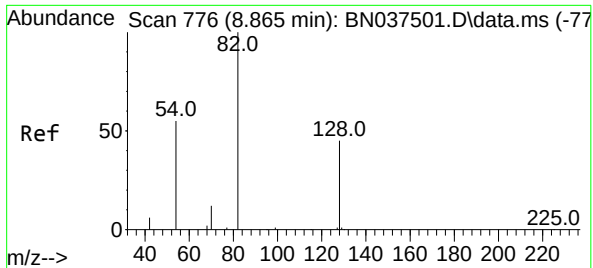
Tgt Ion:	99	Resp:	374
Ion	Ratio	Lower	Upper
99	100		
42	22.7	17.1	25.7
71	42.0	27.8	41.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

Tgt Ion:	136	Resp:	4415
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.8	14.8
54	7.9	6.6	9.8
68	5.5	5.0	7.6

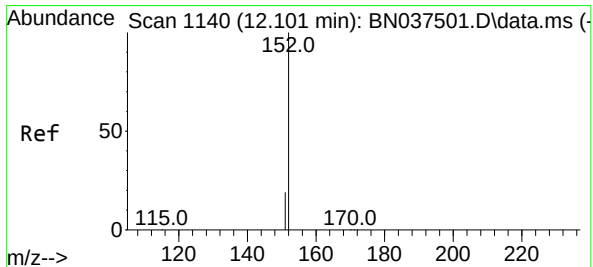
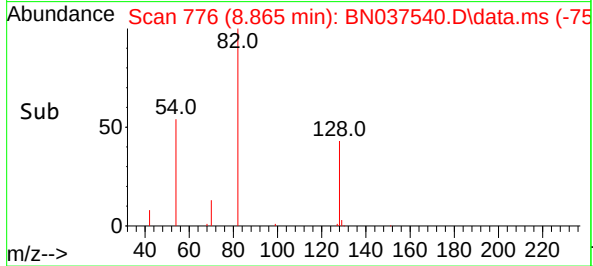
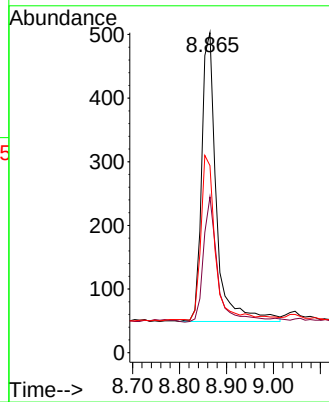
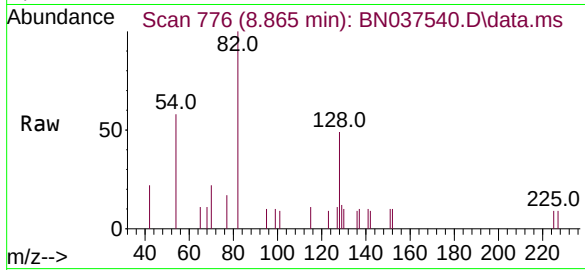




#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.865 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

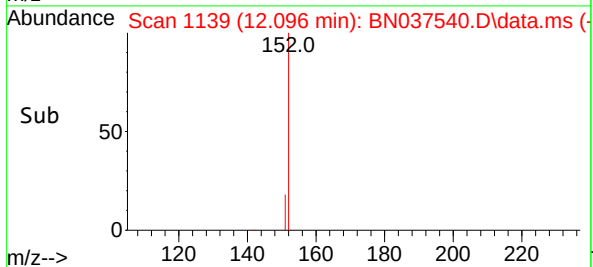
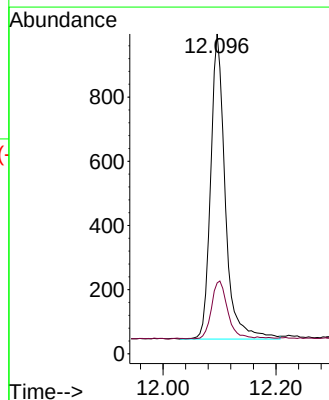
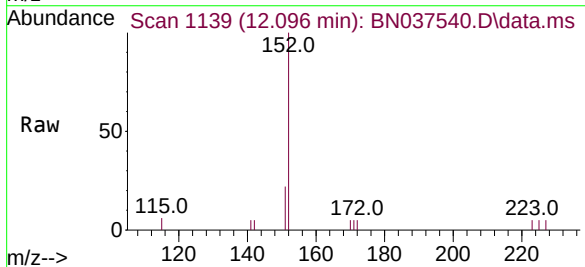
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

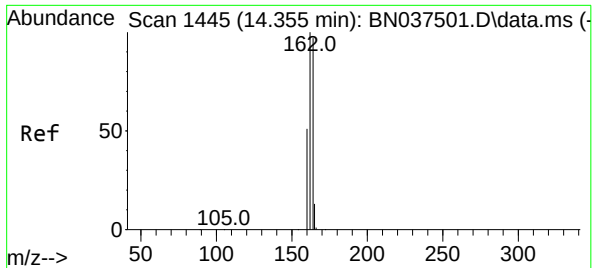
Tgt Ion:	82	Resp:	988
Ion Ratio	Lower	Upper	
82	100		
128	48.7	37.5	56.3
54	58.4	45.3	67.9



#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

Tgt Ion:	152	Resp:	1712
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.8	25.2

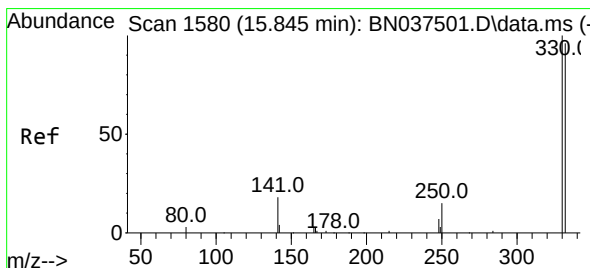
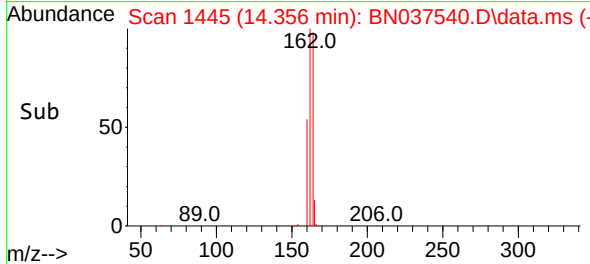
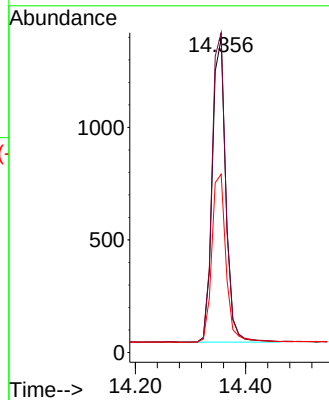
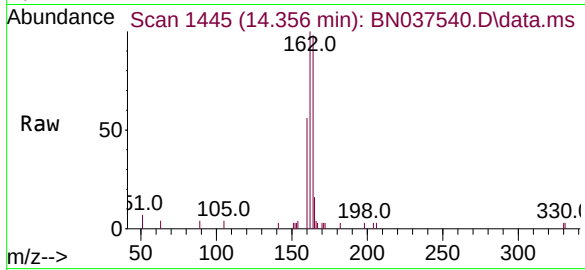




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

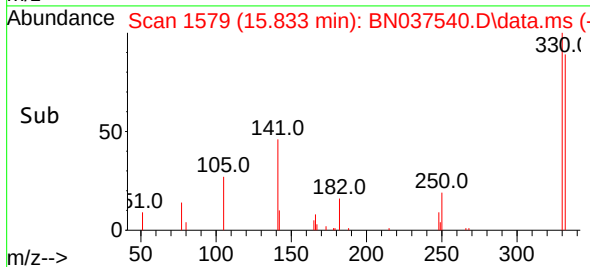
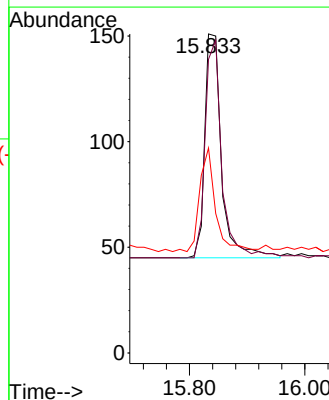
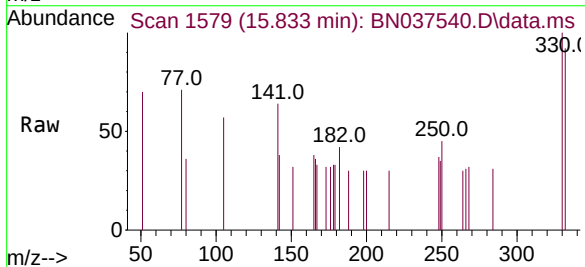
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

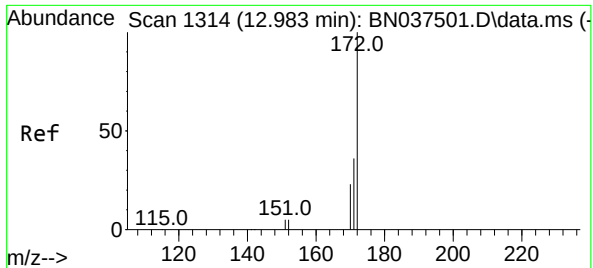
Tgt Ion:	164	Resp:	2297
Ion Ratio	Lower	Upper	
164	100		
162	101.9	82.0	123.0
160	56.8	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.190 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

Tgt Ion:	330	Resp:	214
Ion Ratio	Lower	Upper	
330	100		
332	97.7	76.1	114.1
141	43.0	33.4	50.0

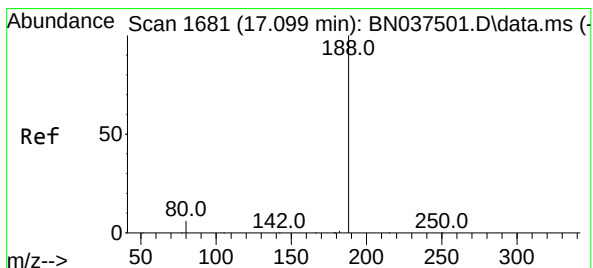
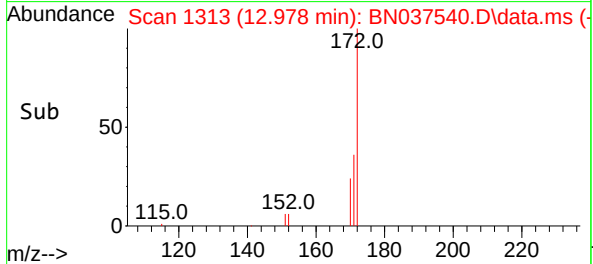
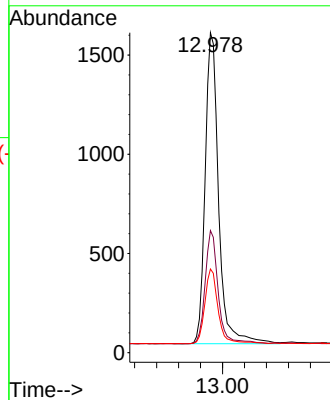
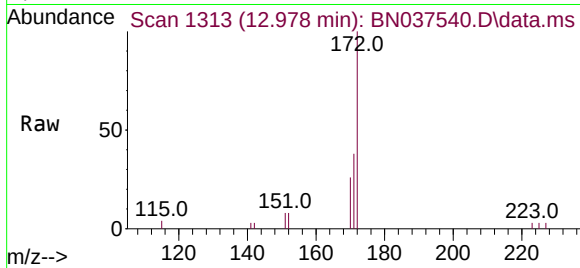




#15
2-Fluorobiphenyl
Concen: 0.297 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

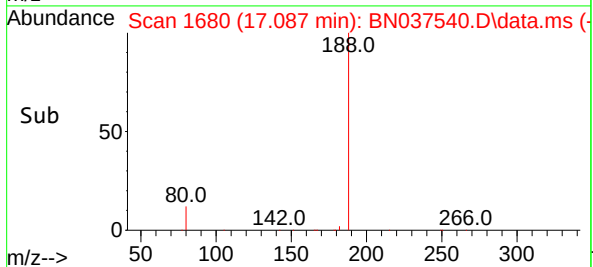
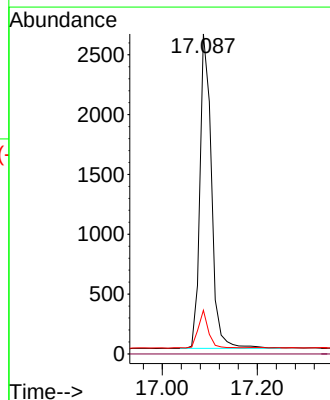
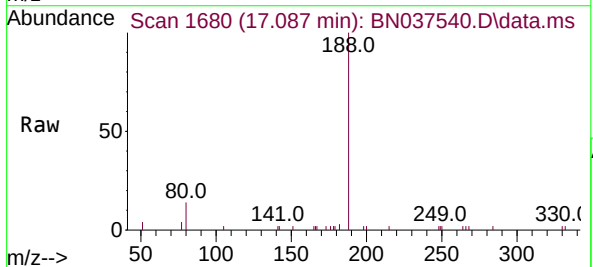
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

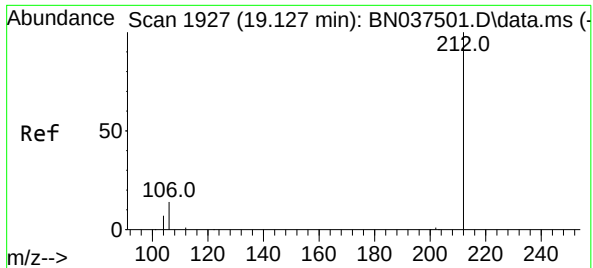
Tgt Ion:	172	Resp:	3547
Ion Ratio	Lower	Upper	
172	100		
171	38.1	29.4	44.2
170	26.2	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

Tgt Ion:	188	Resp:	4425
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.6	6.0	9.0#

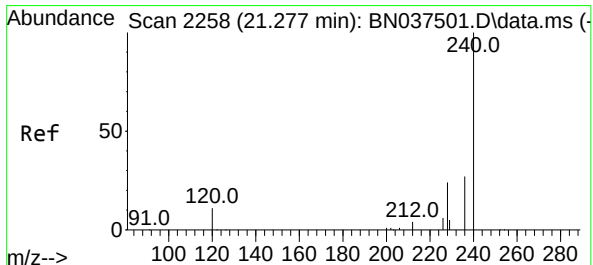
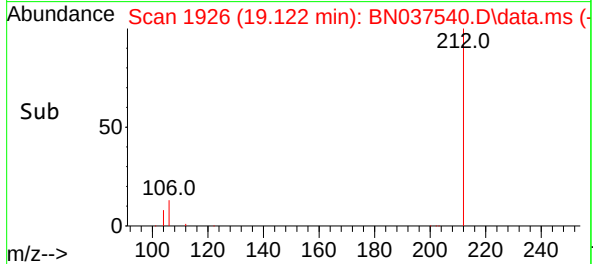
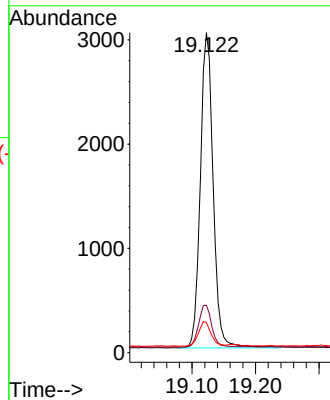
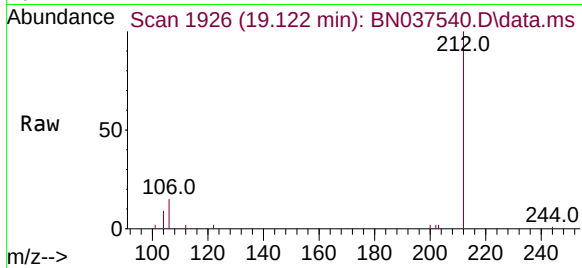




#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

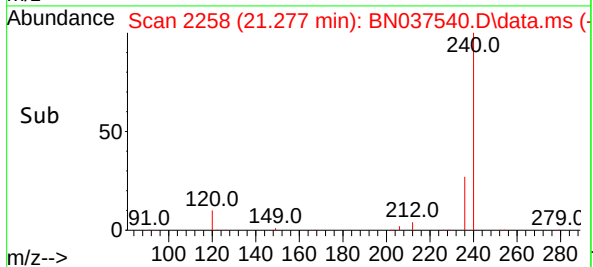
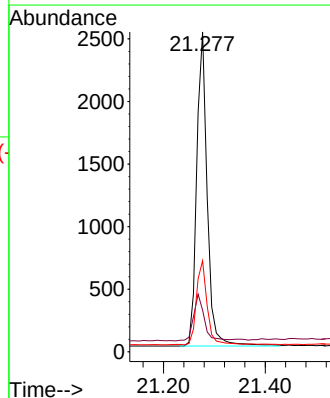
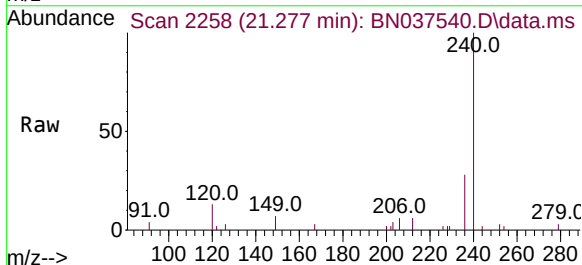
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

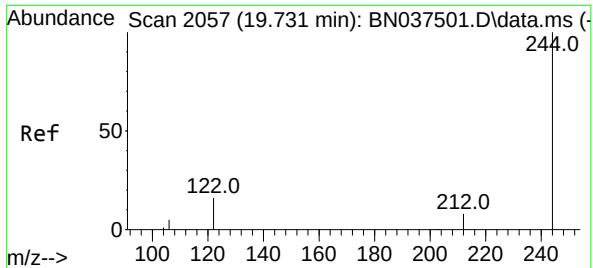
Tgt Ion:	212	Resp:	4242
Ion	Ratio	Lower	Upper
212	100		
106	13.6	12.2	18.4
104	7.6	6.7	10.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. 0.000 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

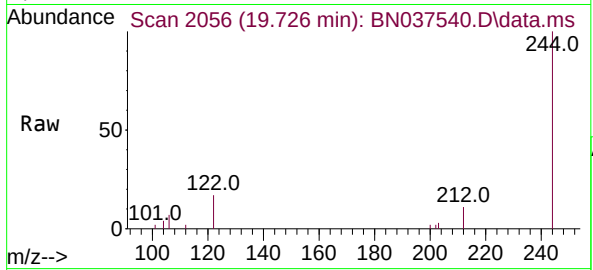
Tgt Ion:	240	Resp:	3605
Ion	Ratio	Lower	Upper
240	100		
120	13.0	10.7	16.1
236	28.5	22.6	33.8



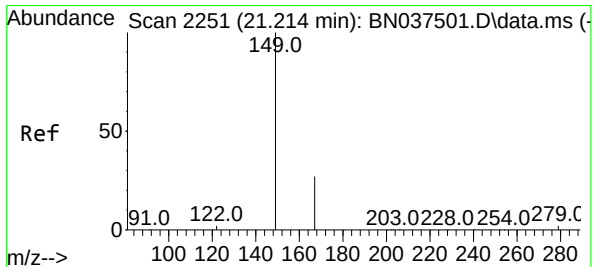
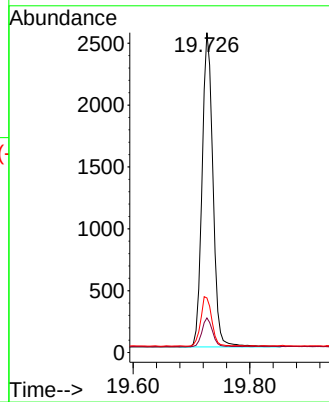
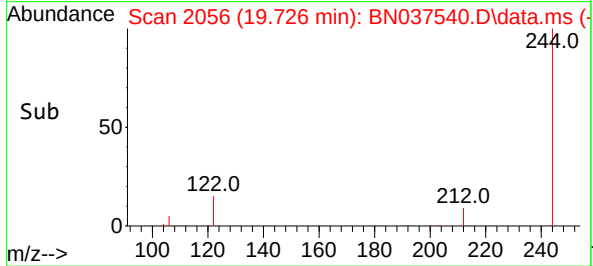


#31
Terphenyl-d14
Concen: 0.423 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250717

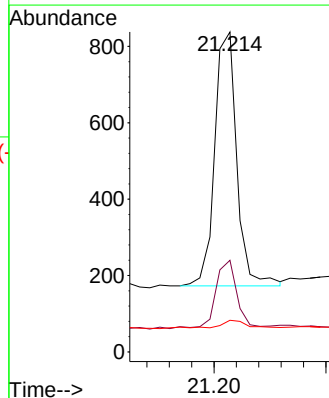
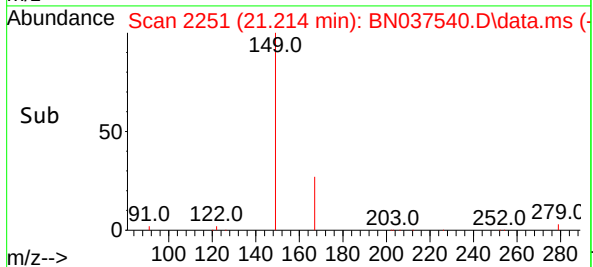
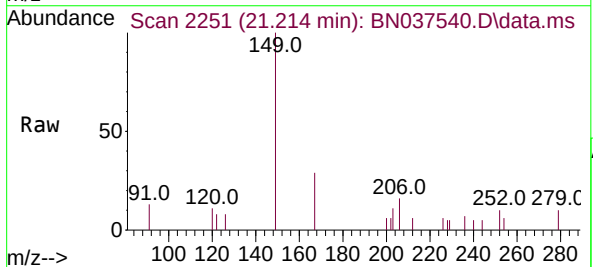


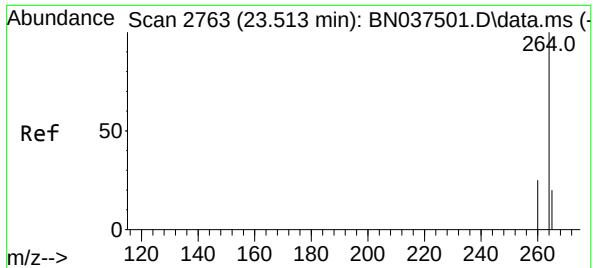
Tgt Ion:244 Resp: 3278
Ion Ratio Lower Upper
244 100
212 10.8 7.4 11.2
122 17.1 13.6 20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.160 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN037540.D
Acq: 22 Jul 2025 15:40

Tgt Ion:149 Resp: 909
Ion Ratio Lower Upper
149 100
167 26.0 21.8 32.8
279 3.2 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.511 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037540.D

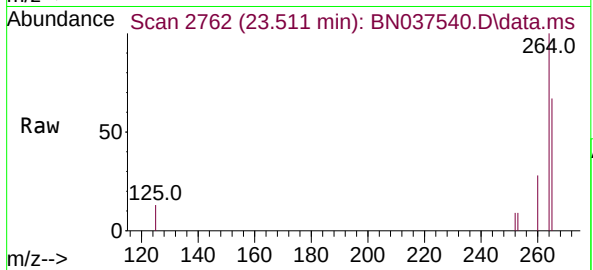
Acq: 22 Jul 2025 15:40

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20250717



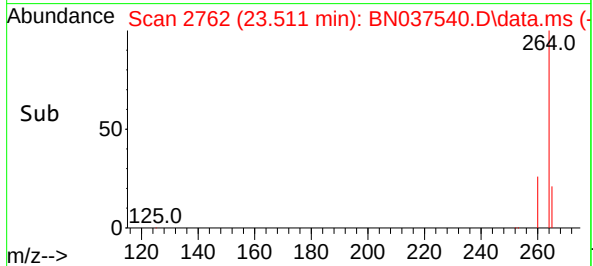
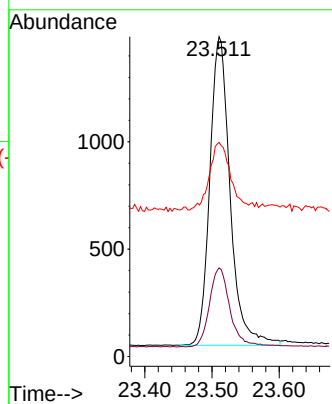
Tgt Ion:264 Resp: 3019

Ion Ratio Lower Upper

264 100

260 27.7 21.2 31.8

265 66.9 40.4 60.6#





CALIBRATION SUMMARY

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

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

Calibration Files

0.1 =BN037499.D 0.2 =BN037500.D 0.4 =BN037501.D 0.8 =BN037502.D 1.6 =BN037503.D 3.2 =BN037504.D 5 =BN037505.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.409	0.395	0.371	0.398	0.380	0.354	0.385	5.29	
3)	n-Nitrosodimet...	0.466	0.464	0.465	0.508	0.499	0.501	0.484	4.31	
4) S	2-Fluorophenol	1.038	1.011	0.985	0.908	0.982	0.971	1.030	0.989	4.42
5) S	Phenol-d6	1.448	1.238	1.190	1.105	1.201	1.229	1.275	1.241	8.52
6)	bis(2-Chloroet...	1.082	1.052	1.024	0.983	1.037	1.033	1.016	1.033	2.99
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.311	0.288	0.283	0.270	0.300	0.305	0.336	0.299	7.20
9)	Naphthalene	1.069	1.054	1.046	1.009	1.091	1.073	1.126	1.067	3.45
10)	Hexachlorobuta...	0.229	0.237	0.235	0.223	0.245	0.236	0.246	0.236	3.44
11) SURR2	Methylnaphth...	0.556	0.534	0.541	0.522	0.562	0.590	0.711	0.574	11.24
12)	2-Methylnaphth...	0.704	0.655	0.678	0.665	0.716	0.736	0.756	0.701	5.34
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.197	0.173	0.173	0.176	0.194	0.215	0.248	0.197	13.98
15) S	2-Fluorobiphenyl	1.818	1.794	2.045	2.024	2.277	2.205	2.397	2.080	10.91
16)	Acenaphthylene	1.723	1.708	1.719	1.684	1.830	1.895	1.981	1.792	6.30
17)	Acenaphthene	1.239	1.160	1.172	1.150	1.238	1.251	1.320	1.218	5.03
18)	Fluorene	1.592	1.488	1.485	1.486	1.605	1.606	1.717	1.569	5.56
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.044	0.041	0.047	0.057	0.070	0.080	0.057	27.89	
21)	4-Bromophenyl-...	0.248	0.247	0.243	0.242	0.268	0.272	0.274	0.256	5.58
22)	Hexachlorobenzene	0.315	0.330	0.328	0.321	0.345	0.340	0.338	0.331	3.26
23)	Atrazine	0.173	0.161	0.159	0.158	0.181	0.200	0.220	0.179	13.24
24)	Pentachlorophenol	0.131	0.125	0.126	0.151	0.170	0.189	0.149	17.64	
25)	Phenanthrene	1.167	1.163	1.160	1.129	1.248	1.248	1.273	1.198	4.70
26)	Anthracene	1.025	1.025	1.013	1.023	1.160	1.176	1.232	1.093	8.45
27) SURR	Fluoranthene-d10	1.023	0.998	0.962	0.928	1.041	1.078	1.385	1.060	14.34
28)	Fluoranthene	1.358	1.310	1.290	1.270	1.429	1.431	1.585	1.382	7.96
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.754	1.559	1.607	1.549	1.607	1.665	1.539	1.612	4.74
31) S	Terphenyl-d14	0.926	0.815	0.844	0.811	0.854	0.902	0.865	0.859	4.94
32)	Benzo(a)anthra...	1.414	1.357	1.341	1.285	1.429	1.464	1.517	1.401	5.63
33)	Chrysene	1.452	1.461	1.434	1.358	1.488	1.490	1.528	1.459	3.70
34)	Bis(2-ethylhex...	0.603	0.564	0.538	0.603	0.693	0.779	0.630	14.26	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN071525.M

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

(#) = Out of Range

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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

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

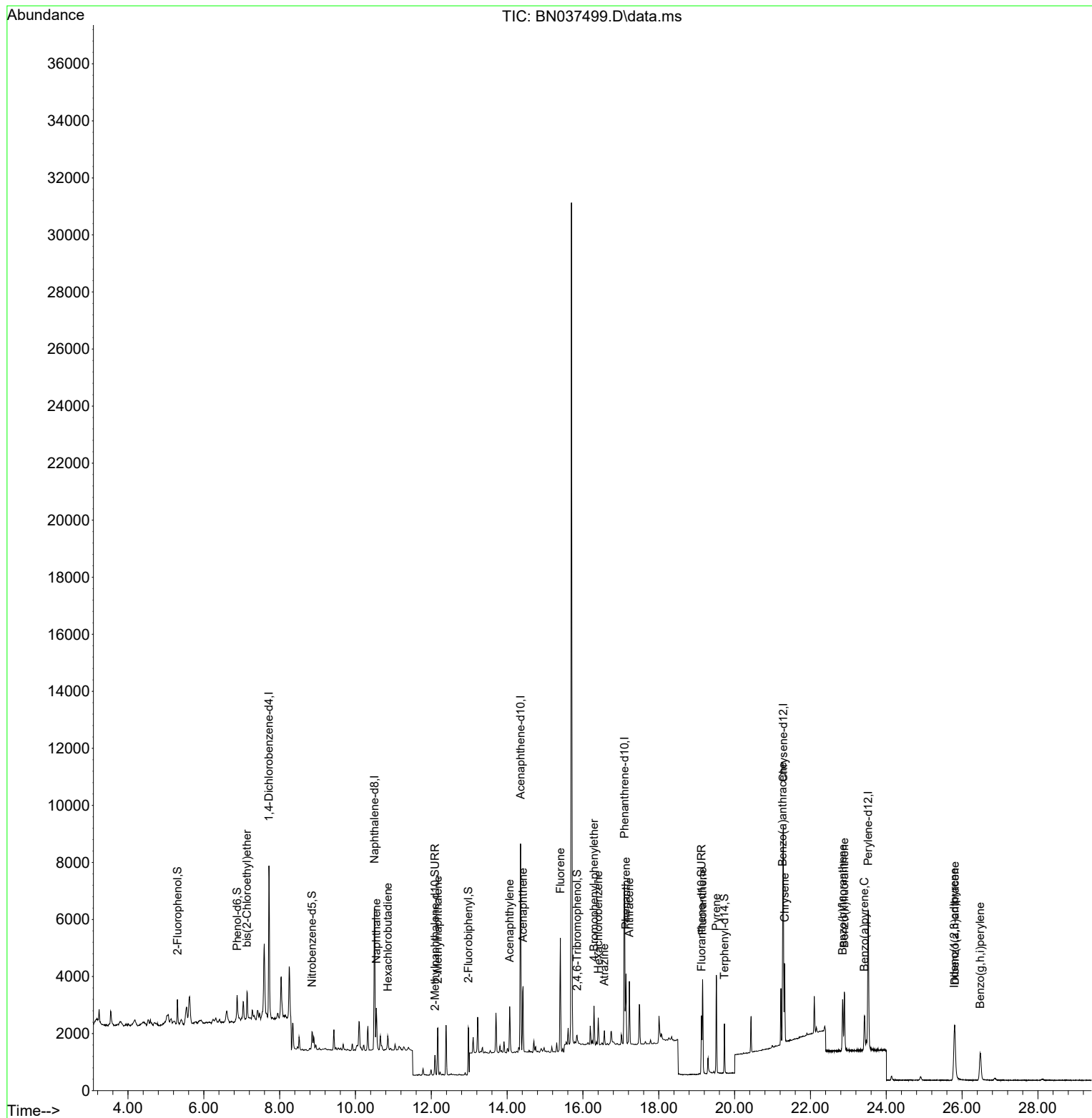
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2613	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	6917	0.400	ng	#-0.01
13) Acenaphthene-d10	14.355	164	4050	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	8501	0.400	ng	0.00
29) Chrysene-d12	21.286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

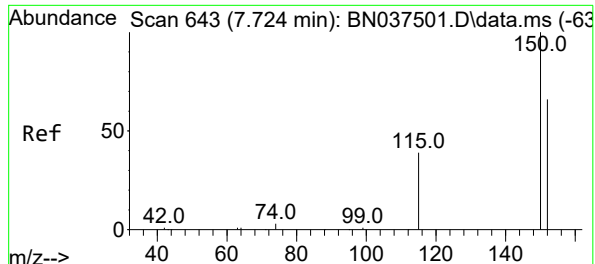
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

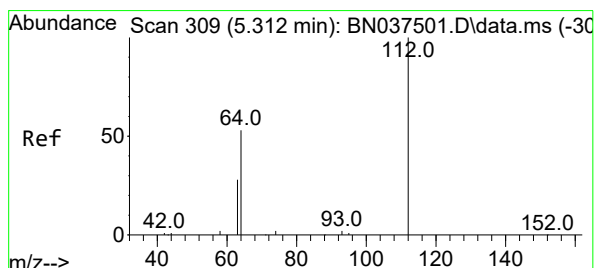
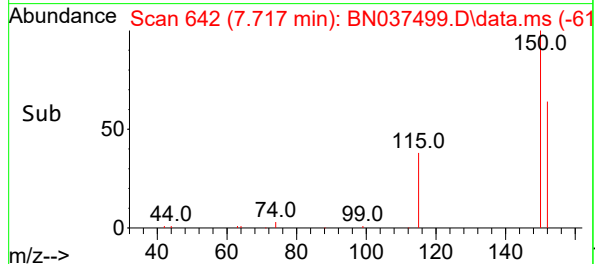
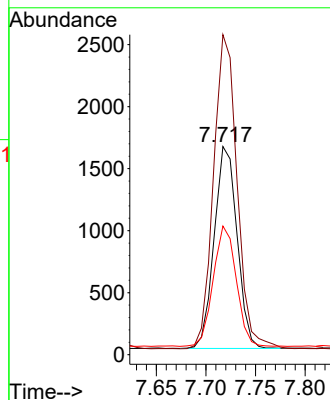
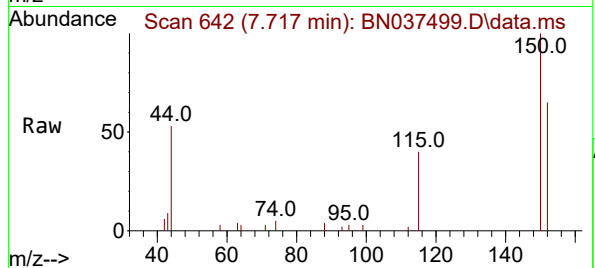




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

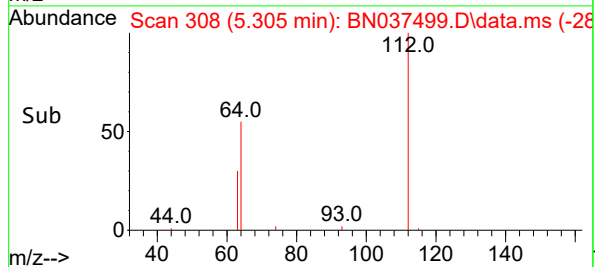
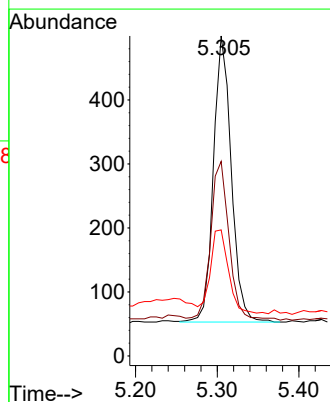
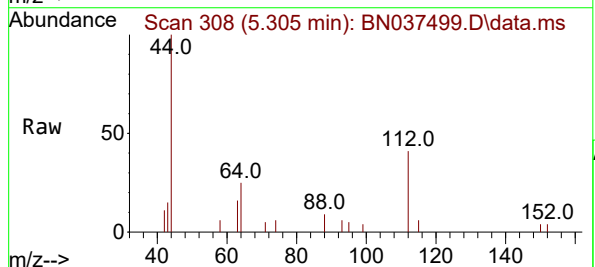
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

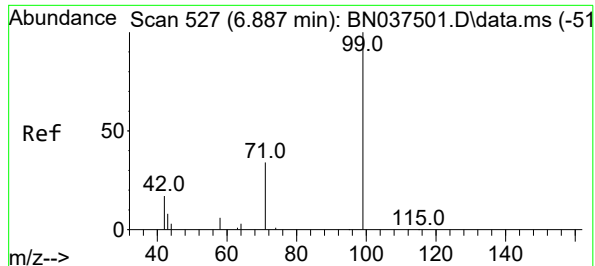
Tgt Ion:152 Resp: 2613
Ion Ratio Lower Upper
152 100
150 153.7 119.8 179.8
115 61.8 49.1 73.7



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

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

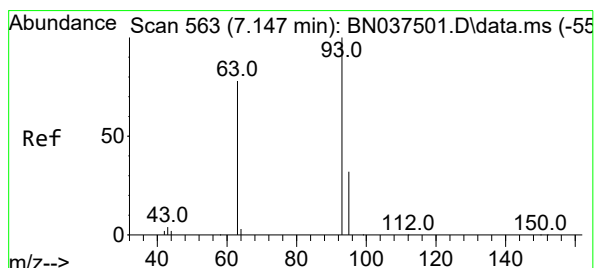
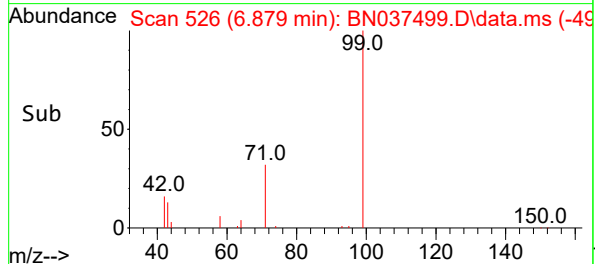
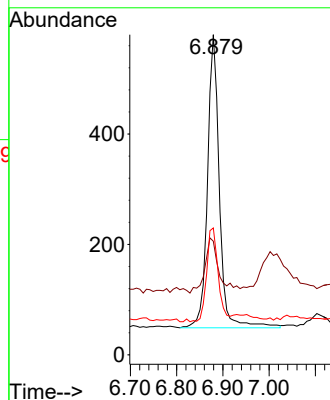
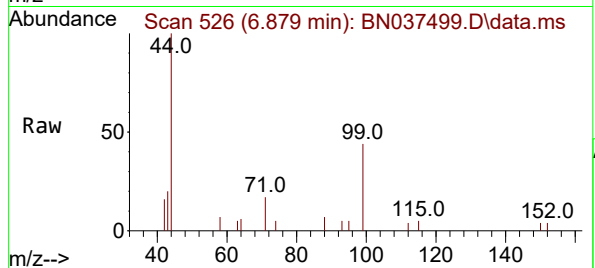




#5
Phenol-d6
Concen: 0.117 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

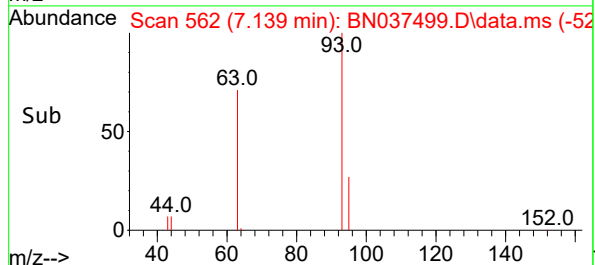
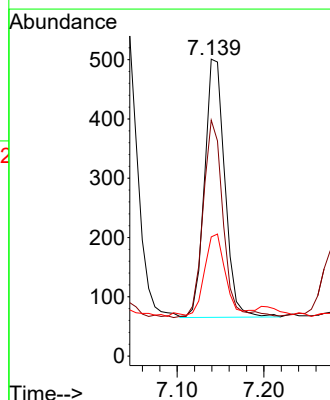
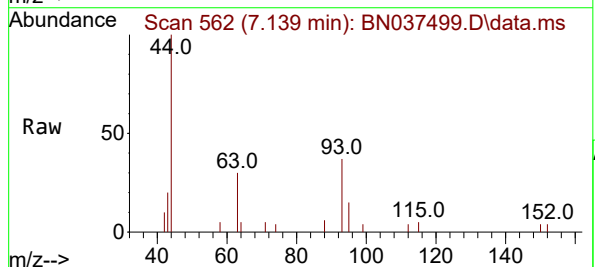
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

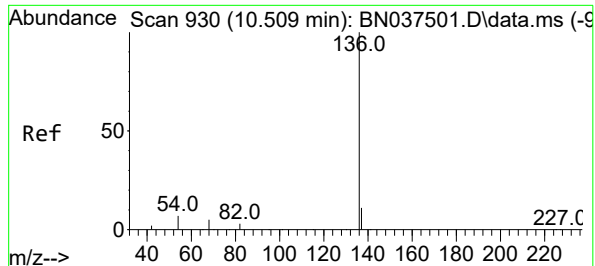
Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.3	17.1	25.7
71	31.1	27.8	41.8



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

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

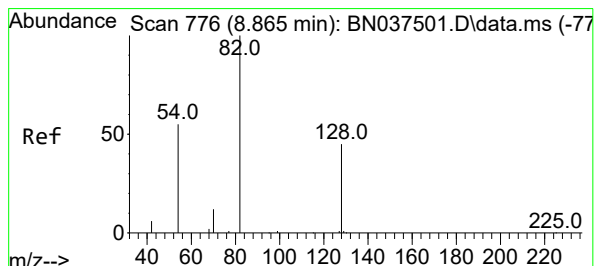
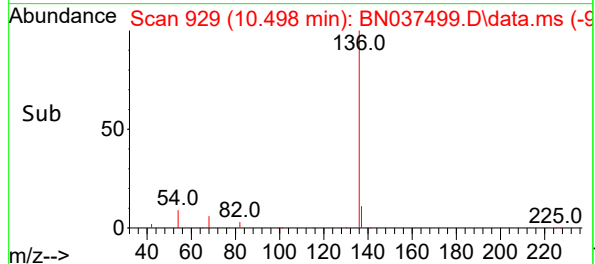
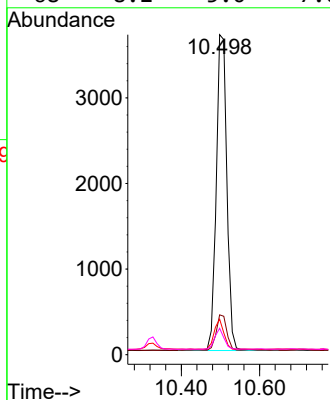
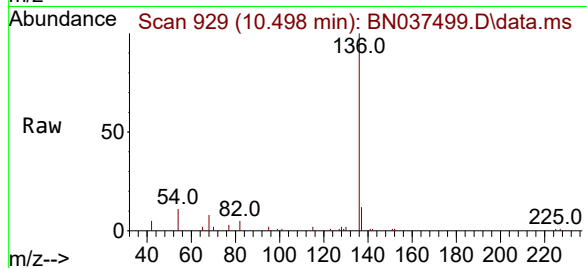




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

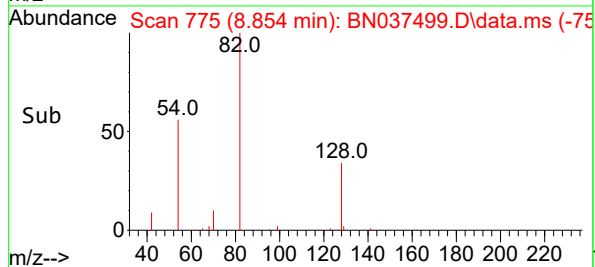
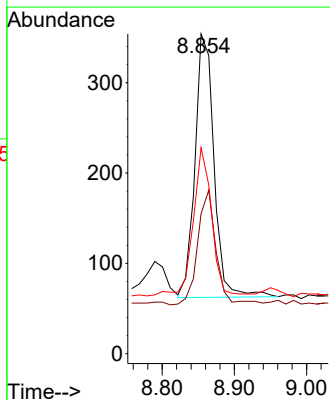
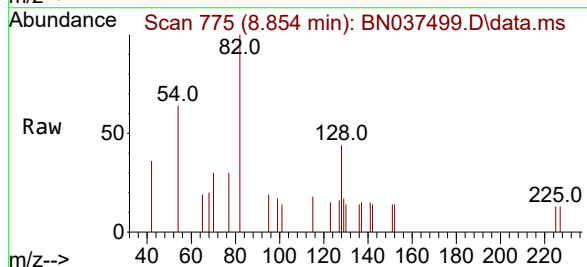
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

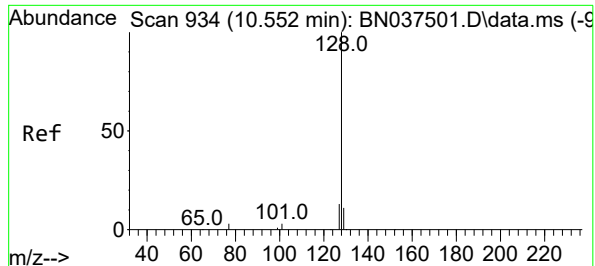
Tgt Ion:136 Resp: 6917
Ion Ratio Lower Upper
136 100
137 12.5 9.8 14.8
54 11.1 6.6 9.8#
68 8.2 5.0 7.6#



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

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





#9

Naphthalene

Concen: 0.100 ng

RT: 10.551 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

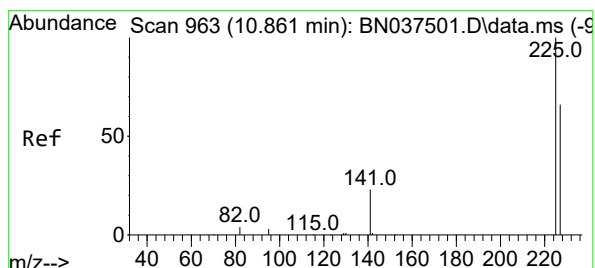
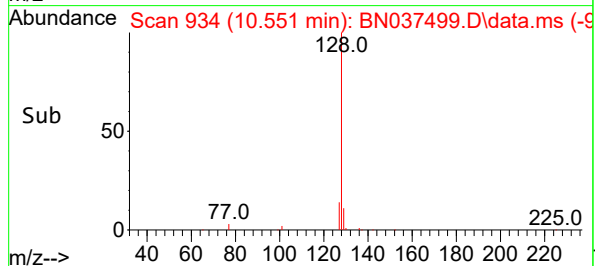
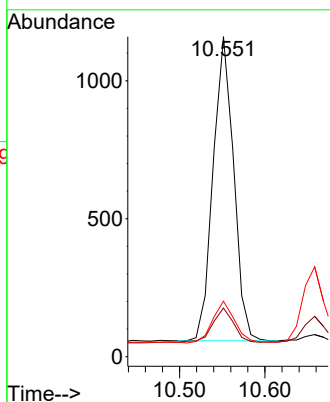
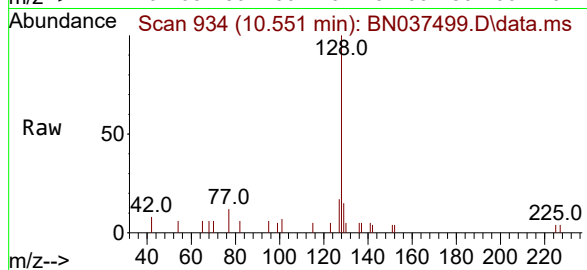
Tgt Ion:128 Resp: 1848

Ion Ratio Lower Upper

128 100

129 15.2 9.7 14.5#

127 17.3 11.5 17.3#



#10

Hexachlorobutadiene

Concen: 0.097 ng

RT: 10.850 min Scan# 962

Delta R.T. -0.011 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

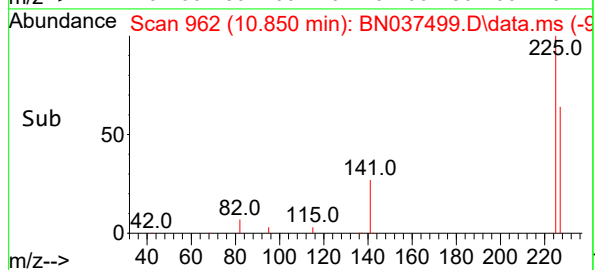
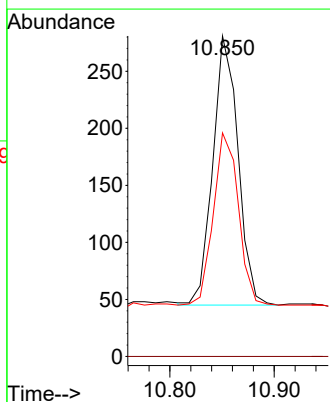
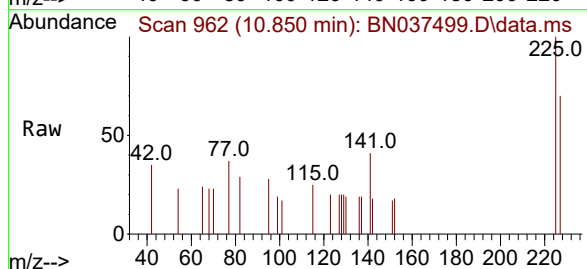
Tgt Ion:225 Resp: 396

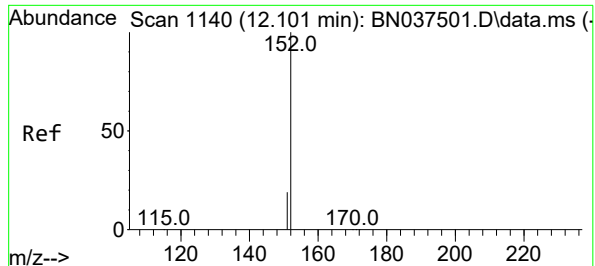
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.4 51.0 76.4

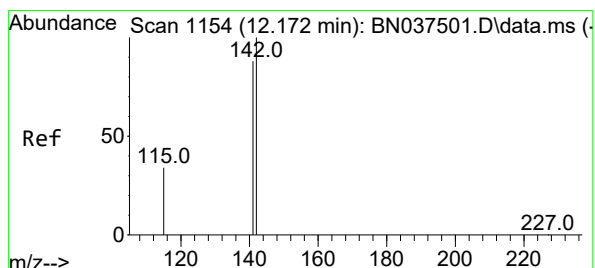
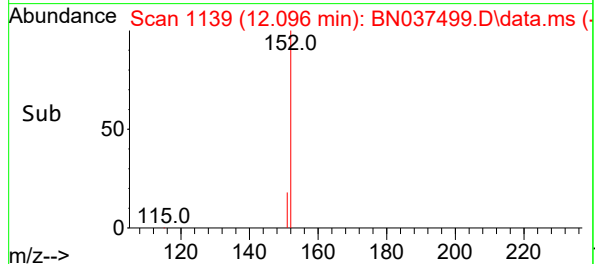
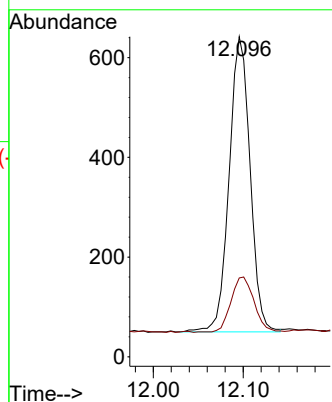
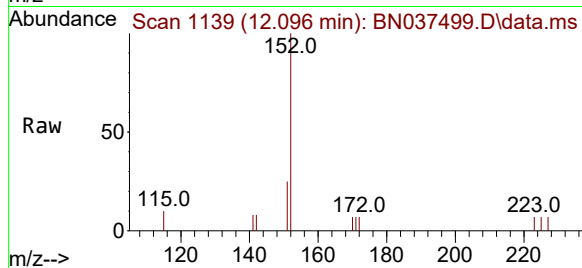




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

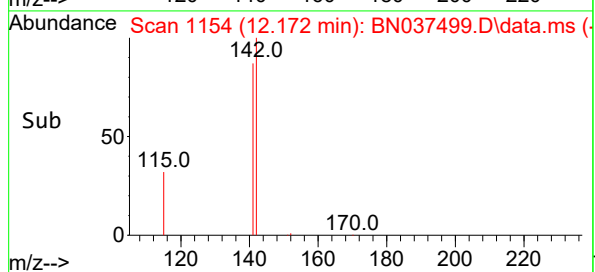
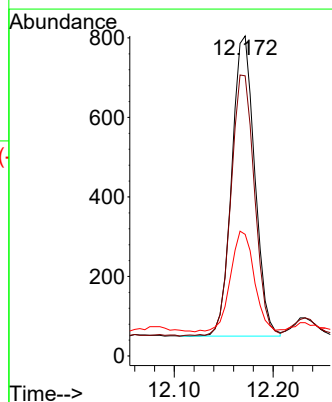
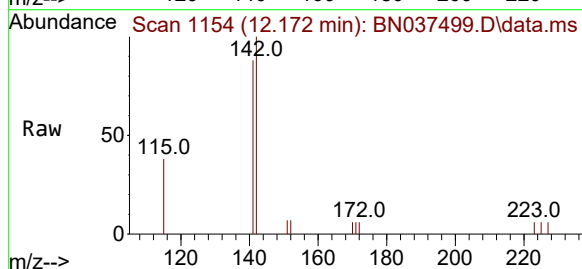
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

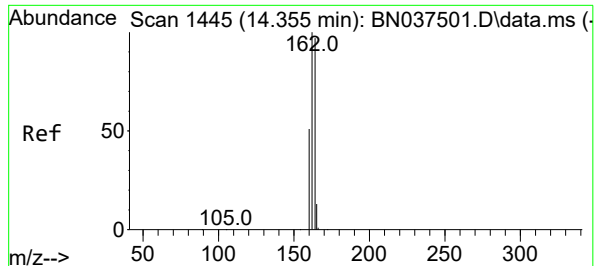
Tgt Ion:152 Resp: 962
Ion Ratio Lower Upper
152 100
151 20.3 16.8 25.2



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

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

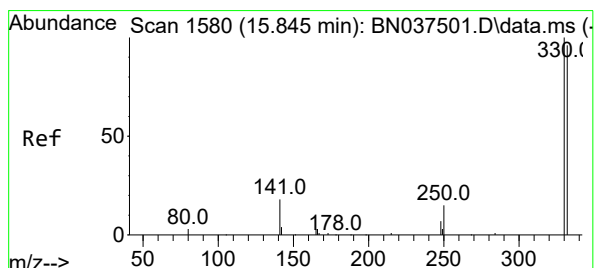
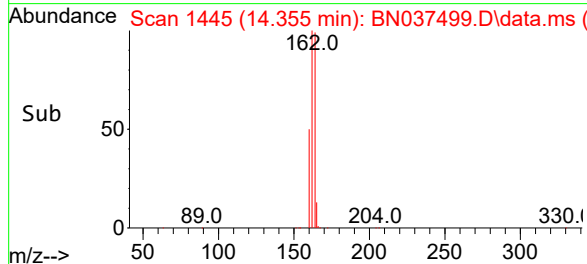
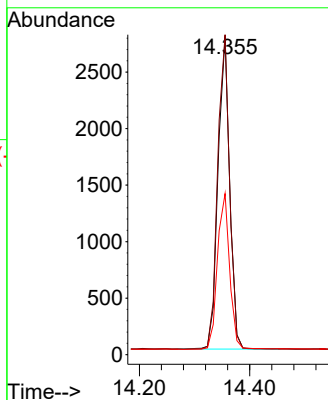
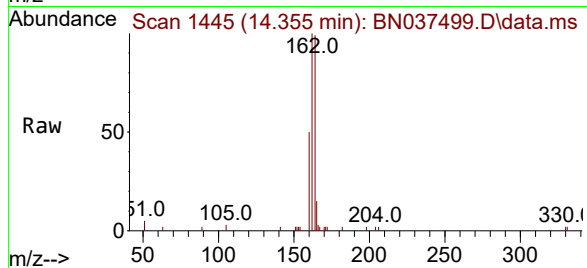




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

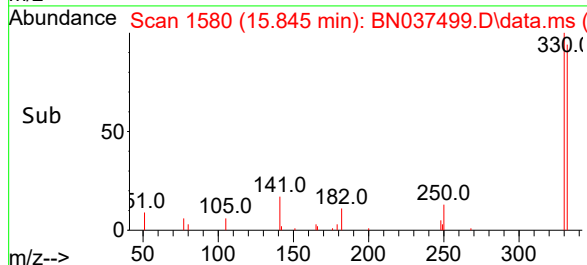
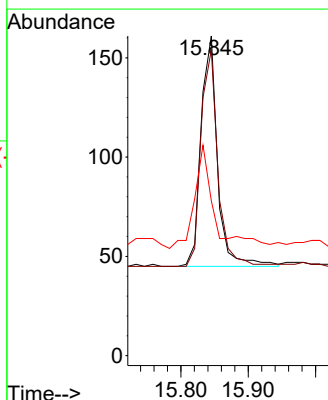
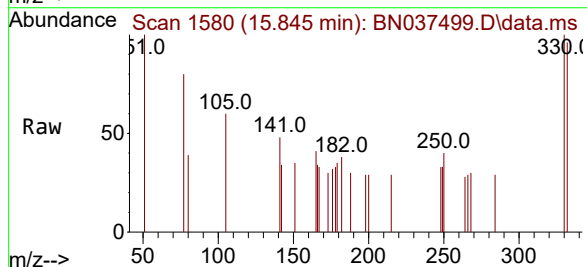
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

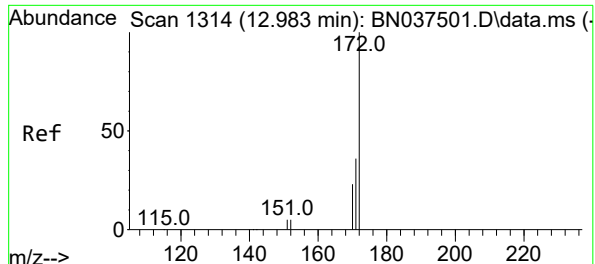
Tgt Ion:164 Resp: 4050
Ion Ratio Lower Upper
164 100
162 100.5 82.0 123.0
160 50.6 42.4 63.6



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

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





#15

2-Fluorobiphenyl

Concen: 0.087 ng

RT: 12.978 min Scan# 1313

Delta R.T. -0.005 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

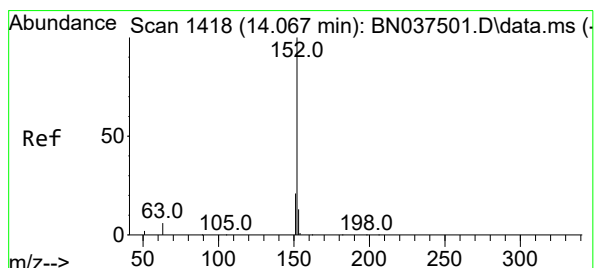
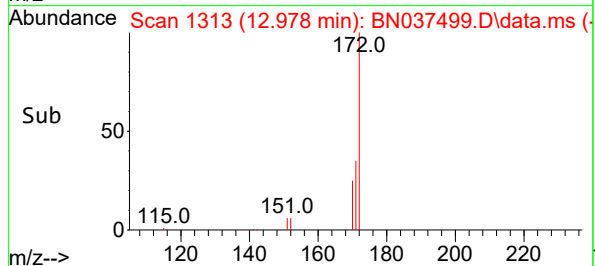
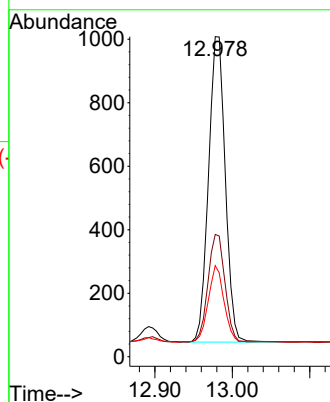
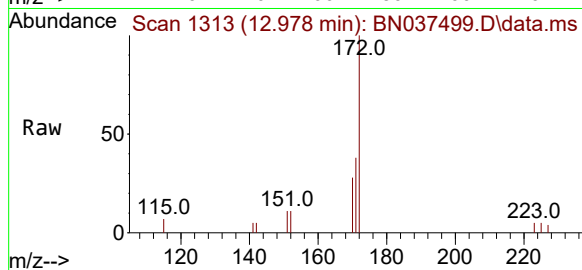
Tgt Ion:172 Resp: 1841

Ion Ratio Lower Upper

172 100

171 38.2 29.4 44.2

170 28.5 19.4 29.0



#16

Acenaphthylene

Concen: 0.096 ng

RT: 14.067 min Scan# 1418

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

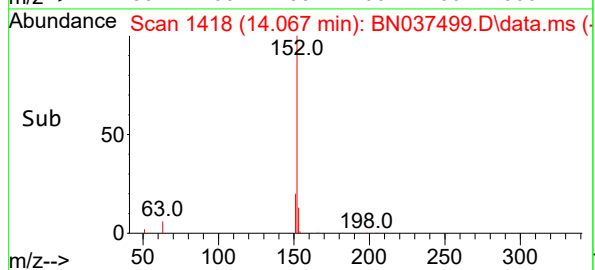
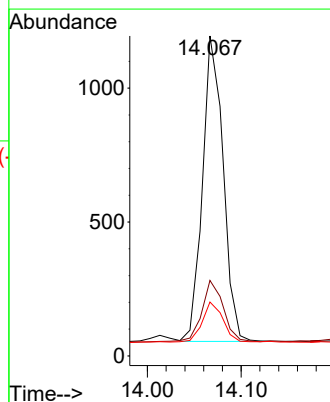
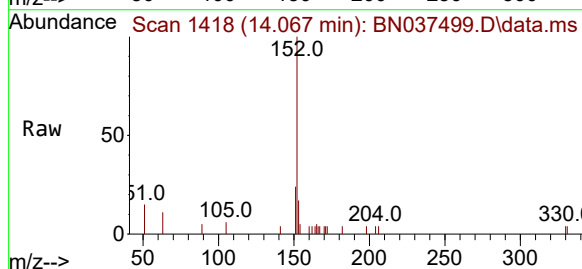
Tgt Ion:152 Resp: 1745

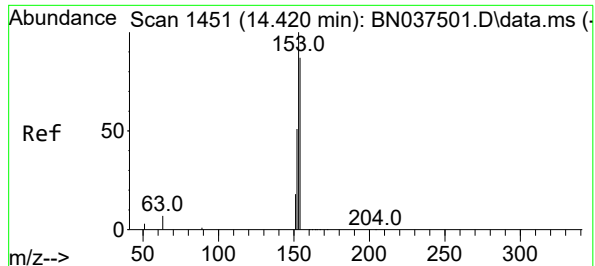
Ion Ratio Lower Upper

152 100

151 21.7 15.9 23.9

153 14.3 10.7 16.1





#17

Acenaphthene

Concen: 0.102 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

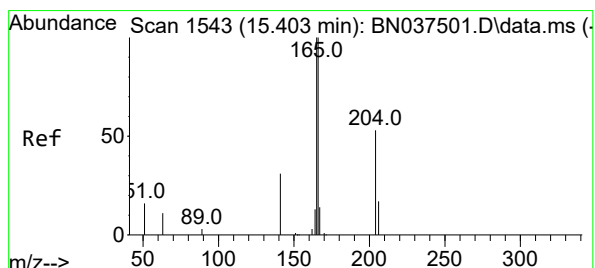
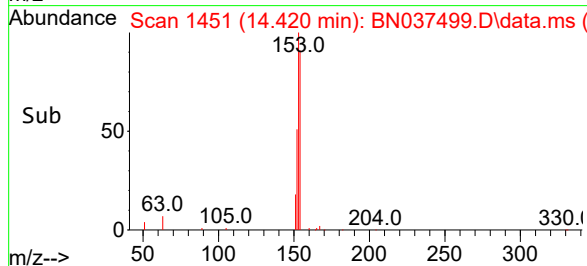
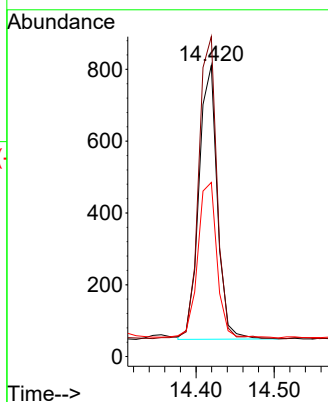
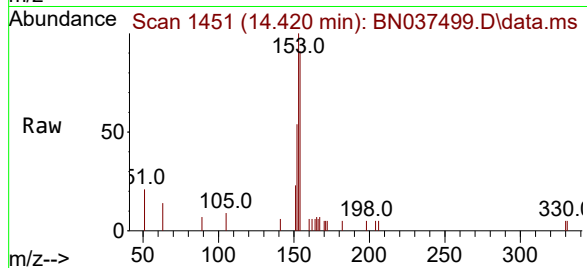
Tgt Ion:154 Resp: 1254

Ion Ratio Lower Upper

154 100

153 108.9 89.2 133.8

152 59.4 48.0 72.0



#18

Fluorene

Concen: 0.101 ng

RT: 15.403 min Scan# 1543

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

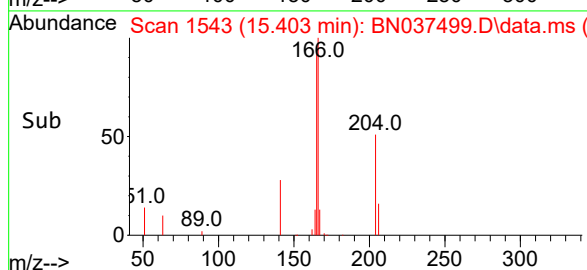
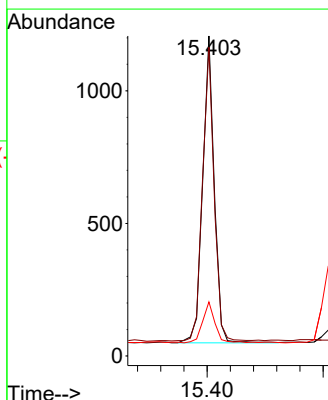
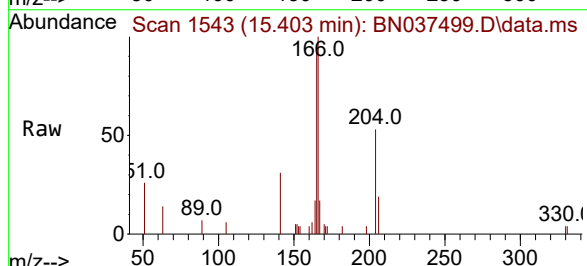
Tgt Ion:166 Resp: 1612

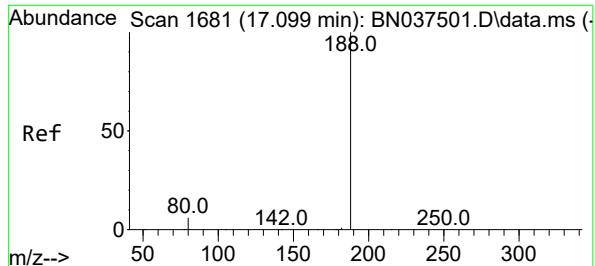
Ion Ratio Lower Upper

166 100

165 94.6 78.1 117.1

167 14.0 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

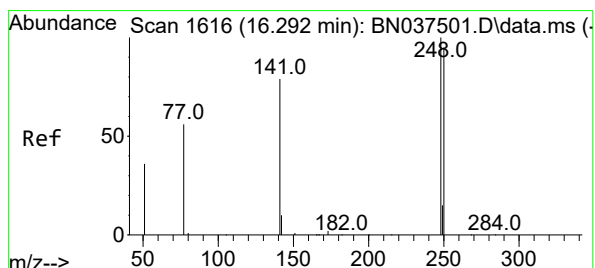
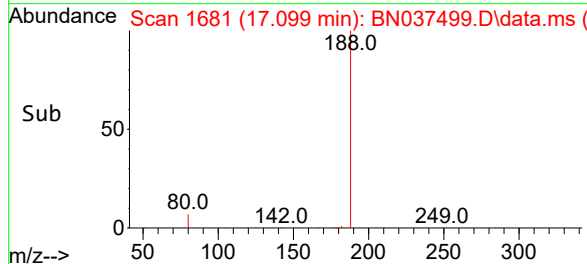
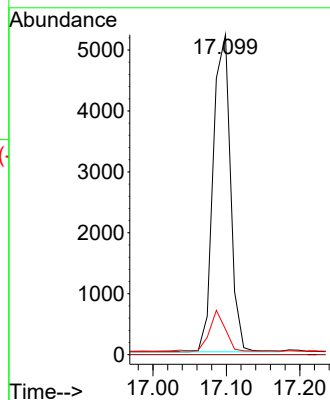
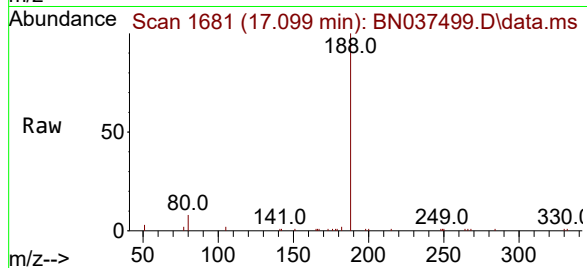
Tgt Ion:188 Resp: 8501

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.9 6.0 9.0



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.292 min Scan# 1616

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

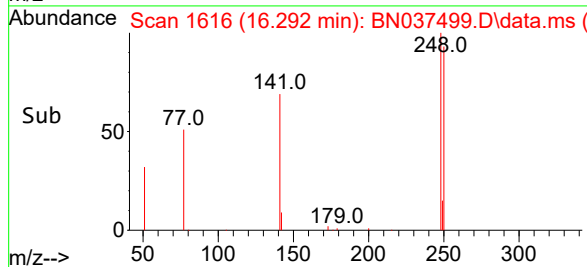
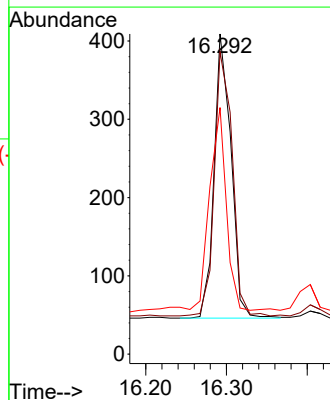
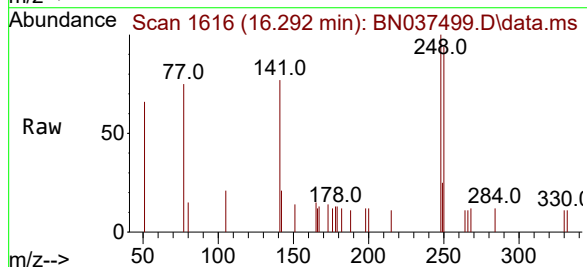
Tgt Ion:248 Resp: 527

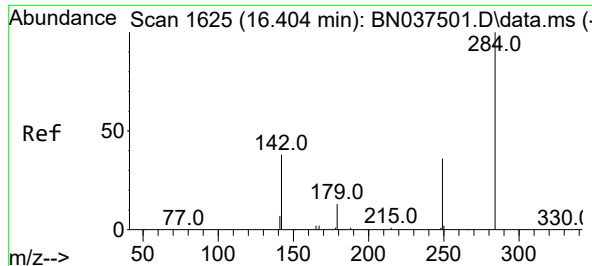
Ion Ratio Lower Upper

248 100

250 94.4 76.2 114.2

141 77.0 63.9 95.9





#22

Hexachlorobenzene

Concen: 0.095 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

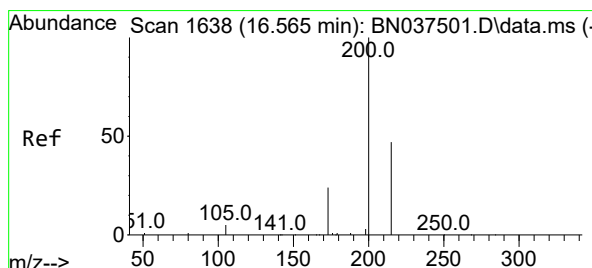
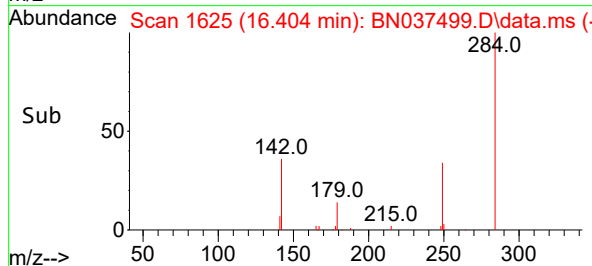
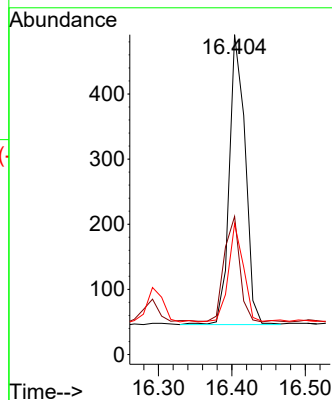
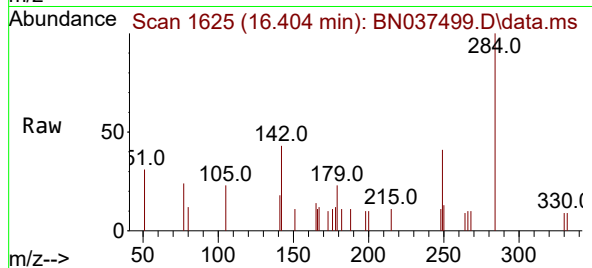
Tgt Ion:284 Resp: 670

Ion Ratio Lower Upper

284 100

142 36.1 28.9 43.3

249 32.4 25.8 38.6



#23

Atrazine

Concen: 0.097 ng

RT: 16.565 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

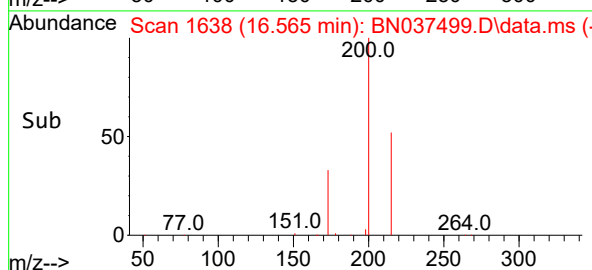
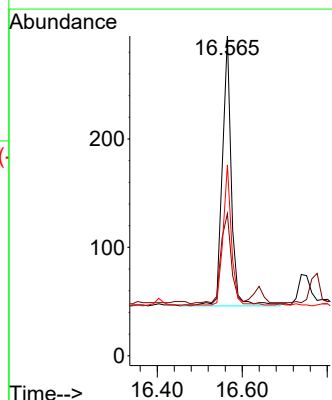
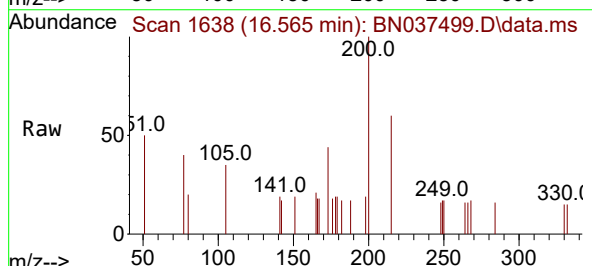
Tgt Ion:200 Resp: 368

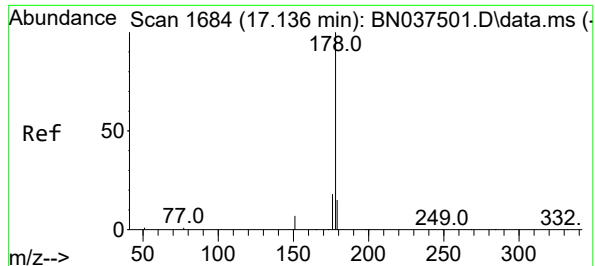
Ion Ratio Lower Upper

200 100

173 44.4 23.2 34.8#

215 59.7 40.2 60.4





#25

Phenanthrene

Concen: 0.097 ng

RT: 17.136 min Scan# 1684

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

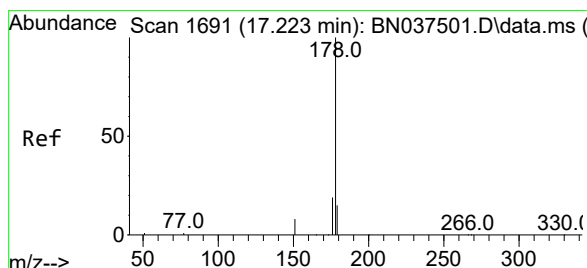
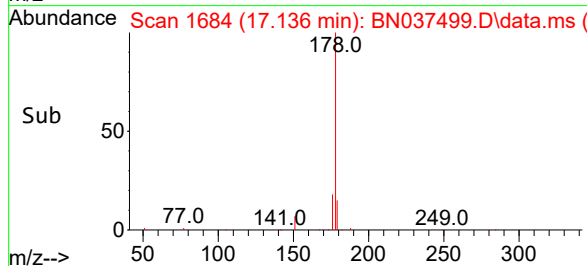
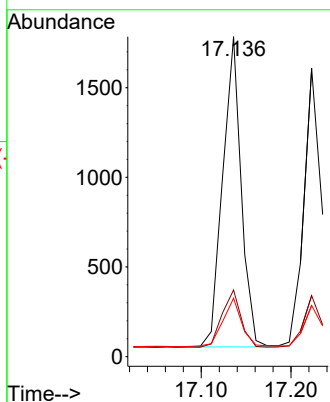
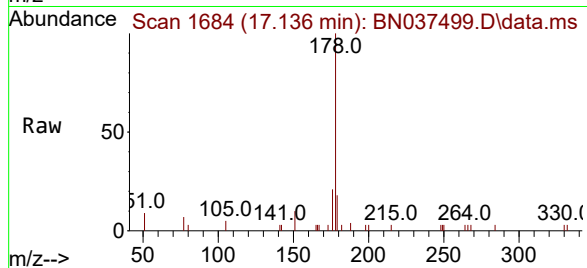
Tgt Ion:178 Resp: 2480

Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.6

179 15.8 12.2 18.2



#26

Anthracene

Concen: 0.094 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

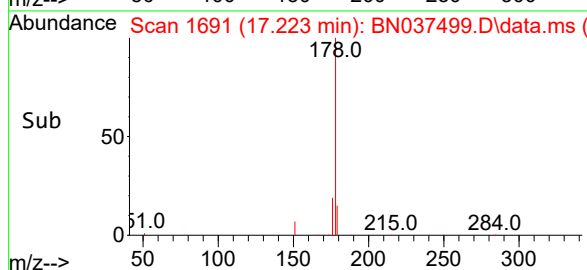
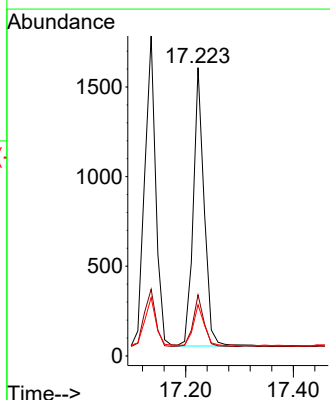
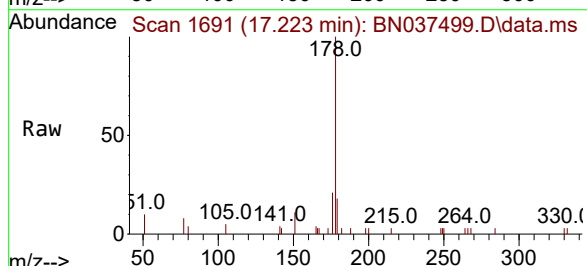
Tgt Ion:178 Resp: 2179

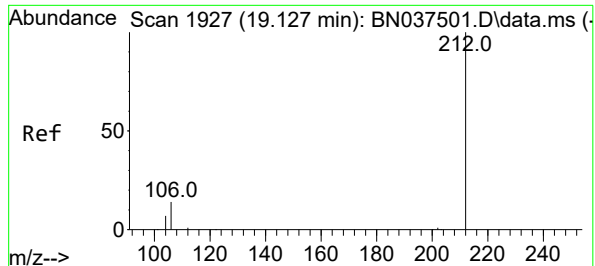
Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.097 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

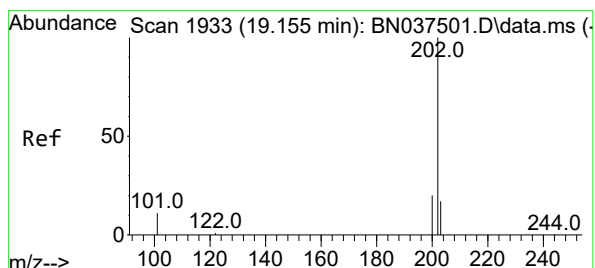
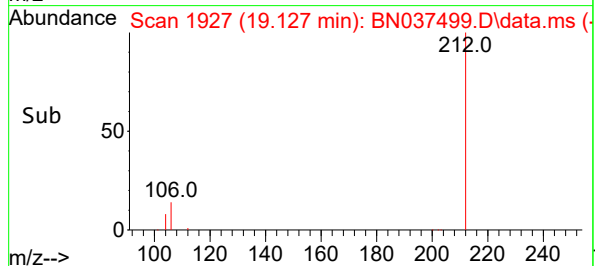
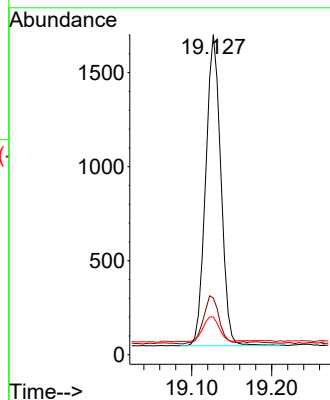
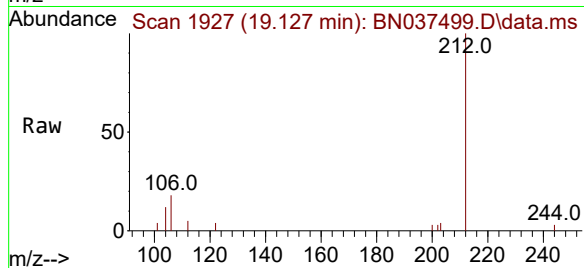
Tgt Ion:212 Resp: 2175

Ion Ratio Lower Upper

212 100

106 15.9 12.2 18.4

104 8.7 6.7 10.1



#28

Fluoranthene

Concen: 0.098 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

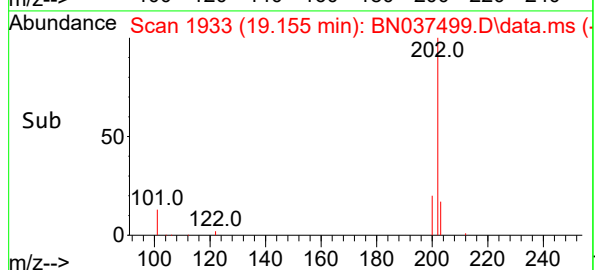
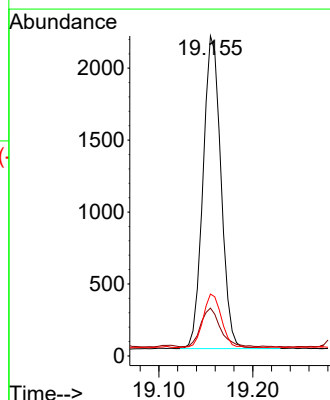
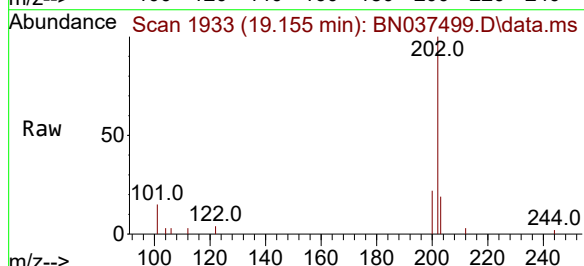
Tgt Ion:202 Resp: 2886

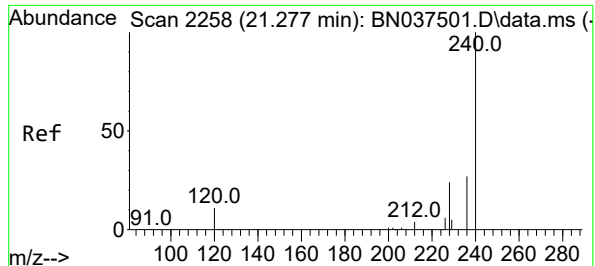
Ion Ratio Lower Upper

202 100

101 13.5 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.286 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

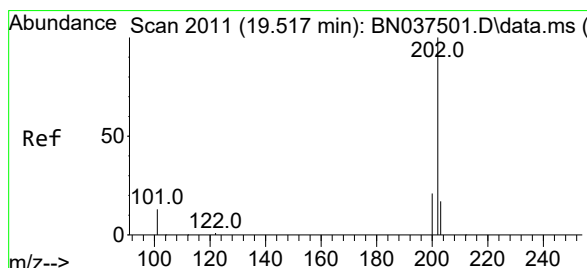
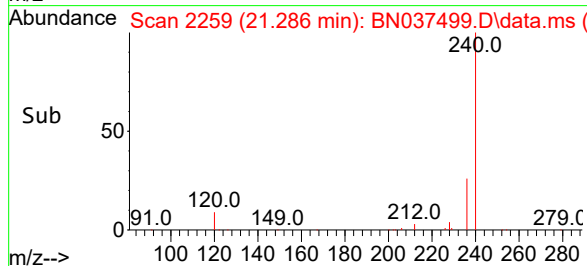
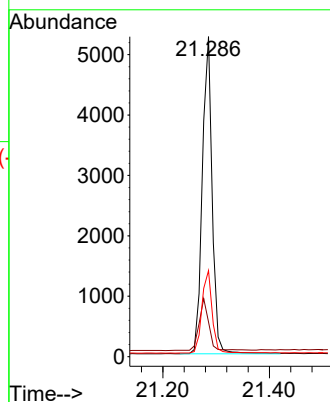
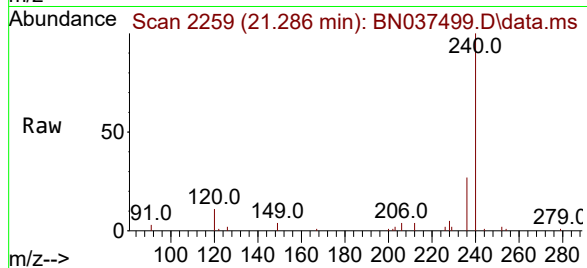
Tgt Ion:240 Resp: 6753

Ion Ratio Lower Upper

240 100

120 10.8 10.7 16.1

236 26.9 22.6 33.8



#30

Pyrene

Concen: 0.109 ng

RT: 19.517 min Scan# 2011

Delta R.T. -0.000 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

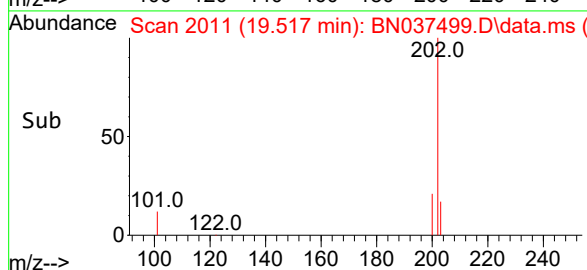
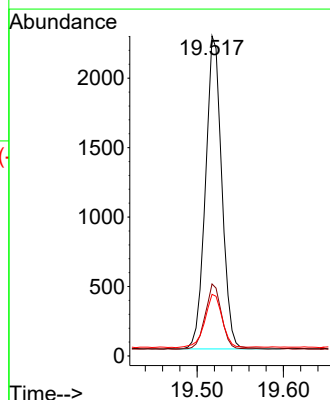
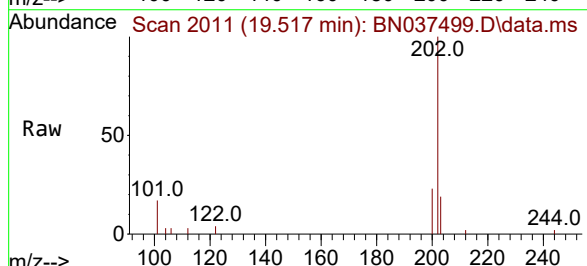
Tgt Ion:202 Resp: 2961

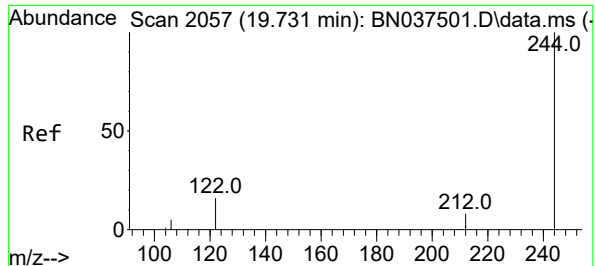
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 18.2 14.3 21.5

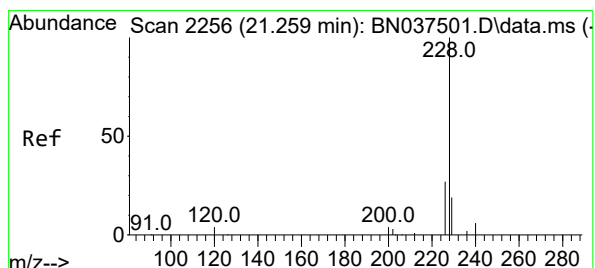
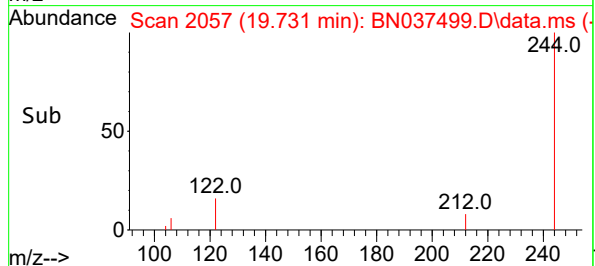
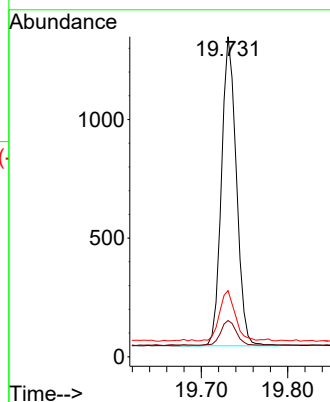
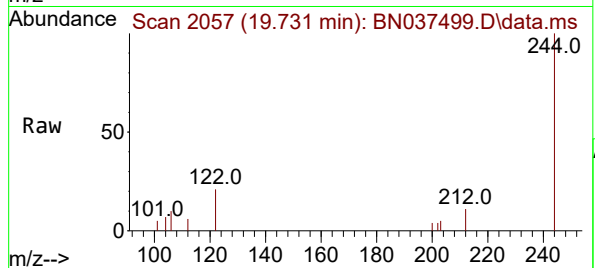




#31
Terphenyl-d14
Concen: 0.108 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

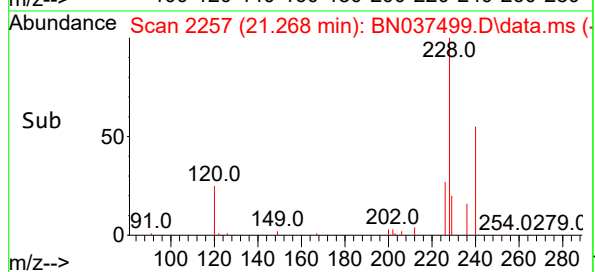
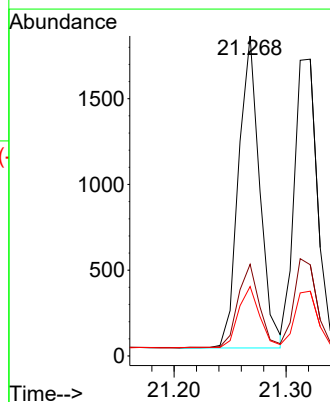
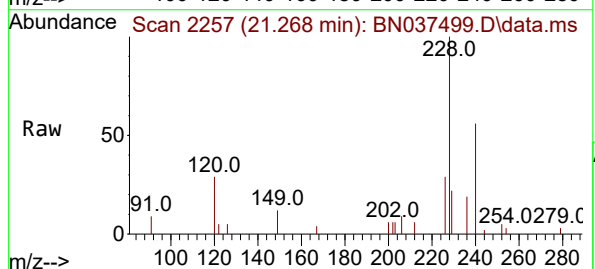
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

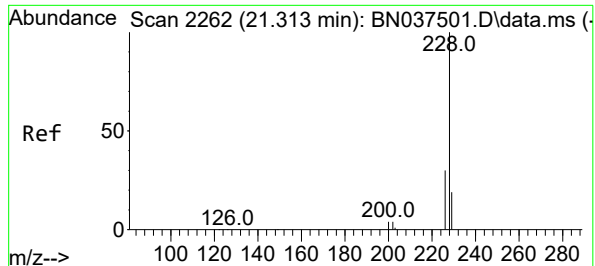
Tgt Ion:244 Resp: 1563
Ion Ratio Lower Upper
244 100
212 11.3 7.4 11.2#
122 20.7 13.6 20.4#



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

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

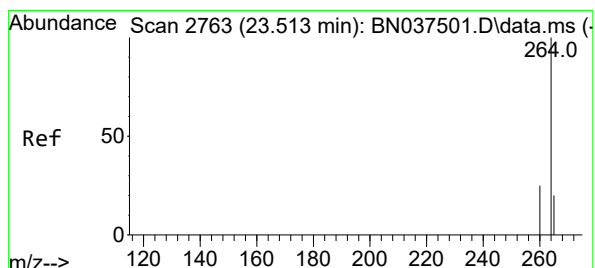
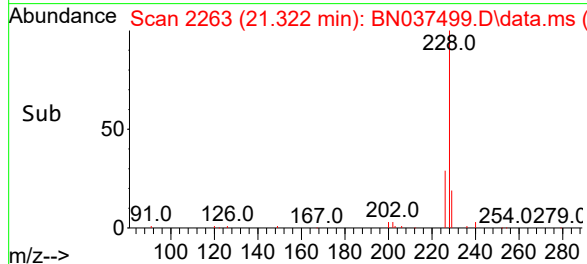
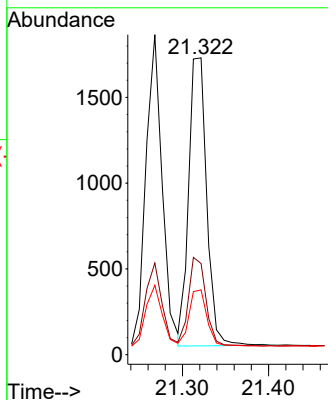
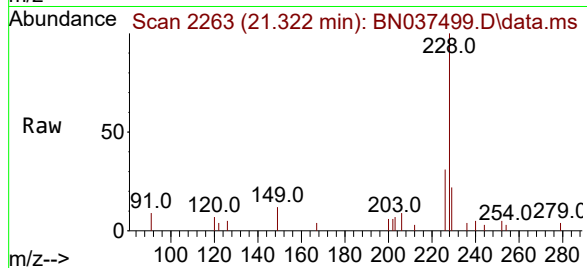




#33
Chrysene
Concen: 0.100 ng
RT: 21.322 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

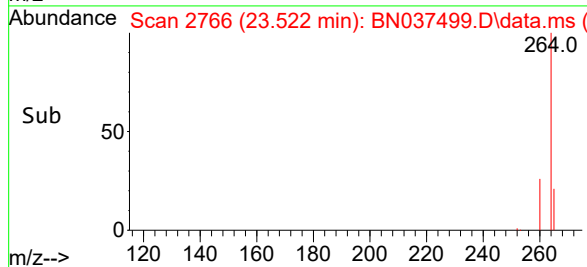
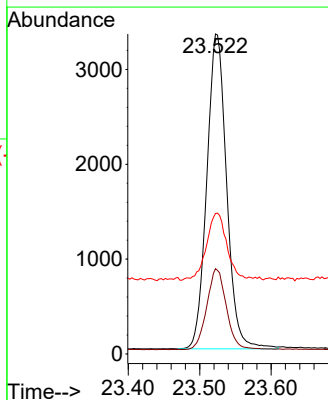
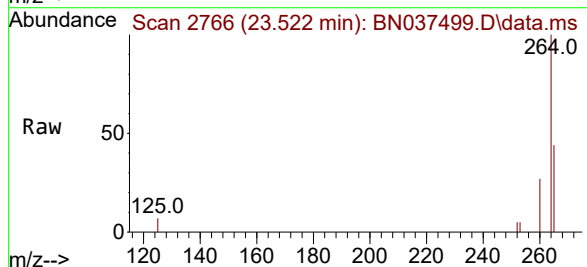
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

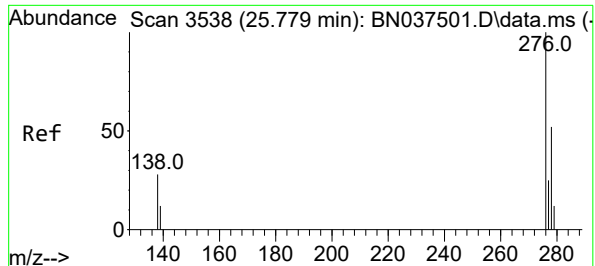
Tgt Ion	228	226	229
Resp:	2451		
Ion Ratio	100	30.7	21.8
Lower		24.2	16.1
Upper		36.4	24.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2766
Delta R.T. 0.009 min
Lab File: BN037499.D
Acq: 15 Jul 2025 12:36

Tgt Ion	264	260	265
Resp:	6399		
Ion Ratio	100	26.6	43.9
Lower		21.2	40.4
Upper		31.8	60.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.090 ng

RT: 25.791 min Scan# 3

Delta R.T. 0.012 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

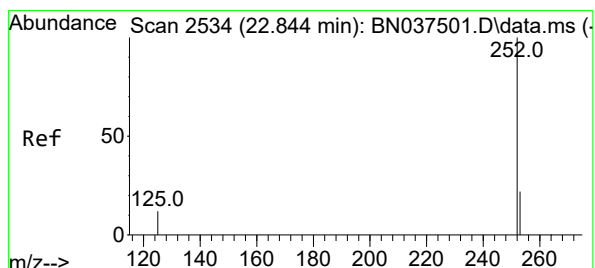
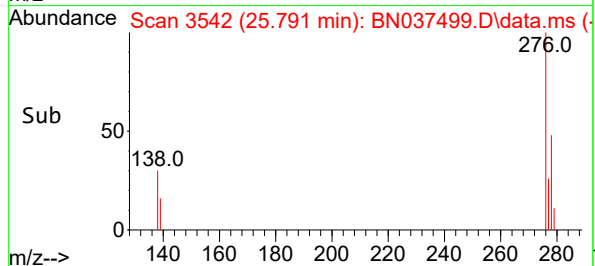
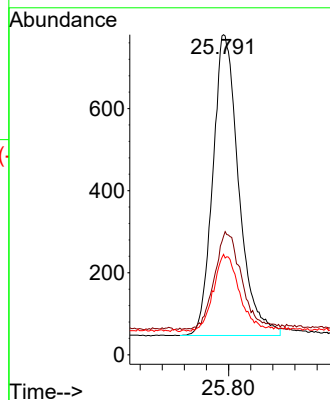
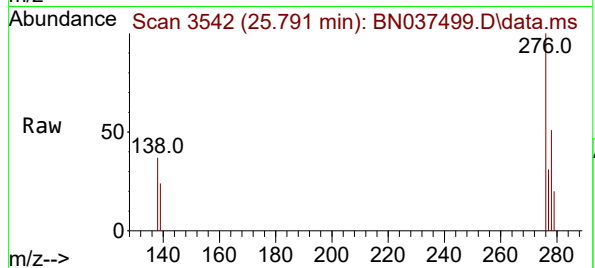
Tgt Ion:276 Resp: 2389

Ion Ratio Lower Upper

276 100

138 33.7 24.0 36.0

277 25.3 20.5 30.7



#37

Benzo(b)fluoranthene

Concen: 0.096 ng

RT: 22.850 min Scan# 2536

Delta R.T. 0.006 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

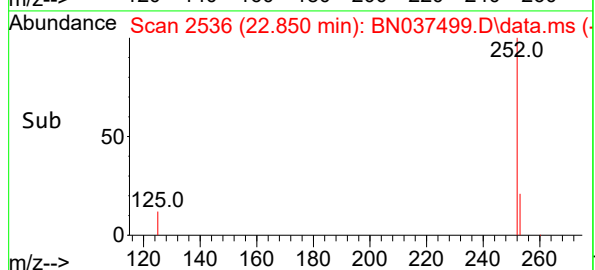
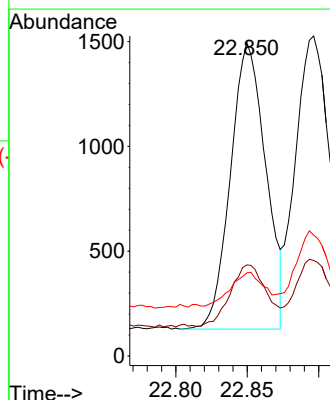
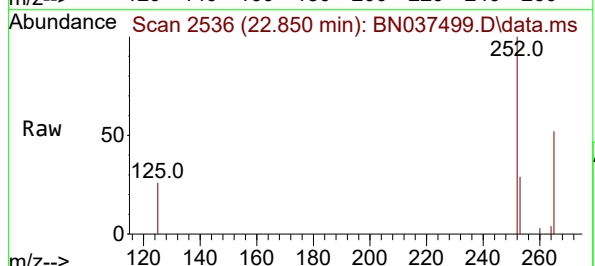
Tgt Ion:252 Resp: 2342

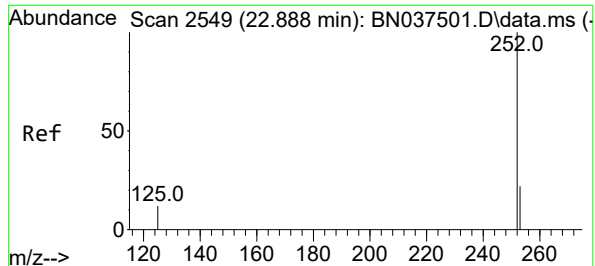
Ion Ratio Lower Upper

252 100

253 29.0 19.5 29.3

125 26.5 13.0 19.6#





#38

Benzo(k)fluoranthene

Concen: 0.097 ng

RT: 22.896 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

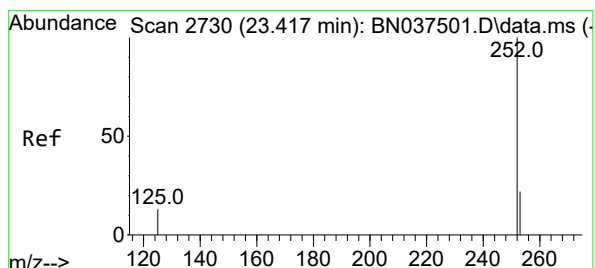
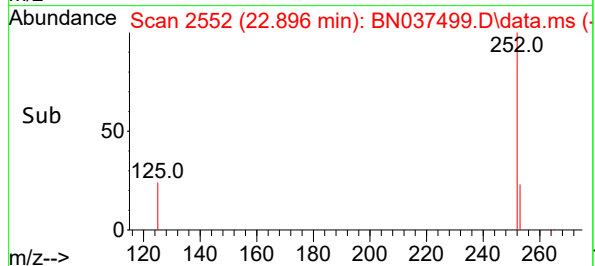
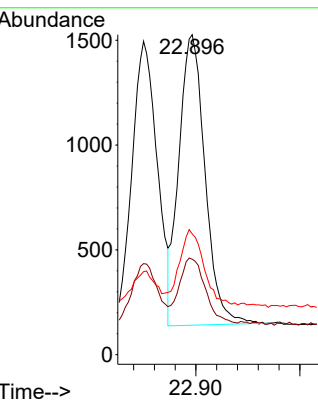
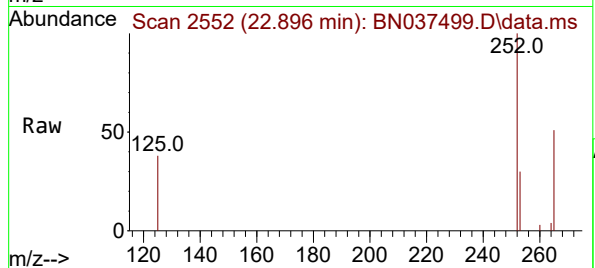
Tgt Ion:252 Resp: 2426

Ion Ratio Lower Upper

252 100

253 29.9 19.5 29.3#

125 37.7 13.1 19.7#



#39

Benzo(a)pyrene

Concen: 0.094 ng

RT: 23.426 min Scan# 2733

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

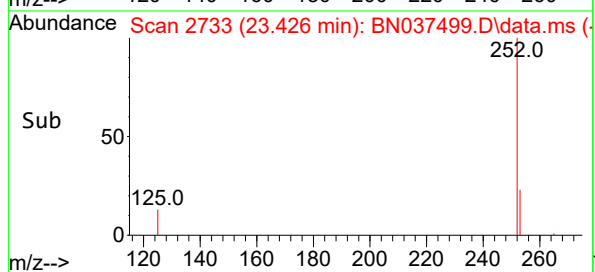
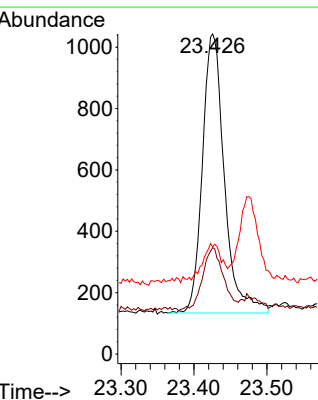
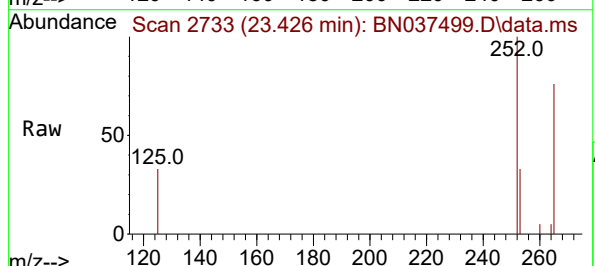
Tgt Ion:252 Resp: 1902

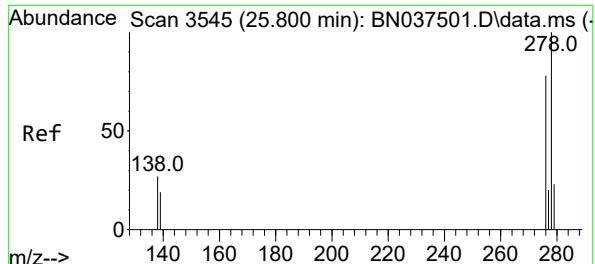
Ion Ratio Lower Upper

252 100

253 33.3 19.9 29.9#

125 33.5 15.2 22.8#





#40

Dibenzo(a,h)anthracene

Concen: 0.089 ng

RT: 25.811 min Scan# 3

Delta R.T. 0.012 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

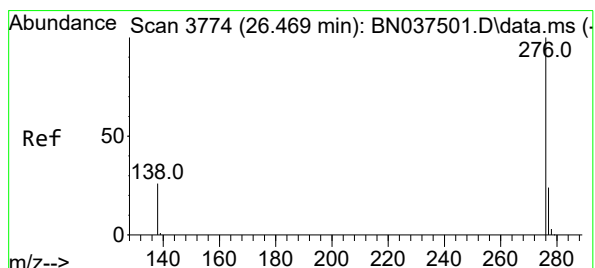
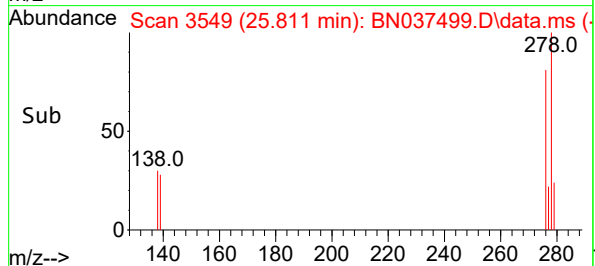
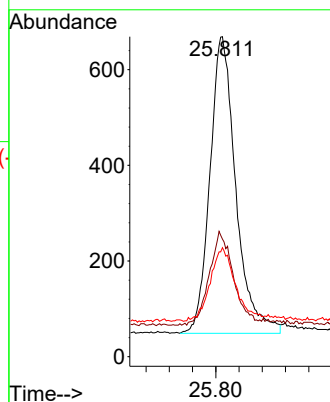
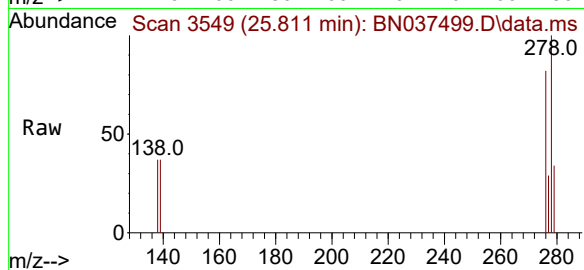
Tgt Ion:278 Resp: 1921

Ion Ratio Lower Upper

278 100

139 36.8 17.5 26.3#

279 34.1 21.3 31.9#



#41

Benzo(g,h,i)perylene

Concen: 0.089 ng

RT: 26.478 min Scan# 3777

Delta R.T. 0.009 min

Lab File: BN037499.D

Acq: 15 Jul 2025 12:36

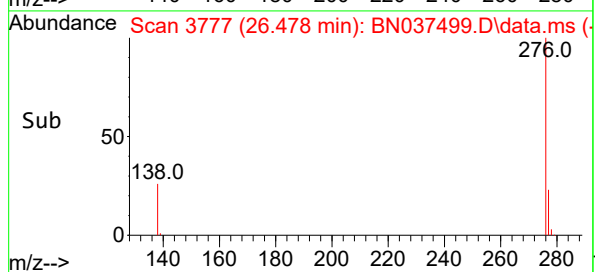
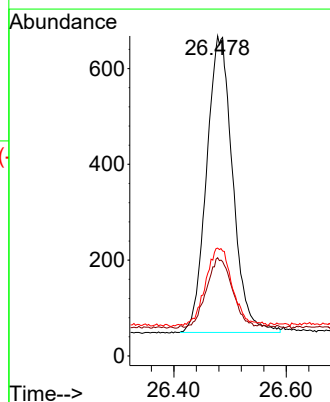
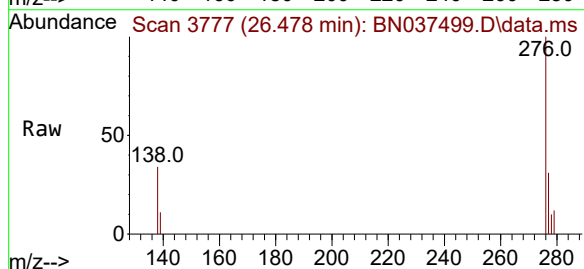
Tgt Ion:276 Resp: 1995

Ion Ratio Lower Upper

276 100

277 30.7 20.9 31.3

138 33.7 22.6 33.8



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

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

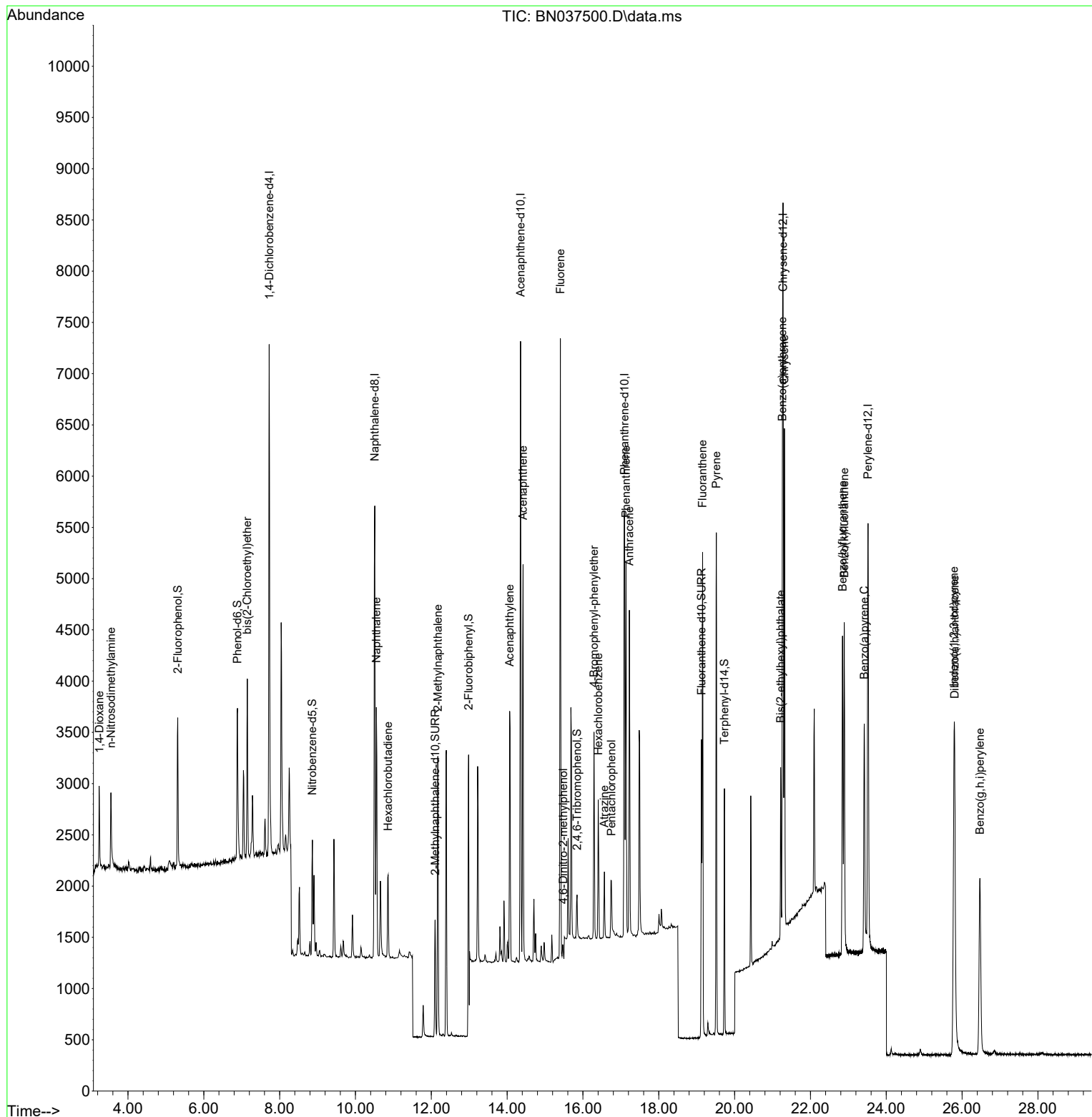
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2351	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6017	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3325	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6414	0.400	ng	0.00
29) Chrysene-d12	21.277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

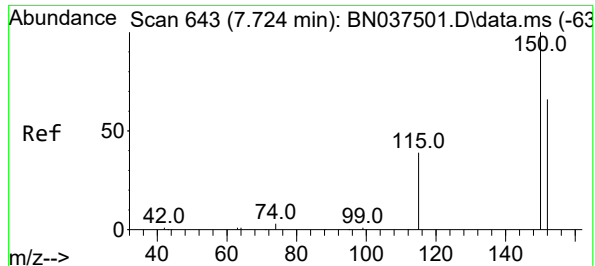
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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

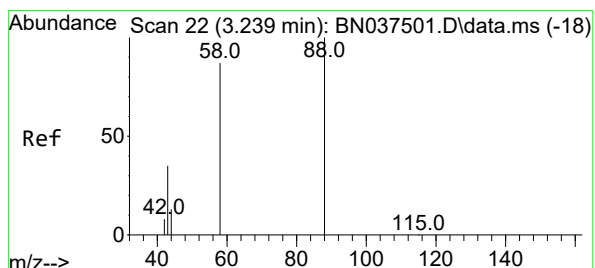
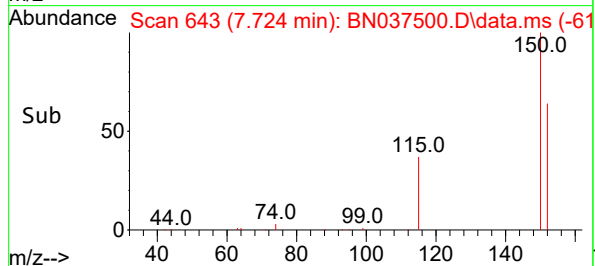
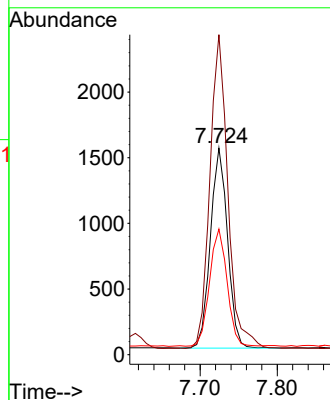
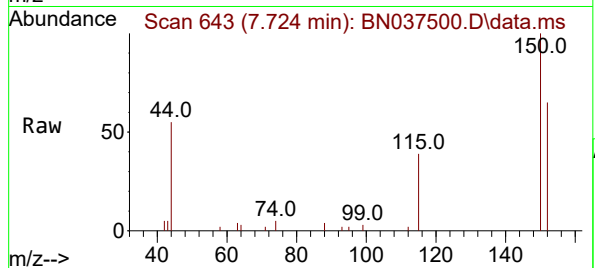




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

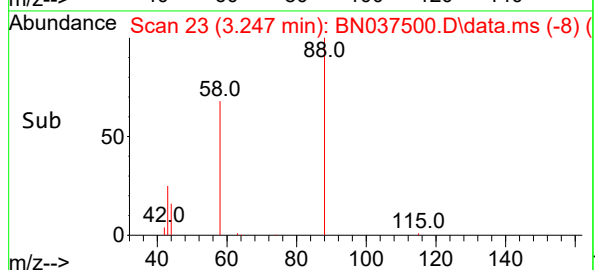
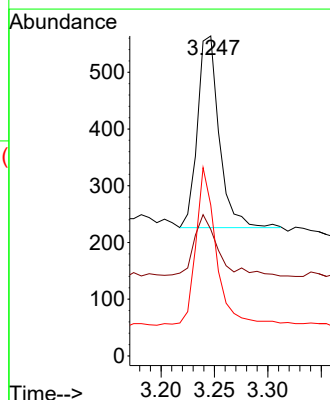
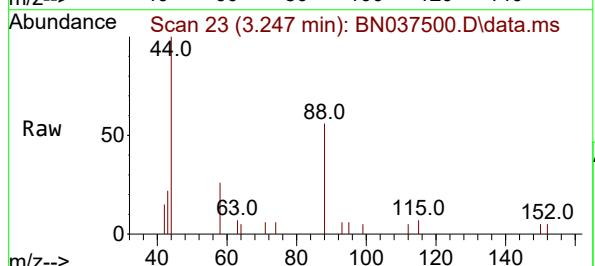
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

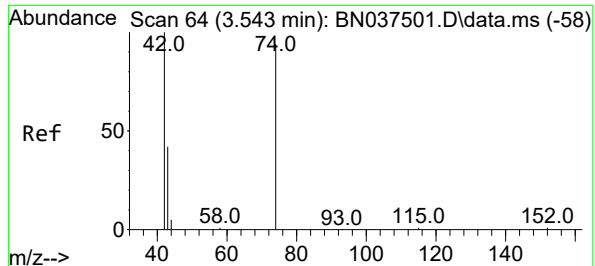
Tgt Ion:152 Resp: 2351
Ion Ratio Lower Upper
152 100
150 154.9 119.8 179.8
115 60.8 49.1 73.7



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

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

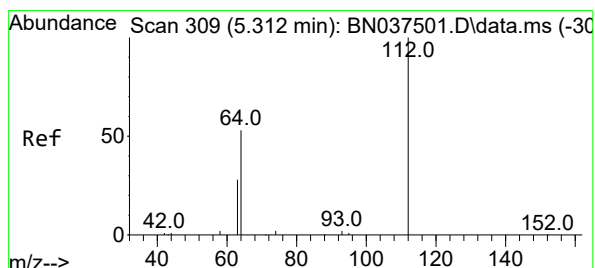
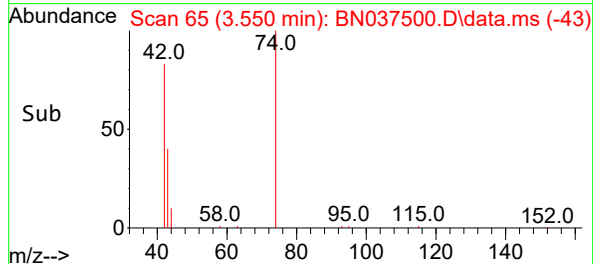
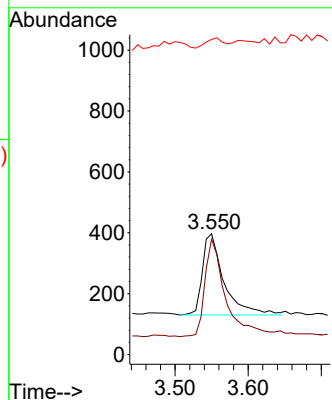
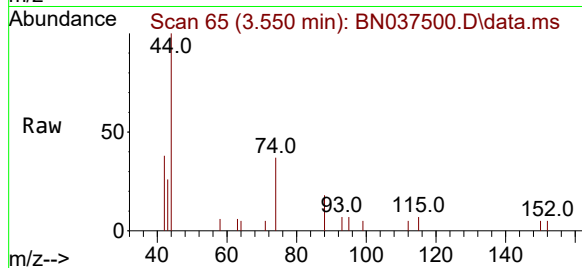




#3
n-Nitrosodimethylamine
Concen: 0.193 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

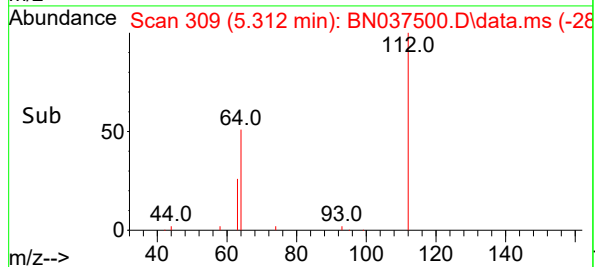
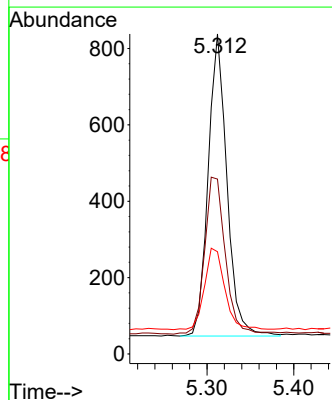
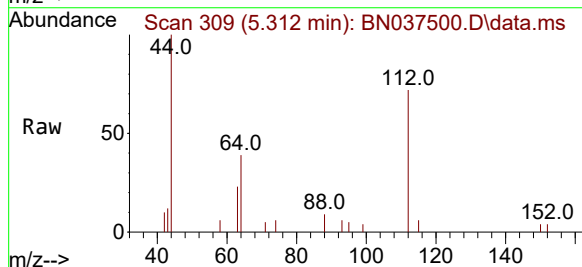
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

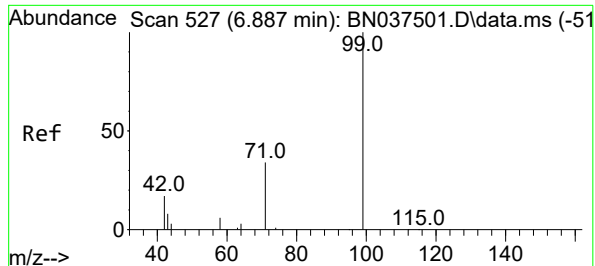
Tgt Ion: 42 Resp: 548
Ion Ratio Lower Upper
42 100
74 119.2 91.8 137.6
44 9.9 15.0 22.6#



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

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

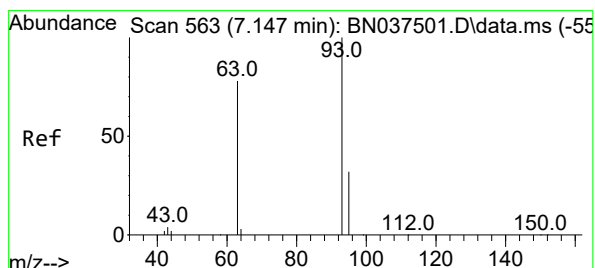
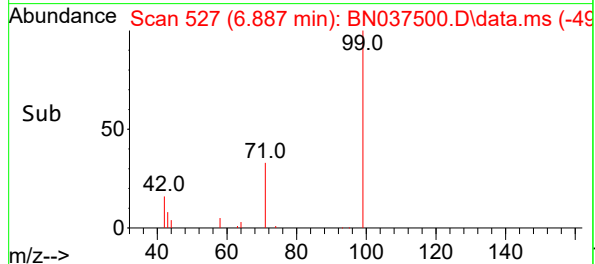
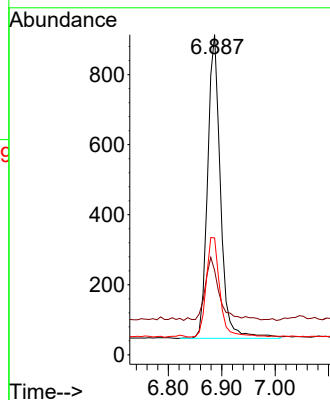
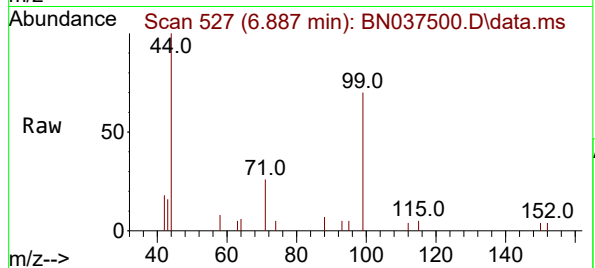




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

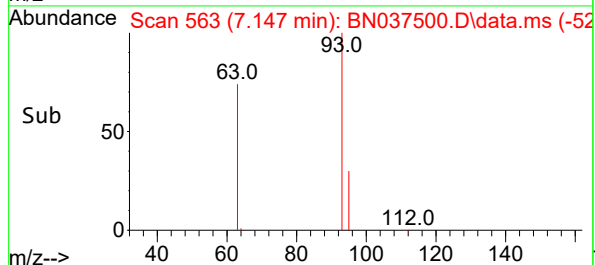
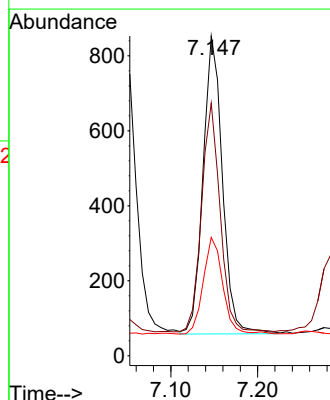
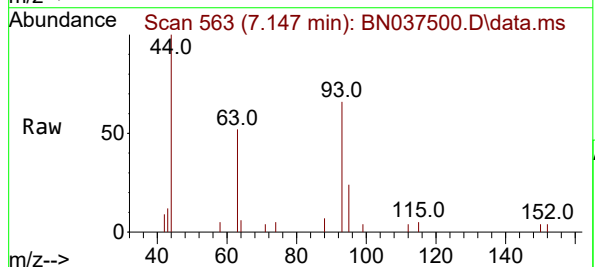
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

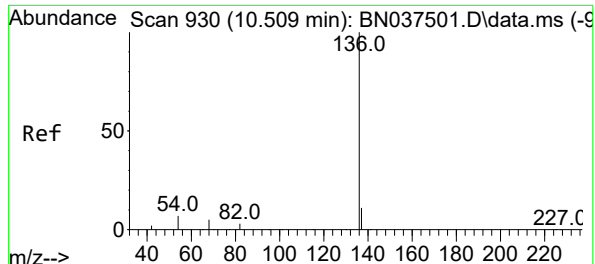
Tgt Ion: 99 Resp: 1455
Ion Ratio Lower Upper
99 100
42 22.1 17.1 25.7
71 34.8 27.8 41.8



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

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

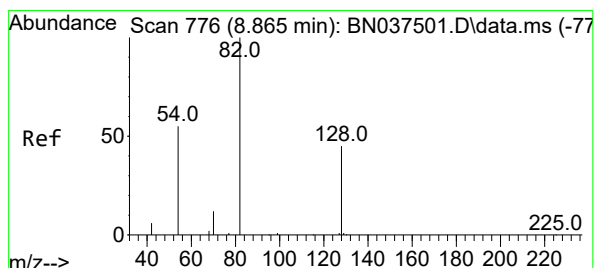
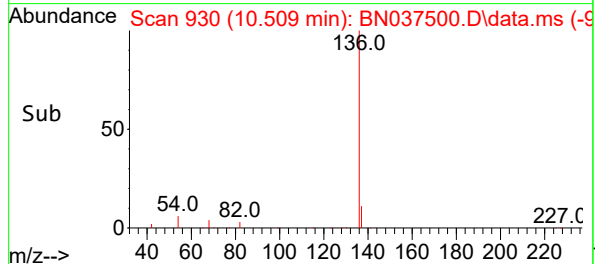
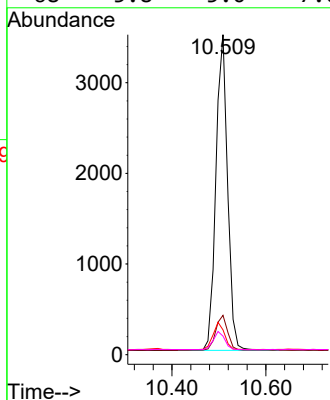
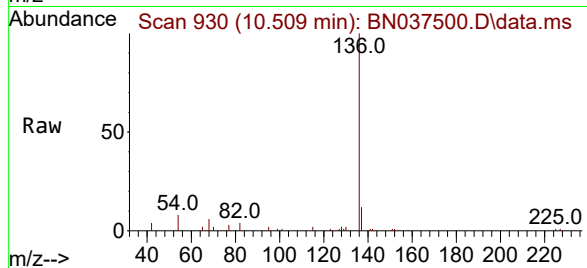




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

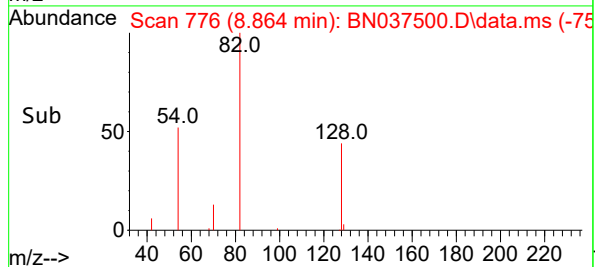
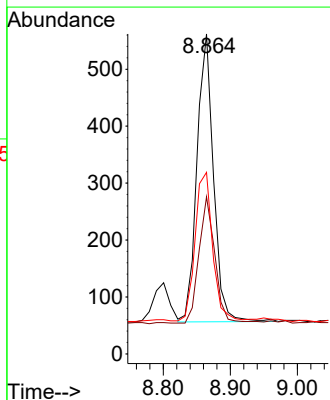
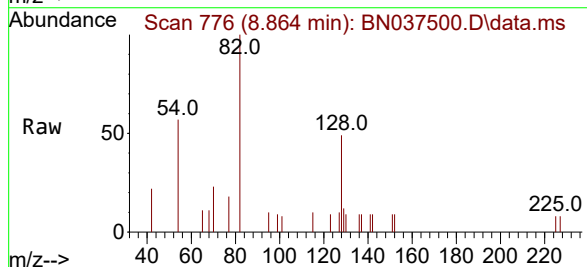
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

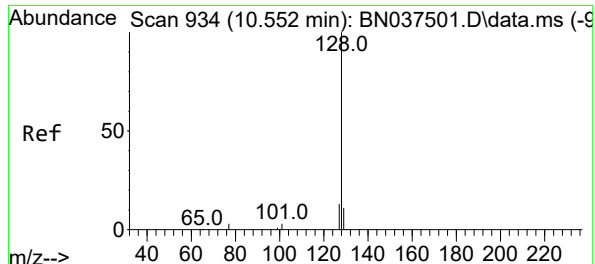
Tgt Ion:	136	Resp:	6017
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	7.7	6.6	9.8
68	5.8	5.0	7.6



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

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





#9

Naphthalene

Concen: 0.198 ng

RT: 10.551 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

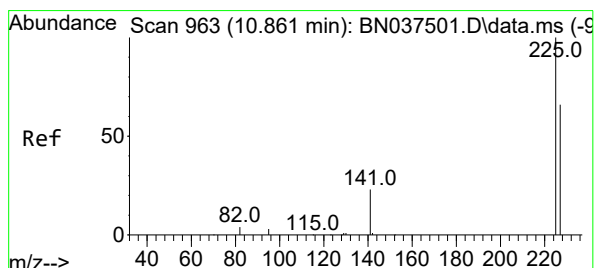
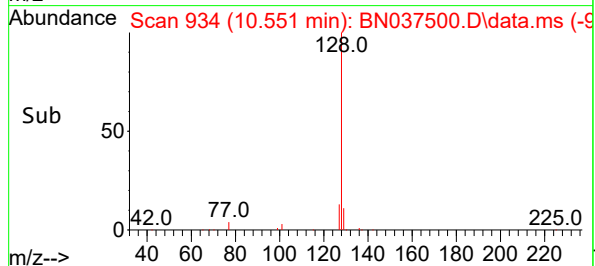
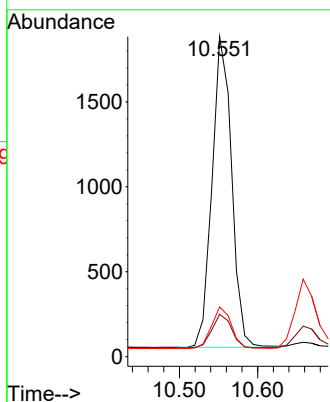
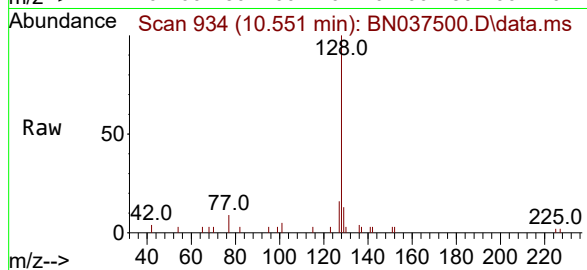
Tgt Ion:128 Resp: 3170

Ion Ratio Lower Upper

128 100

129 13.2 9.7 14.5

127 15.6 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.201 ng

RT: 10.861 min Scan# 963

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

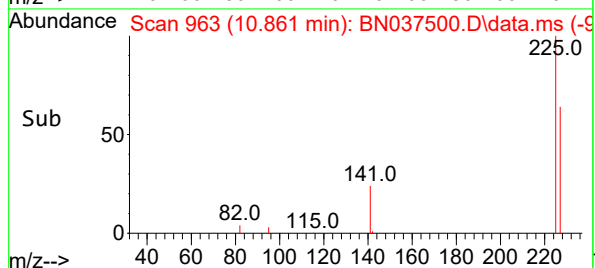
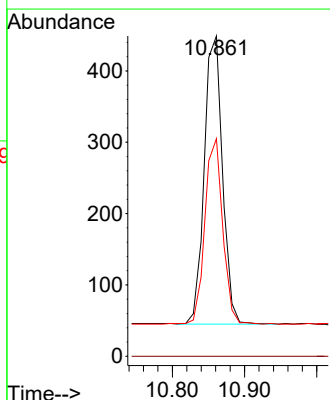
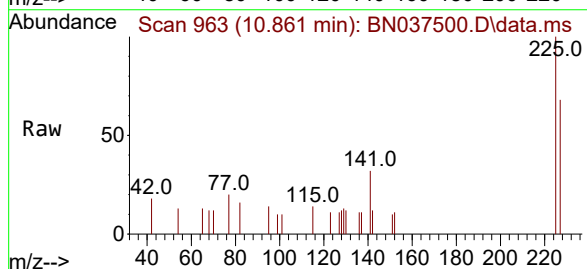
Tgt Ion:225 Resp: 712

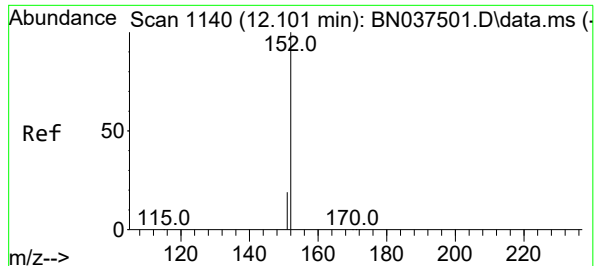
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.9 51.0 76.4

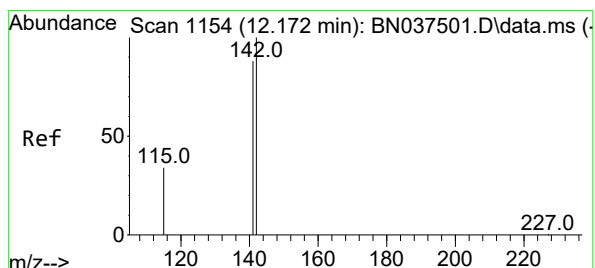
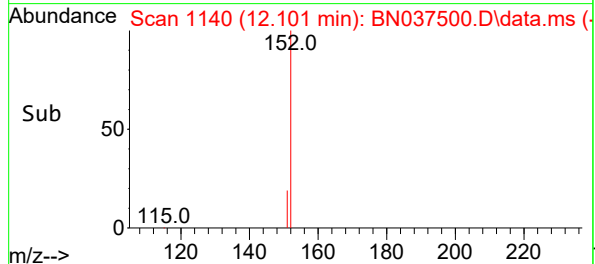
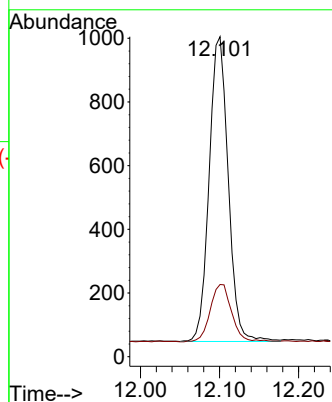
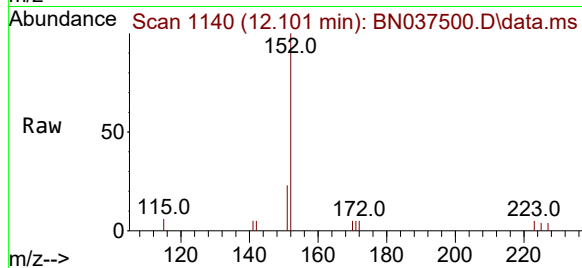




#11
2-Methylnaphthalene-d10
Concen: 0.186 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

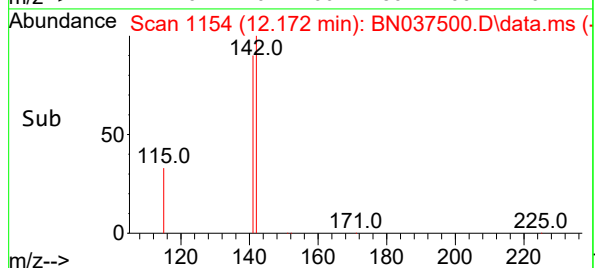
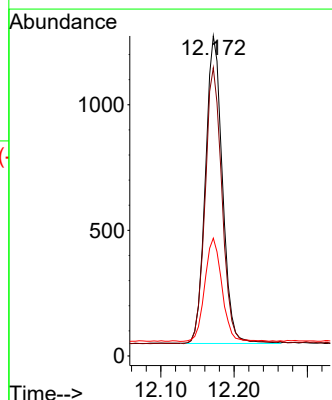
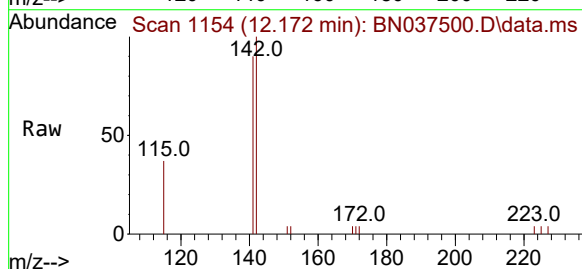
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

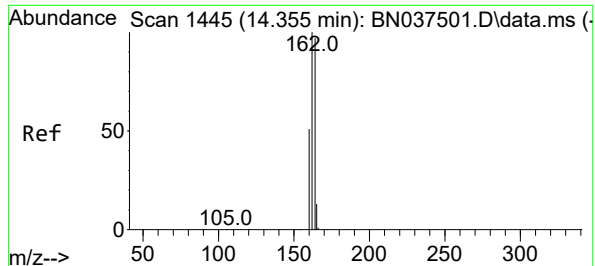
Tgt Ion:152 Resp: 1606
Ion Ratio Lower Upper
152 100
151 21.2 16.8 25.2



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

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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.355 min Scan# 1445

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

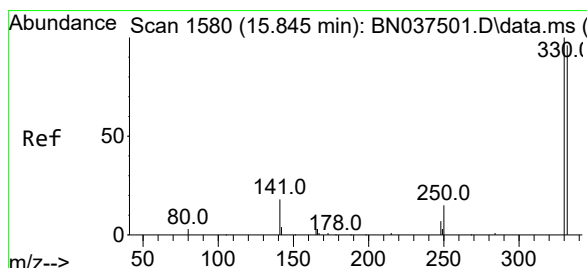
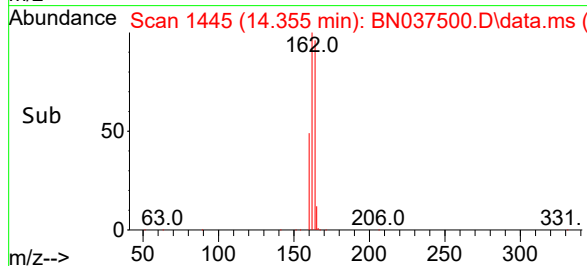
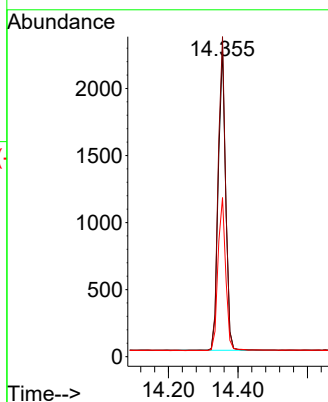
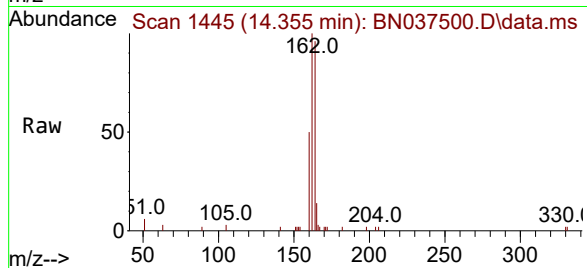
Tgt Ion:164 Resp: 3325

Ion Ratio Lower Upper

164 100

162 103.8 82.0 123.0

160 51.6 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 0.176 ng

RT: 15.845 min Scan# 1580

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

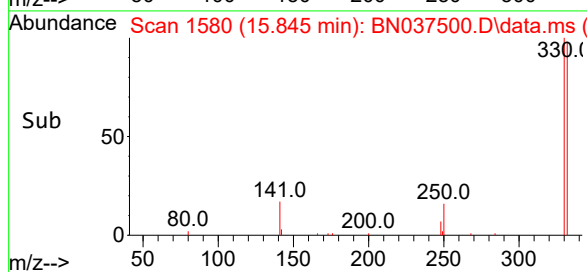
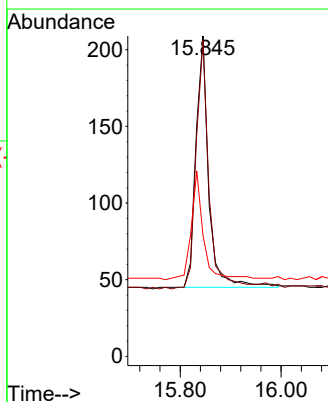
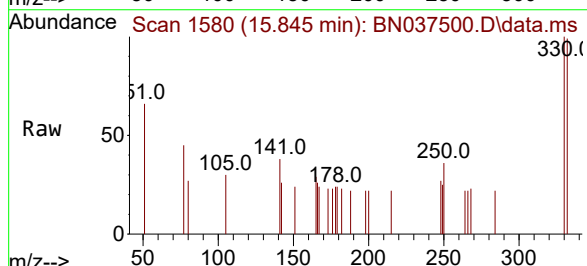
Tgt Ion:330 Resp: 288

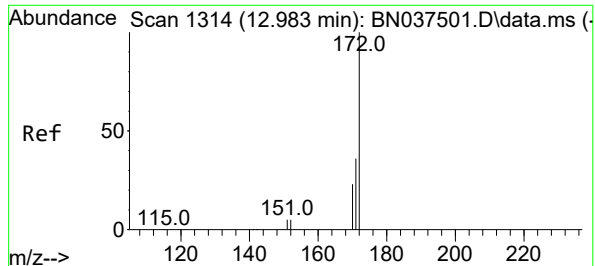
Ion Ratio Lower Upper

330 100

332 99.7 76.1 114.1

141 41.3 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.173 ng

RT: 12.983 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

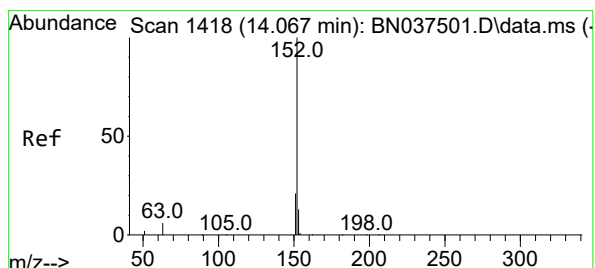
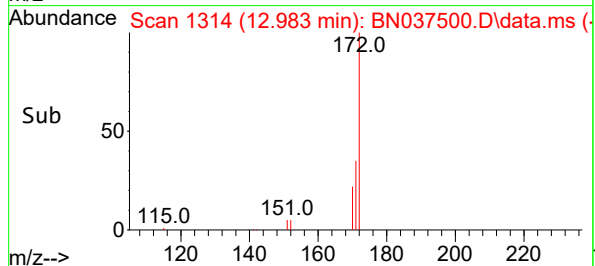
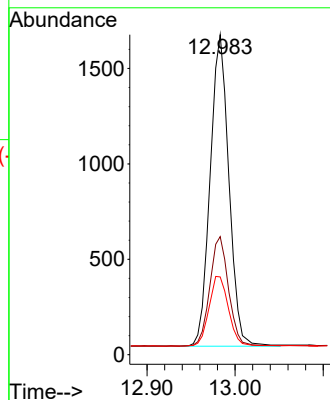
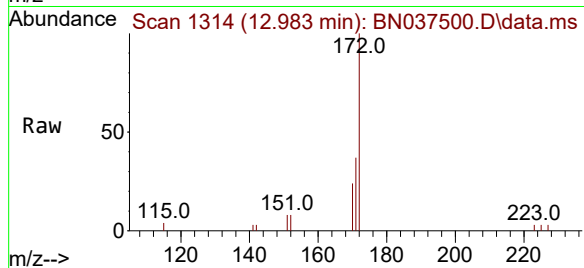
Tgt Ion:172 Resp: 2983

Ion Ratio Lower Upper

172 100

171 36.9 29.4 44.2

170 24.3 19.4 29.0



#16

Acenaphthylene

Concen: 0.191 ng

RT: 14.067 min Scan# 1418

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

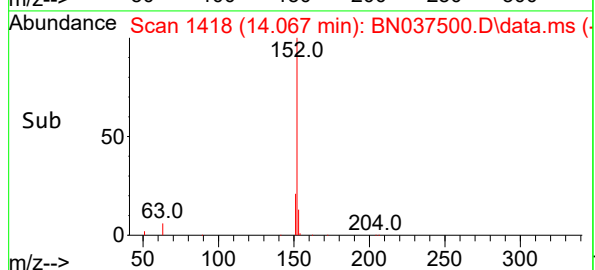
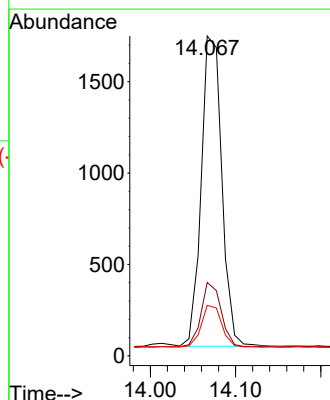
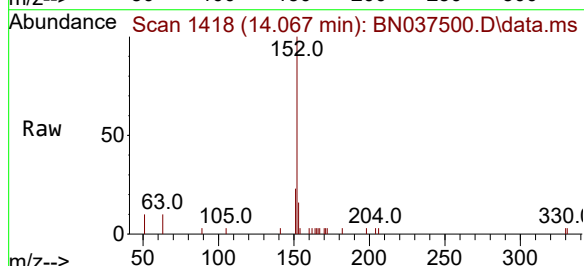
Tgt Ion:152 Resp: 2840

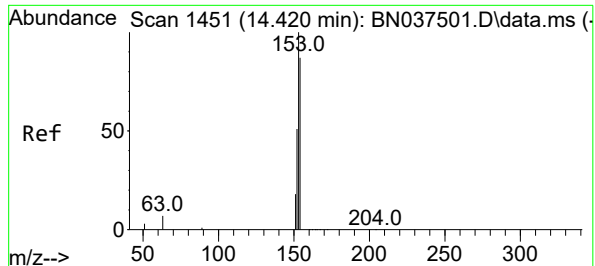
Ion Ratio Lower Upper

152 100

151 21.3 15.9 23.9

153 13.2 10.7 16.1





#17

Acenaphthene

Concen: 0.190 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

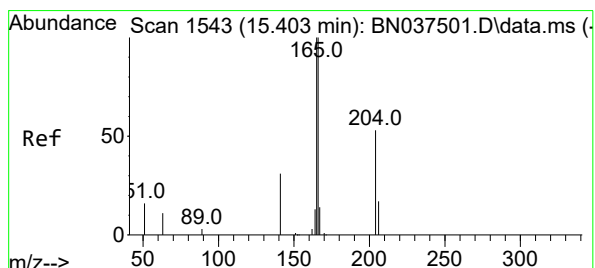
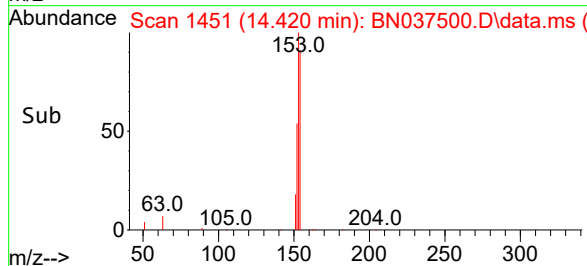
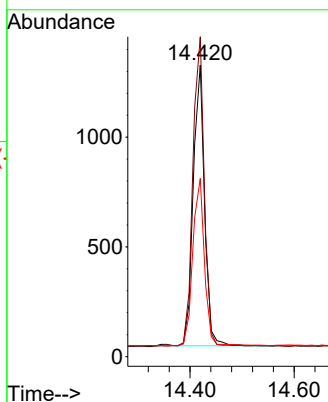
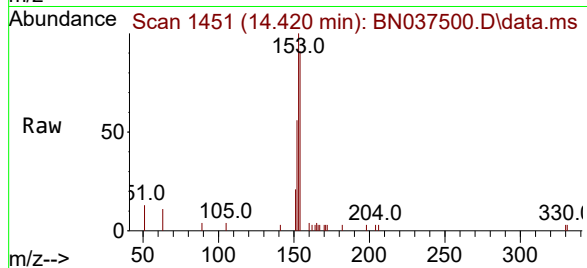
Tgt Ion:154 Resp: 1928

Ion Ratio Lower Upper

154 100

153 111.4 89.2 133.8

152 61.5 48.0 72.0



#18

Fluorene

Concen: 0.190 ng

RT: 15.403 min Scan# 1543

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

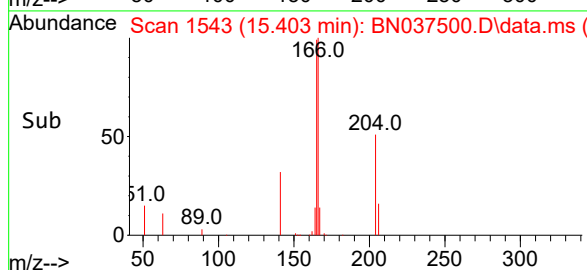
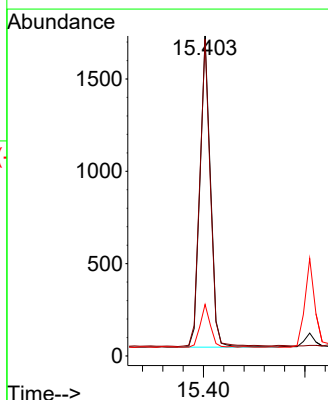
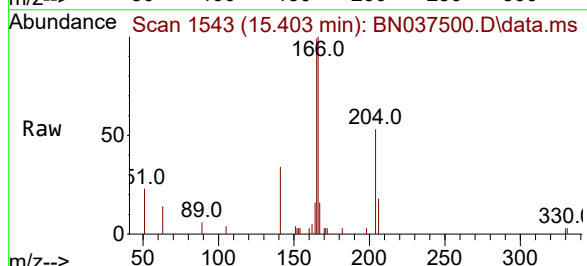
Tgt Ion:166 Resp: 2474

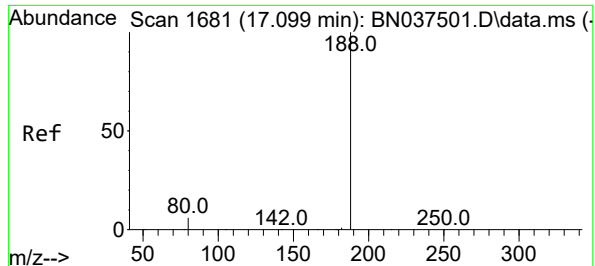
Ion Ratio Lower Upper

166 100

165 97.8 78.1 117.1

167 13.0 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

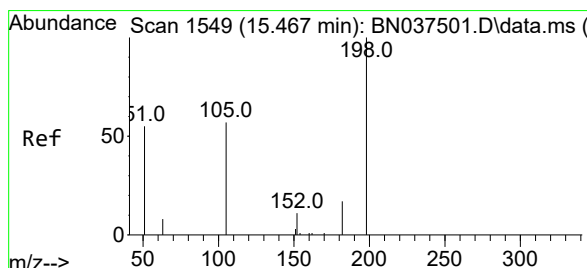
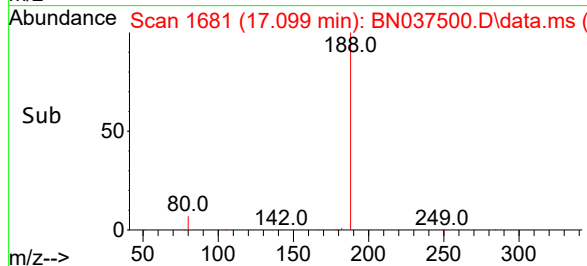
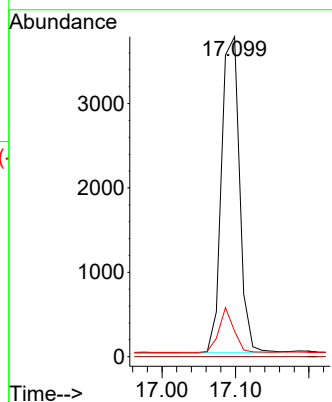
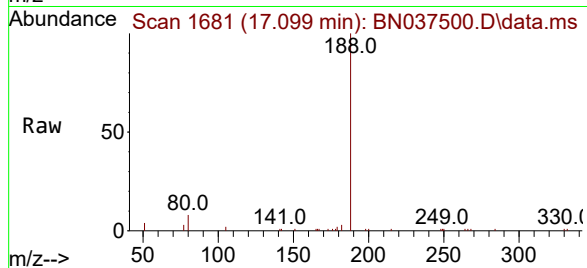
Tgt Ion:188 Resp: 6414

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.255 ng

RT: 15.478 min Scan# 1550

Delta R.T. 0.011 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

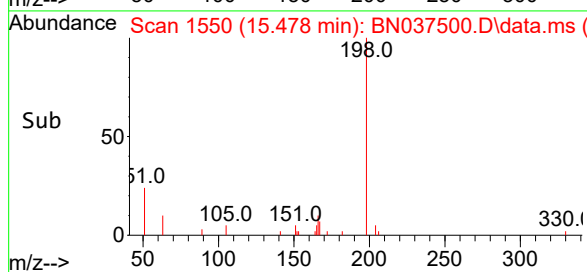
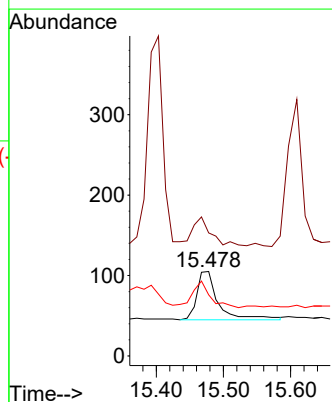
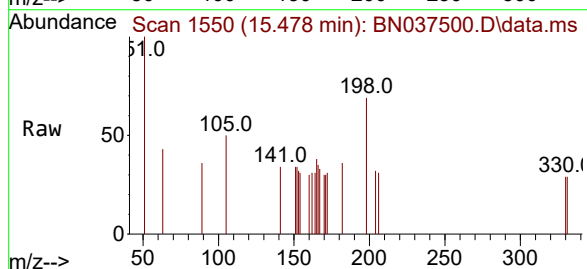
Tgt Ion:198 Resp: 140

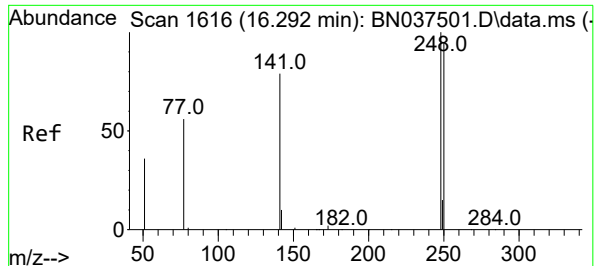
Ion Ratio Lower Upper

198 100

51 145.7 88.5 132.7#

105 72.4 61.2 91.8

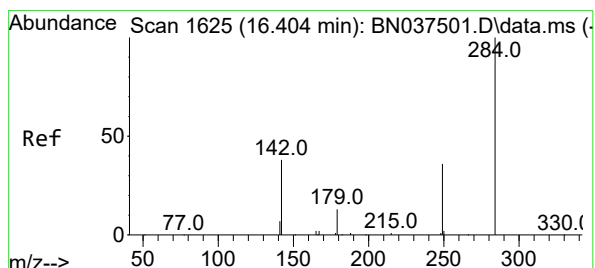
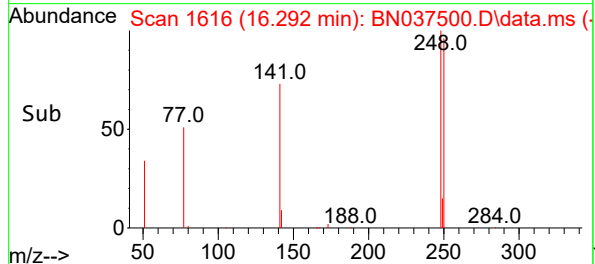
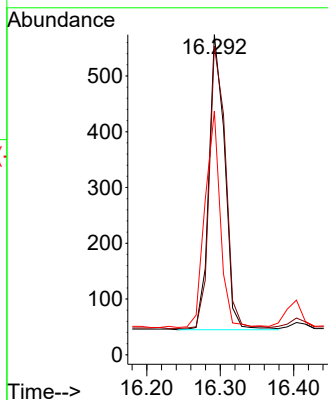
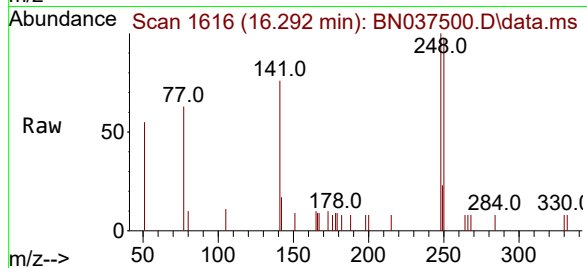




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

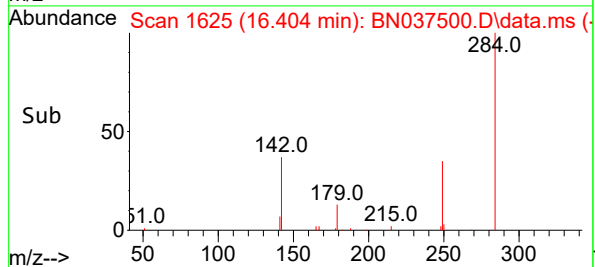
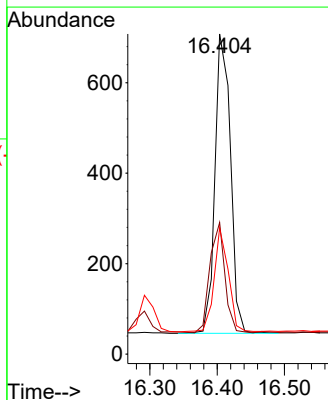
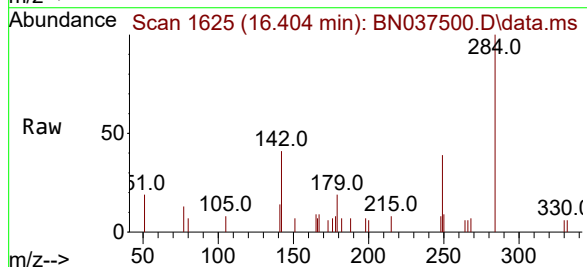
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

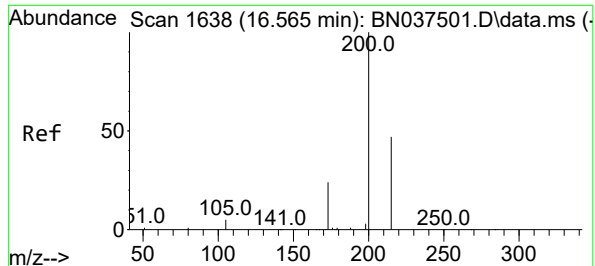
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.5	76.2	114.2
141	76.1	63.9	95.9



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

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





#23

Atrazine

Concen: 0.180 ng

RT: 16.565 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

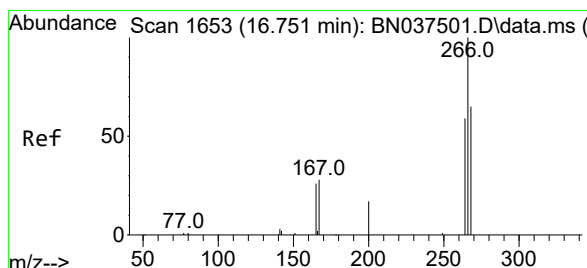
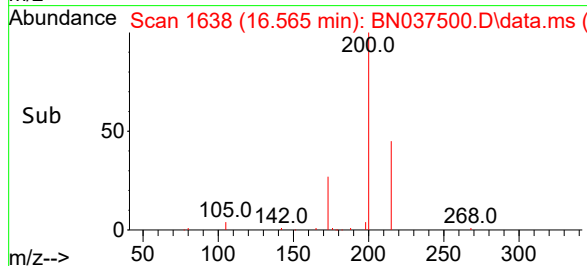
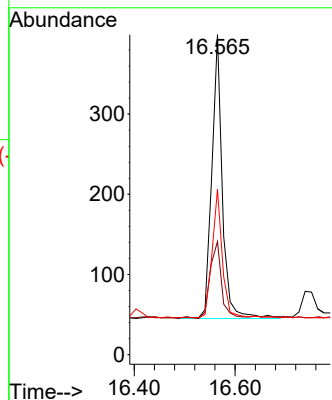
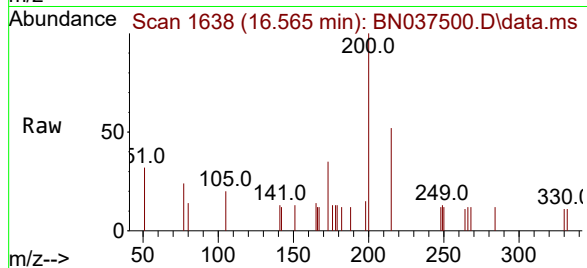
Tgt Ion:200 Resp: 515

Ion Ratio Lower Upper

200 100

173 35.3 23.2 34.8#

215 51.6 40.2 60.4



#24

Pentachlorophenol

Concen: 0.176 ng

RT: 16.751 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

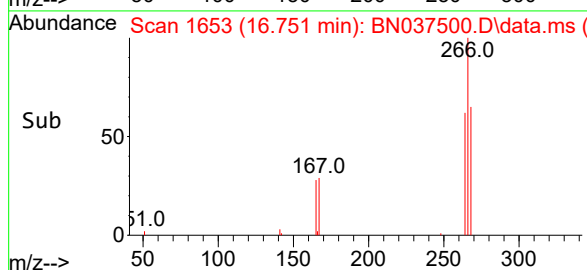
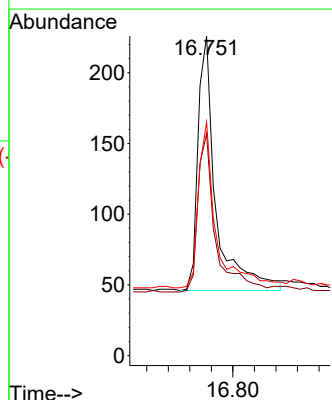
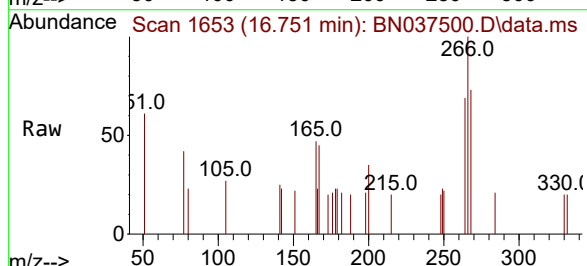
Tgt Ion:266 Resp: 419

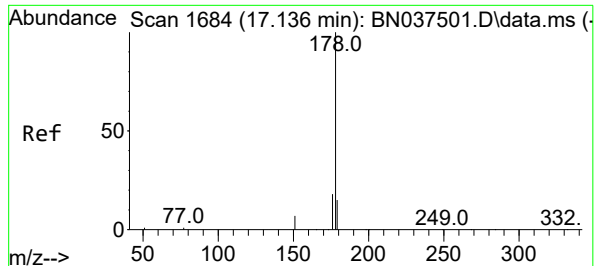
Ion Ratio Lower Upper

266 100

264 60.9 49.3 73.9

268 64.9 51.6 77.4

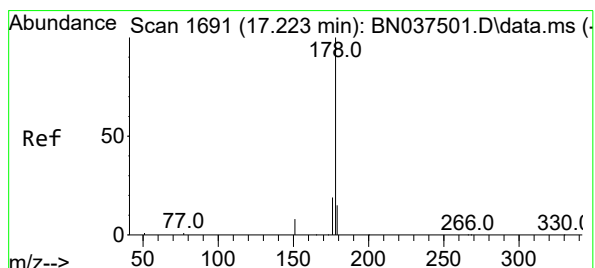
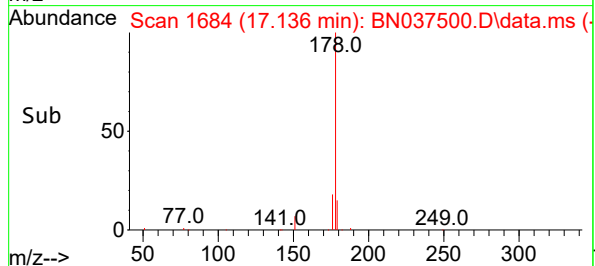
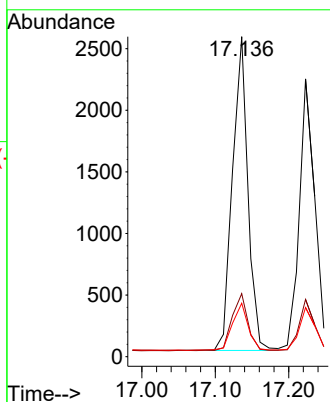
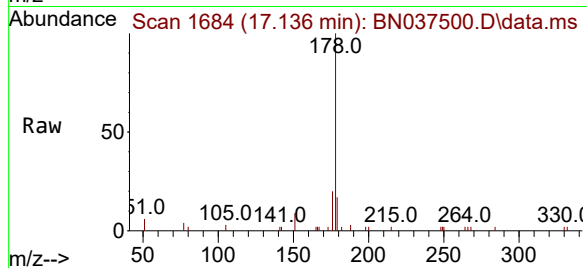




#25
Phenanthrene
Concen: 0.194 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

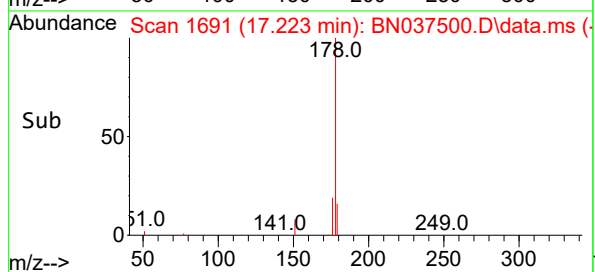
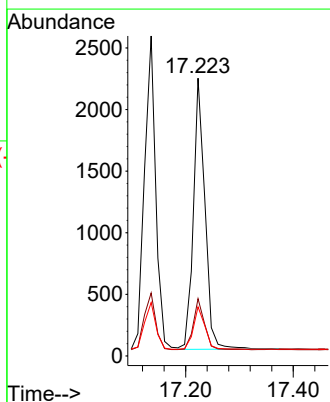
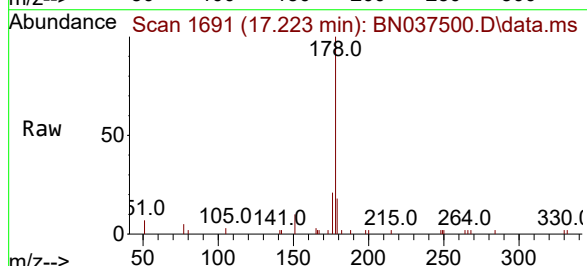
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

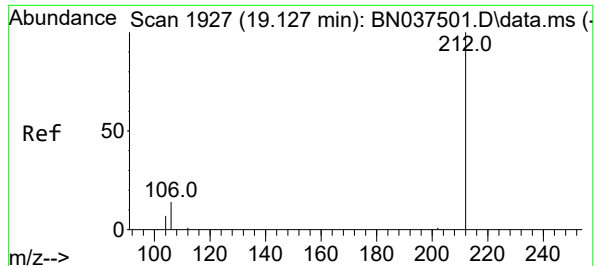
Tgt Ion:178 Resp: 3730
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 15.4 12.2 18.2



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

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





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

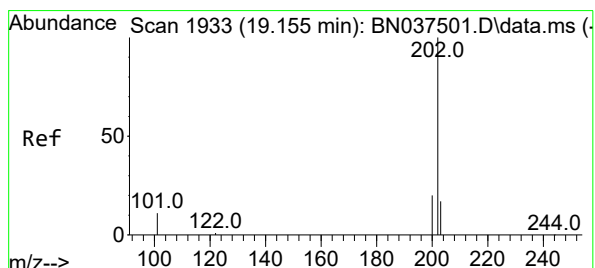
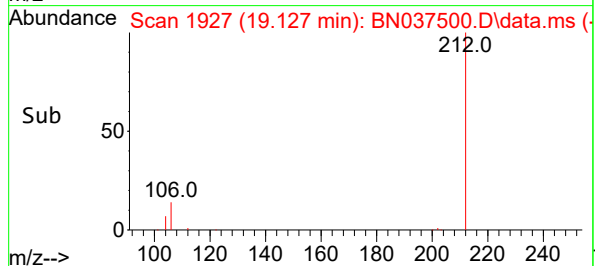
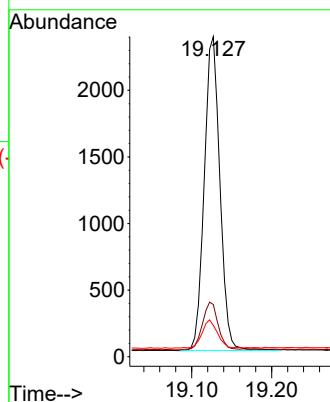
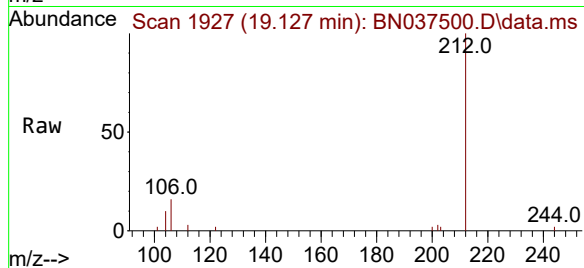
Tgt Ion:212 Resp: 3202

Ion Ratio Lower Upper

212 100

106 15.3 12.2 18.4

104 8.8 6.7 10.1



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

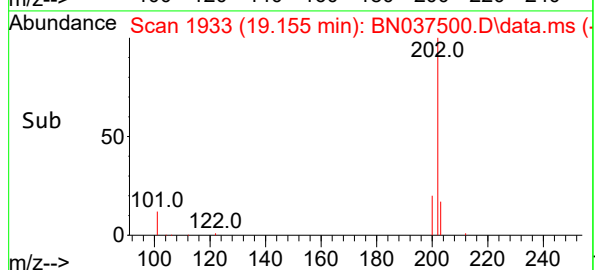
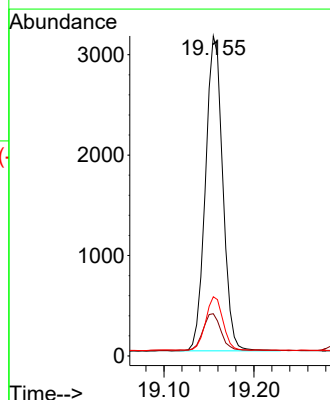
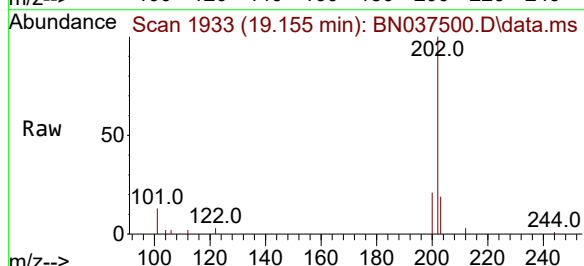
Tgt Ion:202 Resp: 4200

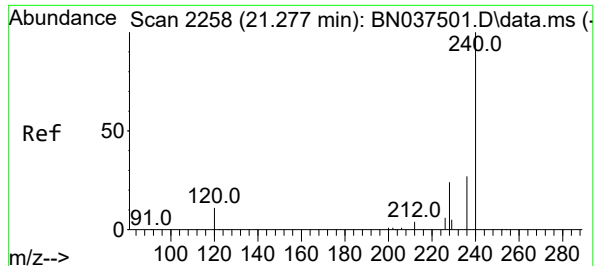
Ion Ratio Lower Upper

202 100

101 12.1 9.8 14.6

203 16.9 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

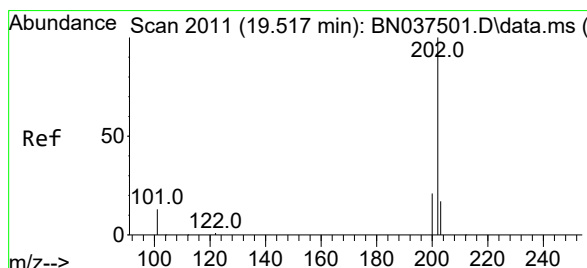
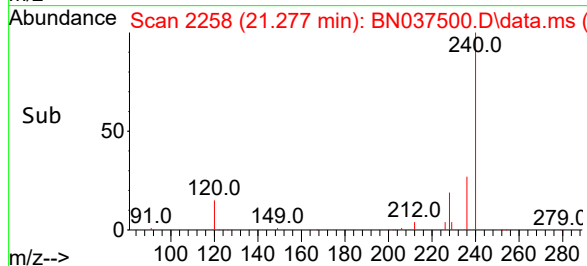
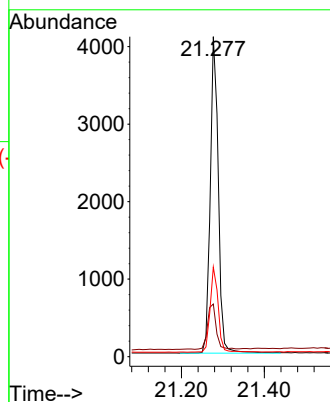
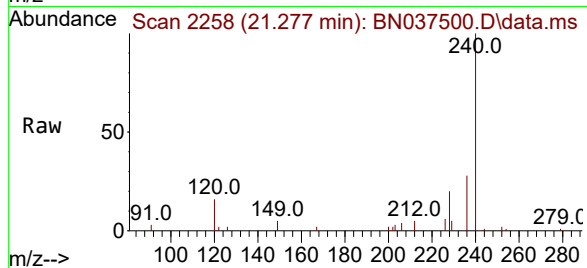
Tgt Ion:240 Resp: 5490

Ion Ratio Lower Upper

240 100

120 16.5 10.7 16.1#

236 28.0 22.6 33.8



#30

Pyrene

Concen: 0.194 ng

RT: 19.517 min Scan# 2011

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

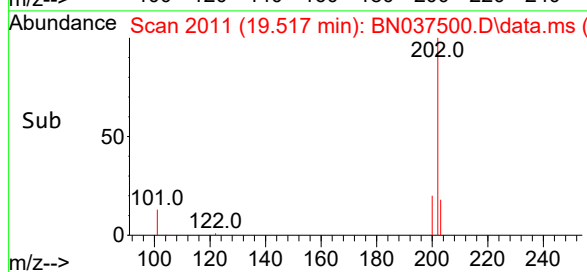
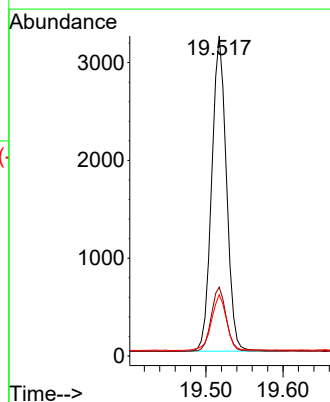
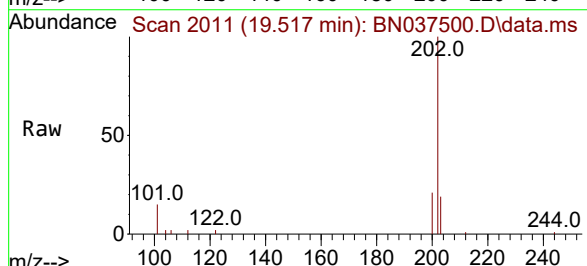
Tgt Ion:202 Resp: 4280

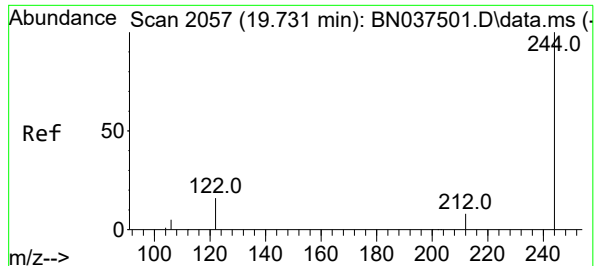
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 18.3 14.3 21.5

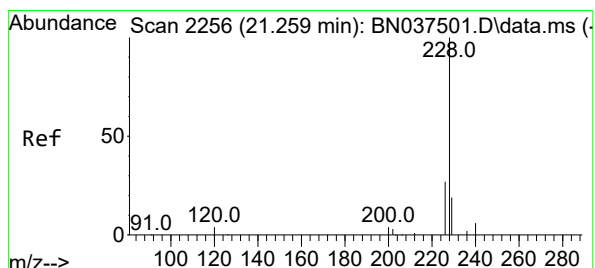
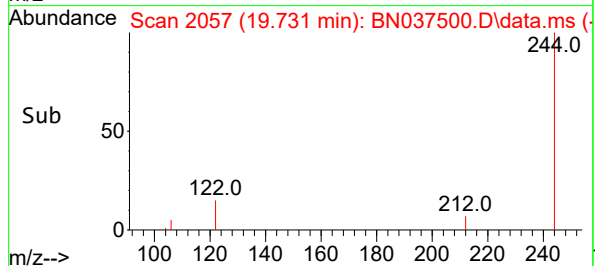
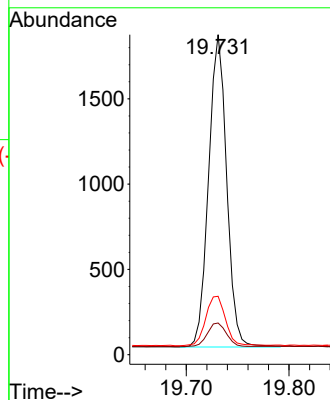
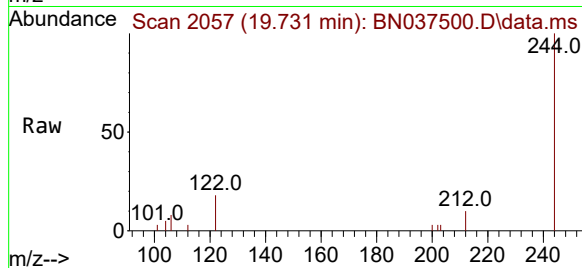




#31
Terphenyl-d14
Concen: 0.190 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037500.D
Acq: 15 Jul 2025 13:12

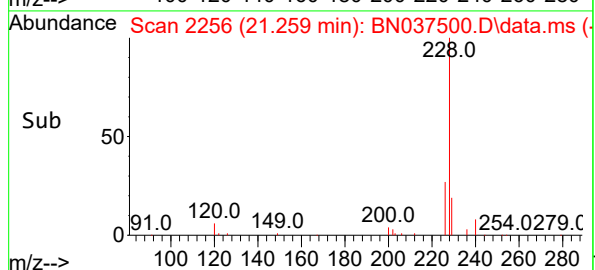
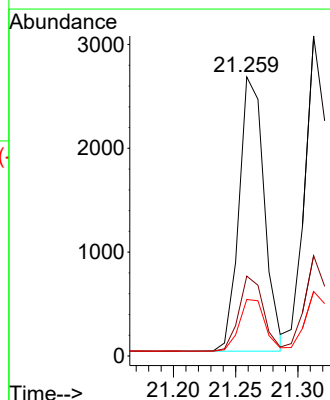
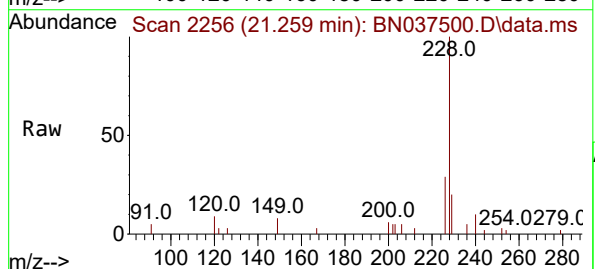
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

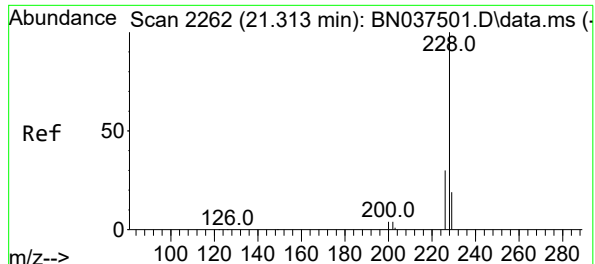
Tgt Ion:244 Resp: 2238
Ion Ratio Lower Upper
244 100
212 9.9 7.4 11.2
122 18.3 13.6 20.4



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

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





#33

Chrysene

Concen: 0.200 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

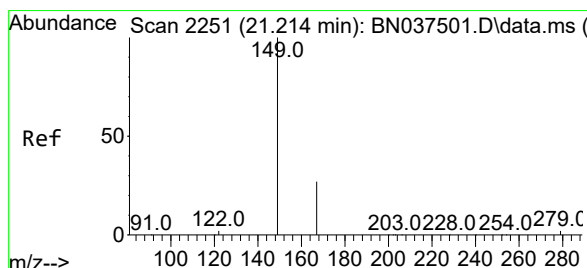
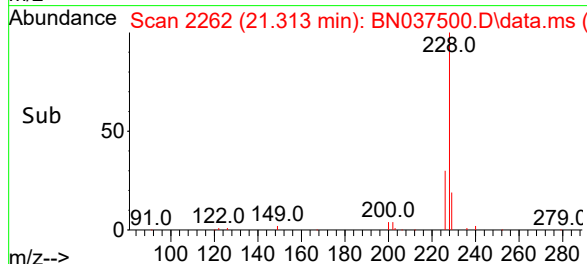
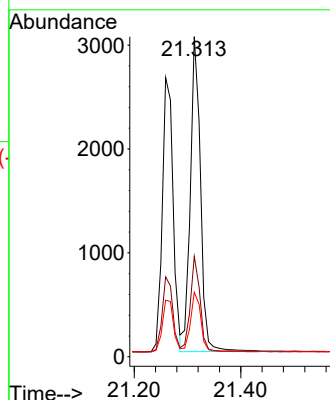
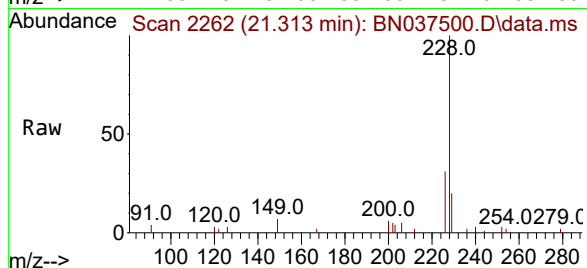
Tgt Ion:228 Resp: 4010

Ion Ratio Lower Upper

228 100

226 31.3 24.2 36.4

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.191 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

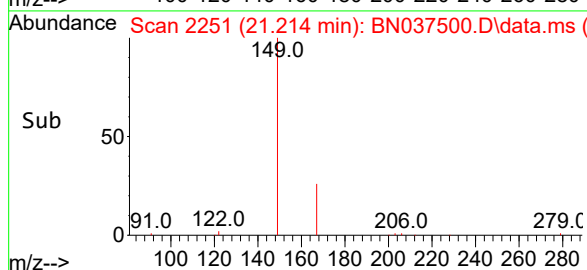
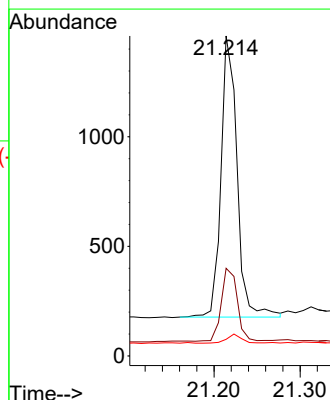
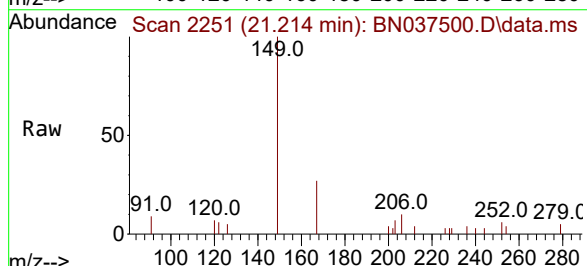
Tgt Ion:149 Resp: 1656

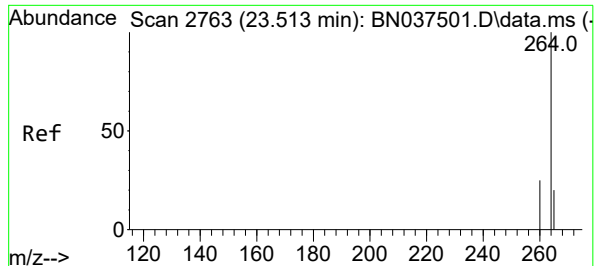
Ion Ratio Lower Upper

149 100

167 25.8 21.8 32.8

279 3.0 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.519 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037500.D

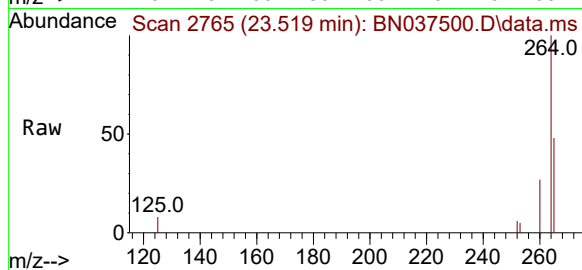
Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



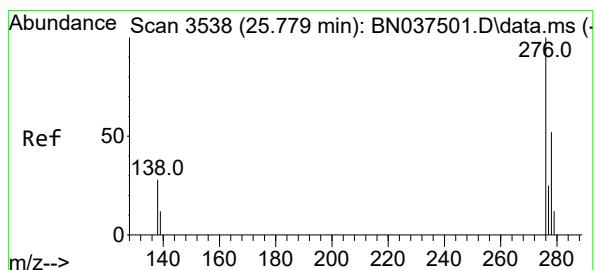
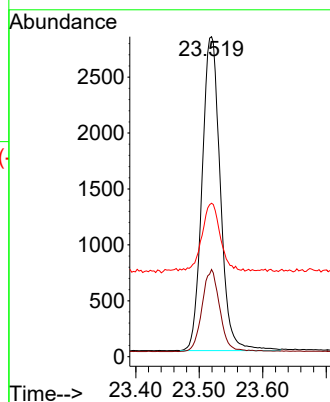
Tgt Ion:264 Resp: 5600

Ion Ratio Lower Upper

264 100

260 27.3 21.2 31.8

265 47.9 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.183 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.009 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

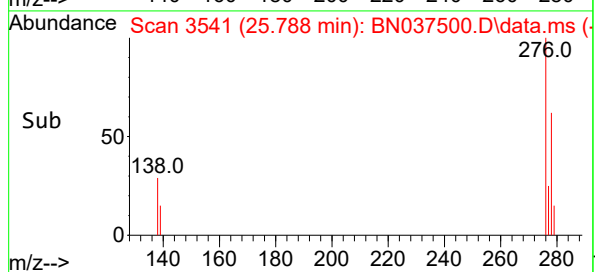
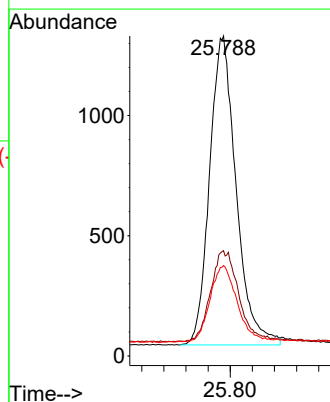
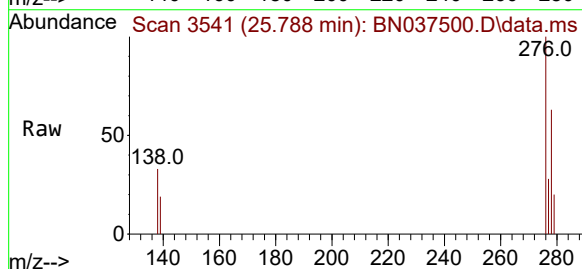
Tgt Ion:276 Resp: 4278

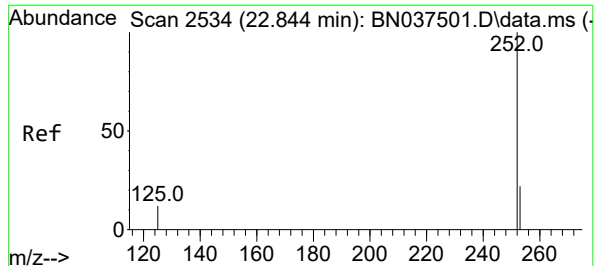
Ion Ratio Lower Upper

276 100

138 31.1 24.0 36.0

277 24.9 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.181 ng

RT: 22.847 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

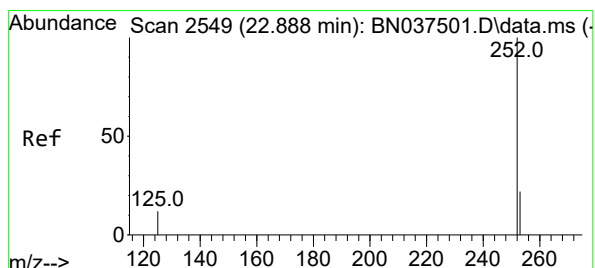
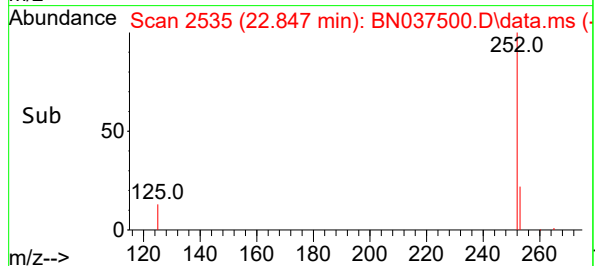
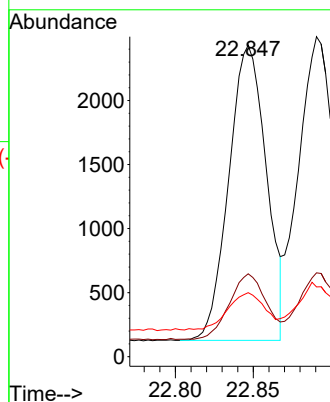
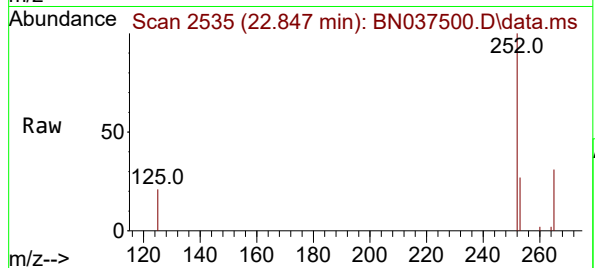
Tgt Ion:252 Resp: 3857

Ion Ratio Lower Upper

252 100

253 26.6 19.5 29.3

125 20.6 13.0 19.6#



#38

Benzo(k)fluoranthene

Concen: 0.181 ng

RT: 22.891 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

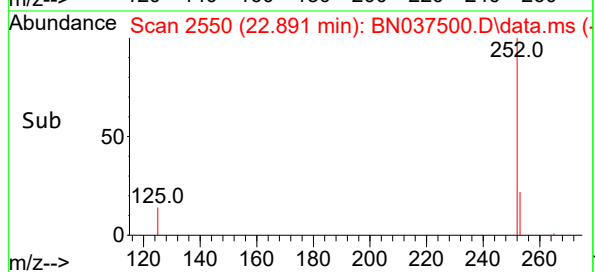
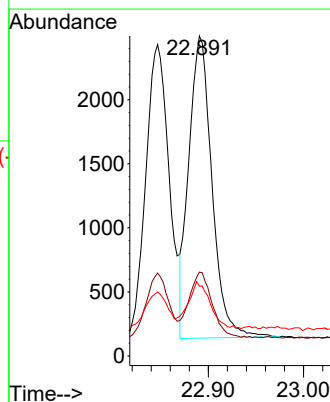
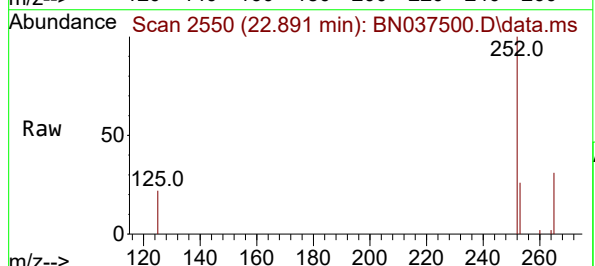
Tgt Ion:252 Resp: 3977

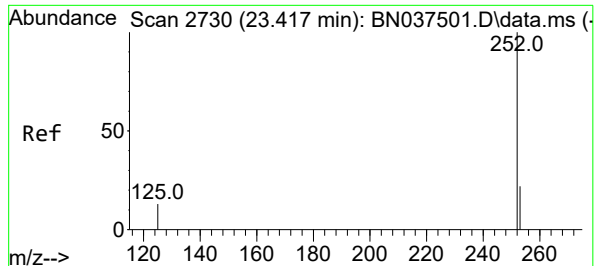
Ion Ratio Lower Upper

252 100

253 26.2 19.5 29.3

125 21.8 13.1 19.7#





#39

Benzo(a)pyrene

Concen: 0.182 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

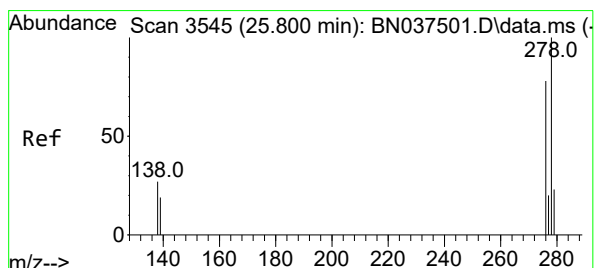
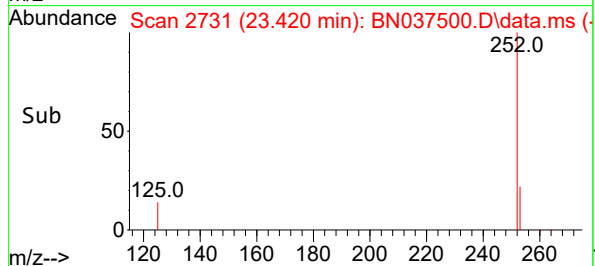
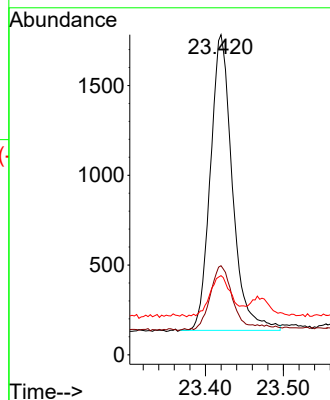
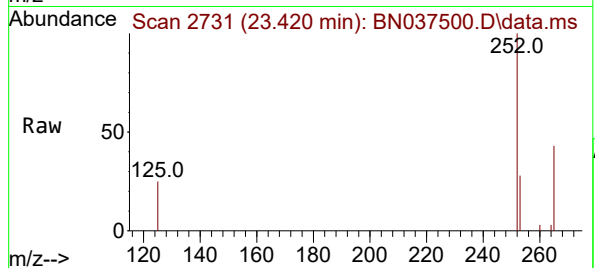
Tgt Ion:252 Resp: 3225

Ion Ratio Lower Upper

252 100

253 27.8 19.9 29.9

125 24.7 15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.181 ng

RT: 25.803 min Scan# 3546

Delta R.T. 0.003 min

Lab File: BN037500.D

Acq: 15 Jul 2025 13:12

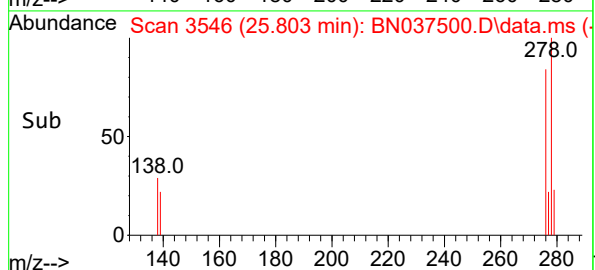
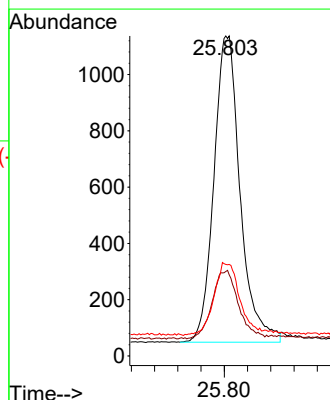
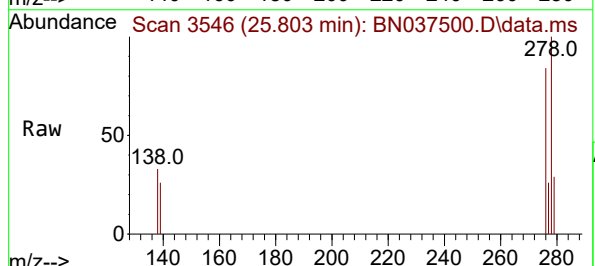
Tgt Ion:278 Resp: 3411

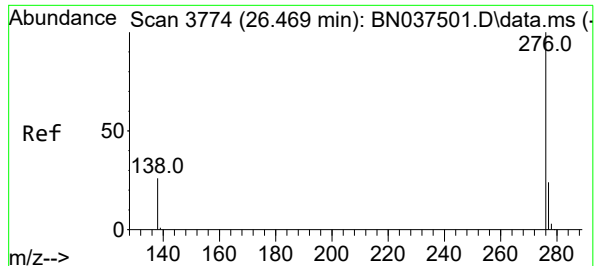
Ion Ratio Lower Upper

278 100

139 26.4 17.5 26.3#

279 28.6 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 26.472 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037500.D

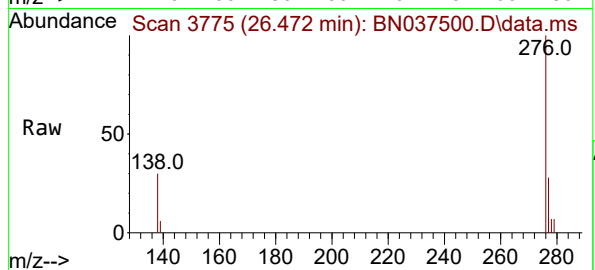
Acq: 15 Jul 2025 13:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



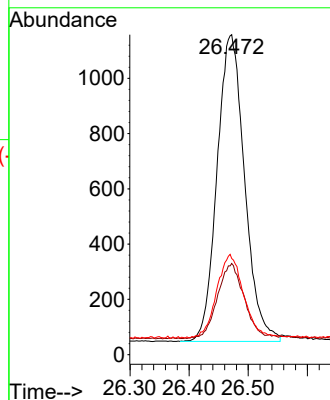
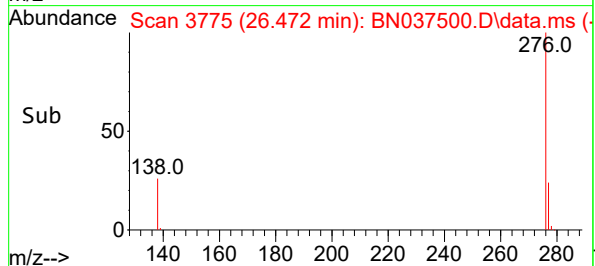
Tgt Ion:276 Resp: 3591

Ion Ratio Lower Upper

276 100

277 28.5 20.9 31.3

138 30.1 22.6 33.8



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

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

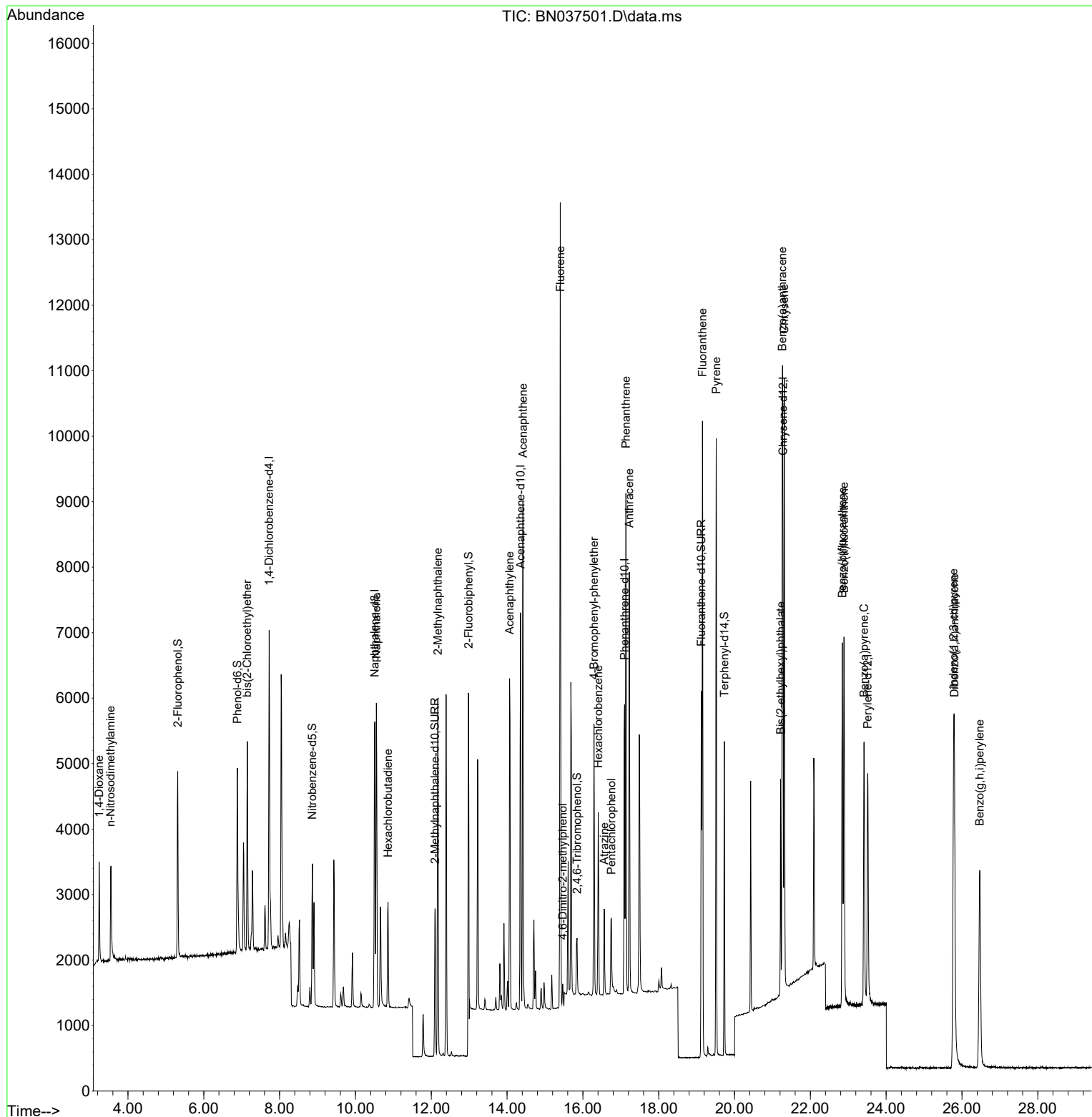
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2287	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5836	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3328	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6474	0.400	ng	0.00
29) Chrysene-d12	21.277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

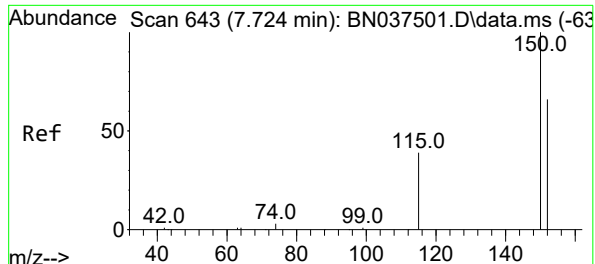
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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

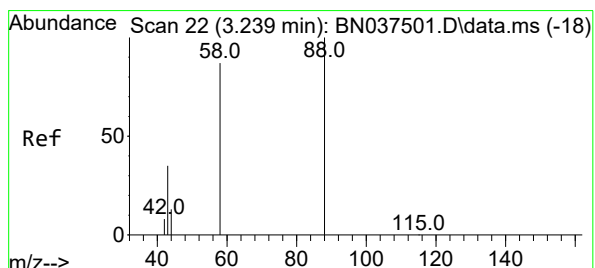
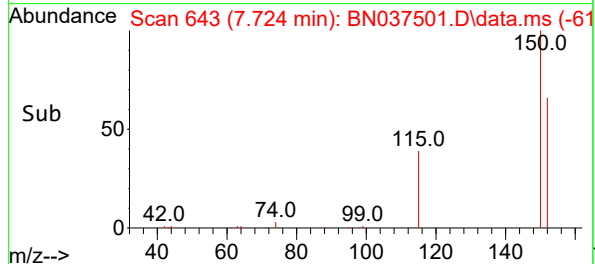
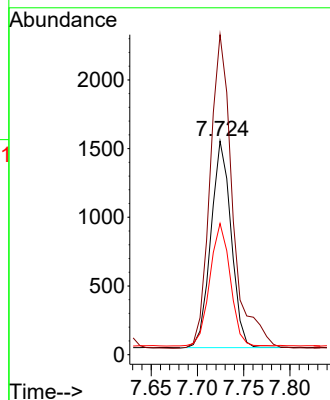
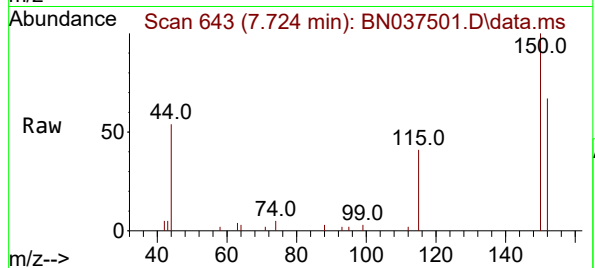




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

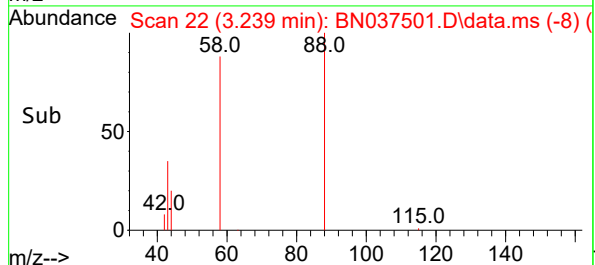
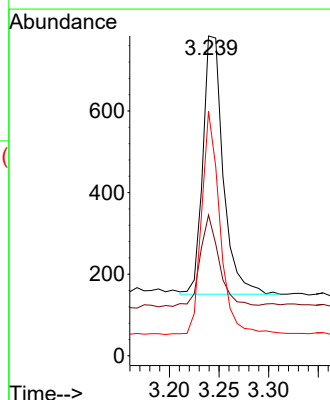
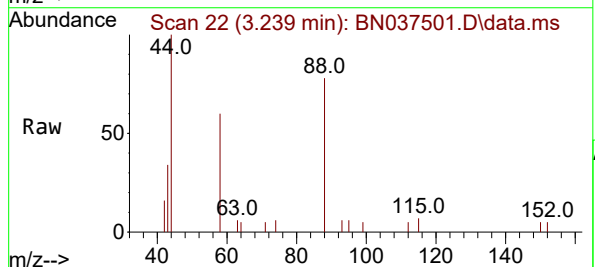
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

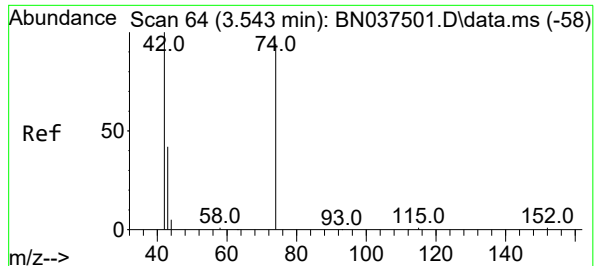
Tgt Ion:152 Resp: 2287
Ion Ratio Lower Upper
152 100
150 149.8 119.8 179.8
115 61.4 49.1 73.7



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

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

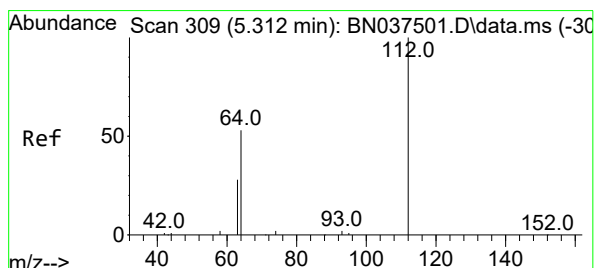
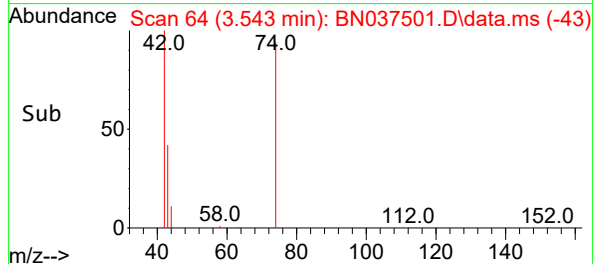
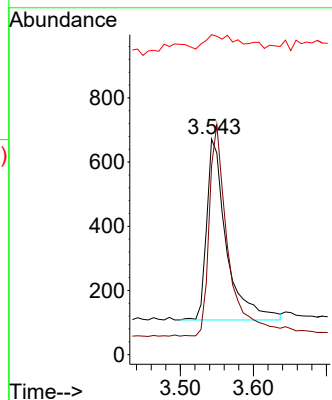
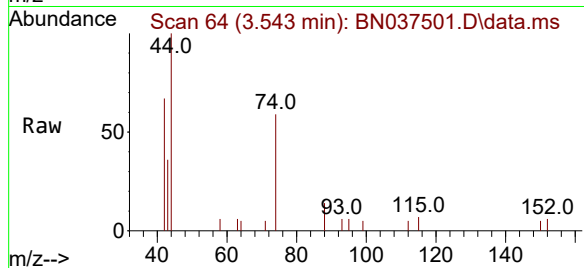




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

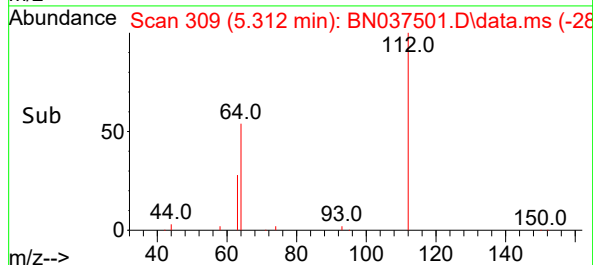
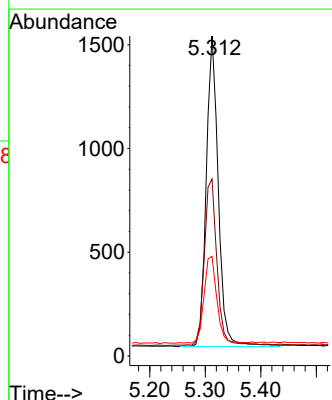
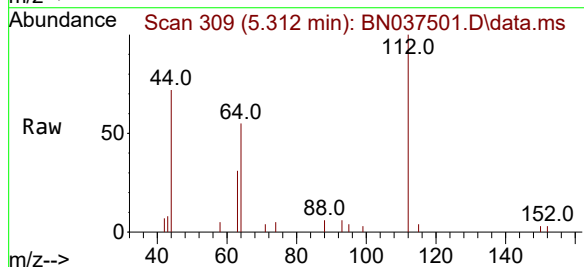
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

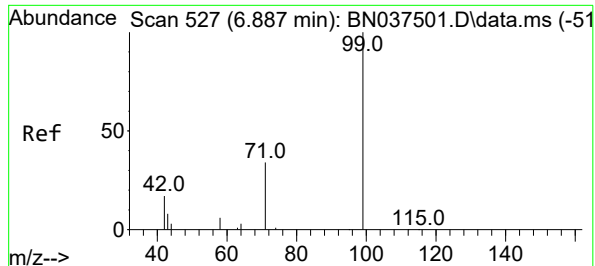
Tgt Ion: 42 Resp: 1061
Ion Ratio Lower Upper
42 100
74 113.4 91.8 137.6
44 18.8 15.0 22.6



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

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

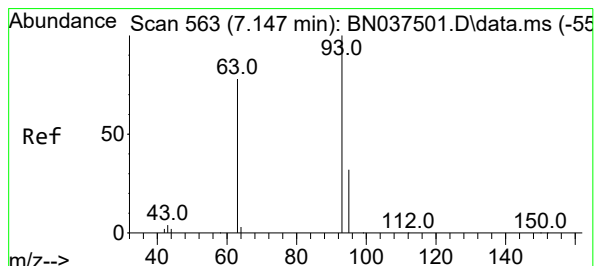
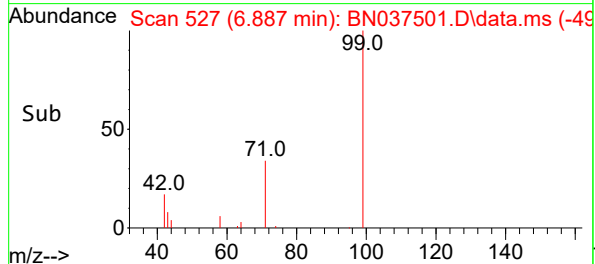
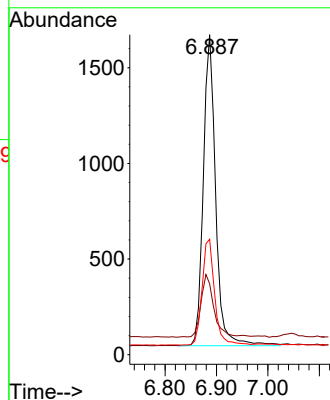
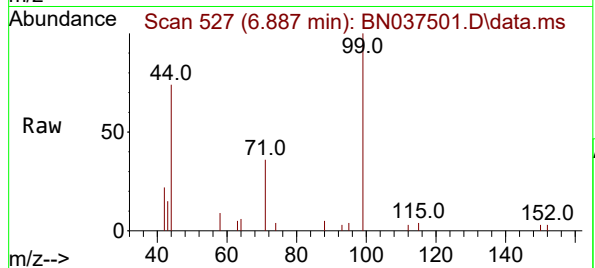




#5
Phenol-d6
Concen: 0.384 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

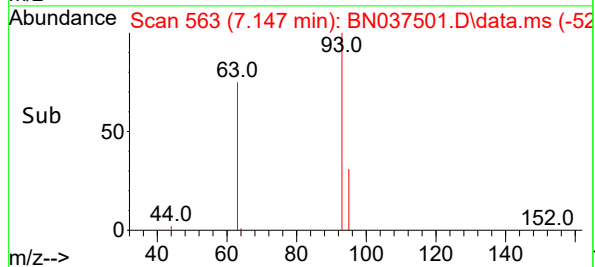
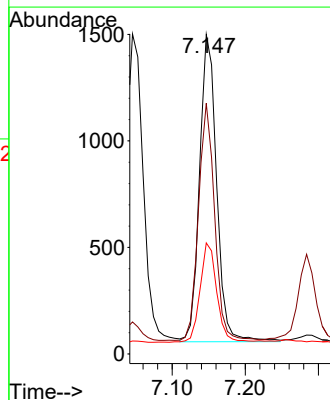
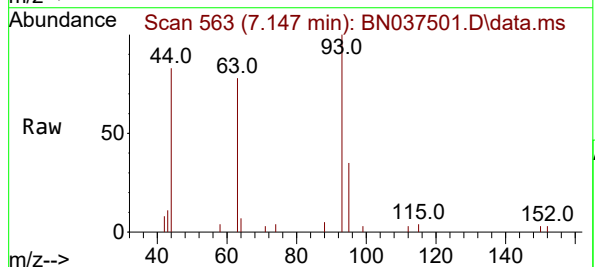
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

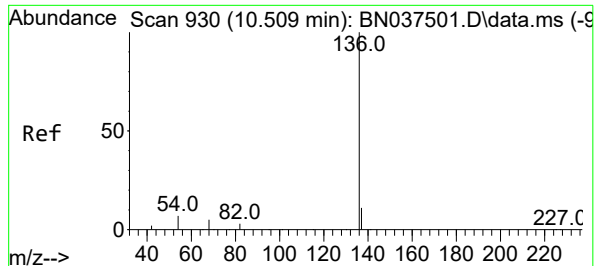
Tgt Ion: 99 Resp: 2721
Ion Ratio Lower Upper
99 100
42 21.4 17.1 25.7
71 34.8 27.8 41.8



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

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

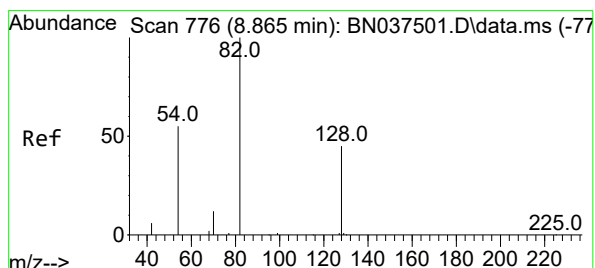
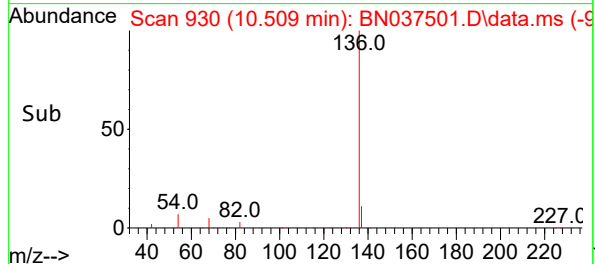
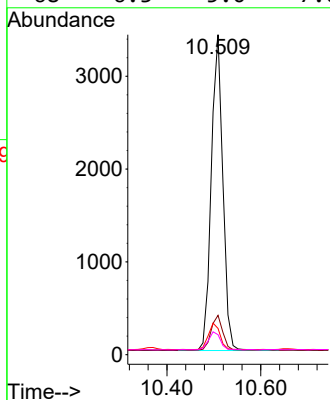
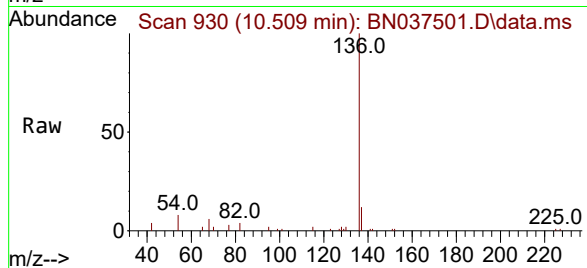




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

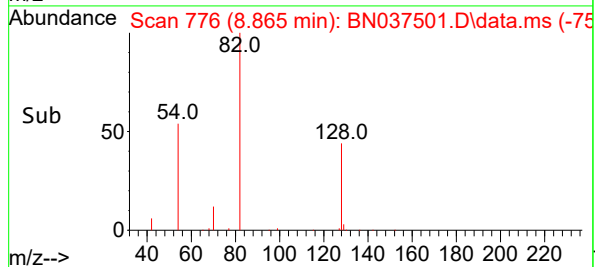
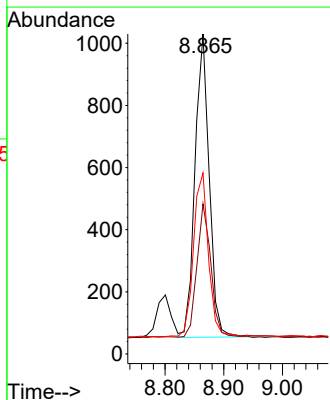
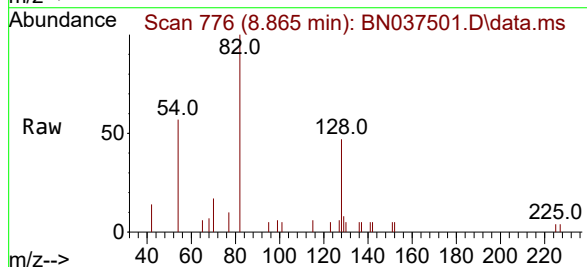
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

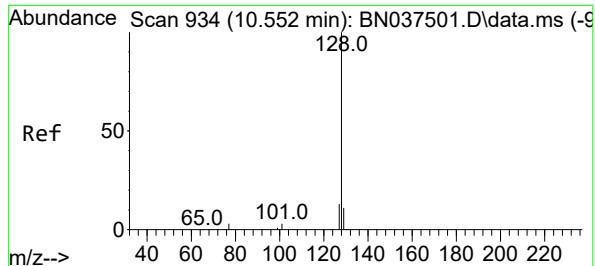
Tgt Ion:	136	Resp:	5836
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	8.2	6.6	9.8
68	6.3	5.0	7.6



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

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

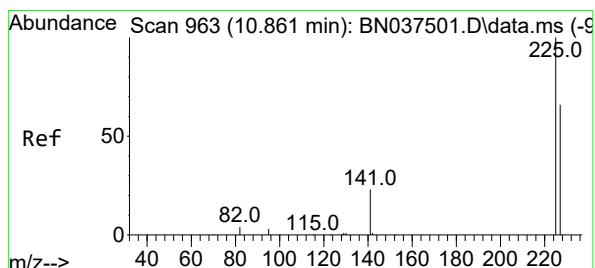
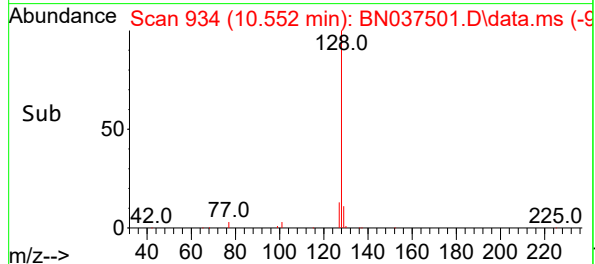
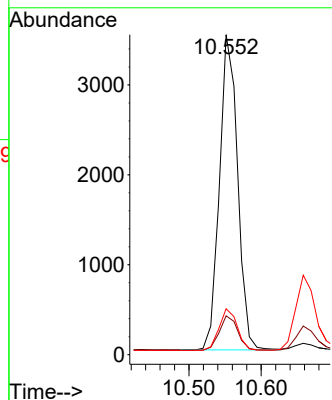
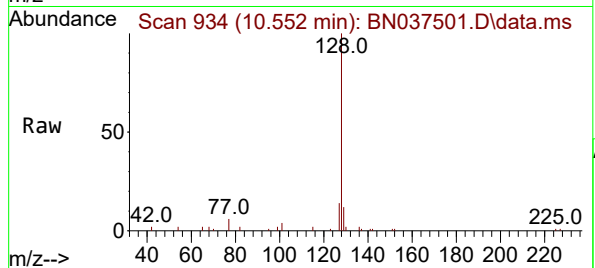




#9
Naphthalene
Concen: 0.392 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

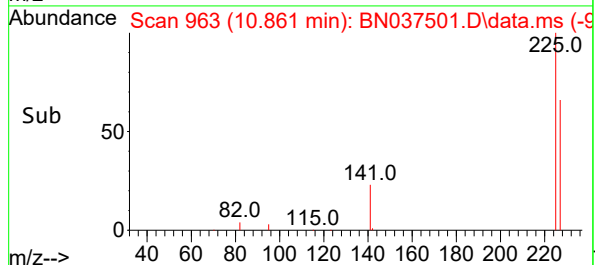
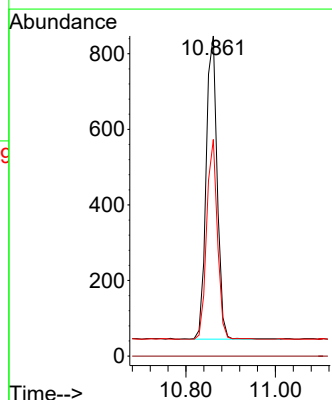
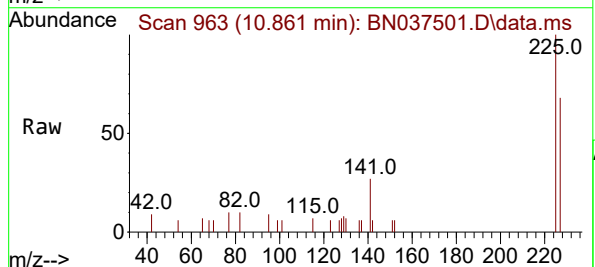
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

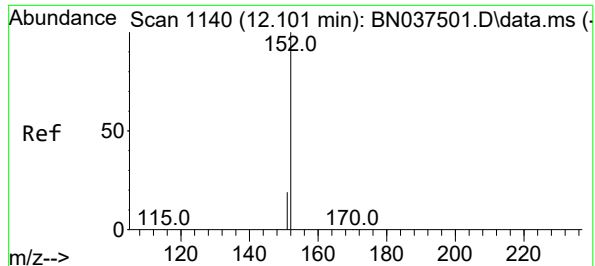
Tgt Ion:128 Resp: 6104
Ion Ratio Lower Upper
128 100
129 12.1 9.7 14.5
127 14.4 11.5 17.3



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

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

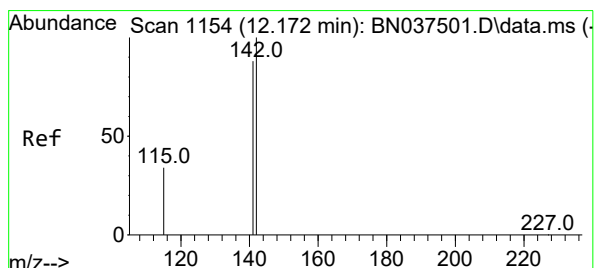
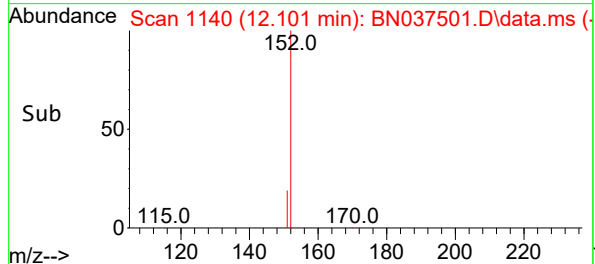
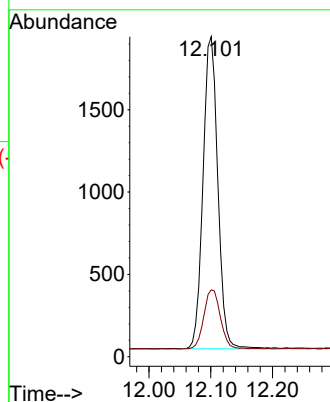
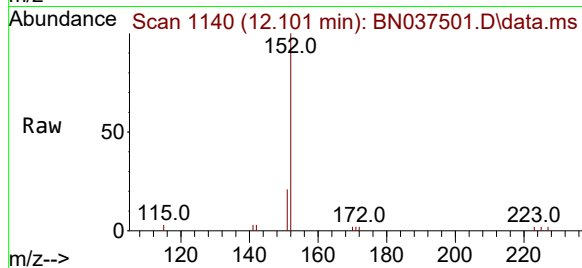




#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

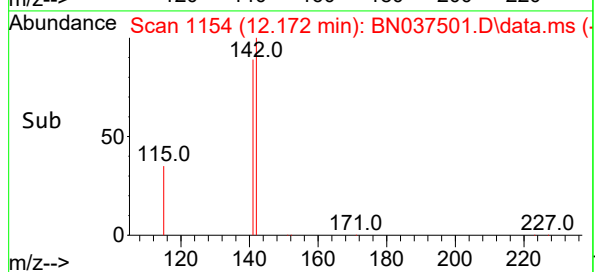
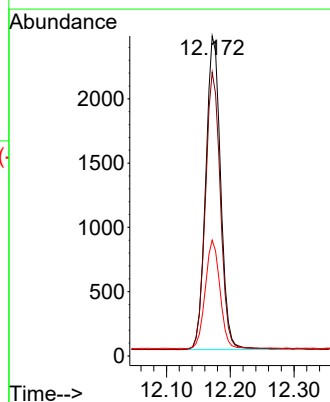
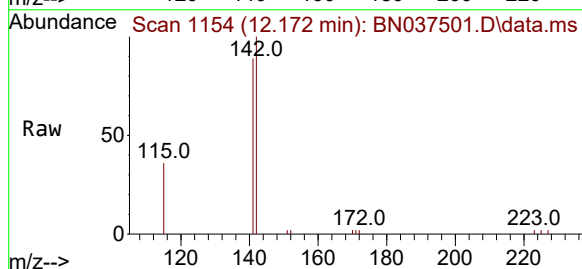
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

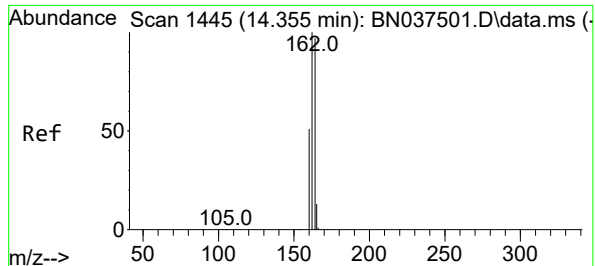
Tgt Ion:152 Resp: 3156
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



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

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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.355 min Scan# 1445

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

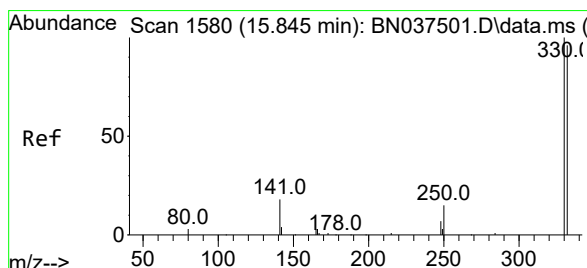
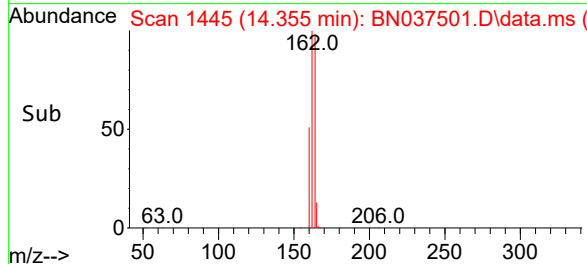
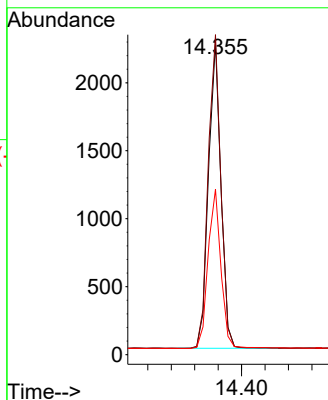
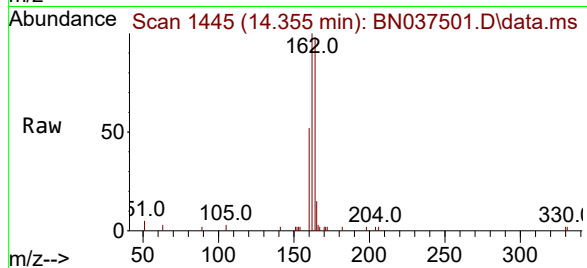
Tgt Ion:164 Resp: 3328

Ion Ratio Lower Upper

164 100

162 102.5 82.0 123.0

160 53.0 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 0.352 ng

RT: 15.845 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

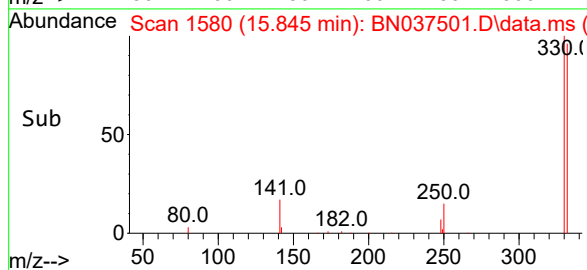
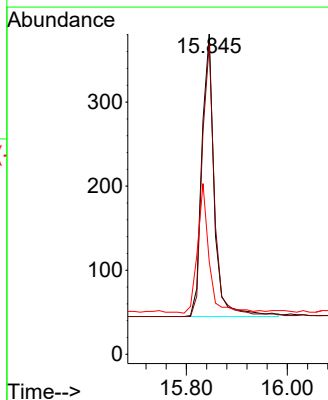
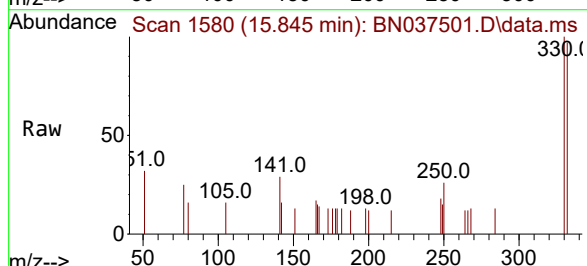
Tgt Ion:330 Resp: 576

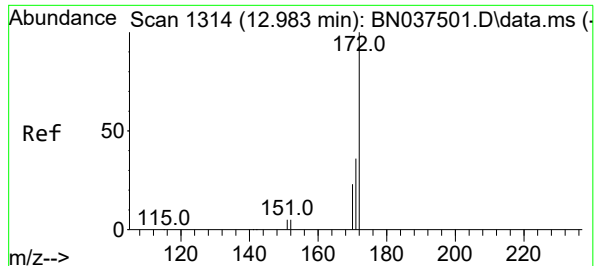
Ion Ratio Lower Upper

330 100

332 95.1 76.1 114.1

141 41.7 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.393 ng

RT: 12.983 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

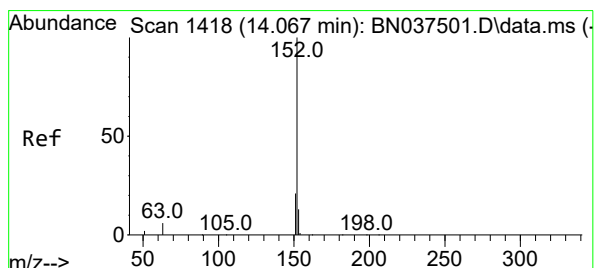
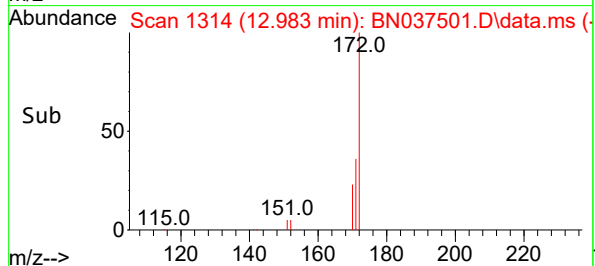
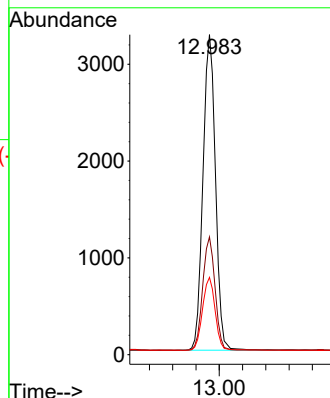
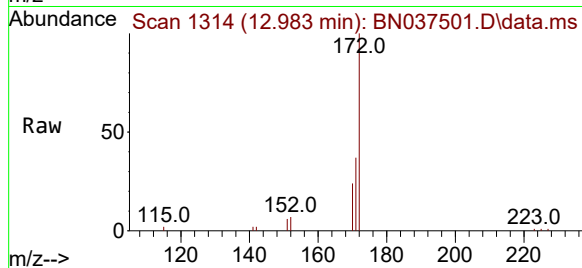
Tgt Ion:172 Resp: 6806

Ion Ratio Lower Upper

172 100

171 36.8 29.4 44.2

170 24.2 19.4 29.0



#16

Acenaphthylene

Concen: 0.384 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

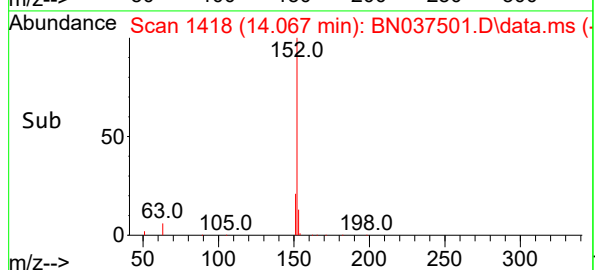
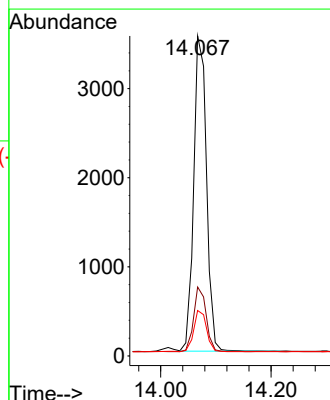
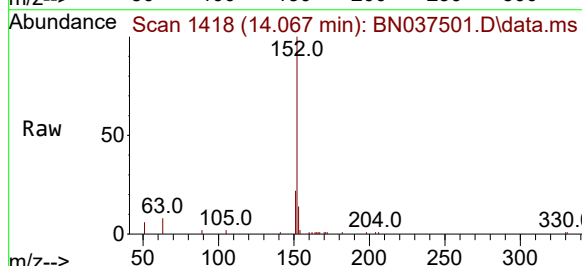
Tgt Ion:152 Resp: 5722

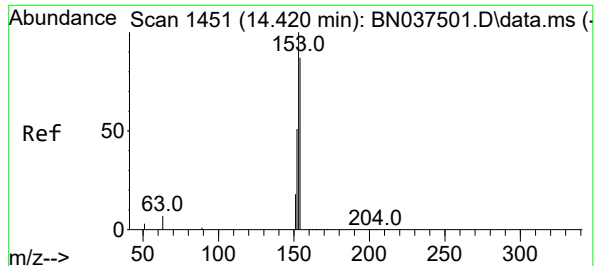
Ion Ratio Lower Upper

152 100

151 19.9 15.9 23.9

153 13.4 10.7 16.1





#17

Acenaphthene

Concen: 0.385 ng

RT: 14.420 min Scan# 1451

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

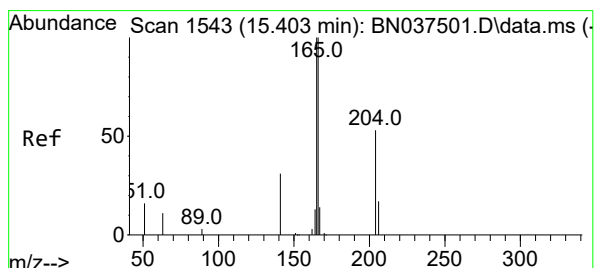
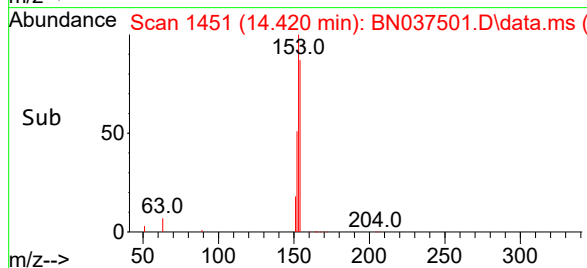
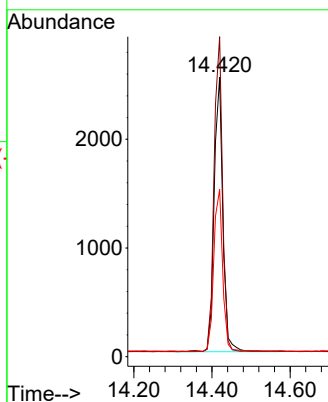
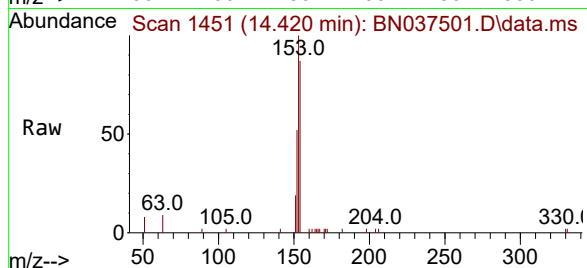
Tgt Ion:154 Resp: 3900

Ion Ratio Lower Upper

154 100

153 111.5 89.2 133.8

152 60.0 48.0 72.0



#18

Fluorene

Concen: 0.379 ng

RT: 15.403 min Scan# 1543

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

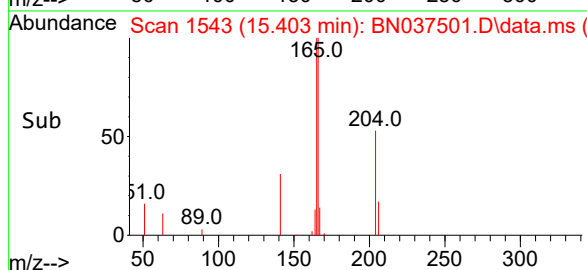
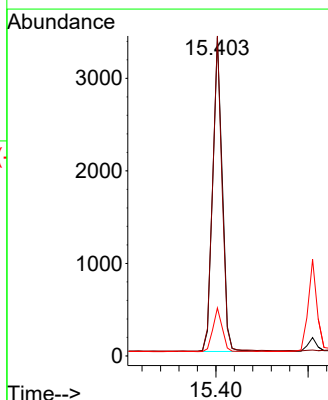
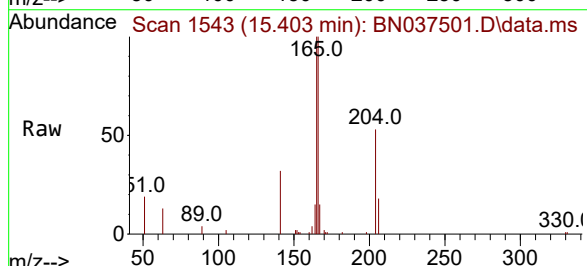
Tgt Ion:166 Resp: 4943

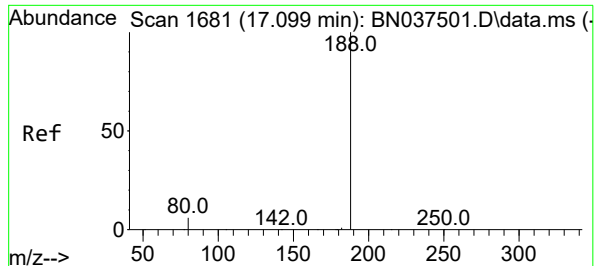
Ion Ratio Lower Upper

166 100

165 97.6 78.1 117.1

167 13.8 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

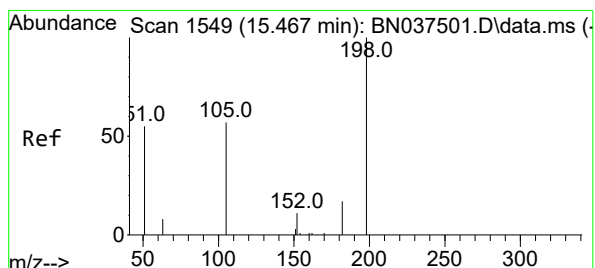
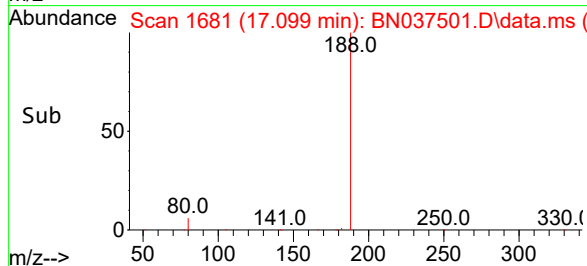
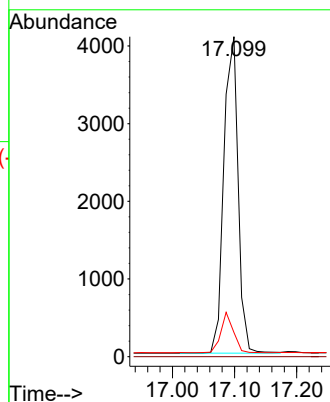
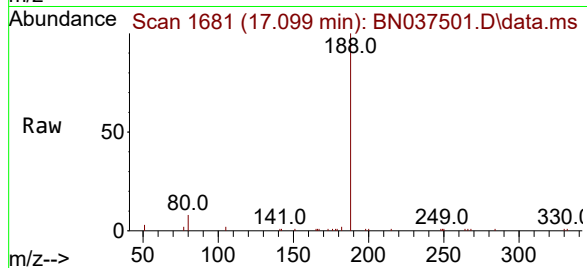
Tgt Ion:188 Resp: 6474

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.396 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

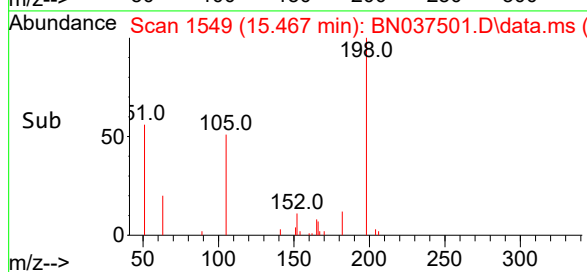
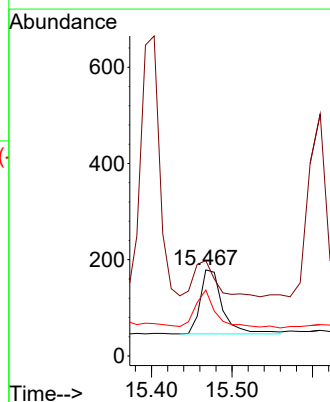
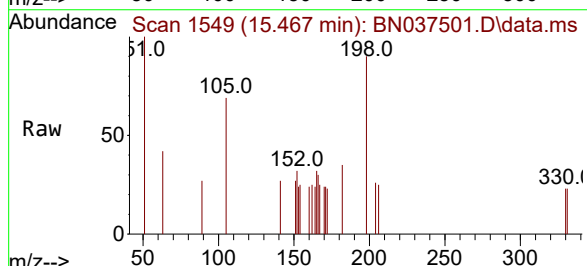
Tgt Ion:198 Resp: 268

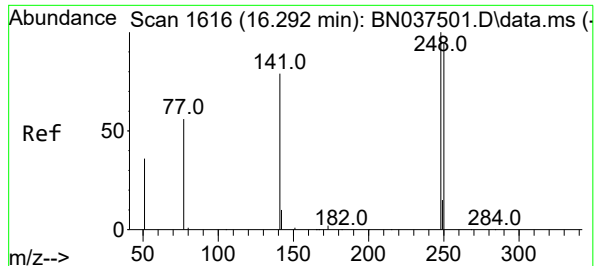
Ion Ratio Lower Upper

198 100

51 110.6 88.5 132.7

105 76.5 61.2 91.8

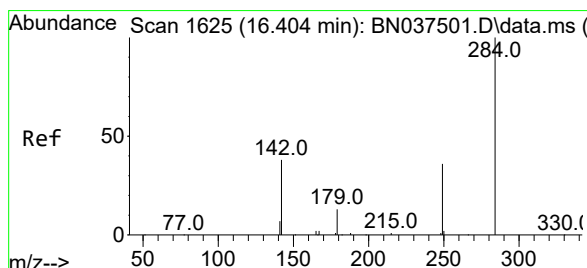
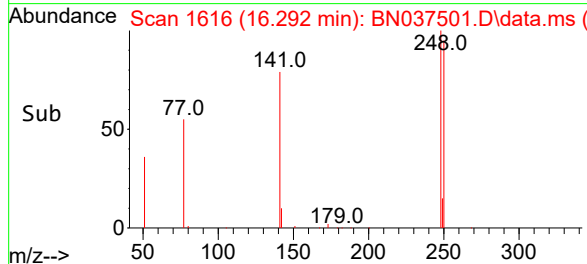
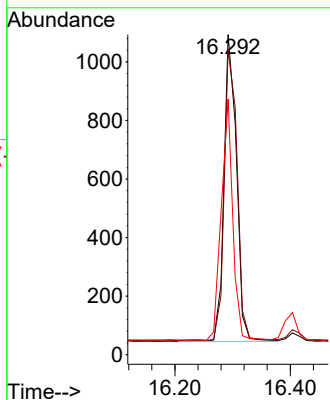
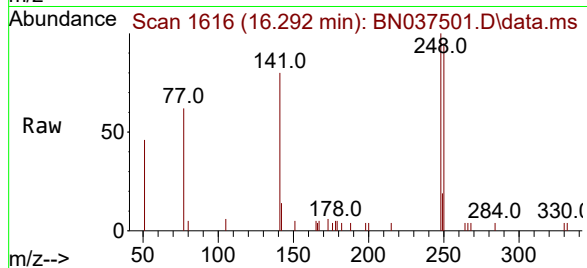




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

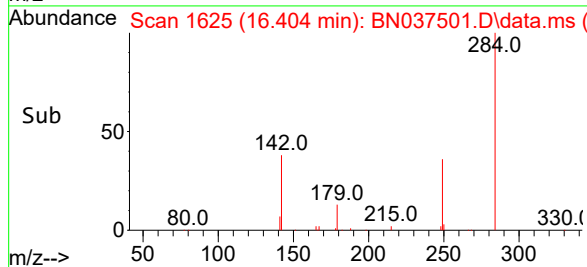
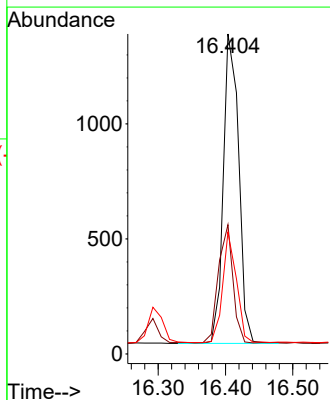
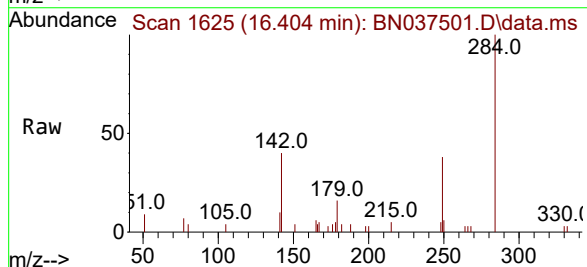
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

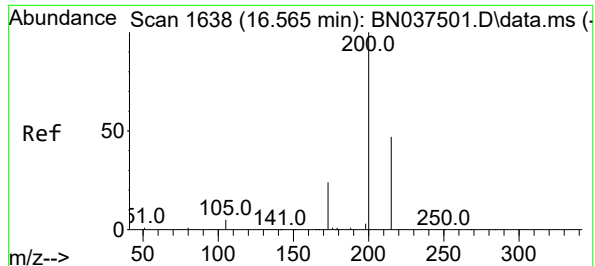
Tgt Ion: 248 Resp: 1574
Ion Ratio Lower Upper
248 100
250 95.2 76.2 114.2
141 79.9 63.9 95.9



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

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

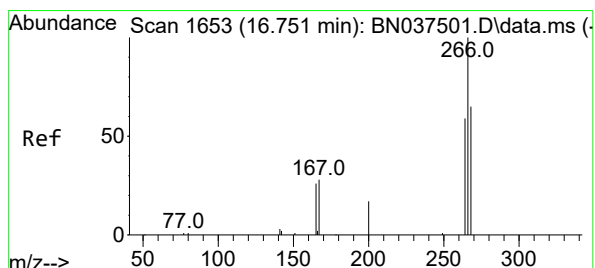
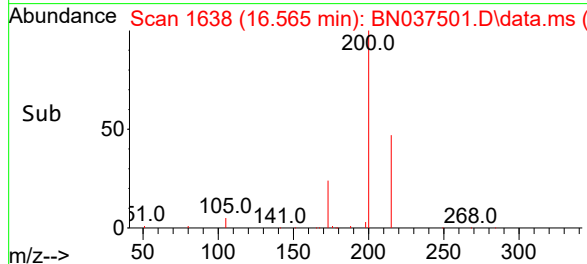
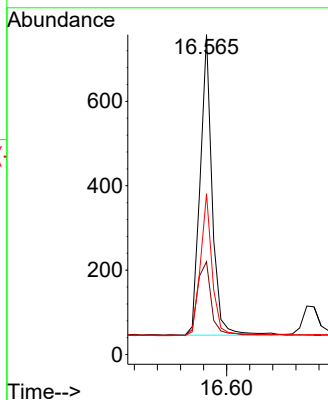
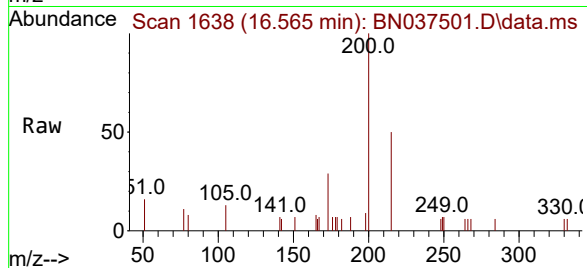




#23
Atrazine
Concen: 0.355 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

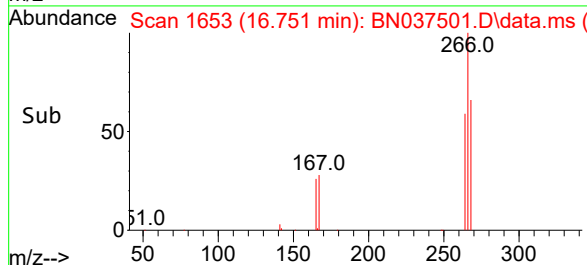
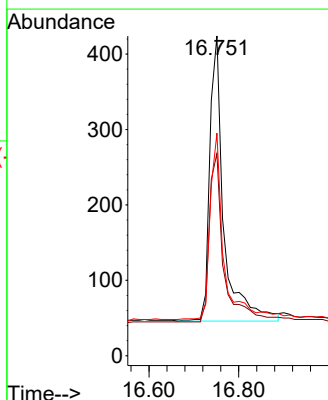
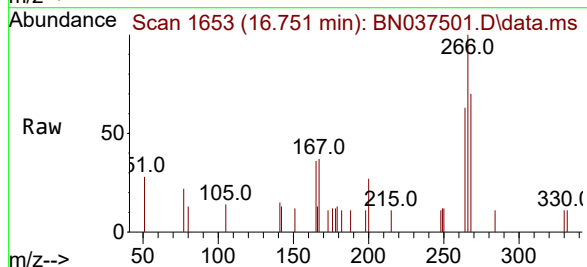
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

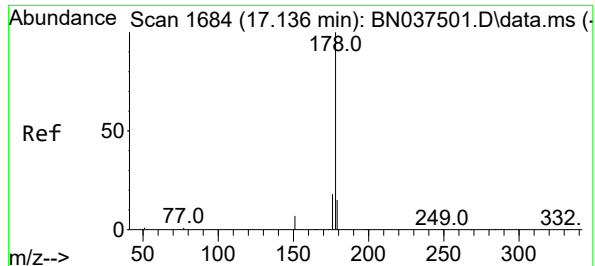
Tgt Ion:200 Resp: 1027
Ion Ratio Lower Upper
200 100
173 29.0 23.2 34.8
215 50.3 40.2 60.4



#24
Pentachlorophenol
Concen: 0.338 ng
RT: 16.751 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN037501.D
Acq: 15 Jul 2025 13:49

Tgt Ion:266 Resp: 812
Ion Ratio Lower Upper
266 100
264 61.6 49.3 73.9
268 64.5 51.6 77.4





#25

Phenanthrene

Concen: 0.387 ng

RT: 17.136 min Scan# 1684

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

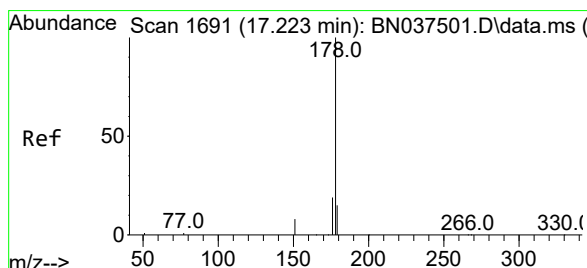
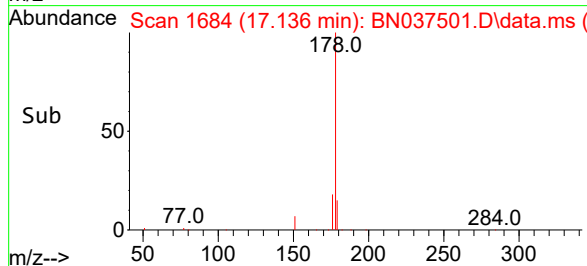
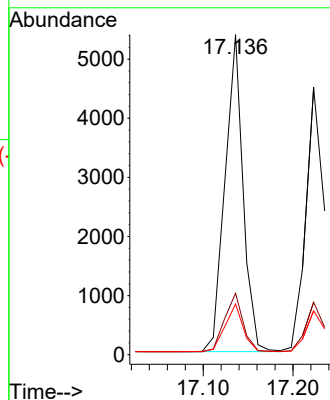
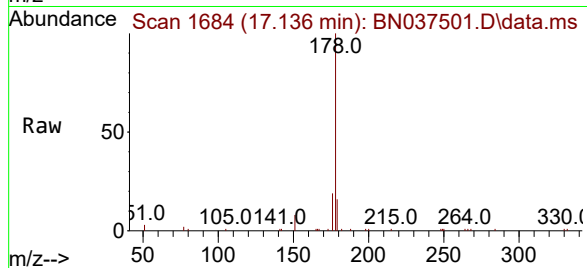
Tgt Ion:178 Resp: 7511

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.2 12.2 18.2



#26

Anthracene

Concen: 0.370 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

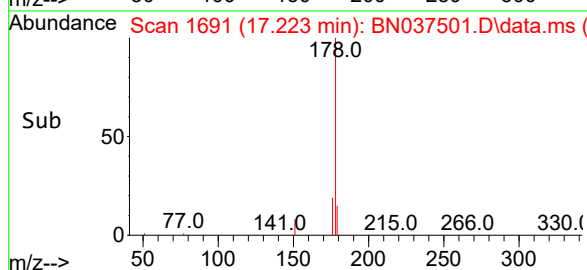
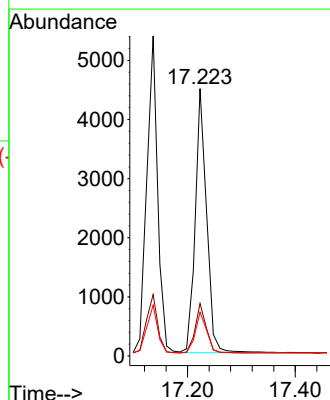
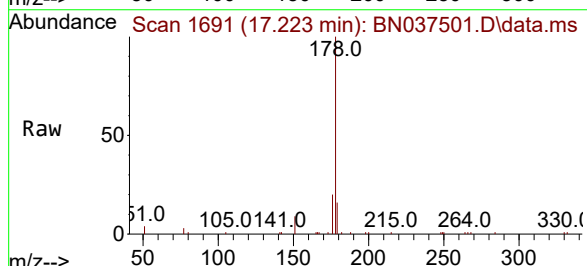
Tgt Ion:178 Resp: 6557

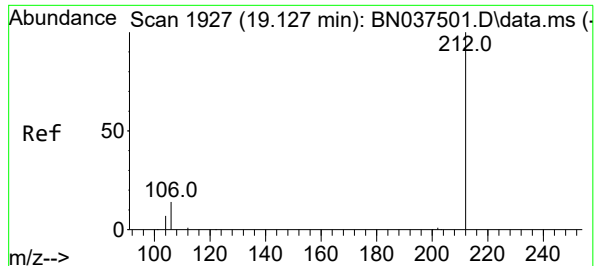
Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

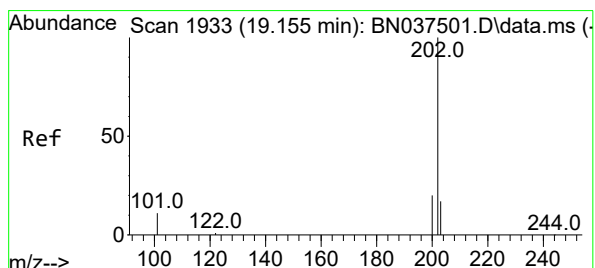
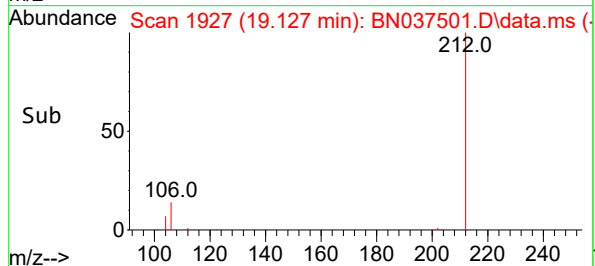
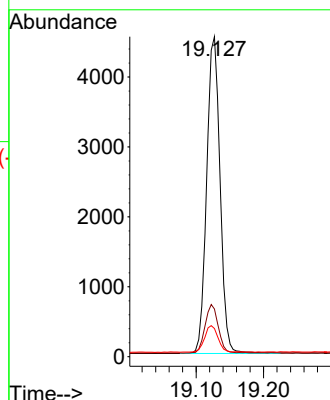
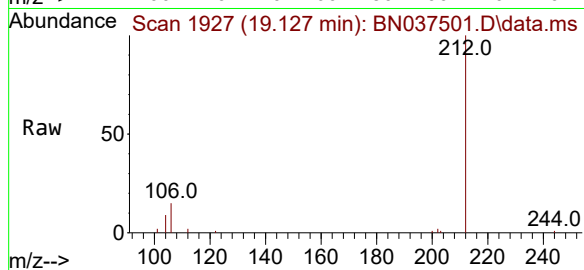
Tgt Ion:212 Resp: 6230

Ion Ratio Lower Upper

212 100

106 15.3 12.2 18.4

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 0.373 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

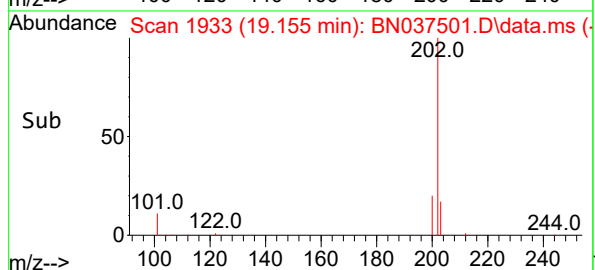
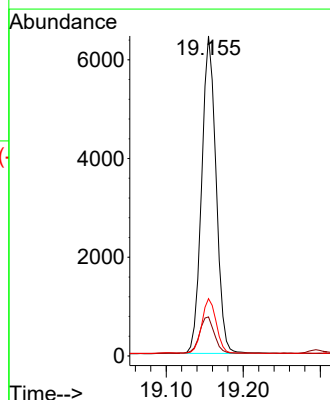
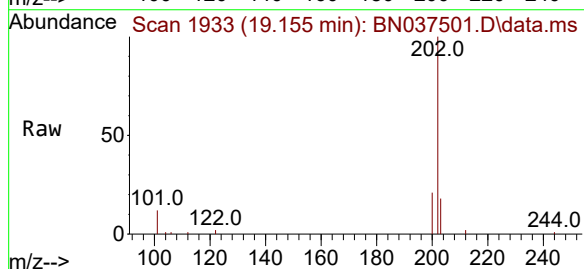
Tgt Ion:202 Resp: 8352

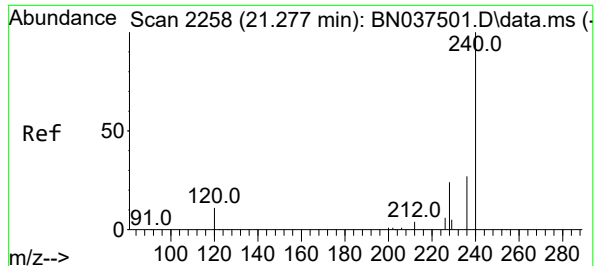
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

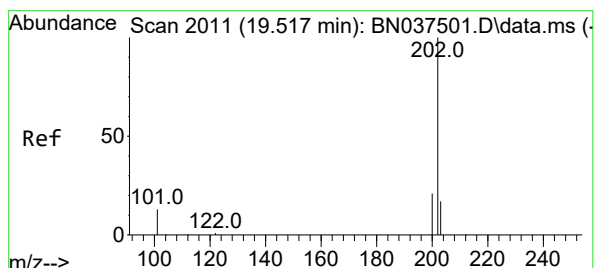
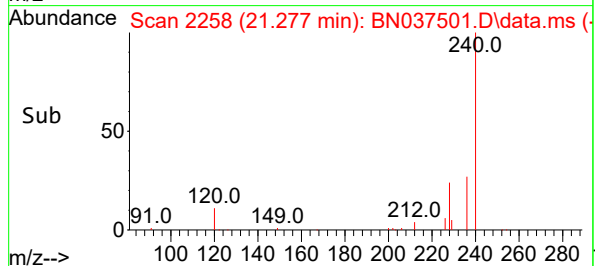
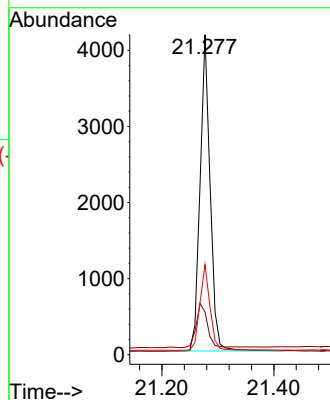
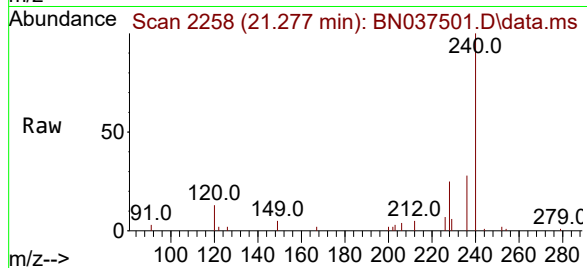
Tgt Ion:240 Resp: 5210

Ion Ratio Lower Upper

240 100

120 13.4 10.7 16.1

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.399 ng

RT: 19.517 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

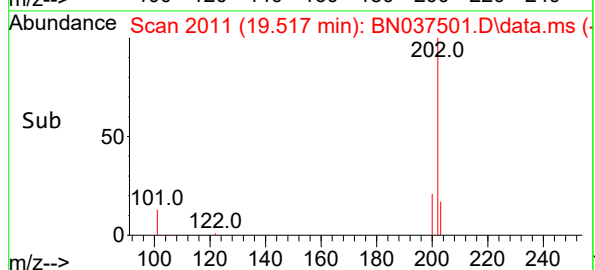
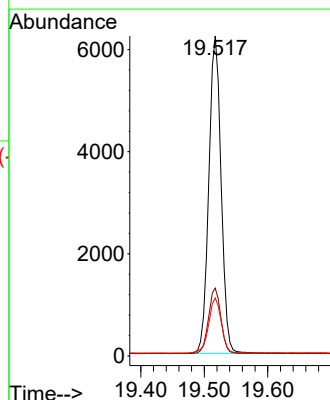
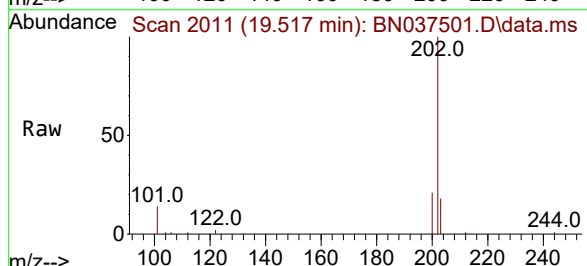
Tgt Ion:202 Resp: 8375

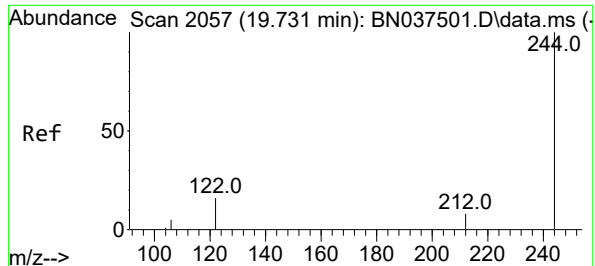
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.9 14.3 21.5





#31

Terphenyl-d14

Concen: 0.393 ng

RT: 19.731 min Scan# 2057

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

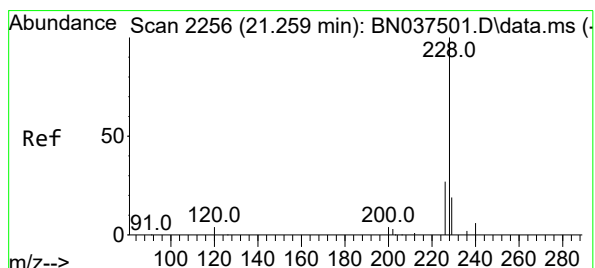
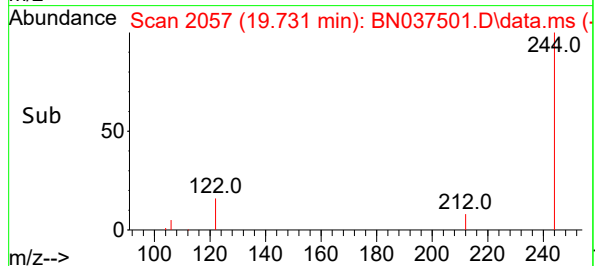
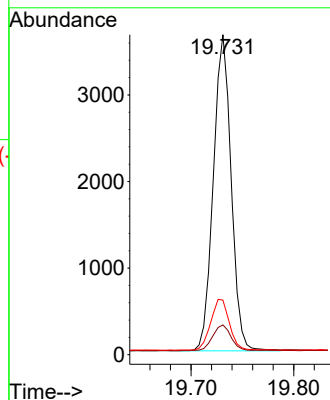
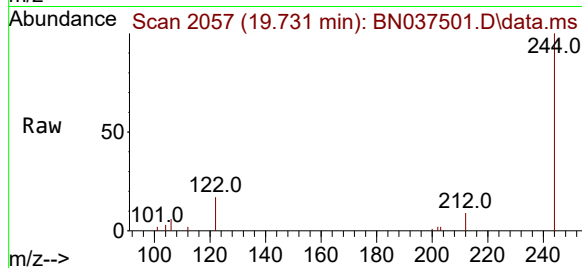
Tgt Ion:244 Resp: 4396

Ion Ratio Lower Upper

244 100

212 9.3 7.4 11.2

122 17.0 13.6 20.4



#32

Benzo(a)anthracene

Concen: 0.383 ng

RT: 21.259 min Scan# 2256

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

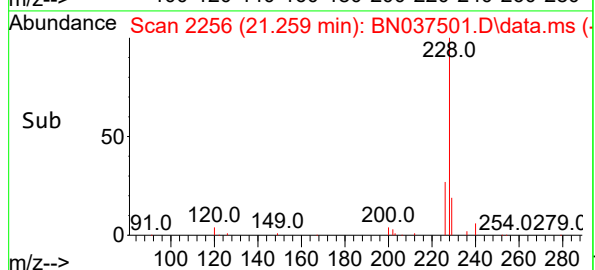
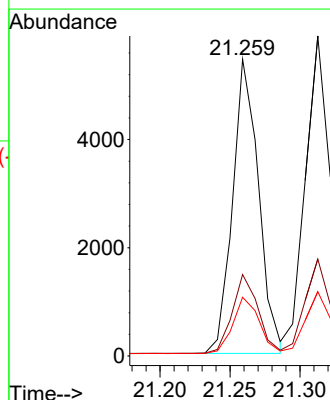
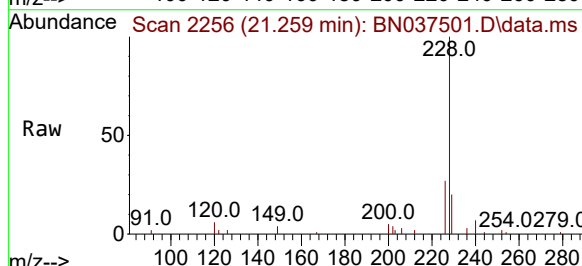
Tgt Ion:228 Resp: 6989

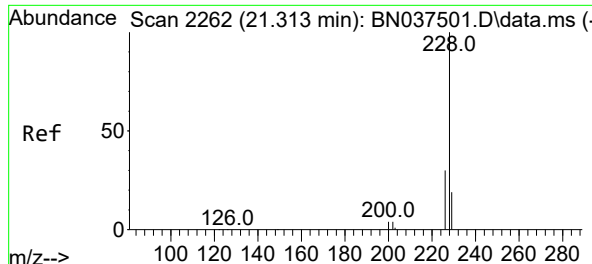
Ion Ratio Lower Upper

228 100

226 27.4 21.9 32.9

229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.393 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

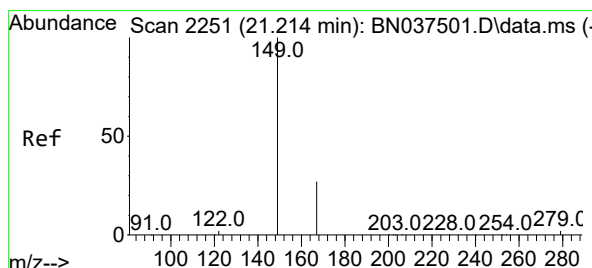
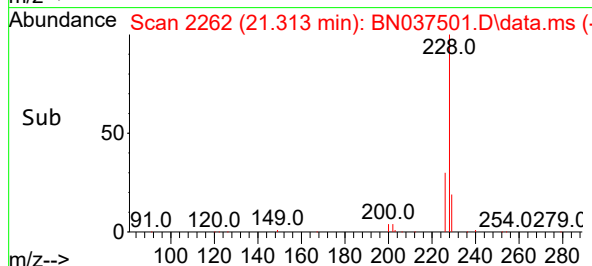
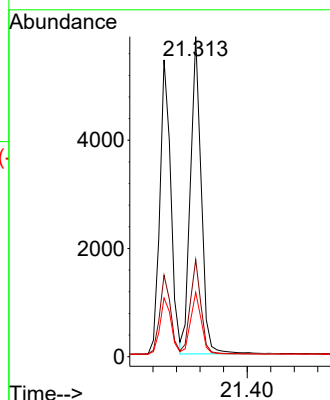
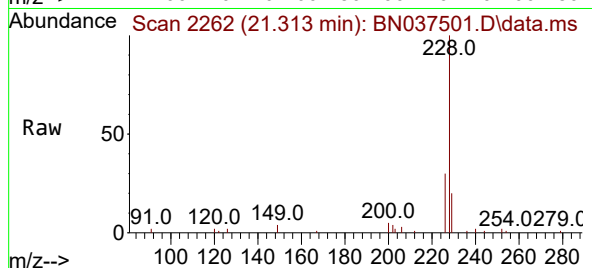
Tgt Ion:228 Resp: 7472

Ion Ratio Lower Upper

228 100

226 30.3 24.2 36.4

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

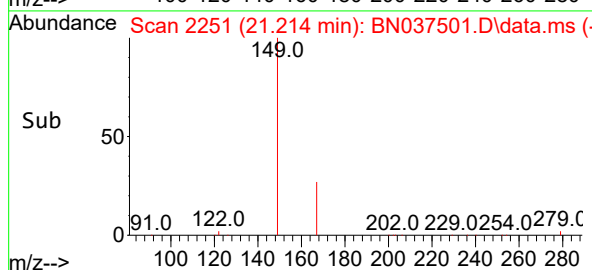
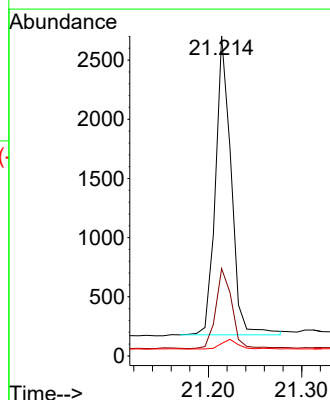
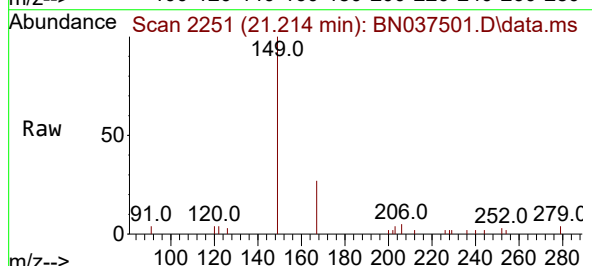
Tgt Ion:149 Resp: 2941

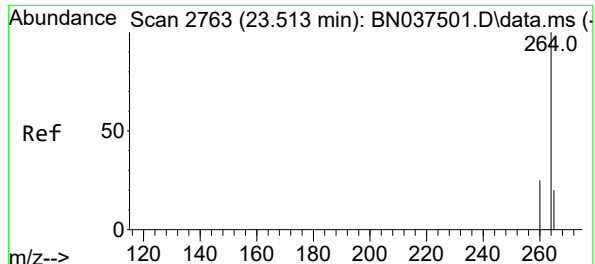
Ion Ratio Lower Upper

149 100

167 27.3 21.8 32.8

279 3.7 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.513 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

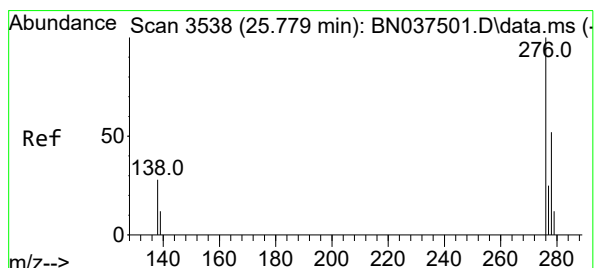
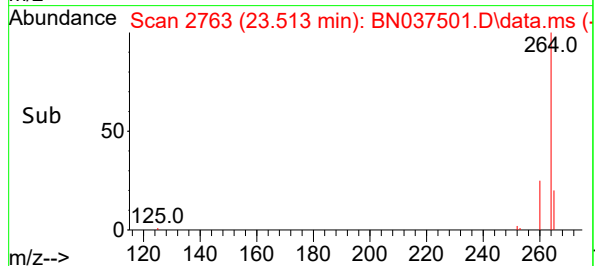
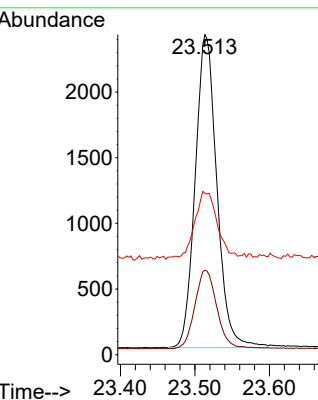
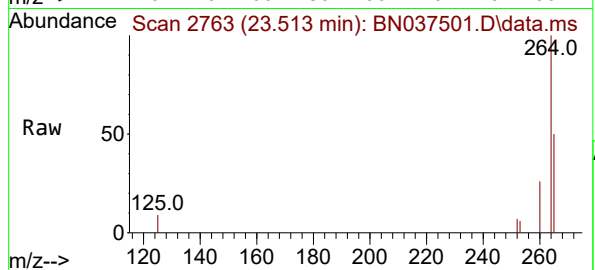
Tgt Ion:264 Resp: 4807

Ion Ratio Lower Upper

264 100

260 26.5 21.2 31.8

265 50.5 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.364 ng

RT: 25.779 min Scan# 3538

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

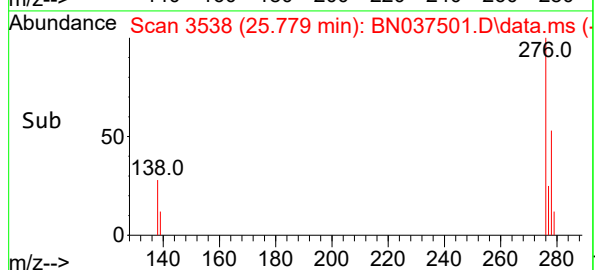
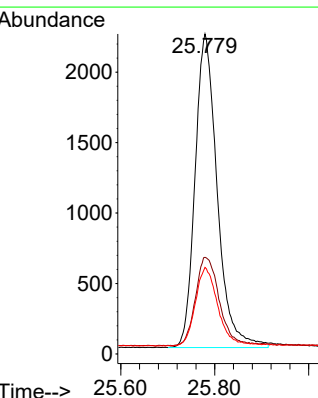
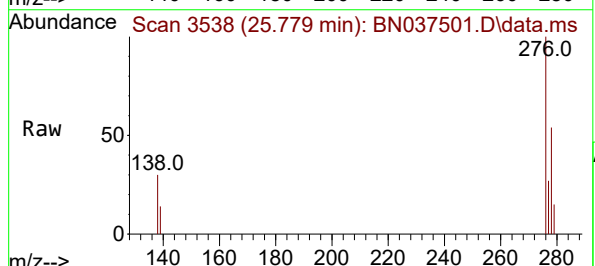
Tgt Ion:276 Resp: 7280

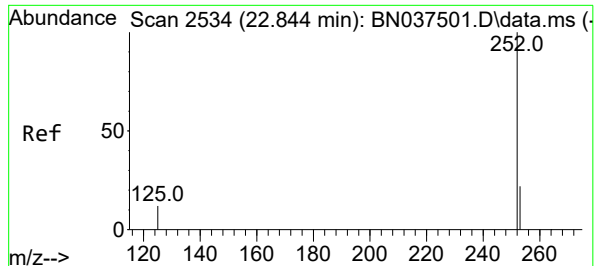
Ion Ratio Lower Upper

276 100

138 30.0 24.0 36.0

277 25.6 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.383 ng

RT: 22.844 min Scan# 2534

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

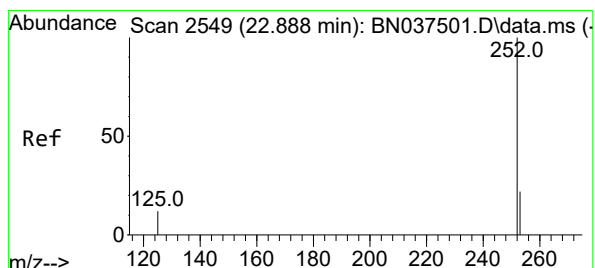
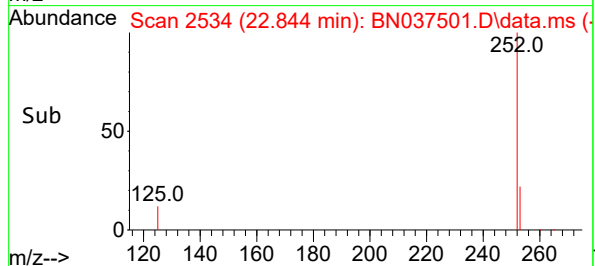
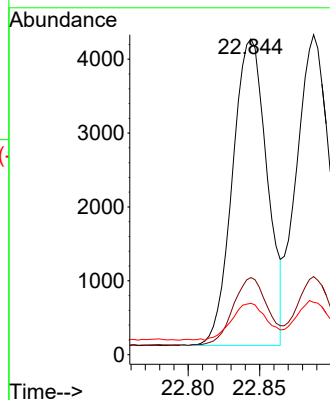
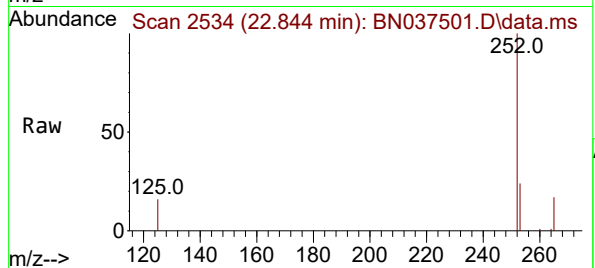
Tgt Ion:252 Resp: 6988

Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 16.3 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 22.888 min Scan# 2549

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

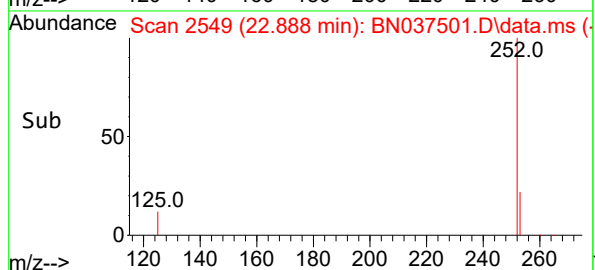
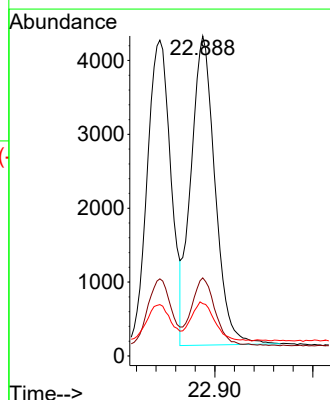
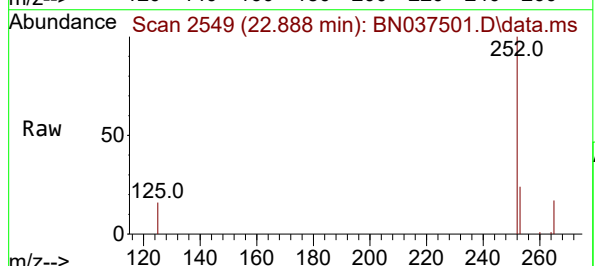
Tgt Ion:252 Resp: 7143

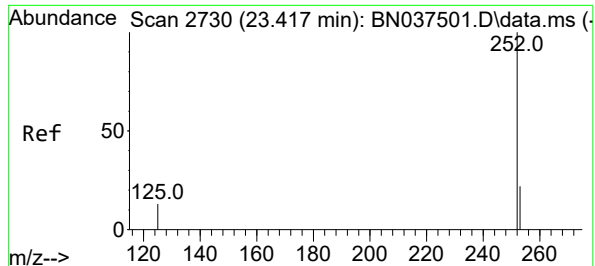
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 16.4 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.376 ng

RT: 23.417 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

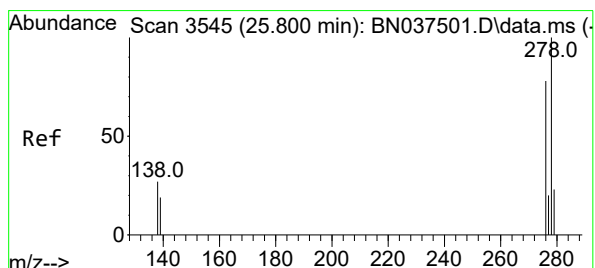
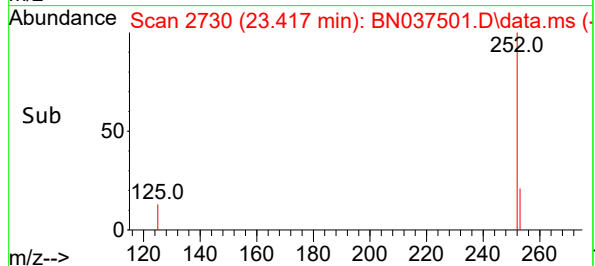
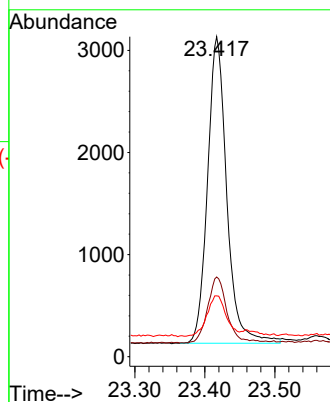
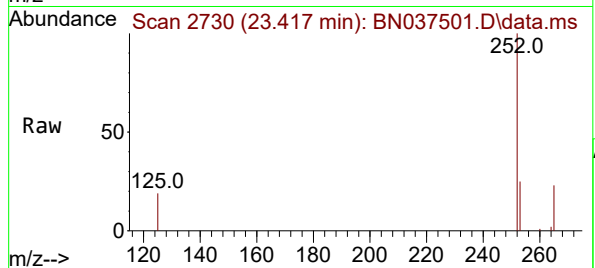
Tgt Ion:252 Resp: 5731

Ion Ratio Lower Upper

252 100

253 24.9 19.9 29.9

125 19.0 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.360 ng

RT: 25.800 min Scan# 3545

Delta R.T. 0.000 min

Lab File: BN037501.D

Acq: 15 Jul 2025 13:49

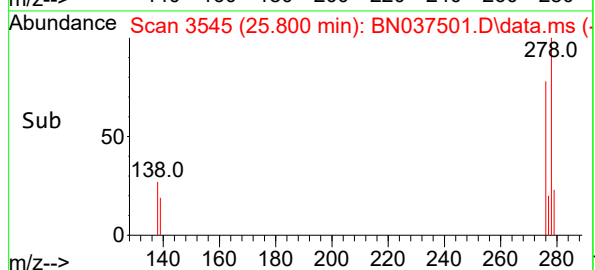
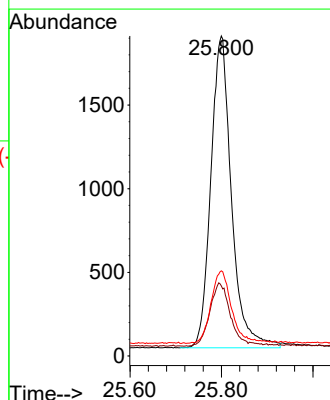
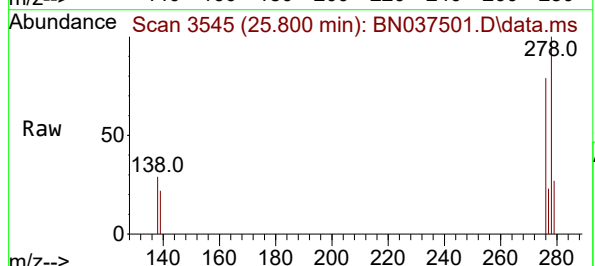
Tgt Ion:278 Resp: 5845

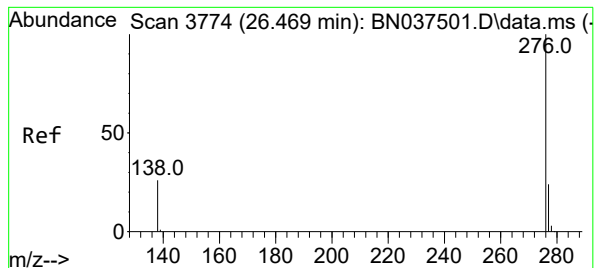
Ion Ratio Lower Upper

278 100

139 21.9 17.5 26.3

279 26.6 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.375 ng

RT: 26.469 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037501.D

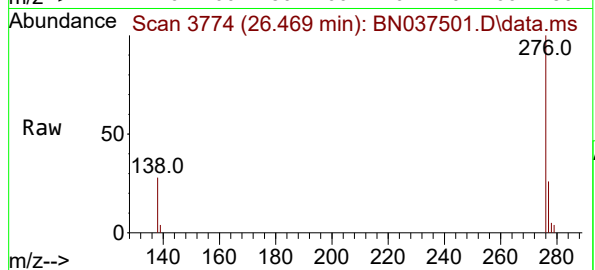
Acq: 15 Jul 2025 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



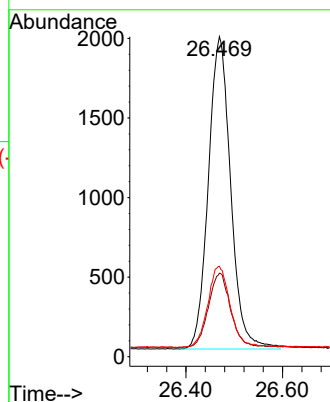
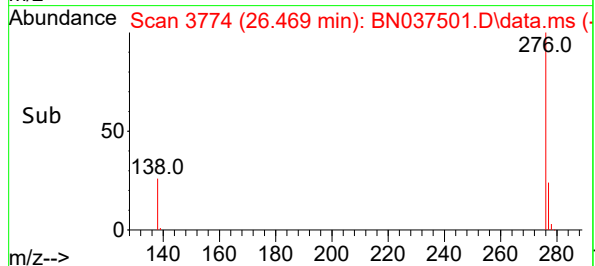
Tgt Ion:276 Resp: 6293

Ion Ratio Lower Upper

276 100

277 26.1 20.9 31.3

138 28.2 22.6 33.8



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

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

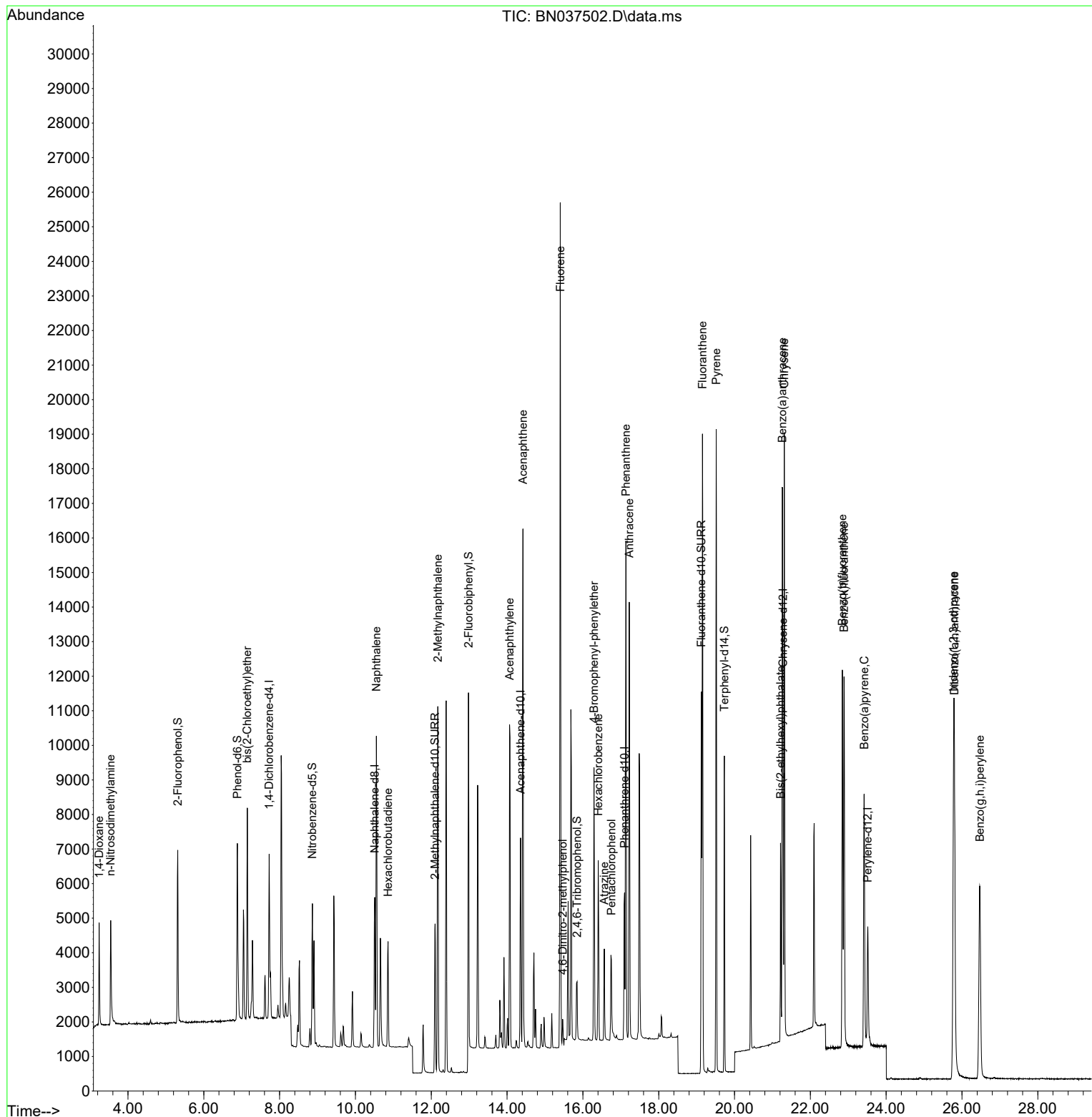
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2213	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5743	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3273	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6314	0.400	ng	0.00
29) Chrysene-d12	21.277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

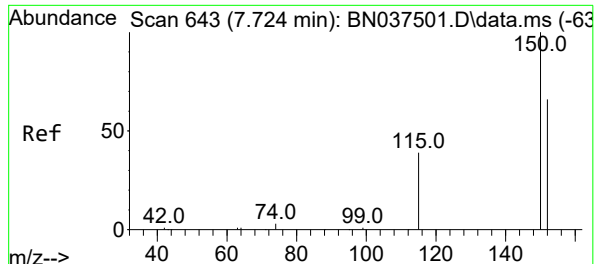
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

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

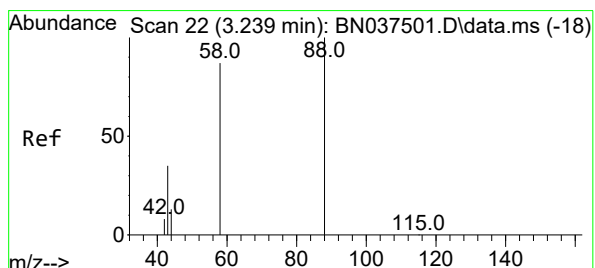
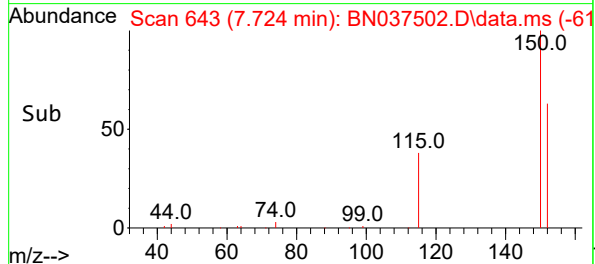
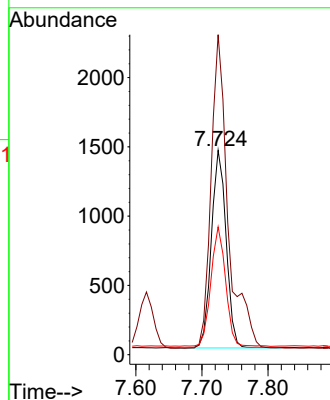
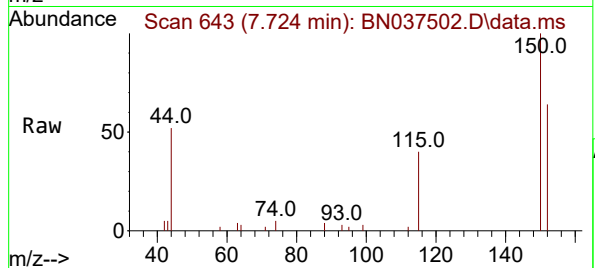




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

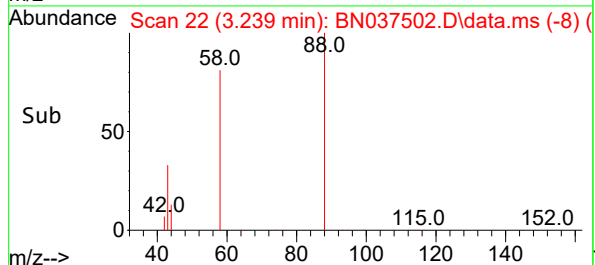
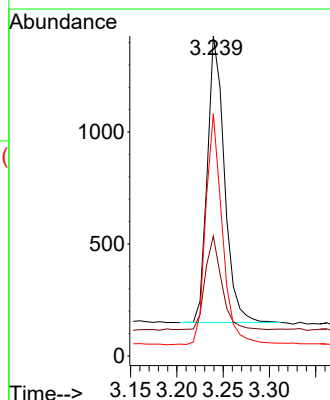
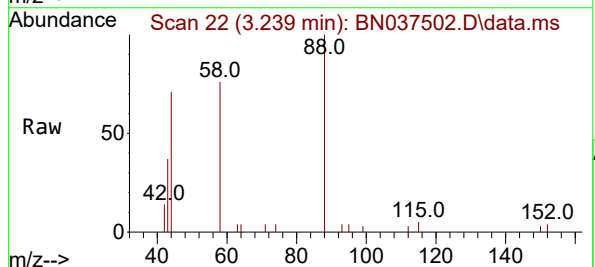
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

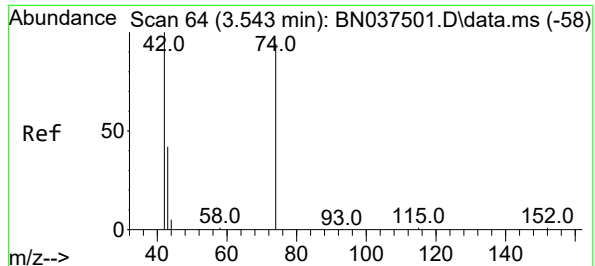
Tgt Ion:152 Resp: 2213
Ion Ratio Lower Upper
152 100
150 156.6 119.8 179.8
115 62.6 49.1 73.7



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

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

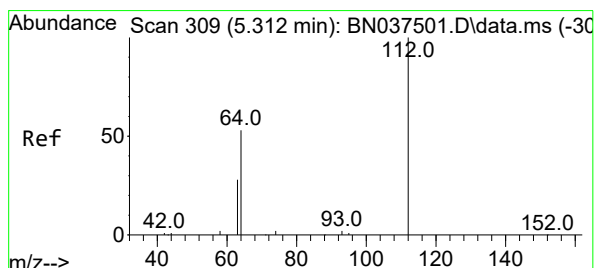
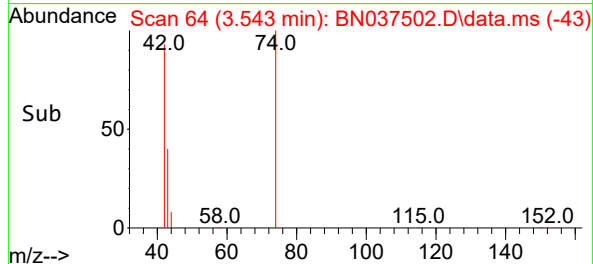
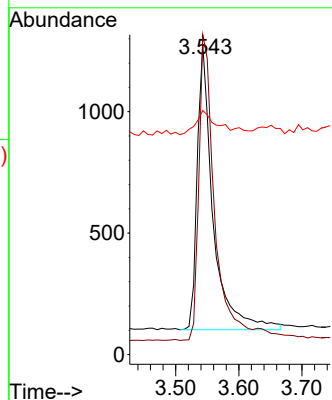
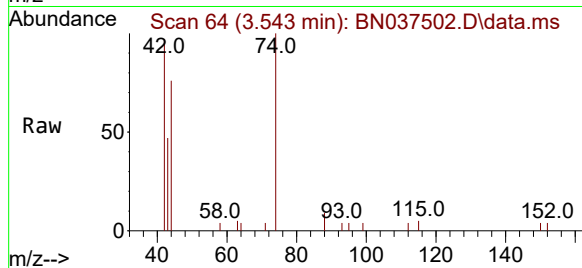




#3
n-Nitrosodimethylamine
Concen: 0.768 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

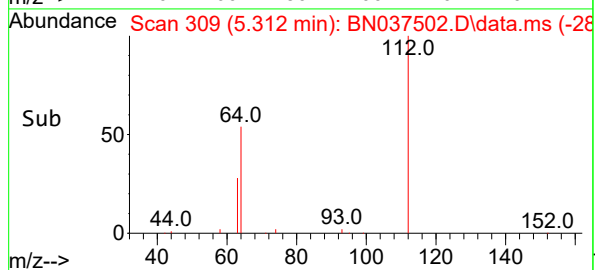
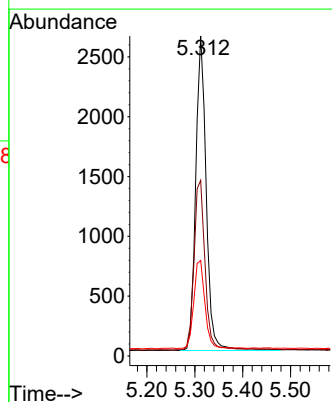
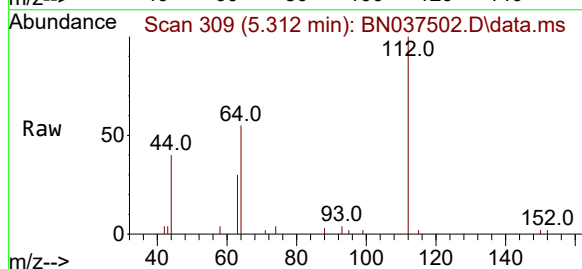
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

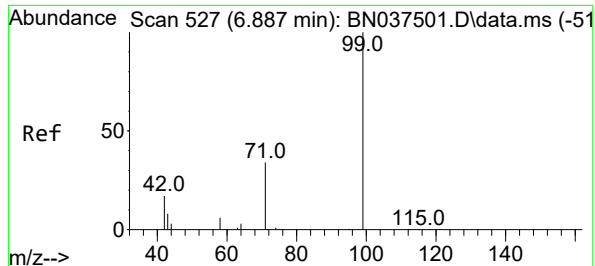
Tgt Ion: 42 Resp: 2056
Ion Ratio Lower Upper
42 100
74 110.1 91.8 137.6
44 12.3 15.0 22.6#



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

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

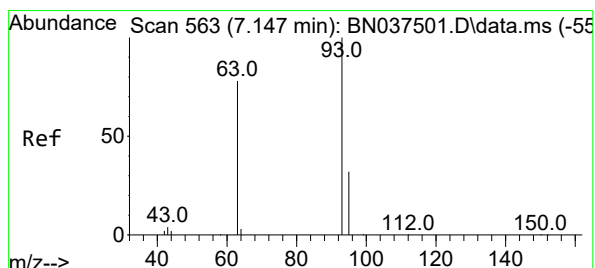
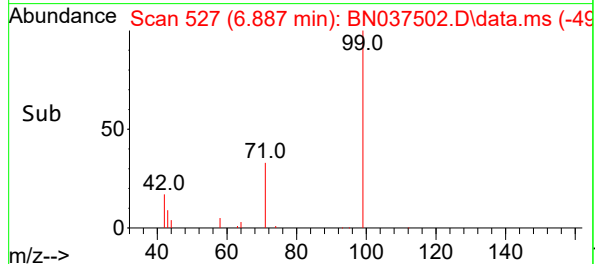
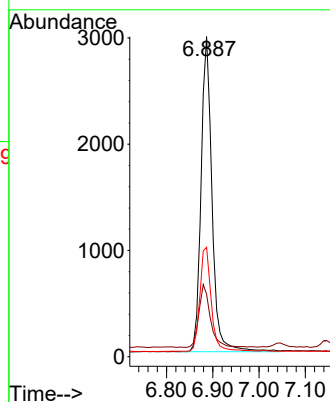
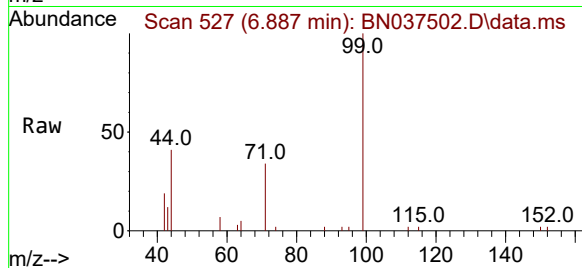




#5
Phenol-d6
Concen: 0.713 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

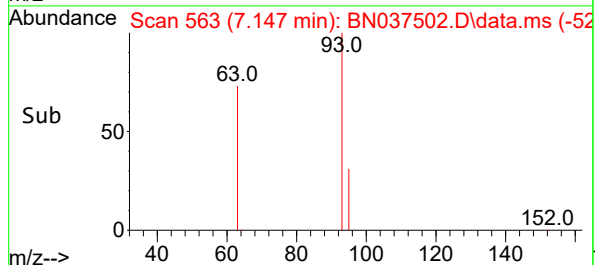
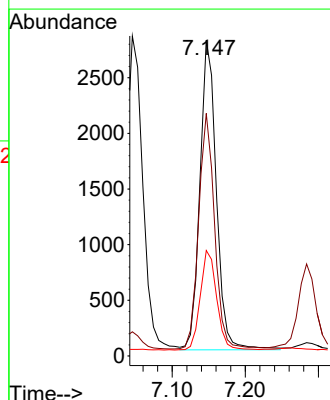
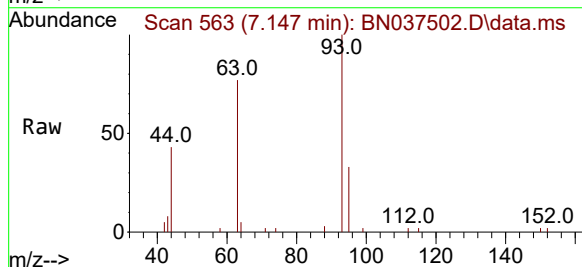
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

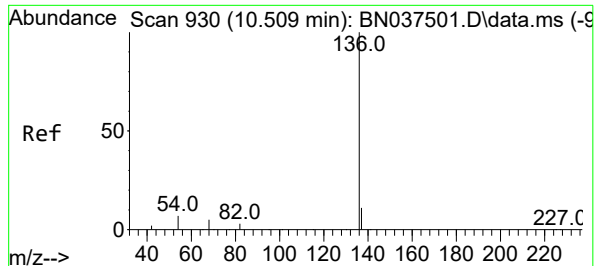
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.1	25.7
71	34.1	27.8	41.8



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

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

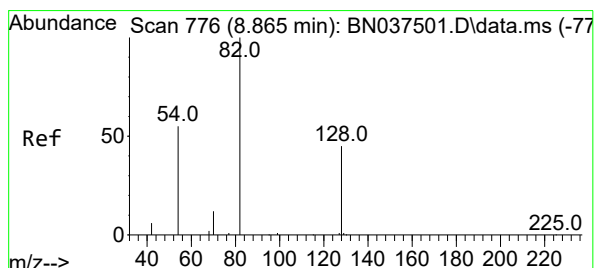
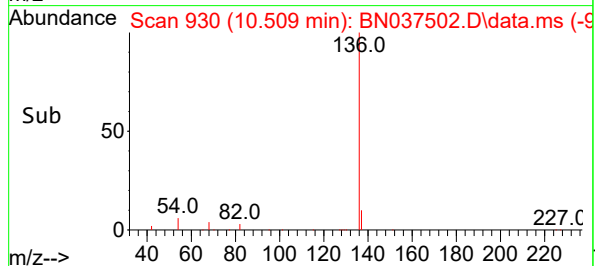
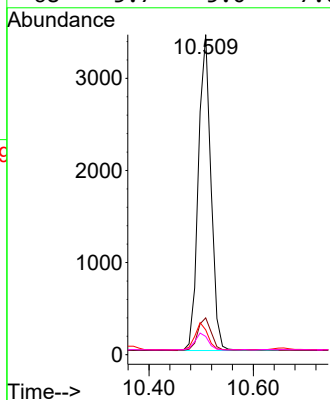
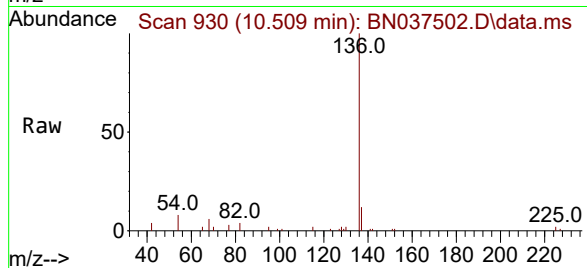




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

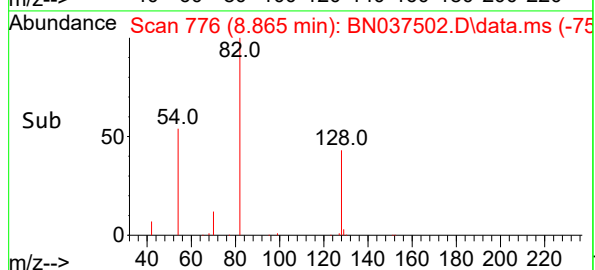
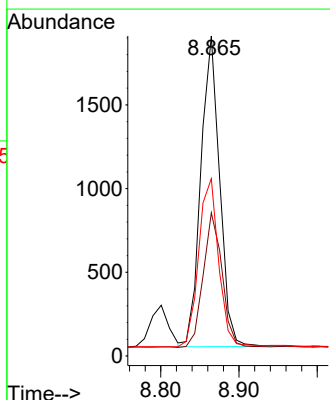
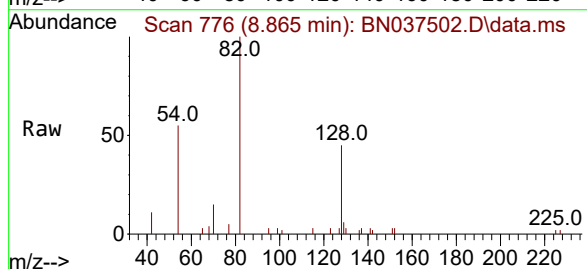
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

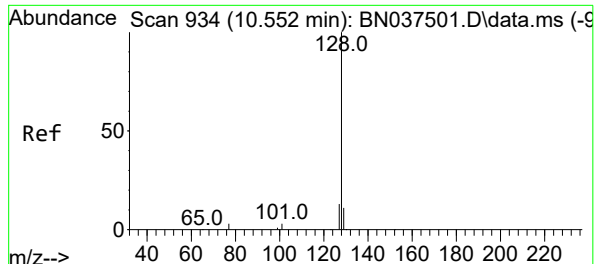
Tgt Ion:	136	Resp:	5743
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.8	14.8
54	7.7	6.6	9.8
68	5.7	5.0	7.6



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

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





#9

Naphthalene

Concen: 0.756 ng

RT: 10.552 min Scan# 911

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

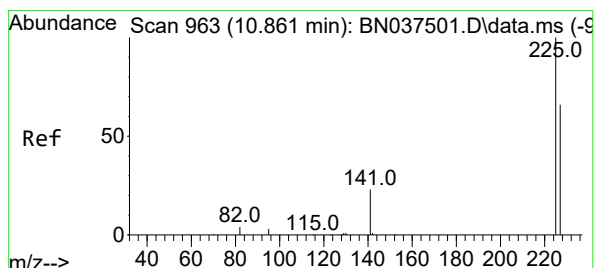
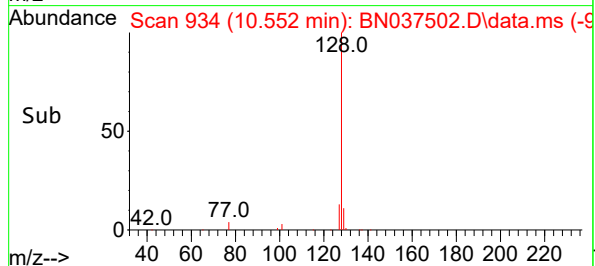
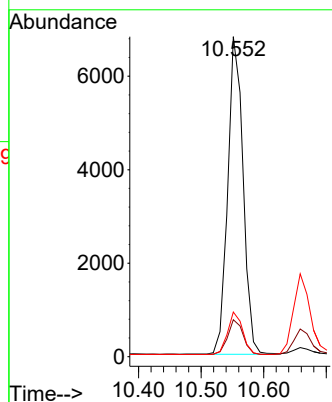
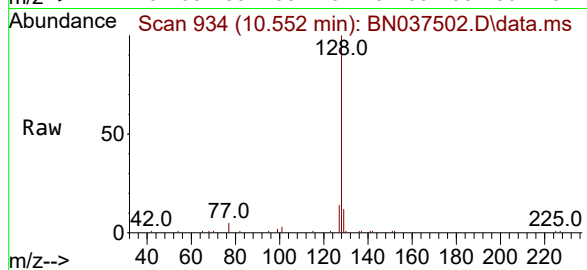
Tgt Ion:128 Resp: 11585

Ion Ratio Lower Upper

128 100

129 11.6 9.7 14.5

127 13.9 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.757 ng

RT: 10.861 min Scan# 963

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

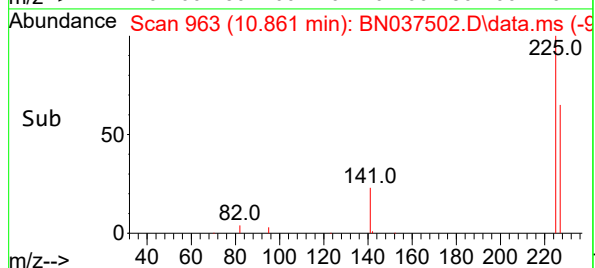
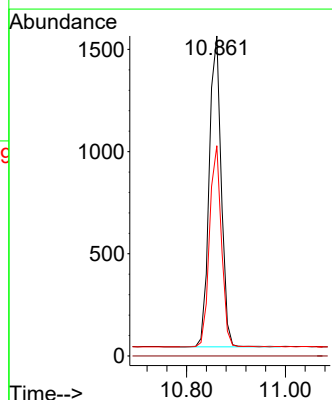
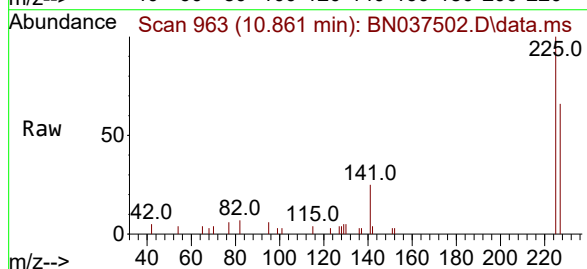
Tgt Ion:225 Resp: 2561

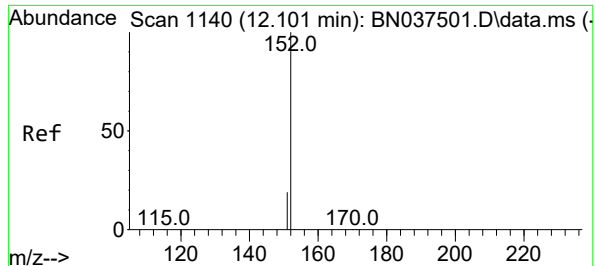
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.0 76.4

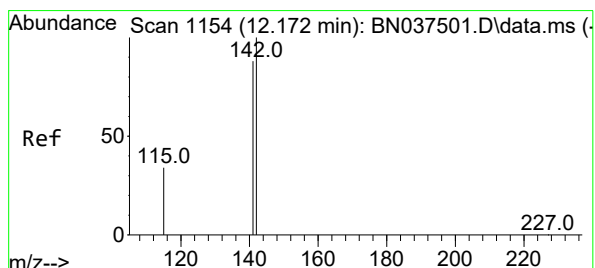
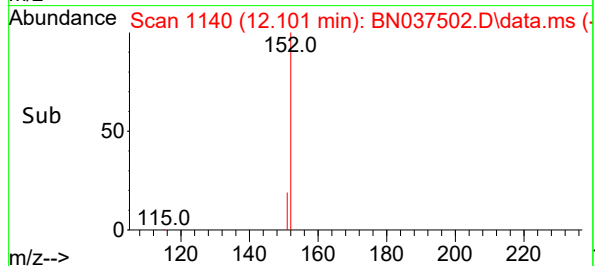
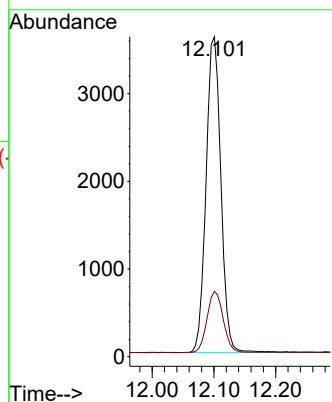
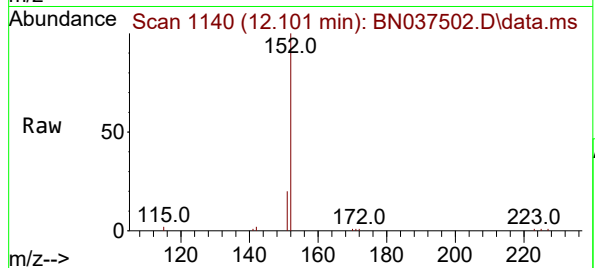




#11
2-Methylnaphthalene-d10
Concen: 0.728 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

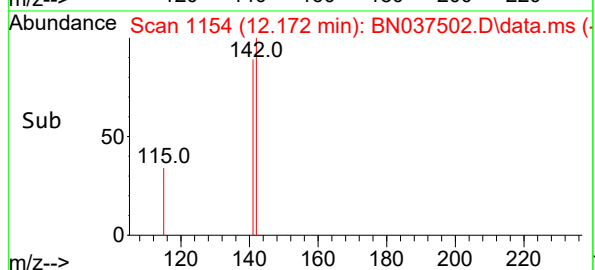
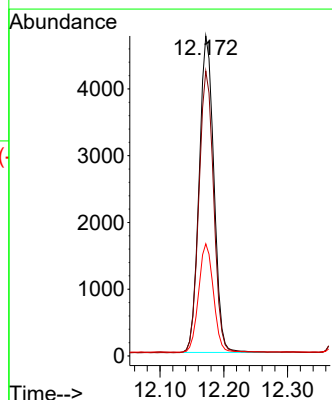
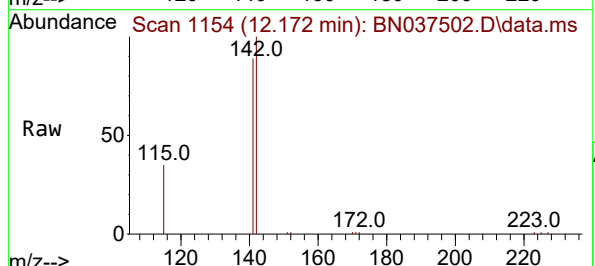
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

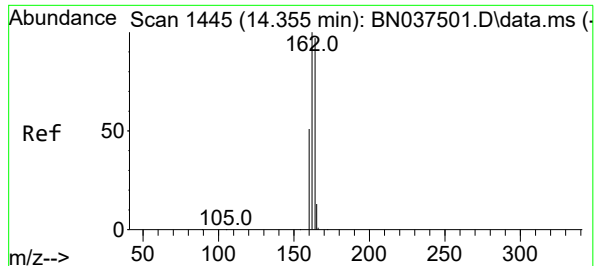
Tgt Ion:152 Resp: 5995
Ion Ratio Lower Upper
152 100
151 21.3 16.8 25.2



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

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

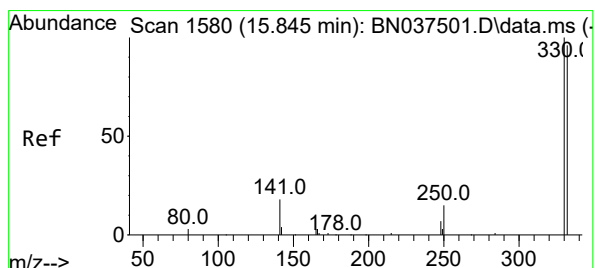
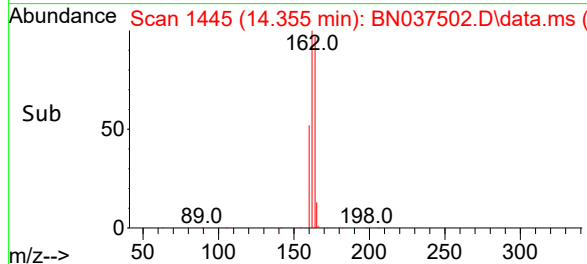
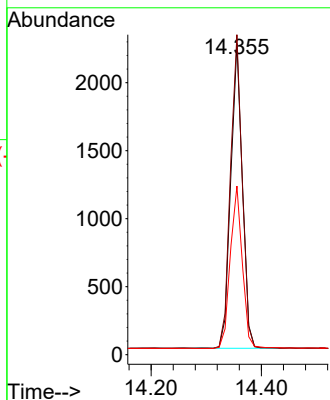
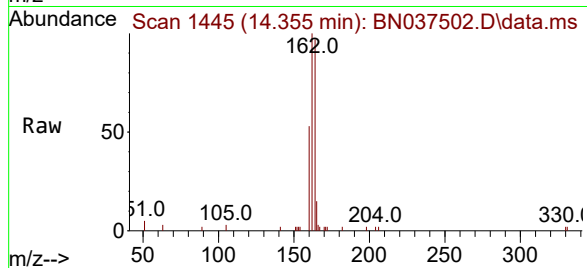




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

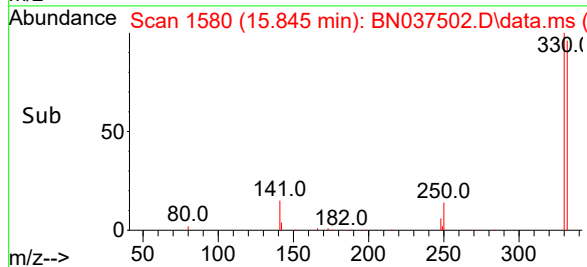
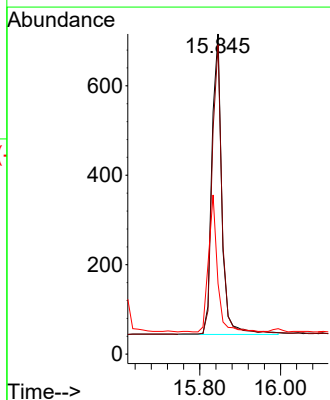
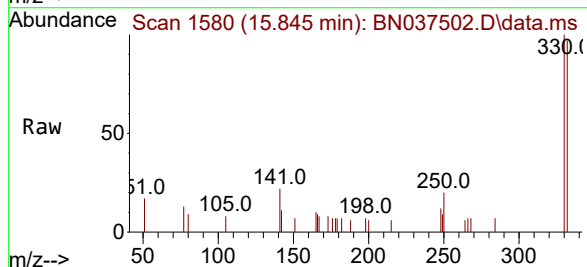
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

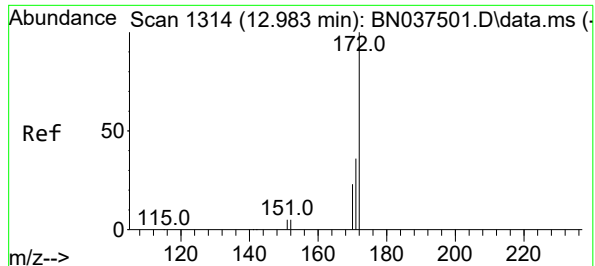
Tgt Ion:164 Resp: 3273
Ion Ratio Lower Upper
164 100
162 102.8 82.0 123.0
160 54.2 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.718 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

Tgt Ion:330 Resp: 1155
Ion Ratio Lower Upper
330 100
332 94.4 76.1 114.1
141 40.8 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 0.778 ng

RT: 12.983 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

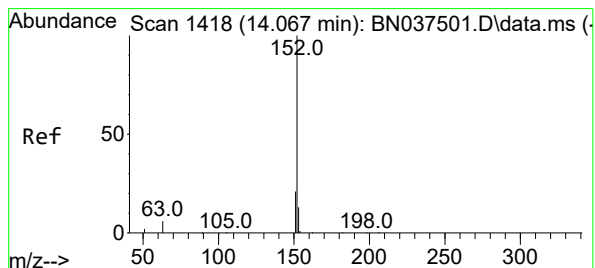
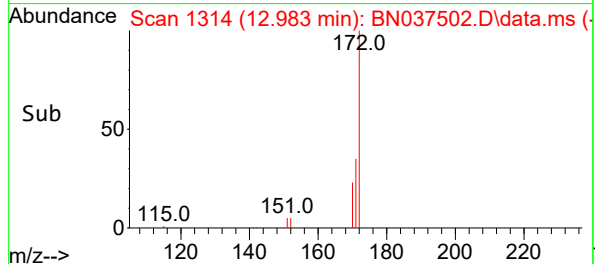
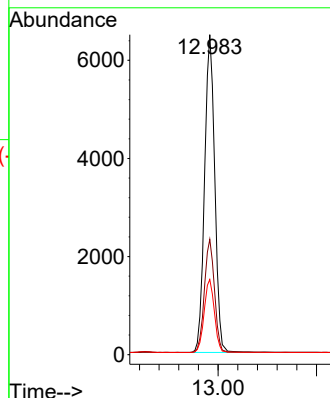
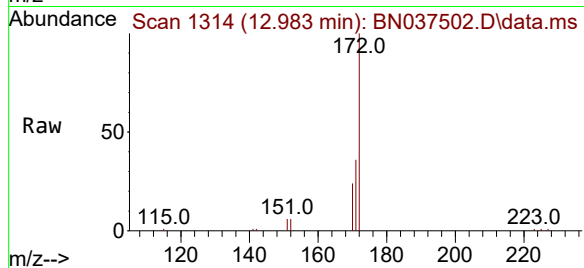
Tgt Ion:172 Resp: 13250

Ion Ratio Lower Upper

172 100

171 36.1 29.4 44.2

170 23.5 19.4 29.0



#16

Acenaphthylene

Concen: 0.752 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

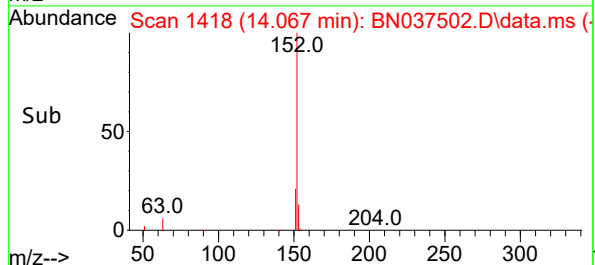
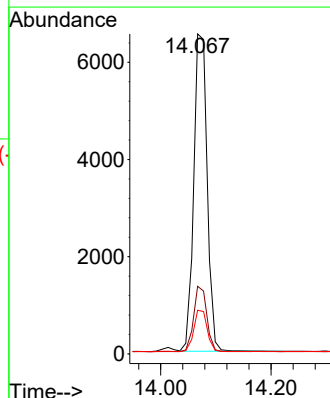
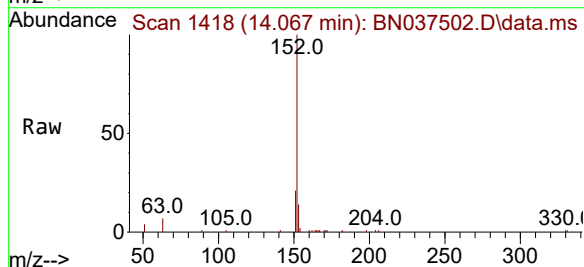
Tgt Ion:152 Resp: 11025

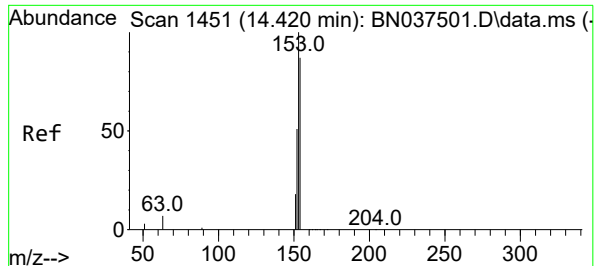
Ion Ratio Lower Upper

152 100

151 20.3 15.9 23.9

153 12.9 10.7 16.1

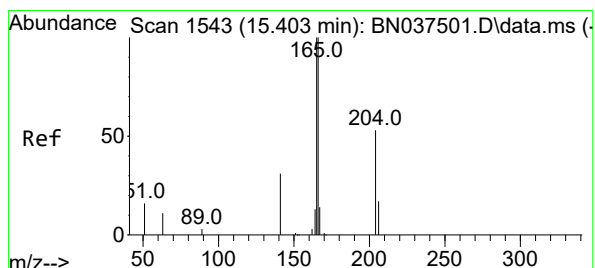
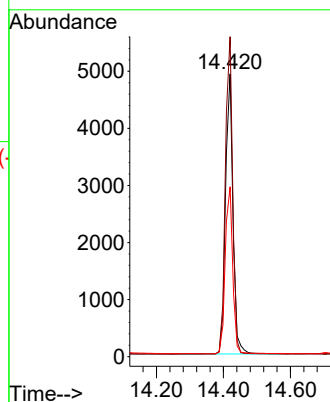
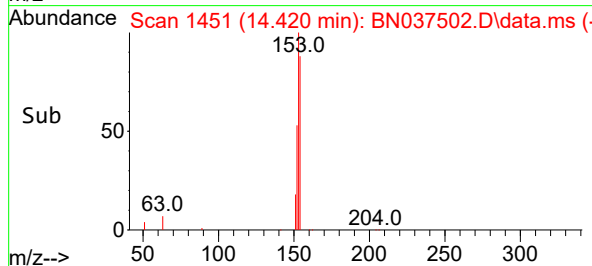
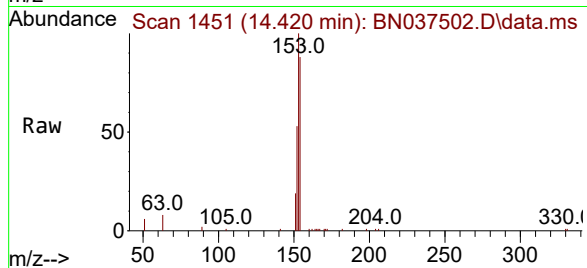




#17
Acenaphthene
Concen: 0.755 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

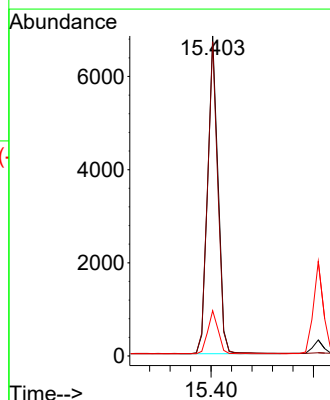
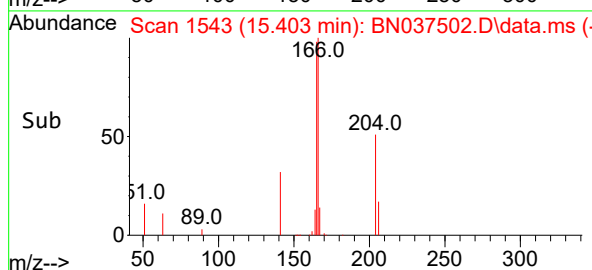
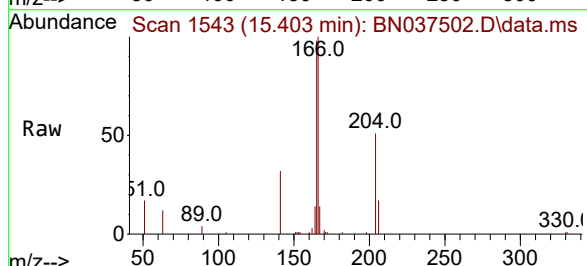
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

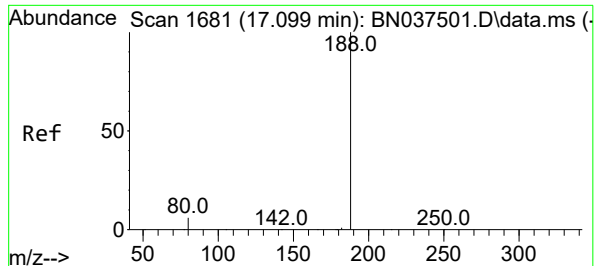
Tgt Ion:154 Resp: 7528
Ion Ratio Lower Upper
154 100
153 111.1 89.2 133.8
152 60.2 48.0 72.0



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

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

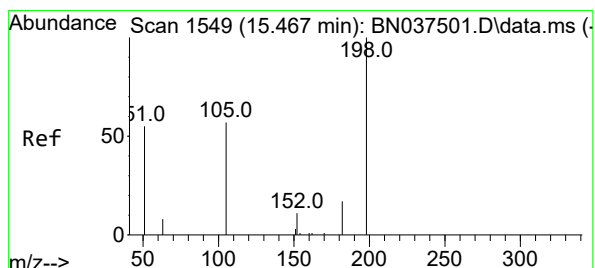
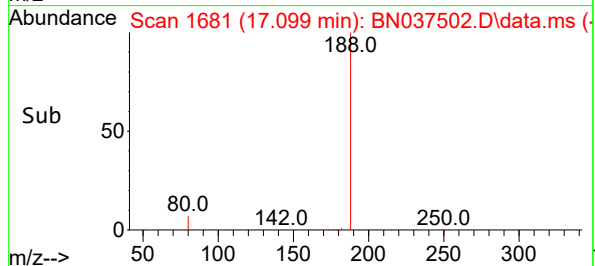
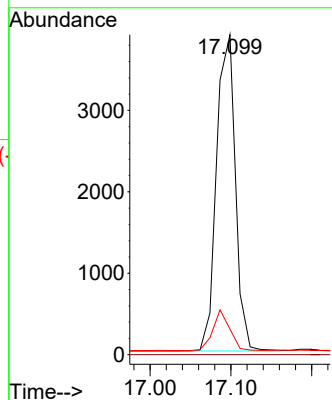
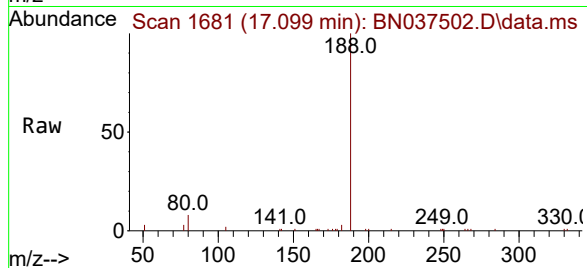
Tgt Ion:188 Resp: 6314

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.750 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

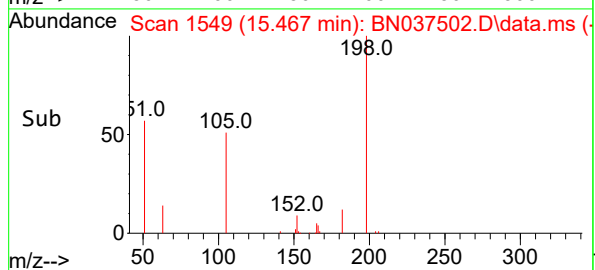
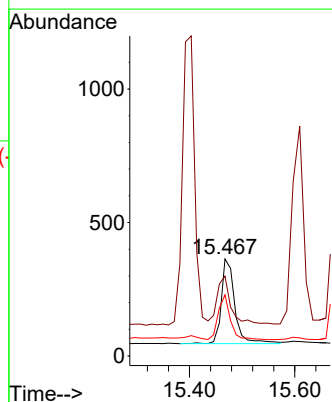
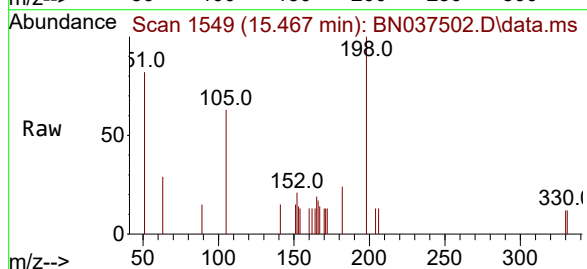
Tgt Ion:198 Resp: 589

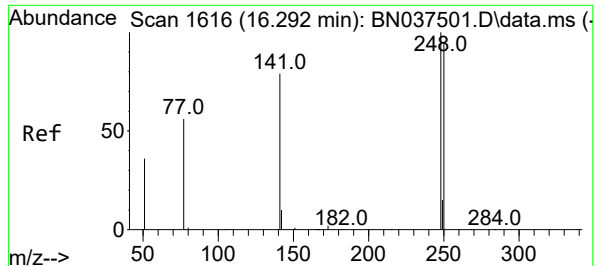
Ion Ratio Lower Upper

198 100

51 82.4 88.5 132.7#

105 63.1 61.2 91.8

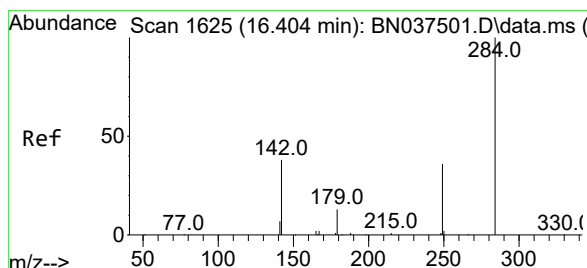
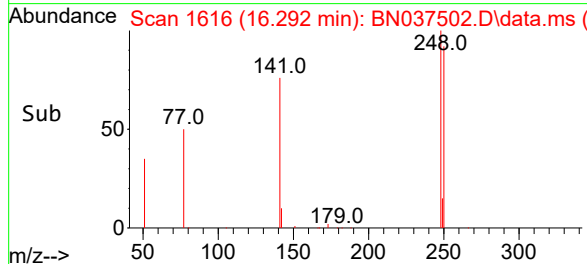
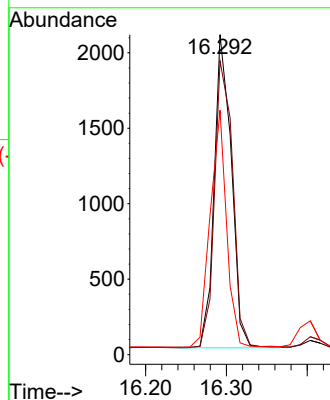
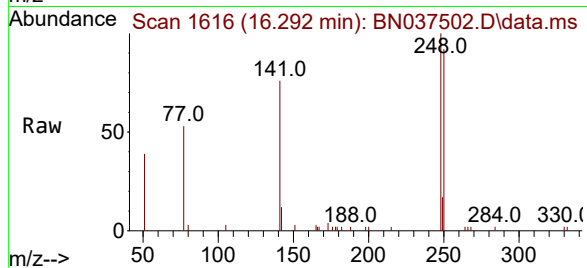




#21
4-Bromophenyl-phenylether
Concen: 0.755 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

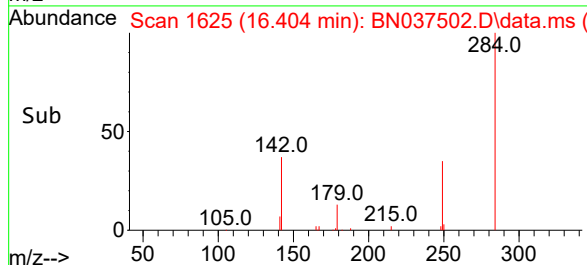
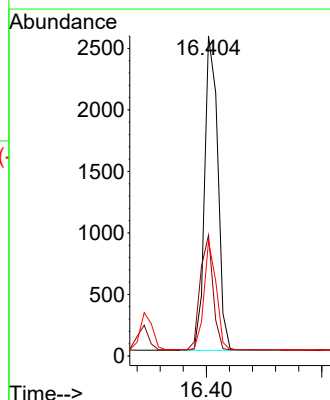
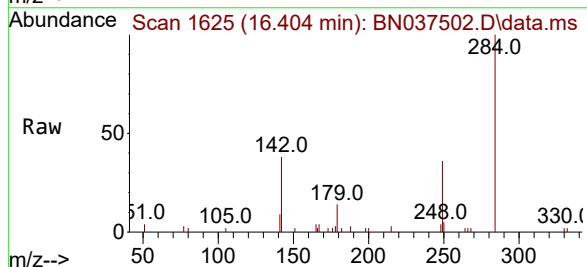
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

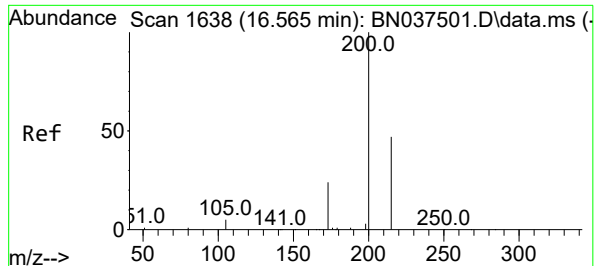
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.8	76.2	114.2
141	76.4	63.9	95.9



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

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





#23

Atrazine

Concen: 0.706 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

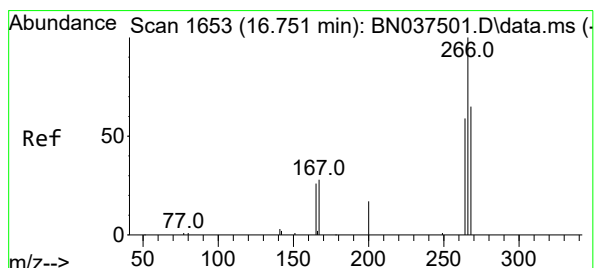
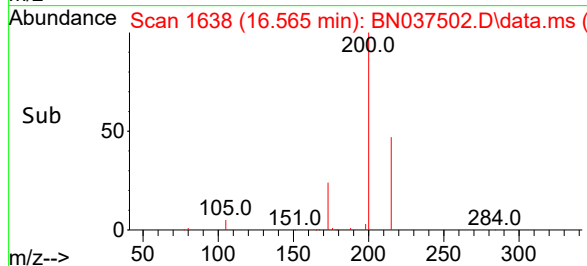
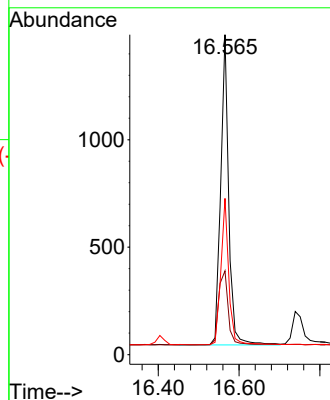
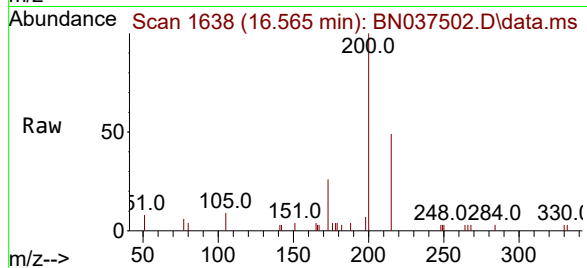
Tgt Ion:200 Resp: 1994

Ion Ratio Lower Upper

200 100

173 26.2 23.2 34.8

215 48.8 40.2 60.4



#24

Pentachlorophenol

Concen: 0.677 ng

RT: 16.751 min Scan# 1653

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

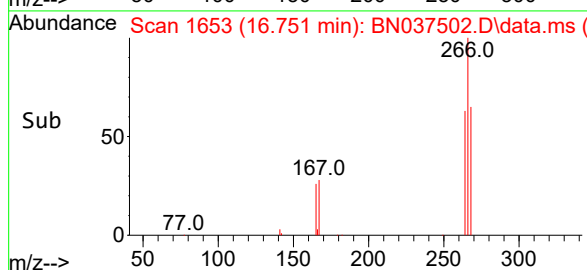
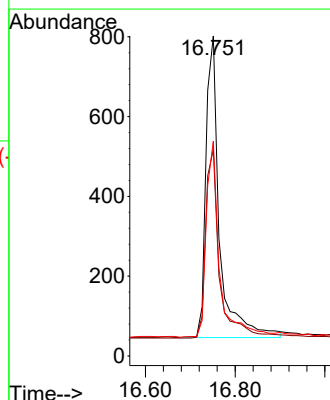
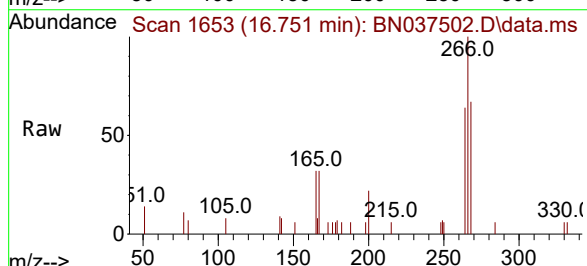
Tgt Ion:266 Resp: 1588

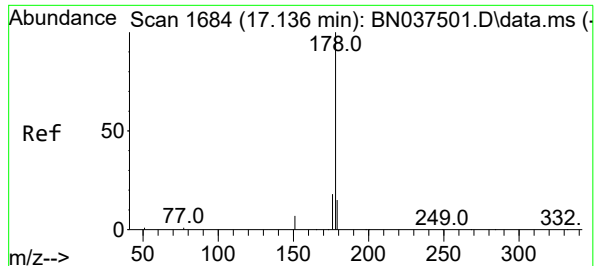
Ion Ratio Lower Upper

266 100

264 63.7 49.3 73.9

268 64.0 51.6 77.4

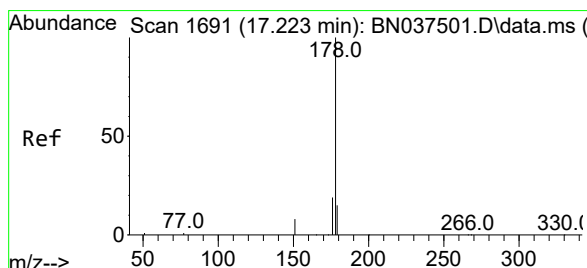
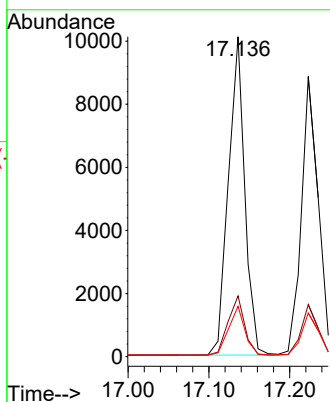
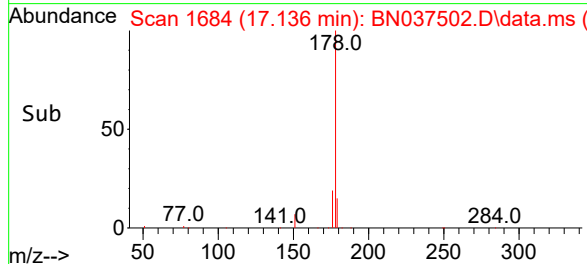
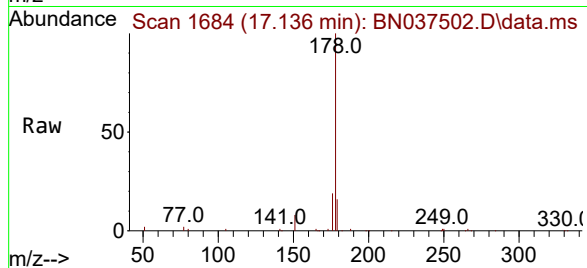




#25
Phenanthrene
Concen: 0.754 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

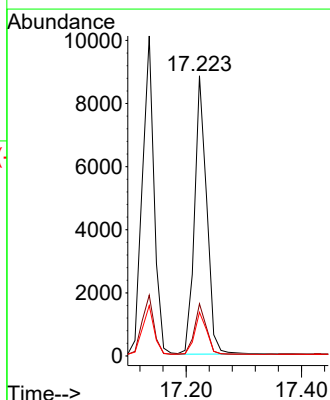
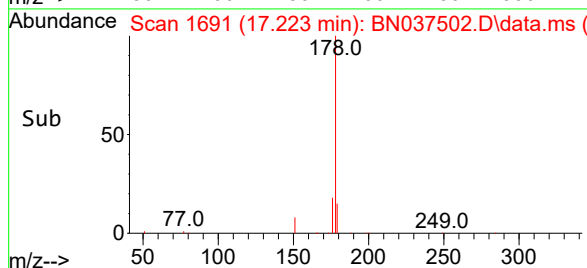
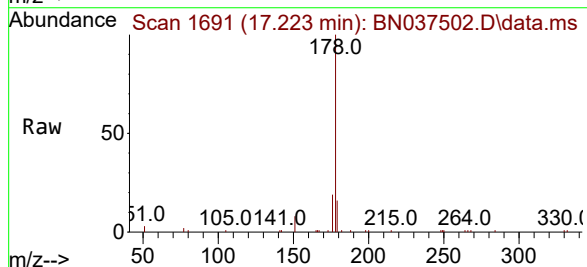
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

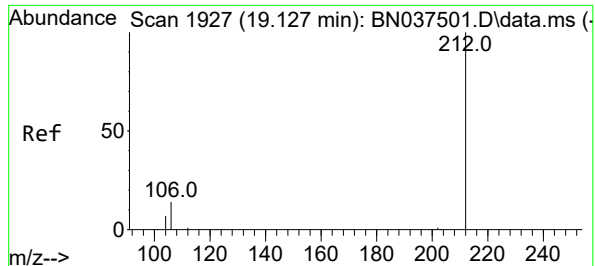
Tgt Ion:178 Resp: 14261
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.2 18.2



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

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





#27

Fluoranthene-d10

Concen: 0.701 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

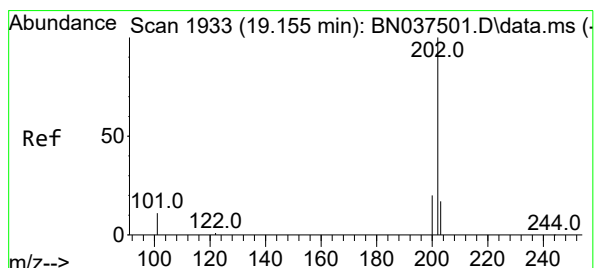
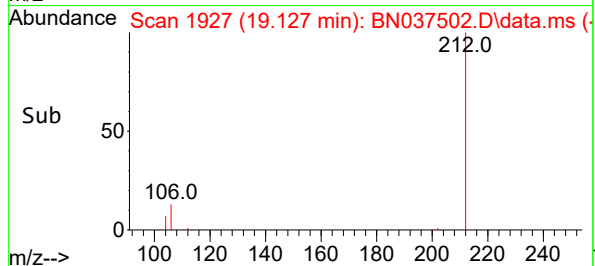
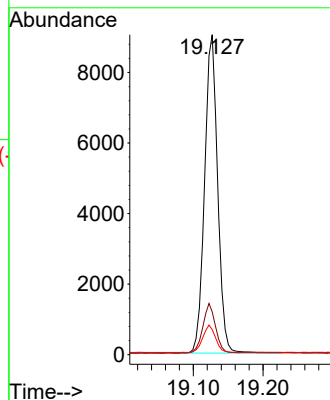
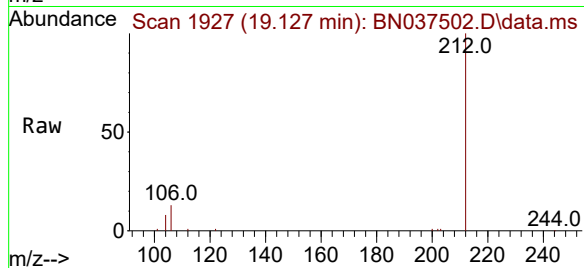
Tgt Ion:212 Resp: 11723

Ion Ratio Lower Upper

212 100

106 15.0 12.2 18.4

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 0.735 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

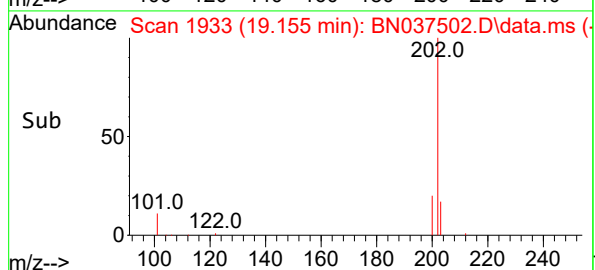
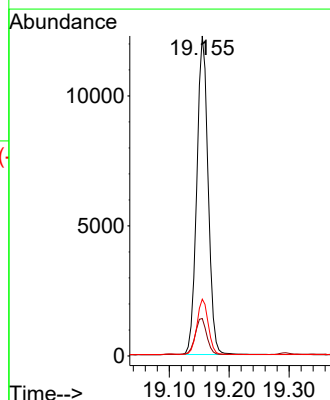
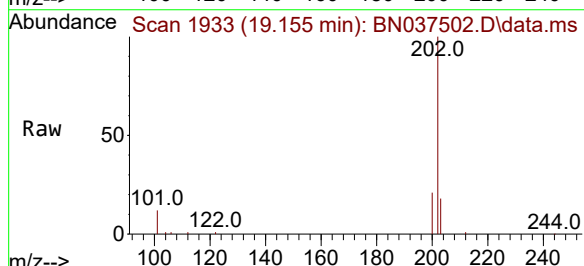
Tgt Ion:202 Resp: 16043

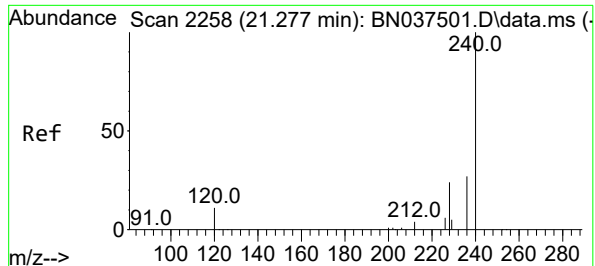
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

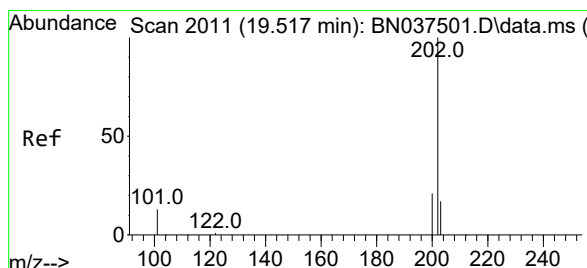
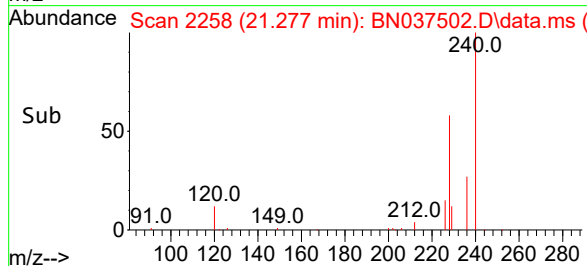
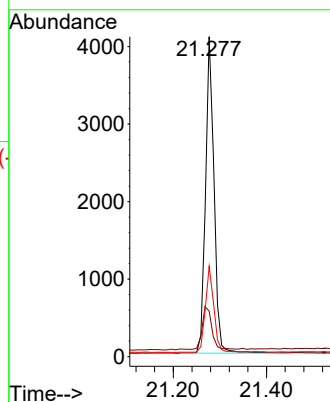
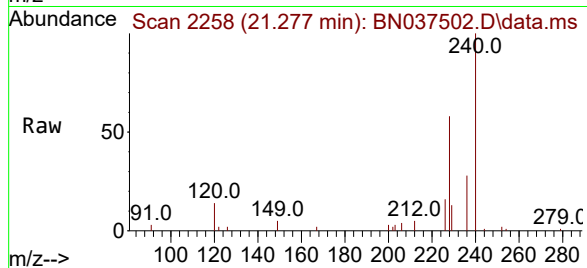
Tgt Ion:240 Resp: 5167

Ion Ratio Lower Upper

240 100

120 14.2 10.7 16.1

236 28.3 22.6 33.8



#30

Pyrene

Concen: 0.769 ng

RT: 19.517 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

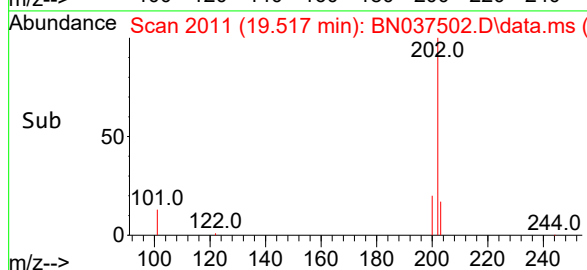
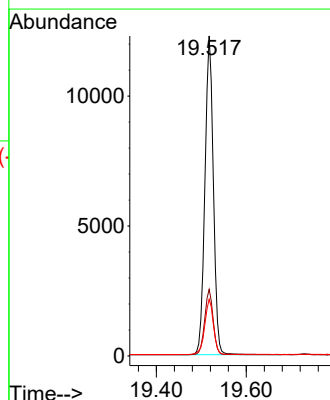
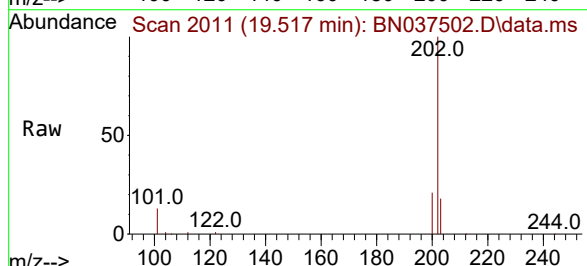
Tgt Ion:202 Resp: 16008

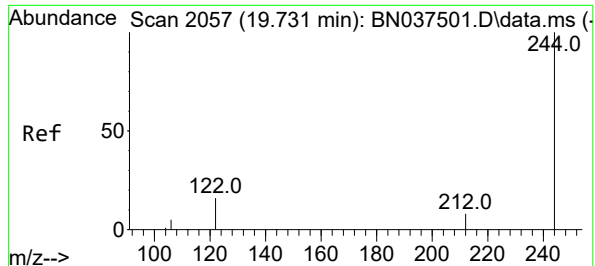
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.8 14.3 21.5

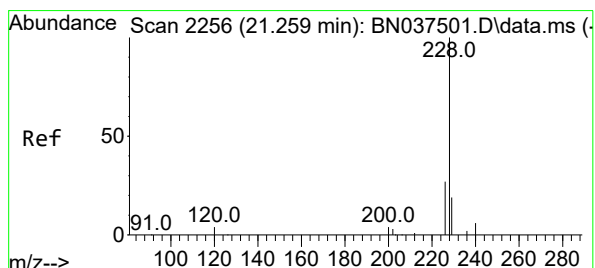
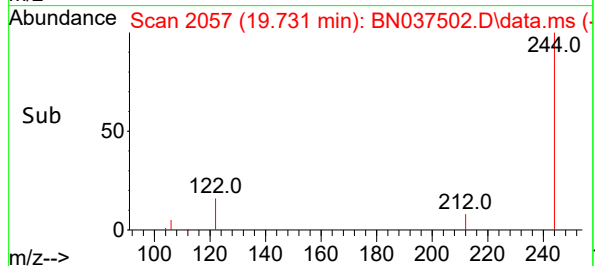
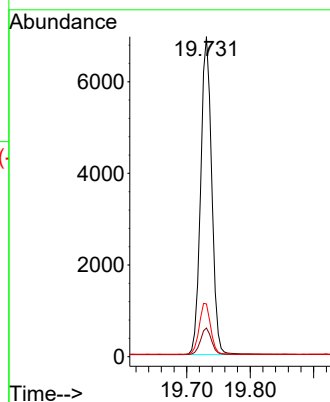
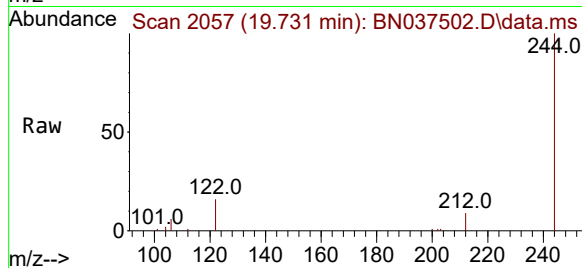




#31
Terphenyl-d14
Concen: 0.754 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037502.D
Acq: 15 Jul 2025 14:25

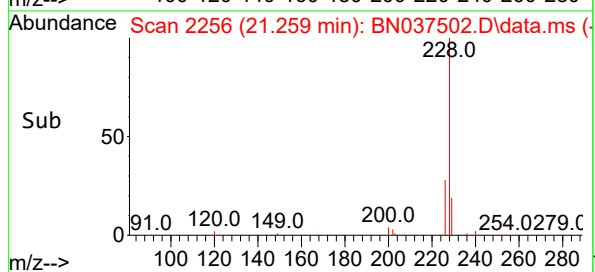
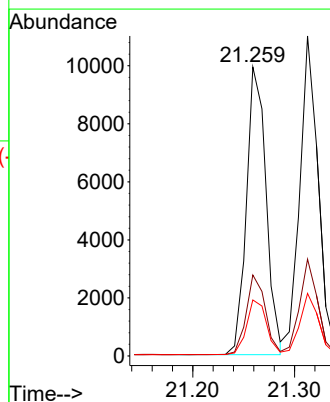
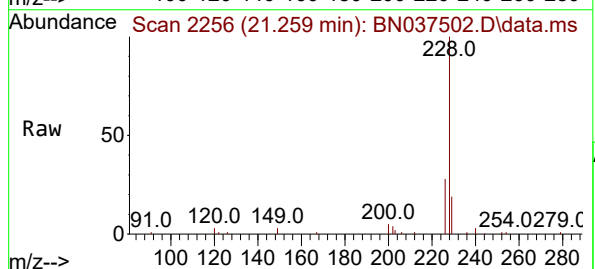
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

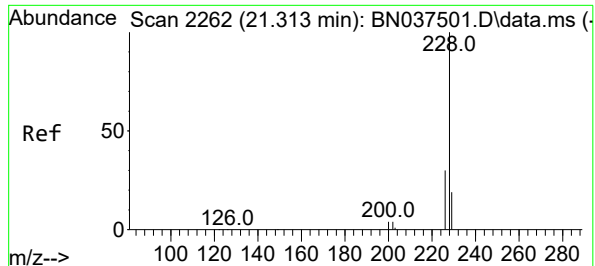
Tgt Ion:244 Resp: 8376
Ion Ratio Lower Upper
244 100
212 8.9 7.4 11.2
122 16.5 13.6 20.4



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

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





#33

Chrysene

Concen: 0.745 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

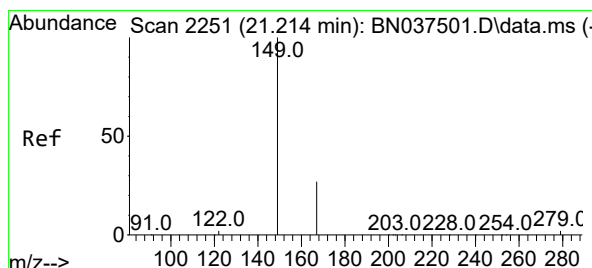
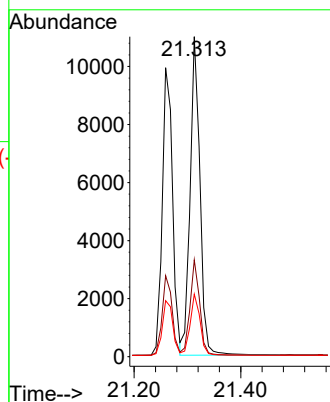
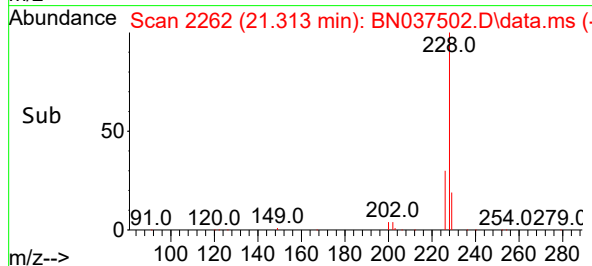
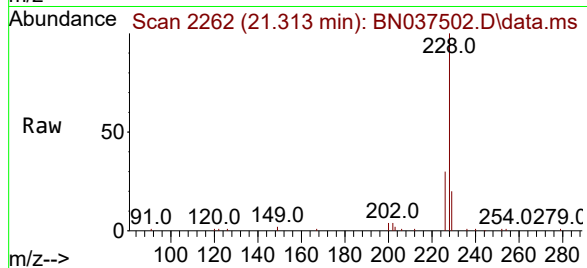
Tgt Ion:228 Resp: 14034

Ion Ratio Lower Upper

228 100

226 30.3 24.2 36.4

229 19.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.683 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

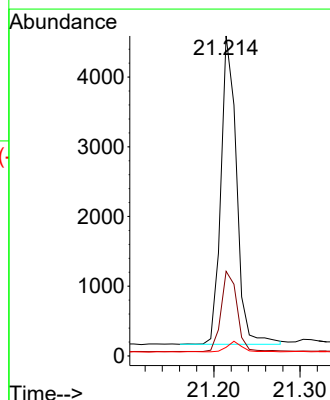
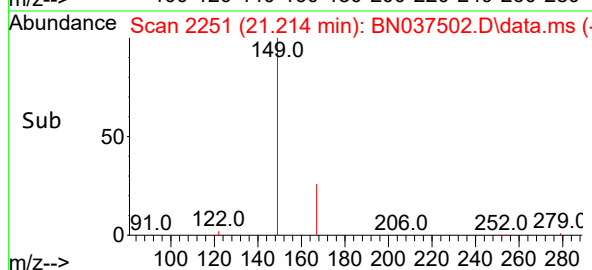
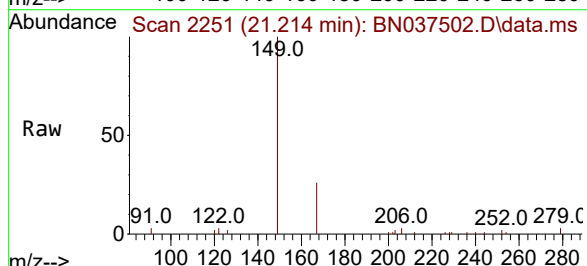
Tgt Ion:149 Resp: 5562

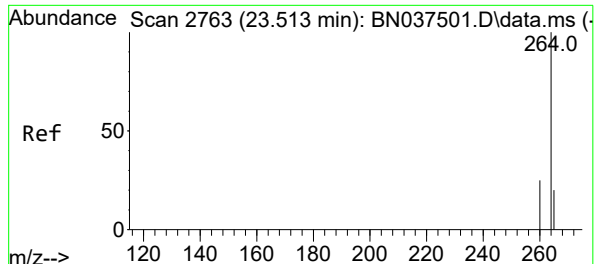
Ion Ratio Lower Upper

149 100

167 26.4 21.8 32.8

279 3.4 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037502.D

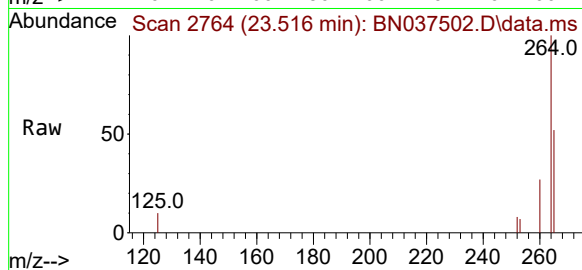
Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



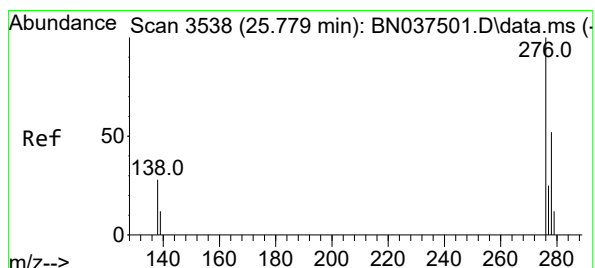
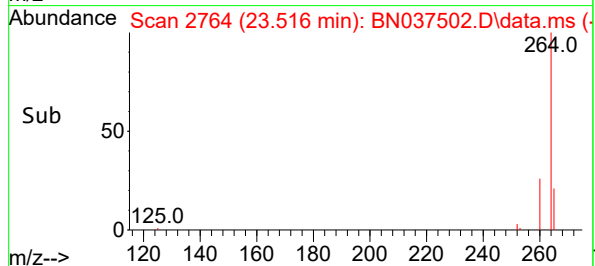
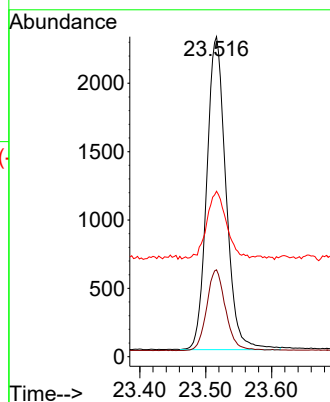
Tgt Ion:264 Resp: 4636

Ion Ratio Lower Upper

264 100

260 27.2 21.2 31.8

265 51.7 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.749 ng

RT: 25.779 min Scan# 3538

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

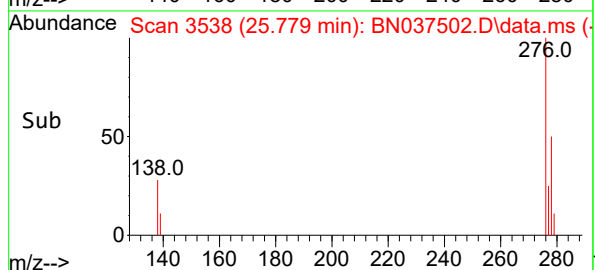
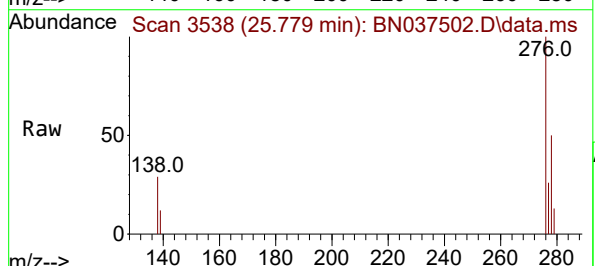
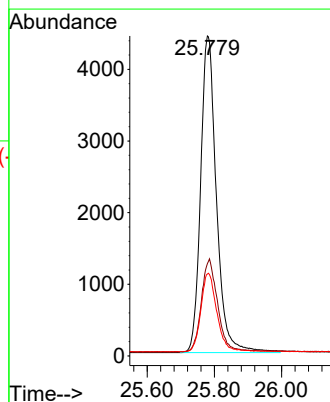
Tgt Ion:276 Resp: 14458

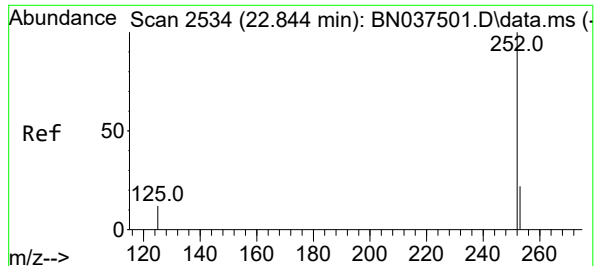
Ion Ratio Lower Upper

276 100

138 30.0 24.0 36.0

277 25.0 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.757 ng

RT: 22.844 min Scan# 2534

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

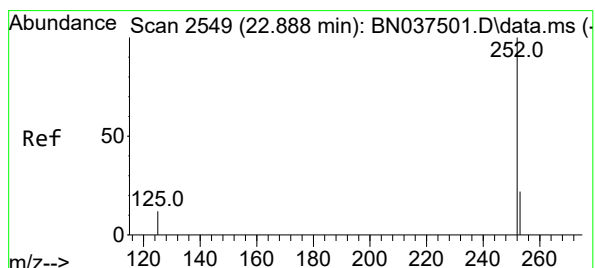
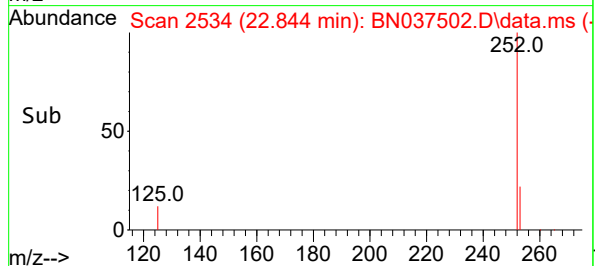
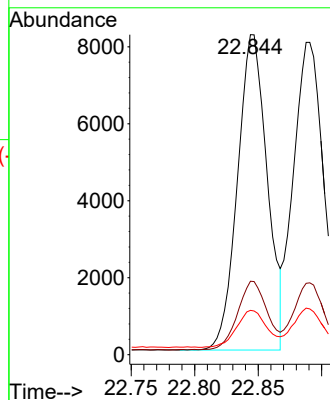
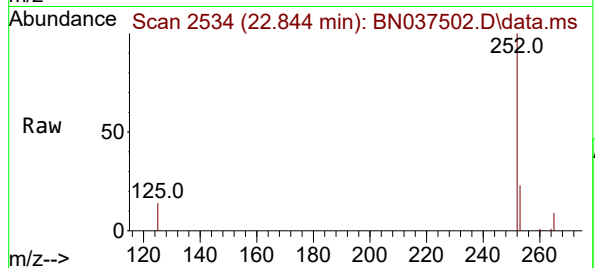
Tgt Ion:252 Resp: 13315

Ion Ratio Lower Upper

252 100

253 23.0 19.5 29.3

125 13.9 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.751 ng

RT: 22.888 min Scan# 2549

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

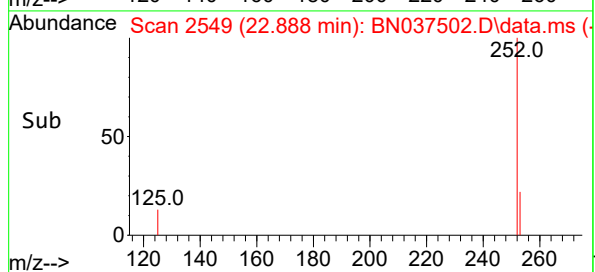
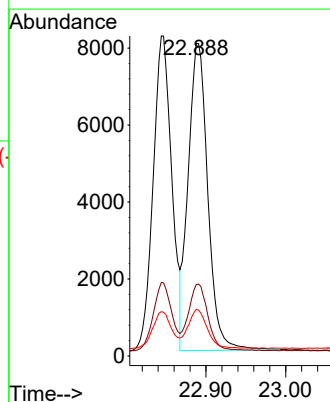
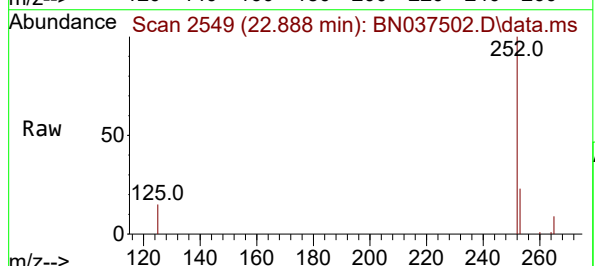
Tgt Ion:252 Resp: 13634

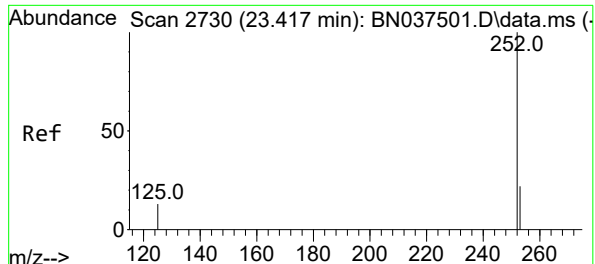
Ion Ratio Lower Upper

252 100

253 22.9 19.5 29.3

125 14.9 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.743 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

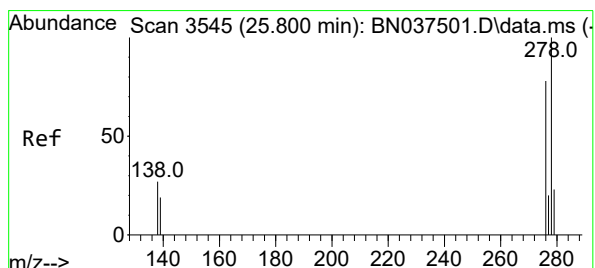
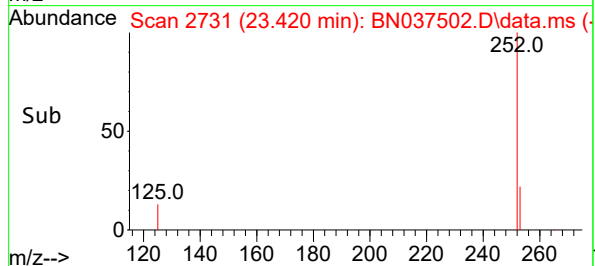
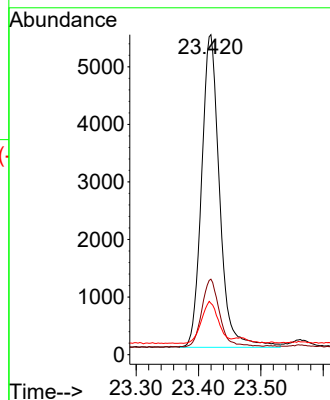
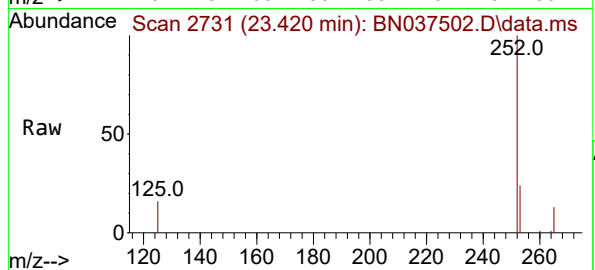
Tgt Ion:252 Resp: 10903

Ion Ratio Lower Upper

252 100

253 23.6 19.9 29.9

125 16.0 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.745 ng

RT: 25.800 min Scan# 3545

Delta R.T. 0.000 min

Lab File: BN037502.D

Acq: 15 Jul 2025 14:25

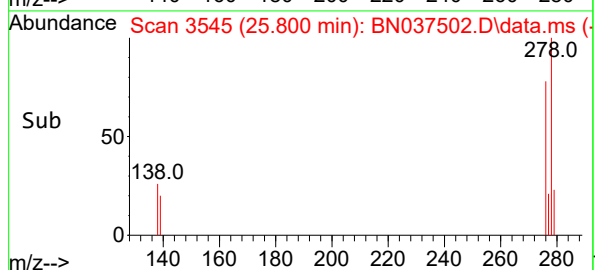
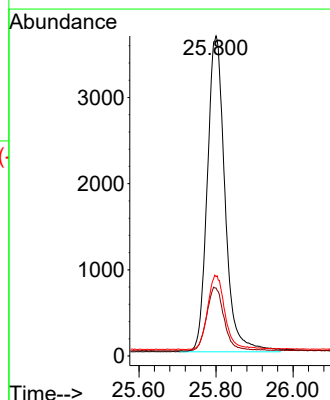
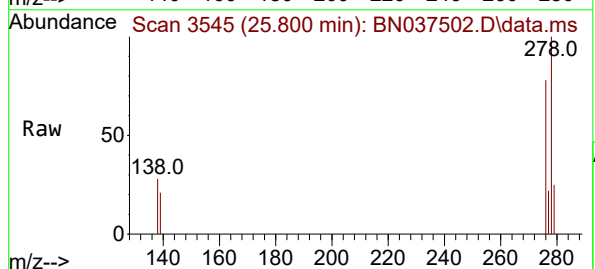
Tgt Ion:278 Resp: 11648

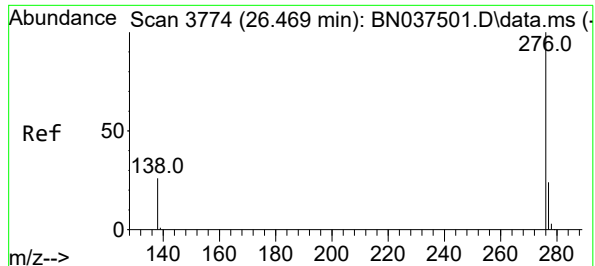
Ion Ratio Lower Upper

278 100

139 21.3 17.5 26.3

279 24.8 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.743 ng

RT: 26.472 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037502.D

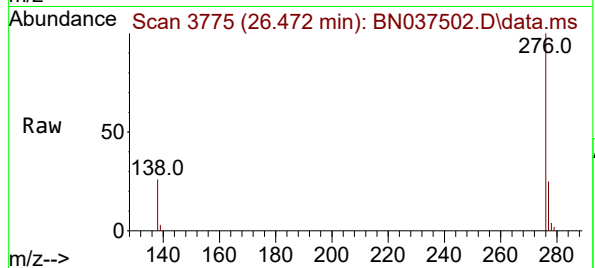
Acq: 15 Jul 2025 14:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



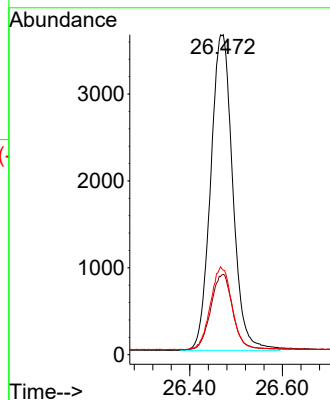
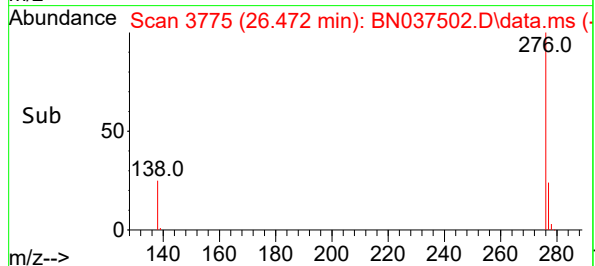
Tgt Ion:276 Resp: 12022

Ion Ratio Lower Upper

276 100

277 25.1 20.9 31.3

138 26.5 22.6 33.8



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

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

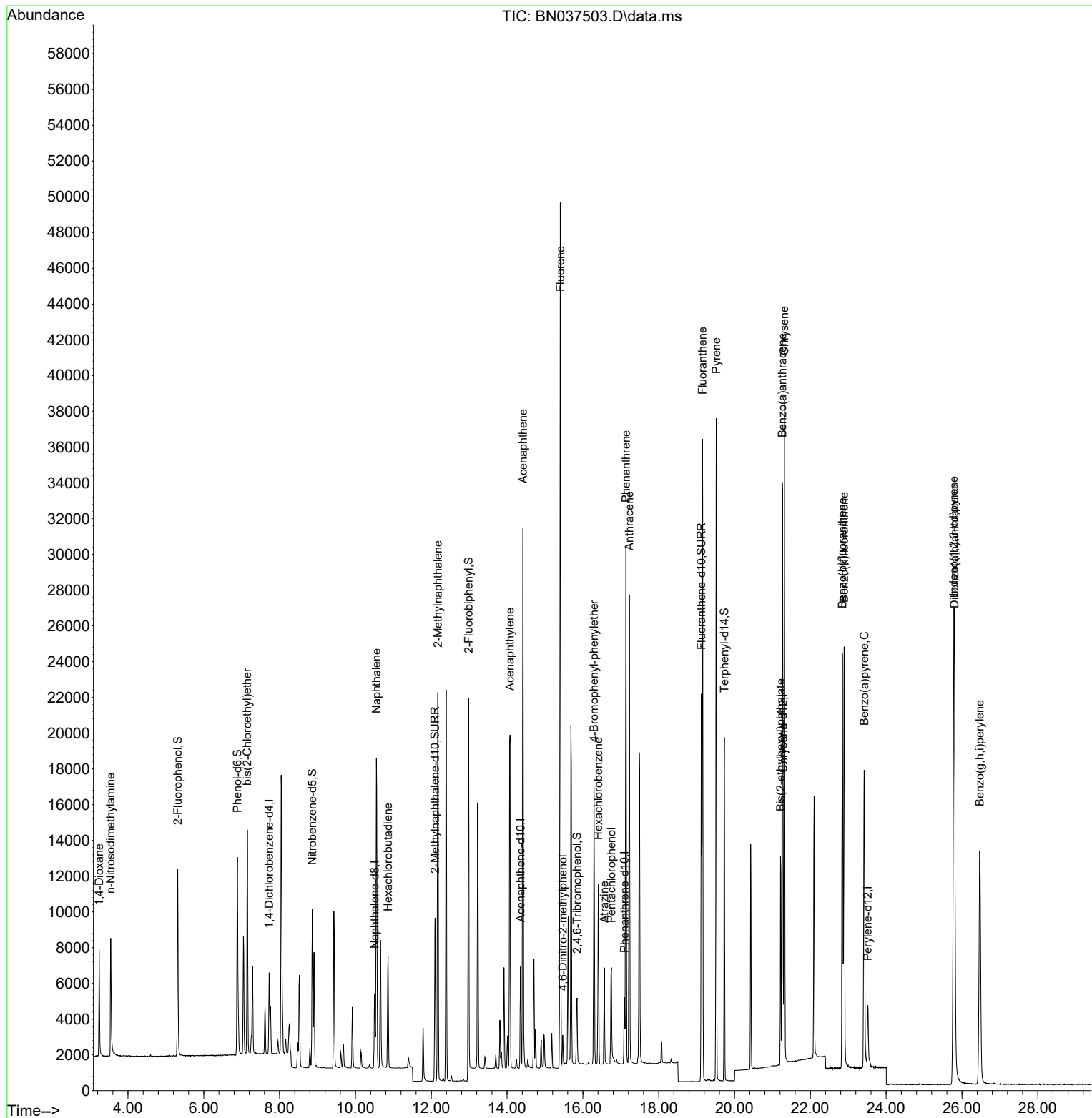
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2129	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5384	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3005	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	5542	0.400	ng	0.00
29) Chrysene-d12	21.277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

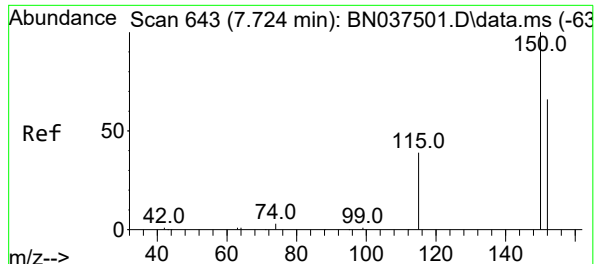
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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

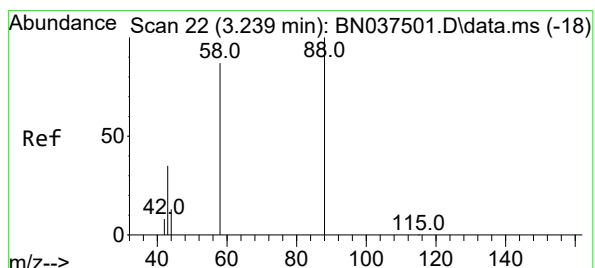
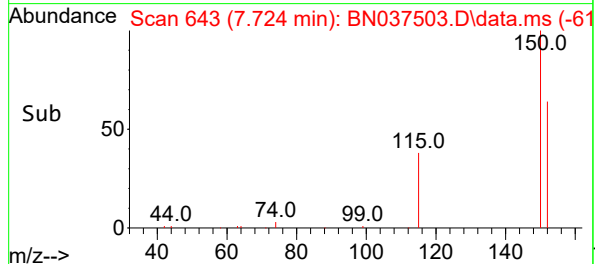
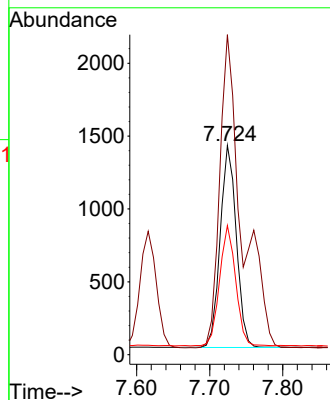
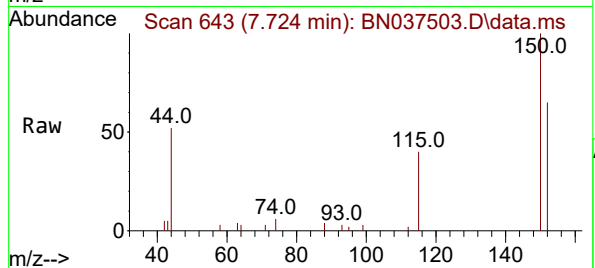




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

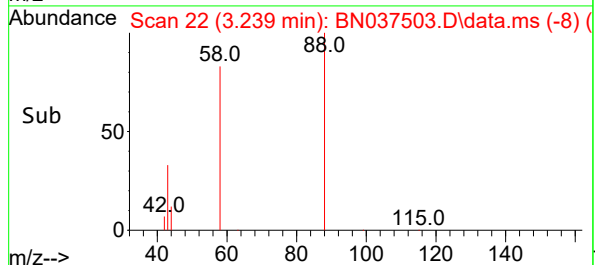
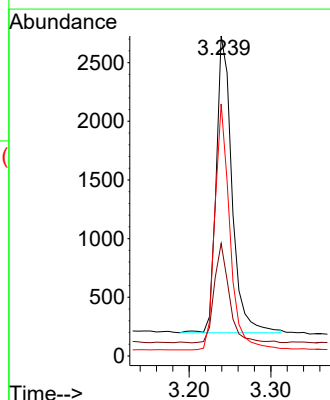
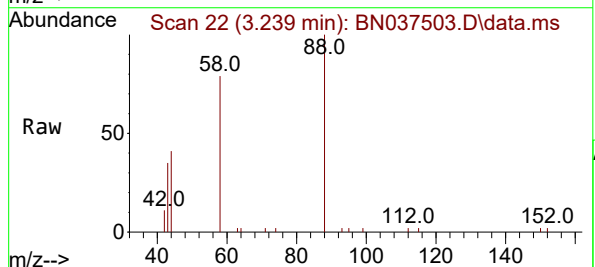
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

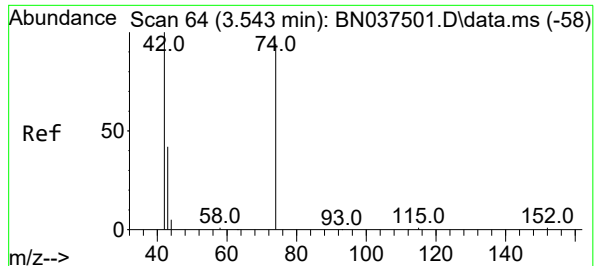
Tgt Ion:152 Resp: 2129
Ion Ratio Lower Upper
152 100
150 152.9 119.8 179.8
115 61.7 49.1 73.7



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

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

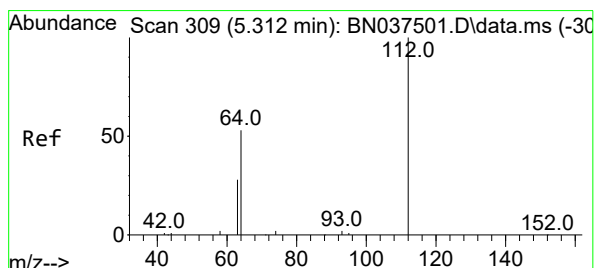
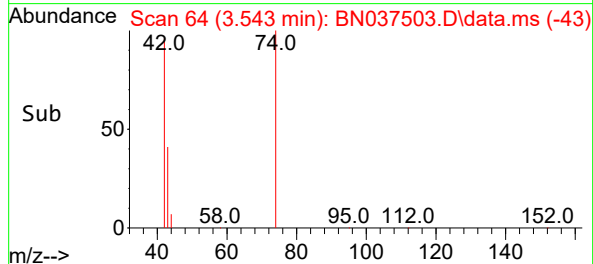
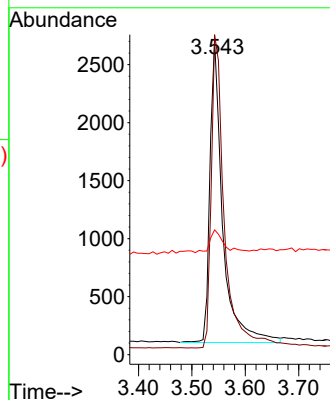
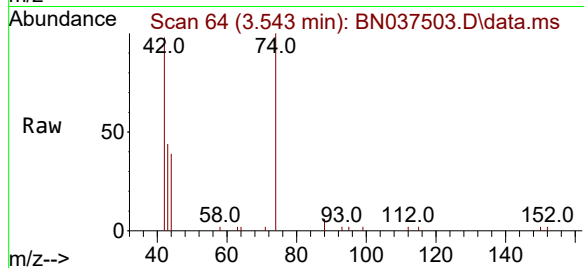




#3
n-Nitrosodimethylamine
Concen: 1.681 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

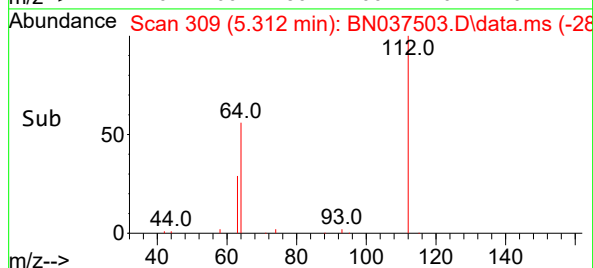
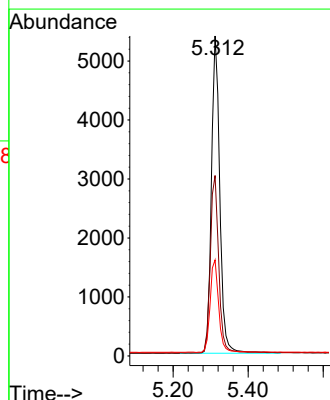
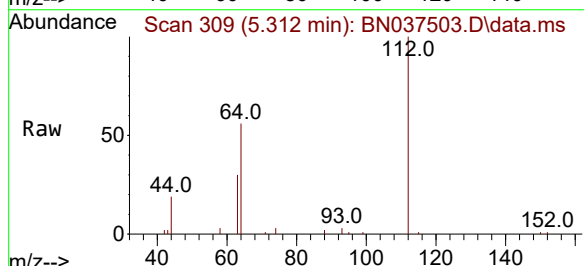
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

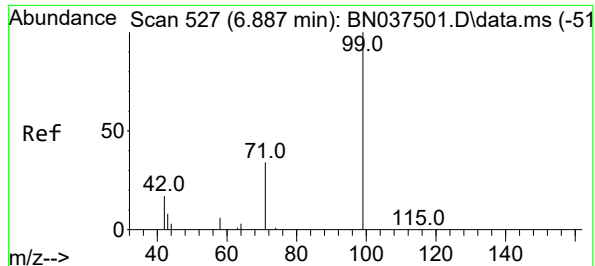
Tgt Ion: 42 Resp: 4327
Ion Ratio Lower Upper
42 100
74 106.7 91.8 137.6
44 8.3 15.0 22.6#



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

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

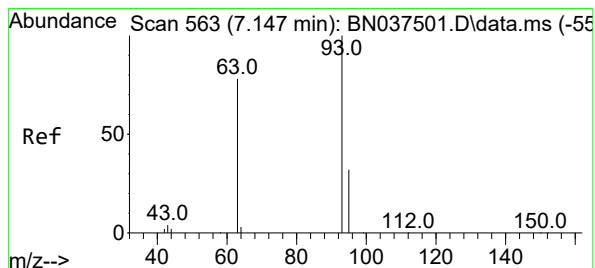
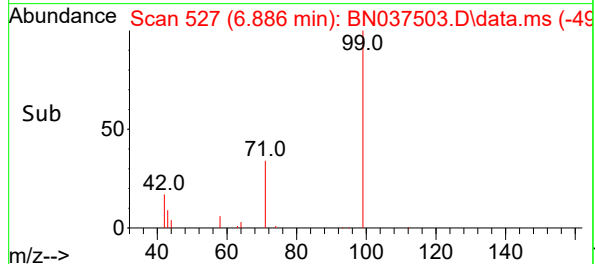
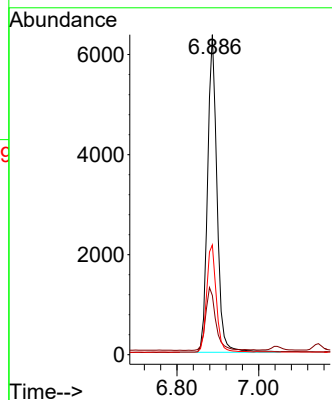
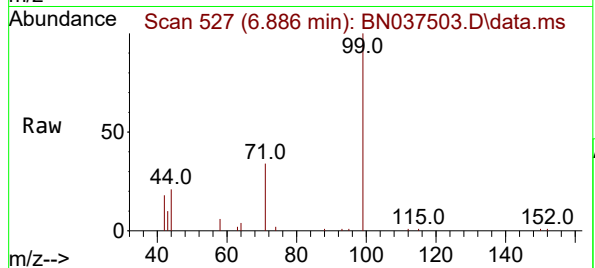




#5
Phenol-d6
Concen: 1.548 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

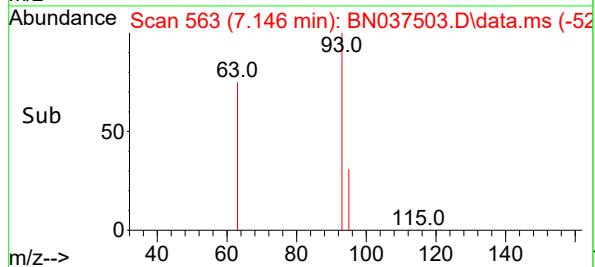
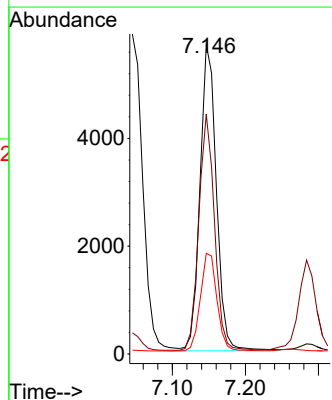
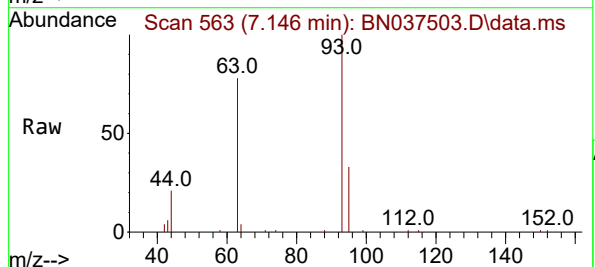
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

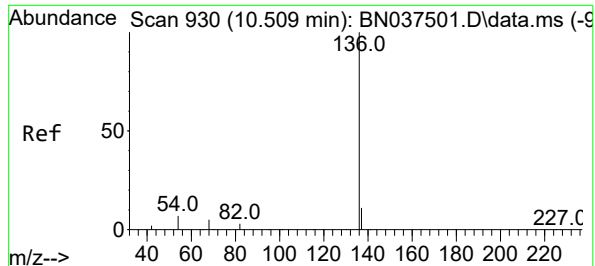
Tgt Ion: 99 Resp: 10225
Ion Ratio Lower Upper
99 100
42 21.6 17.1 25.7
71 34.7 27.8 41.8



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

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

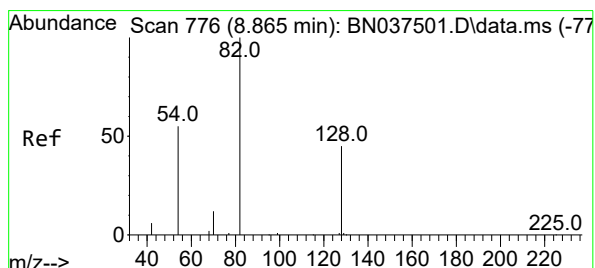
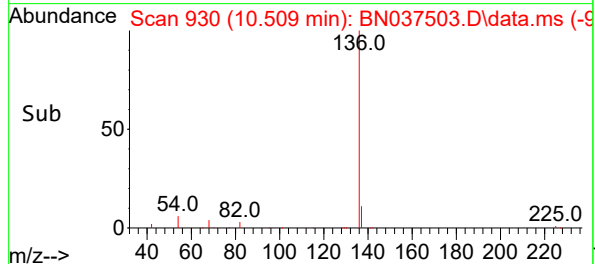
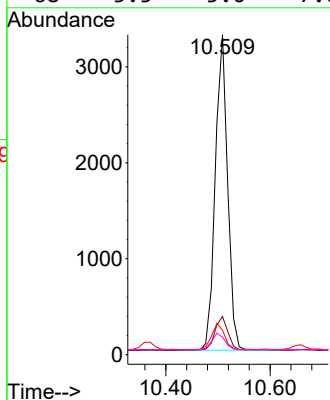
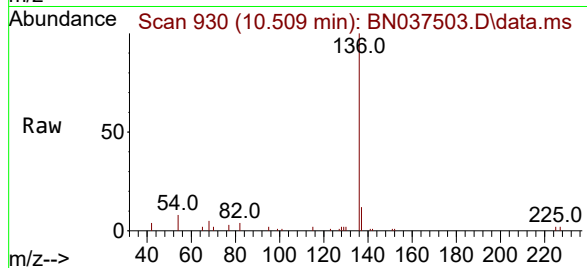




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

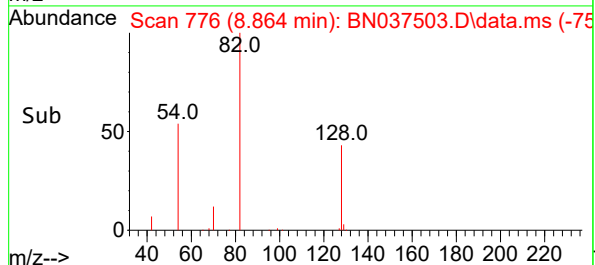
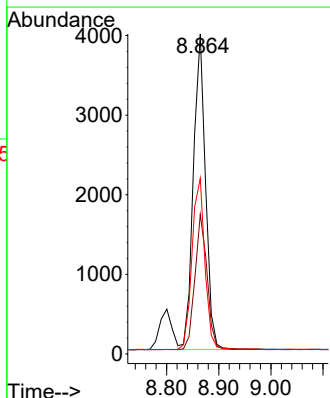
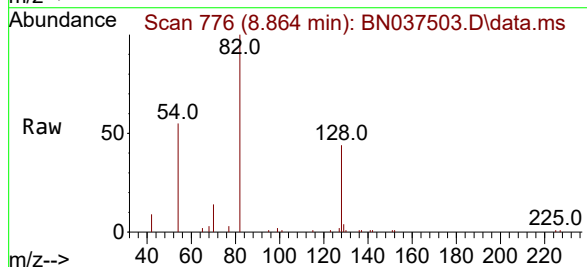
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

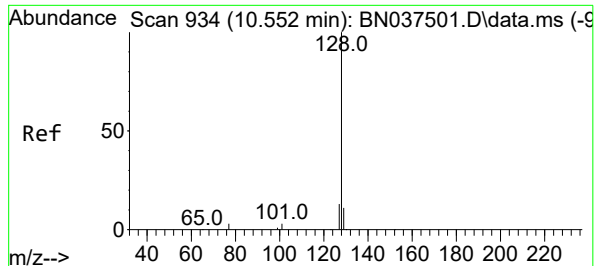
Tgt Ion:	136	Resp:	5384
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	7.7	6.6	9.8
68	5.5	5.0	7.6



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

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





#9

Naphthalene

Concen: 1.636 ng

RT: 10.551 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

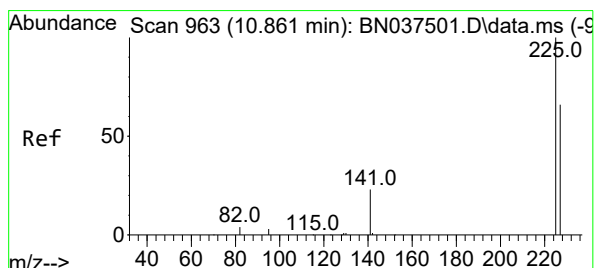
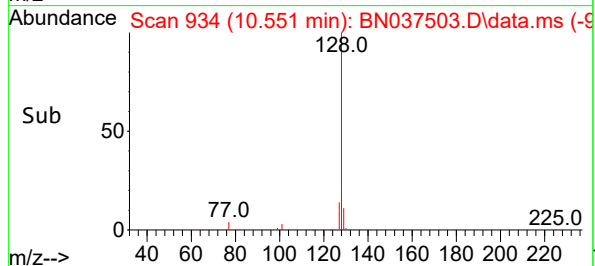
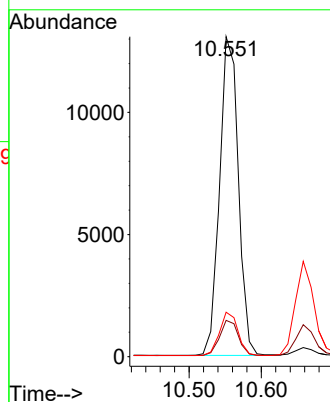
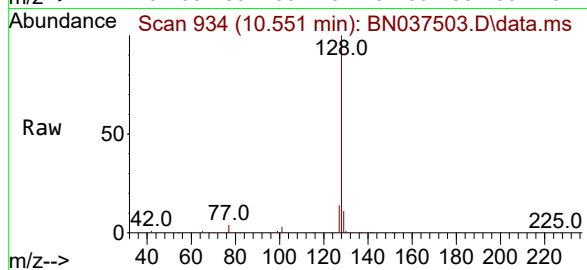
Tgt Ion:128 Resp: 23495

Ion Ratio Lower Upper

128 100

129 11.3 9.7 14.5

127 13.9 11.5 17.3



#10

Hexachlorobutadiene

Concen: 1.663 ng

RT: 10.861 min Scan# 963

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

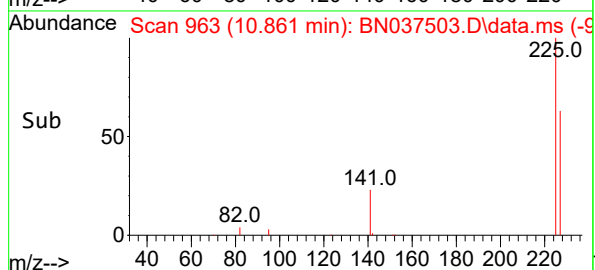
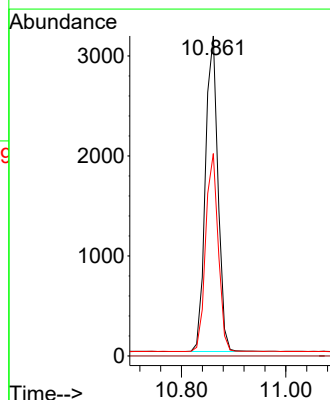
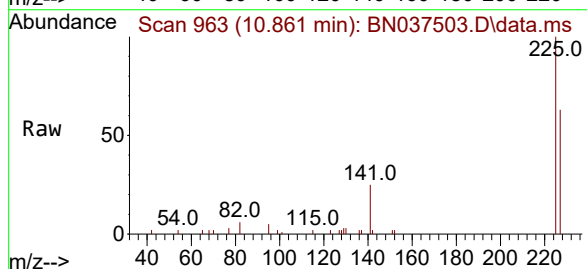
Tgt Ion:225 Resp: 5277

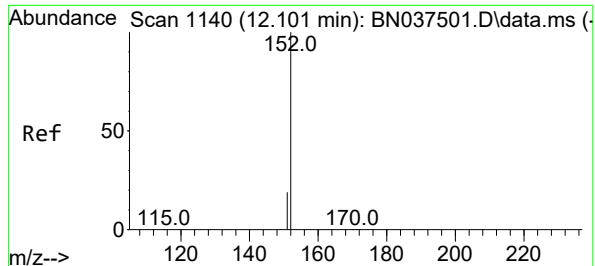
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.4 51.0 76.4

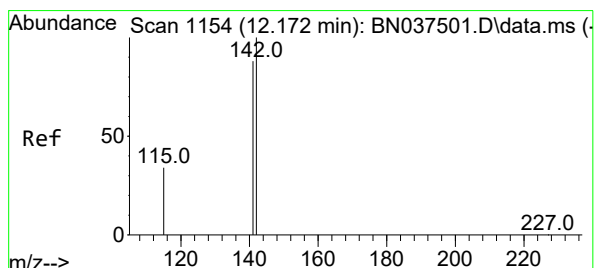
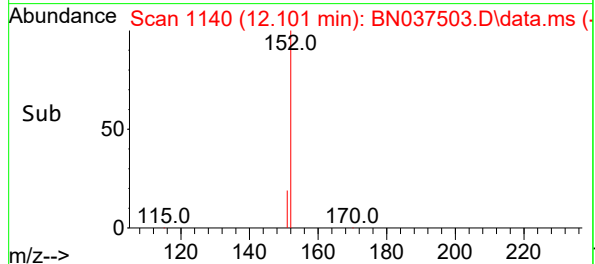
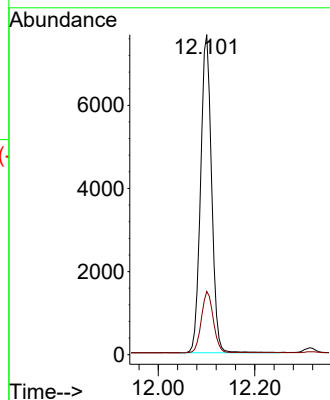
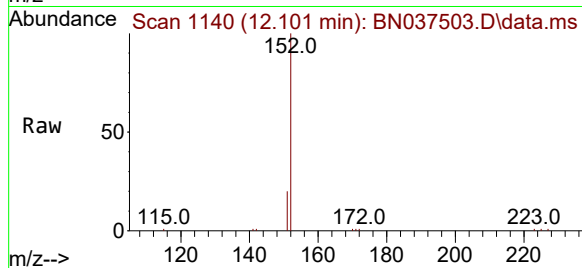




#11
2-Methylnaphthalene-d10
Concen: 1.566 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

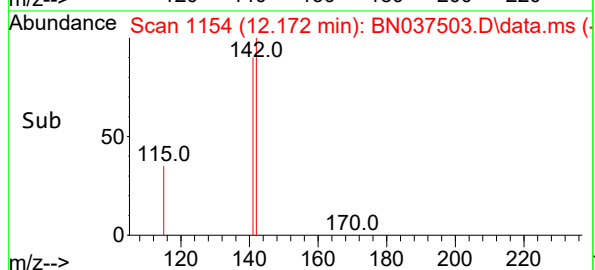
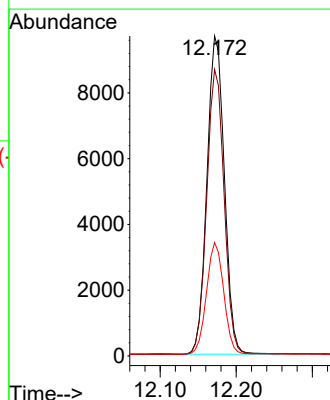
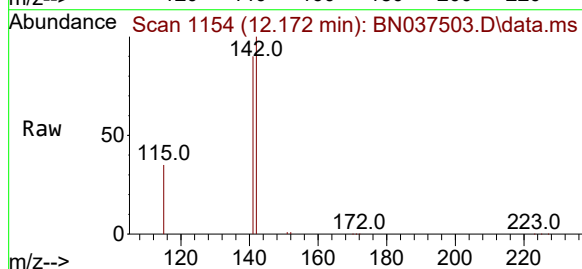
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

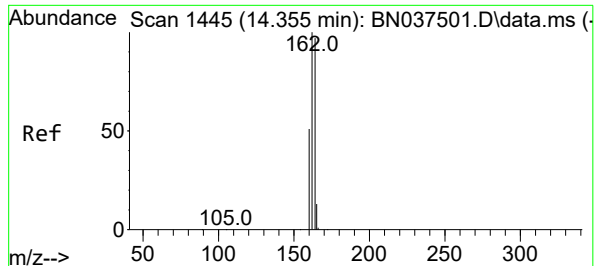
Tgt Ion:152 Resp: 12096
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



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

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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.355 min Scan# 1445

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

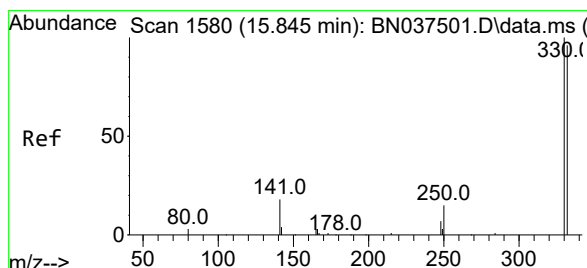
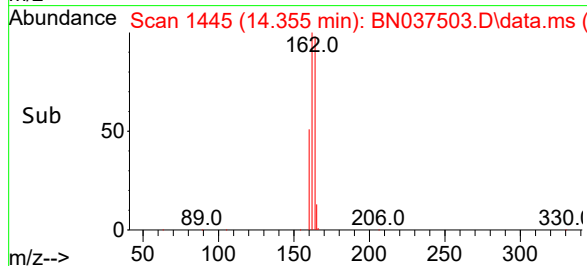
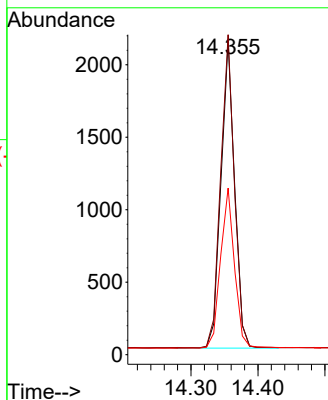
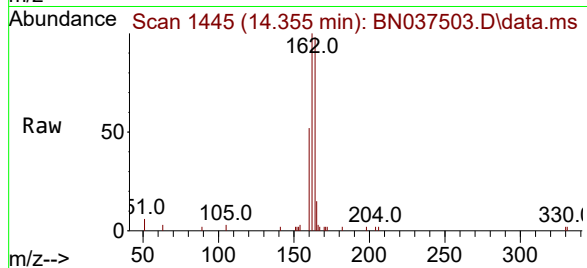
Tgt Ion:164 Resp: 3005

Ion Ratio Lower Upper

164 100

162 102.0 82.0 123.0

160 53.1 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 1.578 ng

RT: 15.845 min Scan# 1580

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

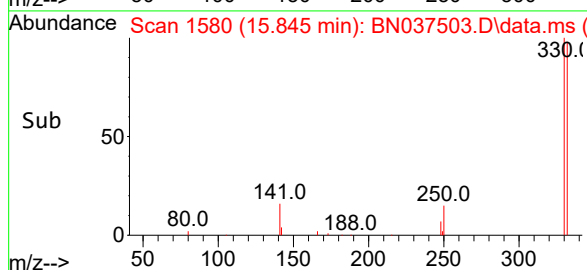
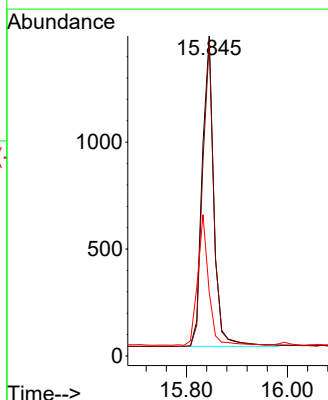
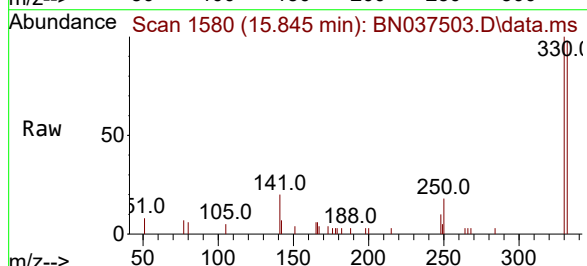
Tgt Ion:330 Resp: 2331

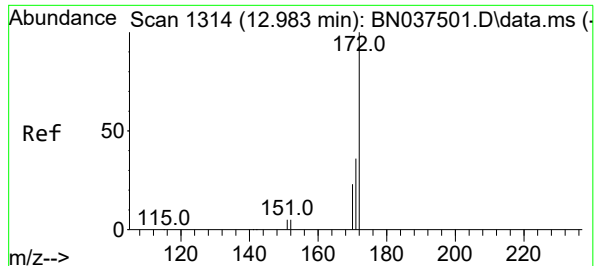
Ion Ratio Lower Upper

330 100

332 96.1 76.1 114.1

141 40.0 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 1.751 ng

RT: 12.983 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

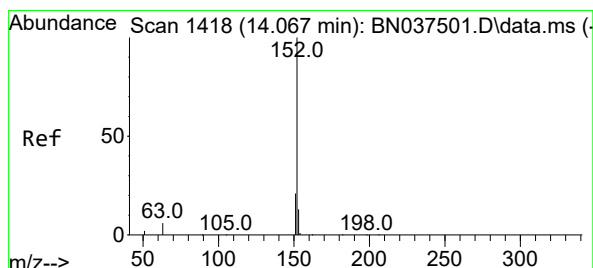
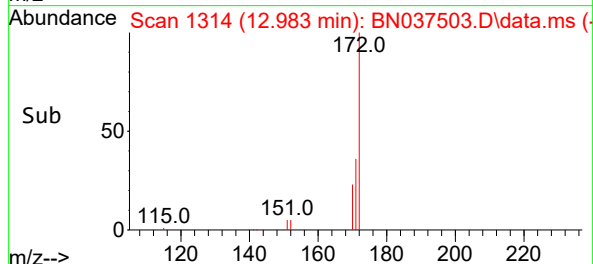
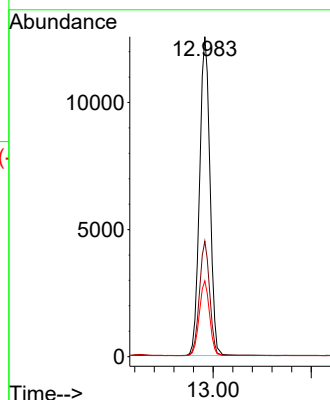
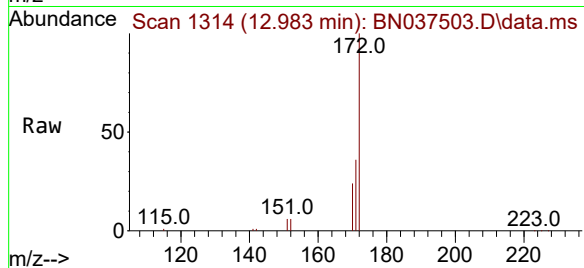
Tgt Ion:172 Resp: 27369

Ion Ratio Lower Upper

172 100

171 36.1 29.4 44.2

170 23.7 19.4 29.0



#16

Acenaphthylene

Concen: 1.635 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.011 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

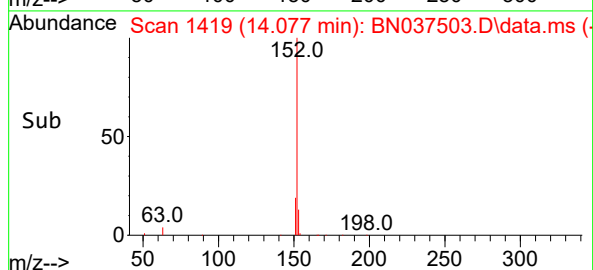
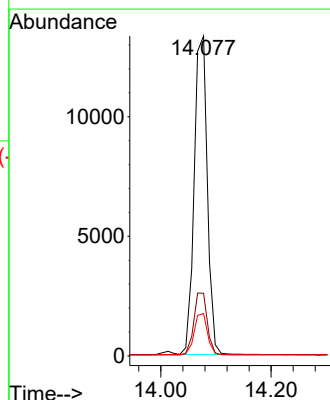
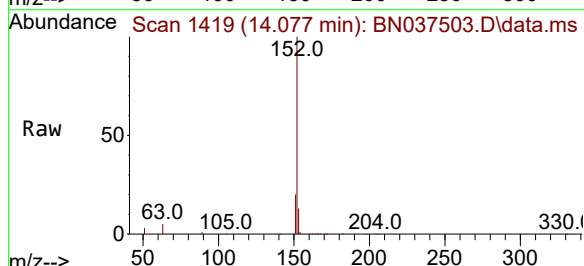
Tgt Ion:152 Resp: 22002

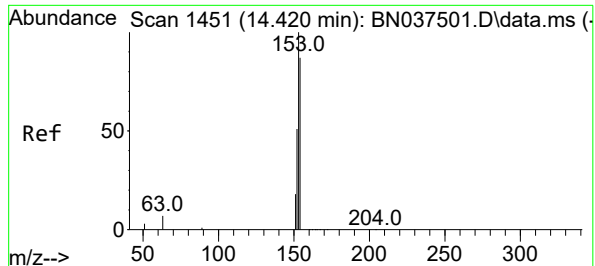
Ion Ratio Lower Upper

152 100

151 19.9 15.9 23.9

153 13.2 10.7 16.1

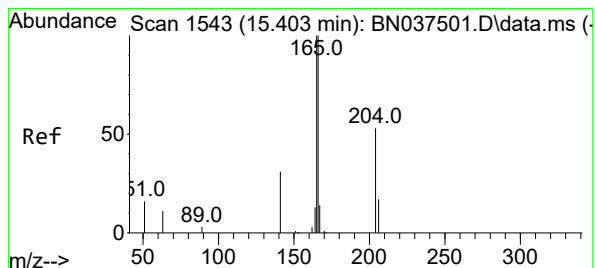
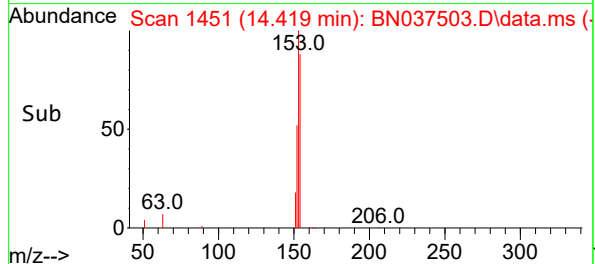
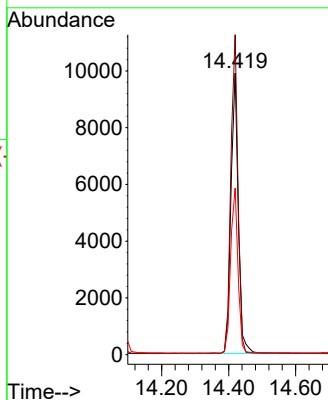
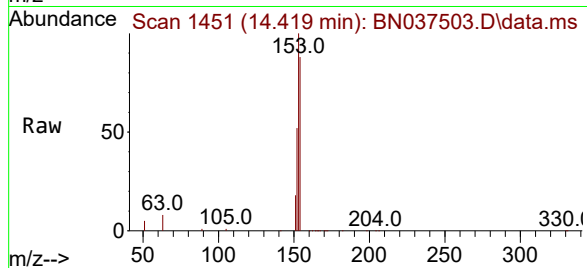




#17
Acenaphthene
Concen: 1.625 ng
RT: 14.419 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

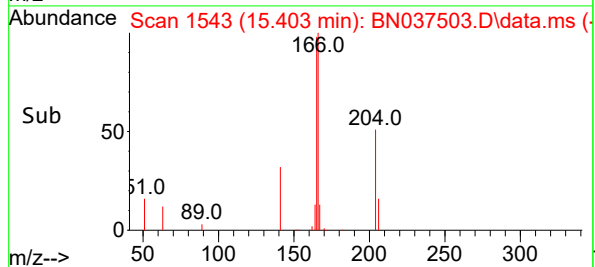
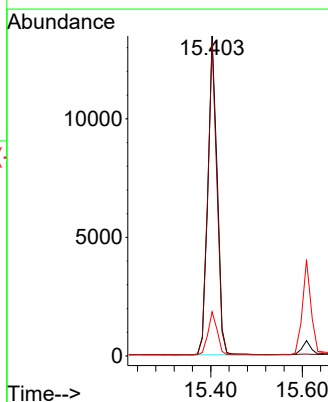
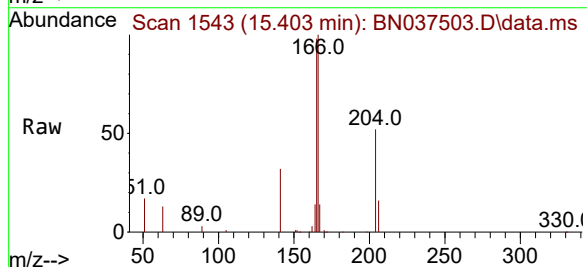
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

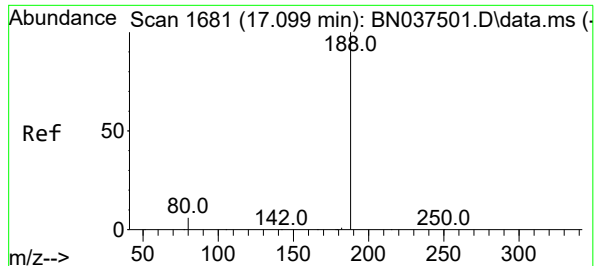
Tgt Ion:154 Resp: 14877
Ion Ratio Lower Upper
154 100
153 110.6 89.2 133.8
152 59.5 48.0 72.0



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

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

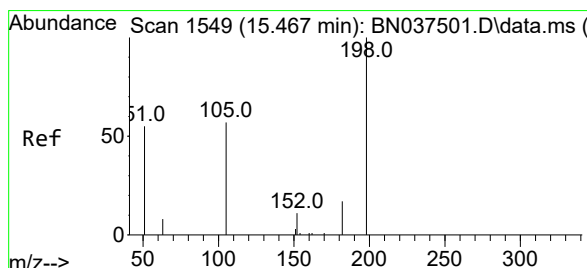
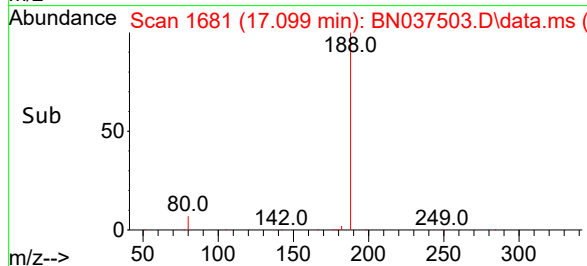
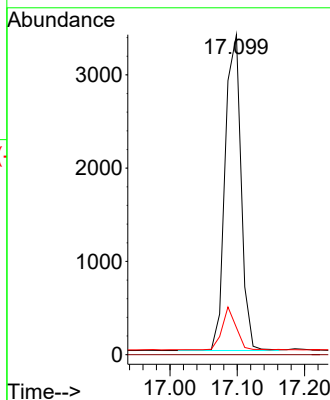
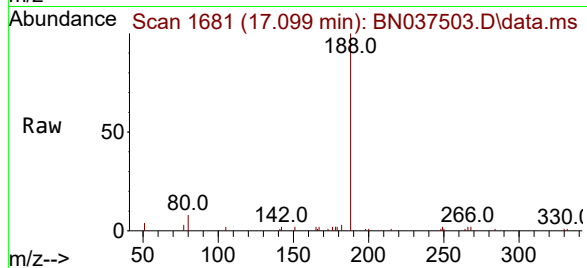
Tgt Ion:188 Resp: 5542

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 1.576 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

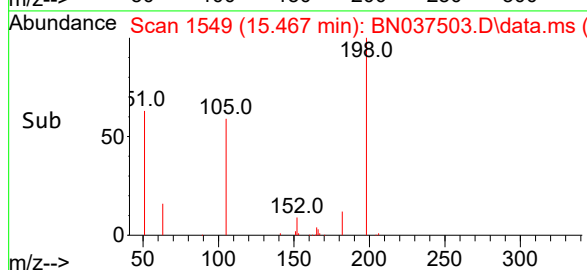
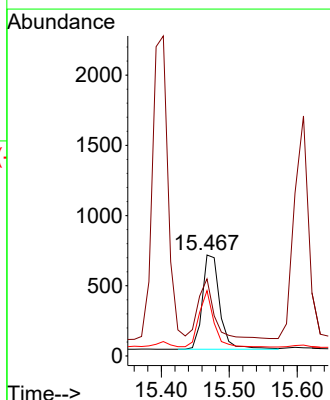
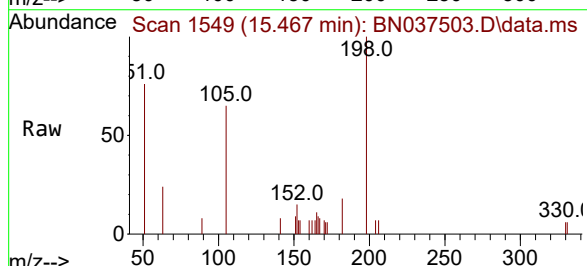
Tgt Ion:198 Resp: 1268

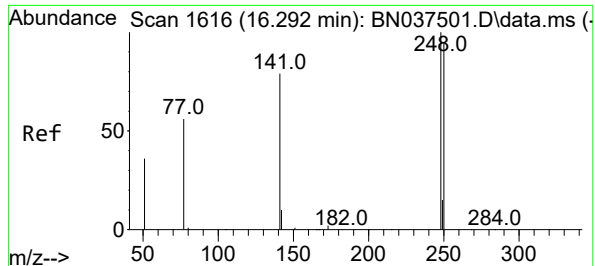
Ion Ratio Lower Upper

198 100

51 76.5 88.5 132.7#

105 64.7 61.2 91.8

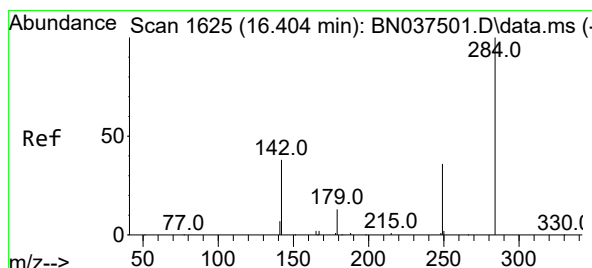
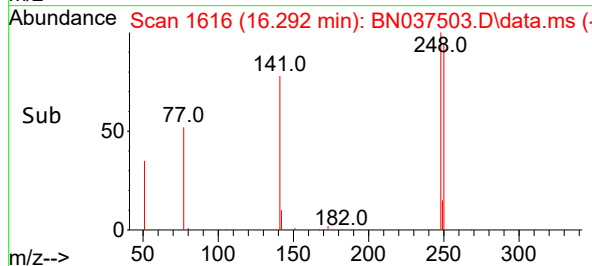
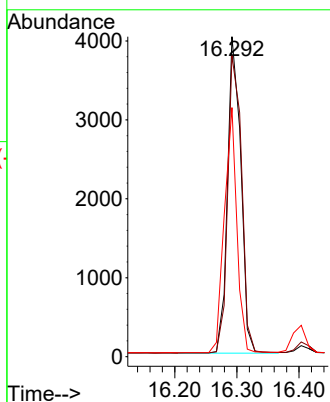
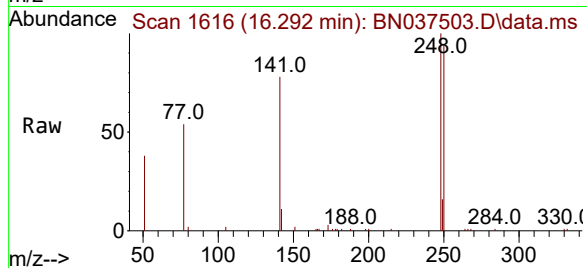




#21
4-Bromophenyl-phenylether
Concen: 1.674 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

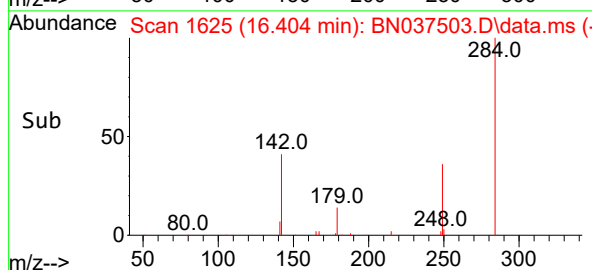
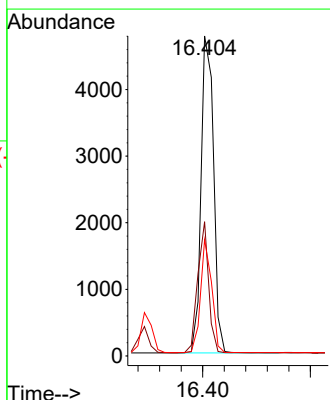
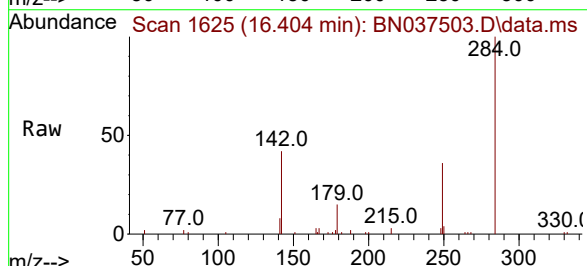
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

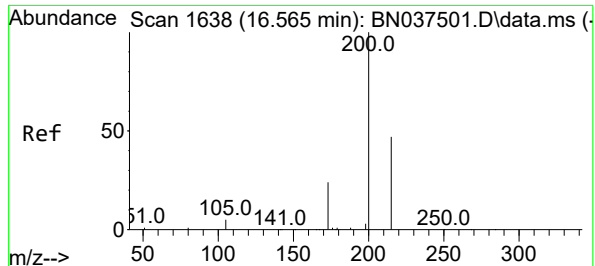
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.1	76.2	114.2
141	77.8	63.9	95.9



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

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





#23

Atrazine

Concen: 1.621 ng

RT: 16.565 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

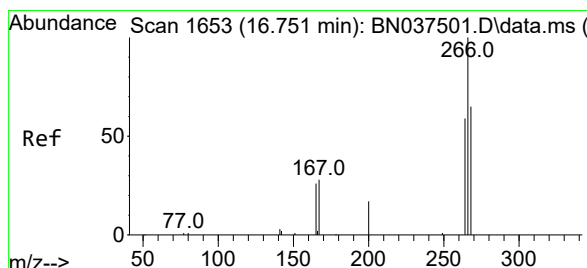
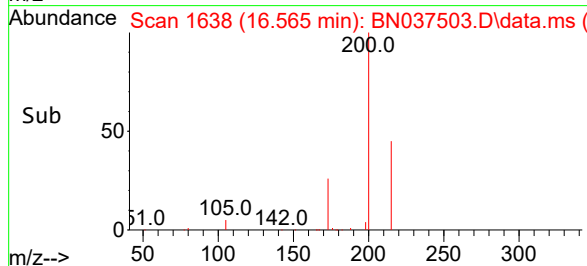
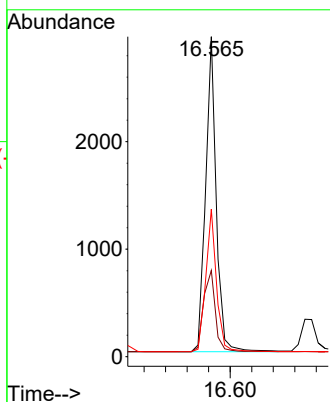
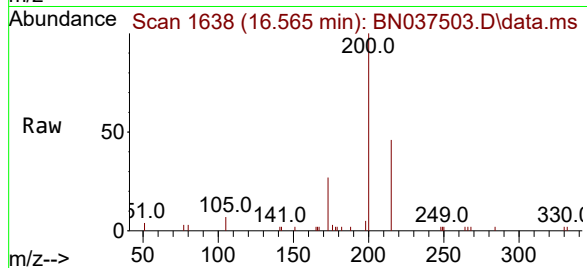
Tgt Ion:200 Resp: 4016

Ion Ratio Lower Upper

200 100

173 27.0 23.2 34.8

215 46.1 40.2 60.4



#24

Pentachlorophenol

Concen: 1.627 ng

RT: 16.751 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

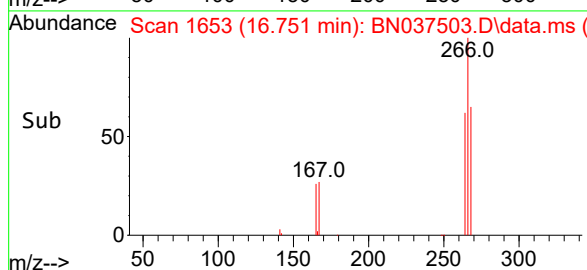
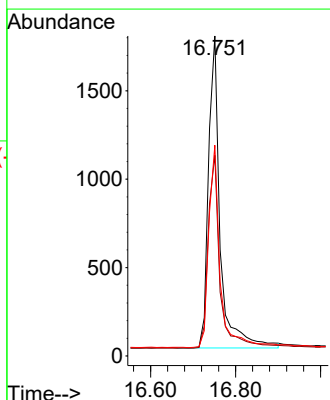
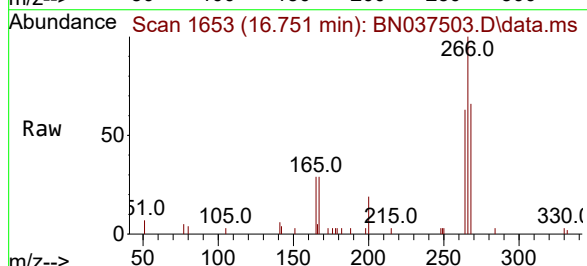
Tgt Ion:266 Resp: 3347

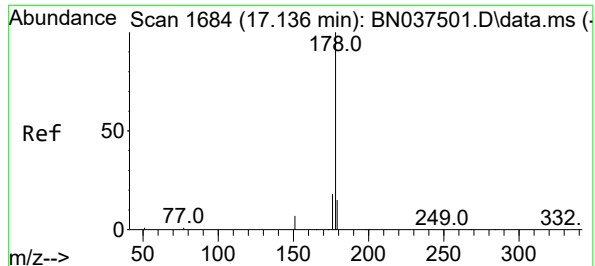
Ion Ratio Lower Upper

266 100

264 62.6 49.3 73.9

268 64.1 51.6 77.4

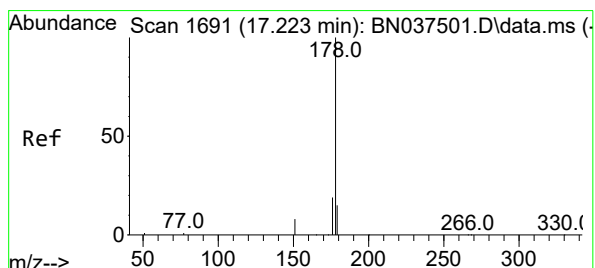
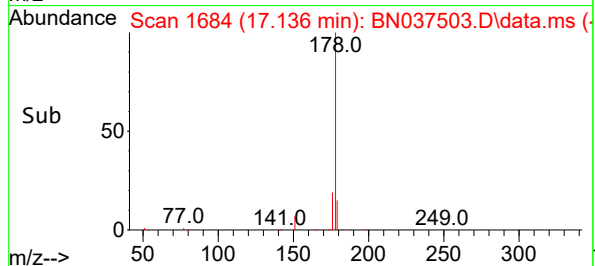
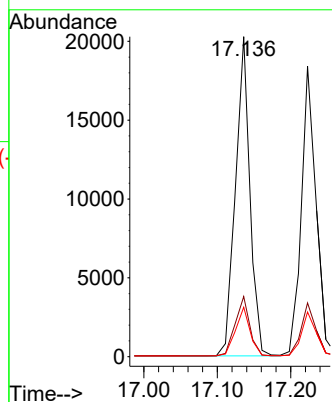
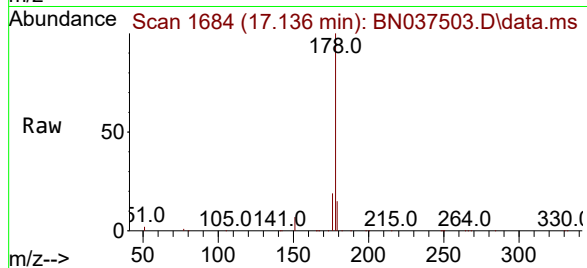




#25
Phenanthrene
Concen: 1.666 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

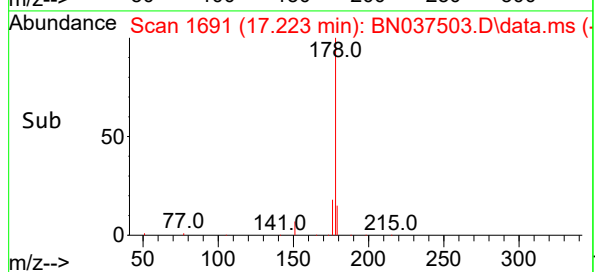
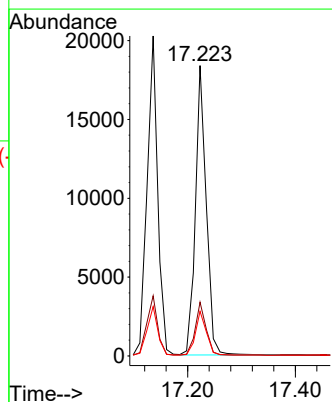
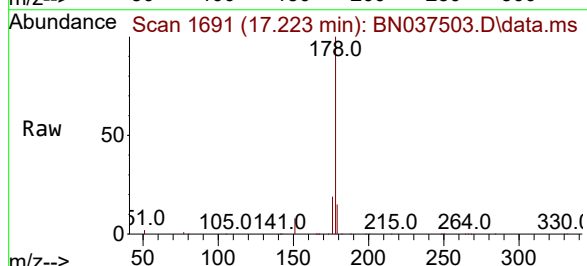
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

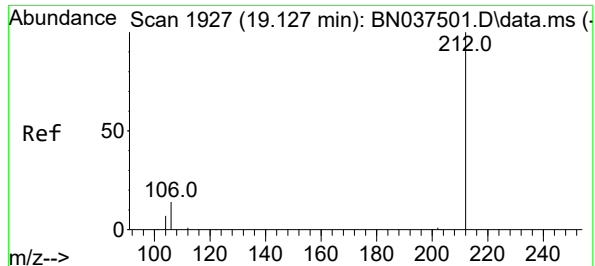
Tgt Ion:178 Resp: 27669
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.2 18.2



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

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





#27

Fluoranthene-d10

Concen: 1.572 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

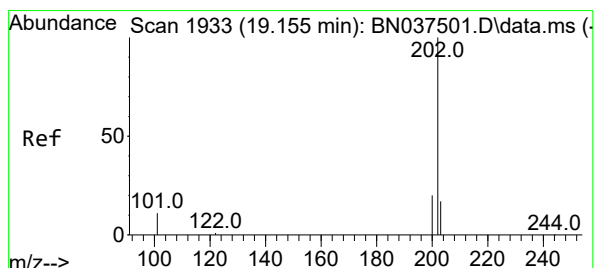
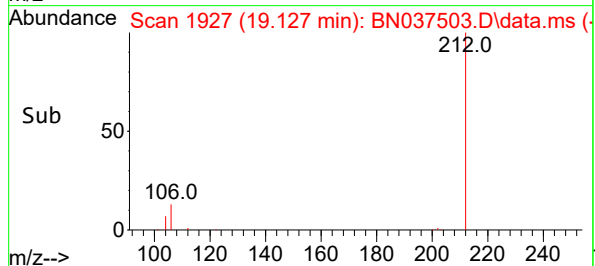
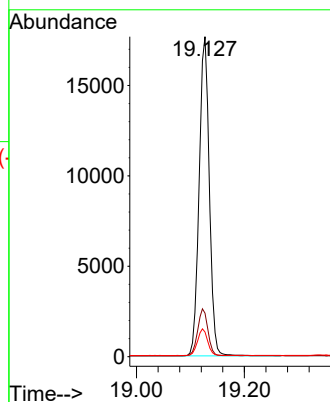
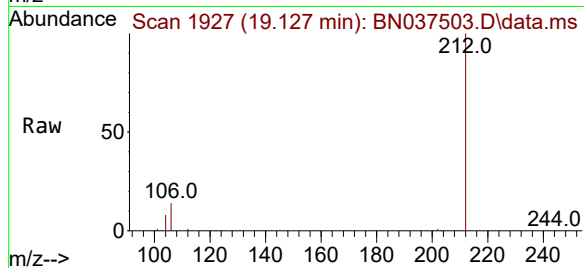
Tgt Ion:212 Resp: 23071

Ion Ratio Lower Upper

212 100

106 14.8 12.2 18.4

104 8.3 6.7 10.1



#28

Fluoranthene

Concen: 1.654 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

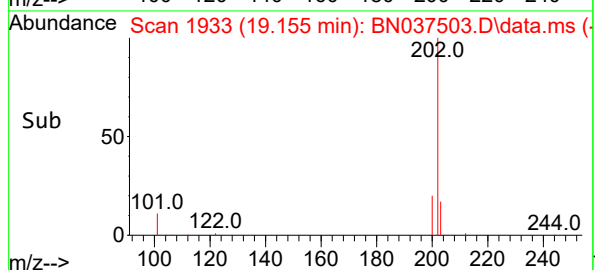
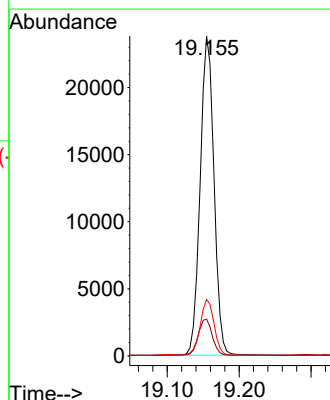
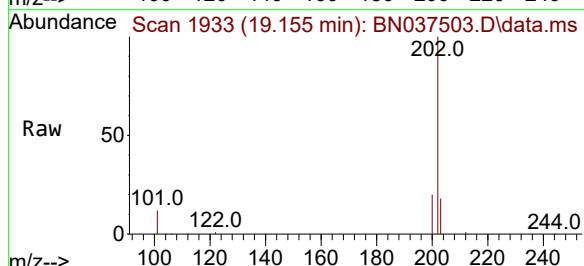
Tgt Ion:202 Resp: 31674

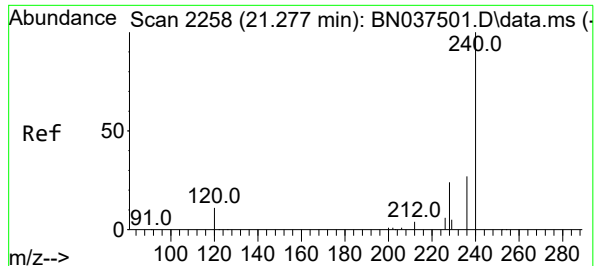
Ion Ratio Lower Upper

202 100

101 11.7 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

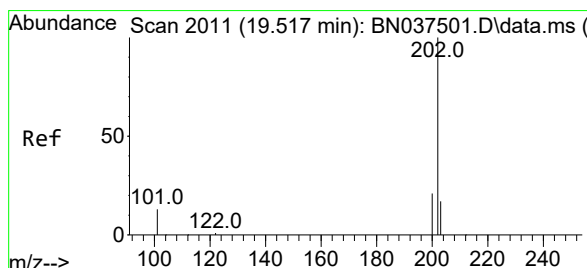
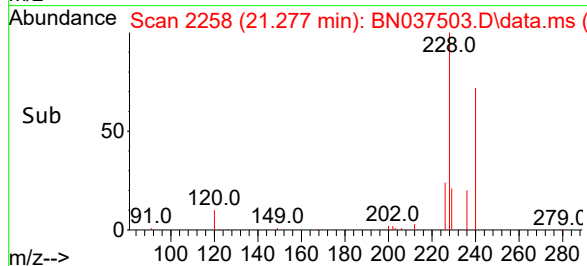
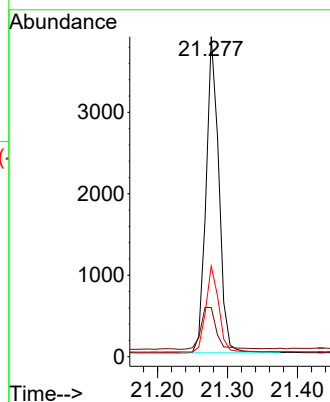
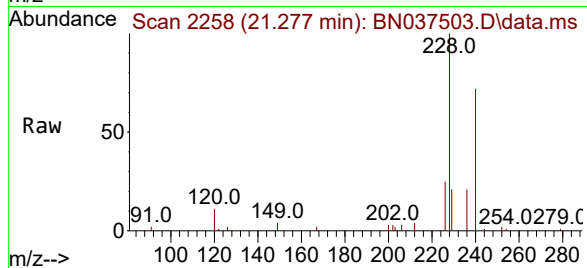
Tgt Ion:240 Resp: 4955

Ion Ratio Lower Upper

240 100

120 15.4 10.7 16.1

236 28.3 22.6 33.8



#30

Pyrene

Concen: 1.596 ng

RT: 19.517 min Scan# 2011

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

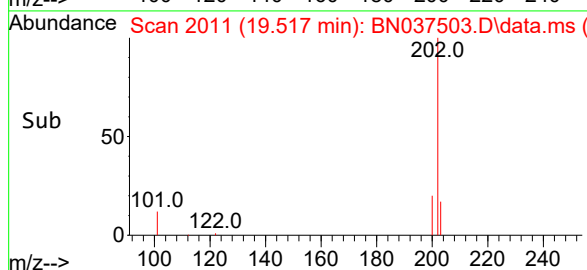
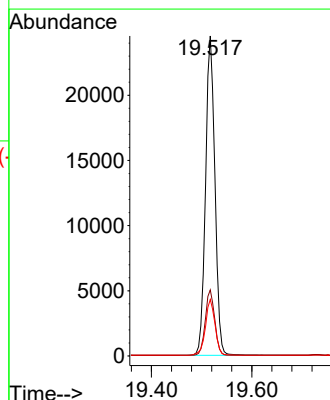
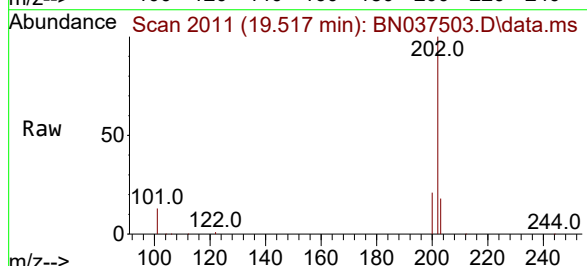
Tgt Ion:202 Resp: 31858

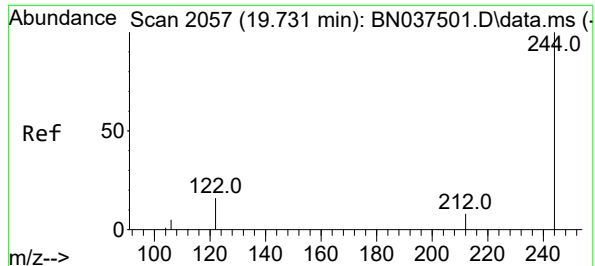
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.7 14.3 21.5

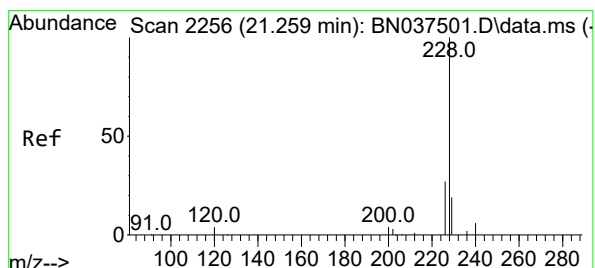
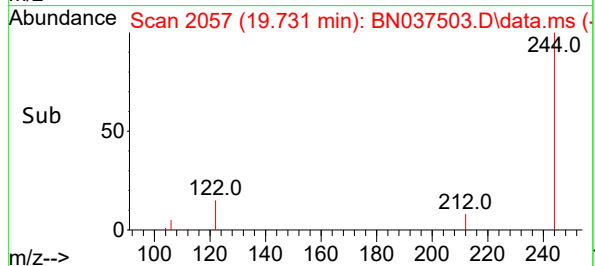
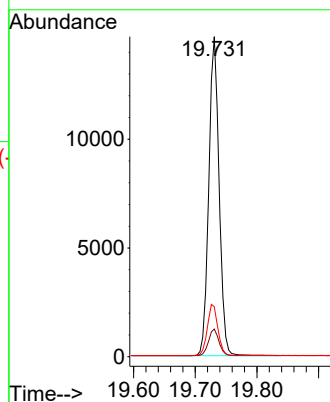
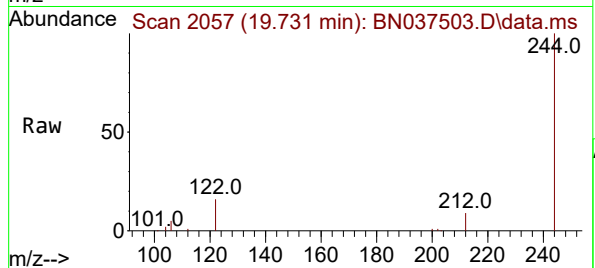




#31
Terphenyl-d14
Concen: 1.591 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037503.D
Acq: 15 Jul 2025 15:01

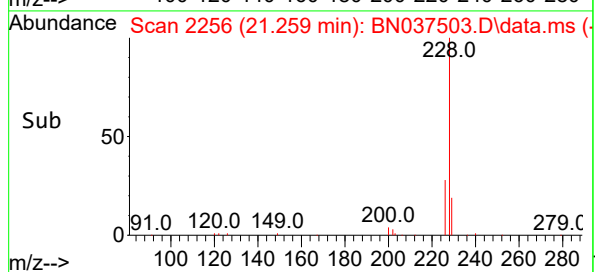
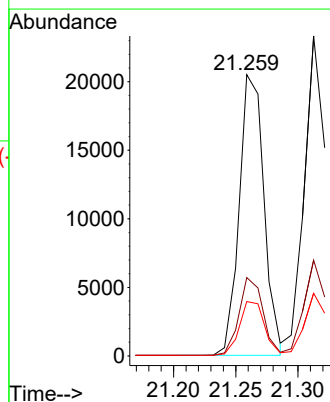
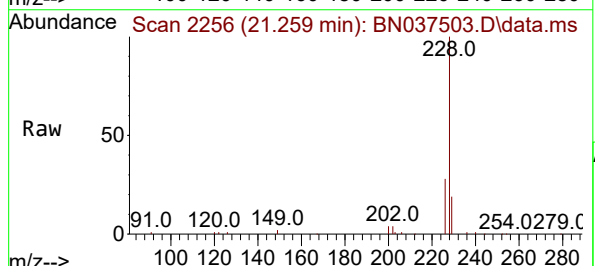
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

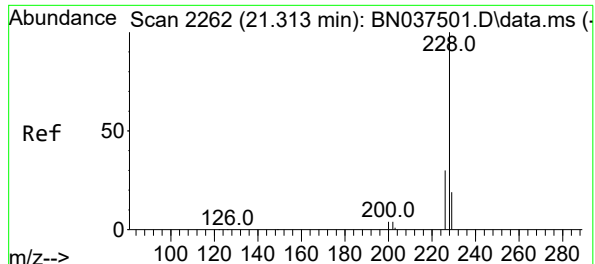
Tgt Ion:244 Resp: 16936
Ion Ratio Lower Upper
244 100
212 8.6 7.4 11.2
122 15.6 13.6 20.4



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

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





#33

Chrysene

Concen: 1.632 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

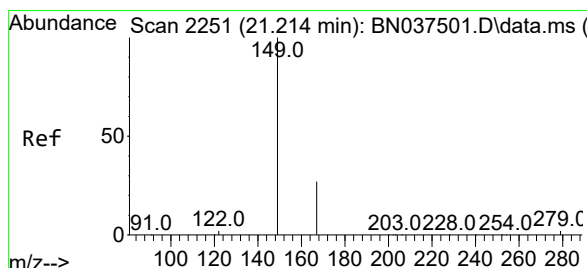
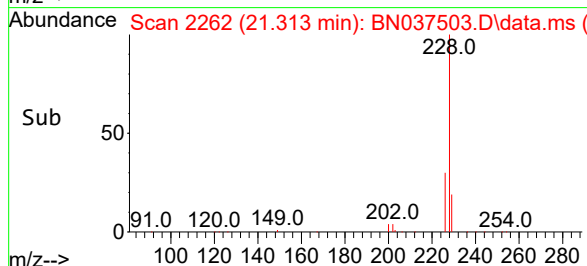
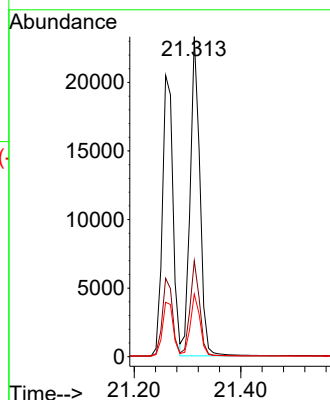
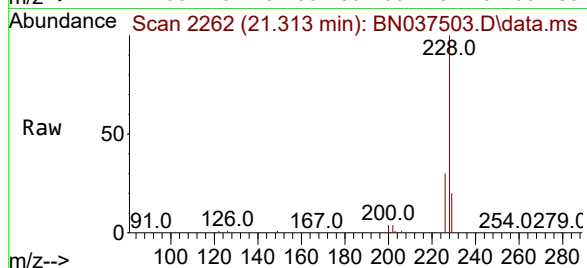
Tgt Ion:228 Resp: 29489

Ion Ratio Lower Upper

228 100

226 30.0 24.2 36.4

229 19.6 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.532 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

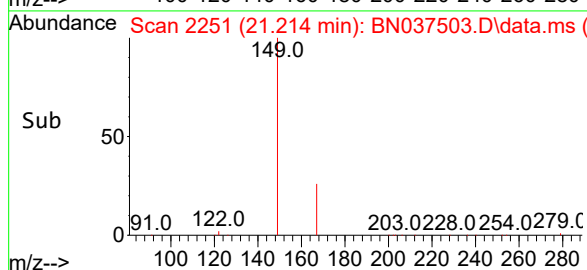
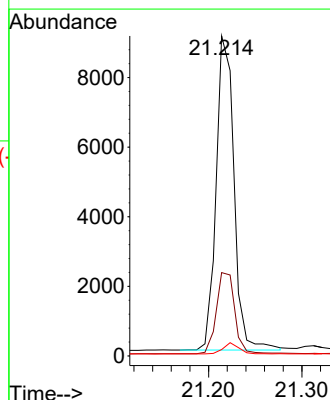
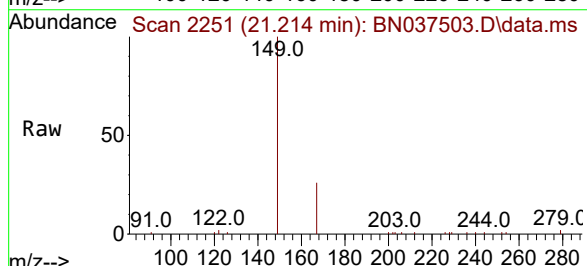
Tgt Ion:149 Resp: 11959

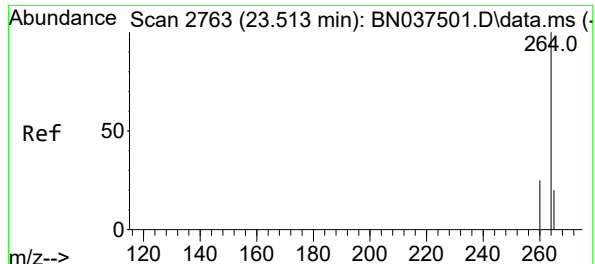
Ion Ratio Lower Upper

149 100

167 26.5 21.8 32.8

279 3.1 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037503.D

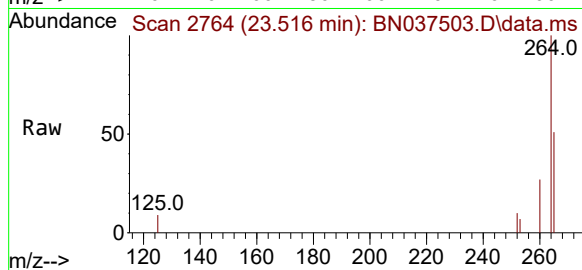
Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



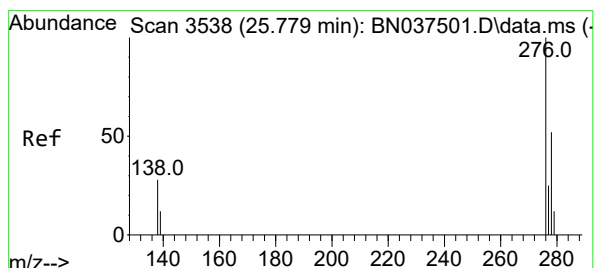
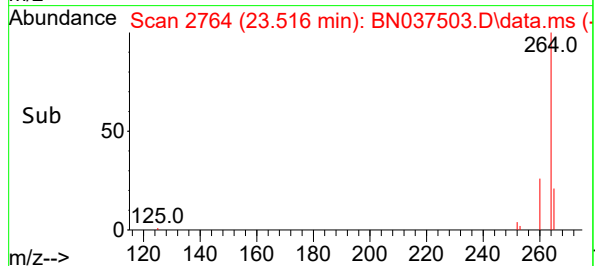
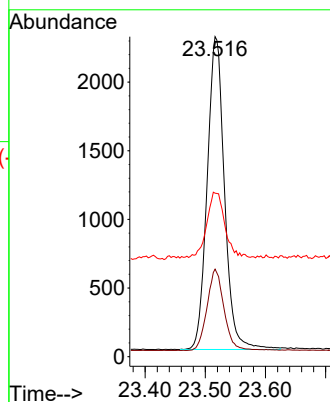
Tgt Ion:264 Resp: 4551

Ion Ratio Lower Upper

264 100

260 27.3 21.2 31.8

265 51.1 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.701 ng

RT: 25.782 min Scan# 3539

Delta R.T. 0.003 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

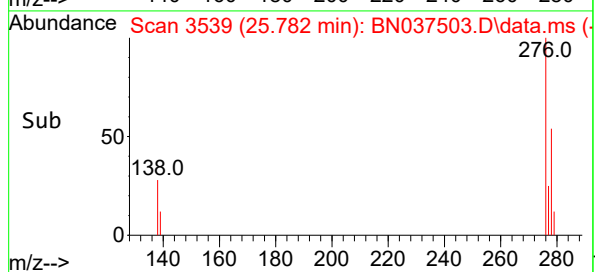
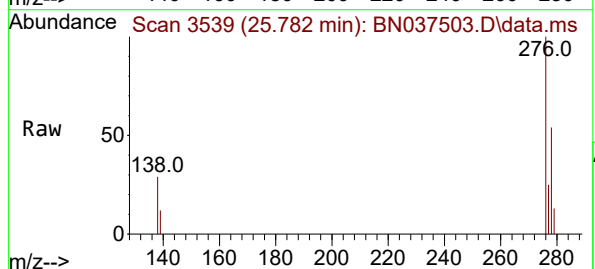
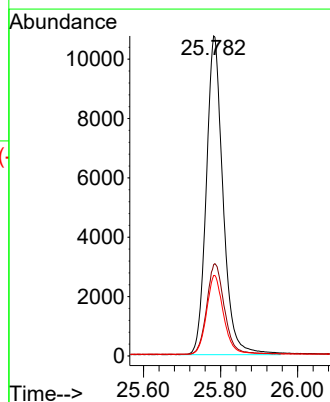
Tgt Ion:276 Resp: 32244

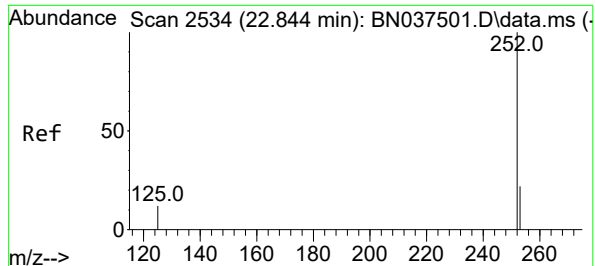
Ion Ratio Lower Upper

276 100

138 30.1 24.0 36.0

277 25.1 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 1.675 ng

RT: 22.844 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

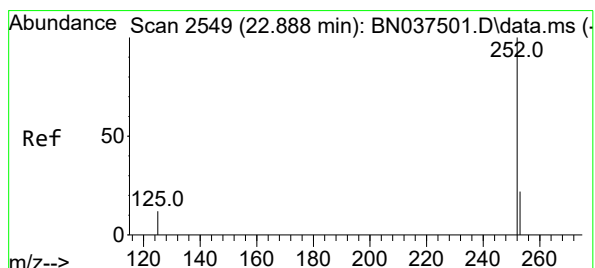
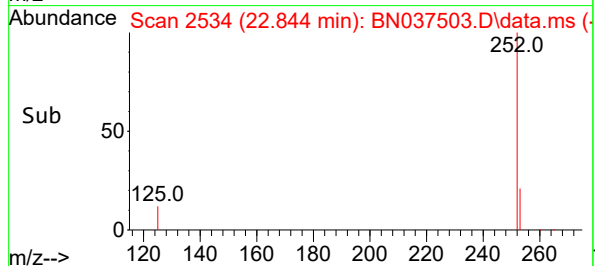
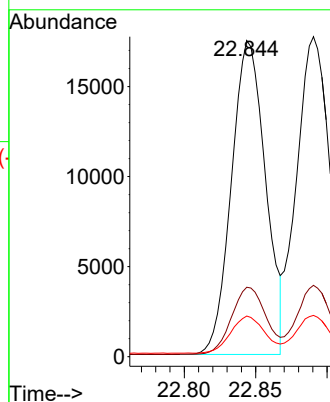
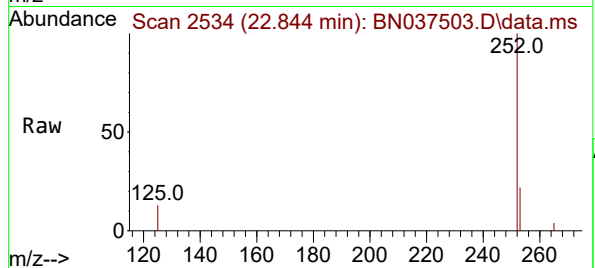
Tgt Ion:252 Resp: 28933

Ion Ratio Lower Upper

252 100

253 22.0 19.5 29.3

125 12.9 13.0 19.6#



#38

Benzo(k)fluoranthene

Concen: 1.696 ng

RT: 22.890 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

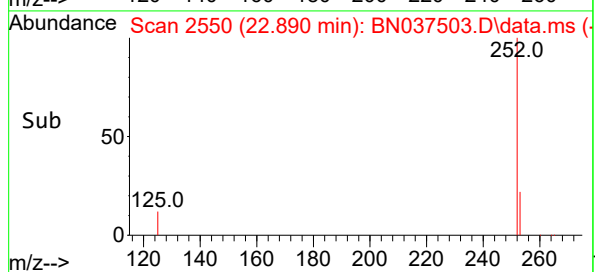
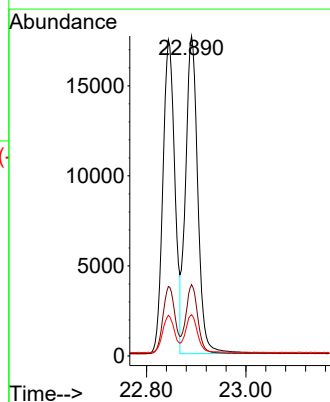
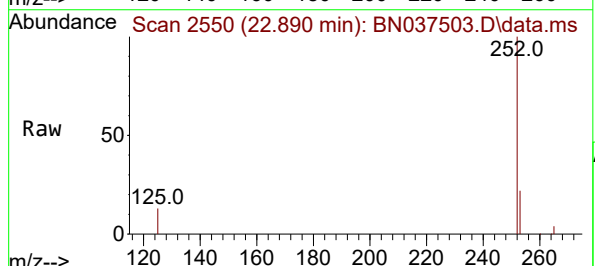
Tgt Ion:252 Resp: 30228

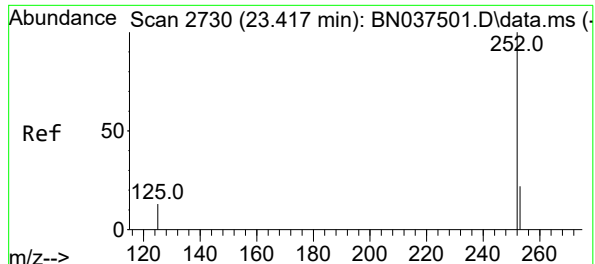
Ion Ratio Lower Upper

252 100

253 22.3 19.5 29.3

125 12.9 13.1 19.7#





#39

Benzo(a)pyrene

Concen: 1.668 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

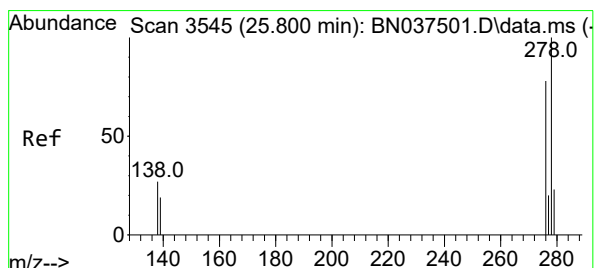
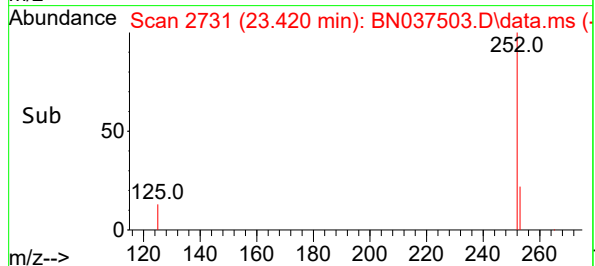
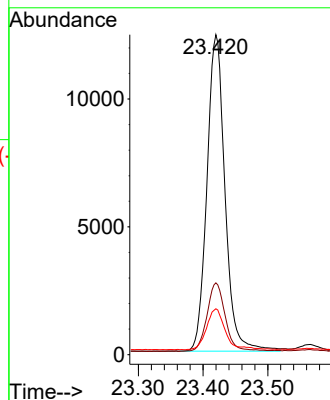
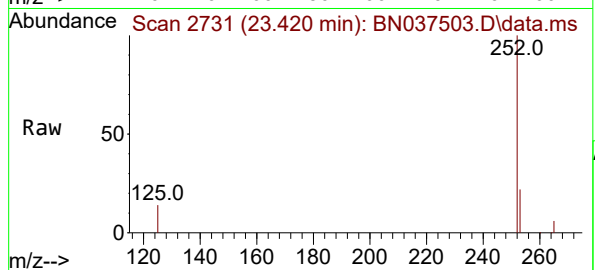
Tgt Ion:252 Resp: 24034

Ion Ratio Lower Upper

252 100

253 22.5 19.9 29.9

125 14.3 15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 1.712 ng

RT: 25.800 min Scan# 3545

Delta R.T. -0.000 min

Lab File: BN037503.D

Acq: 15 Jul 2025 15:01

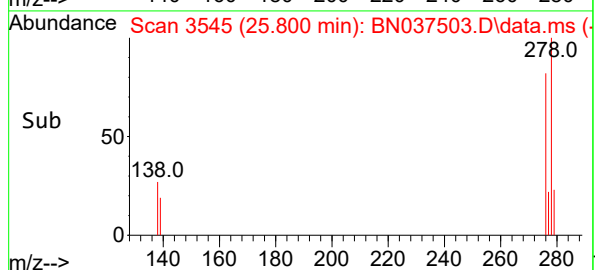
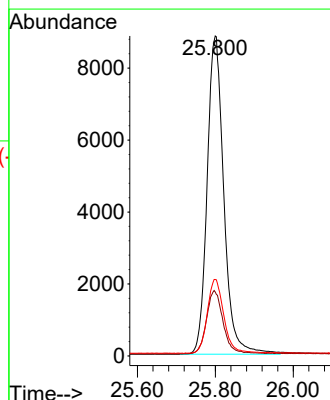
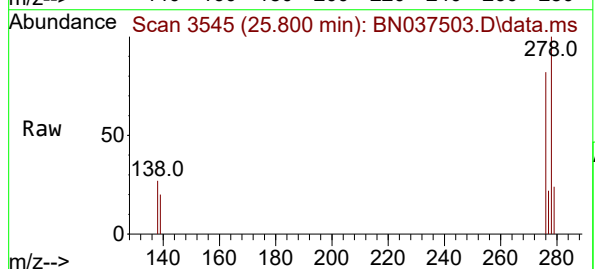
Tgt Ion:278 Resp: 26285

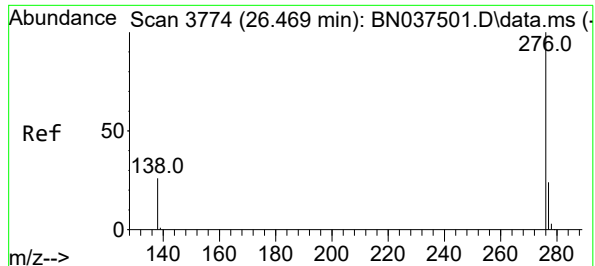
Ion Ratio Lower Upper

278 100

139 20.0 17.5 26.3

279 23.9 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 1.697 ng

RT: 26.466 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037503.D

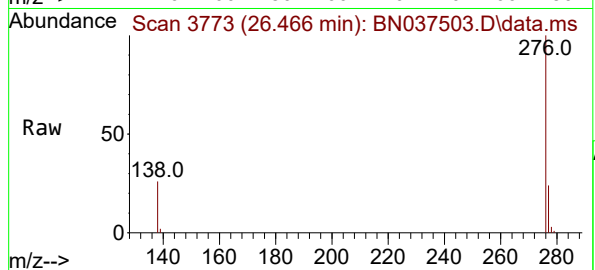
Acq: 15 Jul 2025 15:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



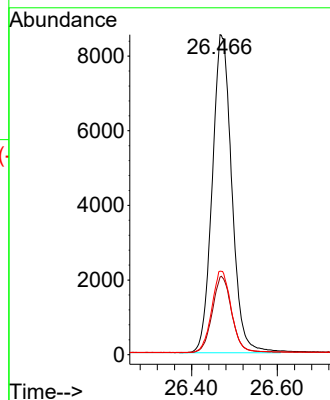
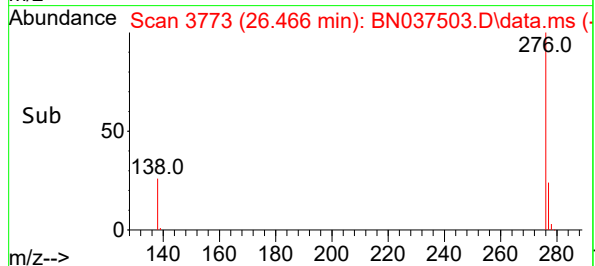
Tgt Ion:276 Resp: 26971

Ion Ratio Lower Upper

276 100

277 24.3 20.9 31.3

138 26.1 22.6 33.8



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

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

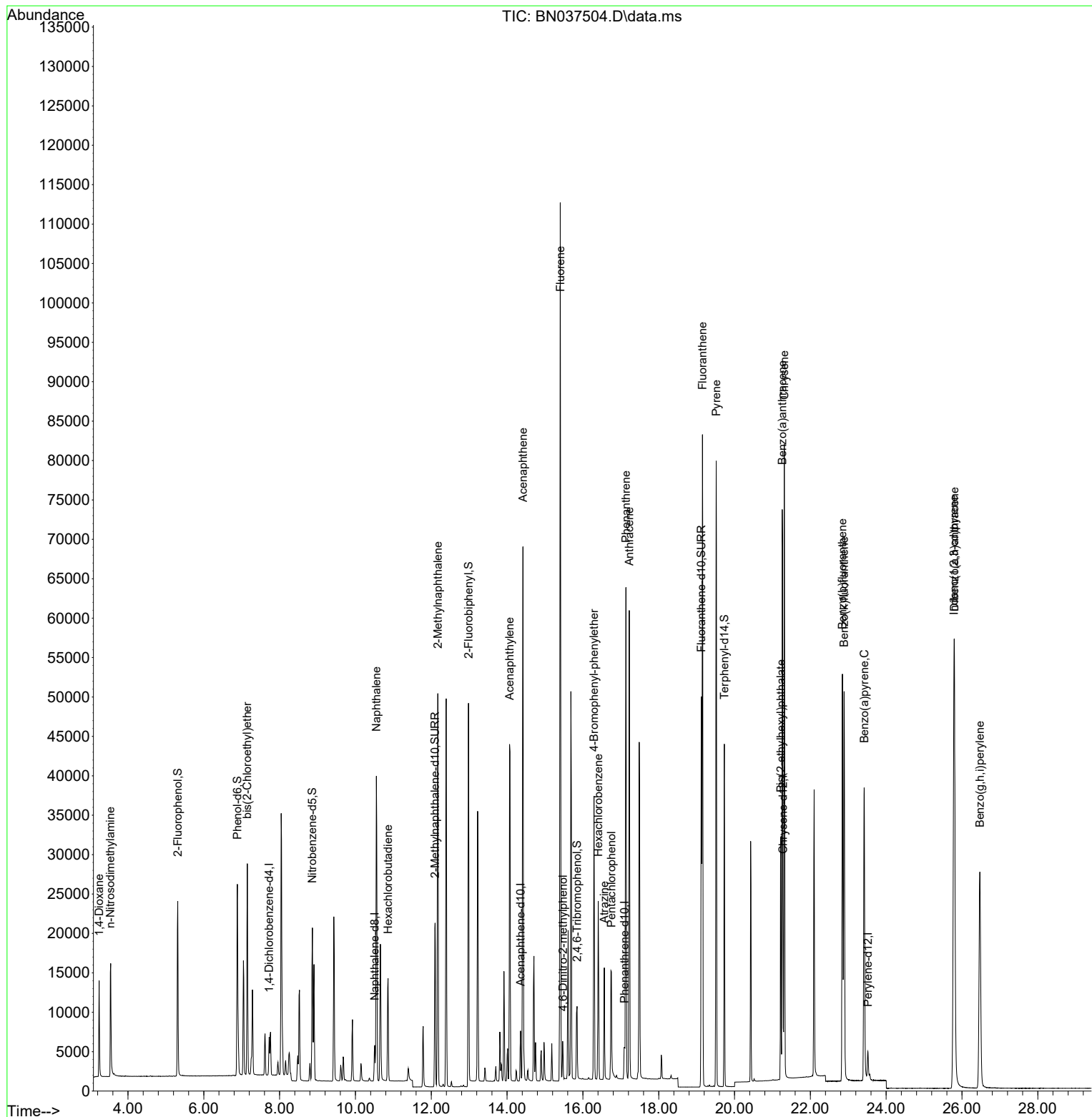
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2243	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5878	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3382	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6204	0.400	ng	0.00
29) Chrysene-d12	21.277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

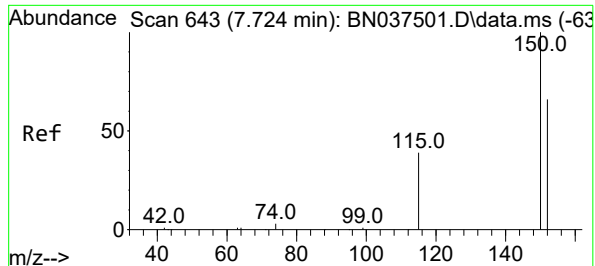
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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

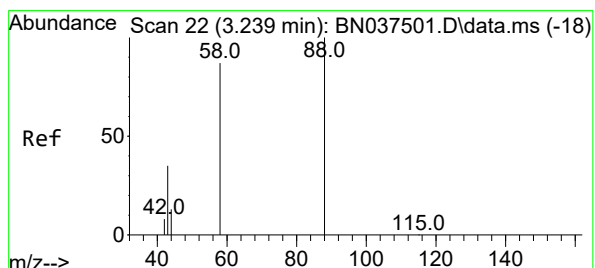
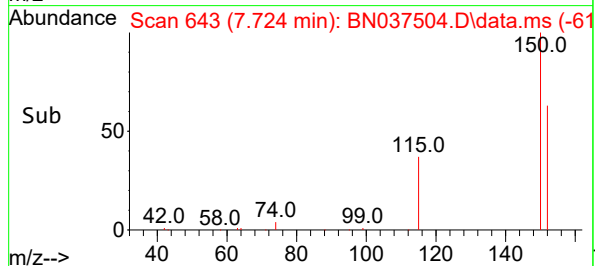
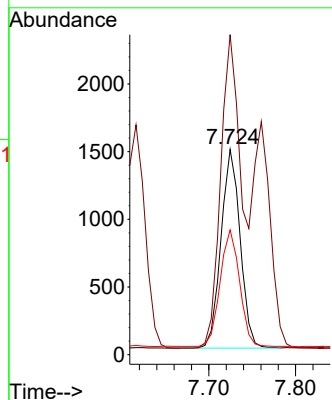
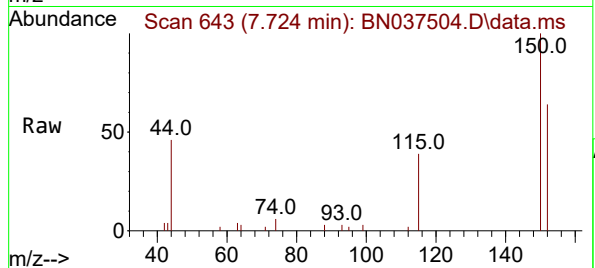




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

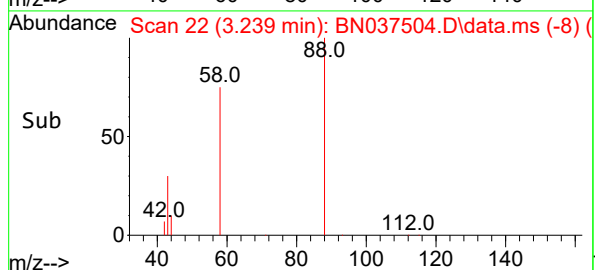
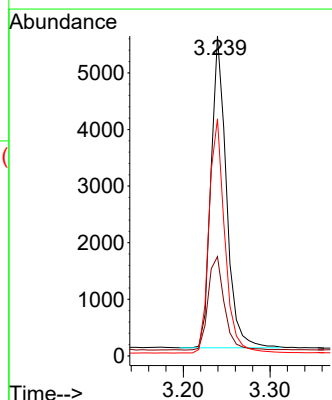
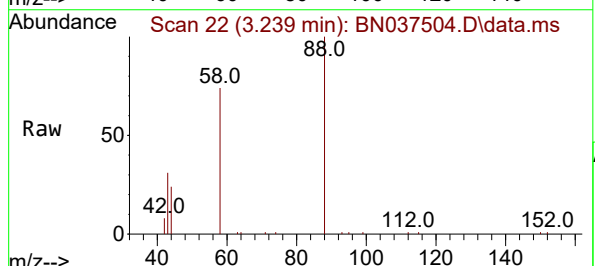
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

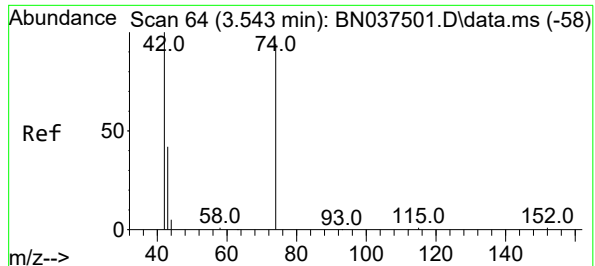
Tgt Ion:152 Resp: 2243
Ion Ratio Lower Upper
152 100
150 155.8 119.8 179.8
115 60.8 49.1 73.7



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

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

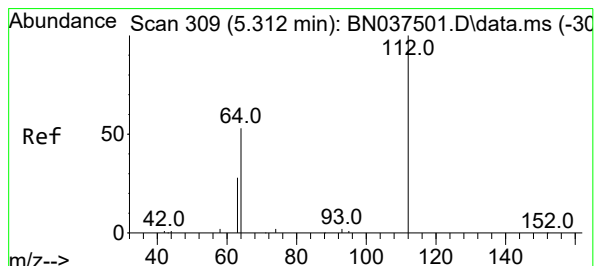
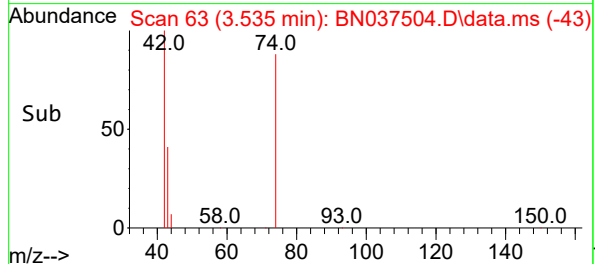
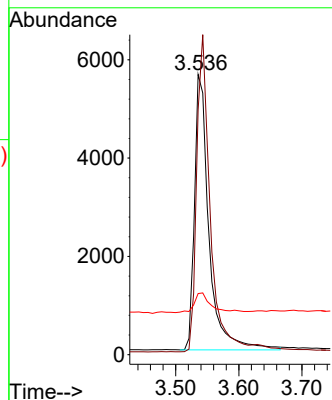
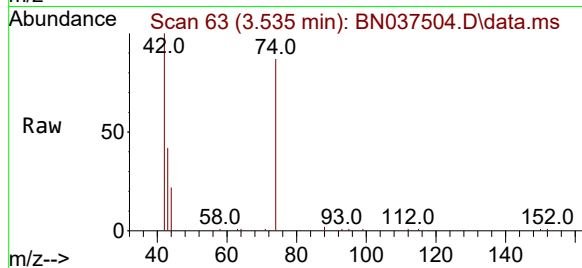




#3
n-Nitrosodimethylamine
Concen: 3.298 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

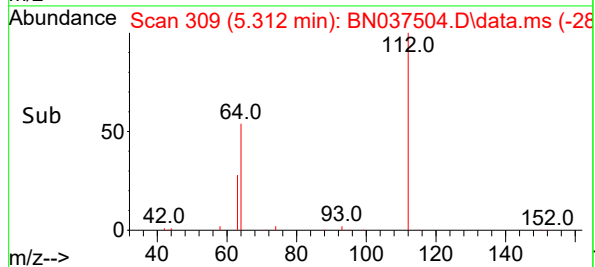
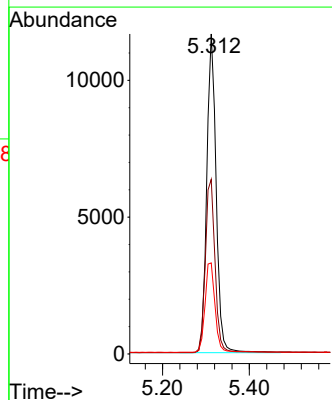
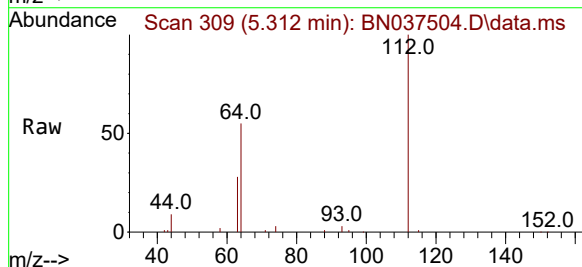
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

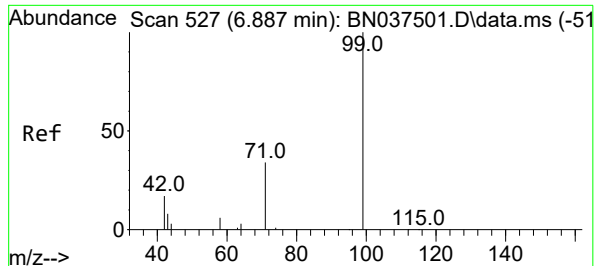
Tgt Ion: 42 Resp: 8946
Ion Ratio Lower Upper
42 100
74 110.0 91.8 137.6
44 8.4 15.0 22.6#



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

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

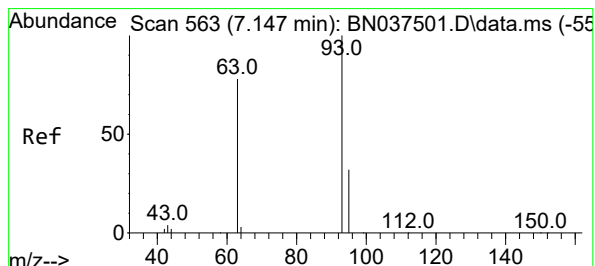
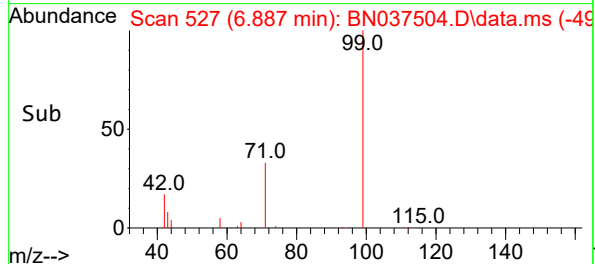
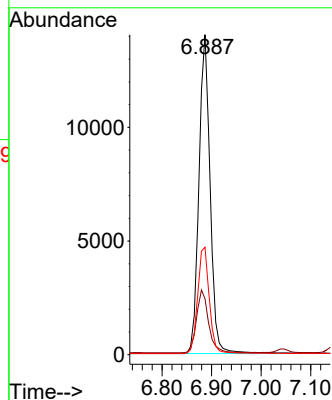
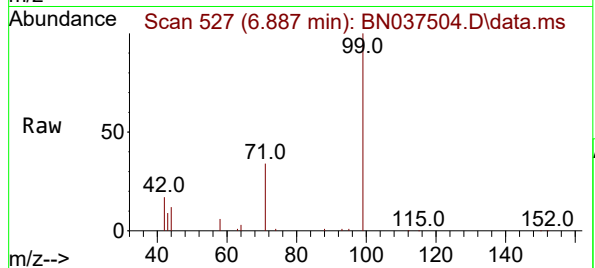




#5
Phenol-d6
Concen: 3.169 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

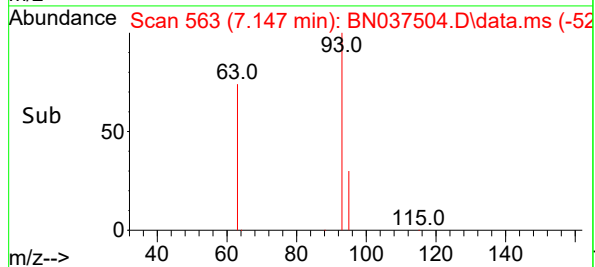
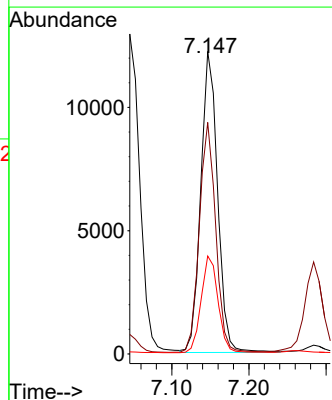
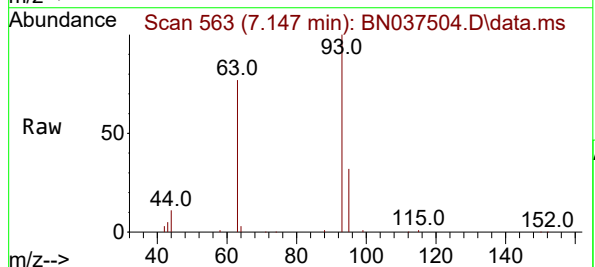
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

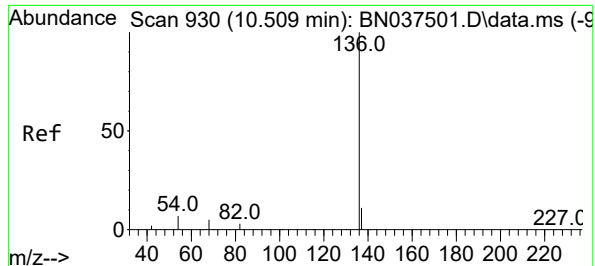
Tgt Ion: 99 Resp: 22047
Ion Ratio Lower Upper
99 100
42 21.2 17.1 25.7
71 34.8 27.8 41.8



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

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

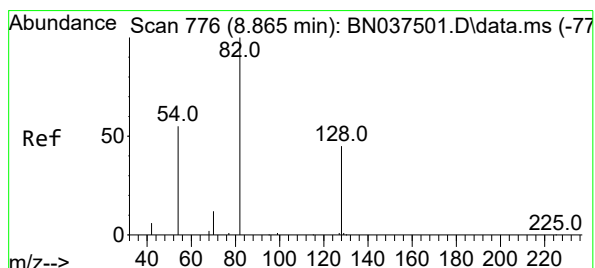
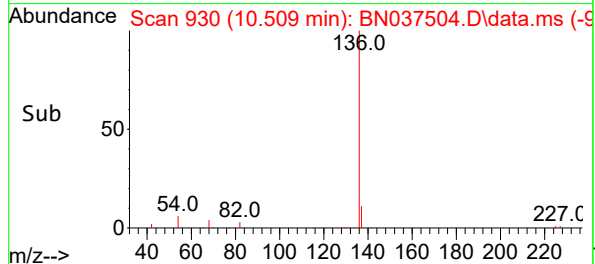
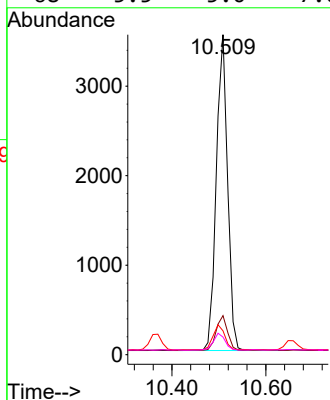
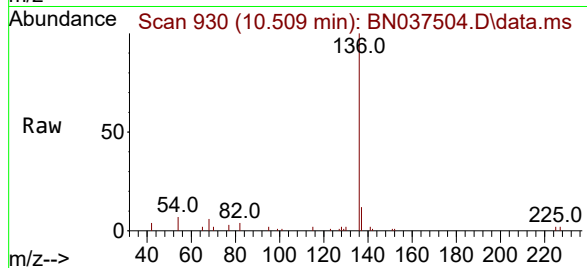




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

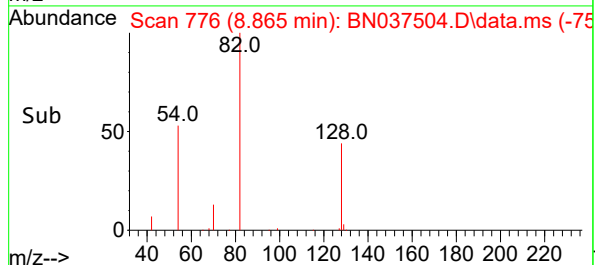
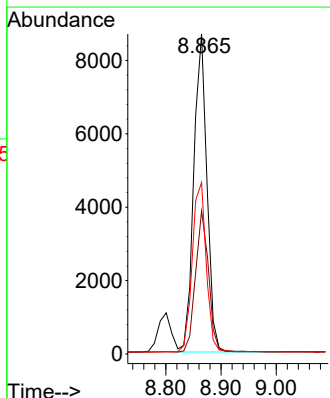
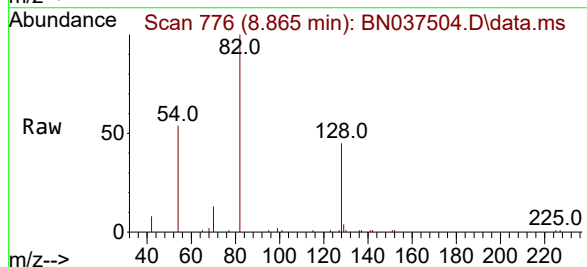
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

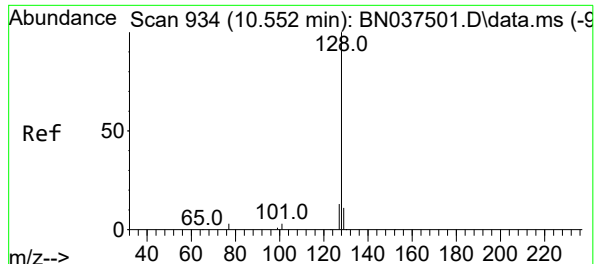
Tgt Ion:	136	Resp:	5878
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	7.5	6.6	9.8
68	5.5	5.0	7.6



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

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





#9

Naphthalene

Concen: 3.219 ng

RT: 10.552 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

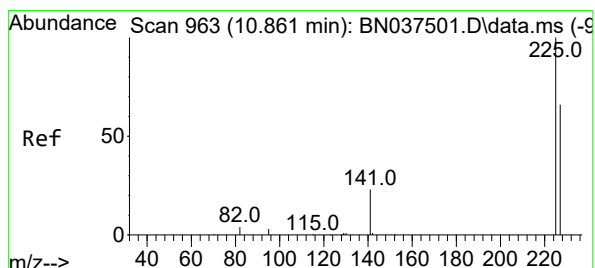
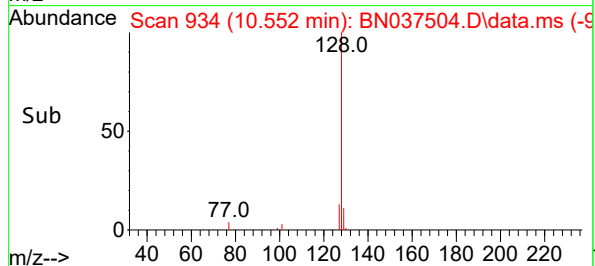
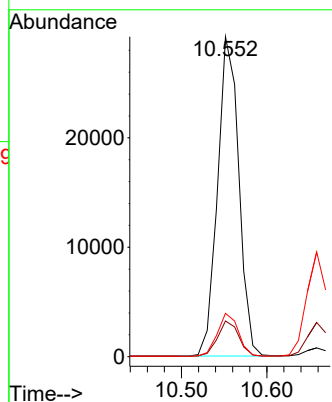
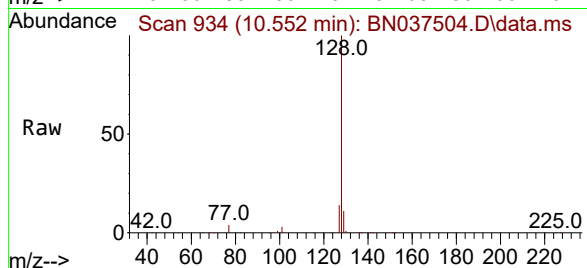
Tgt Ion:128 Resp: 50467

Ion Ratio Lower Upper

128 100

129 11.1 9.7 14.5

127 13.6 11.5 17.3



#10

Hexachlorobutadiene

Concen: 3.206 ng

RT: 10.861 min Scan# 963

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

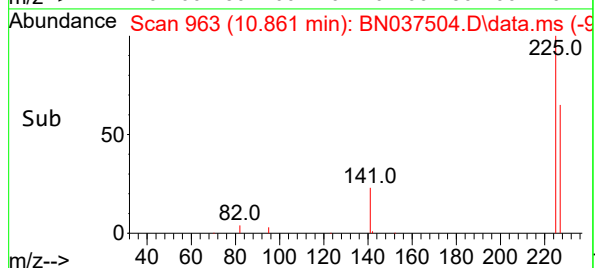
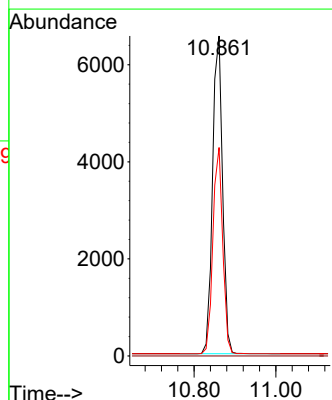
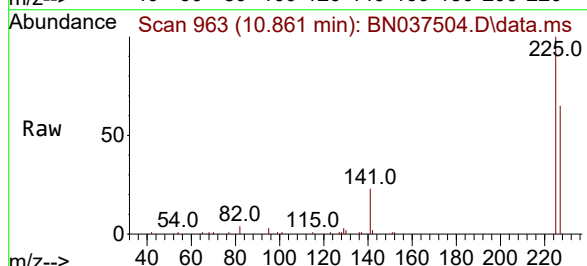
Tgt Ion:225 Resp: 11106

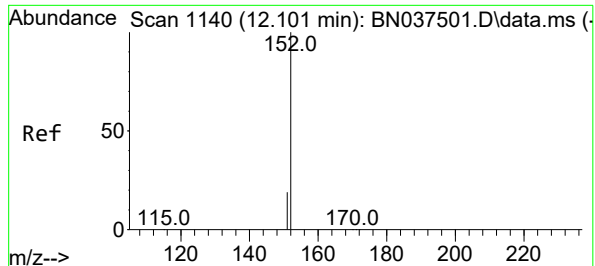
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 51.0 76.4

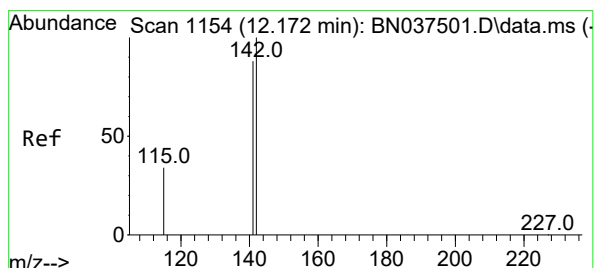
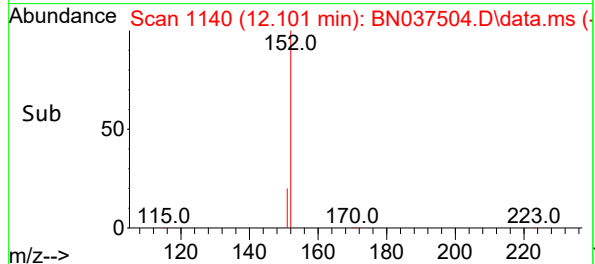
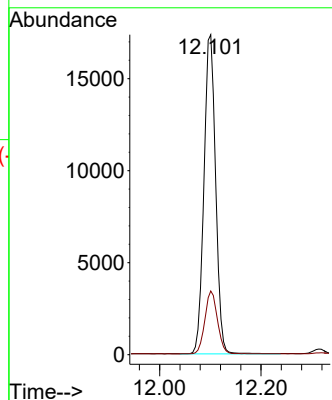
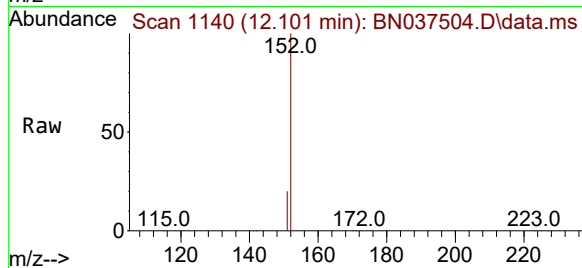




#11
2-Methylnaphthalene-d10
Concen: 3.293 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

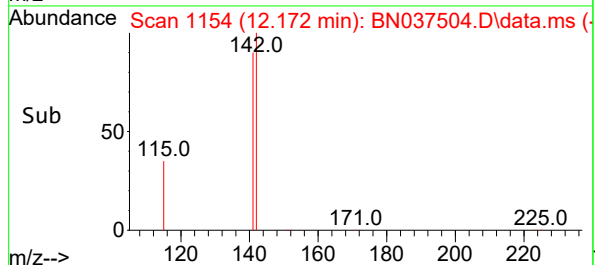
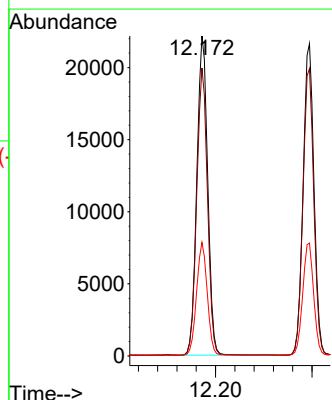
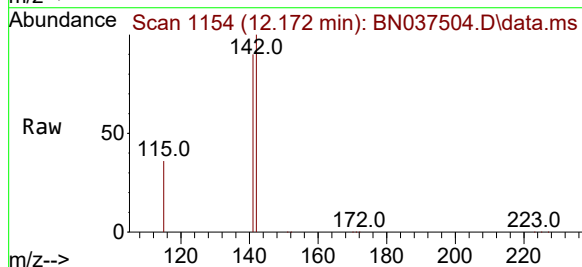
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

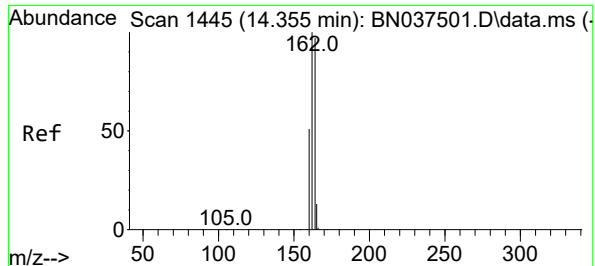
Tgt Ion:152 Resp: 27759
Ion Ratio Lower Upper
152 100
151 21.1 16.8 25.2



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

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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.355 min Scan# 1445

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

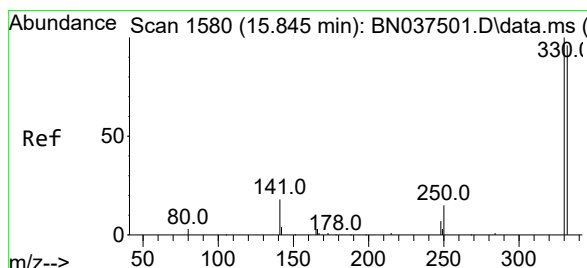
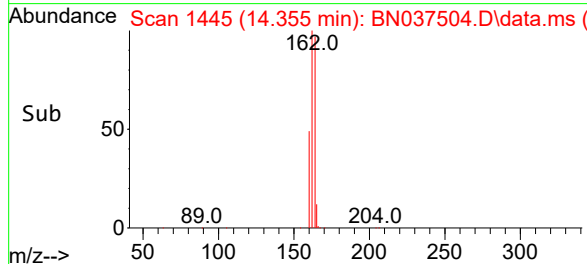
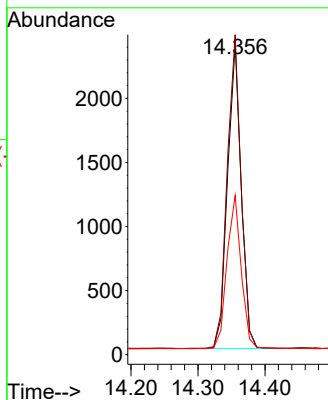
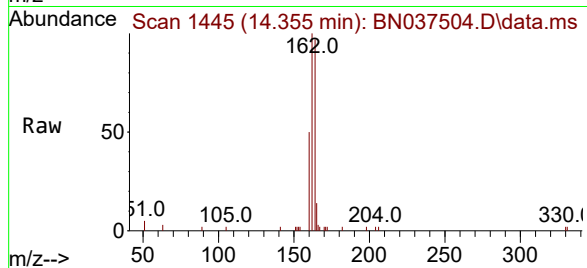
Tgt Ion:164 Resp: 3382

Ion Ratio Lower Upper

164 100

162 102.9 82.0 123.0

160 51.2 42.4 63.6



#14

2,4,6-Tribromophenol

Concen: 3.494 ng

RT: 15.845 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

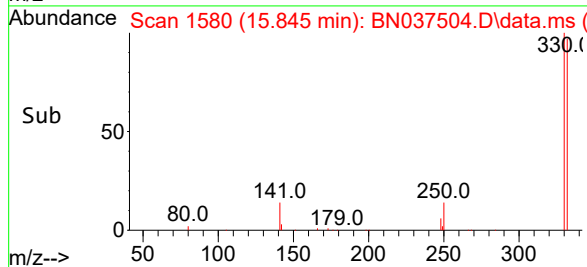
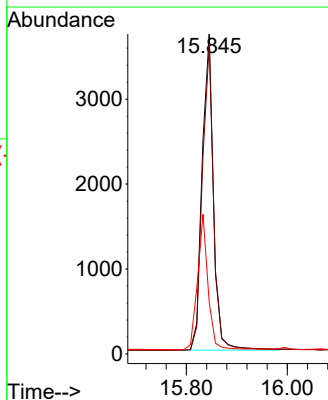
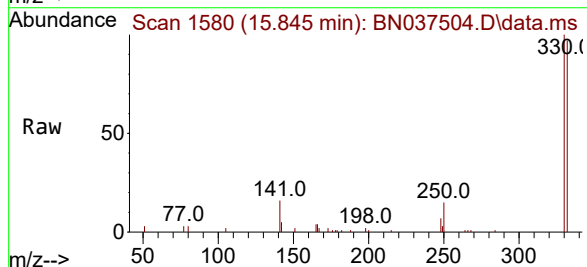
Tgt Ion:330 Resp: 5808

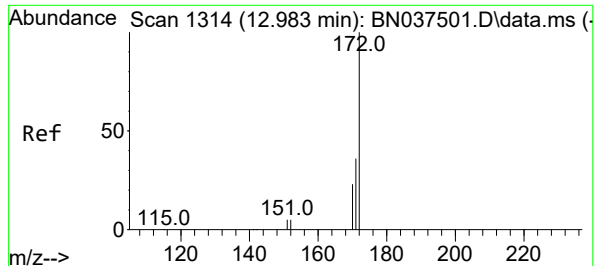
Ion Ratio Lower Upper

330 100

332 95.7 76.1 114.1

141 39.8 33.4 50.0





#15

2-Fluorobiphenyl

Concen: 3.393 ng

RT: 12.983 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

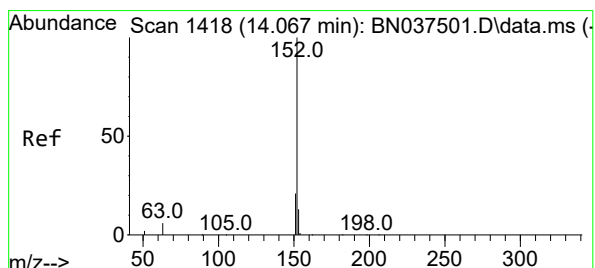
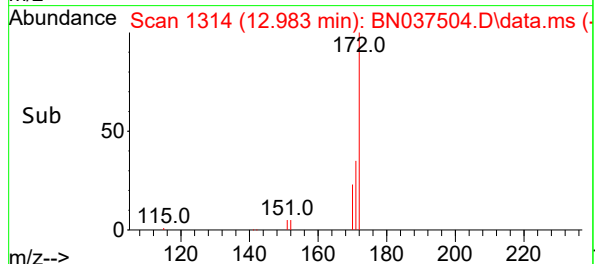
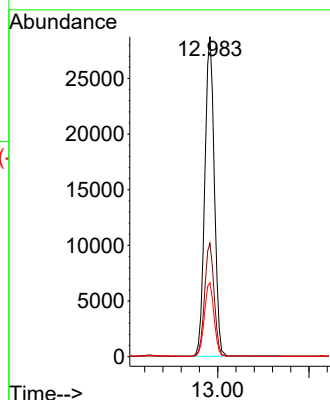
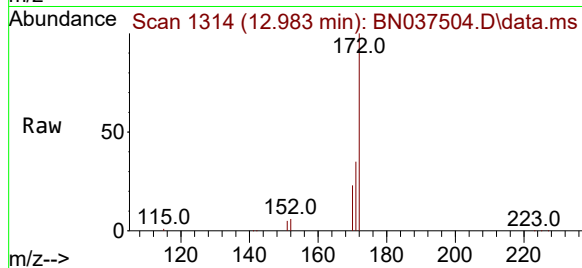
Tgt Ion:172 Resp: 59667

Ion Ratio Lower Upper

172 100

171 35.4 29.4 44.2

170 23.1 19.4 29.0



#16

Acenaphthylene

Concen: 3.385 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

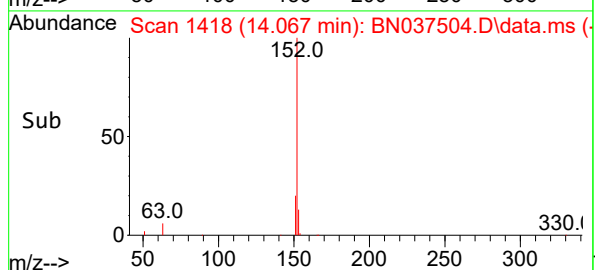
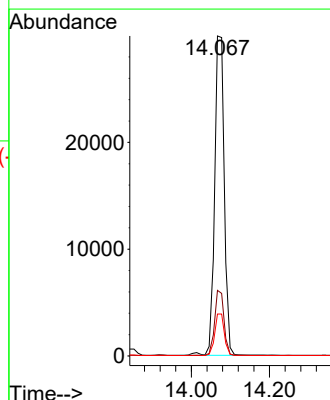
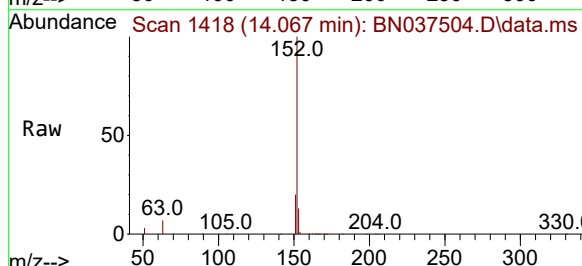
Tgt Ion:152 Resp: 51277

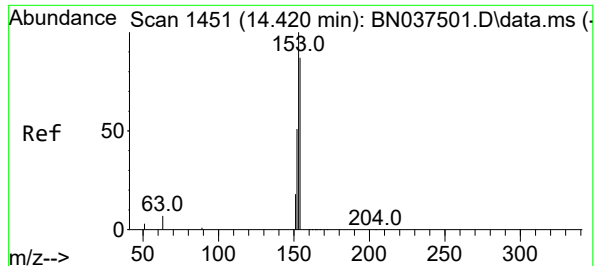
Ion Ratio Lower Upper

152 100

151 19.8 15.9 23.9

153 13.0 10.7 16.1

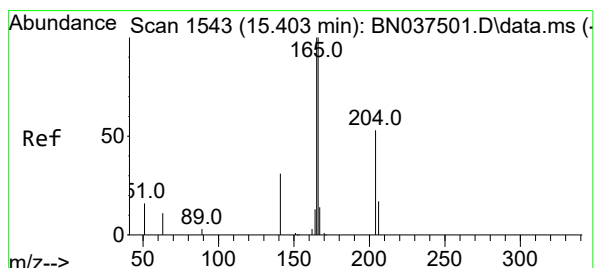
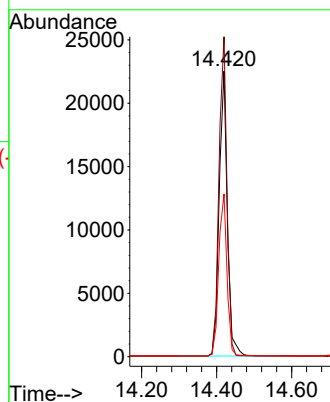
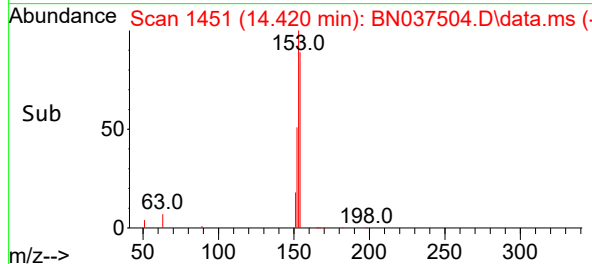
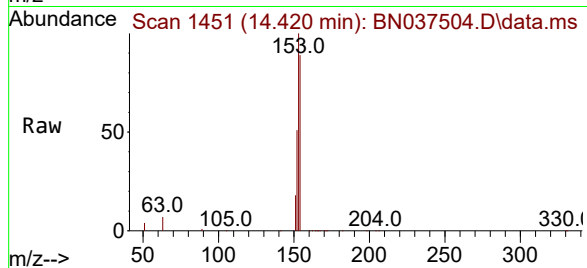




#17
Acenaphthene
Concen: 3.286 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

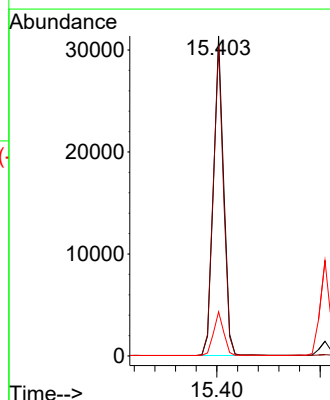
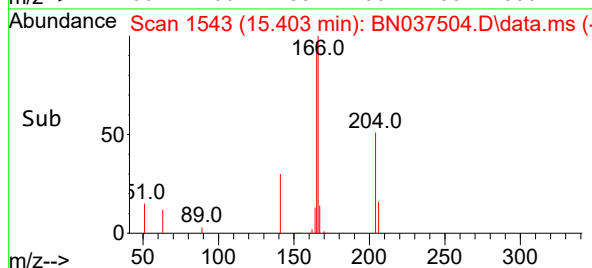
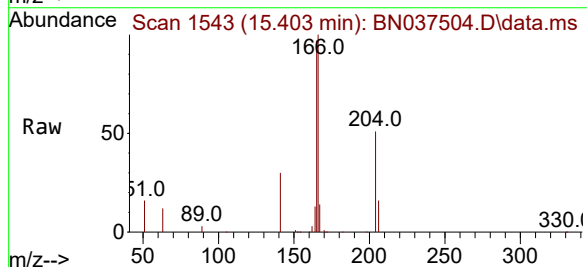
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

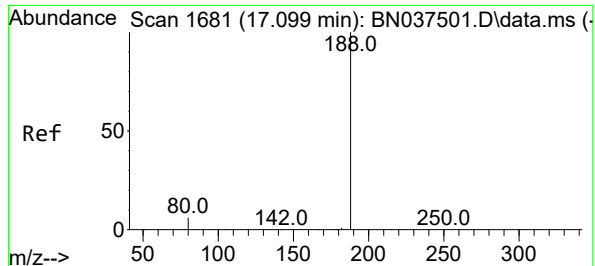
Tgt Ion:154 Resp: 33858
Ion Ratio Lower Upper
154 100
153 109.6 89.2 133.8
152 57.7 48.0 72.0



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

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

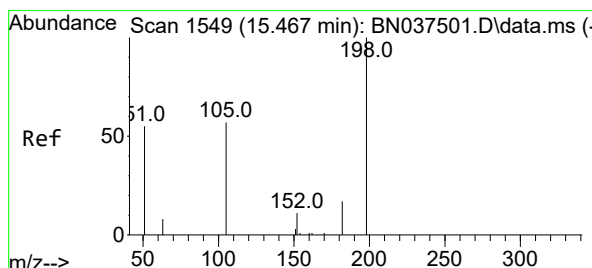
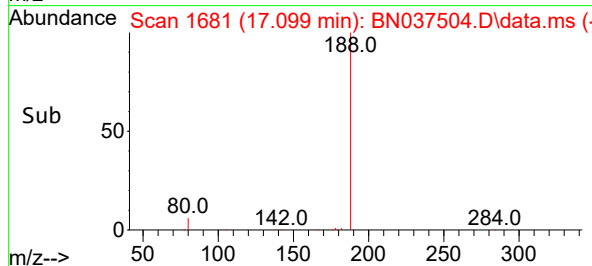
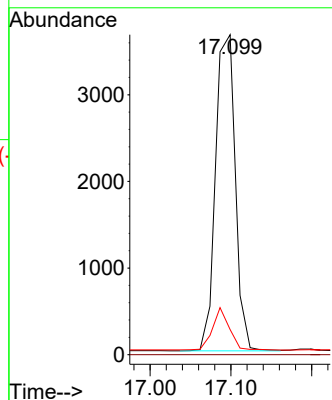
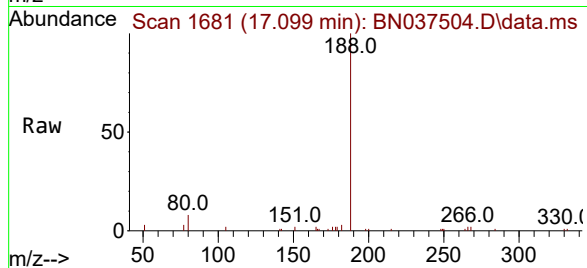
Tgt Ion:188 Resp: 6204

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.9 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.233 ng

RT: 15.478 min Scan# 1550

Delta R.T. 0.011 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

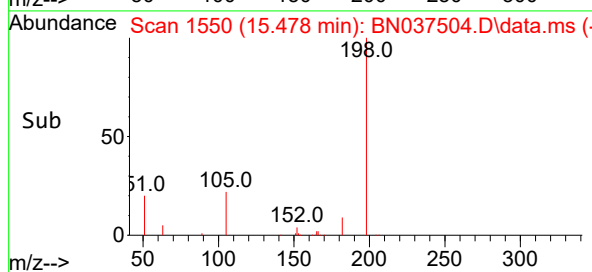
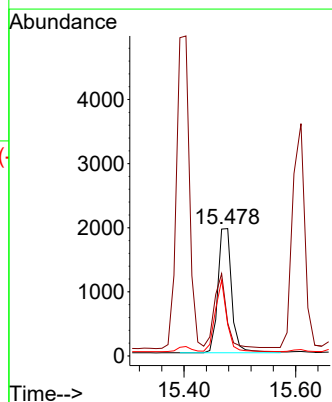
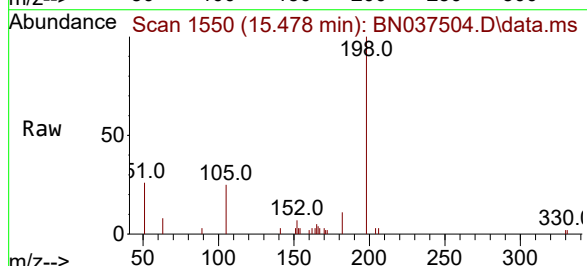
Tgt Ion:198 Resp: 3484

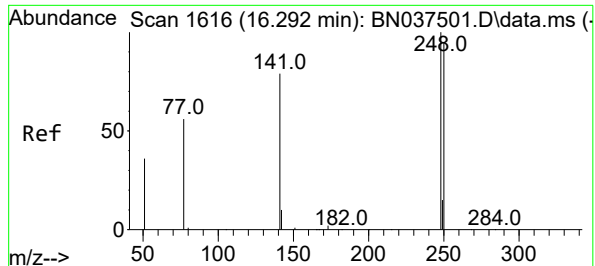
Ion Ratio Lower Upper

198 100

51 25.8 88.5 132.7#

105 24.7 61.2 91.8#

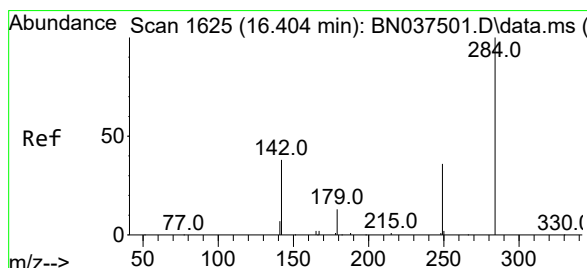
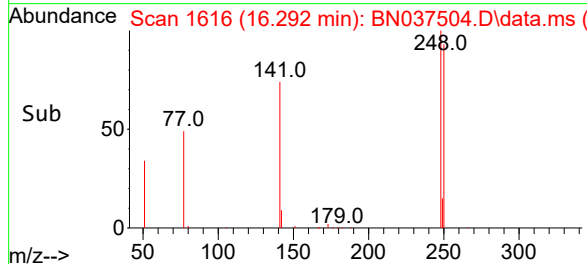
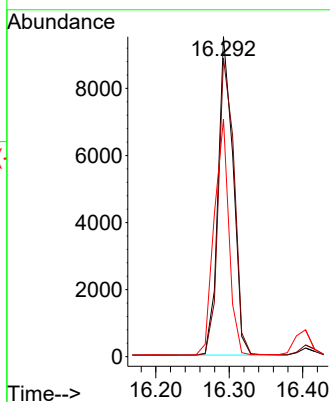
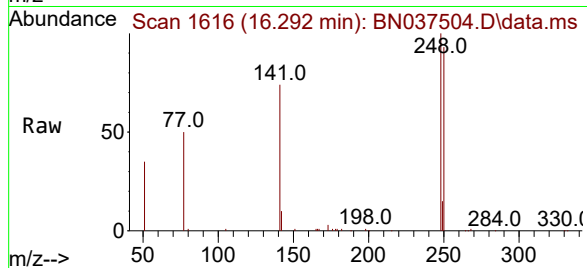




#21
4-Bromophenyl-phenylether
Concen: 3.395 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

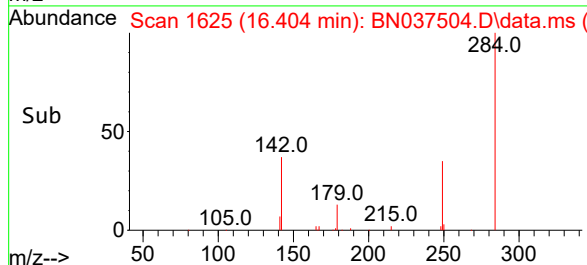
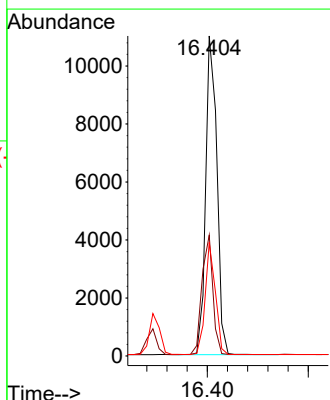
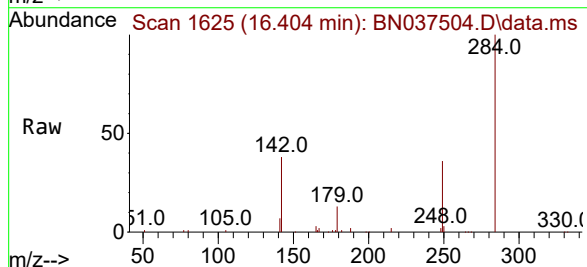
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

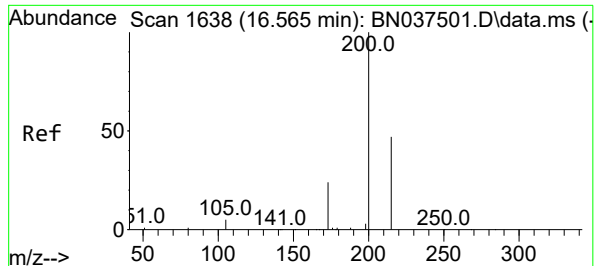
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.2	114.2
141	74.3	63.9	95.9



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

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





#23

Atrazine

Concen: 3.584 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

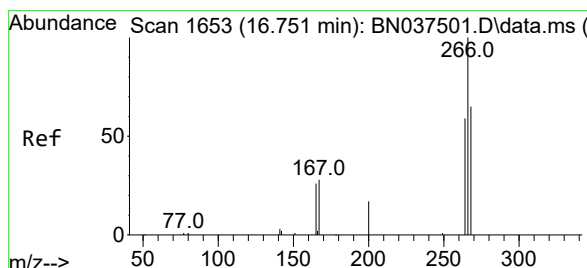
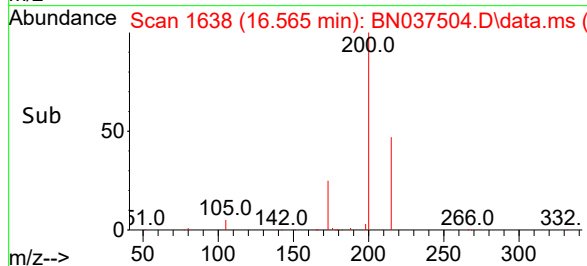
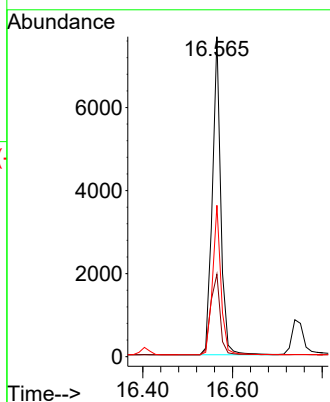
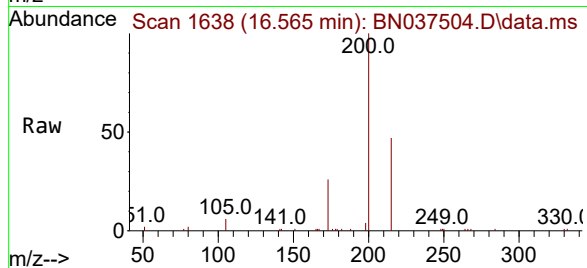
Tgt Ion:200 Resp: 9939

Ion Ratio Lower Upper

200 100

173 25.8 23.2 34.8

215 47.3 40.2 60.4



#24

Pentachlorophenol

Concen: 3.654 ng

RT: 16.751 min Scan# 1653

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

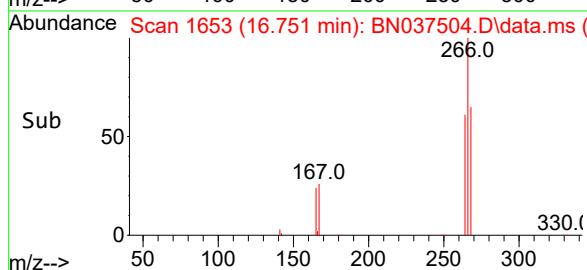
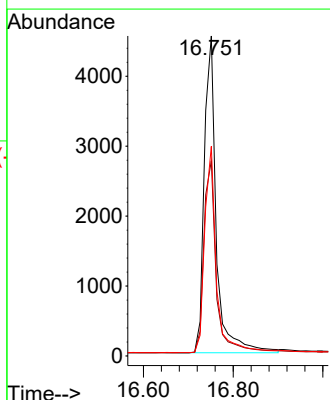
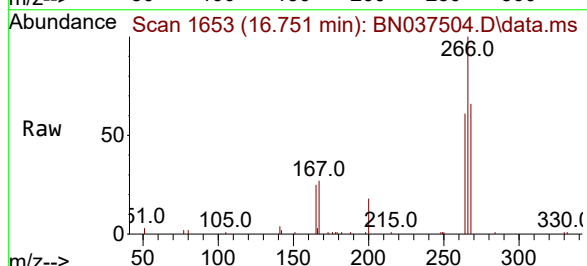
Tgt Ion:266 Resp: 8417

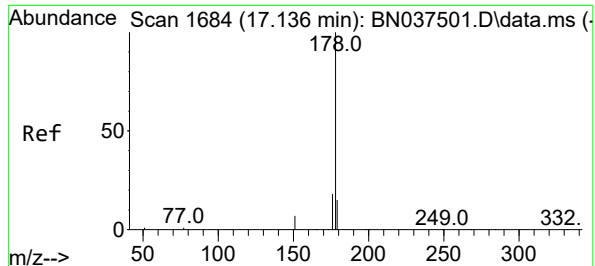
Ion Ratio Lower Upper

266 100

264 62.4 49.3 73.9

268 63.0 51.6 77.4

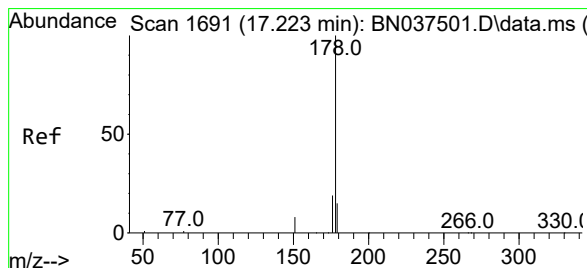
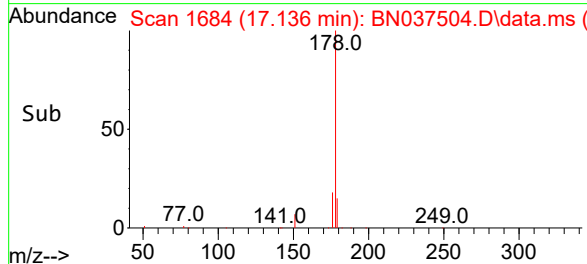
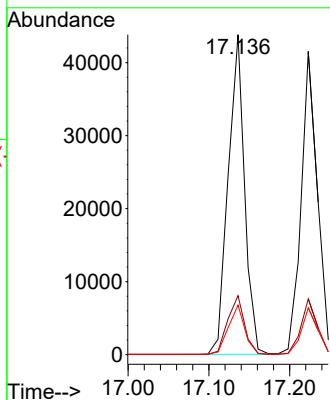
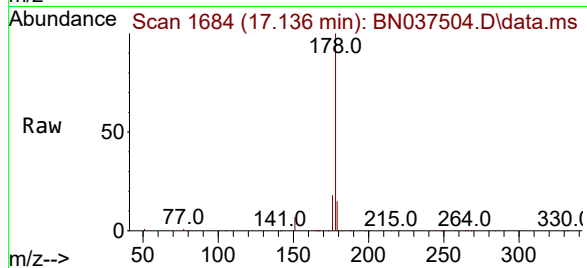




#25
Phenanthrene
Concen: 3.333 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

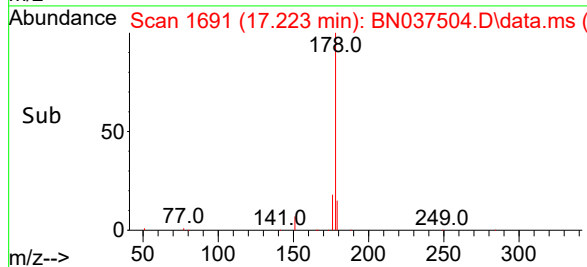
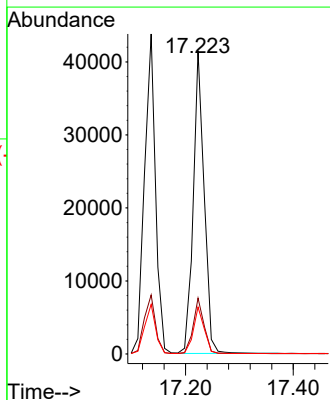
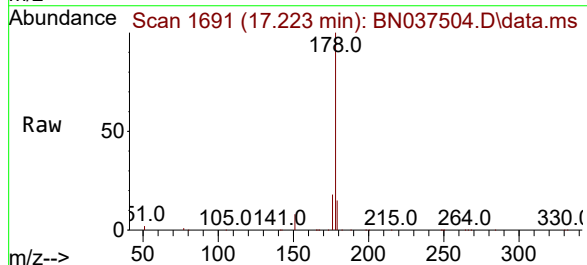
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

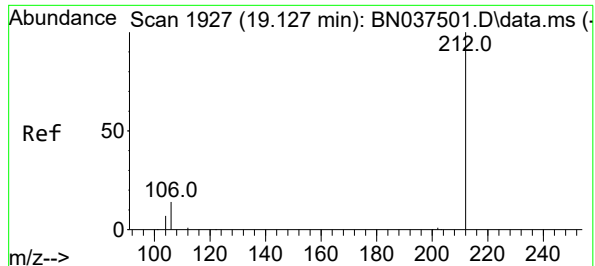
Tgt Ion:178 Resp: 61959
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.3 12.2 18.2



#26
Anthracene
Concen: 3.441 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

Tgt Ion:178 Resp: 58358
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.257 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

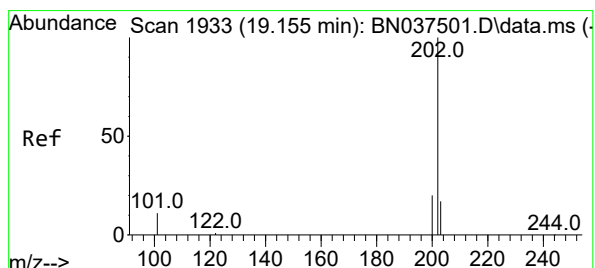
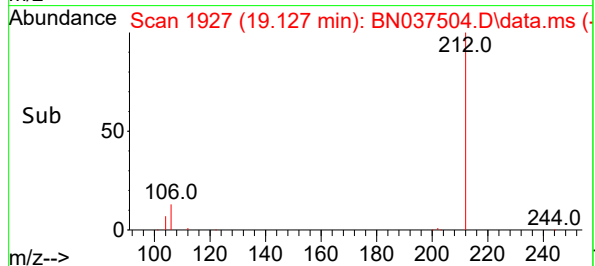
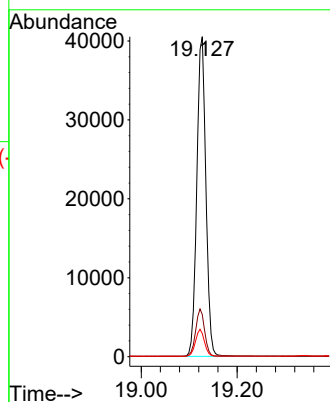
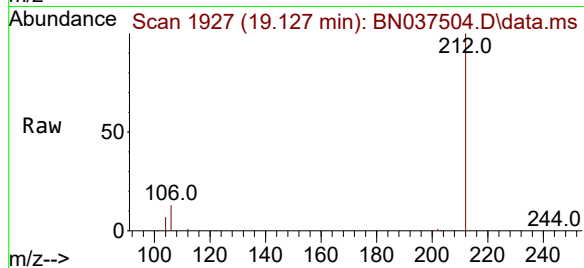
Tgt Ion:212 Resp: 53521

Ion Ratio Lower Upper

212 100

106 14.6 12.2 18.4

104 8.2 6.7 10.1



#28

Fluoranthene

Concen: 3.313 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

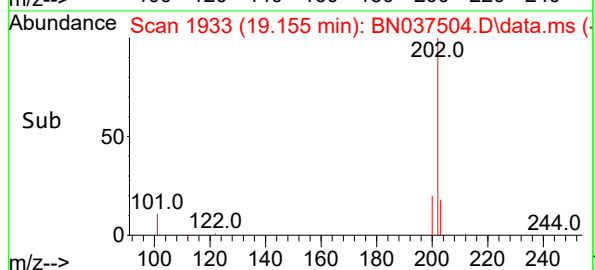
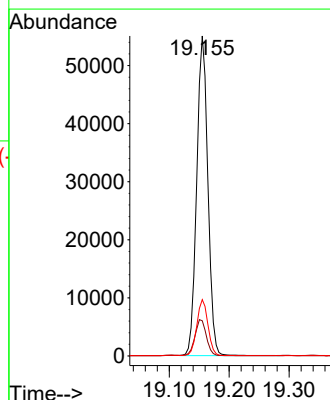
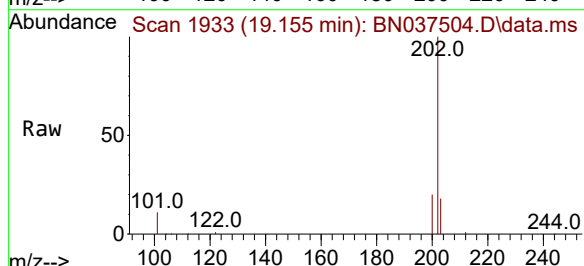
Tgt Ion:202 Resp: 71018

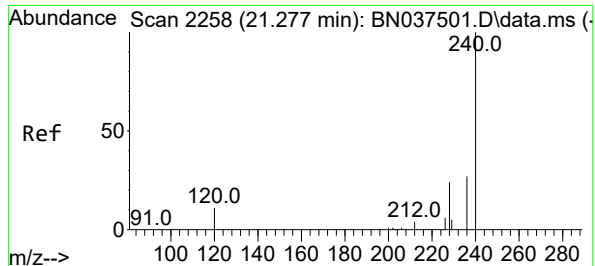
Ion Ratio Lower Upper

202 100

101 11.7 9.8 14.6

203 17.4 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

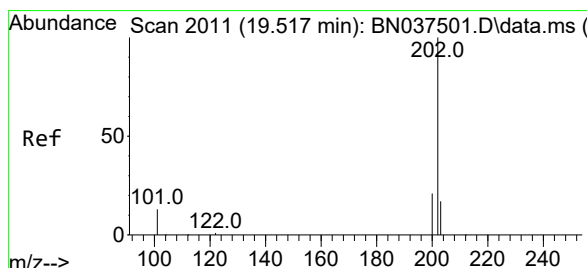
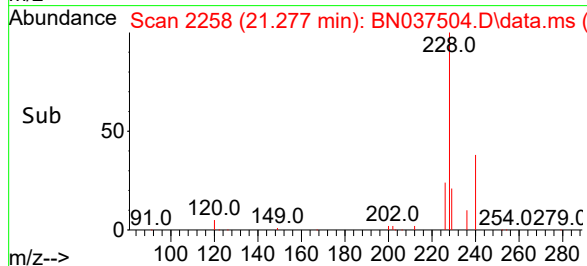
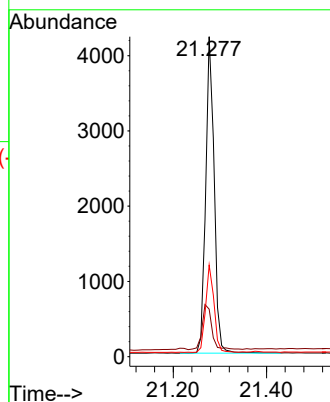
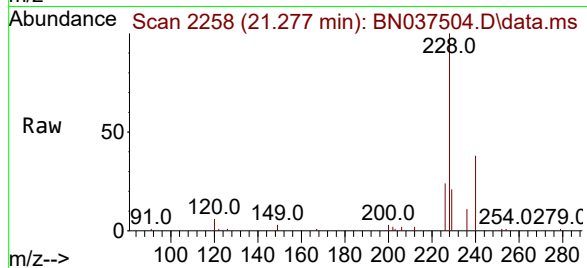
Tgt Ion:240 Resp: 5331

Ion Ratio Lower Upper

240 100

120 14.9 10.7 16.1

236 28.6 22.6 33.8



#30

Pyrene

Concen: 3.306 ng

RT: 19.517 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

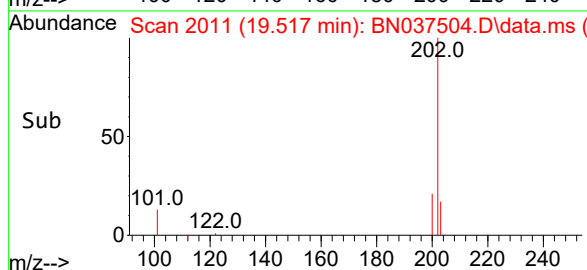
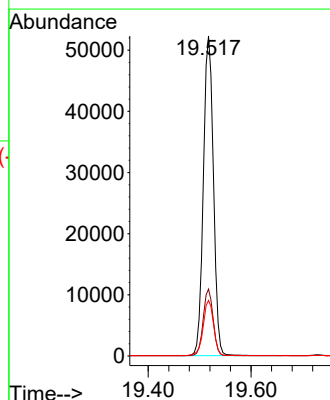
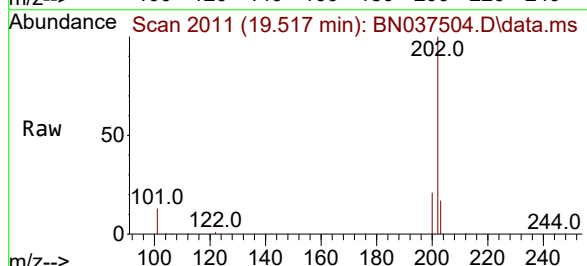
Tgt Ion:202 Resp: 71002

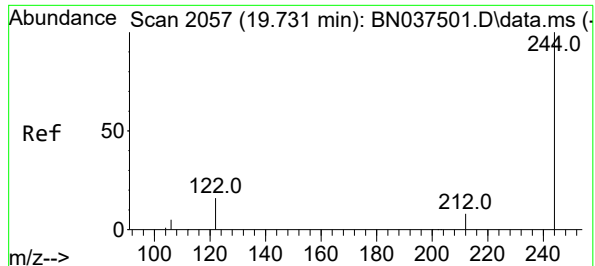
Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

203 17.8 14.3 21.5

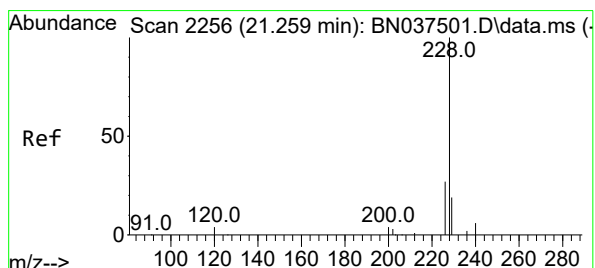
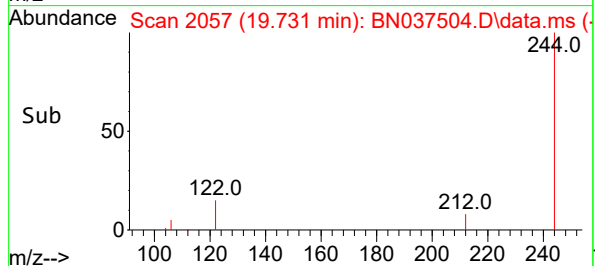
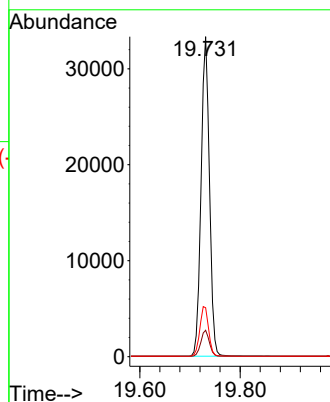
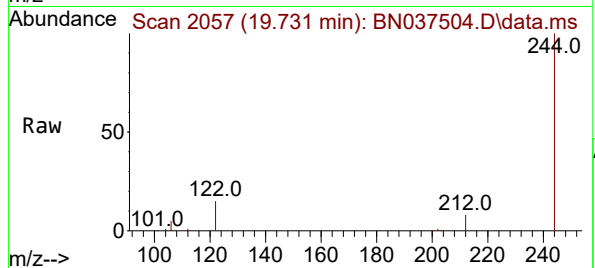




#31
Terphenyl-d14
Concen: 3.357 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037504.D
Acq: 15 Jul 2025 15:38

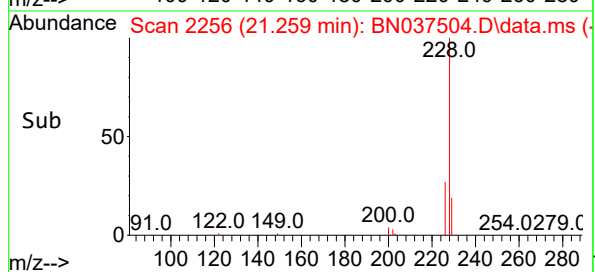
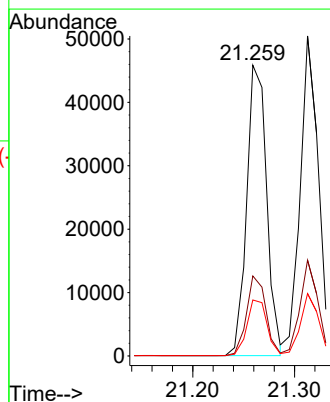
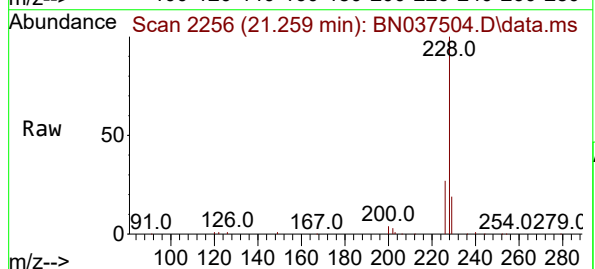
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

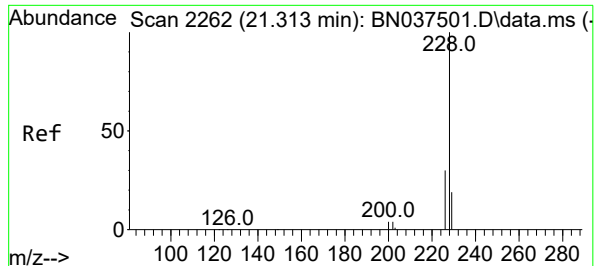
Tgt Ion:244 Resp: 38458
Ion Ratio Lower Upper
244 100
212 8.3 7.4 11.2
122 15.3 13.6 20.4



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

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





#33

Chrysene

Concen: 3.268 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

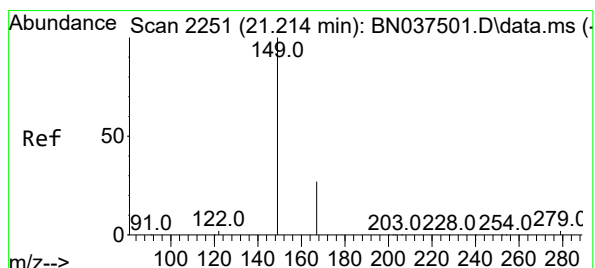
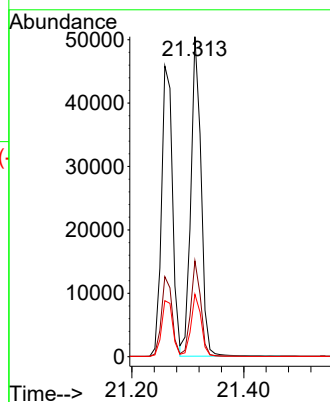
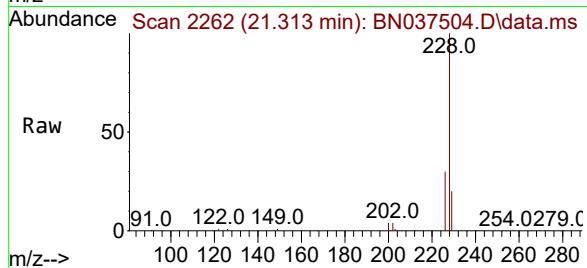
Tgt Ion:228 Resp: 63542

Ion Ratio Lower Upper

228 100

226 30.0 24.2 36.4

229 19.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.519 ng

RT: 21.223 min Scan# 2252

Delta R.T. 0.009 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

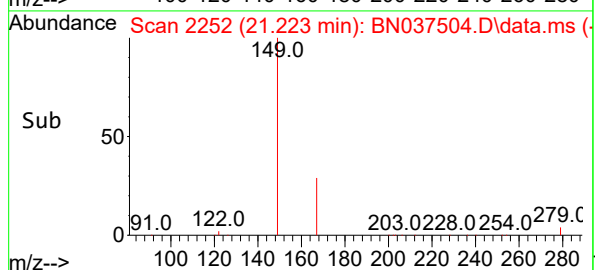
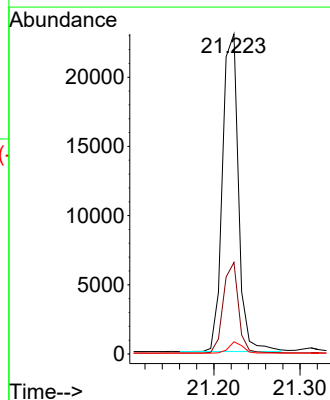
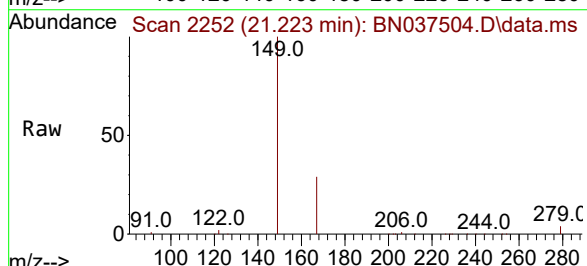
Tgt Ion:149 Resp: 29561

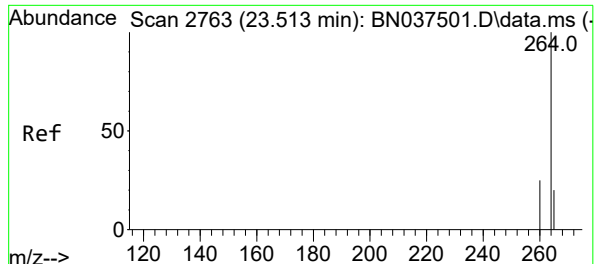
Ion Ratio Lower Upper

149 100

167 27.0 21.8 32.8

279 3.1 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.519 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037504.D

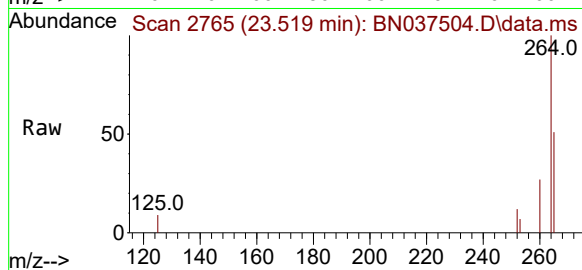
Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



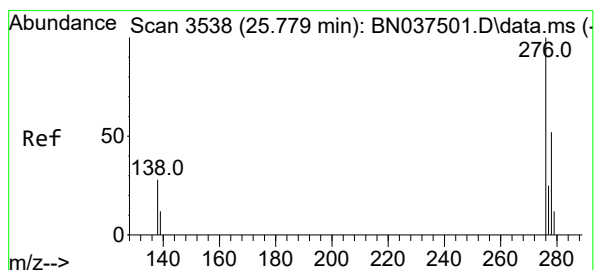
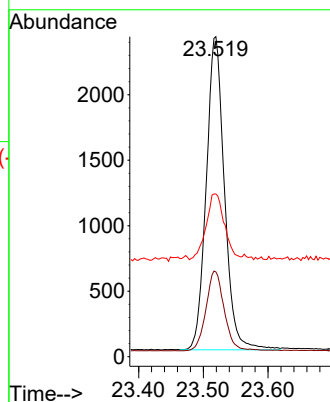
Tgt Ion:264 Resp: 4672

Ion Ratio Lower Upper

264 100

260 26.5 21.2 31.8

265 50.8 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.467 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.009 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

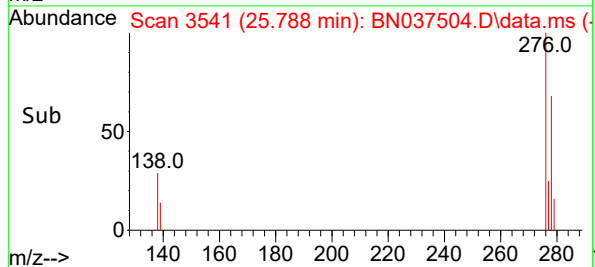
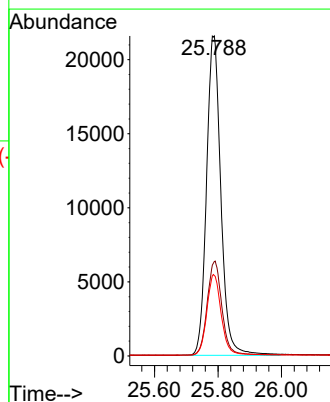
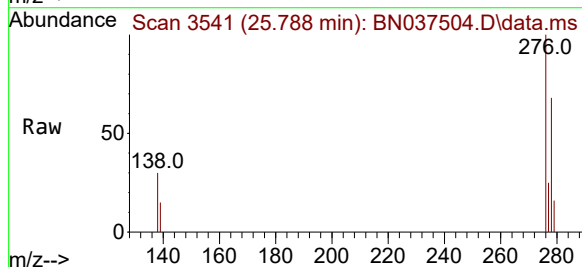
Tgt Ion:276 Resp: 67476

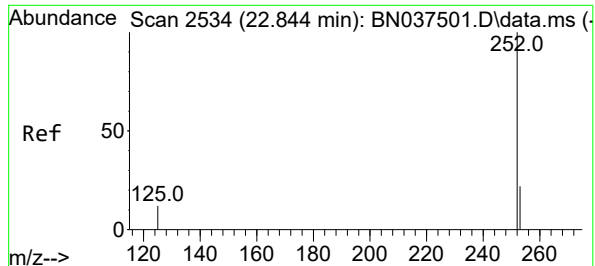
Ion Ratio Lower Upper

276 100

138 30.2 24.0 36.0

277 25.2 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 3.407 ng

RT: 22.847 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

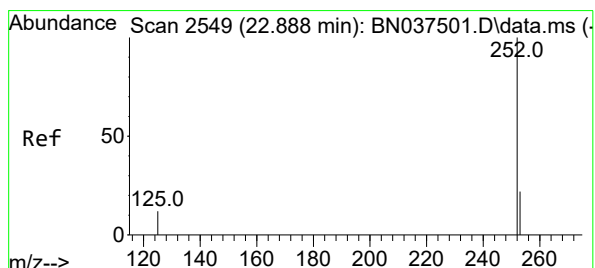
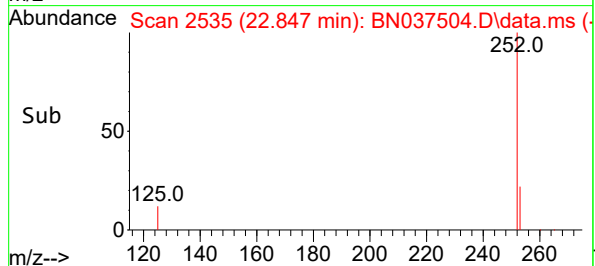
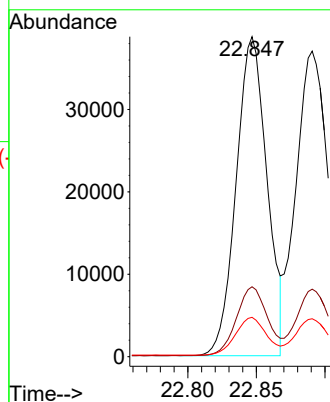
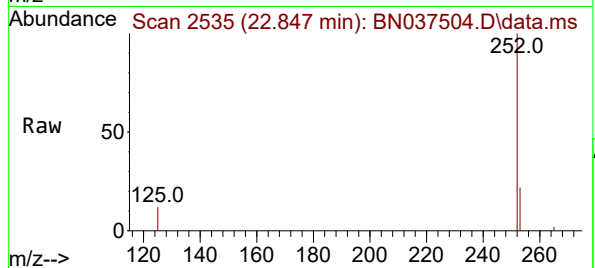
Tgt Ion:252 Resp: 60420

Ion Ratio Lower Upper

252 100

253 21.9 19.5 29.3

125 12.3 13.0 19.6#



#38

Benzo(k)fluoranthene

Concen: 3.450 ng

RT: 22.891 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

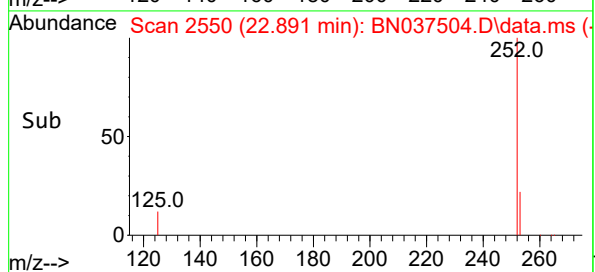
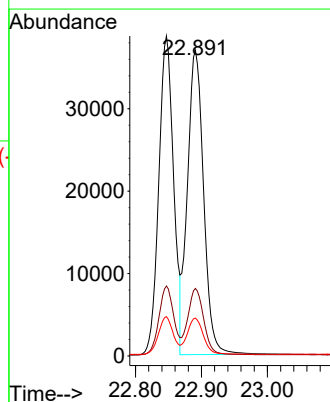
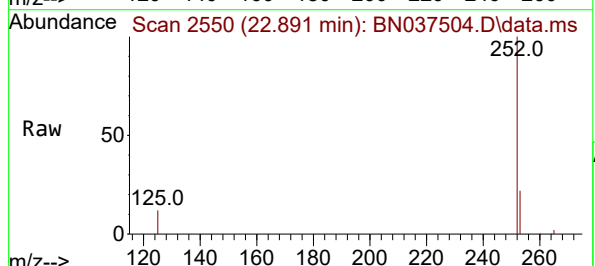
Tgt Ion:252 Resp: 63137

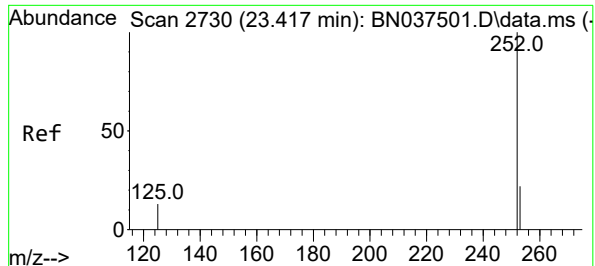
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

125 12.4 13.1 19.7#





#39

Benzo(a)pyrene

Concen: 3.459 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

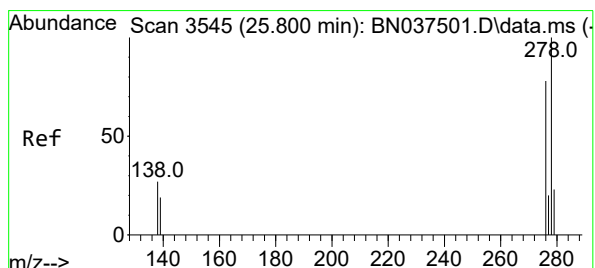
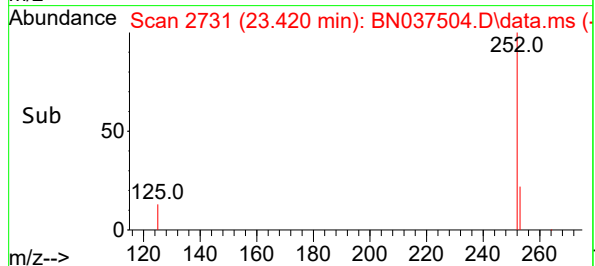
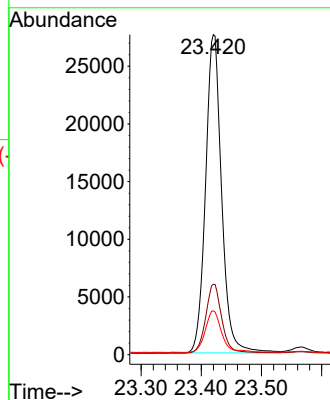
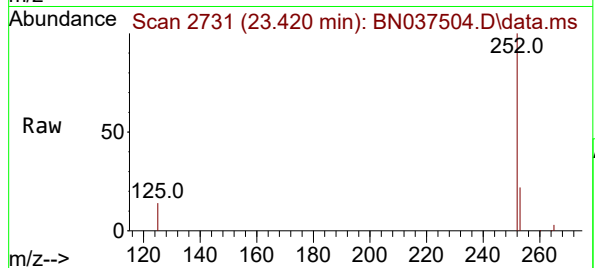
Tgt Ion:252 Resp: 51171

Ion Ratio Lower Upper

252 100

253 22.0 19.9 29.9

125 13.7 15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 3.516 ng

RT: 25.800 min Scan# 3545

Delta R.T. 0.000 min

Lab File: BN037504.D

Acq: 15 Jul 2025 15:38

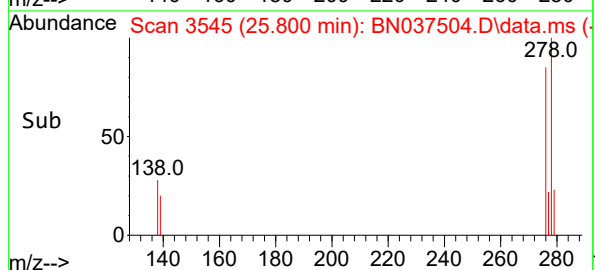
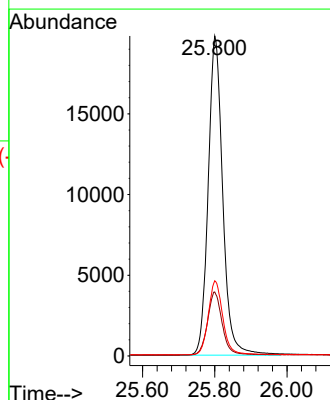
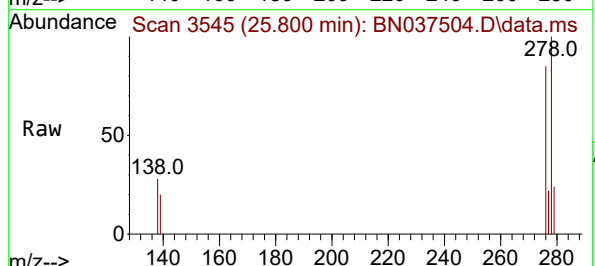
Tgt Ion:278 Resp: 55412

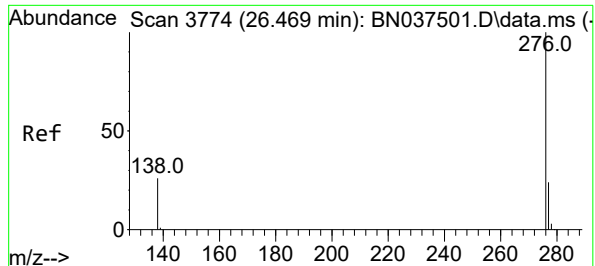
Ion Ratio Lower Upper

278 100

139 20.0 17.5 26.3

279 23.5 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 3.430 ng

RT: 26.472 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037504.D

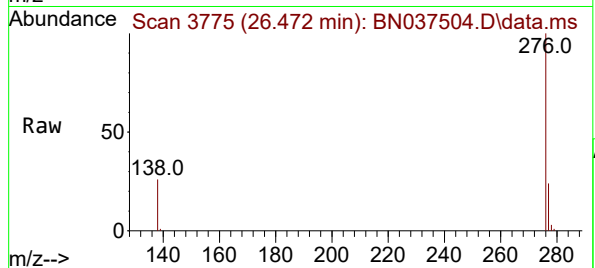
Acq: 15 Jul 2025 15:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



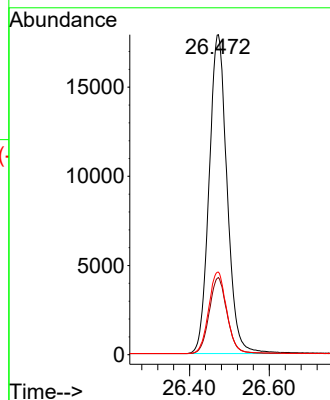
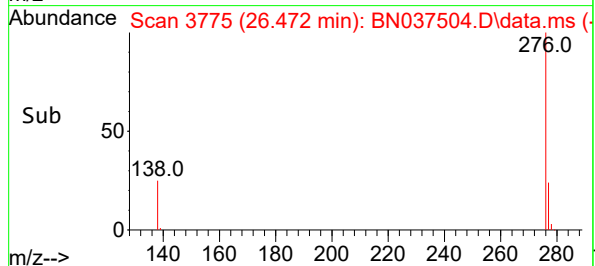
Tgt Ion:276 Resp: 55959

Ion Ratio Lower Upper

276 100

277 24.1 20.9 31.3

138 25.8 22.6 33.8



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

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

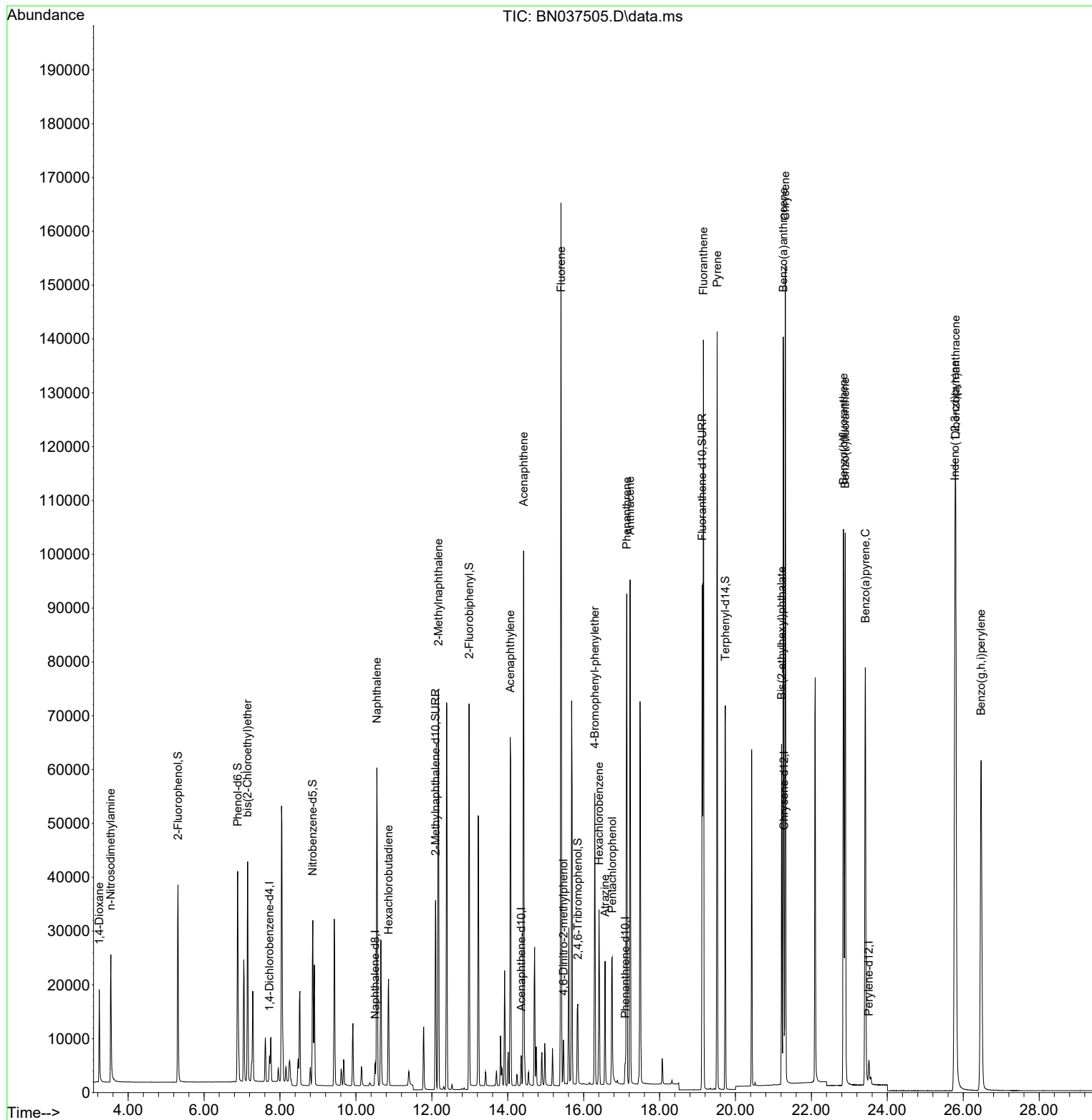
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2230	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5395	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	3026	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	5918	0.400	ng	0.00
29) Chrysene-d12	21.277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

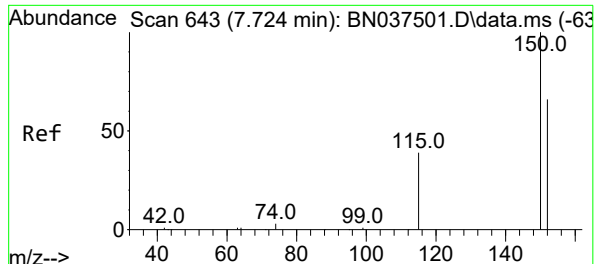
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

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

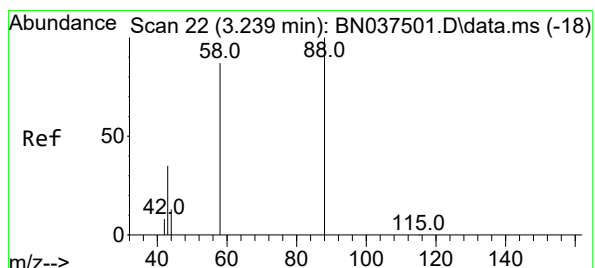
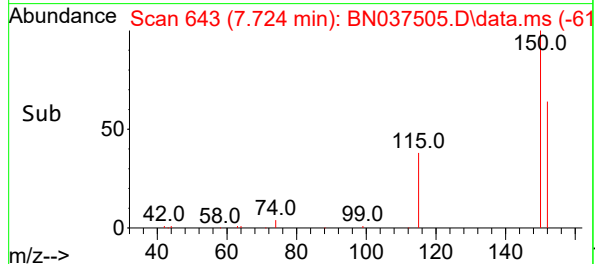
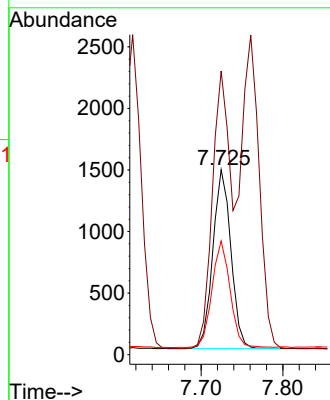
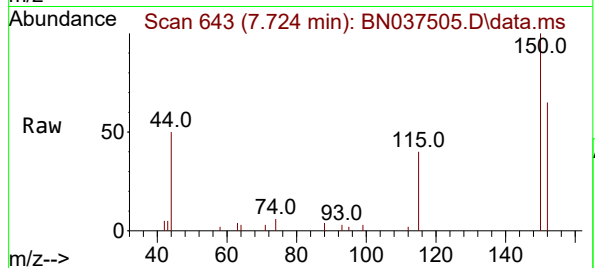




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

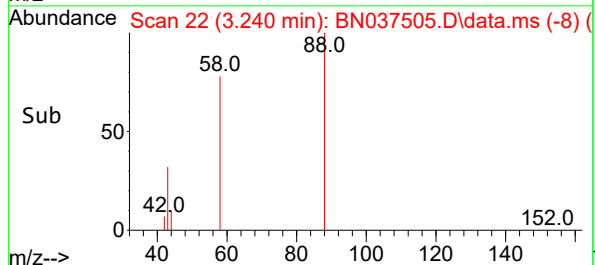
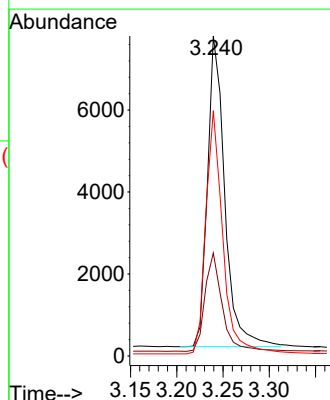
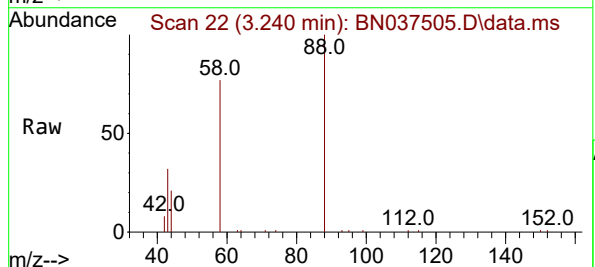
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

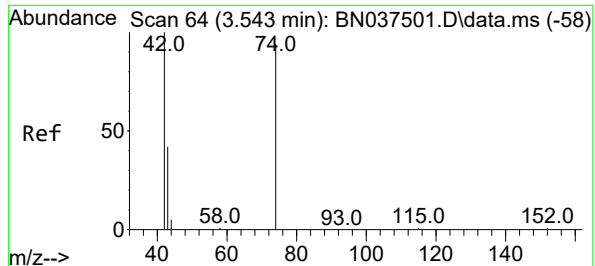
Tgt Ion:152 Resp: 2230
Ion Ratio Lower Upper
152 100
150 153.4 119.8 179.8
115 61.5 49.1 73.7



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

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

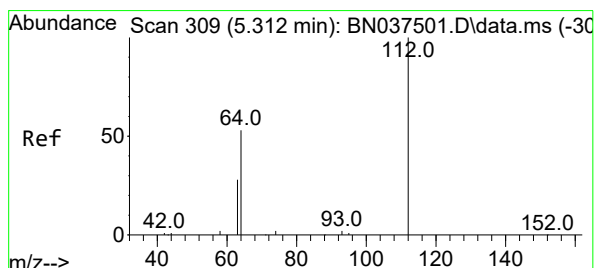
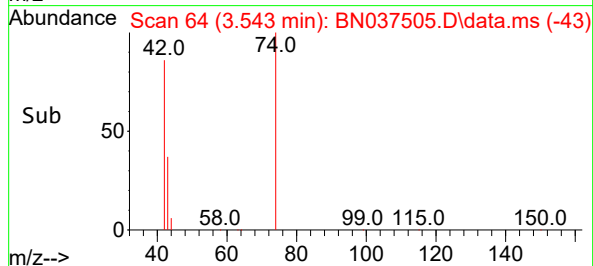
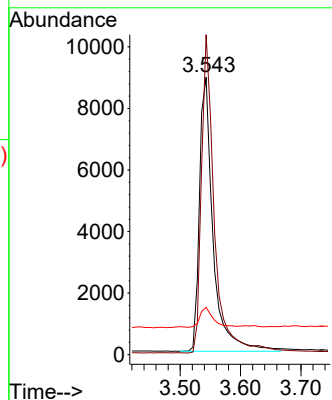
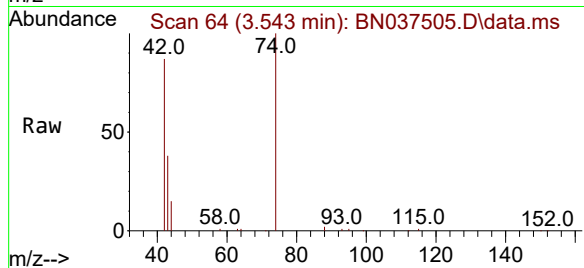




#3
n-Nitrosodimethylamine
Concen: 5.177 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

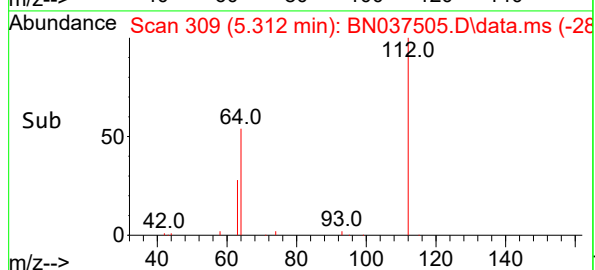
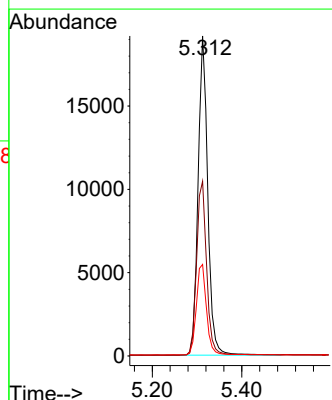
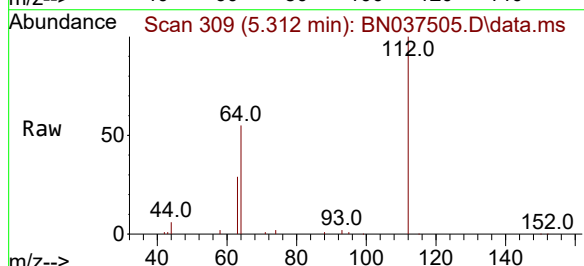
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

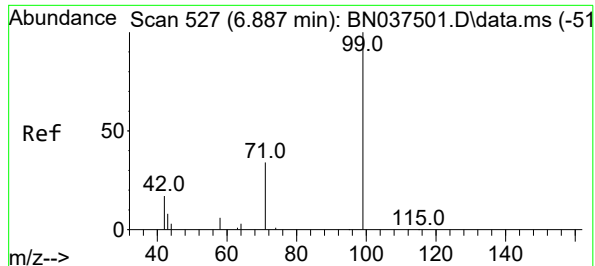
Tgt Ion: 42 Resp: 13961
Ion Ratio Lower Upper
42 100
74 110.6 91.8 137.6
44 7.0 15.0 22.6#



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

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

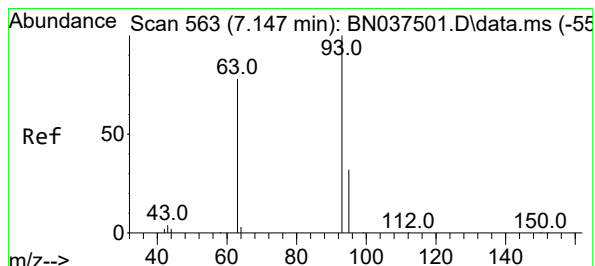
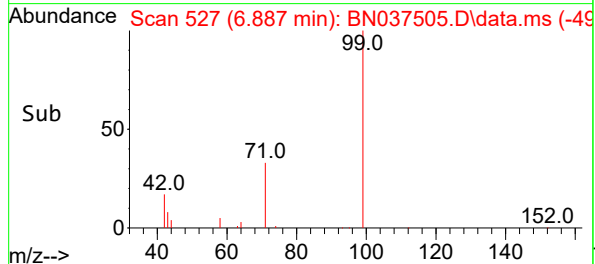
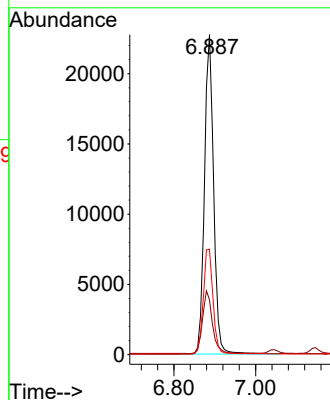
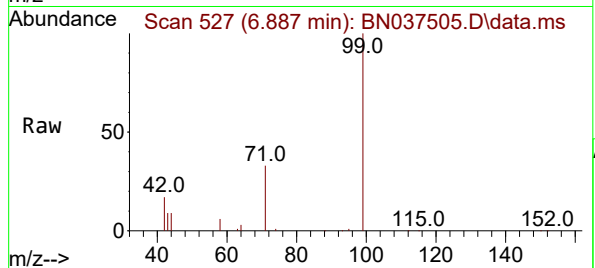




#5
Phenol-d6
Concen: 5.139 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

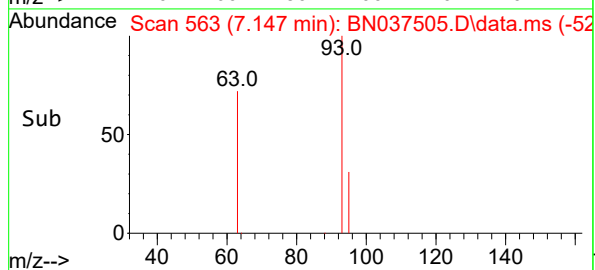
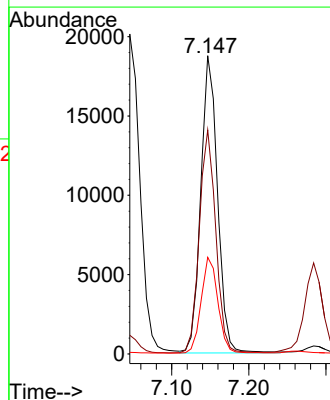
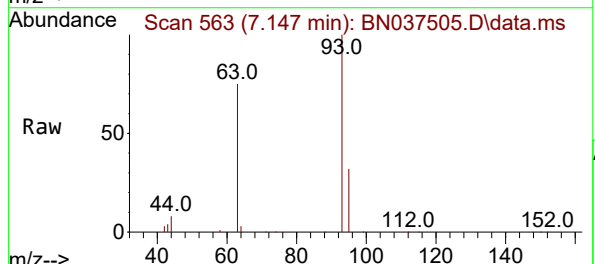
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

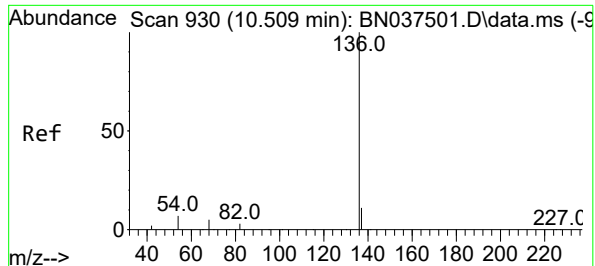
Tgt Ion: 99 Resp: 35549
Ion Ratio Lower Upper
99 100
42 21.0 17.1 25.7
71 34.9 27.8 41.8



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

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

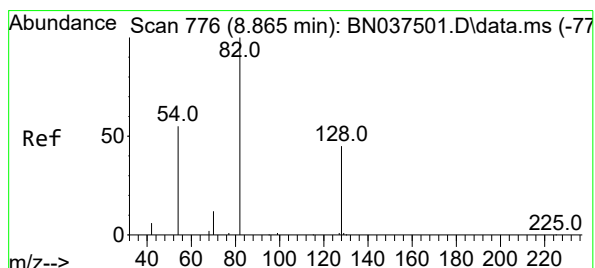
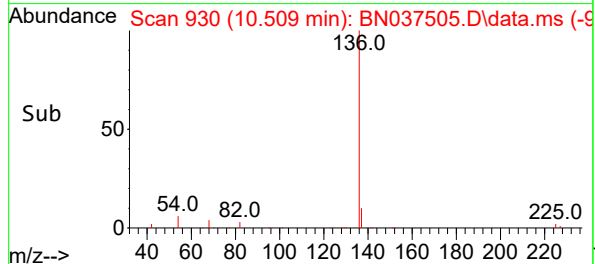
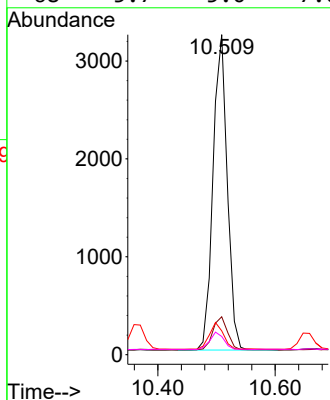
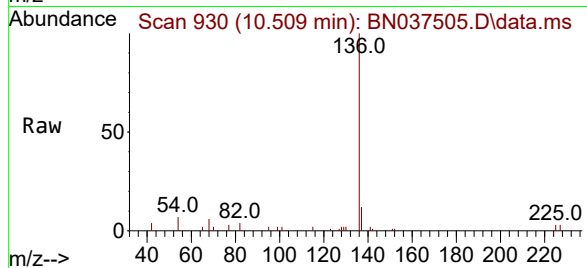




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

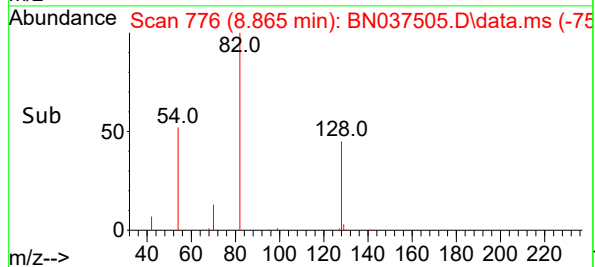
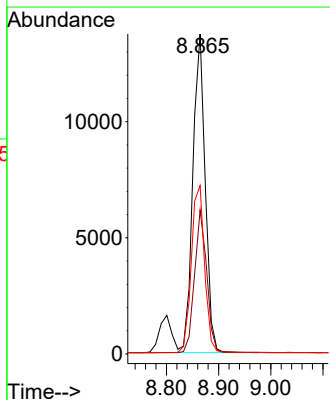
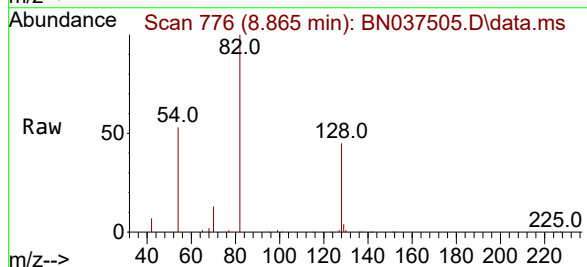
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

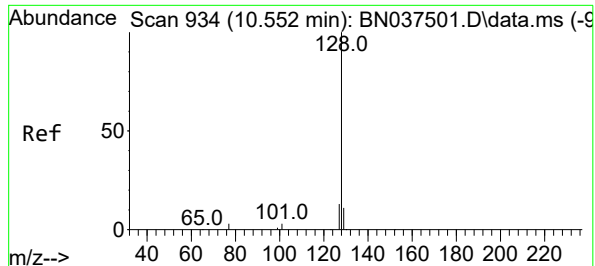
Tgt Ion:	136	Resp:	5395
Ion Ratio	Lower	Upper	
136	100		
137	11.9	9.8	14.8
54	7.5	6.6	9.8
68	5.7	5.0	7.6



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

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

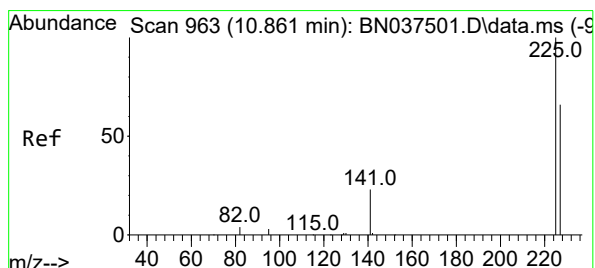
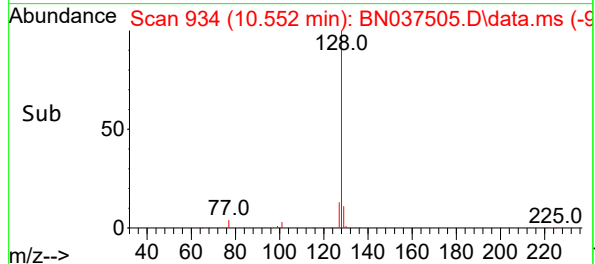
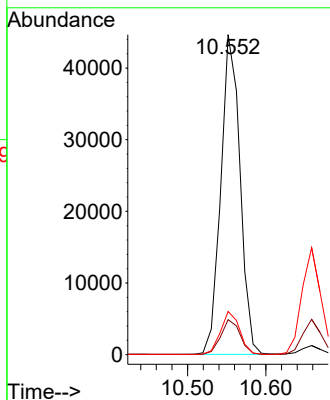
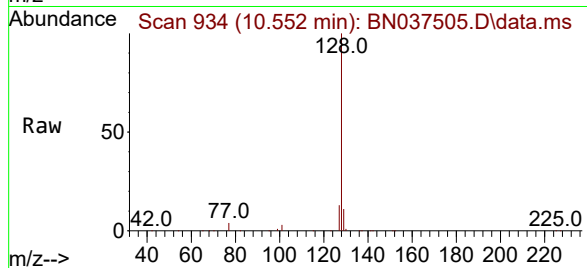




#9
Naphthalene
Concen: 5.279 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

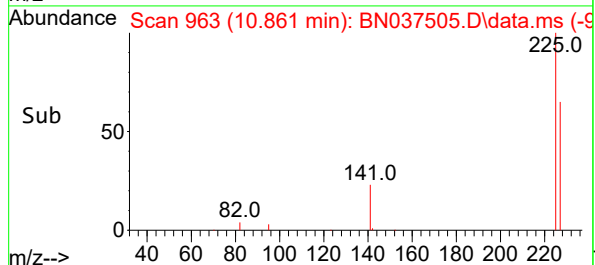
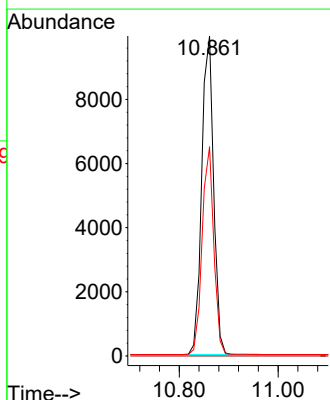
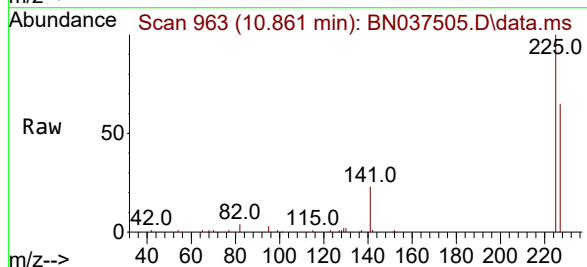
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

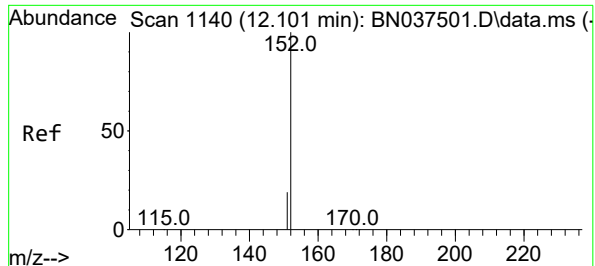
Tgt Ion:128 Resp: 75946
Ion Ratio Lower Upper
128 100
129 11.0 9.7 14.5
127 13.5 11.5 17.3



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

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

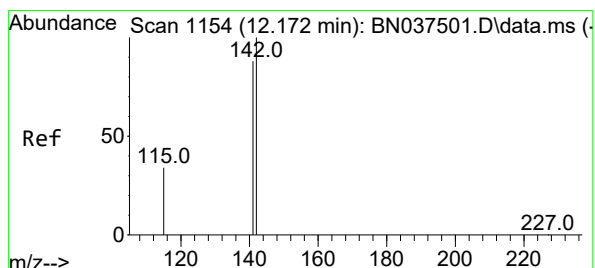
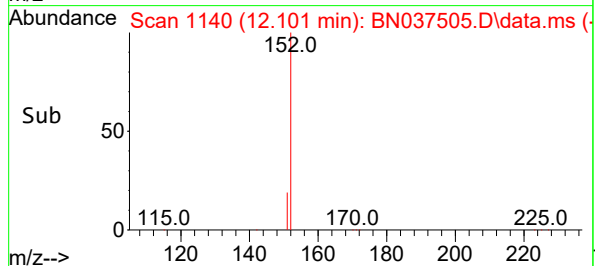
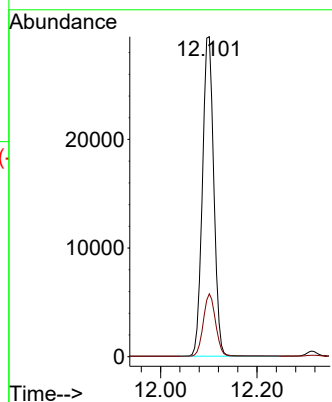
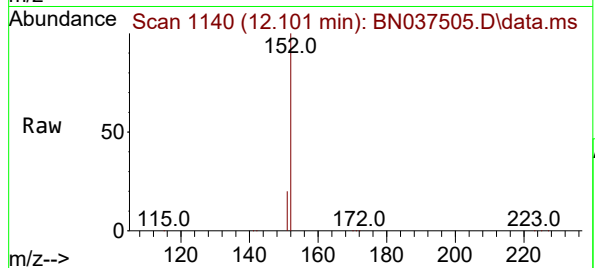




#11
2-Methylnaphthalene-d10
Concen: 6.198 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

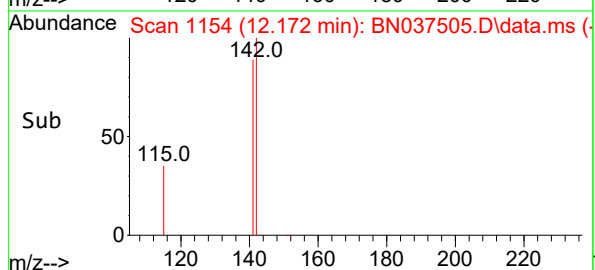
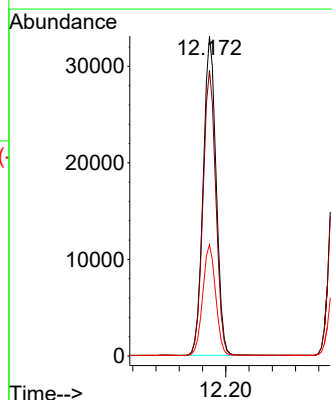
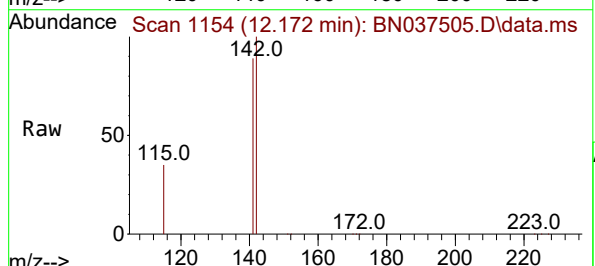
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

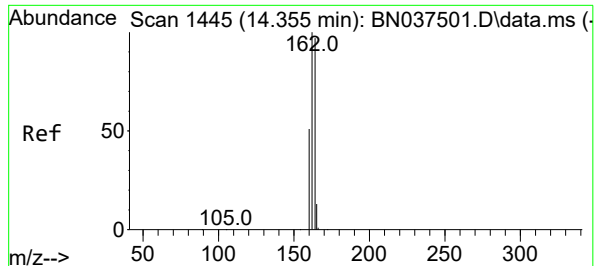
Tgt Ion:152 Resp: 47958
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



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

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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.356 min Scan# 1445

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

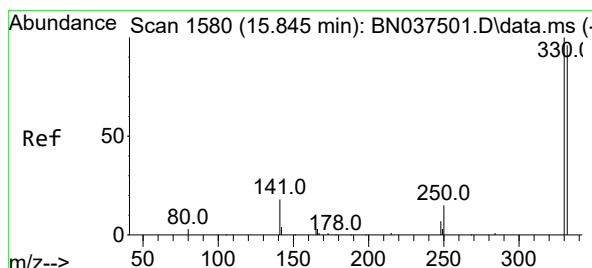
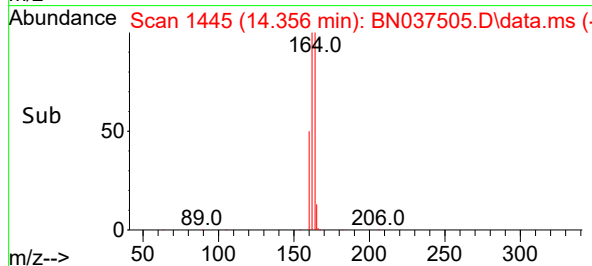
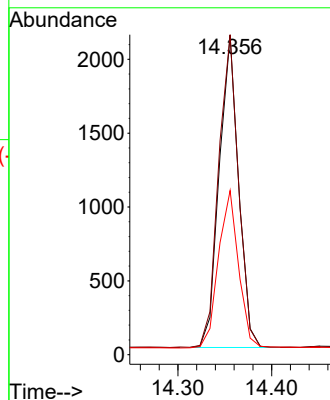
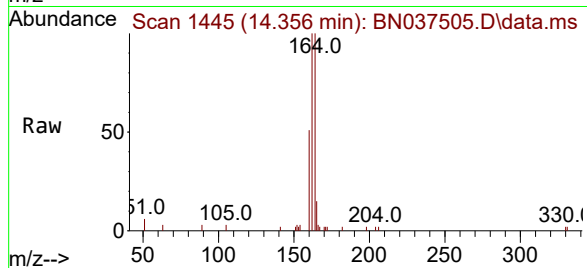
Tgt Ion:164 Resp: 3026

Ion	Ratio	Lower	Upper

164	100		

162	100.1	82.0	123.0

160	51.4	42.4	63.6



#14

2,4,6-Tribromophenol

Concen: 6.319 ng

RT: 15.845 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

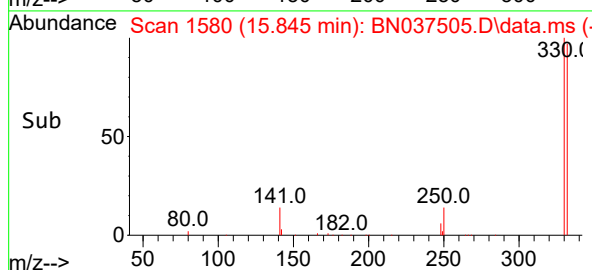
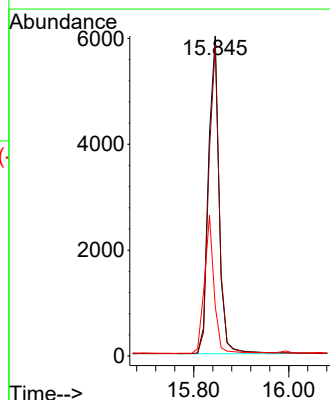
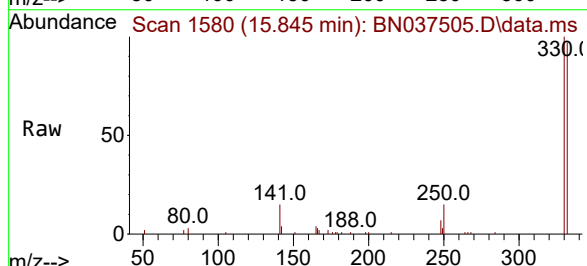
Tgt Ion:330 Resp: 9399

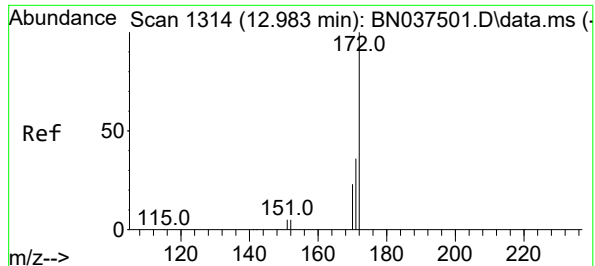
Ion	Ratio	Lower	Upper

330	100		

332	95.9	76.1	114.1

141	39.7	33.4	50.0





#15

2-Fluorobiphenyl

Concen: 5.761 ng

RT: 12.983 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

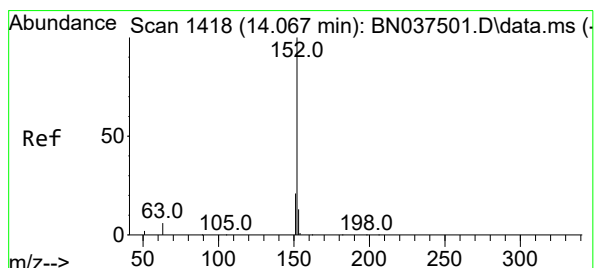
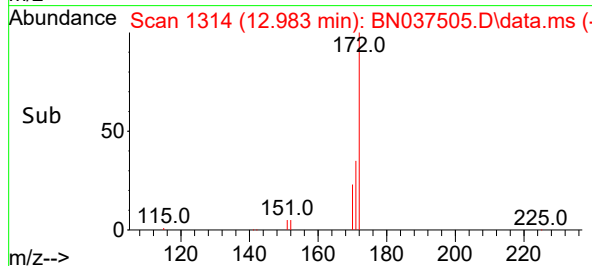
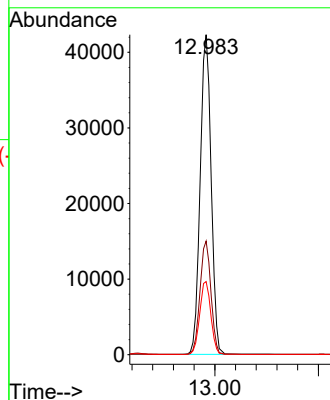
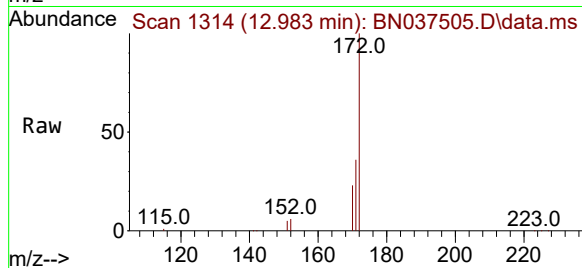
Tgt Ion:172 Resp: 90652

Ion Ratio Lower Upper

172 100

171 35.5 29.4 44.2

170 22.9 19.4 29.0



#16

Acenaphthylene

Concen: 5.528 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

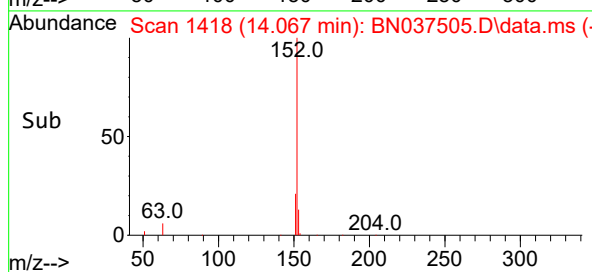
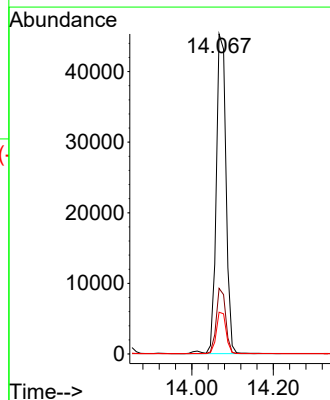
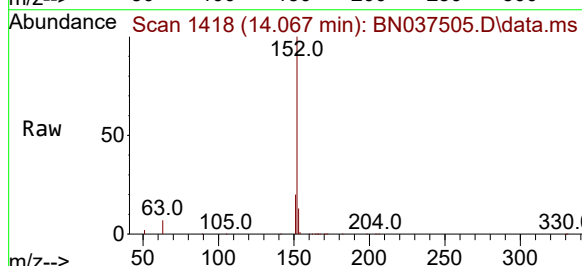
Tgt Ion:152 Resp: 74932

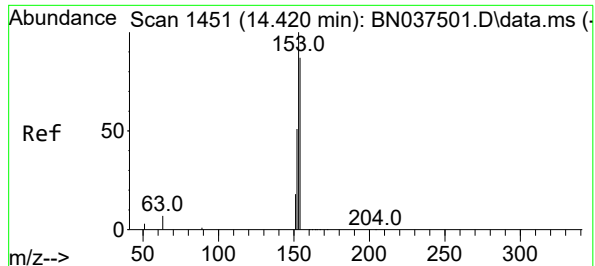
Ion Ratio Lower Upper

152 100

151 19.7 15.9 23.9

153 13.0 10.7 16.1

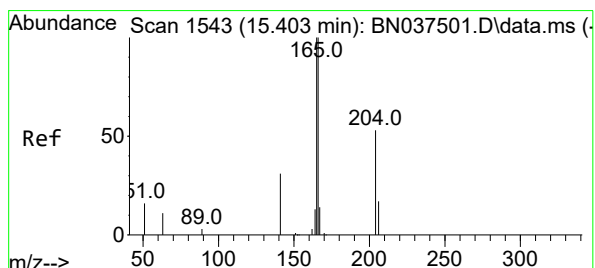
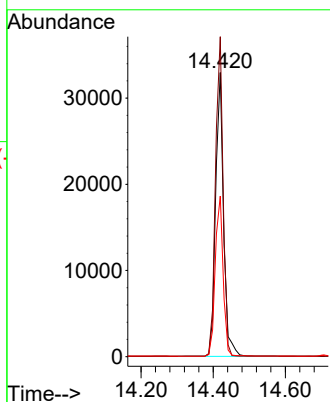
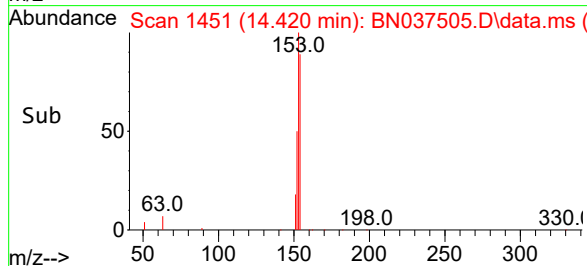
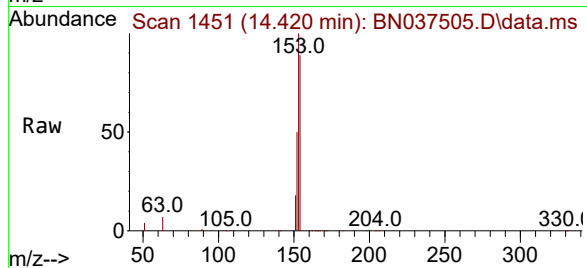




#17
Acenaphthene
Concen: 5.417 ng
RT: 14.420 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

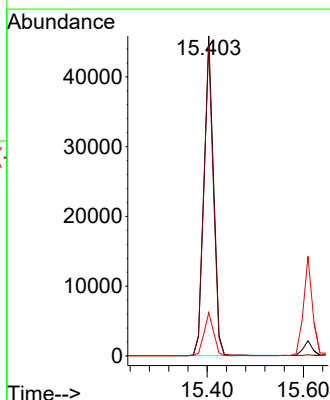
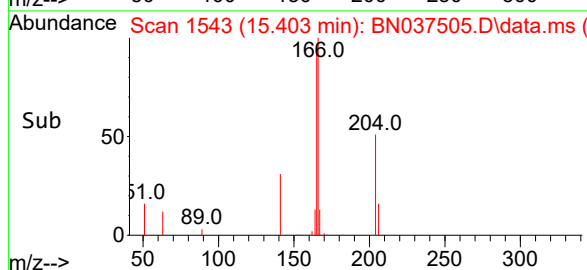
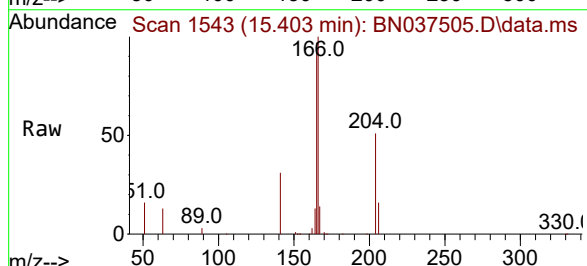
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

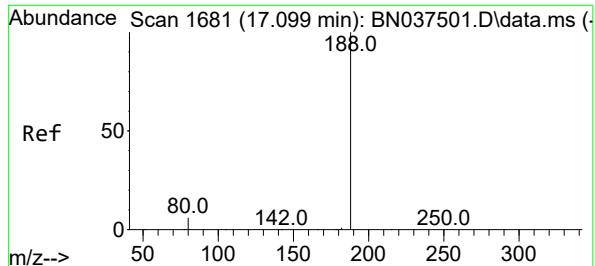
Tgt Ion:154 Resp: 49935
Ion Ratio Lower Upper
154 100
153 108.5 89.2 133.8
152 56.3 48.0 72.0



#18
Fluorene
Concen: 5.474 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

Tgt Ion:166 Resp: 64957
Ion Ratio Lower Upper
166 100
165 95.0 78.1 117.1
167 13.1 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

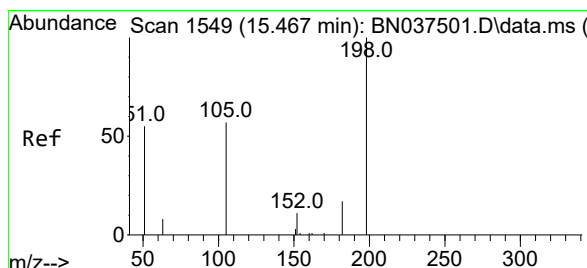
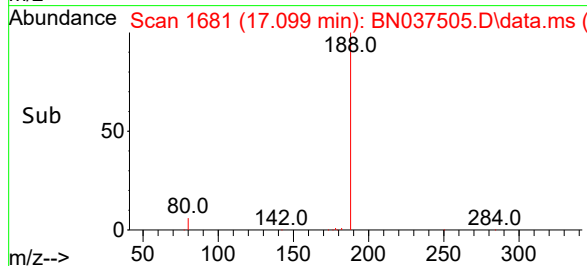
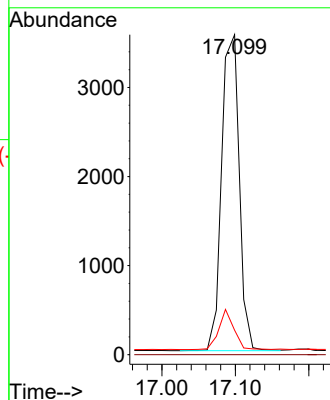
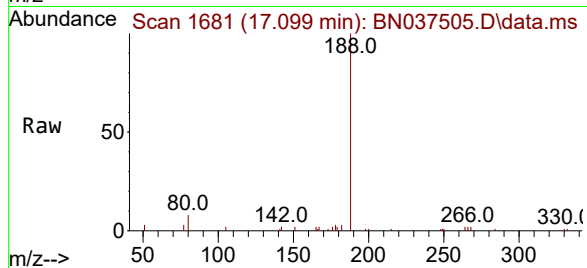
Tgt Ion:188 Resp: 5918

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.6 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 4.991 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

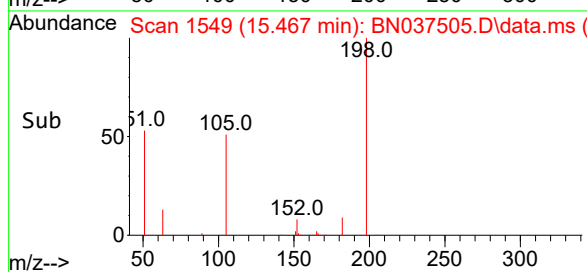
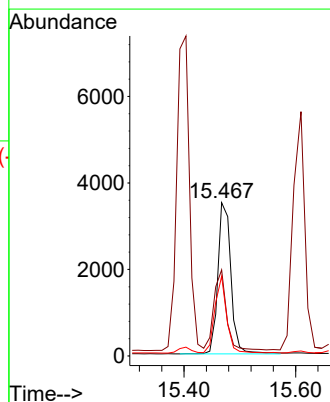
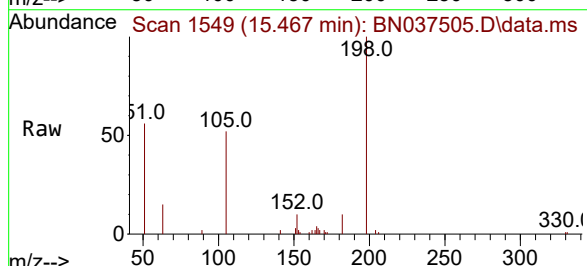
Tgt Ion:198 Resp: 5939

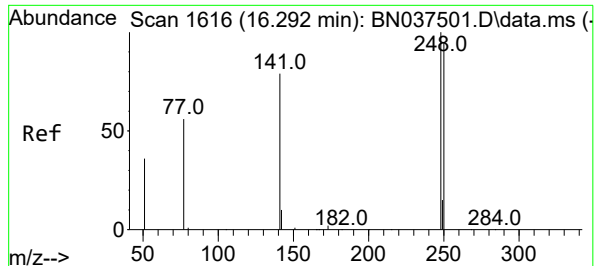
Ion Ratio Lower Upper

198 100

51 56.1 88.5 132.7#

105 52.0 61.2 91.8#

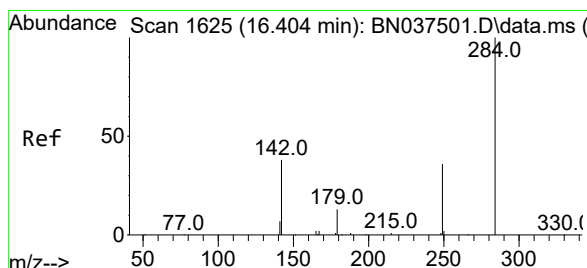
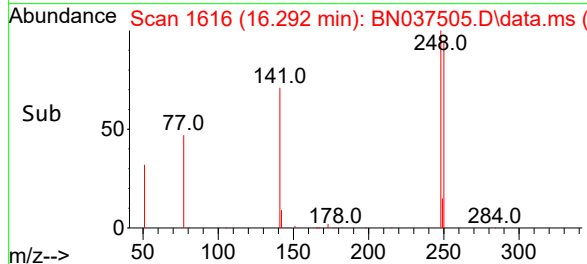
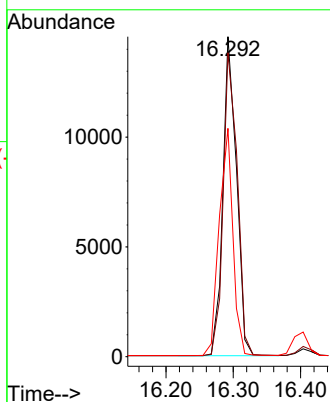
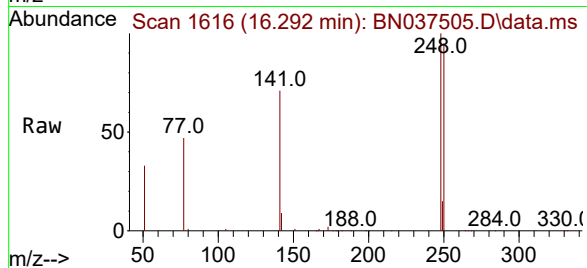




#21
4-Bromophenyl-phenylether
Concen: 5.344 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

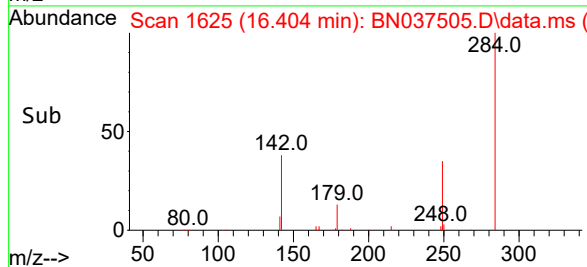
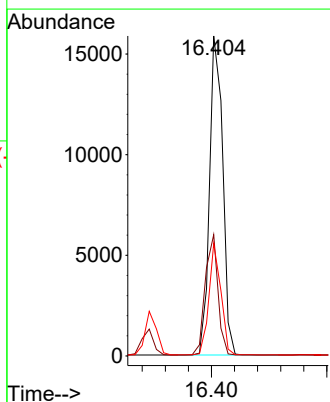
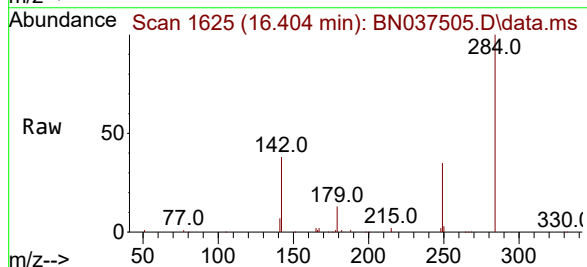
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

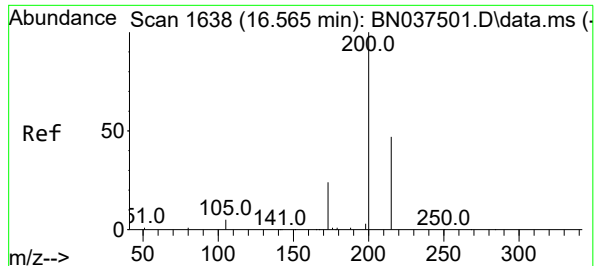
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.0	76.2	114.2
141	71.4	63.9	95.9



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

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





#23

Atrazine

Concen: 6.150 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

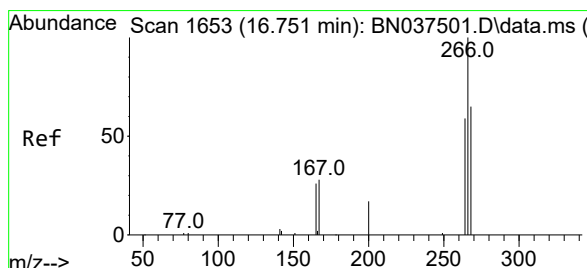
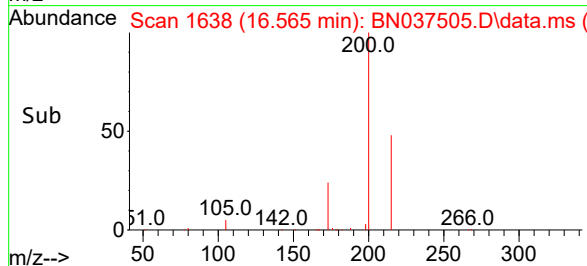
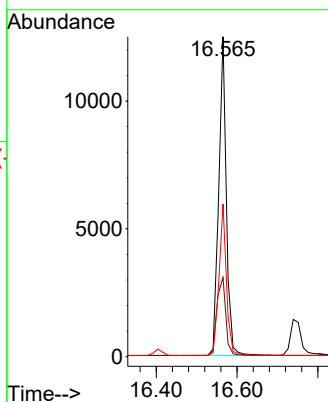
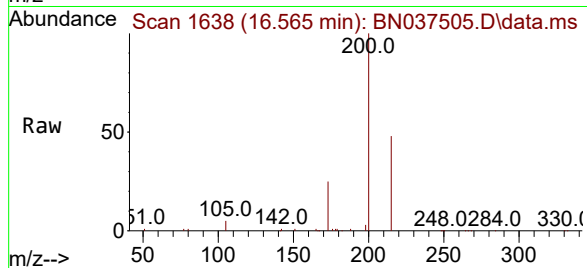
Tgt Ion:200 Resp: 16269

Ion Ratio Lower Upper

200 100

173 24.7 23.2 34.8

215 47.7 40.2 60.4



#24

Pentachlorophenol

Concen: 6.351 ng

RT: 16.751 min Scan# 1653

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

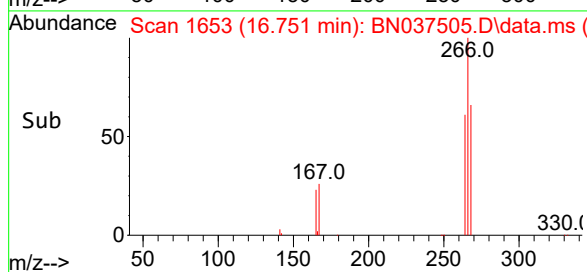
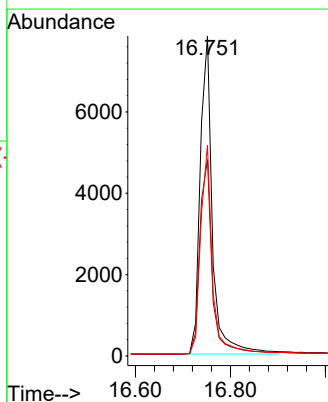
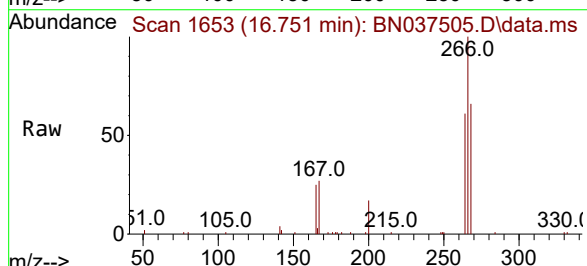
Tgt Ion:266 Resp: 13954

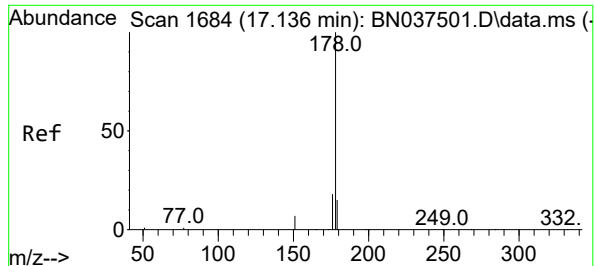
Ion Ratio Lower Upper

266 100

264 62.8 49.3 73.9

268 64.0 51.6 77.4





#25

Phenanthrene

Concen: 5.312 ng

RT: 17.136 min Scan# 1684

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

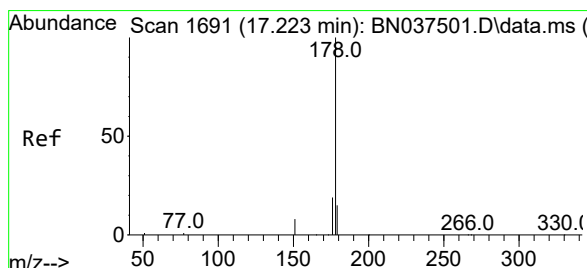
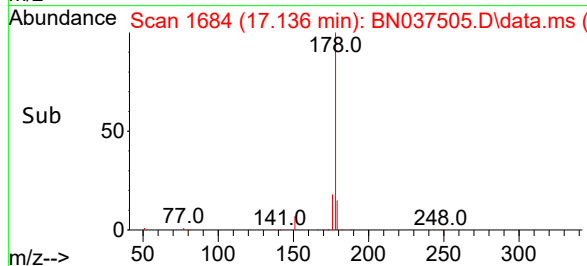
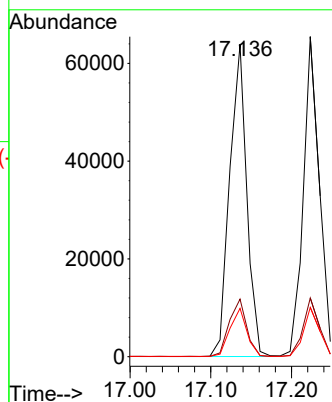
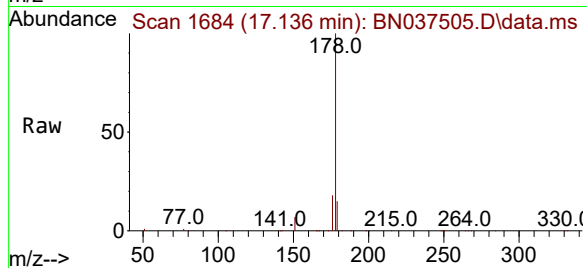
Tgt Ion:178 Resp: 94181

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.3 12.2 18.2



#26

Anthracene

Concen: 5.634 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

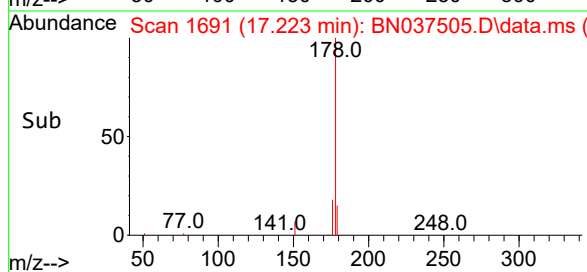
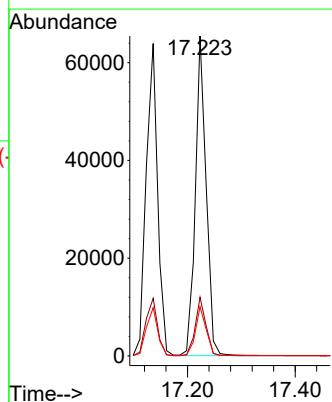
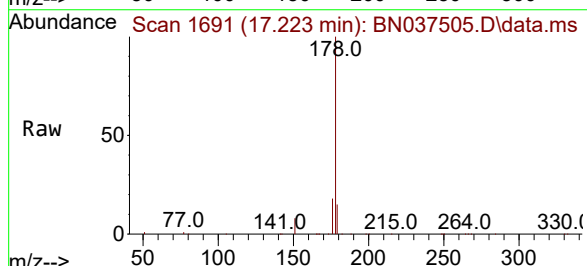
Tgt Ion:178 Resp: 91147

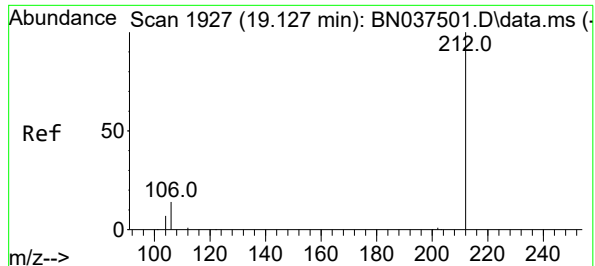
Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 6.537 ng

RT: 19.127 min Scan# 1927

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

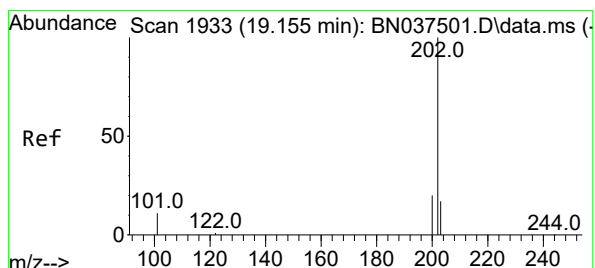
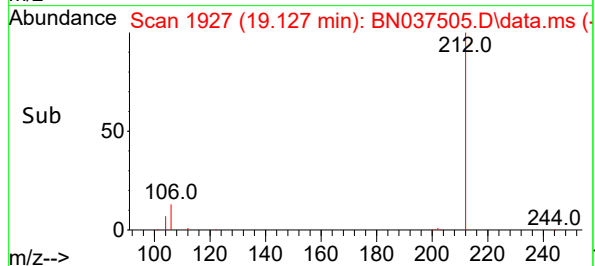
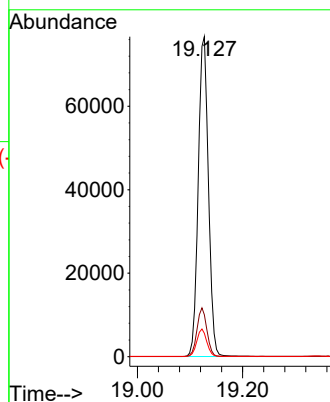
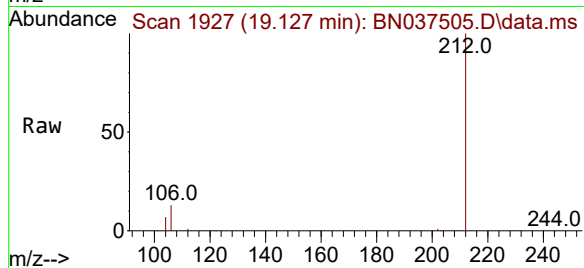
Tgt Ion:212 Resp: 102473

Ion Ratio Lower Upper

212 100

106 14.8 12.2 18.4

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 5.736 ng

RT: 19.155 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

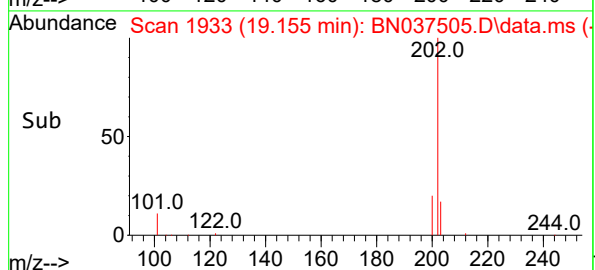
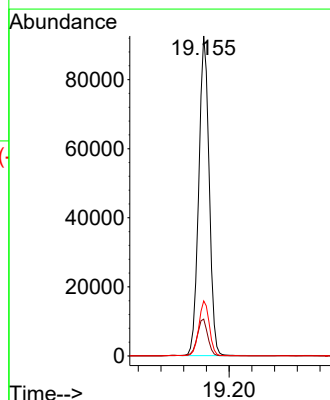
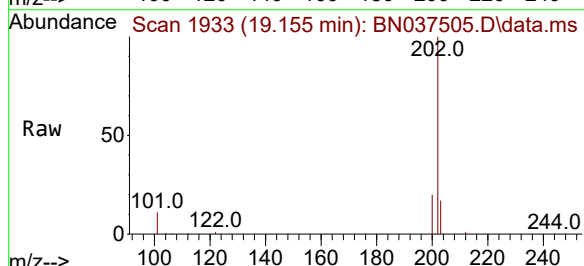
Tgt Ion:202 Resp: 117280

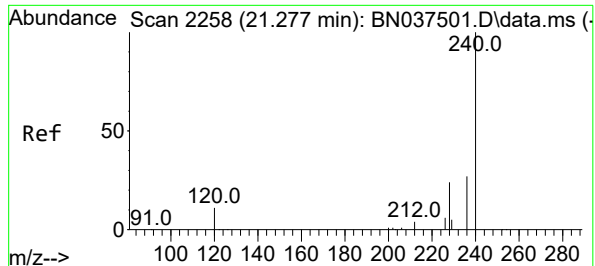
Ion Ratio Lower Upper

202 100

101 11.8 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

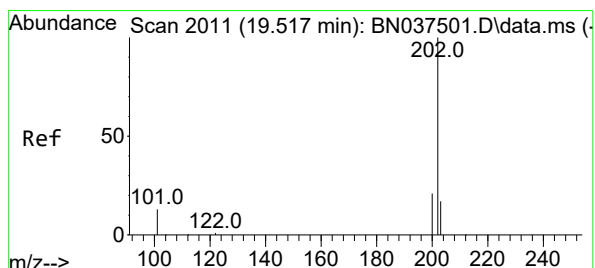
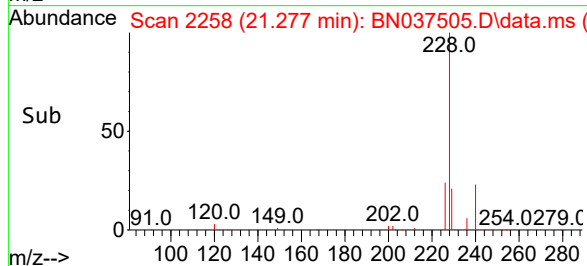
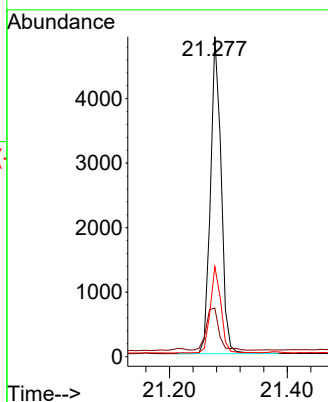
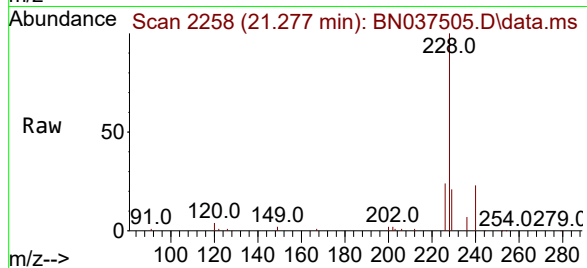
Tgt Ion:240 Resp: 6176

Ion Ratio Lower Upper

240 100

120 15.2 10.7 16.1

236 28.1 22.6 33.8



#30

Pyrene

Concen: 4.775 ng

RT: 19.517 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

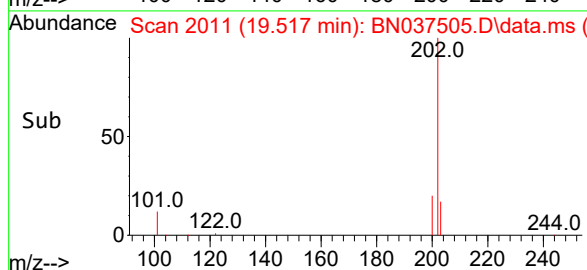
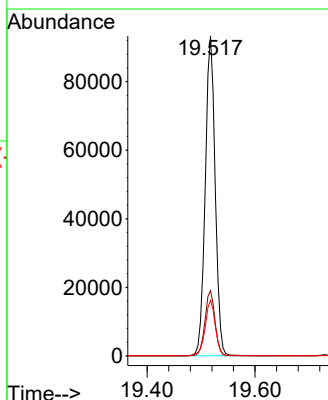
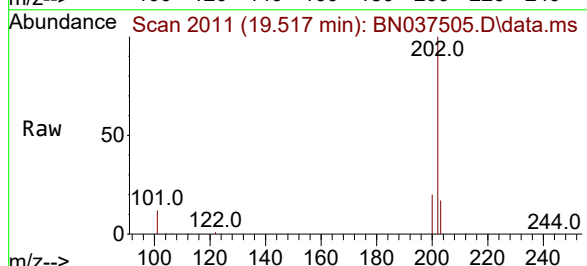
Tgt Ion:202 Resp: 118804

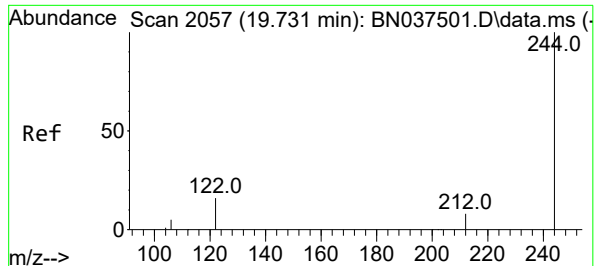
Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

203 17.8 14.3 21.5

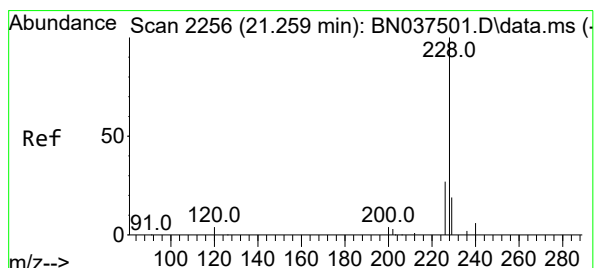
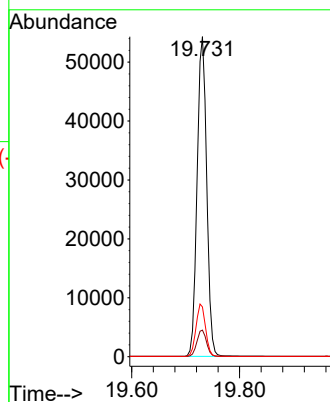
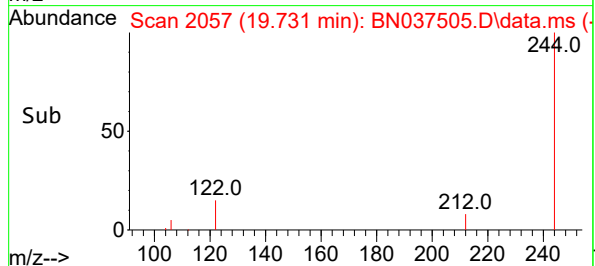
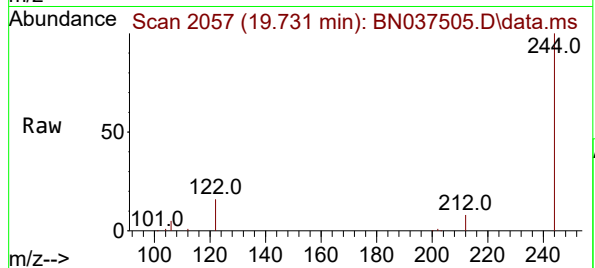




#31
Terphenyl-d14
Concen: 5.031 ng
RT: 19.731 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BN037505.D
Acq: 15 Jul 2025 16:14

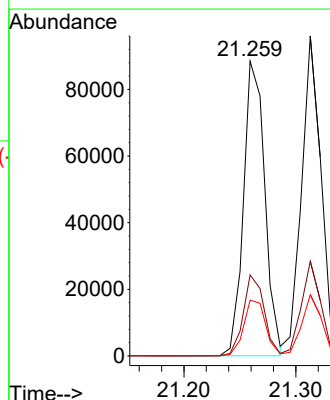
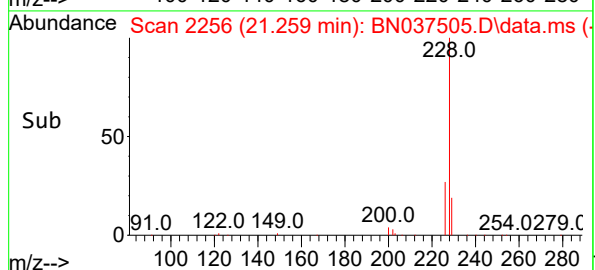
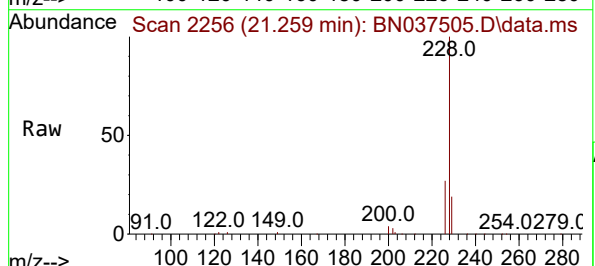
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

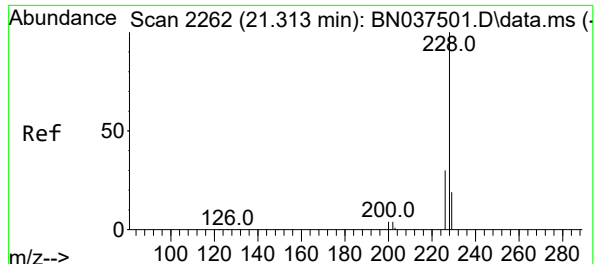
Tgt Ion:244 Resp: 66764
Ion Ratio Lower Upper
244 100
212 8.3 7.4 11.2
122 15.6 13.6 20.4



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

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





#33

Chrysene

Concen: 5.239 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

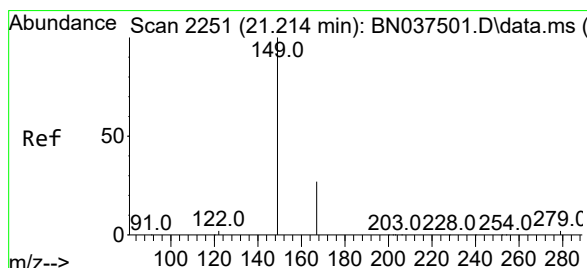
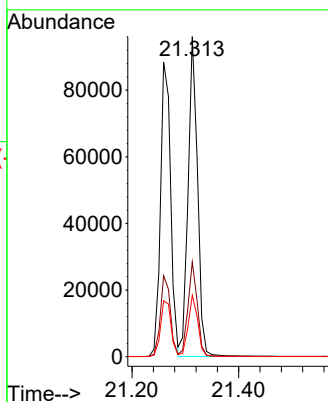
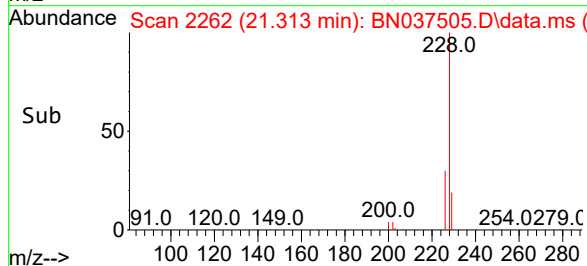
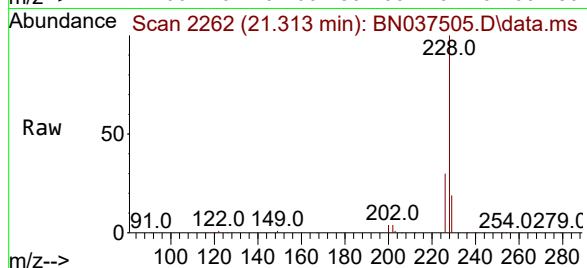
Tgt Ion:228 Resp: 117985

Ion Ratio Lower Upper

228 100

226 29.6 24.2 36.4

229 19.2 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 6.181 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

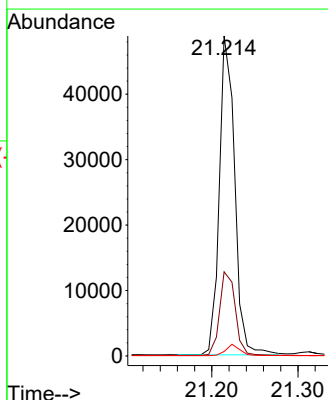
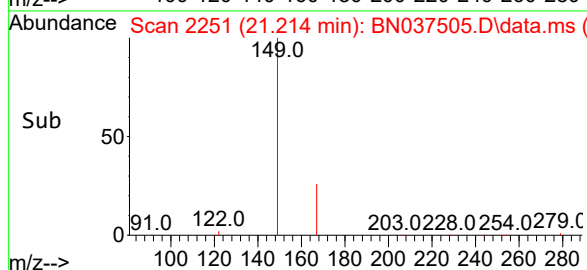
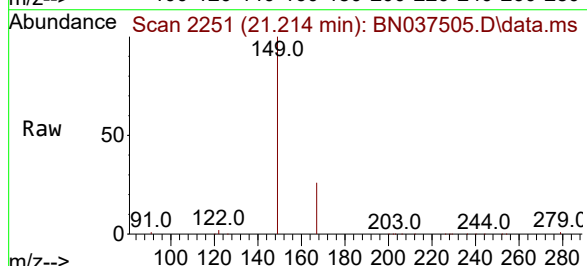
Tgt Ion:149 Resp: 60154

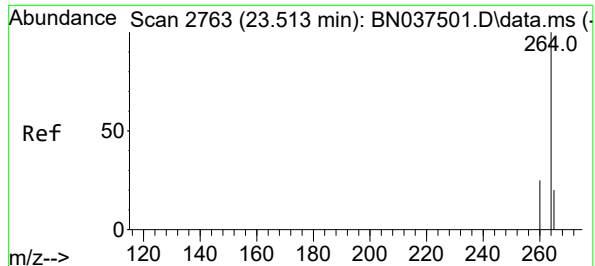
Ion Ratio Lower Upper

149 100

167 26.9 21.8 32.8

279 3.2 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037505.D

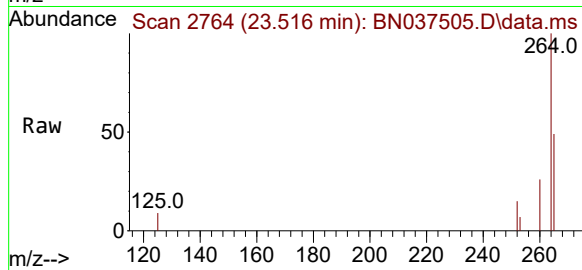
Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



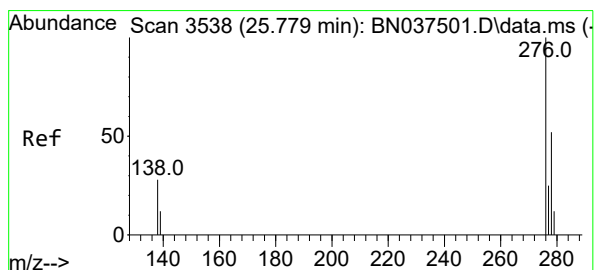
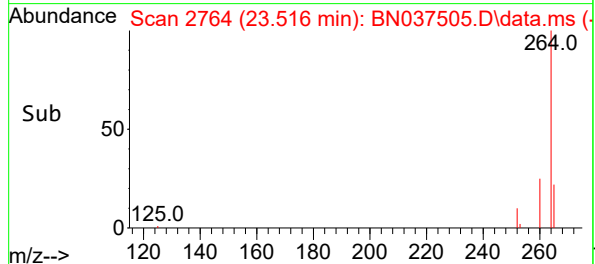
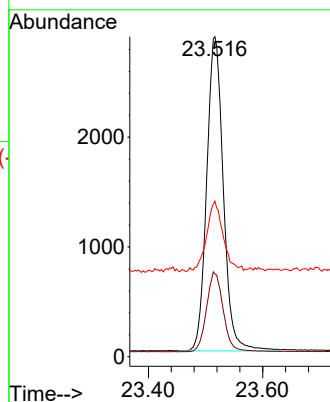
Tgt Ion:264 Resp: 5810

Ion Ratio Lower Upper

264 100

260 25.9 21.2 31.8

265 48.6 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.975 ng

RT: 25.782 min Scan# 3539

Delta R.T. 0.003 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

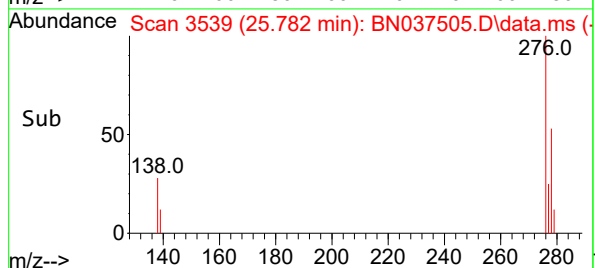
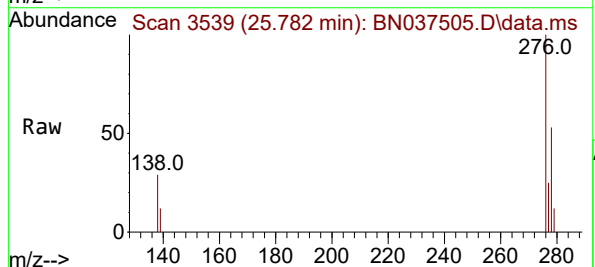
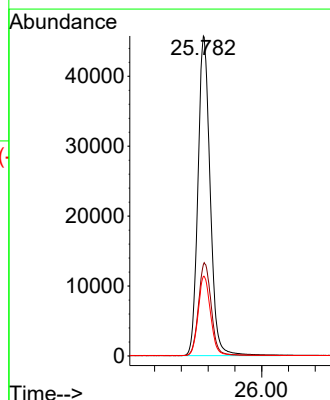
Tgt Ion:276 Resp: 144593

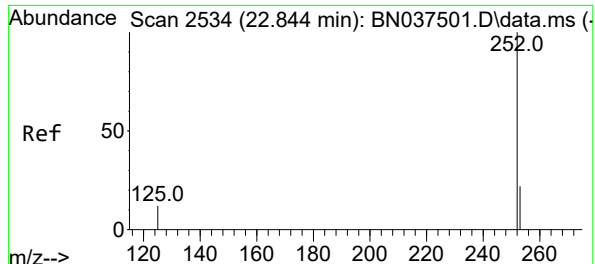
Ion Ratio Lower Upper

276 100

138 30.3 24.0 36.0

277 25.2 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 5.570 ng

RT: 22.844 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

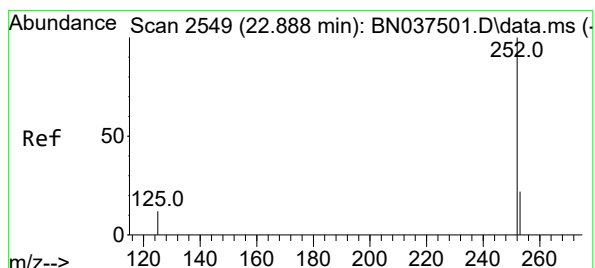
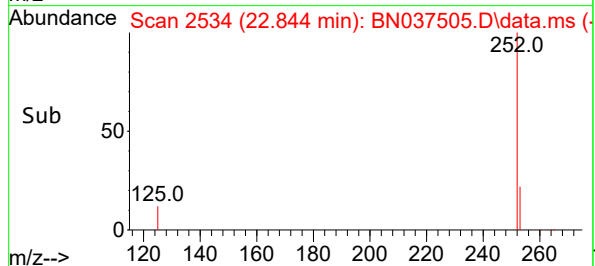
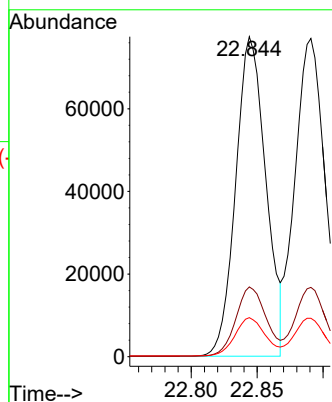
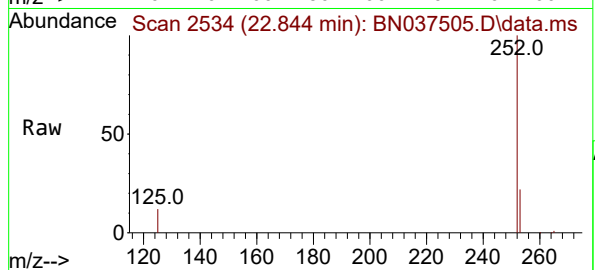
Tgt Ion:252 Resp: 122848

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 12.2 13.0 19.6#



#38

Benzo(k)fluoranthene

Concen: 5.503 ng

RT: 22.891 min Scan# 2550

Delta R.T. 0.003 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

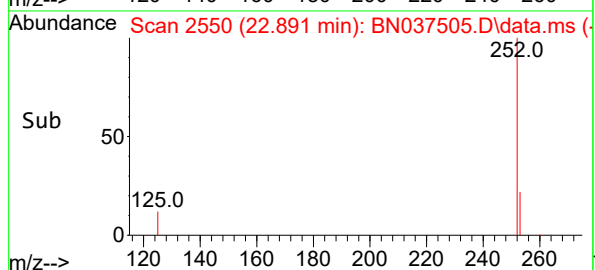
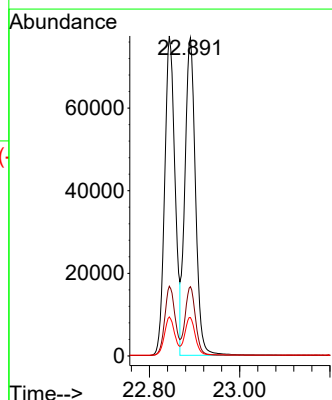
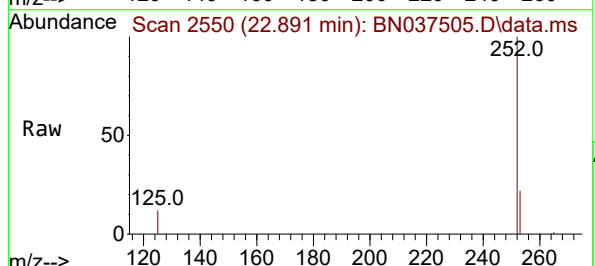
Tgt Ion:252 Resp: 125226

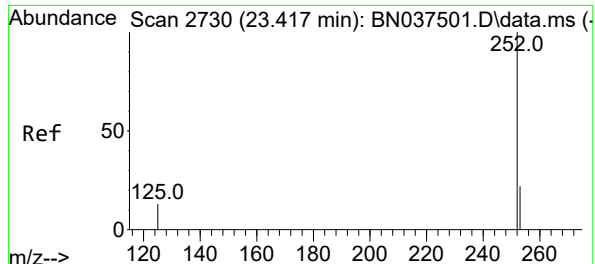
Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 12.1 13.1 19.7#





#39

Benzo(a)pyrene

Concen: 5.797 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

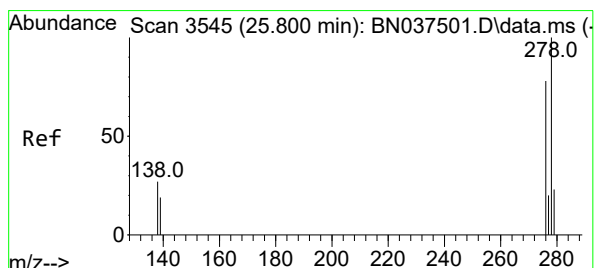
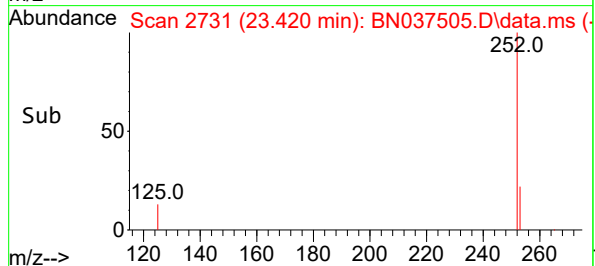
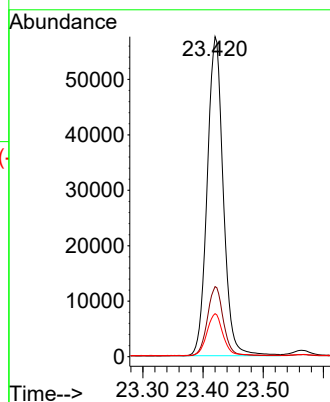
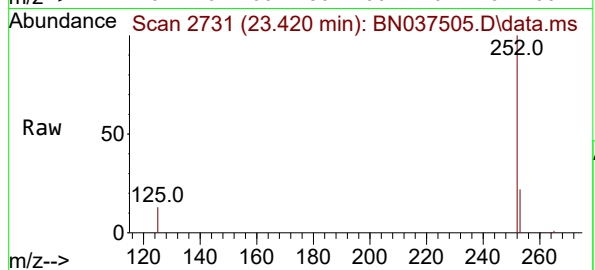
Tgt Ion:252 Resp: 106654

Ion Ratio Lower Upper

252 100

253 21.9 19.9 29.9

125 13.5 15.2 22.8#



#40

Dibenzo(a,h)anthracene

Concen: 6.029 ng

RT: 25.800 min Scan# 3545

Delta R.T. 0.000 min

Lab File: BN037505.D

Acq: 15 Jul 2025 16:14

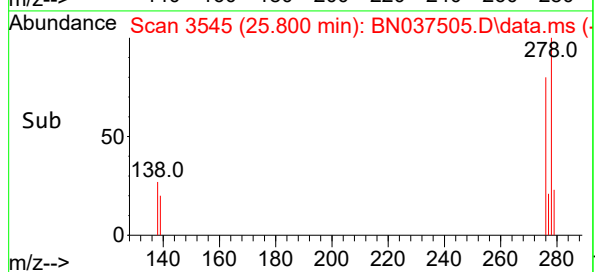
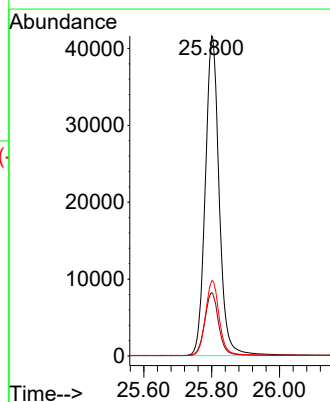
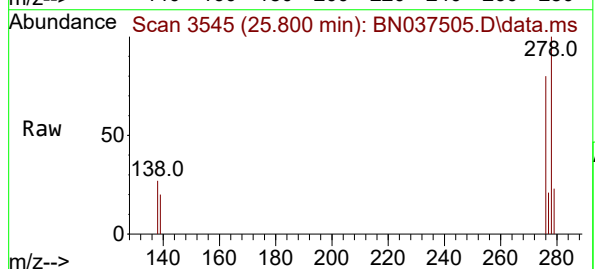
Tgt Ion:278 Resp: 118164

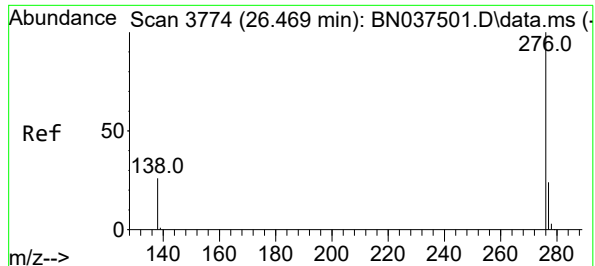
Ion Ratio Lower Upper

278 100

139 19.8 17.5 26.3

279 23.5 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 5.952 ng

RT: 26.469 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037505.D

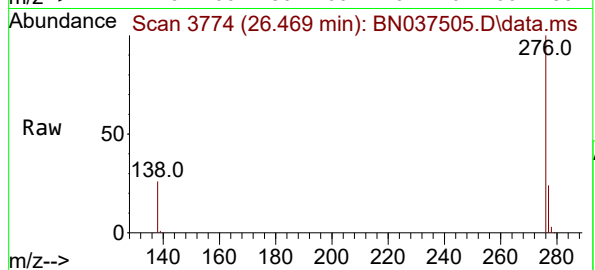
Acq: 15 Jul 2025 16:14

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



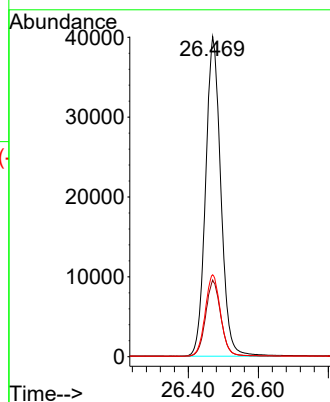
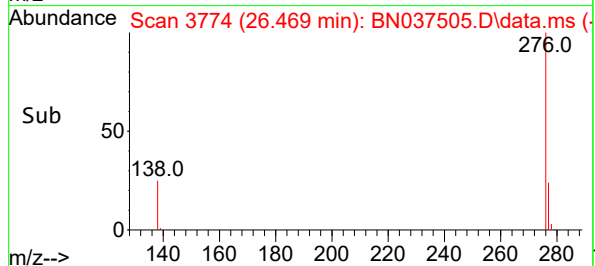
Tgt Ion:276 Resp: 120757

Ion Ratio Lower Upper

276 100

277 24.0 20.9 31.3

138 25.6 22.6 33.8



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

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN071525

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

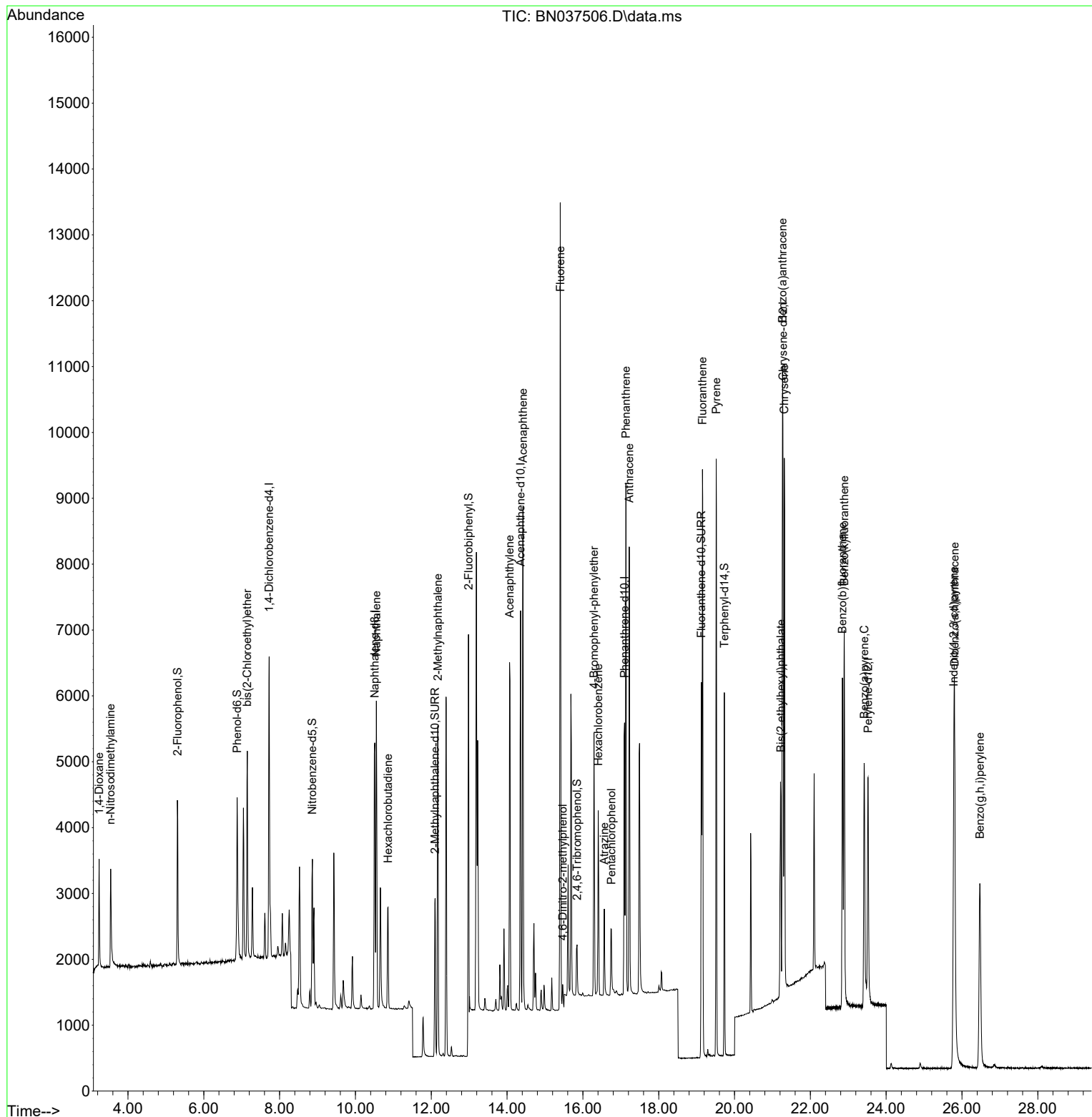
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2236	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5813	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3335	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6334	0.400	ng	0.00
29) Chrysene-d12	21.277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

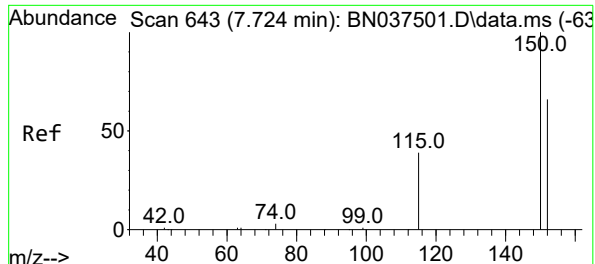
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
ICVBN071525

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

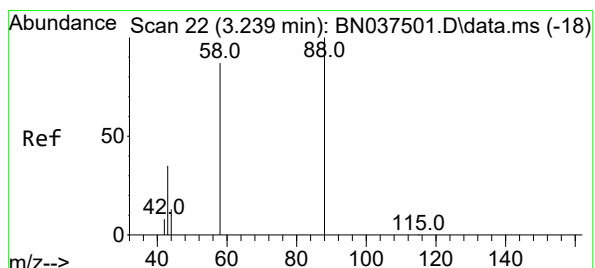
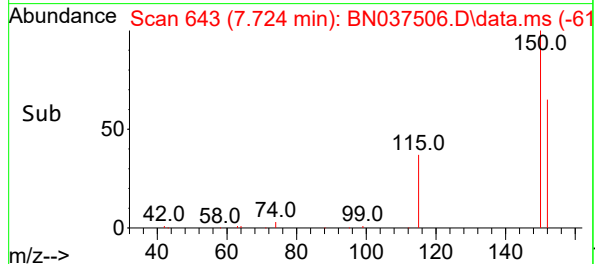
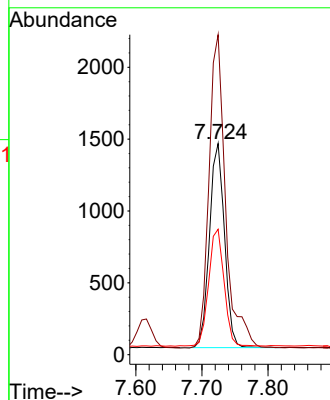
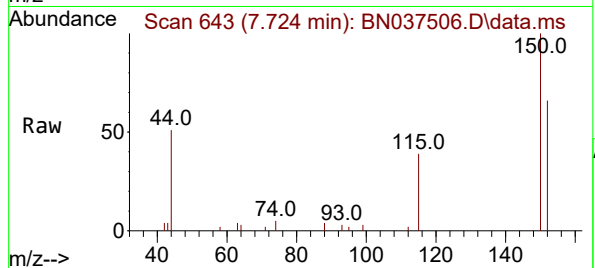




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

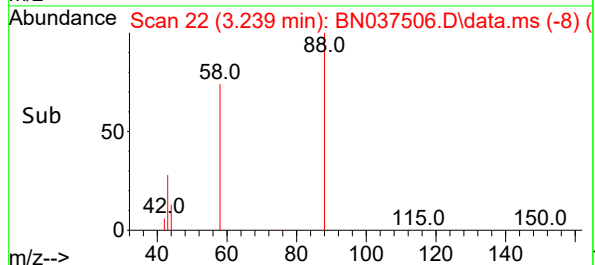
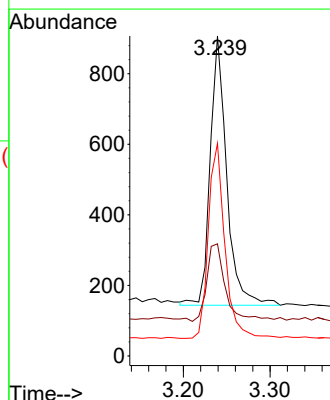
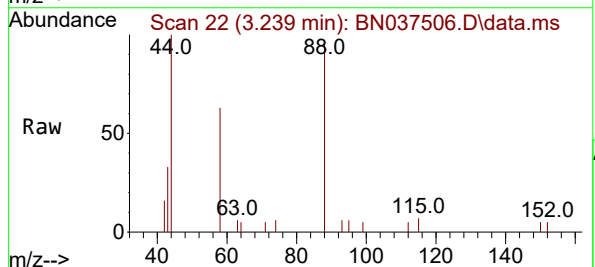
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

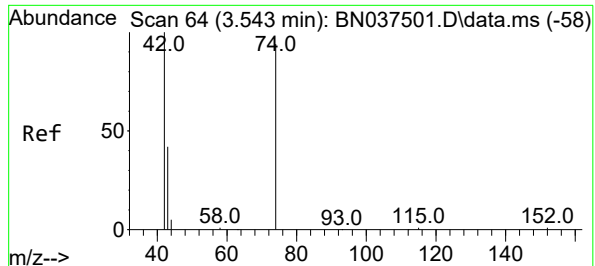
Tgt Ion:152 Resp: 2236
Ion Ratio Lower Upper
152 100
150 151.5 119.8 179.8
115 59.4 49.1 73.7



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

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

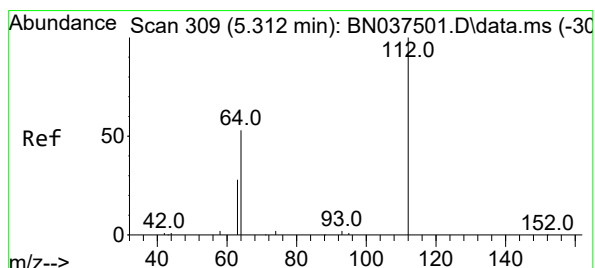
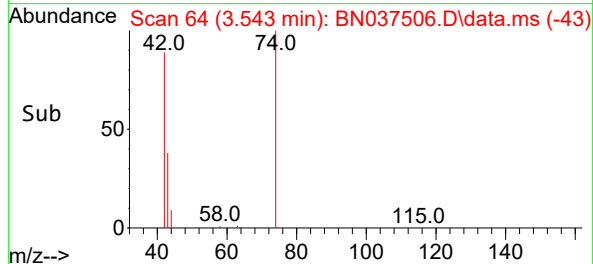
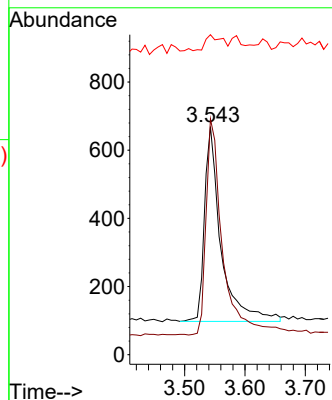
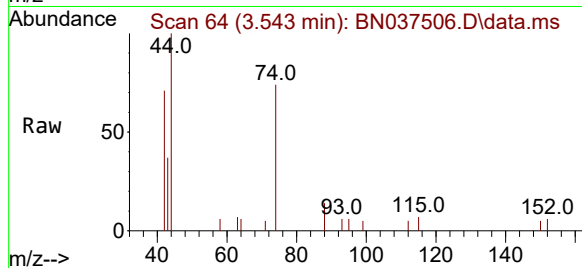




#3
n-Nitrosodimethylamine
Concen: 0.401 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

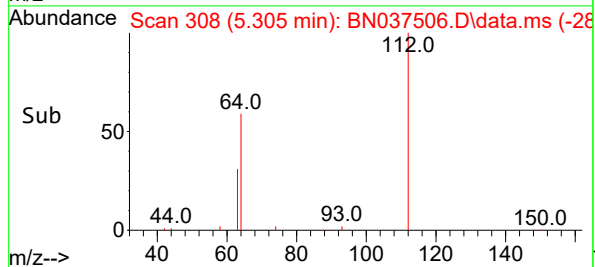
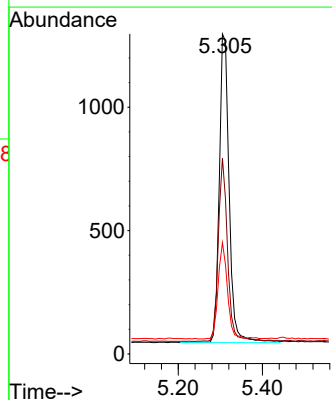
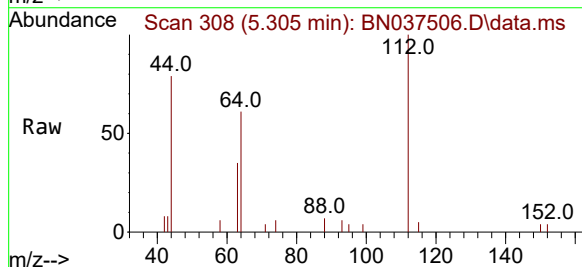
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

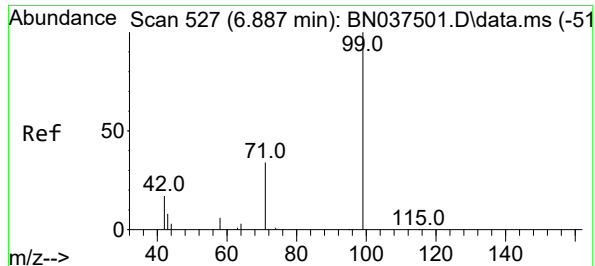
Tgt Ion: 42 Resp: 1083
Ion Ratio Lower Upper
42 100
74 112.8 91.8 137.6
44 8.5 15.0 22.6#



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

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

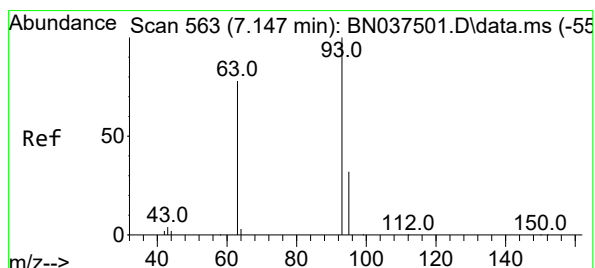
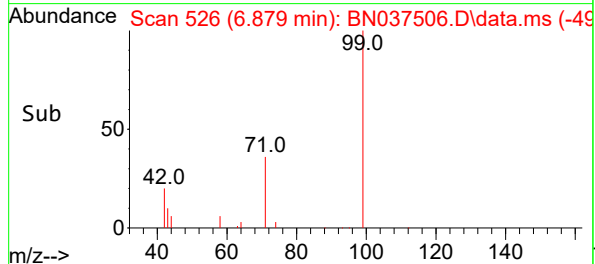
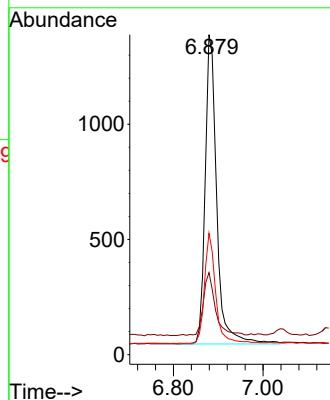
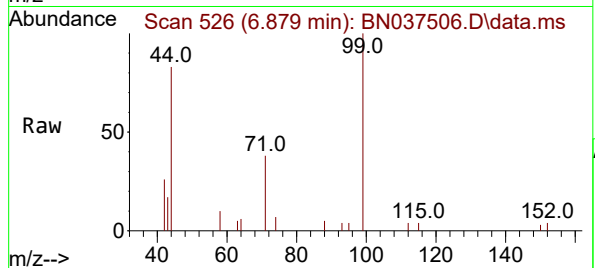




#5
Phenol-d6
Concen: 0.347 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

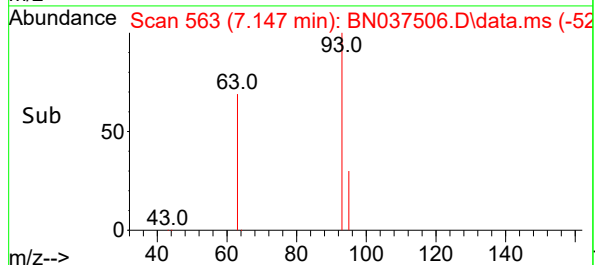
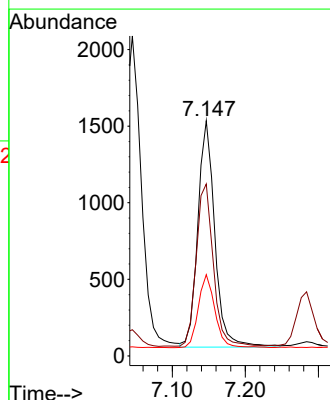
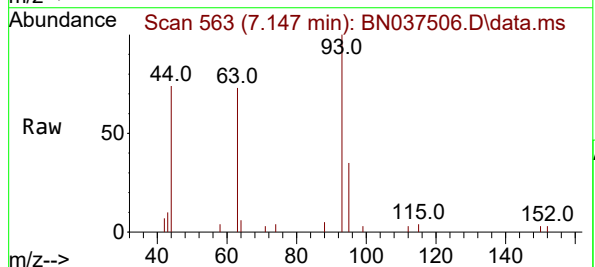
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

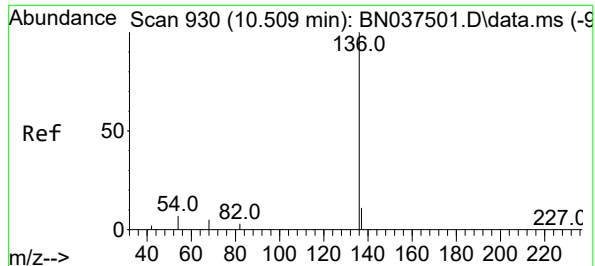
Tgt Ion: 99 Resp: 2407
Ion Ratio Lower Upper
99 100
42 20.7 17.1 25.7
71 34.6 27.8 41.8



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

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

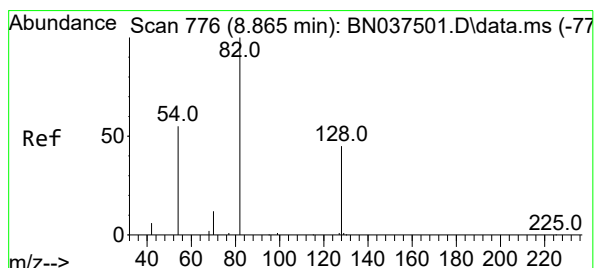
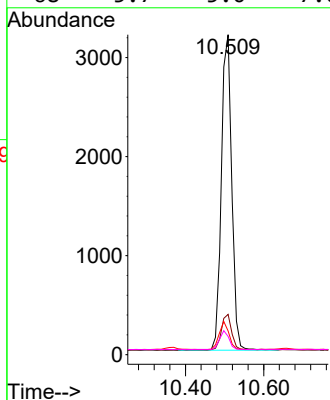
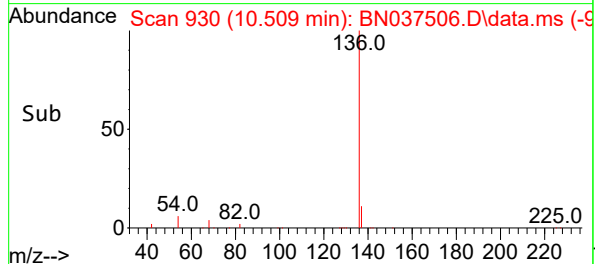
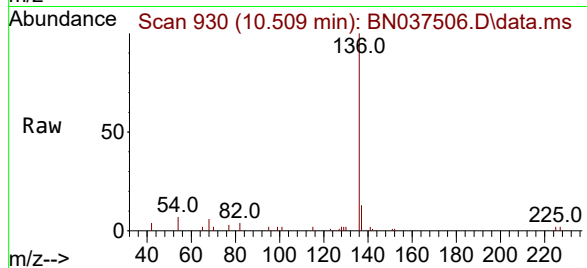




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

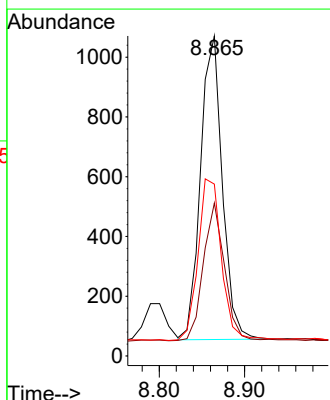
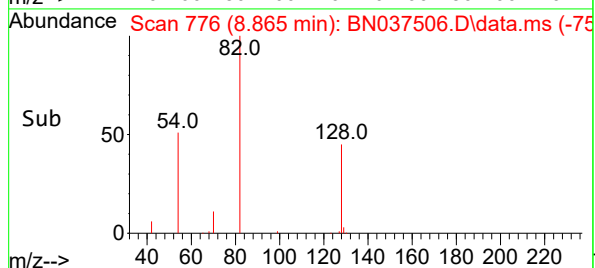
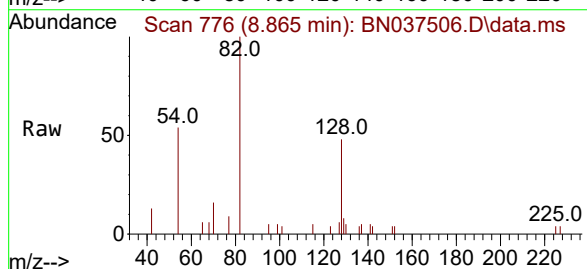
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

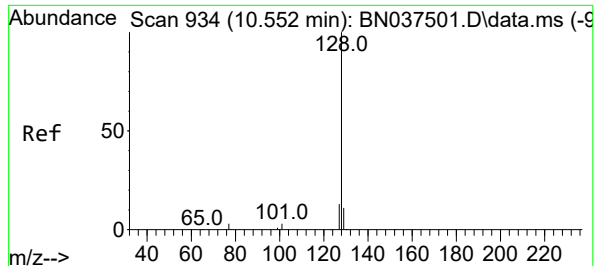
Tgt Ion:	136	Resp:	5813
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.8	14.8
54	7.4	6.6	9.8
68	5.7	5.0	7.6



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

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

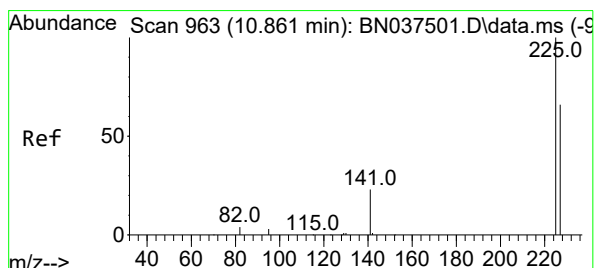
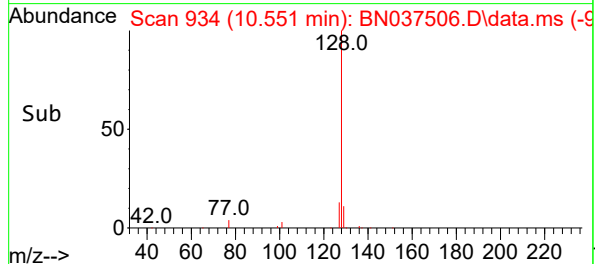
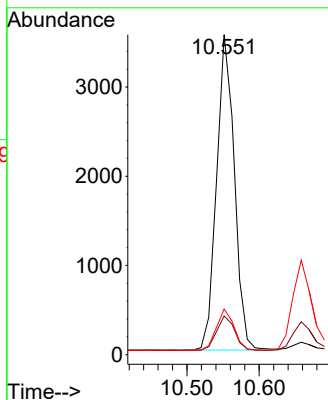
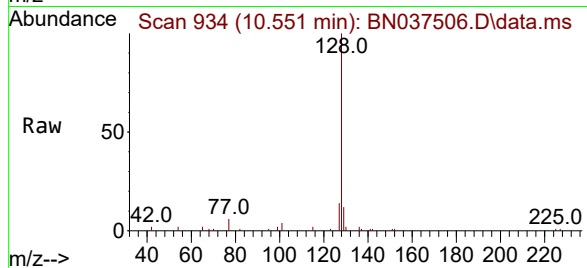




#9
Naphthalene
Concen: 0.389 ng
RT: 10.551 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

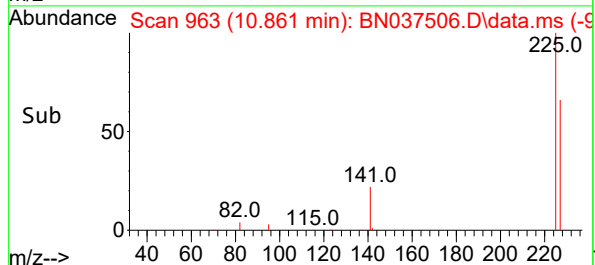
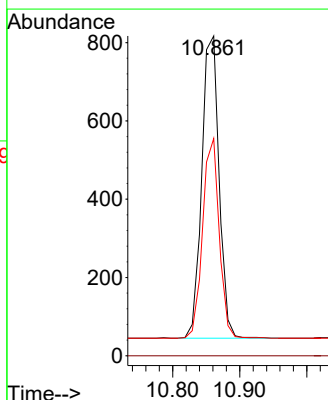
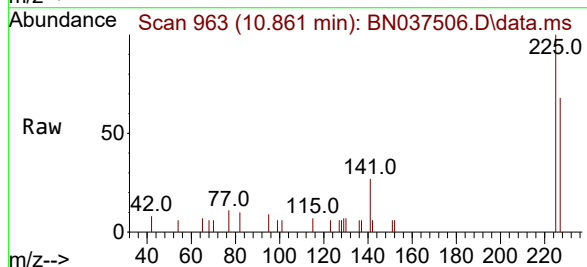
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

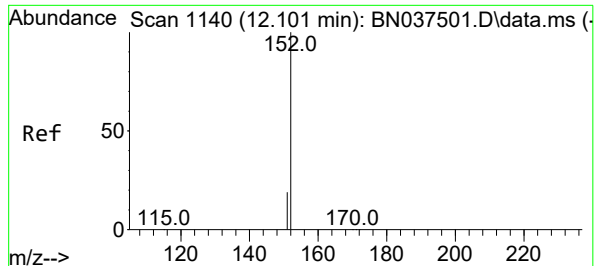
Tgt Ion:128 Resp: 6033
Ion Ratio Lower Upper
128 100
129 12.1 9.7 14.5
127 14.2 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.861 min Scan# 963
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion:225 Resp: 1386
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 51.0 76.4

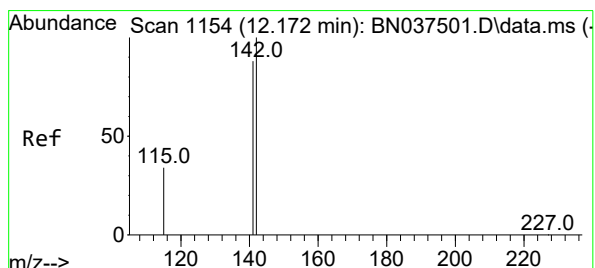
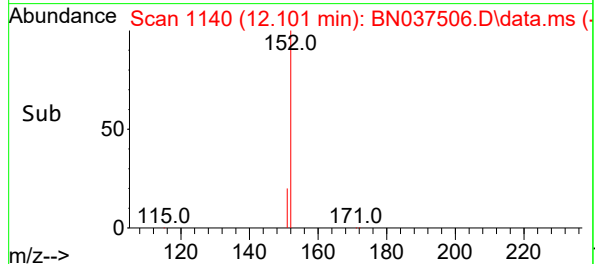
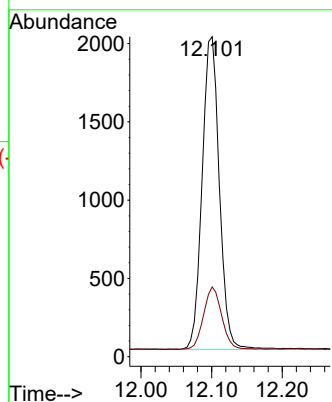
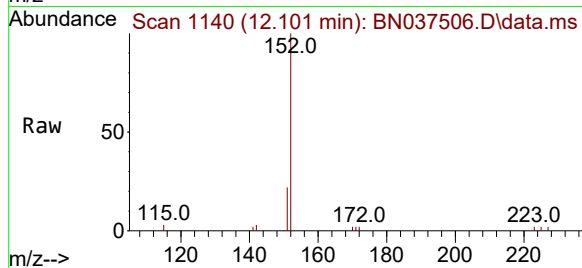




#11
2-Methylnaphthalene-d10
Concen: 0.405 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

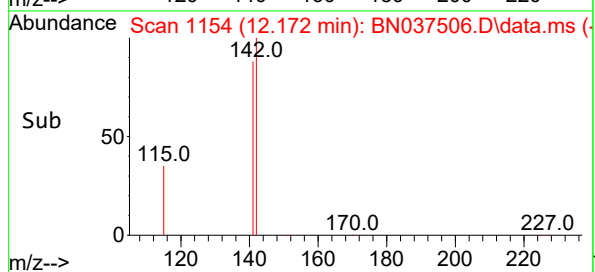
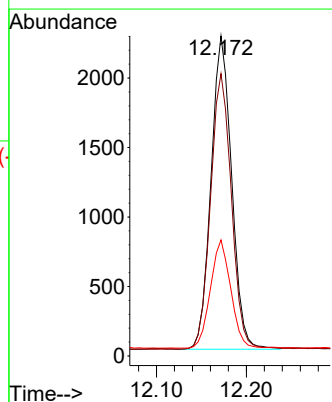
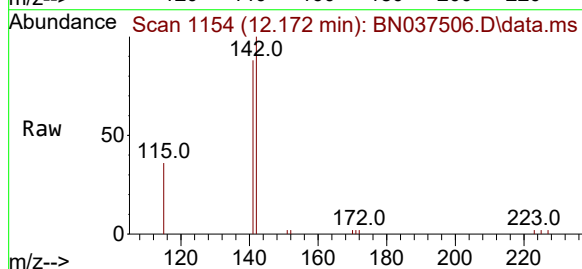
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

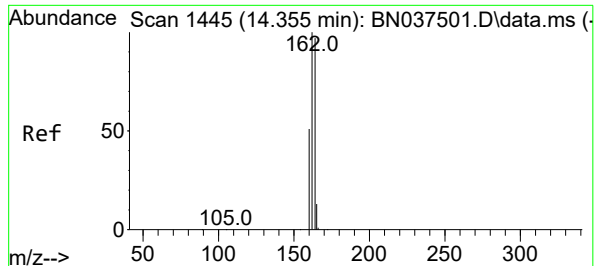
Tgt Ion:152 Resp: 3375
Ion Ratio Lower Upper
152 100
151 21.1 16.8 25.2



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

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

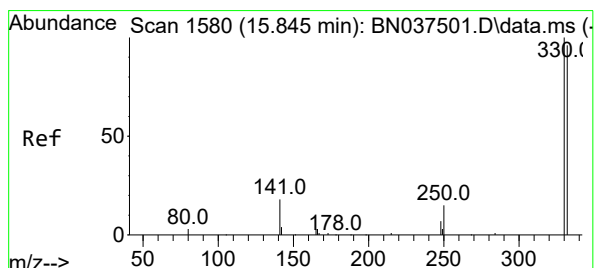
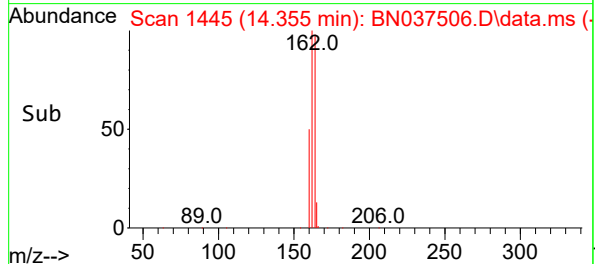
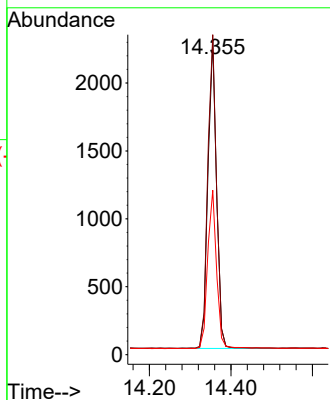
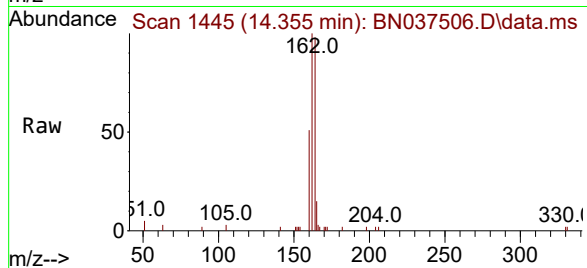




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

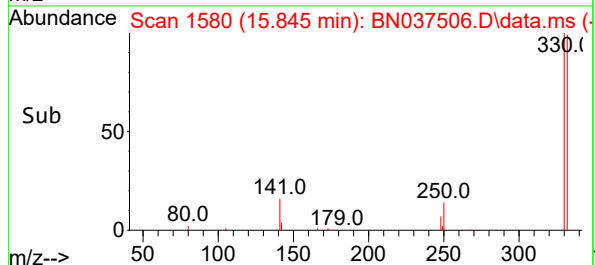
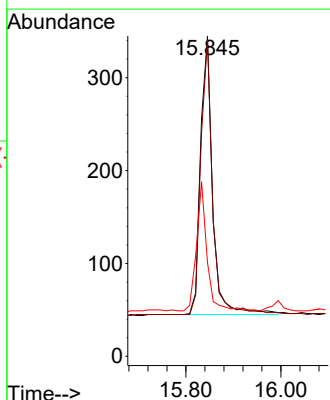
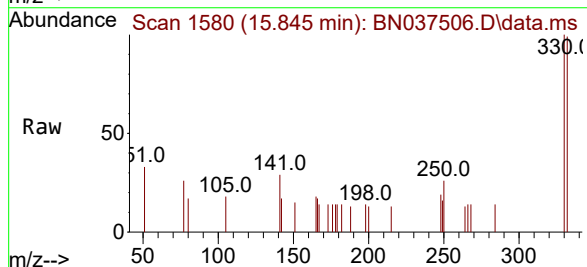
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

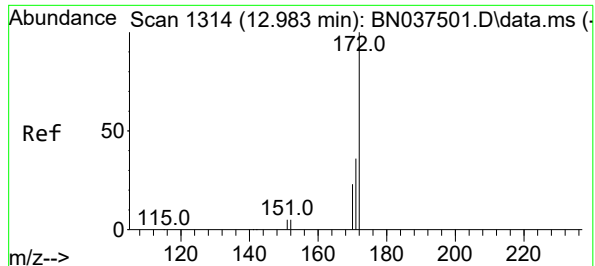
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.0	123.0
160	52.2	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.324 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.1	114.1
141	39.9	33.4	50.0





#15

2-Fluorobiphenyl

Concen: 0.461 ng

RT: 12.983 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

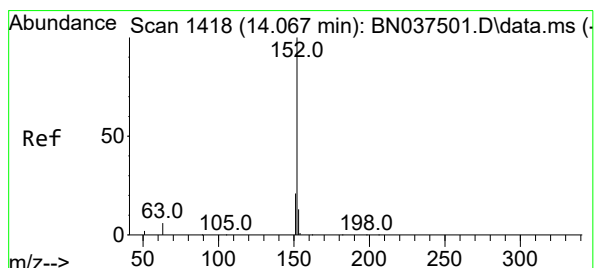
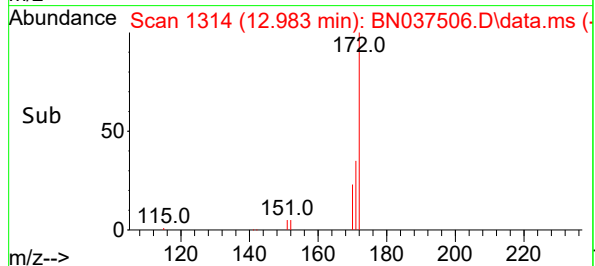
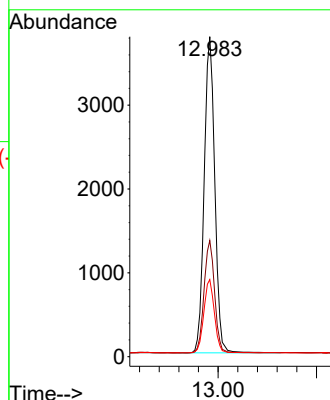
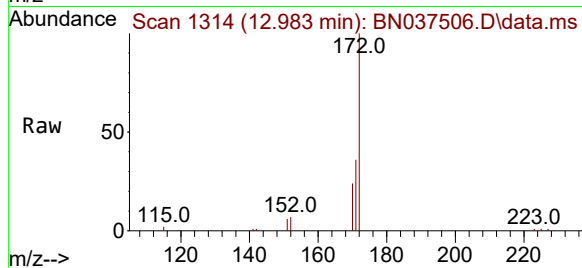
Tgt Ion:172 Resp: 8001

Ion Ratio Lower Upper

172 100

171 36.3 29.4 44.2

170 24.1 19.4 29.0



#16

Acenaphthylene

Concen: 0.417 ng

RT: 14.067 min Scan# 1418

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

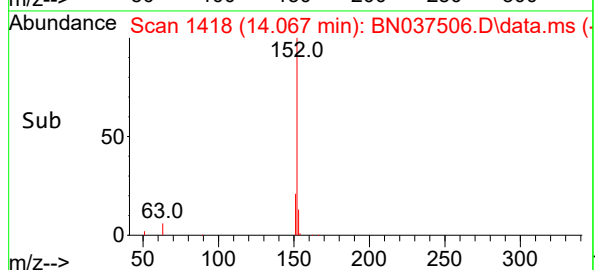
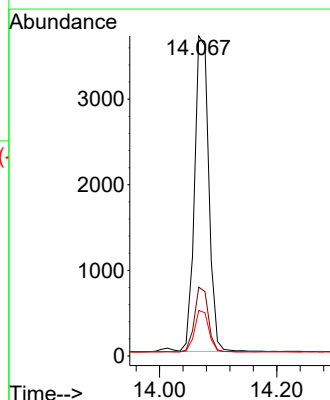
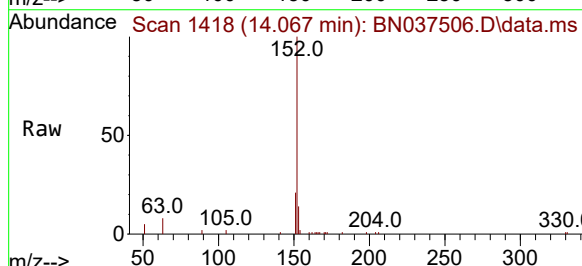
Tgt Ion:152 Resp: 6226

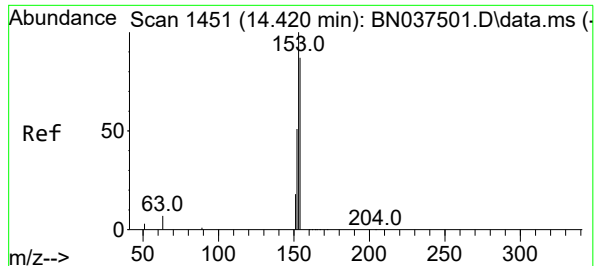
Ion Ratio Lower Upper

152 100

151 20.1 15.9 23.9

153 13.2 10.7 16.1

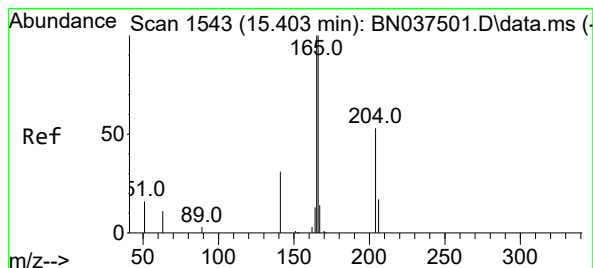
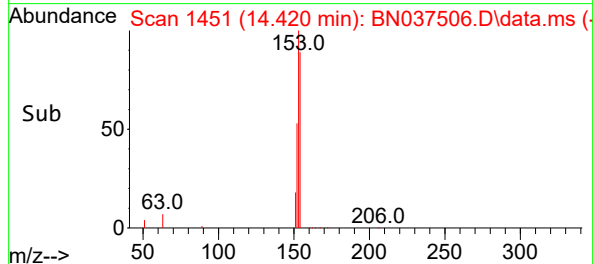
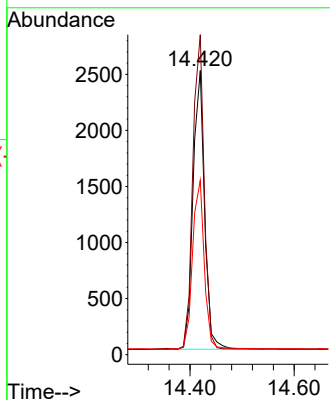
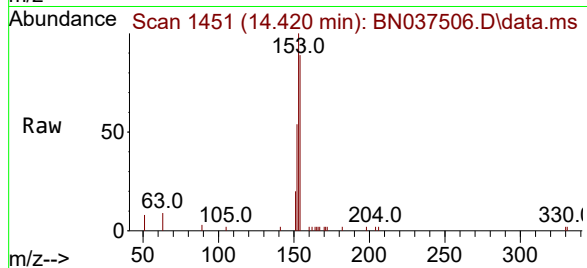




#17
Acenaphthene
Concen: 0.377 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

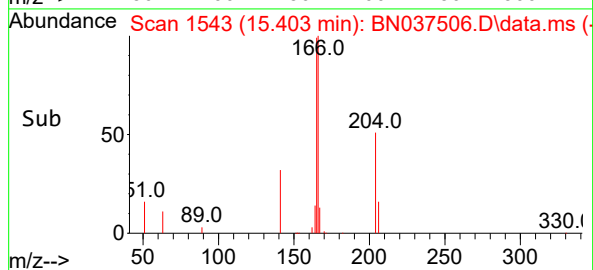
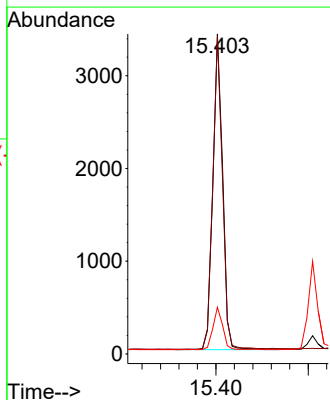
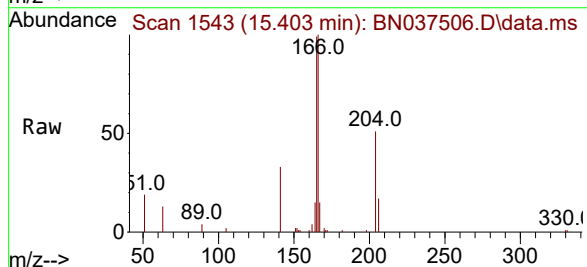
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

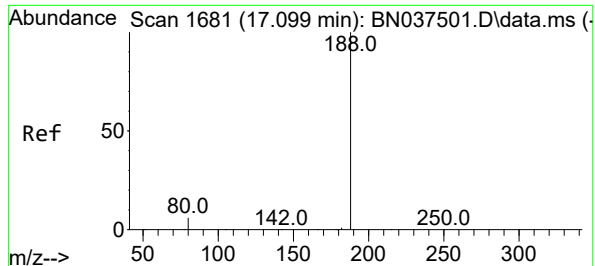
Tgt Ion	Ratio	Lower	Upper
154	100		
153	111.6	89.2	133.8
152	61.6	48.0	72.0



#18
Fluorene
Concen: 0.384 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.1	117.1
167	13.2	11.0	16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

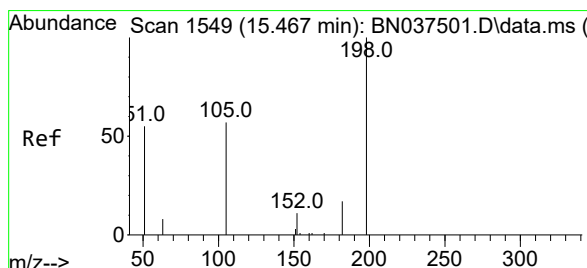
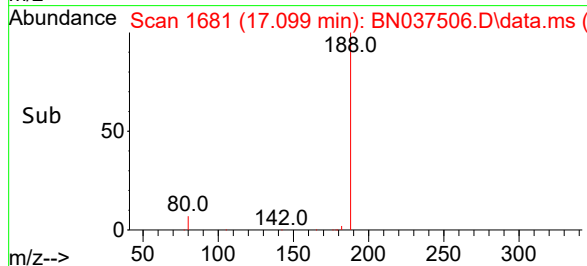
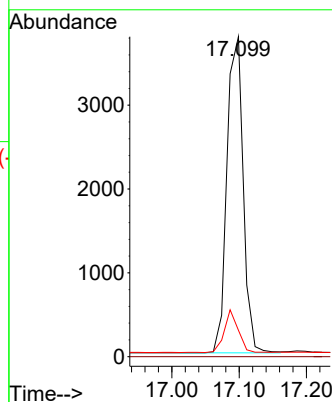
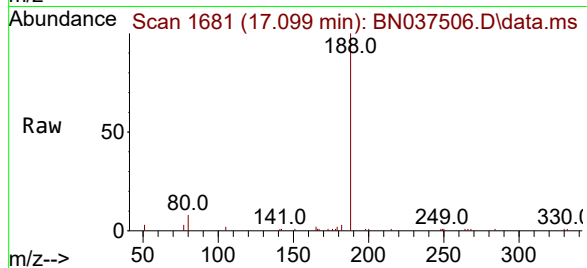
Tgt Ion:188 Resp: 6334

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 6.0 9.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.401 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

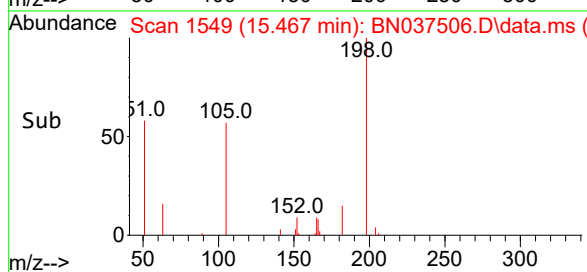
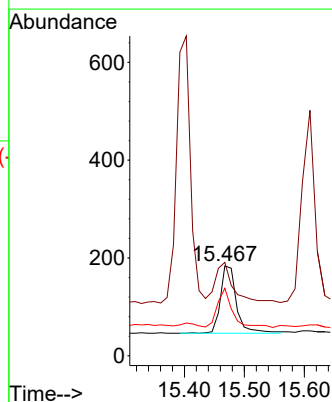
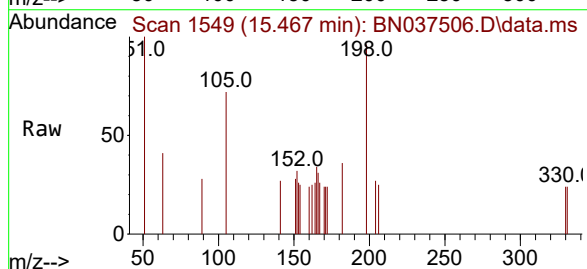
Tgt Ion:198 Resp: 267

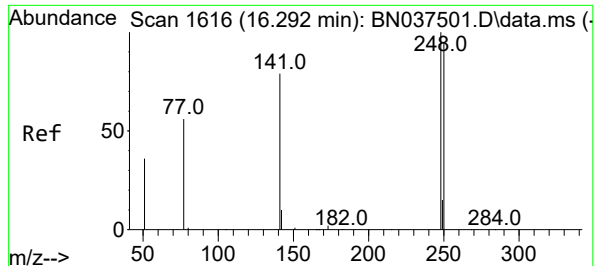
Ion Ratio Lower Upper

198 100

51 103.8 88.5 132.7

105 75.0 61.2 91.8

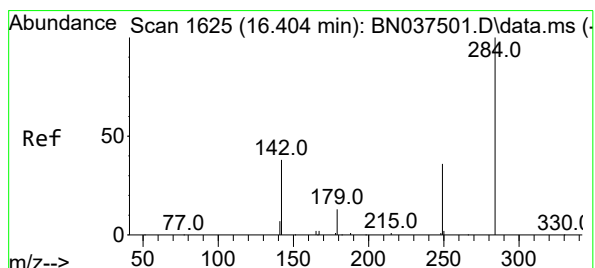
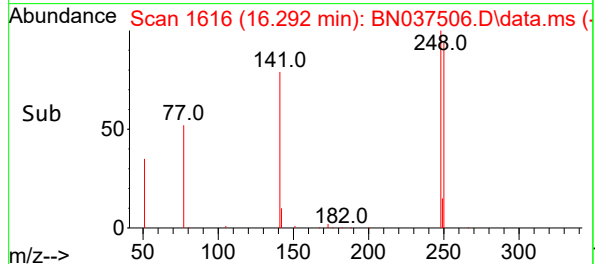
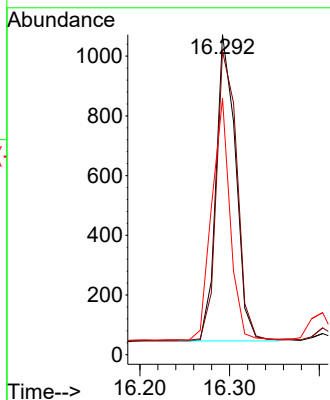
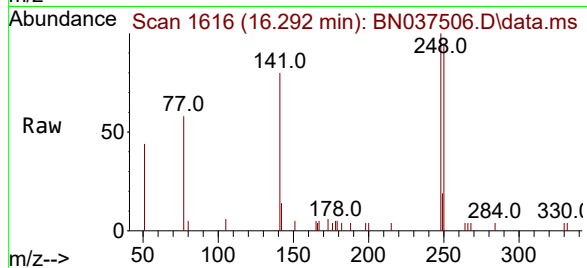




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

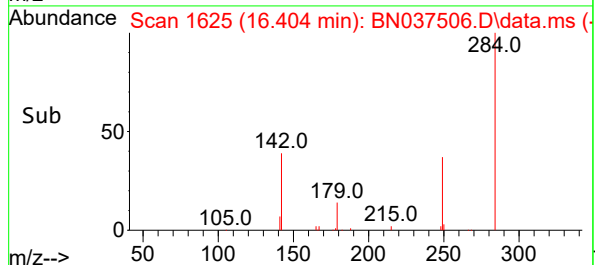
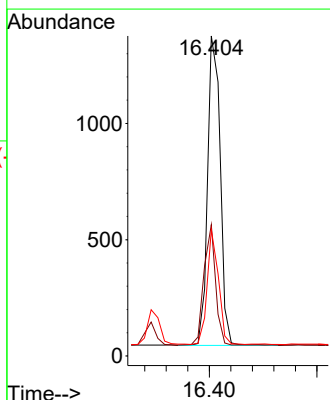
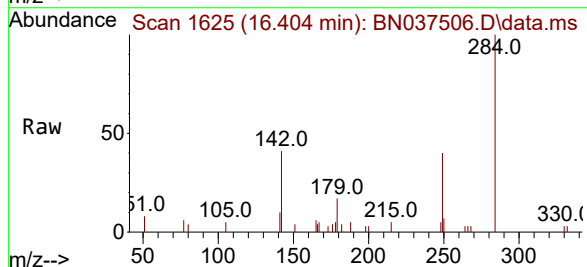
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

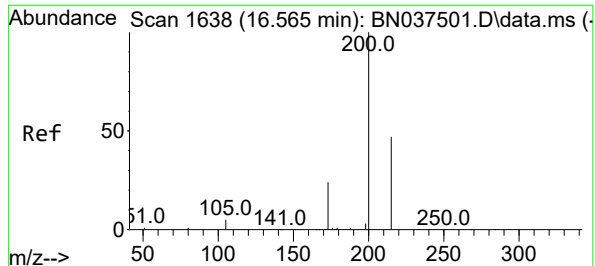
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.9	76.2	114.2
141	80.0	63.9	95.9



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

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





#23

Atrazine

Concen: 0.371 ng

RT: 16.565 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

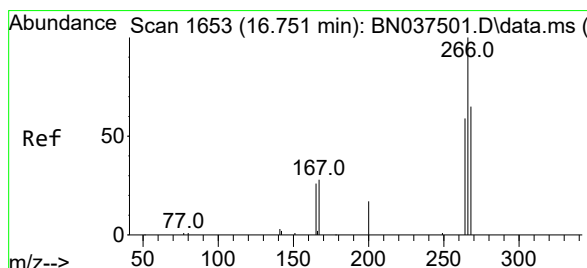
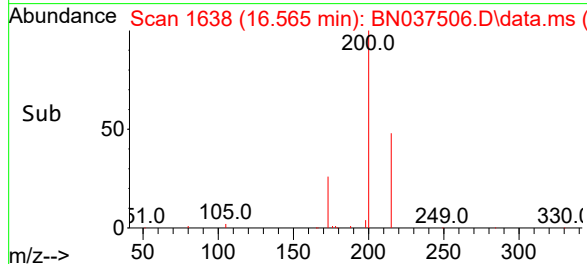
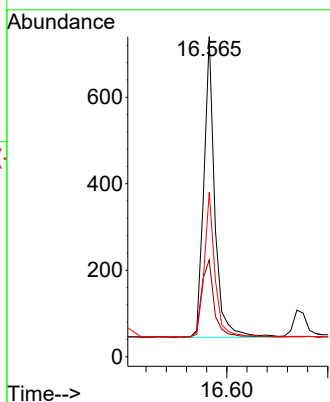
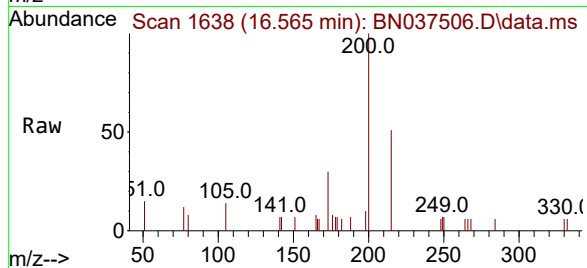
Tgt Ion:200 Resp: 1050

Ion Ratio Lower Upper

200 100

173 30.3 23.2 34.8

215 51.4 40.2 60.4



#24

Pentachlorophenol

Concen: 0.289 ng

RT: 16.751 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

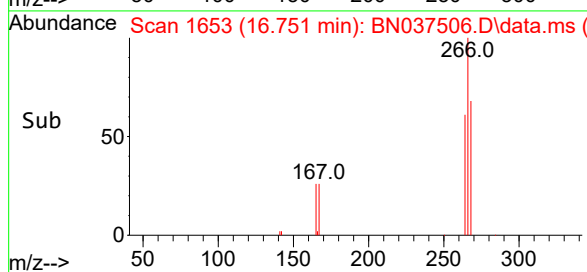
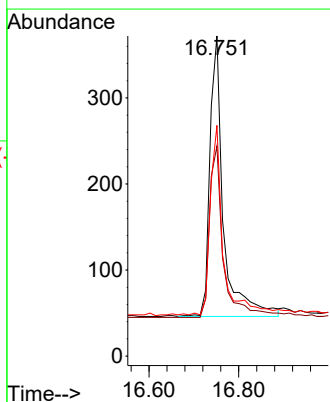
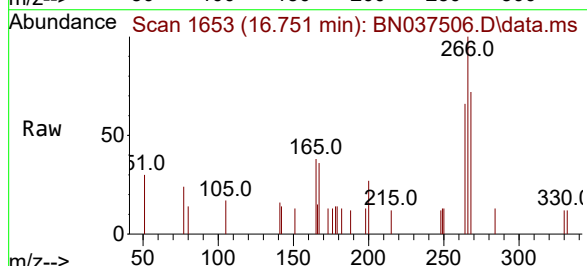
Tgt Ion:266 Resp: 679

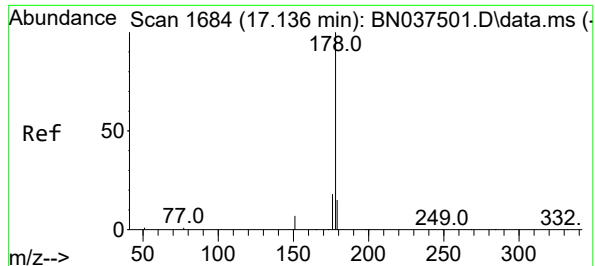
Ion Ratio Lower Upper

266 100

264 62.9 49.3 73.9

268 65.2 51.6 77.4

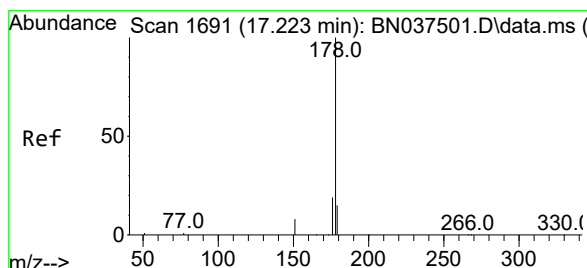
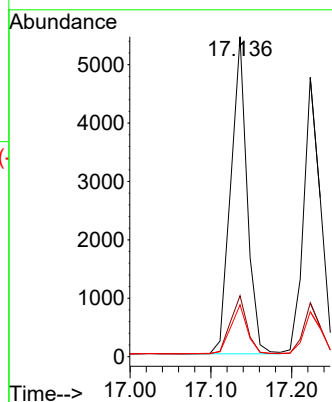
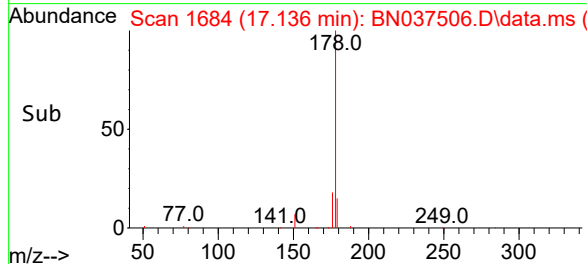
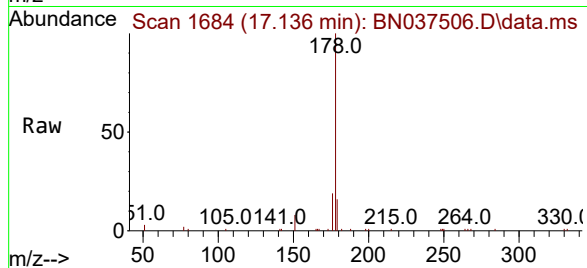




#25
Phenanthrene
Concen: 0.403 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

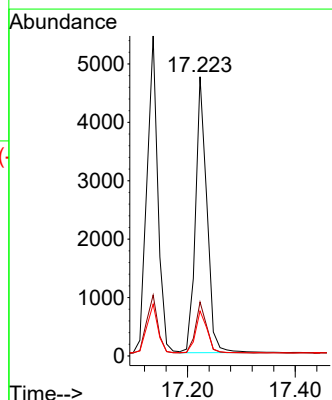
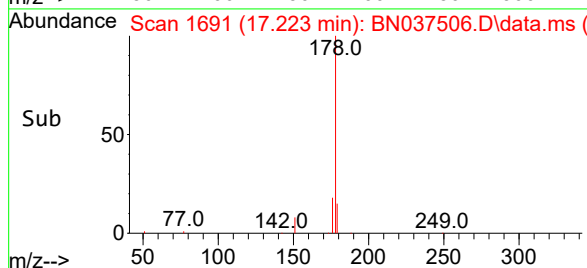
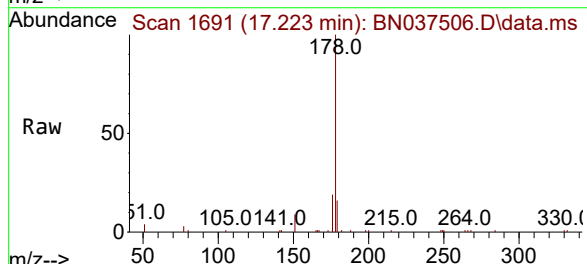
Instrument :
BNA_N
ClientSampleId :
ICVBN071525

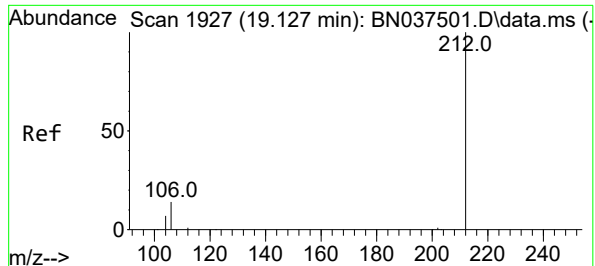
Tgt Ion:178 Resp: 7640
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Tgt Ion:178 Resp: 6928
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 19.127 min Scan# 1927

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

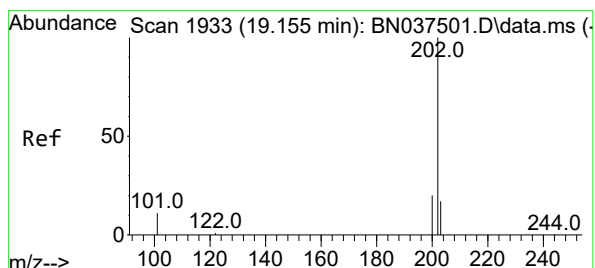
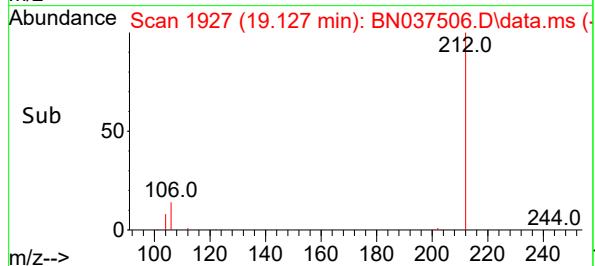
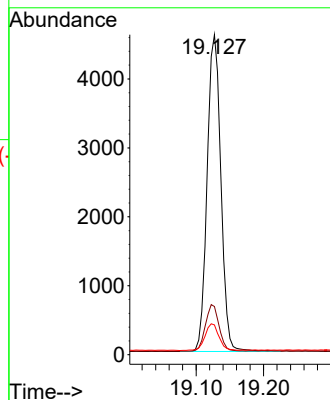
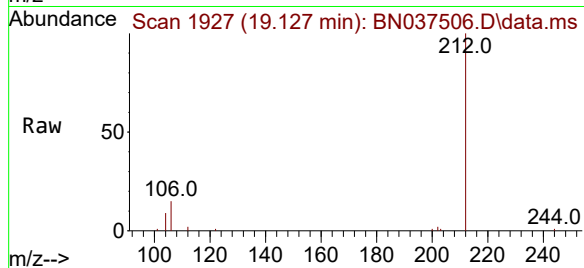
Tgt Ion:212 Resp: 6495

Ion Ratio Lower Upper

212 100

106 14.6 12.2 18.4

104 8.6 6.7 10.1



#28

Fluoranthene

Concen: 0.368 ng

RT: 19.155 min Scan# 1933

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

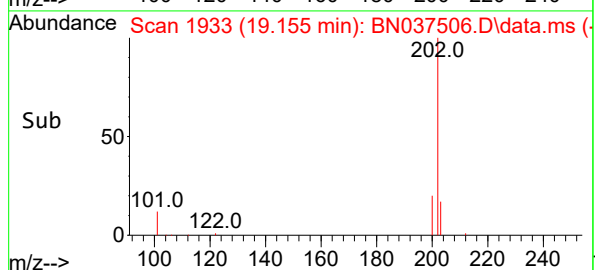
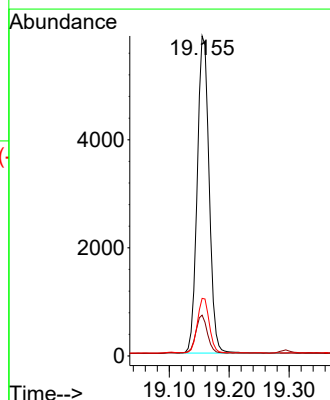
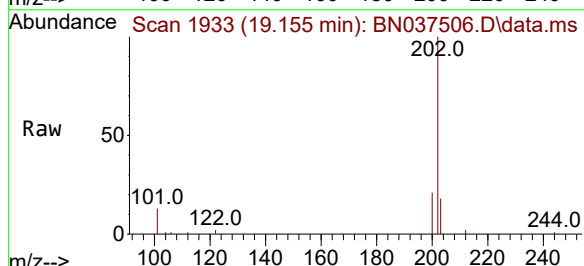
Tgt Ion:202 Resp: 8063

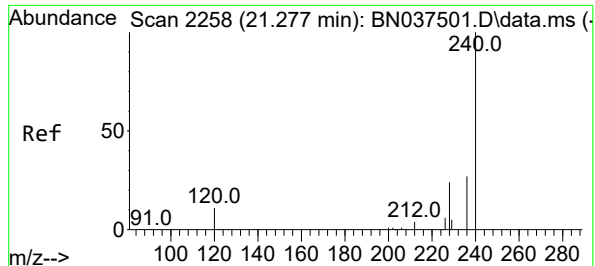
Ion Ratio Lower Upper

202 100

101 12.0 9.8 14.6

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

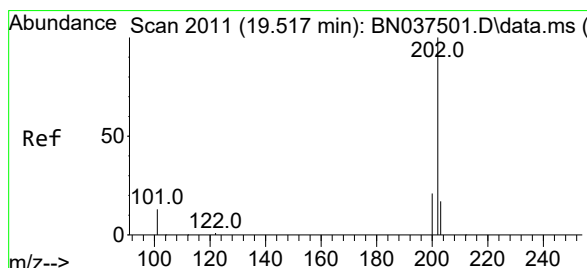
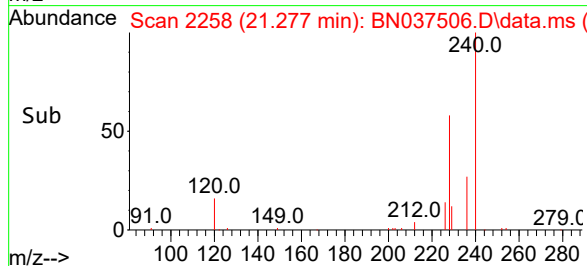
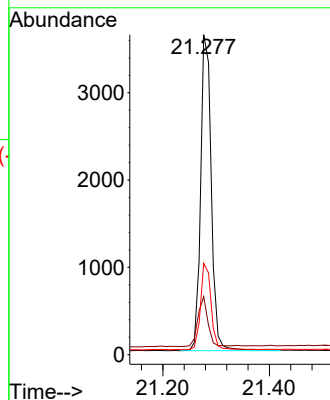
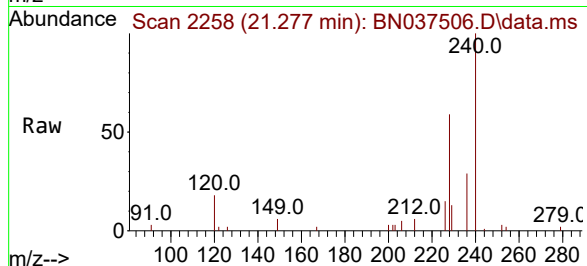
Tgt Ion:240 Resp: 5040

Ion Ratio Lower Upper

240 100

120 18.1 10.7 16.1#

236 28.5 22.6 33.8



#30

Pyrene

Concen: 0.394 ng

RT: 19.517 min Scan# 2011

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

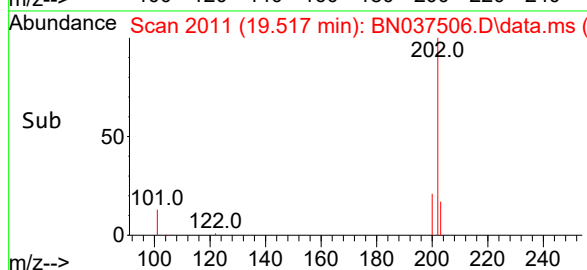
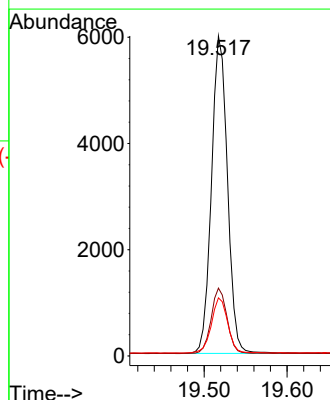
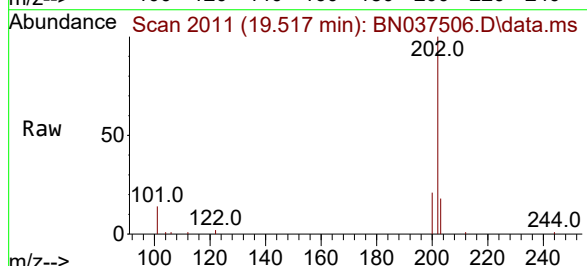
Tgt Ion:202 Resp: 8002

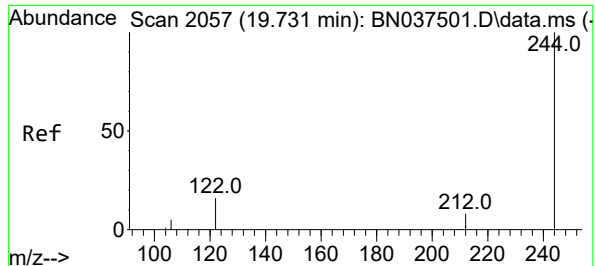
Ion Ratio Lower Upper

202 100

200 20.4 16.5 24.7

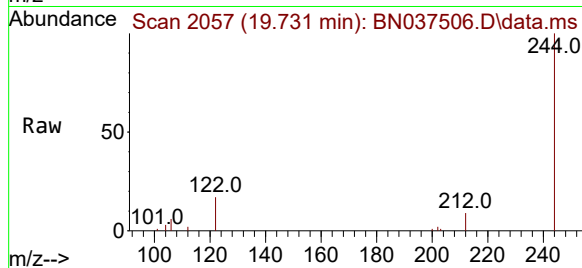
203 17.7 14.3 21.5



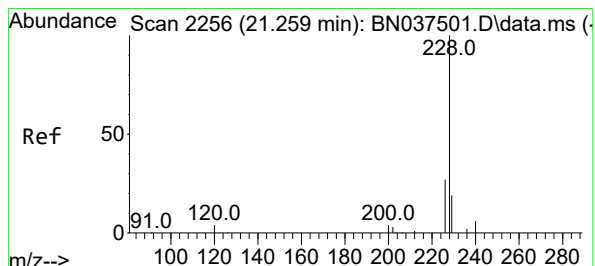
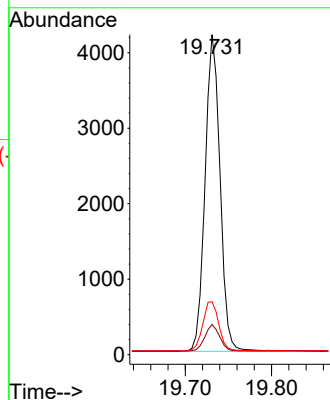
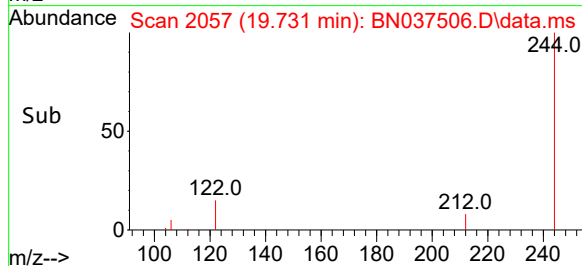


#31
Terphenyl-d14
Concen: 0.467 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BN037506.D
Acq: 15 Jul 2025 16:58

Instrument :
BNA_N
ClientSampleId :
ICVBN071525

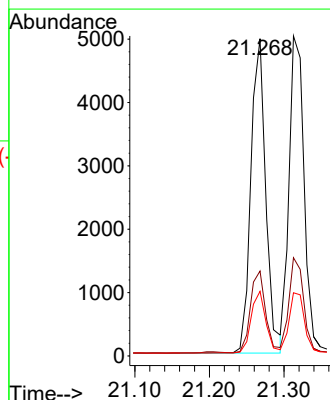
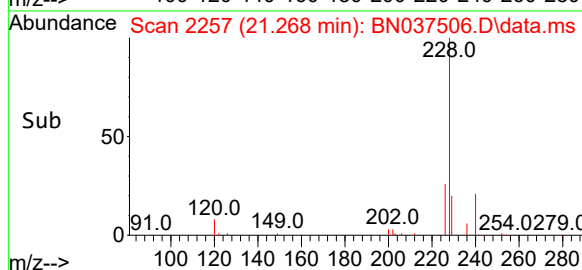
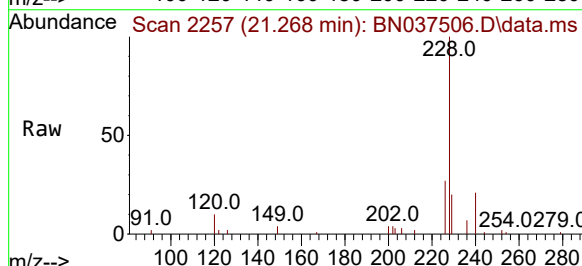


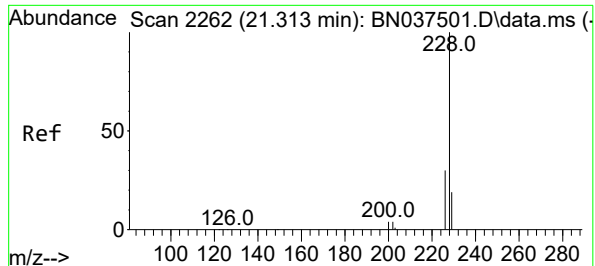
Tgt Ion:244 Resp: 5056
Ion Ratio Lower Upper
244 100
212 9.4 7.4 11.2
122 16.6 13.6 20.4



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

Tgt Ion:228 Resp: 6891
Ion Ratio Lower Upper
228 100
226 26.8 21.9 32.9
229 20.4 15.8 23.8





#33

Chrysene

Concen: 0.388 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

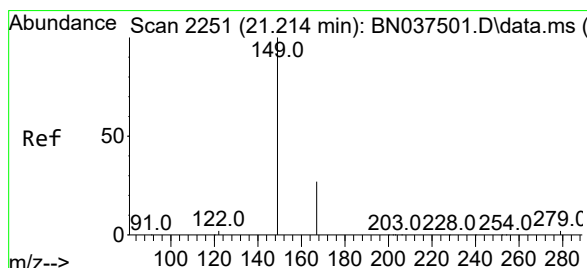
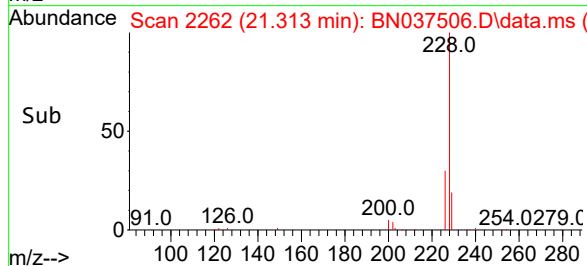
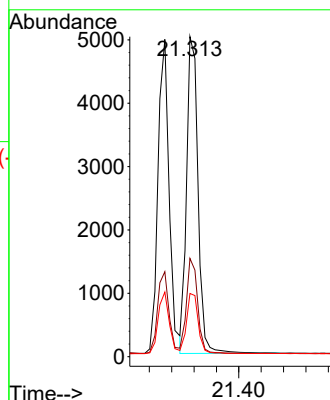
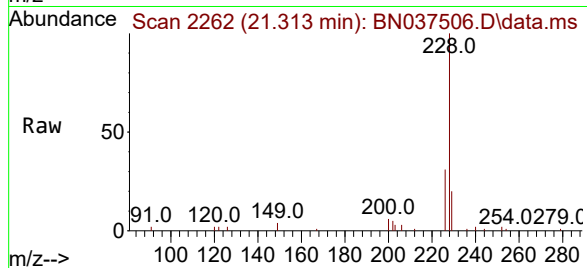
Tgt Ion:228 Resp: 7126

Ion Ratio Lower Upper

228 100

226 30.7 24.2 36.4

229 19.8 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.341 ng

RT: 21.223 min Scan# 2252

Delta R.T. 0.009 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

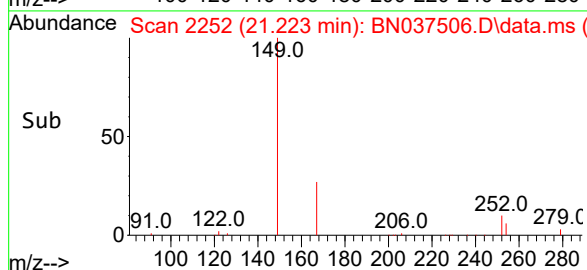
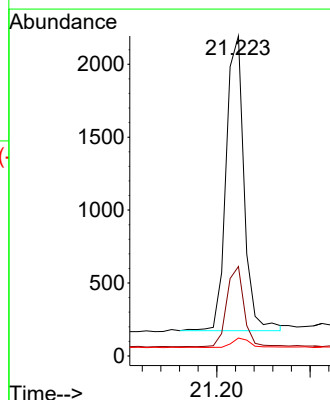
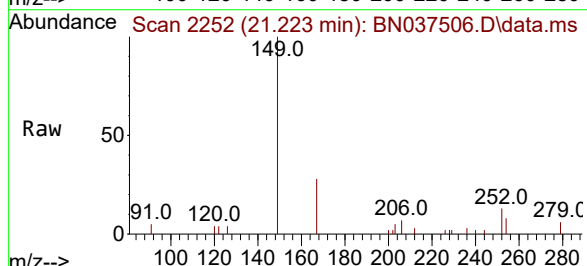
Tgt Ion:149 Resp: 2705

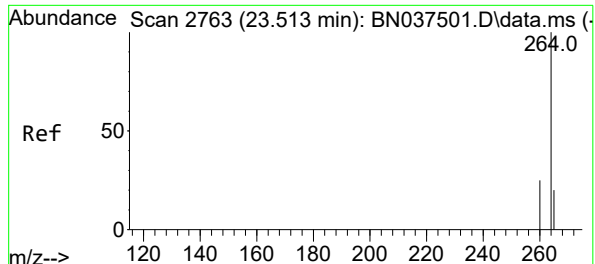
Ion Ratio Lower Upper

149 100

167 26.0 21.8 32.8

279 3.2 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.522 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037506.D

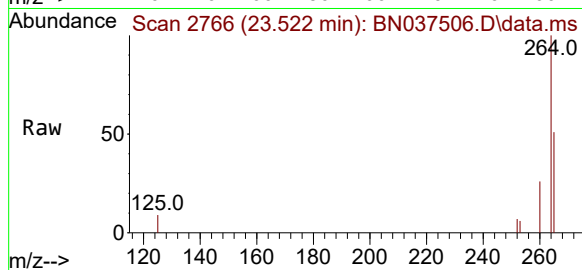
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



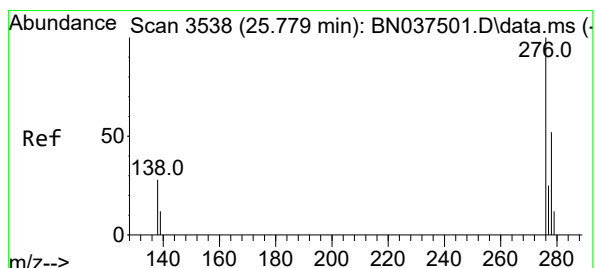
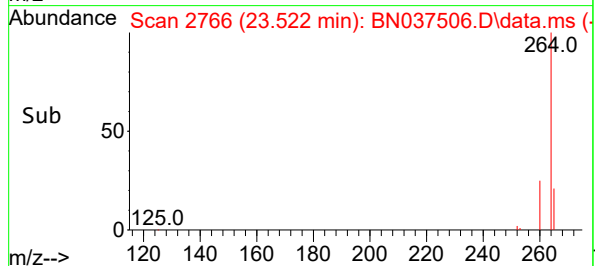
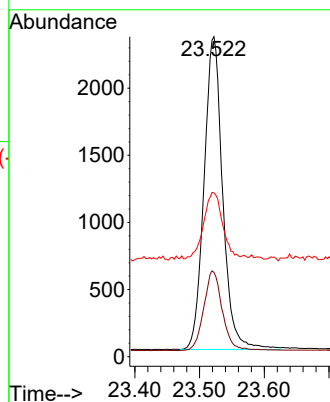
Tgt Ion:264 Resp: 4669

Ion Ratio Lower Upper

264 100

260 26.3 21.2 31.8

265 51.2 40.4 60.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.394 ng

RT: 25.785 min Scan# 3540

Delta R.T. 0.006 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

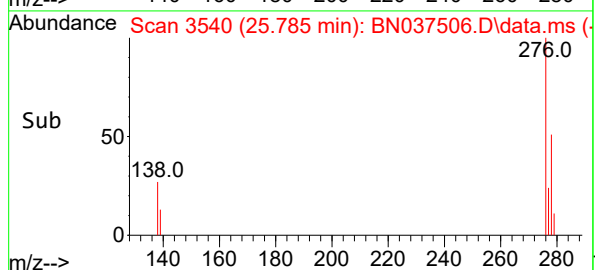
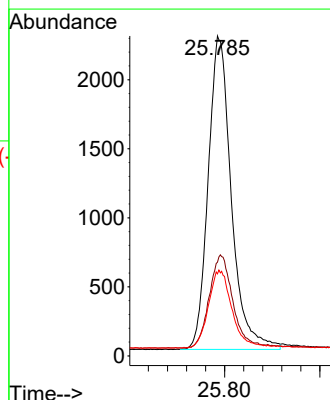
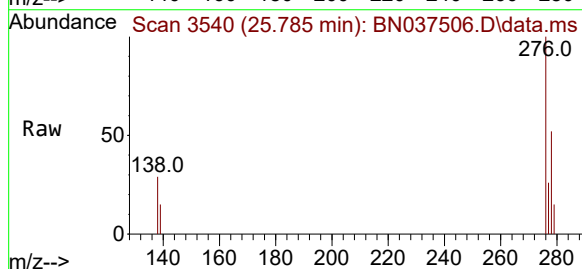
Tgt Ion:276 Resp: 7666

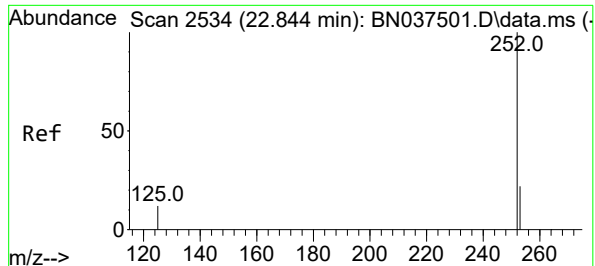
Ion Ratio Lower Upper

276 100

138 30.2 24.0 36.0

277 25.0 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.363 ng

RT: 22.847 min Scan# 2535

Delta R.T. 0.003 min

Lab File: BN037506.D

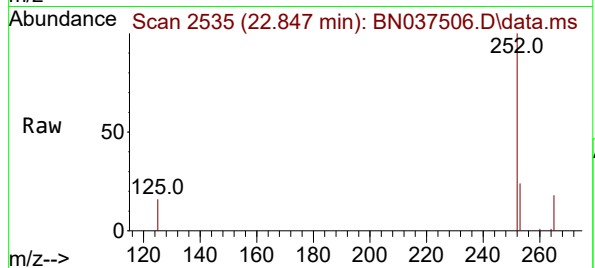
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



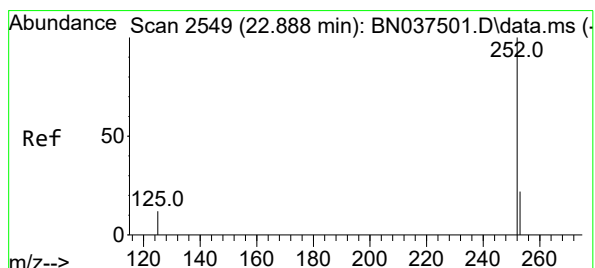
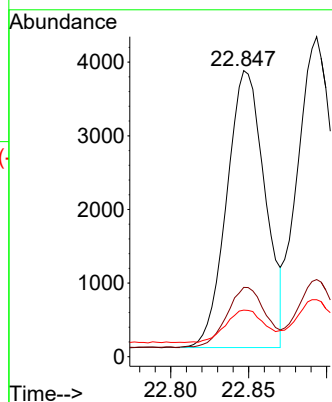
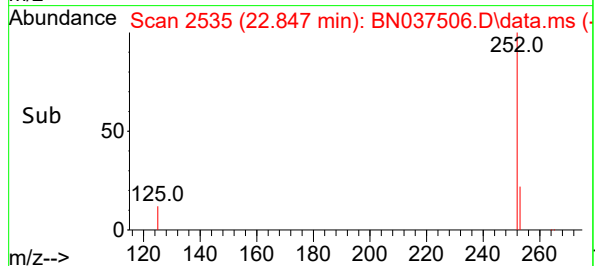
Tgt Ion:252 Resp: 6430

Ion Ratio Lower Upper

252 100

253 24.2 19.5 29.3

125 16.3 13.0 19.6



#38

Benzo(k)fluoranthene

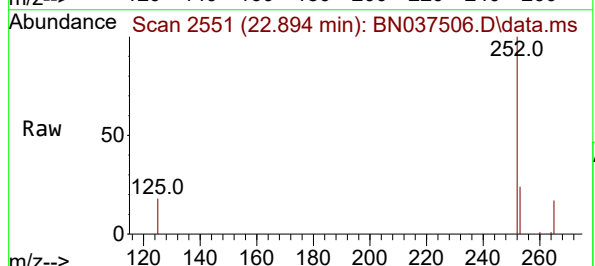
Concen: 0.397 ng

RT: 22.894 min Scan# 2551

Delta R.T. 0.006 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58



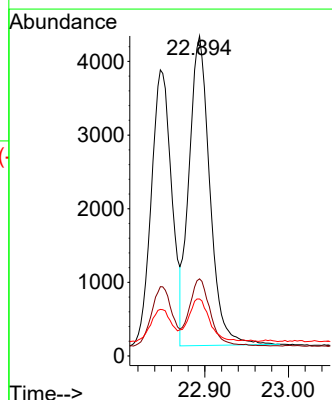
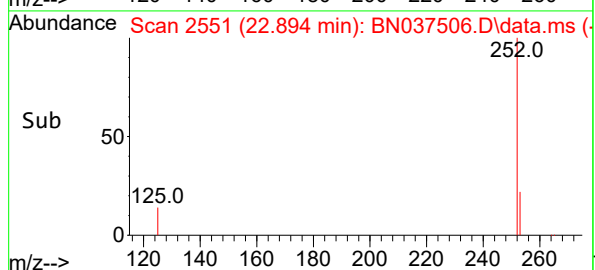
Tgt Ion:252 Resp: 7254

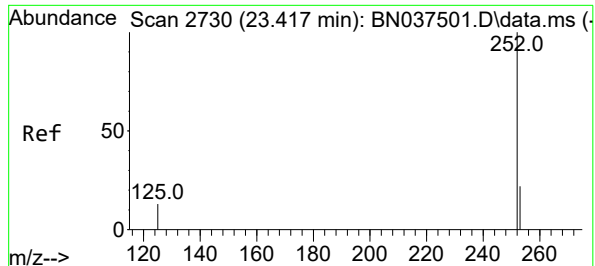
Ion Ratio Lower Upper

252 100

253 24.1 19.5 29.3

125 17.8 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.392 ng

RT: 23.420 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525

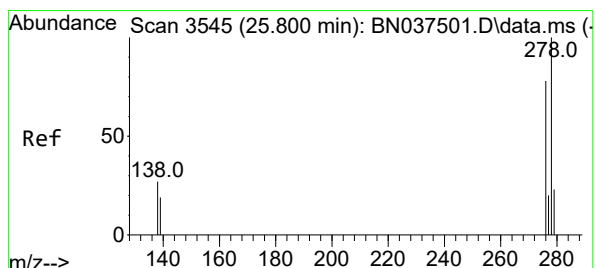
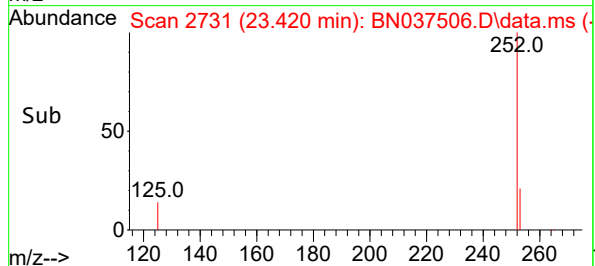
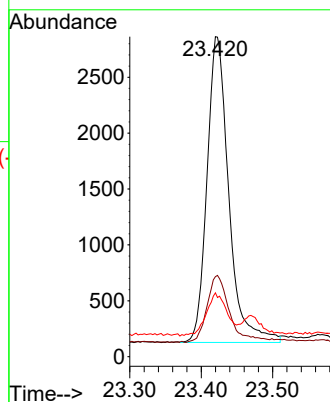
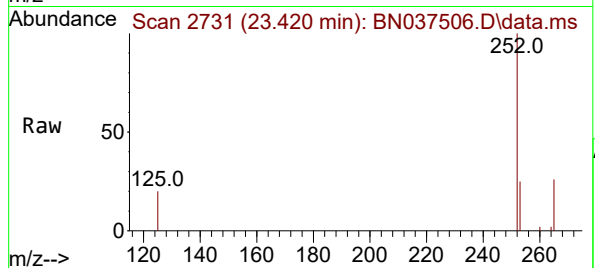
Tgt Ion:252 Resp: 5792

Ion Ratio Lower Upper

252 100

253 25.0 19.9 29.9

125 19.9 15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.394 ng

RT: 25.806 min Scan# 3547

Delta R.T. 0.006 min

Lab File: BN037506.D

Acq: 15 Jul 2025 16:58

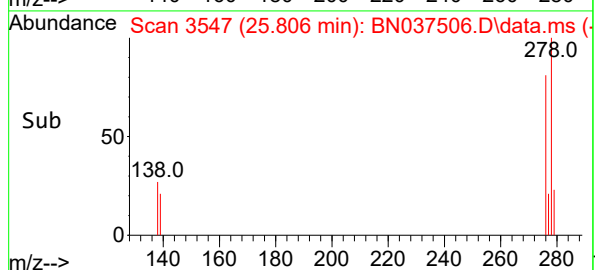
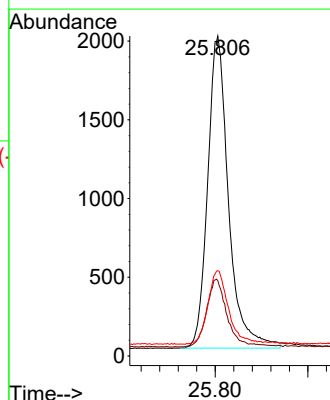
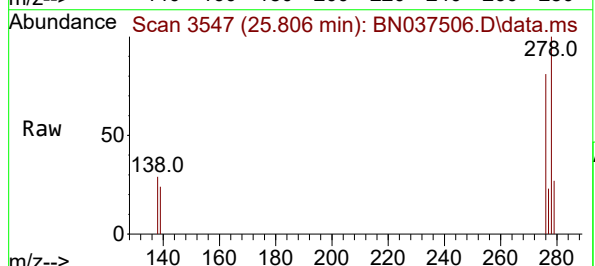
Tgt Ion:278 Resp: 6203

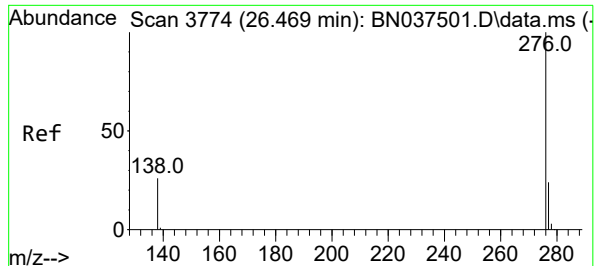
Ion Ratio Lower Upper

278 100

139 23.6 17.5 26.3

279 26.7 21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.369 ng

RT: 26.472 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037506.D

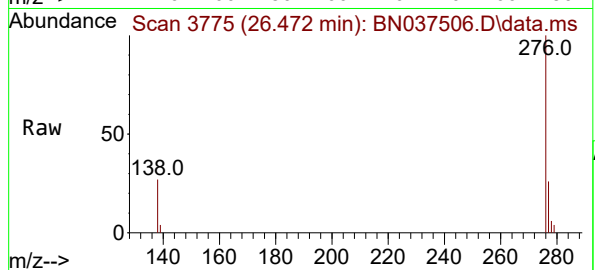
Acq: 15 Jul 2025 16:58

Instrument :

BNA_N

ClientSampleId :

ICVBN071525



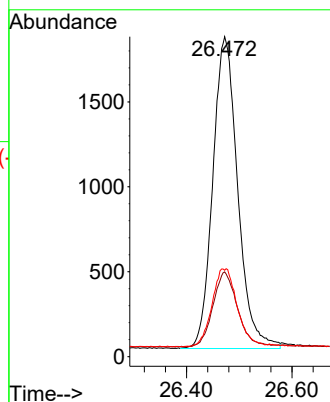
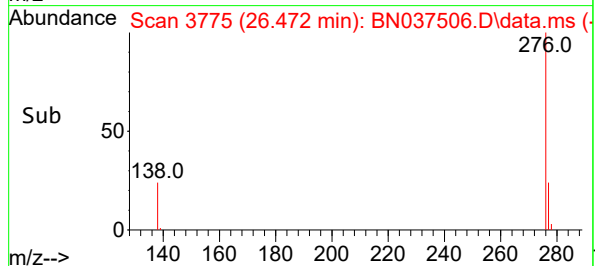
Tgt Ion:276 Resp: 6018

Ion Ratio Lower Upper

276 100

277 26.5 20.9 31.3

138 27.0 22.6 33.8



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

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN071525

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
2	1,4-Dioxane	0.385	0.452	-17.4	112	0.00
3	n-Nitrosodimethylamine	0.484	0.484	0.0	102	0.00
4 S	2-Fluorophenol	0.989	0.908	8.2	90	0.00
5 S	Phenol-d6	1.241	1.076	13.3	88	0.00
6	bis(2-Chloroethyl)ether	1.033	1.072	-3.8	102	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
8 S	Nitrobenzene-d5	0.299	0.310	-3.7	109	0.00
9	Naphthalene	1.067	1.038	2.7	99	0.00
10	Hexachlorobutadiene	0.236	0.238	-0.8	101	0.00
11 SURR	2-Methylnaphthalene-d10	0.574	0.581	-1.2	107	0.00
12	2-Methylnaphthalene	0.701	0.618	11.8	91	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
14 S	2,4,6-Tribromophenol	0.197	0.159	19.3	92	0.00
15 S	2-Fluorobiphenyl	2.080	2.399	-15.3	118	0.00
16	Acenaphthylene	1.792	1.867	-4.2	109	0.00
17	Acenaphthene	1.218	1.147	5.8	98	0.00
18	Fluorene	1.569	1.508	3.9	102	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.042	26.3#	100	0.00
21	4-Bromophenyl-phenylether	0.256	0.247	3.5	99	0.00
22	Hexachlorobenzene	0.331	0.341	-3.0	102	0.00
23	Atrazine	0.179	0.166	7.3	102	0.00
24	Pentachlorophenol	0.149	0.107	28.2#	84	0.00
25	Phenanthrene	1.198	1.206	-0.7	102	0.00
26	Anthracene	1.093	1.094	-0.1	106	0.00
27 SURR	Fluoranthene-d10	1.060	1.025	3.3	104	0.00
28	Fluoranthene	1.382	1.273	7.9	97	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	97	0.00
30	Pyrene	1.612	1.588	1.5	96	0.00
31 S	Terphenyl-d14	0.859	1.003	-16.8	115	0.00
32	Benzo(a)anthracene	1.401	1.367	2.4	99	0.00
33	Chrysene	1.459	1.414	3.1	95	0.00
34	Bis(2-ethylhexyl)phthalate	0.630	0.537	14.8	92	0.00
35 I	Perylene-d12	1.000	1.000	0.0	97	0.00
36	Indeno(1,2,3-cd)pyrene	1.666	1.642	1.4	105	0.00
37	Benzo(b)fluoranthene	1.518	1.377	9.3	92	0.00
38	Benzo(k)fluoranthene	1.567	1.554	0.8	102	0.00
39 C	Benzo(a)pyrene	1.267	1.241	2.1	101	0.00
40	Dibenzo(a,h)anthracene	1.349	1.329	1.5	106	0.00
41	Benzo(g,h,i)perylene	1.397	1.289	7.7	96	0.00

(#) = Out of Range

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

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

Instrument :
BNA_N
ClientSampleId :
ICVBN071525

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	98	0.00
2	1,4-Dioxane	0.400	0.470	-17.5	112	0.00
3	n-Nitrosodimethylamine	0.400	0.401	-0.3	102	0.00
4 S	2-Fluorophenol	0.400	0.367	8.3	90	0.00
5 S	Phenol-d6	0.400	0.347	13.3	88	0.00
6	bis(2-Chloroethyl)ether	0.400	0.415	-3.7	102	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	100	0.00
8 S	Nitrobenzene-d5	0.400	0.415	-3.7	109	0.00
9	Naphthalene	0.400	0.389	2.8	99	0.00
10	Hexachlorobutadiene	0.400	0.405	-1.3	101	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.405	-1.3	107	0.00
12	2-Methylnaphthalene	0.400	0.353	11.8	91	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	100	0.00
14 S	2,4,6-Tribromophenol	0.400	0.324	19.0	92	0.00
15 S	2-Fluorobiphenyl	0.400	0.461	-15.3	118	0.00
16	Acenaphthylene	0.400	0.417	-4.2	109	0.00
17	Acenaphthene	0.400	0.377	5.8	98	0.00
18	Fluorene	0.400	0.384	4.0	102	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	98	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.401	-0.3	100	0.00
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	99	0.00
22	Hexachlorobenzene	0.400	0.412	-3.0	102	0.00
23	Atrazine	0.400	0.371	7.3	102	0.00
24	Pentachlorophenol	0.400	0.289	27.8#	84	0.00
25	Phenanthrene	0.400	0.403	-0.8	102	0.00
26	Anthracene	0.400	0.400	0.0	106	0.00
27 SURR	Fluoranthene-d10	0.400	0.387	3.3	104	0.00
28	Fluoranthene	0.400	0.368	8.0	97	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	97	0.00
30	Pyrene	0.400	0.394	1.5	96	0.00
31 S	Terphenyl-d14	0.400	0.467	-16.8	115	0.00
32	Benzo(a)anthracene	0.400	0.390	2.5	99	0.00
33	Chrysene	0.400	0.388	3.0	95	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.341	14.8	92	0.00
35 I	Perylene-d12	0.400	0.400	0.0	97	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.394	1.5	105	0.00
37	Benzo(b)fluoranthene	0.400	0.363	9.3	92	0.00
38	Benzo(k)fluoranthene	0.400	0.397	0.8	102	0.00
39 C	Benzo(a)pyrene	0.400	0.392	2.0	101	0.00
40	Dibenzo(a,h)anthracene	0.400	0.394	1.5	106	0.00
41	Benzo(g,h,i)perylene	0.400	0.369	7.8	96	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2643
 Instrument ID: BNA_N Calibration Date/Time: 07/22/2025 10:51
 Lab File ID: BN037532.D Init. Calib. Date(s): 07/15/2025 07/15/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:36 16:14
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.574	0.525		-8.5	20.0
Fluoranthene-d10	1.060	0.922		-13.0	20.0
2-Fluorophenol	0.989	0.964		-2.5	20.0
Phenol-d6	1.241	1.193		-3.9	20.0
Nitrobenzene-d5	0.299	0.268		-10.4	20.0
2-Fluorobiphenyl	2.080	2.108		1.3	20.0
2,4,6-Tribromophenol	0.197	0.146		-25.9	20.0
Terphenyl-d14	0.859	0.750		-12.7	20.0
1,4-Dioxane	0.385	0.413		7.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
 Data File : BN037532.D
 Acq On : 22 Jul 2025 10:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jul 22 11:15:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

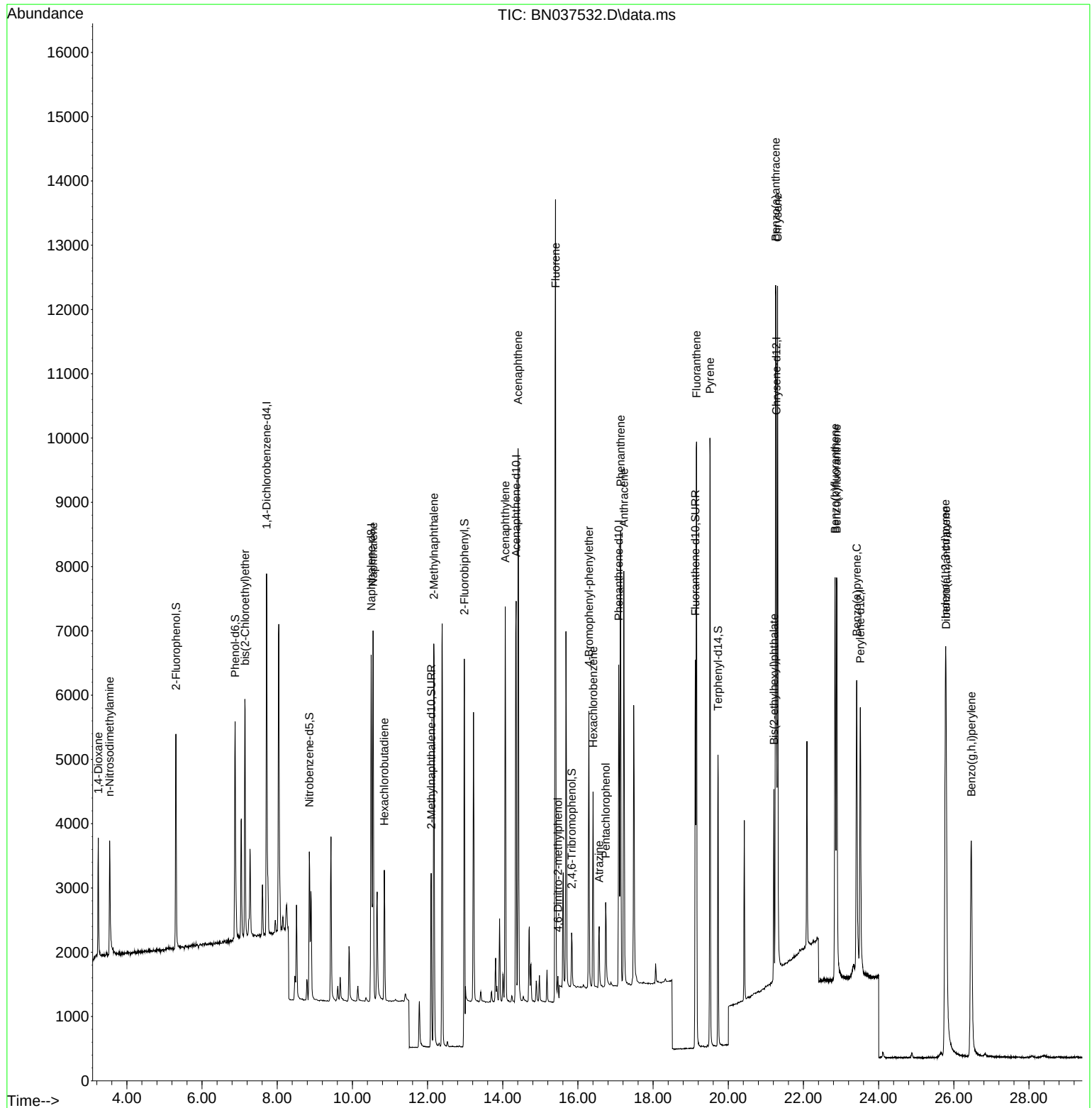
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2751	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	7206	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	3790	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	7043	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	6014	0.400	ng	0.00
35) Perylene-d12	23.513	264	5778	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2652	0.390	ng	0.00
5) Phenol-d6	6.879	99	3282	0.385	ng	0.00
8) Nitrobenzene-d5	8.854	82	1931	0.358	ng	-0.01
11) 2-Methylnaphthalene-d10	12.095	152	3783	0.366	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	553	0.297	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	7991	0.405	ng	0.00
27) Fluoranthene-d10	19.122	212	6491	0.348	ng	0.00
31) Terphenyl-d14	19.726	244	4509	0.349	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1135	0.429	ng	93
3) n-Nitrosodimethylamine	3.543	42	1226	0.369	ng	# 97
6) bis(2-Chloroethyl)ether	7.146	93	2858	0.402	ng	99
9) Naphthalene	10.551	128	7455	0.388	ng	100
10) Hexachlorobutadiene	10.850	225	1651	0.389	ng	# 99
12) 2-Methylnaphthalene	12.166	142	4760	0.377	ng	99
16) Acenaphthylene	14.067	152	6666	0.393	ng	100
17) Acenaphthene	14.409	154	4419	0.383	ng	99
18) Fluorene	15.403	166	5599	0.377	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	281	0.385	ng	86
21) 4-Bromophenyl-phenylether	16.292	248	1722	0.382	ng	# 90
22) Hexachlorobenzene	16.404	284	2345	0.402	ng	99
23) Atrazine	16.565	200	919	0.292	ng	98
24) Pentachlorophenol	16.739	266	796	0.304	ng	97
25) Phenanthrene	17.136	178	8137	0.386	ng	100
26) Anthracene	17.223	178	7179	0.373	ng	100
28) Fluoranthene	19.155	202	8766	0.360	ng	100
30) Pyrene	19.513	202	8728	0.360	ng	100
32) Benzo(a)anthracene	21.259	228	7938	0.377	ng	100
33) Chrysene	21.313	228	9201	0.420	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	2745	0.290	ng	98
36) Indeno(1,2,3-cd)pyrene	25.779	276	9143	0.380	ng	99
37) Benzo(b)fluoranthene	22.841	252	7956	0.363	ng	99
38) Benzo(k)fluoranthene	22.885	252	8593	0.380	ng	97
39) Benzo(a)pyrene	23.417	252	7309	0.399	ng	98
40) Dibenzo(a,h)anthracene	25.794	278	6954	0.357	ng	97
41) Benzo(g,h,i)perylene	26.466	276	7290	0.361	ng	99

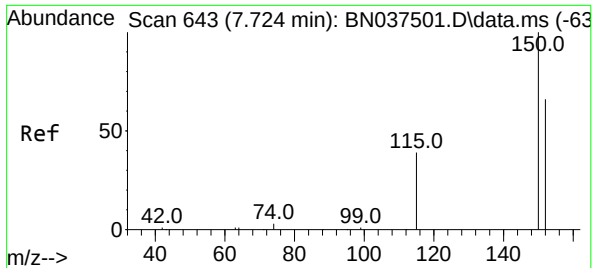
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\  
Data File : BN037532.D  
Acq On    : 22 Jul 2025  10:51  
Operator  : RC/JU  
Sample    : SSTDCCC0.4  
Misc      :  
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jul 22 11:15:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Qlast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

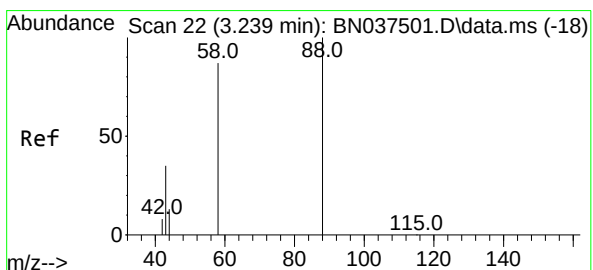
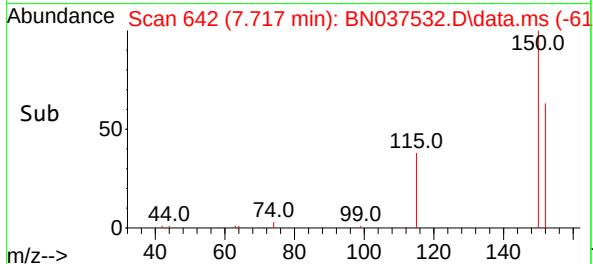
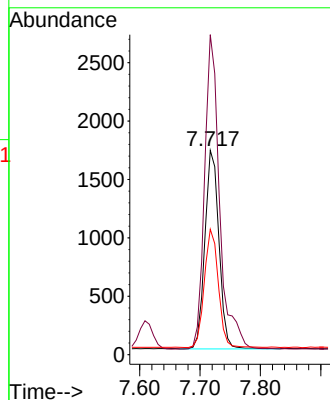
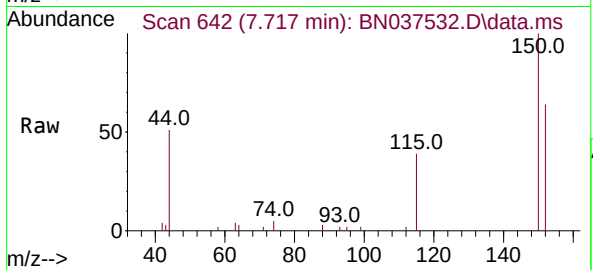




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

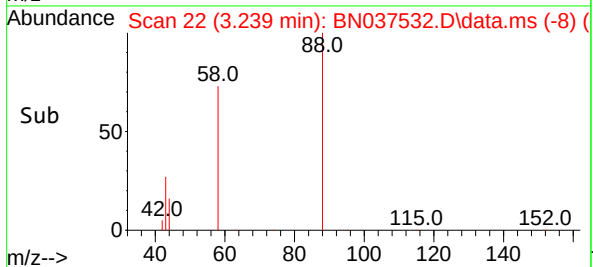
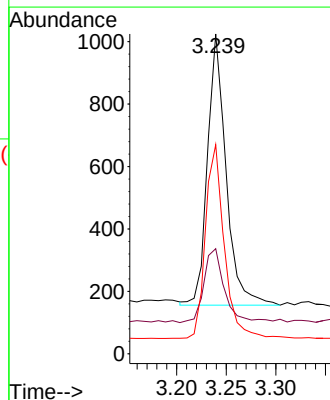
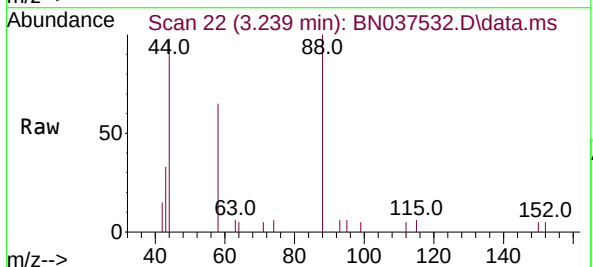
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

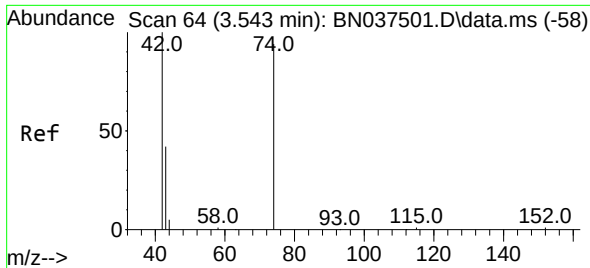
Tgt Ion:152 Resp: 2751
Ion Ratio Lower Upper
152 100
150 156.7 119.8 179.8
115 61.4 49.1 73.7



#2
1,4-Dioxane
Concen: 0.429 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion: 88 Resp: 1135
Ion Ratio Lower Upper
88 100
43 30.3 27.5 41.3
58 72.5 62.7 94.1

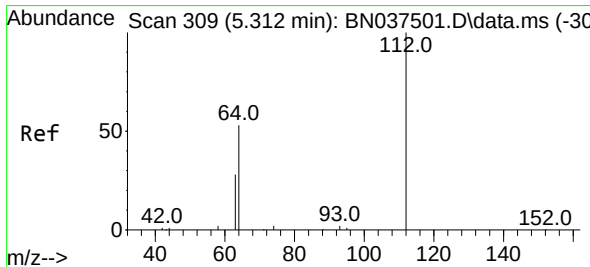
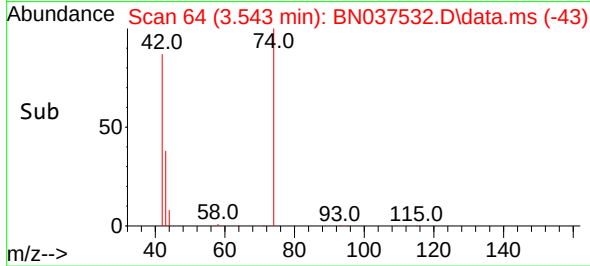
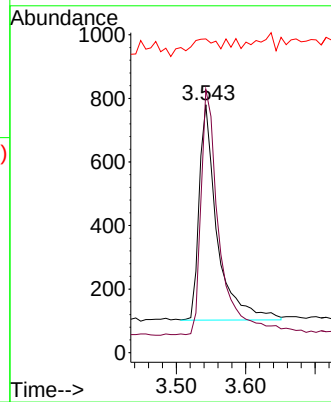
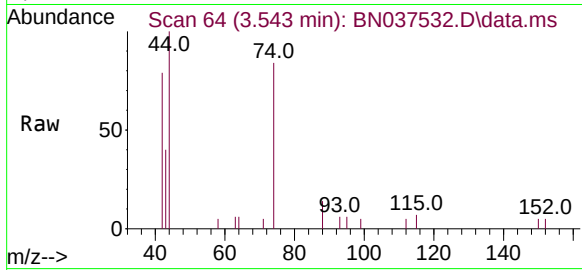




#3
n-Nitrosodimethylamine
Concen: 0.369 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

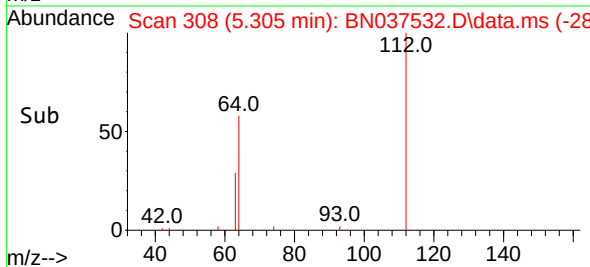
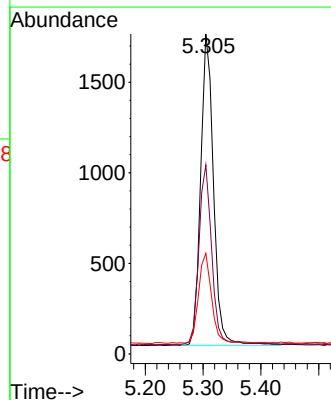
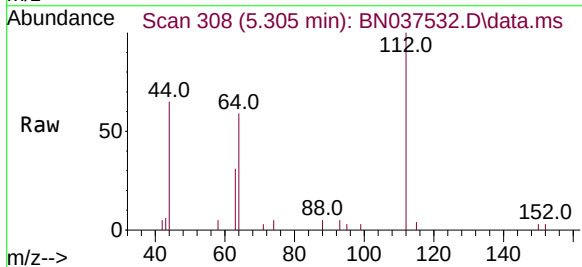
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

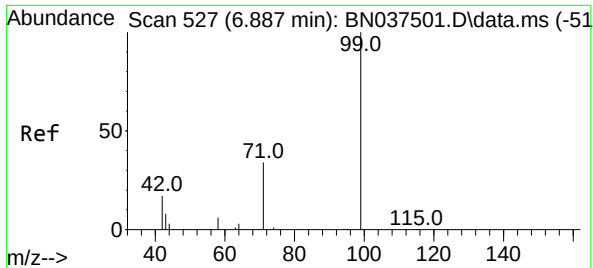
Tgt Ion: 42 Resp: 1226
Ion Ratio Lower Upper
42 100
74 115.9 91.8 137.6
44 13.2 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.390 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion: 112 Resp: 2652
Ion Ratio Lower Upper
112 100
64 58.3 45.1 67.7
63 28.8 23.8 35.8

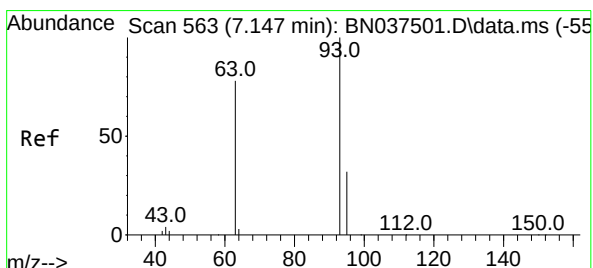
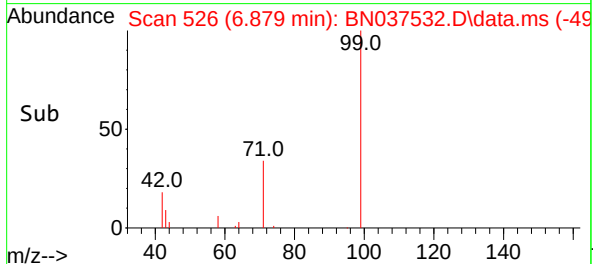
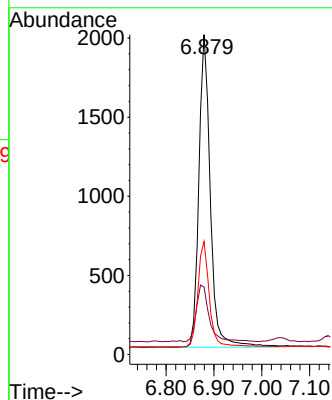
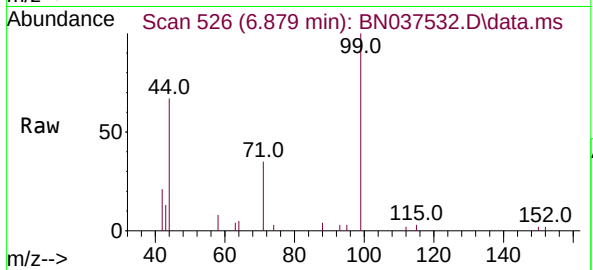




#5
Phenol-d6
Concen: 0.385 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

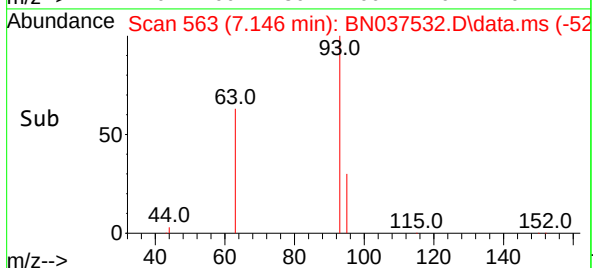
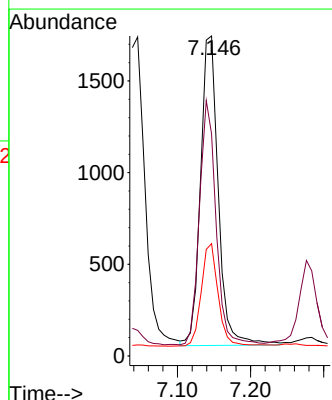
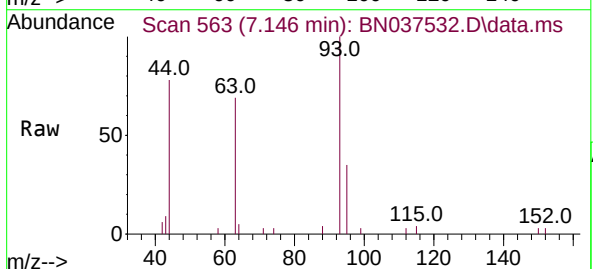
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

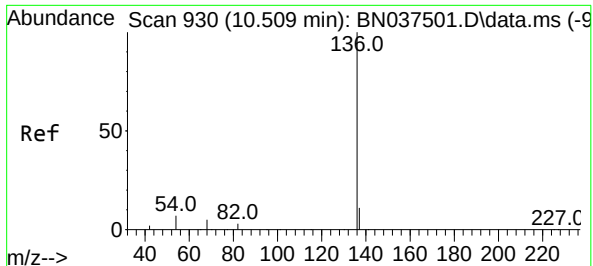
Tgt Ion: 99 Resp: 3282
Ion Ratio Lower Upper
99 100
42 20.7 17.1 25.7
71 33.7 27.8 41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion: 93 Resp: 2858
Ion Ratio Lower Upper
93 100
63 73.2 58.2 87.4
95 31.9 25.3 37.9

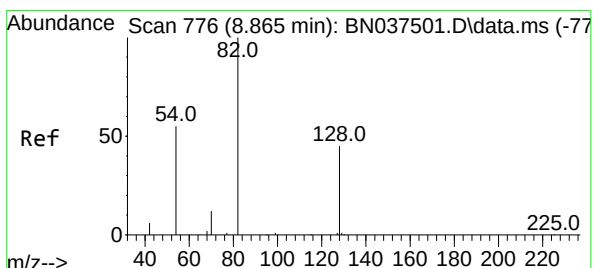
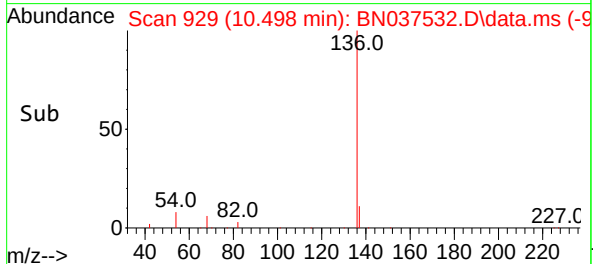
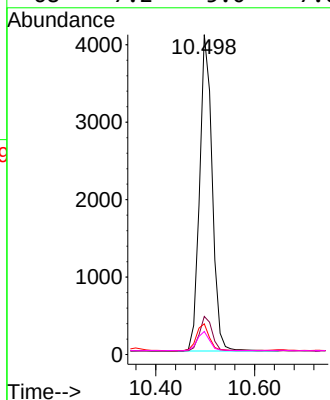
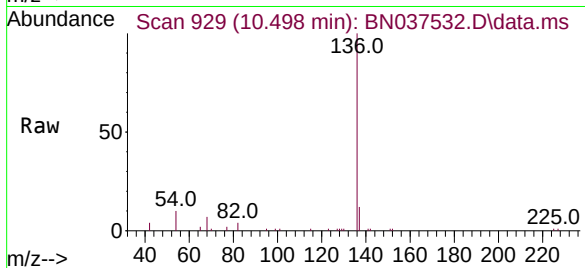




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

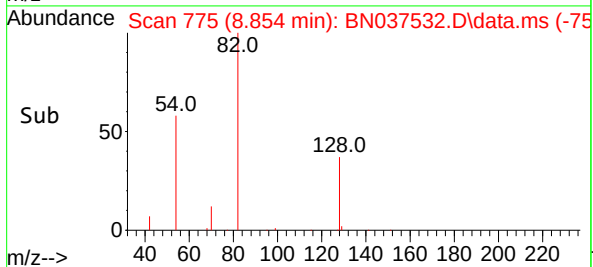
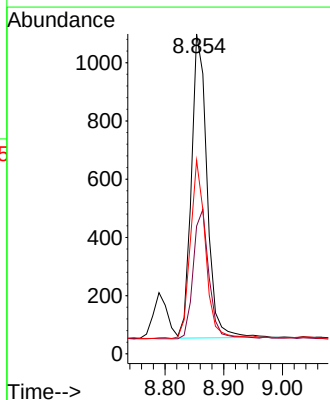
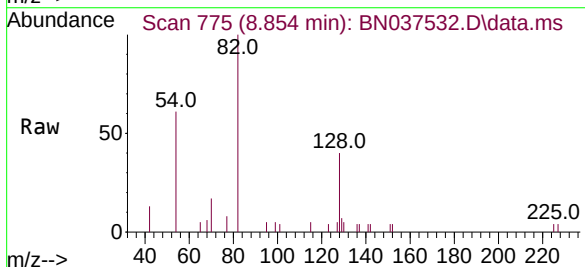
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

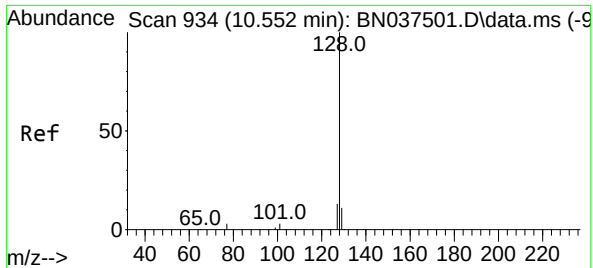
Tgt Ion:	136	Resp:	7206
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	9.6	6.6	9.8
68	7.2	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.011 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:	82	Resp:	1931
Ion	Ratio	Lower	Upper
82	100		
128	39.9	37.5	56.3
54	60.5	45.3	67.9

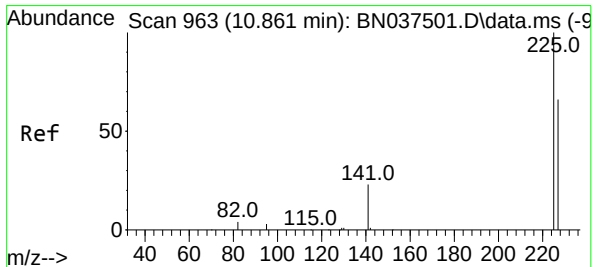
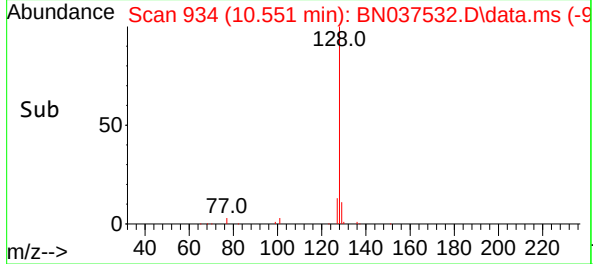
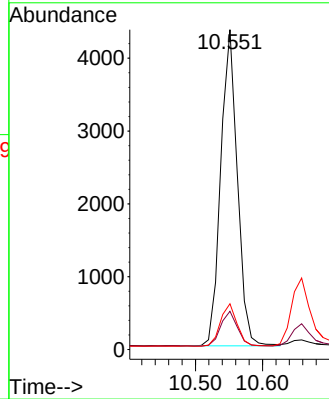
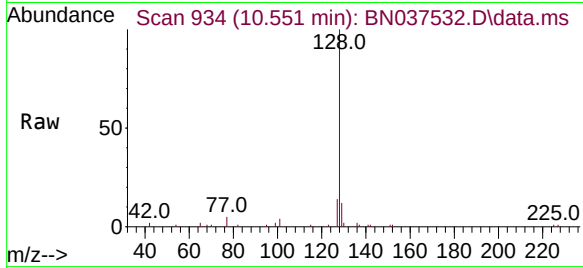




#9
Naphthalene
Concen: 0.388 ng
RT: 10.551 min Scan# 934
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

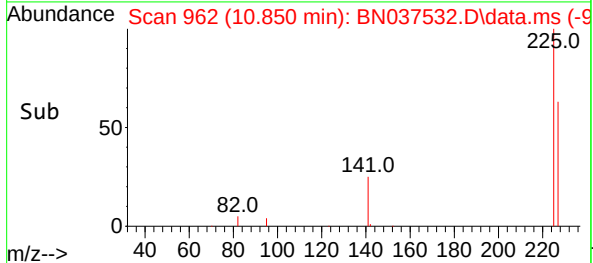
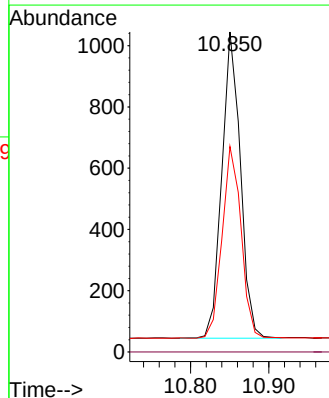
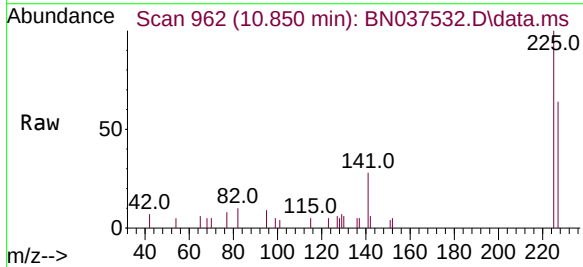
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

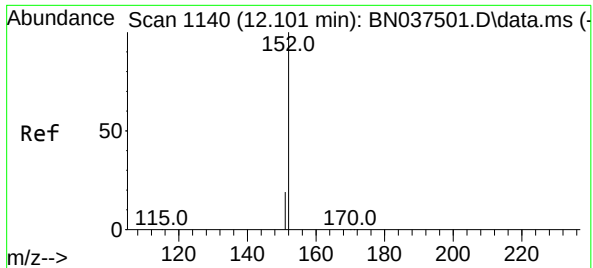
Tgt Ion:	128	Resp:	7455
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.7	14.5
127	14.3	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:	225	Resp:	1651
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.0	76.4

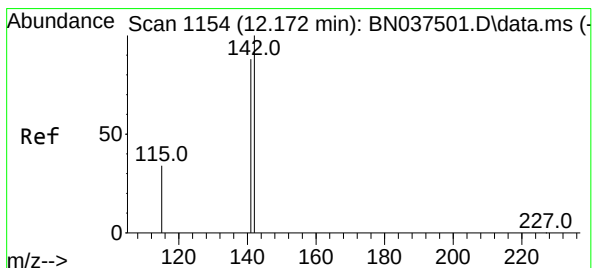
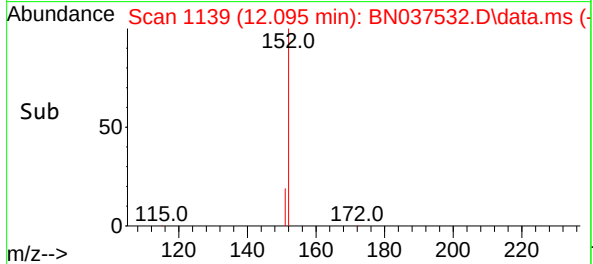
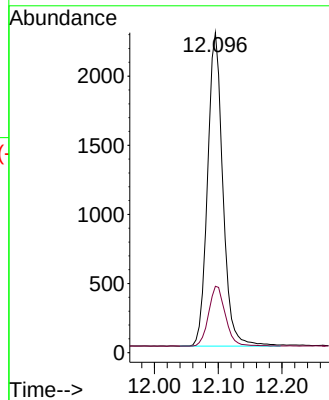
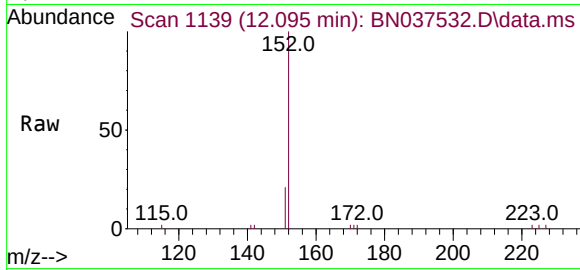




#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 12.095 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

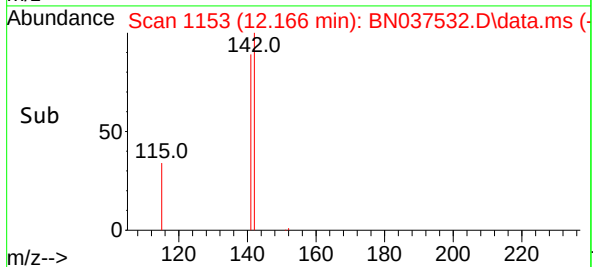
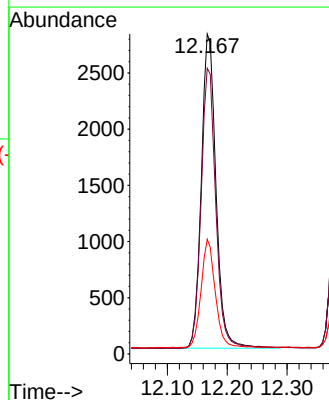
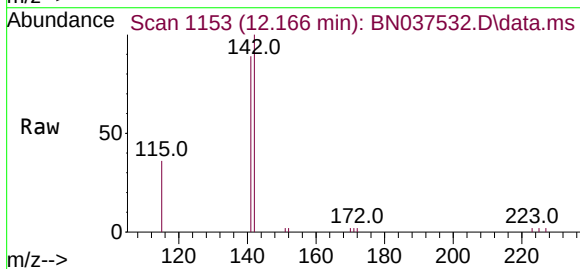
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

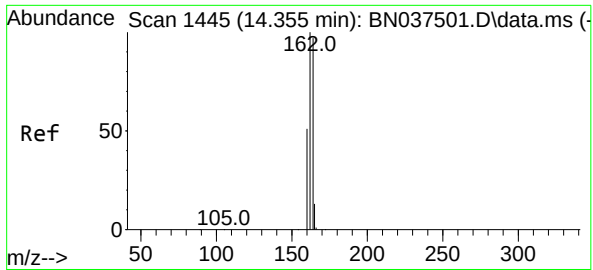
Tgt Ion:152 Resp: 3783
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.377 ng
RT: 12.166 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:142 Resp: 4760
Ion Ratio Lower Upper
142 100
141 89.3 71.0 106.4
115 35.8 29.0 43.4

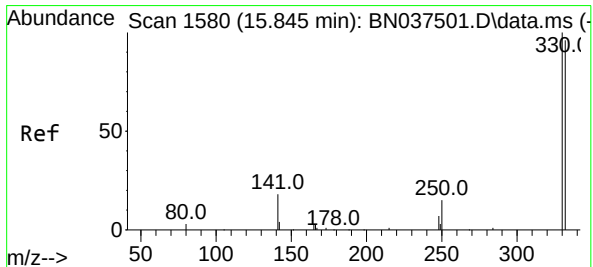
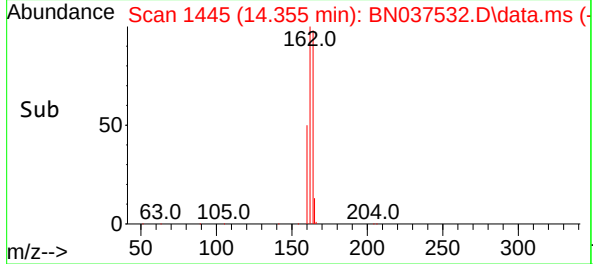
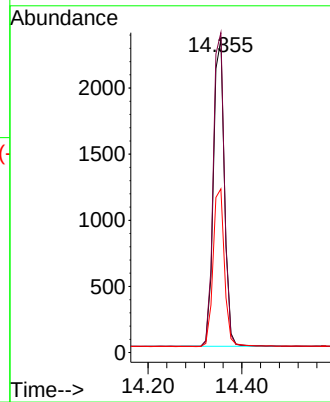
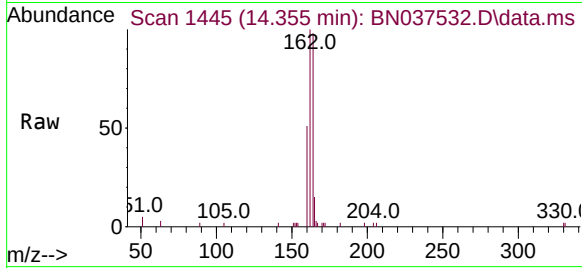




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

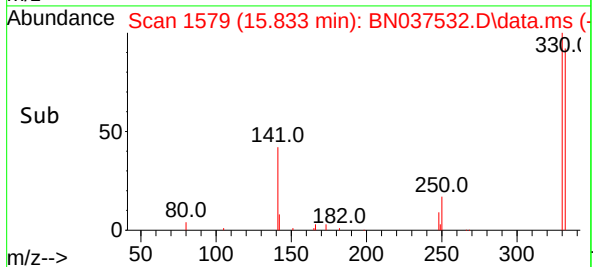
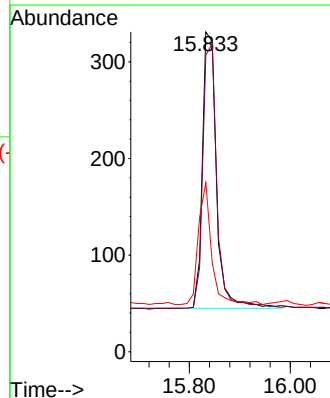
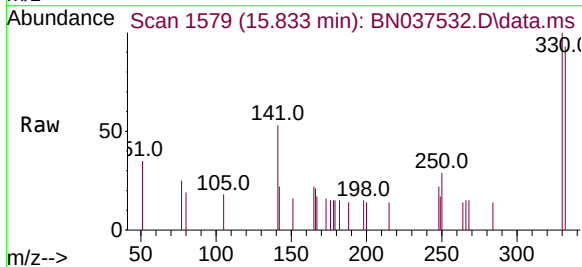
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

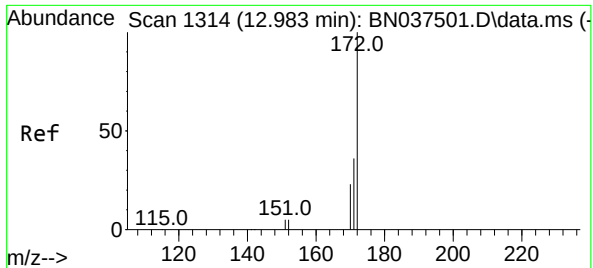
Tgt Ion:	164	Resp:	3790
Ion Ratio	Lower	Upper	
164	100		
162	102.2	82.0	123.0
160	52.3	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.297 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.013 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:	330	Resp:	553
Ion Ratio	Lower	Upper	
330	100		
332	95.5	76.1	114.1
141	40.9	33.4	50.0

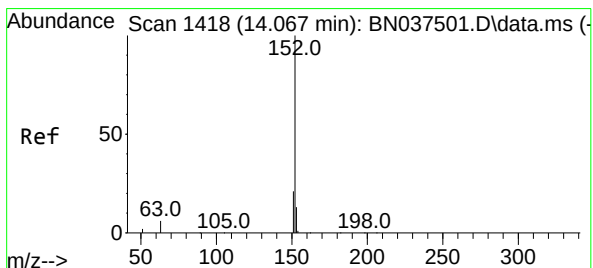
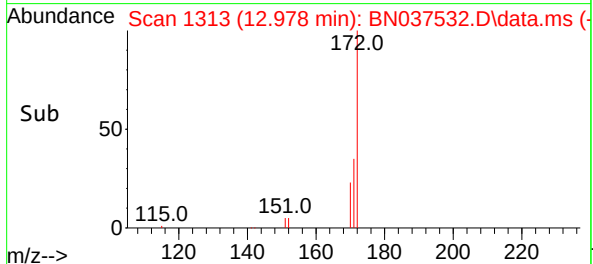
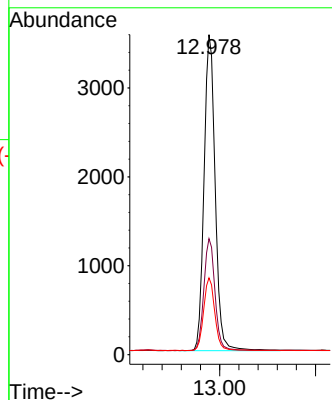
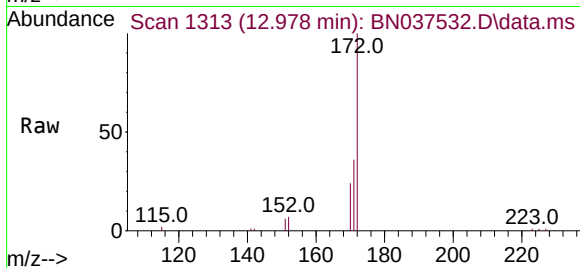




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

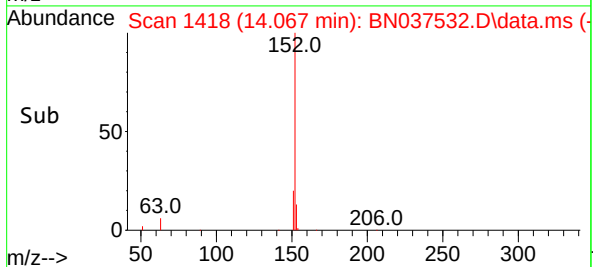
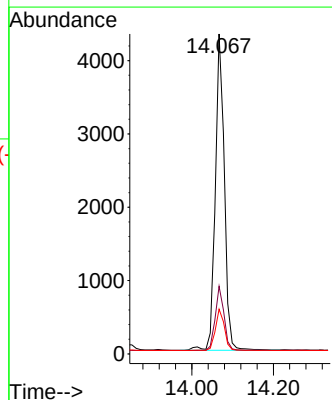
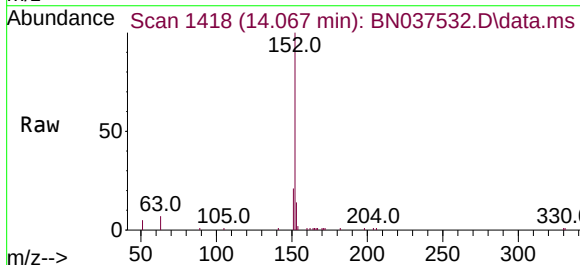
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

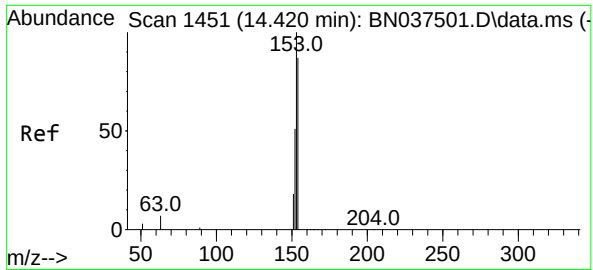
Tgt Ion:	172	Resp:	7991
Ion Ratio	Lower	Upper	
172	100		
171	36.2	29.4	44.2
170	24.0	19.4	29.0



#16
Acenaphthylene
Concen: 0.393 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:	152	Resp:	6666
Ion Ratio	Lower	Upper	
152	100		
151	19.8	15.9	23.9
153	13.1	10.7	16.1

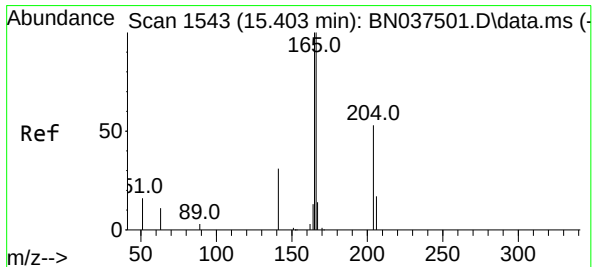
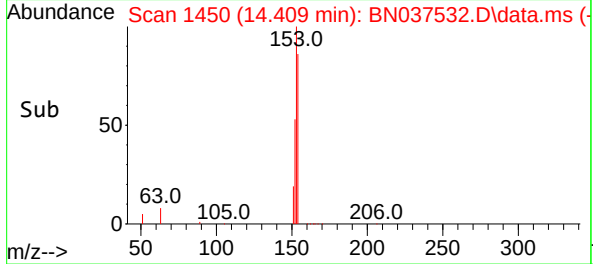
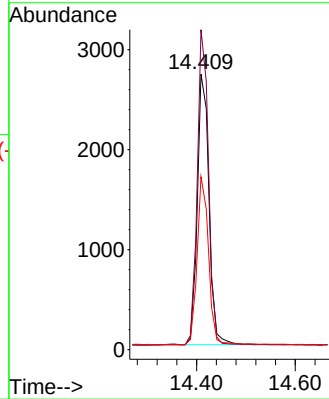
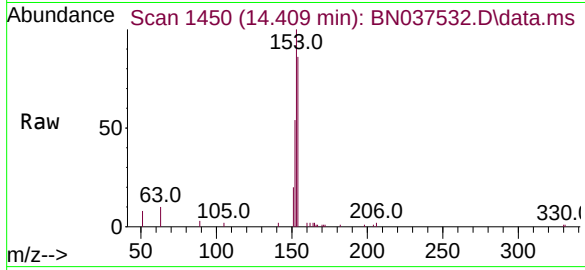




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.409 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

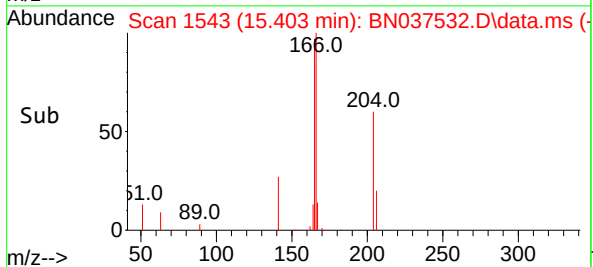
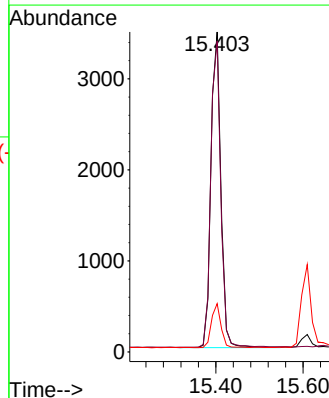
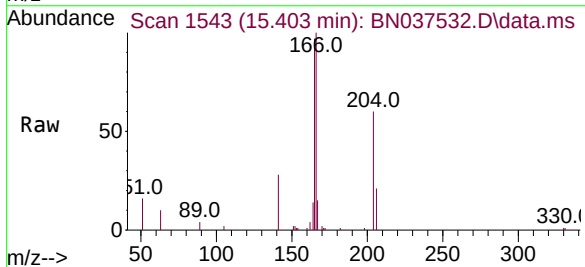
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

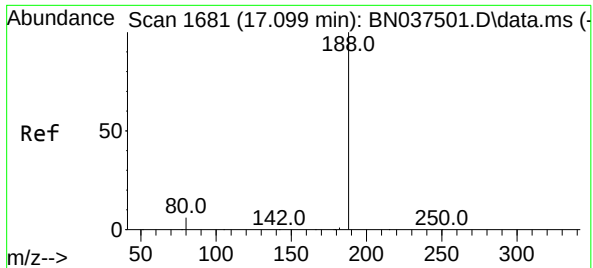
Tgt Ion:154 Resp: 4419
Ion Ratio Lower Upper
154 100
153 112.7 89.2 133.8
152 61.0 48.0 72.0



#18
Fluorene
Concen: 0.377 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:166 Resp: 5599
Ion Ratio Lower Upper
166 100
165 97.3 78.1 117.1
167 13.2 11.0 16.6

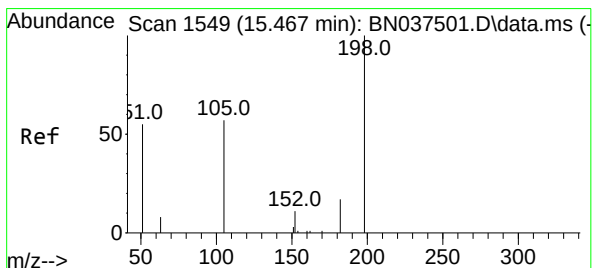
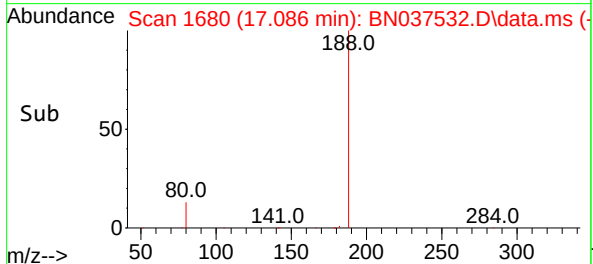
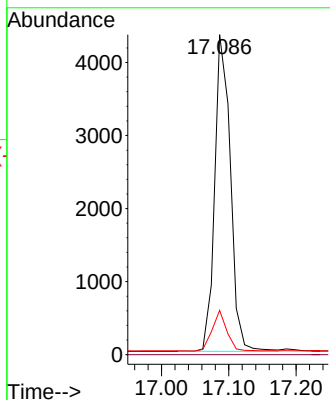
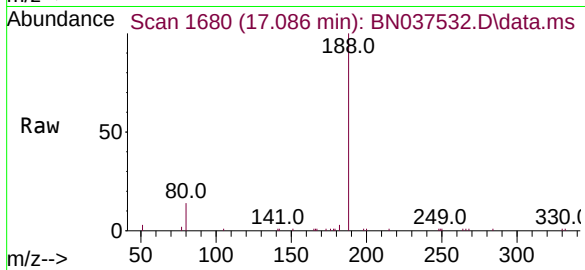




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1681
Delta R.T. -0.013 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

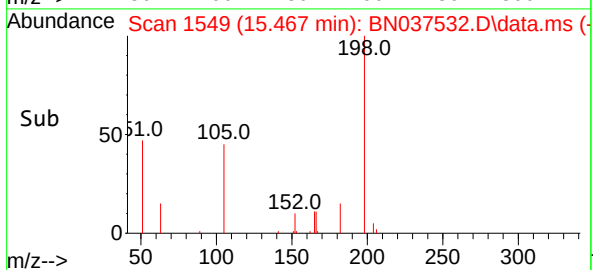
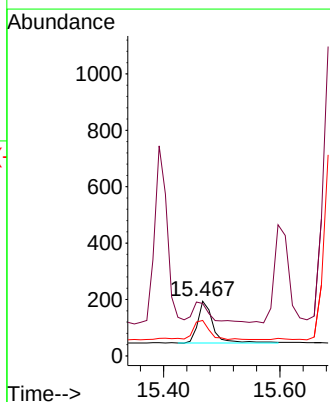
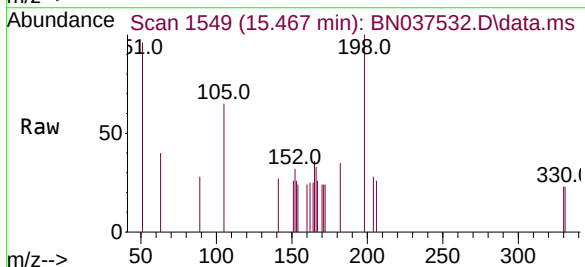
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

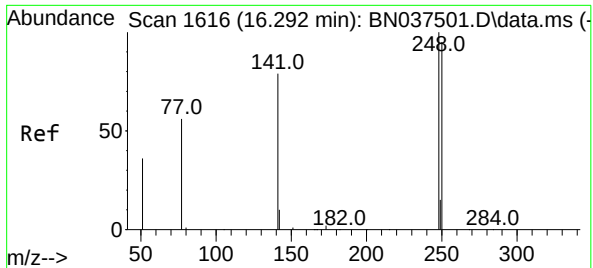
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.9	6.0	9.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.385 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion	Ratio	Lower	Upper
198	100		
51	95.9	88.5	132.7
105	64.9	61.2	91.8

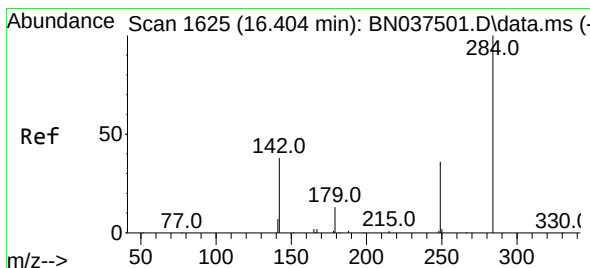
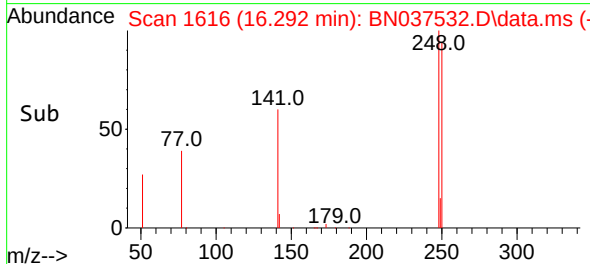
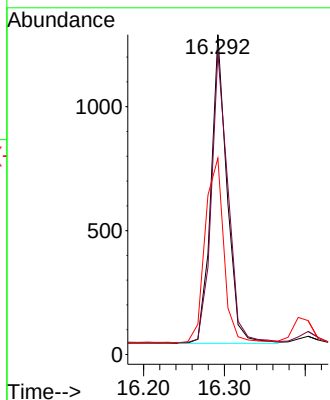
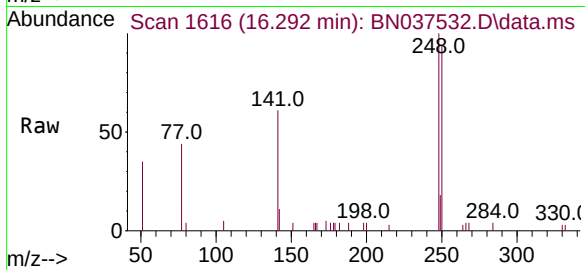




#21
4-Bromophenyl-phenylether
Concen: 0.382 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

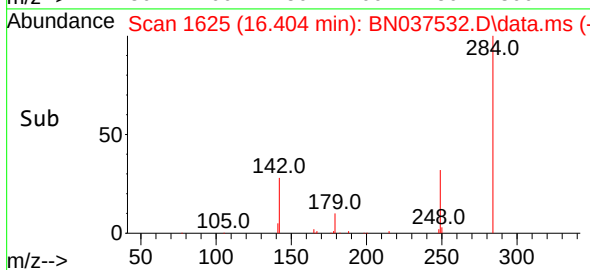
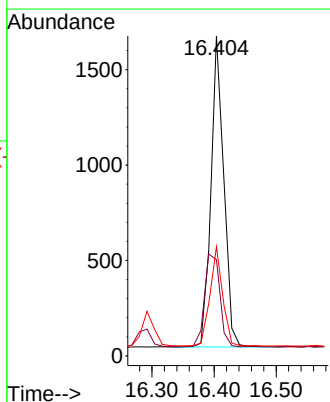
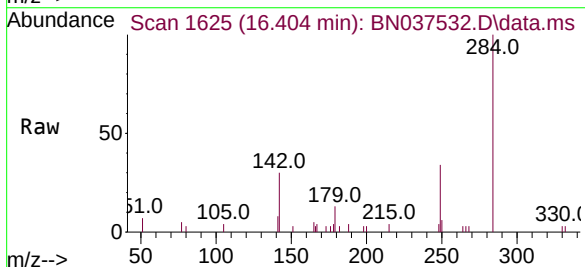
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

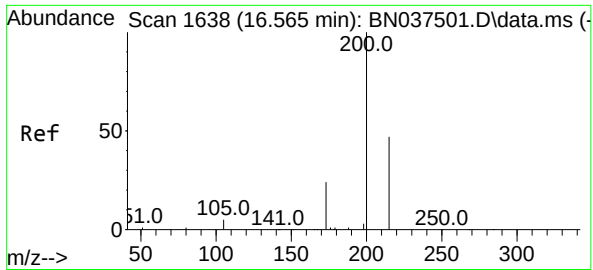
Tgt Ion:248 Resp: 1722
Ion Ratio Lower Upper
248 100
250 94.3 76.2 114.2
141 61.3 63.9 95.9#



#22
Hexachlorobenzene
Concen: 0.402 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:284 Resp: 2345
Ion Ratio Lower Upper
284 100
142 35.7 28.9 43.3
249 31.6 25.8 38.6

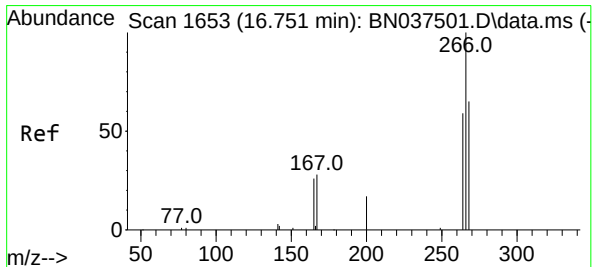
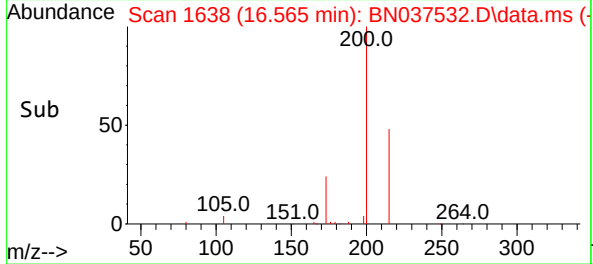
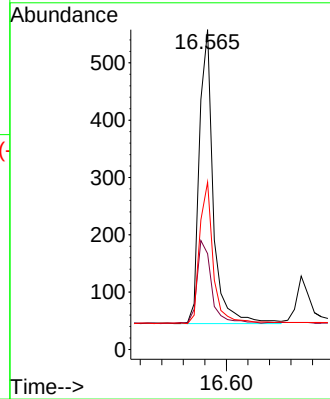
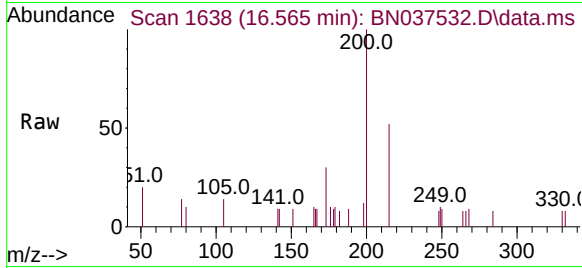




#23
Atrazine
Concen: 0.292 ng
RT: 16.565 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

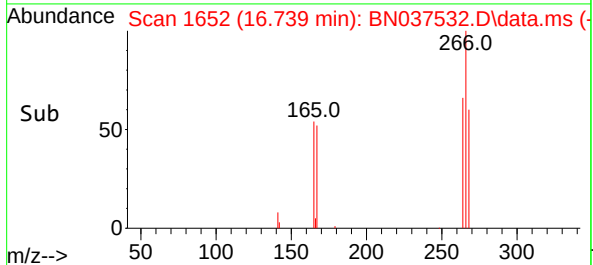
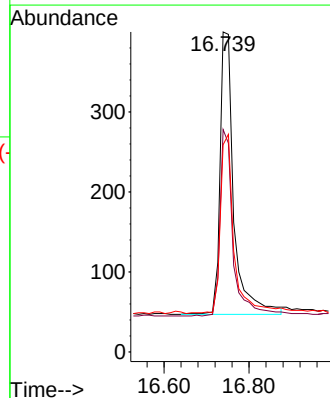
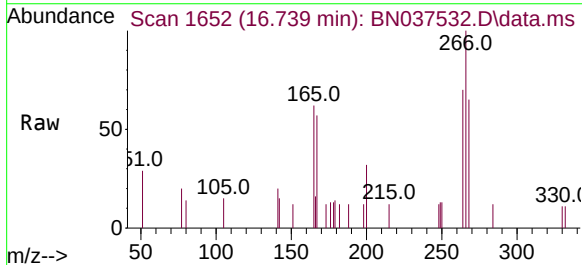
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

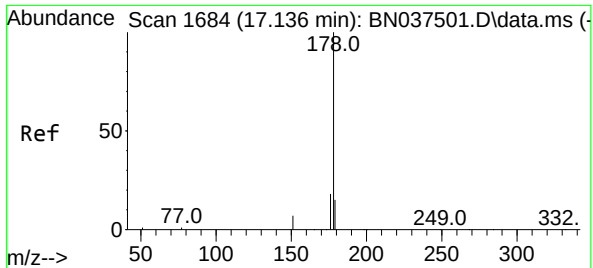
Tgt Ion:	200	Resp:	919
Ion Ratio	Lower	Upper	
200	100		
173	29.9	23.2	34.8
215	52.3	40.2	60.4



#24
Pentachlorophenol
Concen: 0.304 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.013 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:	266	Resp:	796
Ion Ratio	Lower	Upper	
266	100		
264	63.2	49.3	73.9
268	61.9	51.6	77.4

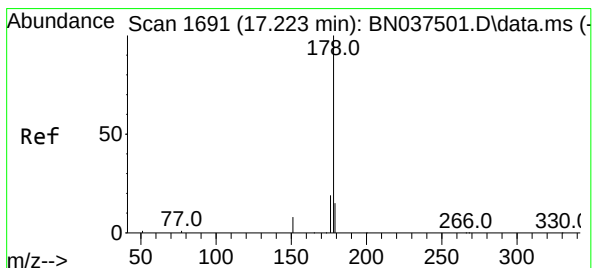
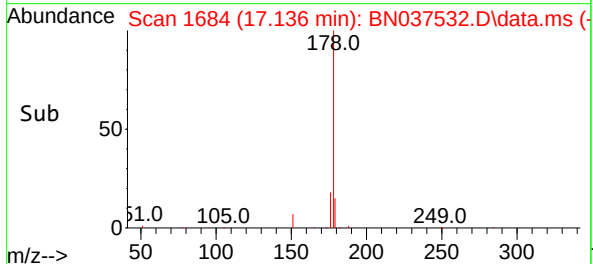
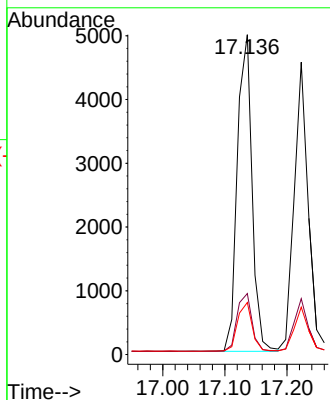
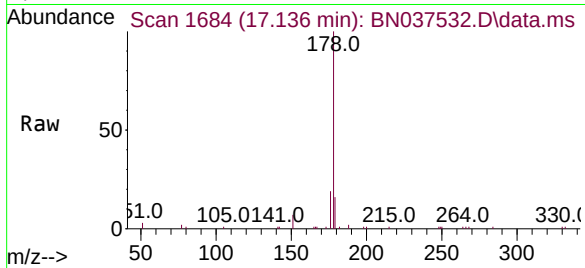




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

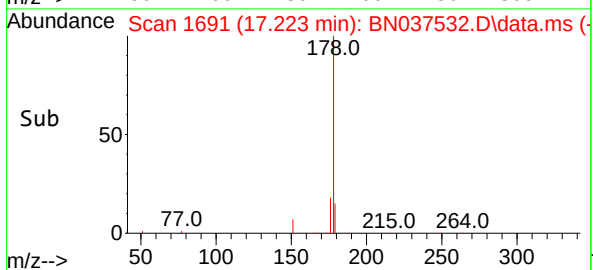
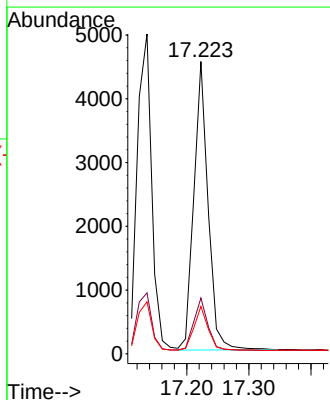
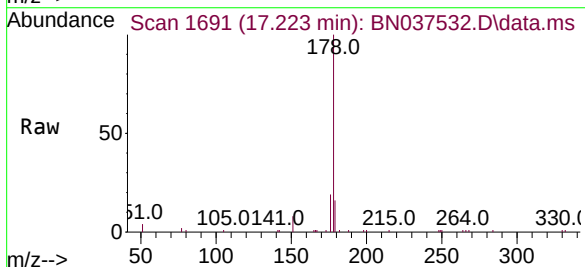
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

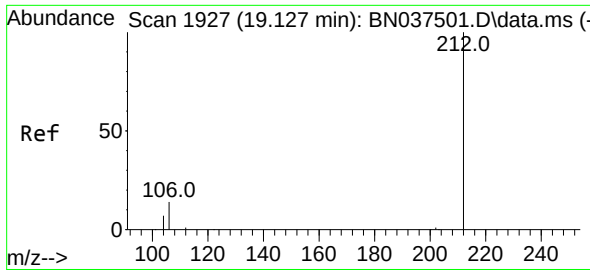
Tgt Ion:178 Resp: 8137
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.3 12.2 18.2



#26
Anthracene
Concen: 0.373 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:178 Resp: 7179
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.3 12.3 18.5

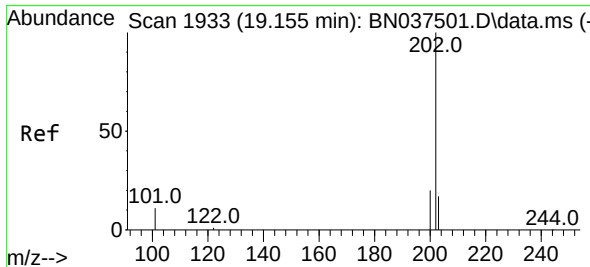
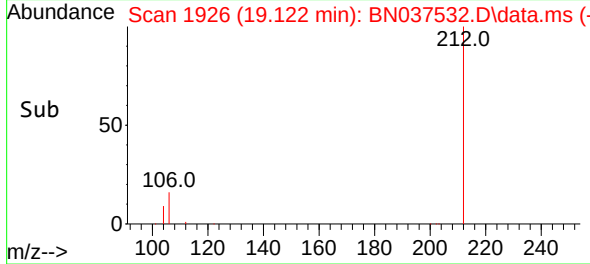
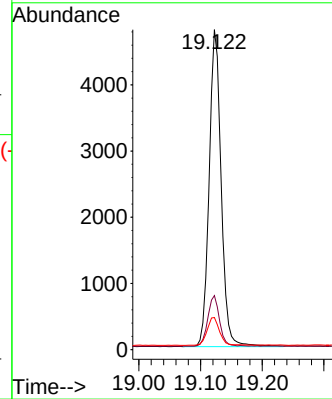
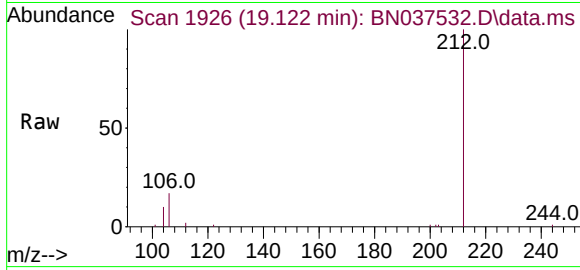




#27
Fluoranthene-d10
Concen: 0.348 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

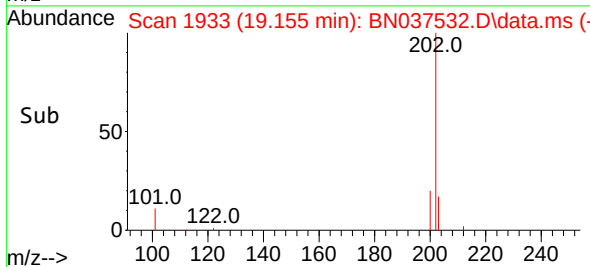
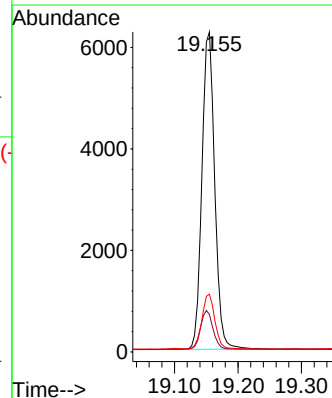
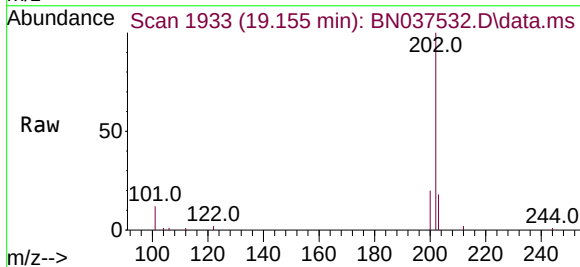
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

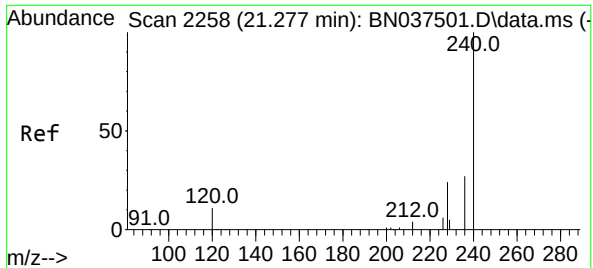
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.4
104	9.4	6.7	10.1



#28
Fluoranthene
Concen: 0.360 ng
RT: 19.155 min Scan# 1933
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.8	14.6
203	17.1	13.6	20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037532.D

Acq: 22 Jul 2025 10:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

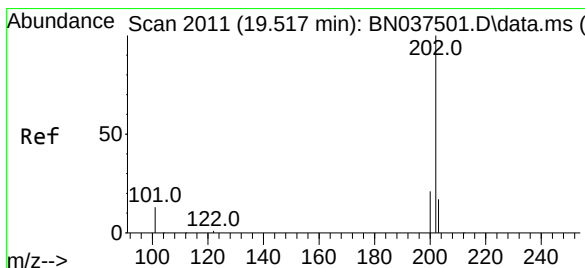
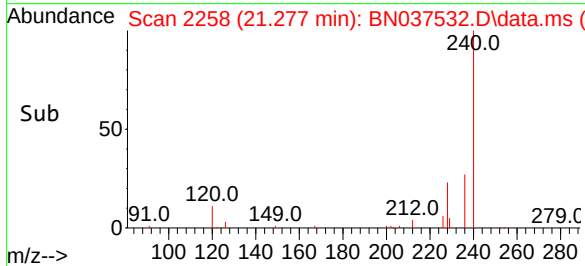
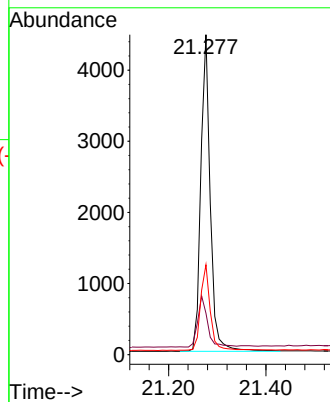
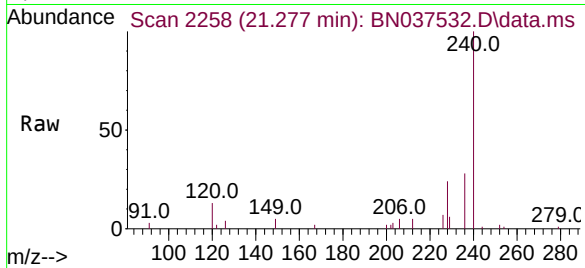
Tgt Ion:240 Resp: 6014

Ion Ratio Lower Upper

240 100

120 12.9 10.7 16.1

236 28.1 22.6 33.8



#30

Pyrene

Concen: 0.360 ng

RT: 19.513 min Scan# 2010

Delta R.T. -0.005 min

Lab File: BN037532.D

Acq: 22 Jul 2025 10:51

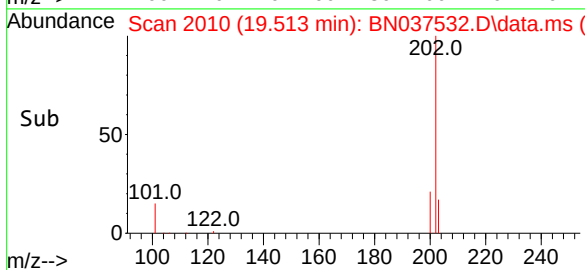
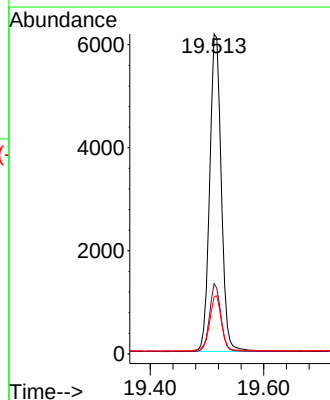
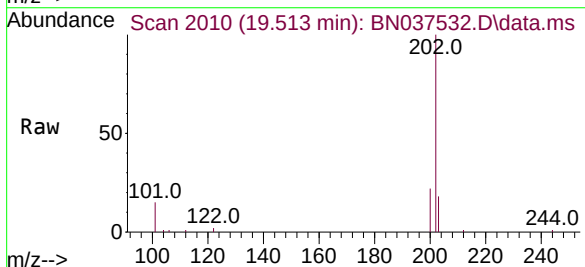
Tgt Ion:202 Resp: 8728

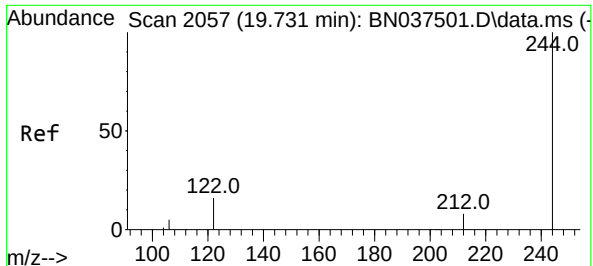
Ion Ratio Lower Upper

202 100

200 20.7 16.5 24.7

203 17.7 14.3 21.5

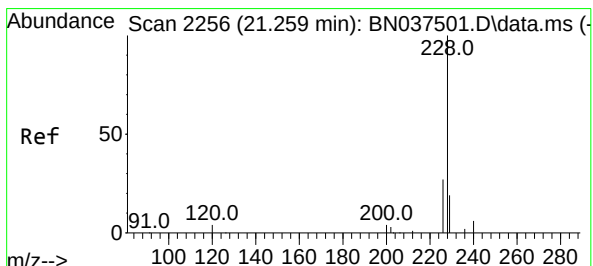
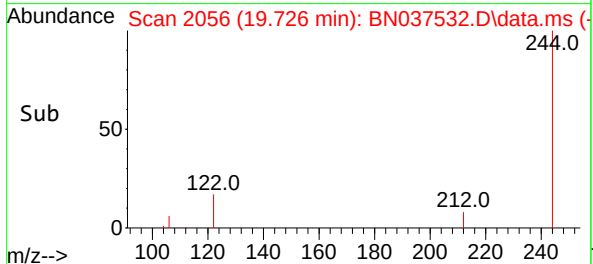
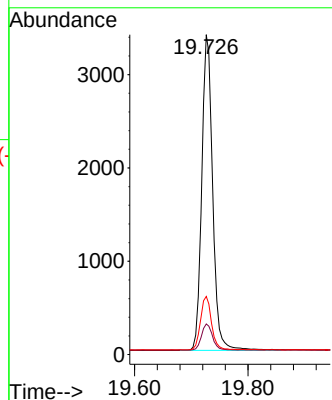
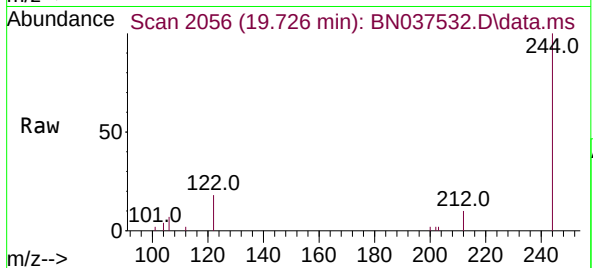




#31
Terphenyl-d14
Concen: 0.349 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

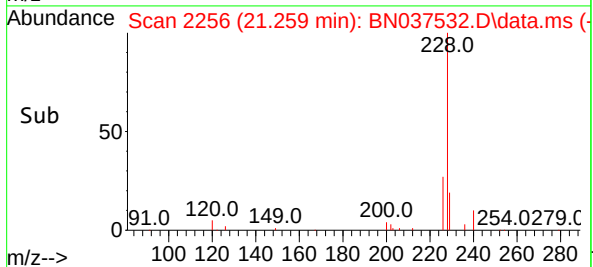
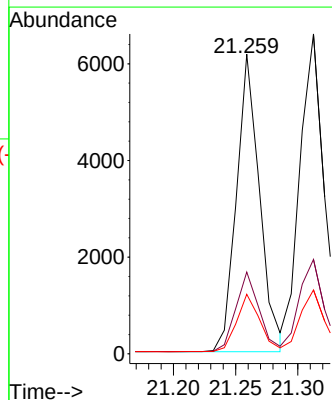
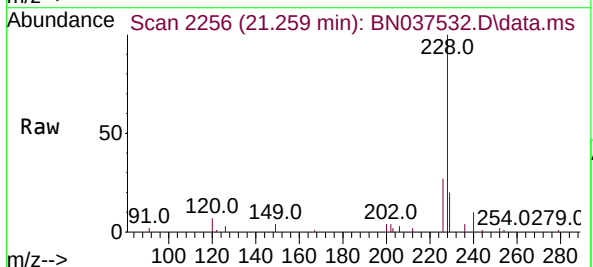
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

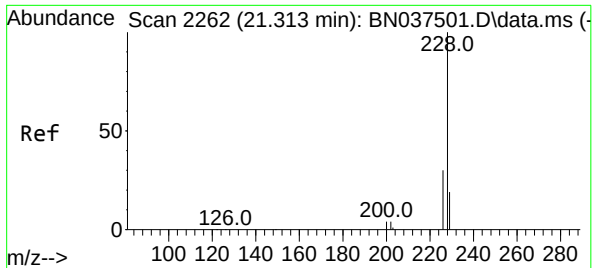
Tgt Ion:244 Resp: 4509
Ion Ratio Lower Upper
244 100
212 9.6 7.4 11.2
122 18.2 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:228 Resp: 7938
Ion Ratio Lower Upper
228 100
226 27.3 21.9 32.9
229 19.9 15.8 23.8

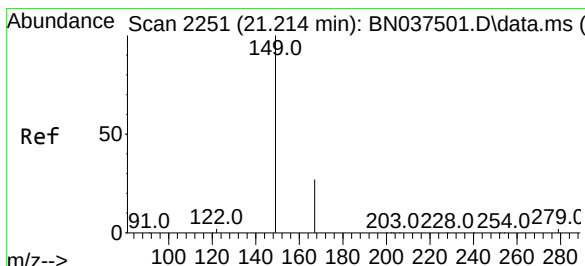
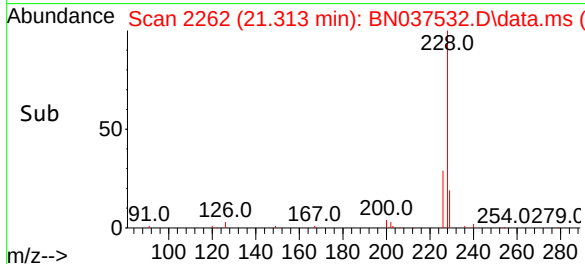
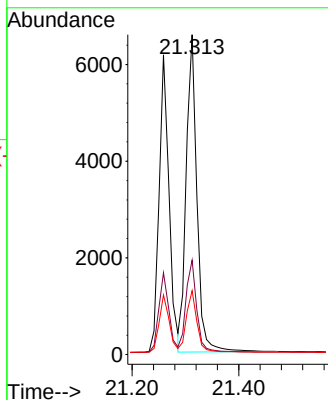
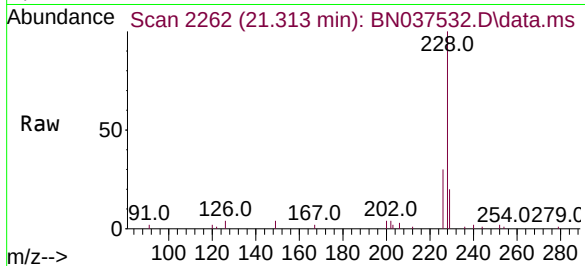




#33
Chrysene
Concen: 0.420 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

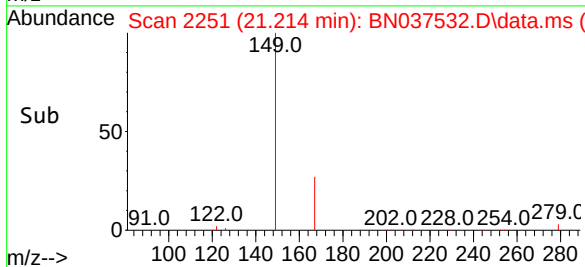
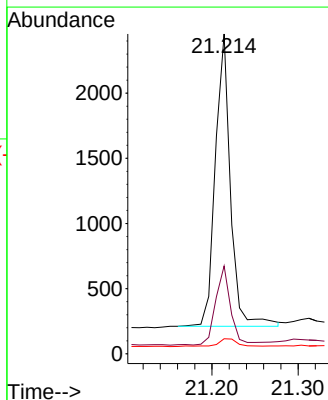
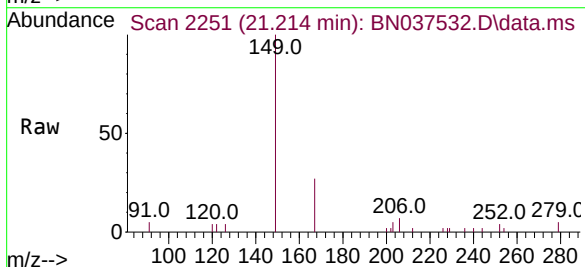
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

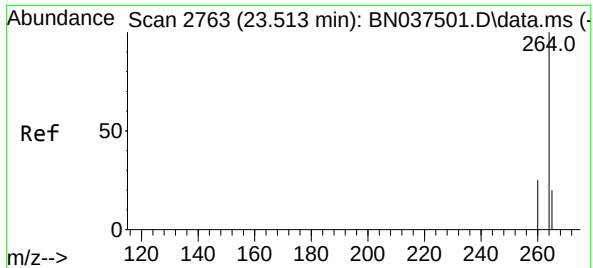
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.2	36.4
229	20.0	16.1	24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.290 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.8	32.8
279	3.3	3.0	4.4

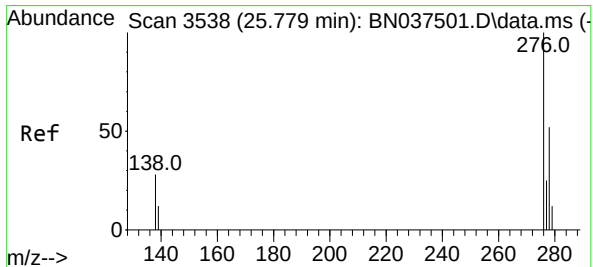
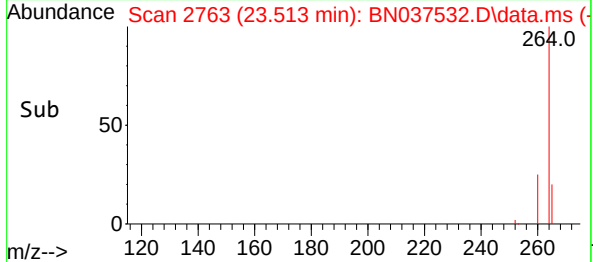
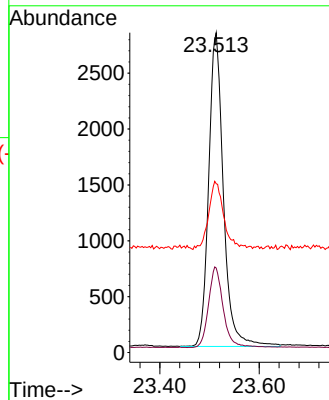
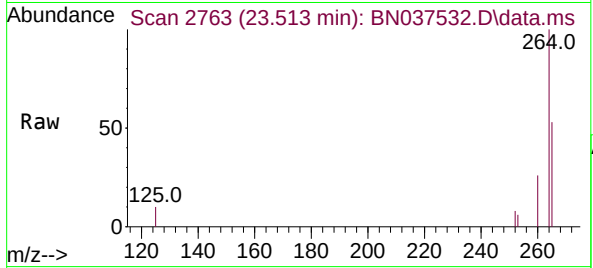




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

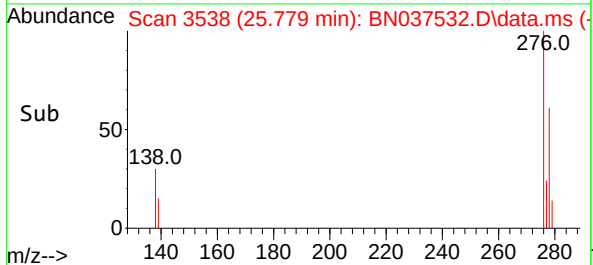
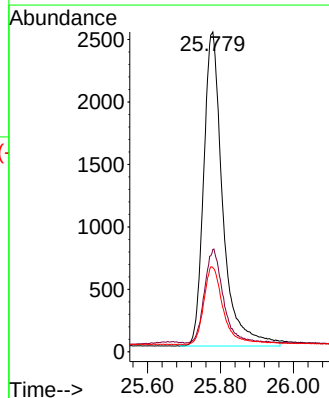
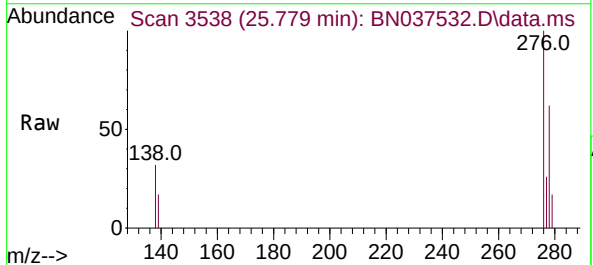
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

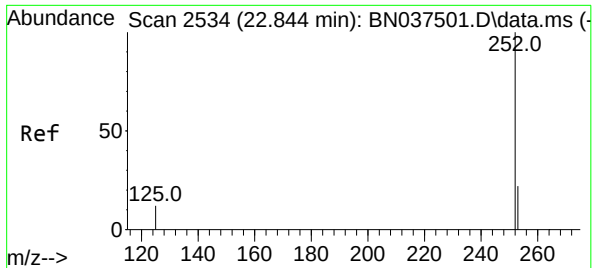
Tgt Ion:	264	Resp:	5778
Ion Ratio	Lower	Upper	
264	100		
260	26.4	21.2	31.8
265	52.8	40.4	60.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.380 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.000 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:	276	Resp:	9143
Ion Ratio	Lower	Upper	
276	100		
138	29.0	24.0	36.0
277	25.1	20.5	30.7

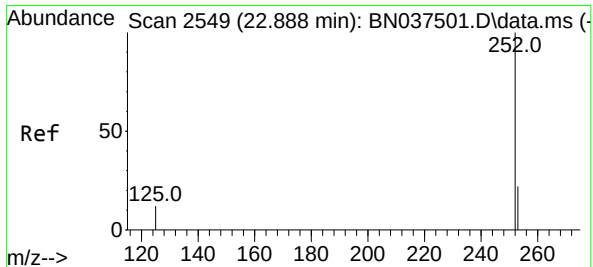
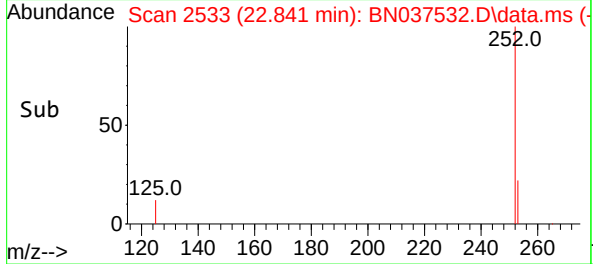
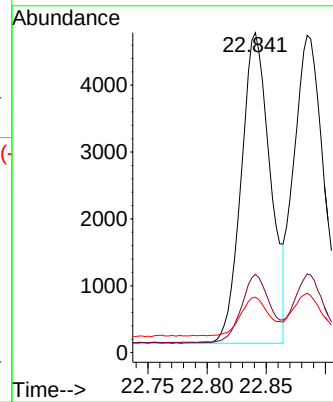
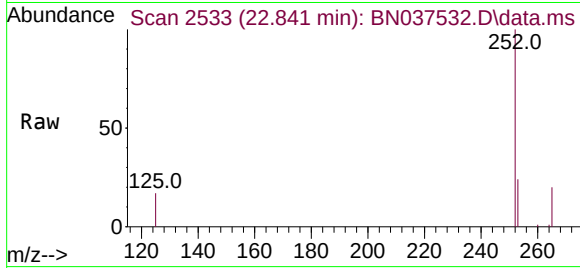




#37
Benzo(b)fluoranthene
Concen: 0.363 ng
RT: 22.841 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

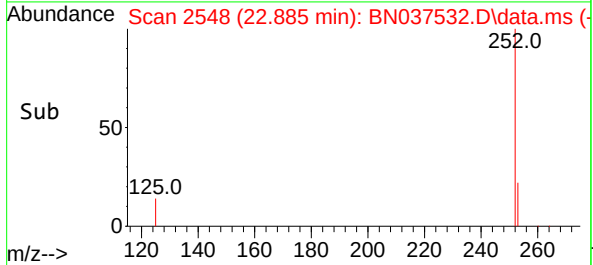
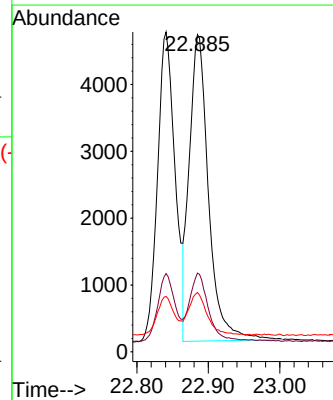
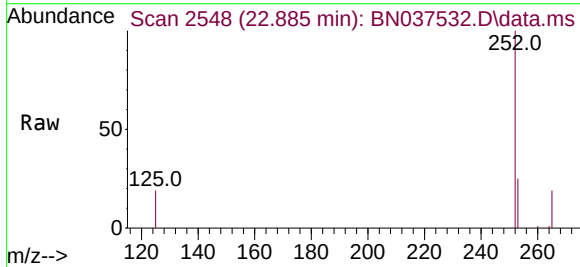
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

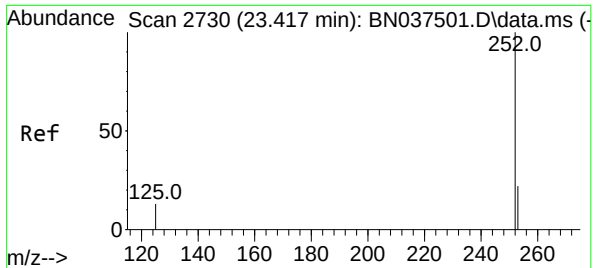
Tgt Ion:	252	Resp:	7956
Ion Ratio	Lower	Upper	
252	100		
253	24.5	19.5	29.3
125	17.3	13.0	19.6



#38
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 22.885 min Scan# 2548
Delta R.T. -0.003 min
Lab File: BN037532.D
Acq: 22 Jul 2025 10:51

Tgt Ion:	252	Resp:	8593
Ion Ratio	Lower	Upper	
252	100		
253	24.8	19.5	29.3
125	18.7	13.1	19.7





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.417 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037532.D

Acq: 22 Jul 2025 10:51

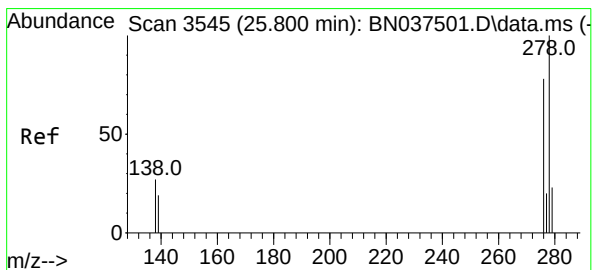
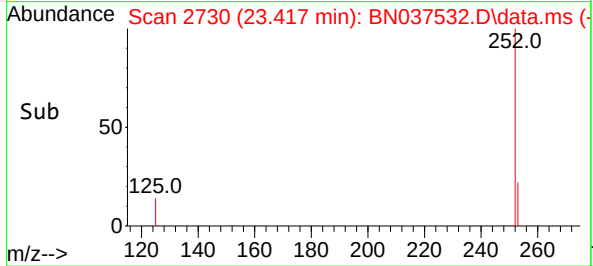
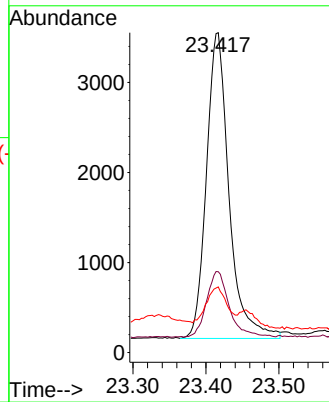
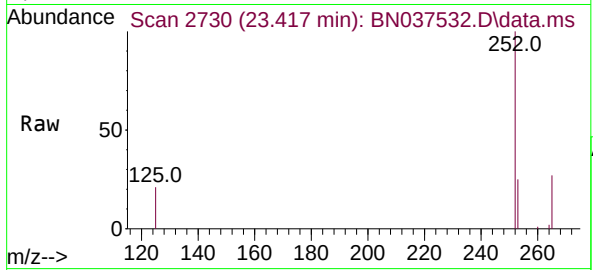
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252	Resp:	7309
Ion Ratio	Lower	Upper
252	100	
253	25.3	19.9 29.9
125	20.5	15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.357 ng

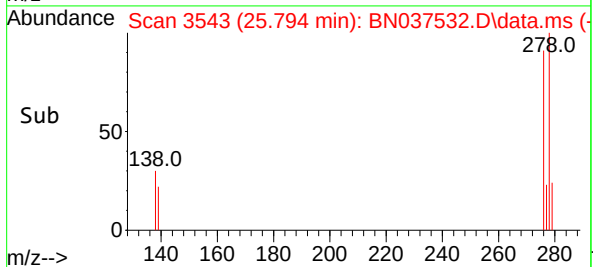
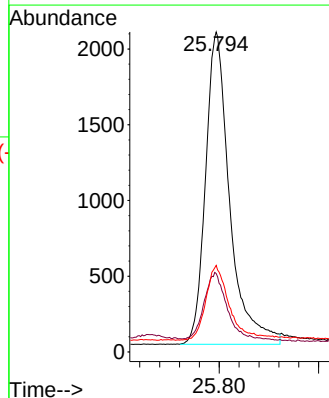
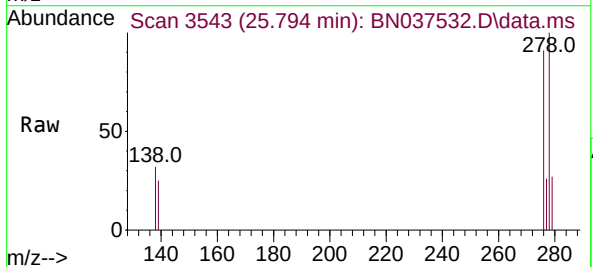
RT: 25.794 min Scan# 3543

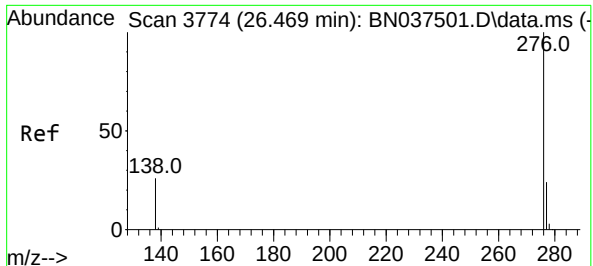
Delta R.T. -0.006 min

Lab File: BN037532.D

Acq: 22 Jul 2025 10:51

Tgt Ion:278	Resp:	6954
Ion Ratio	Lower	Upper
278	100	
139	24.5	17.5 26.3
279	27.0	21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.361 ng

RT: 26.466 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037532.D

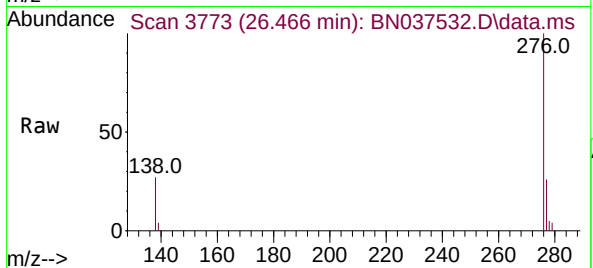
Acq: 22 Jul 2025 10:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



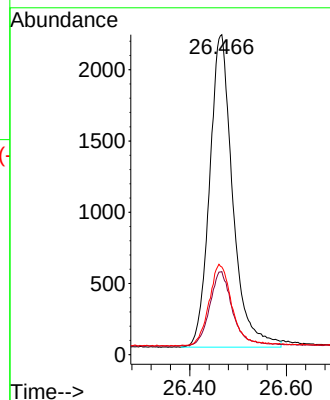
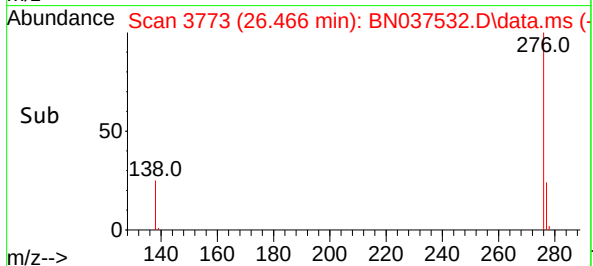
Tgt Ion:276 Resp: 7290

Ion Ratio Lower Upper

276 100

277 25.9 20.9 31.3

138 27.4 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
 Data File : BN037532.D
 Acq On : 22 Jul 2025 10:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 22 11:15:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	120	0.00
2	1,4-Dioxane	0.400	0.429	-7.2	126	0.00
3	n-Nitrosodimethylamine	0.400	0.369	7.8	116	0.00
4 S	2-Fluorophenol	0.400	0.390	2.5	118	0.00
5 S	Phenol-d6	0.400	0.385	3.8	121	0.00
6	bis(2-Chloroethyl)ether	0.400	0.402	-0.5	122	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	123	-0.01
8 S	Nitrobenzene-d5	0.400	0.358	10.5	117	-0.01
9	Naphthalene	0.400	0.388	3.0	122	0.00
10	Hexachlorobutadiene	0.400	0.389	2.8	120	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.366	8.5	120	0.00
12	2-Methylnaphthalene	0.400	0.377	5.8	120	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	114	0.00
14 S	2,4,6-Tribromophenol	0.400	0.297	25.8#	96	-0.01
15 S	2-Fluorobiphenyl	0.400	0.405	-1.3	117	0.00
16	Acenaphthylene	0.400	0.393	1.8	116	0.00
17	Acenaphthene	0.400	0.383	4.3	113	-0.01
18	Fluorene	0.400	0.377	5.8	113	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	109	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.385	3.8	105	0.00
21	4-Bromophenyl-phenylether	0.400	0.382	4.5	109	0.00
22	Hexachlorobenzene	0.400	0.402	-0.5	110	0.00
23	Atrazine	0.400	0.292	27.0#	89	0.00
24	Pentachlorophenol	0.400	0.304	24.0	98	-0.01
25	Phenanthrene	0.400	0.386	3.5	108	0.00
26	Anthracene	0.400	0.373	6.8	109	0.00
27 SURR	Fluoranthene-d10	0.400	0.348	13.0	104	0.00
28	Fluoranthene	0.400	0.360	10.0	105	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	115	0.00
30	Pyrene	0.400	0.360	10.0	104	0.00
31 S	Terphenyl-d14	0.400	0.349	12.8	103	0.00
32	Benzo(a)anthracene	0.400	0.377	5.8	114	0.00
33	Chrysene	0.400	0.420	-5.0	123	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.290	27.5#	93	0.00
35 I	Perylene-d12	0.400	0.400	0.0	120	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.380	5.0	126	0.00
37	Benzo(b)fluoranthene	0.400	0.363	9.3	114	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	120	0.00
39 C	Benzo(a)pyrene	0.400	0.399	0.3	128	0.00
40	Dibenzo(a,h)anthracene	0.400	0.357	10.8	119	0.00
41	Benzo(g,h,i)perylene	0.400	0.361	9.8	116	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
 Data File : BN037532.D
 Acq On : 22 Jul 2025 10:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 22 11:15:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
2	1,4-Dioxane	0.385	0.413	-7.3	126	0.00
3	n-Nitrosodimethylamine	0.484	0.446	7.9	116	0.00
4 S	2-Fluorophenol	0.989	0.964	2.5	118	0.00
5 S	Phenol-d6	1.241	1.193	3.9	121	0.00
6	bis(2-Chloroethyl)ether	1.033	1.039	-0.6	122	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	123	-0.01
8 S	Nitrobenzene-d5	0.299	0.268	10.4	117	-0.01
9	Naphthalene	1.067	1.035	3.0	122	0.00
10	Hexachlorobutadiene	0.236	0.229	3.0	120	-0.01
11 SURR	2-Methylnaphthalene-d10	0.574	0.525	8.5	120	0.00
12	2-Methylnaphthalene	0.701	0.661	5.7	120	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
14 S	2,4,6-Tribromophenol	0.197	0.146	25.9#	96	-0.01
15 S	2-Fluorobiphenyl	2.080	2.108	-1.3	117	0.00
16	Acenaphthylene	1.792	1.759	1.8	116	0.00
17	Acenaphthene	1.218	1.166	4.3	113	-0.01
18	Fluorene	1.569	1.477	5.9	113	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	109	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.040	29.8#	105	0.00
21	4-Bromophenyl-phenylether	0.256	0.244	4.7	109	0.00
22	Hexachlorobenzene	0.331	0.333	-0.6	110	0.00
23	Atrazine	0.179	0.130	27.4#	89	0.00
24	Pentachlorophenol	0.149	0.113	24.2	98	-0.01
25	Phenanthrene	1.198	1.155	3.6	108	0.00
26	Anthracene	1.093	1.019	6.8	109	0.00
27 SURR	Fluoranthene-d10	1.060	0.922	13.0	104	0.00
28	Fluoranthene	1.382	1.245	9.9	105	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	115	0.00
30	Pyrene	1.612	1.451	10.0	104	0.00
31 S	Terphenyl-d14	0.859	0.750	12.7	103	0.00
32	Benzo(a)anthracene	1.401	1.320	5.8	114	0.00
33	Chrysene	1.459	1.530	-4.9	123	0.00
34	Bis(2-ethylhexyl)phthalate	0.630	0.456	27.6#	93	0.00
35 I	Perylene-d12	1.000	1.000	0.0	120	0.00
36	Indeno(1,2,3-cd)pyrene	1.666	1.582	5.0	126	0.00
37	Benzo(b)fluoranthene	1.518	1.377	9.3	114	0.00
38	Benzo(k)fluoranthene	1.567	1.487	5.1	120	0.00
39 C	Benzo(a)pyrene	1.267	1.265	0.2	128	0.00
40	Dibenzo(a,h)anthracene	1.349	1.204	10.7	119	0.00
41	Benzo(g,h,i)perylene	1.397	1.262	9.7	116	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.: Q2643
 Instrument ID: BNA_N Calibration Date/Time: 07/22/2025 19:17
 Lab File ID: BN037546.D Init. Calib. Date(s): 07/15/2025 07/15/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:36 16:14
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.574	0.516		-10.1	50.0
Fluoranthene-d10	1.060	0.959		-9.5	50.0
2-Fluorophenol	0.989	0.861		-12.9	50.0
Phenol-d6	1.241	1.033		-16.8	50.0
Nitrobenzene-d5	0.299	0.280		-6.4	50.0
2-Fluorobiphenyl	2.080	2.268		9.0	50.0
2,4,6-Tribromophenol	0.197	0.151		-23.4	50.0
Terphenyl-d14	0.859	0.825		-4.0	50.0
1,4-Dioxane	0.385	0.403		4.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
 Data File : BN037546.D
 Acq On : 22 Jul 2025 19:17
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jul 23 04:24:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

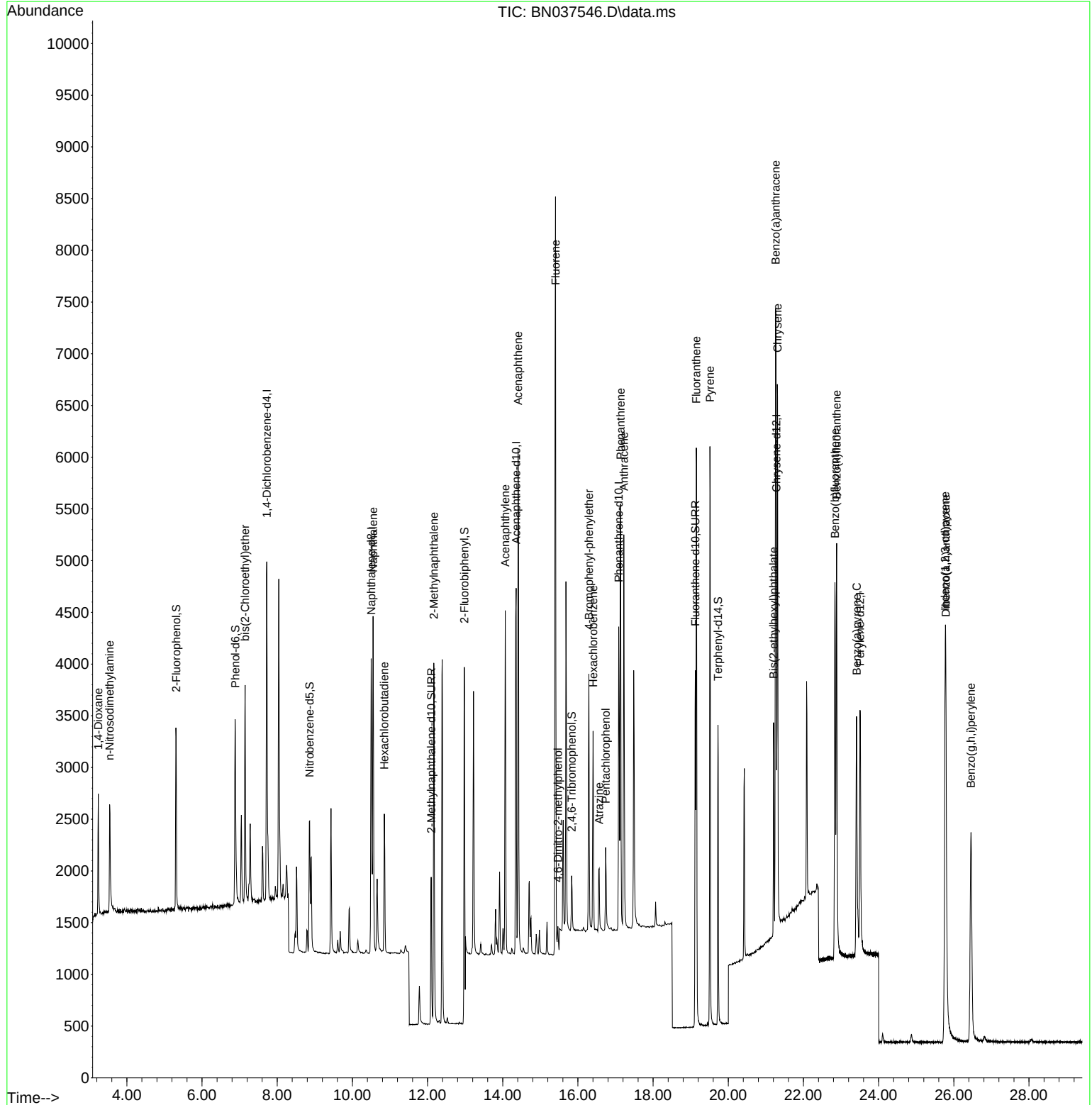
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1676	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4081	0.400	ng	#-0.01
13) Acenaphthene-d10	14.355	164	2127	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4107	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3447	0.400	ng	0.00
35) Perylene-d12	23.504	264	3274	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1443	0.348	ng	0.00
5) Phenol-d6	6.886	99	1731	0.333	ng	0.00
8) Nitrobenzene-d5	8.864	82	1141	0.374	ng	0.00
11) 2-Methylnaphthalene-d10	12.095	152	2105	0.360	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	322	0.308	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4825	0.436	ng	0.00
27) Fluoranthene-d10	19.122	212	3937	0.362	ng	0.00
31) Terphenyl-d14	19.726	244	2844	0.384	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	676	0.420	ng	Qvalue 96
3) n-Nitrosodimethylamine	3.543	42	875	0.432	ng	# 80
6) bis(2-Chloroethyl)ether	7.146	93	1567	0.362	ng	98
9) Naphthalene	10.551	128	4201	0.386	ng	99
10) Hexachlorobutadiene	10.850	225	1101	0.458	ng	# 99
12) 2-Methylnaphthalene	12.166	142	2615	0.365	ng	96
16) Acenaphthylene	14.067	152	3609	0.379	ng	99
17) Acenaphthene	14.409	154	2497	0.385	ng	97
18) Fluorene	15.403	166	3214	0.385	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	172	0.399	ng	91
21) 4-Bromophenyl-phenylether	16.292	248	995	0.378	ng	93
22) Hexachlorobenzene	16.404	284	1436	0.422	ng	98
23) Atrazine	16.565	200	630	0.343	ng	93
24) Pentachlorophenol	16.739	266	439	0.288	ng	99
25) Phenanthrene	17.136	178	4815	0.391	ng	99
26) Anthracene	17.223	178	4132	0.368	ng	100
28) Fluoranthene	19.150	202	5257	0.371	ng	98
30) Pyrene	19.512	202	5168	0.372	ng	99
32) Benzo(a)anthracene	21.259	228	4434	0.367	ng	99
33) Chrysene	21.312	228	5071	0.403	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	2039	0.375	ng	97
36) Indeno(1,2,3-cd)pyrene	25.770	276	5336	0.391	ng	98
37) Benzo(b)fluoranthene	22.838	252	4623	0.372	ng	99
38) Benzo(k)fluoranthene	22.882	252	5250	0.409	ng	98
39) Benzo(a)pyrene	23.414	252	3741	0.361	ng	96
40) Dibenzo(a,h)anthracene	25.788	278	4242	0.384	ng	97
41) Benzo(g,h,i)perylene	26.457	276	4357	0.381	ng	97

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

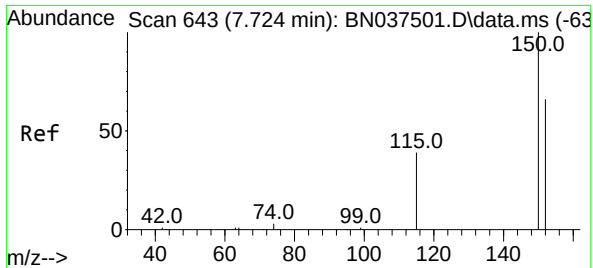
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037546.D
Acq On : 22 Jul 2025 19:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jul 23 04:24:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration



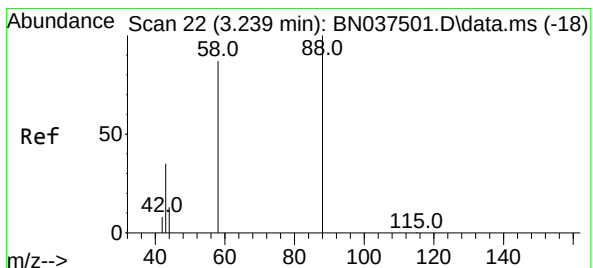
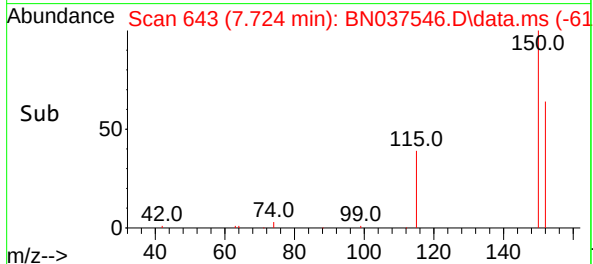
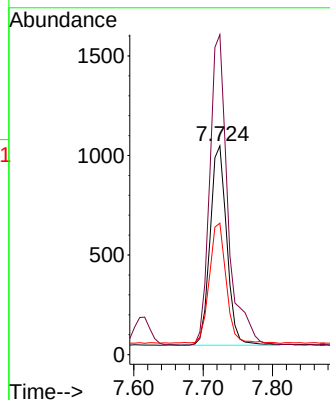
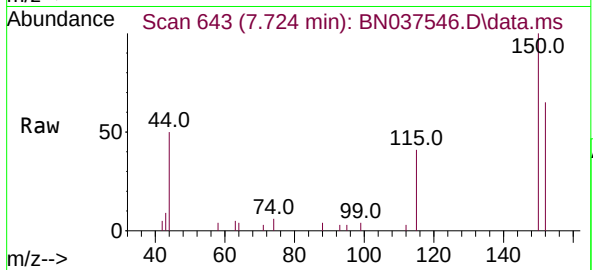
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

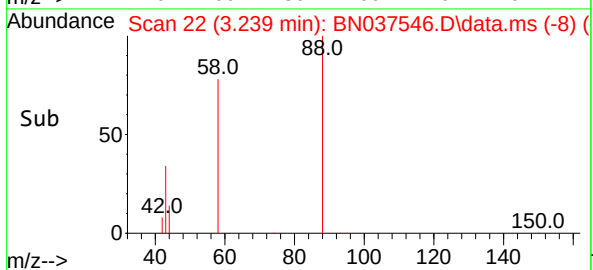
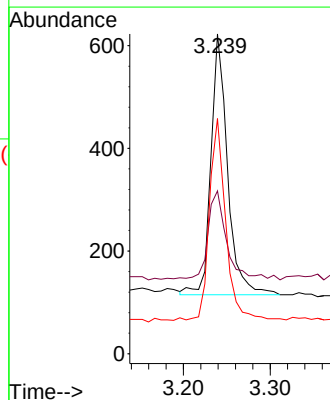
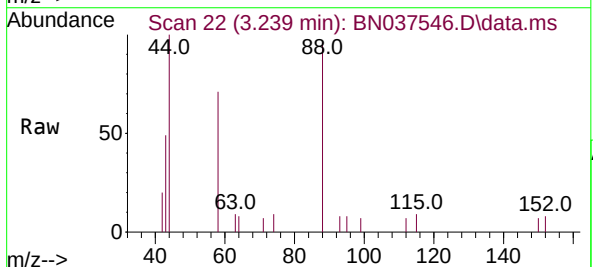
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

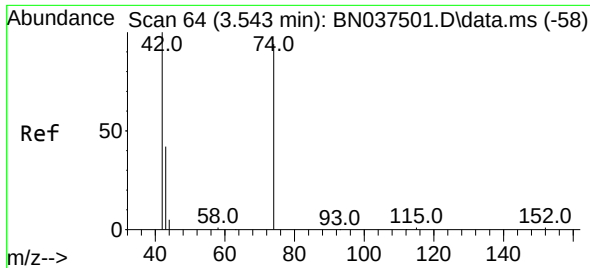
Tgt Ion:152 Resp: 1676
Ion Ratio Lower Upper
152 100
150 153.3 119.8 179.8
115 63.0 49.1 73.7



#2
1,4-Dioxane
Concen: 0.420 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion: 88 Resp: 676
Ion Ratio Lower Upper
88 100
43 39.1 27.5 41.3
58 75.9 62.7 94.1

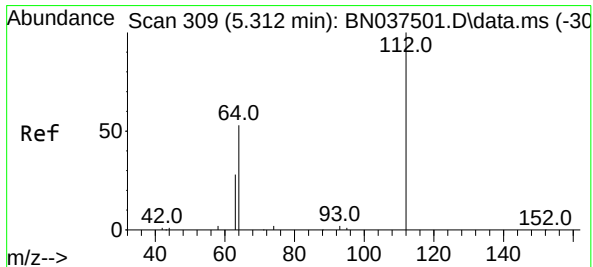
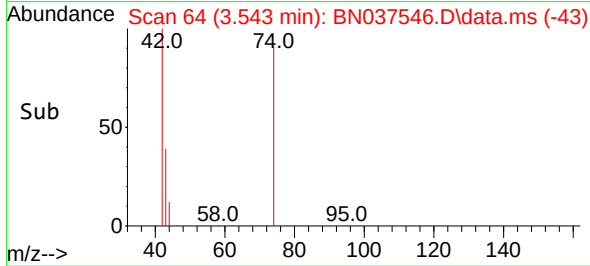
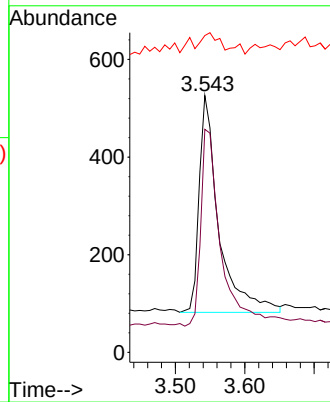
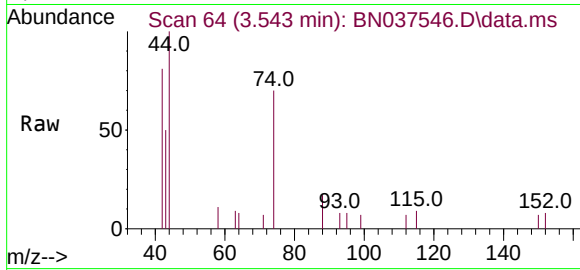




#3
n-Nitrosodimethylamine
Concen: 0.432 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

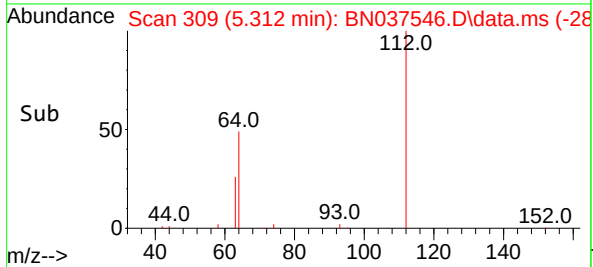
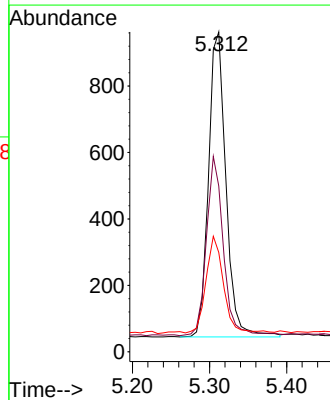
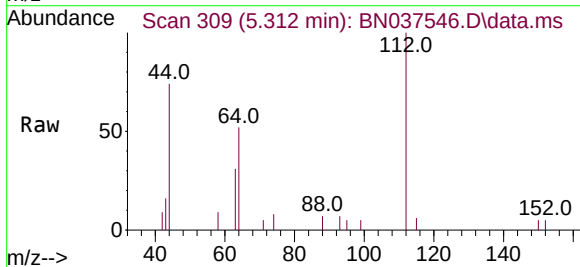
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

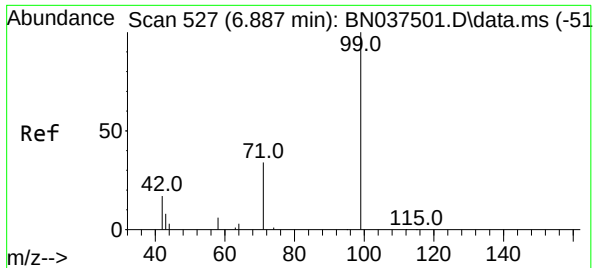
Tgt Ion: 42 Resp: 875
Ion Ratio Lower Upper
42 100
74 94.5 91.8 137.6
44 6.4 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.348 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion: 112 Resp: 1443
Ion Ratio Lower Upper
112 100
64 57.1 45.1 67.7
63 31.9 23.8 35.8

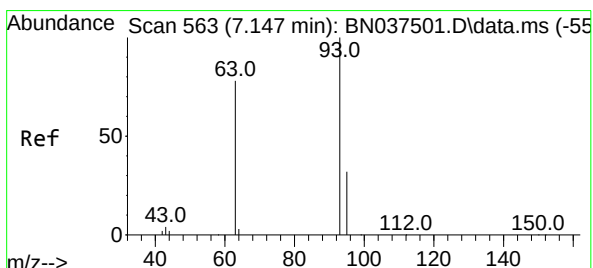
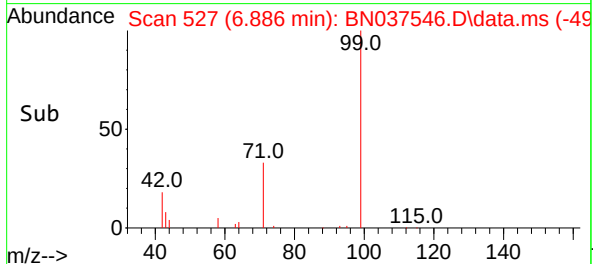
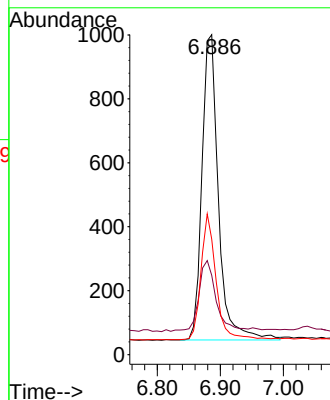
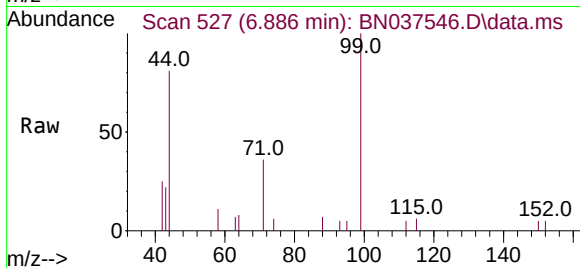




#5
Phenol-d6
Concen: 0.333 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

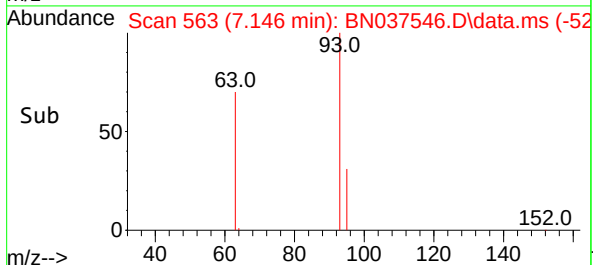
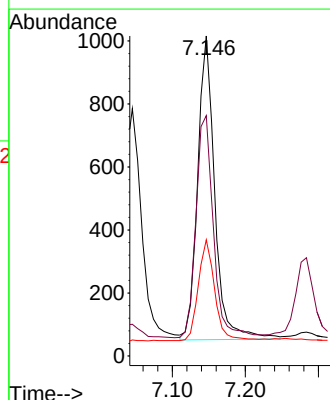
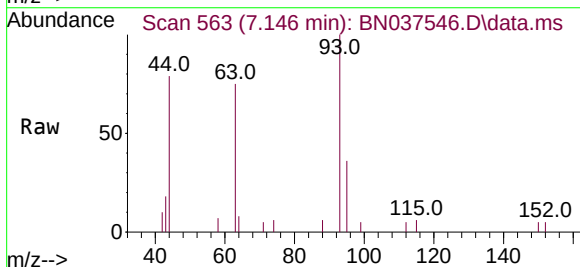
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

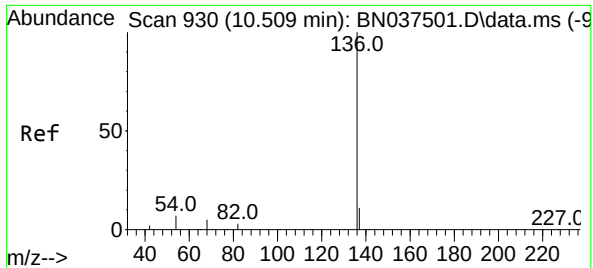
Tgt Ion:	99	Resp:	1731
Ion	Ratio	Lower	Upper
99	100		
42	24.8	17.1	25.7
71	38.2	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.362 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:	93	Resp:	1567
Ion	Ratio	Lower	Upper
93	100		
63	74.9	58.2	87.4
95	31.7	25.3	37.9

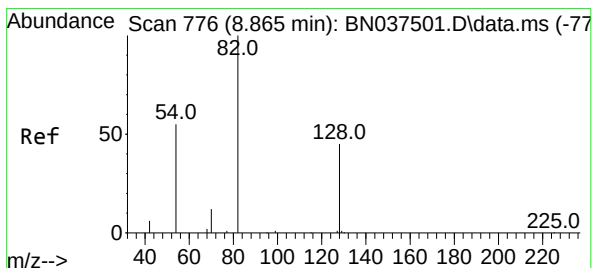
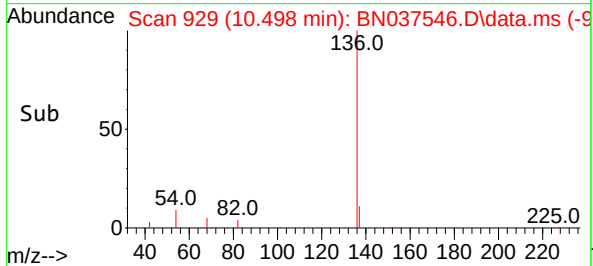
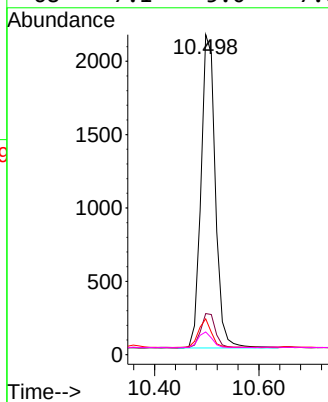
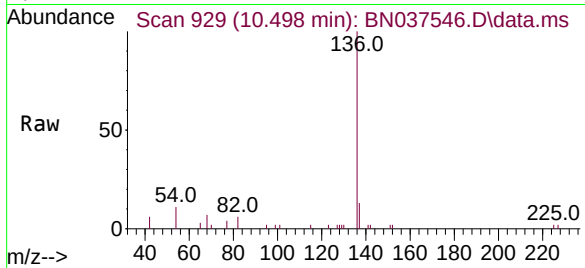




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

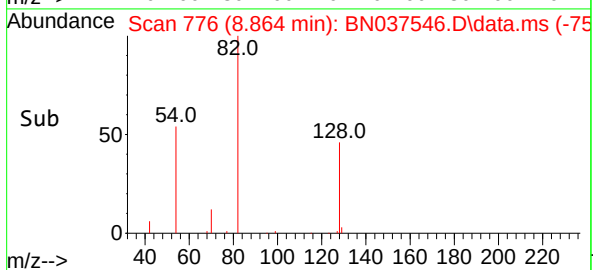
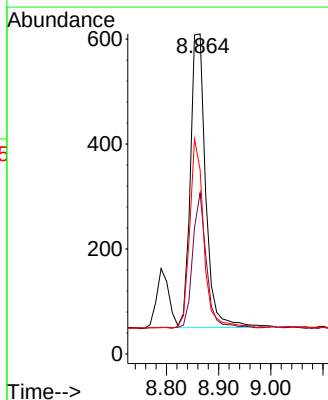
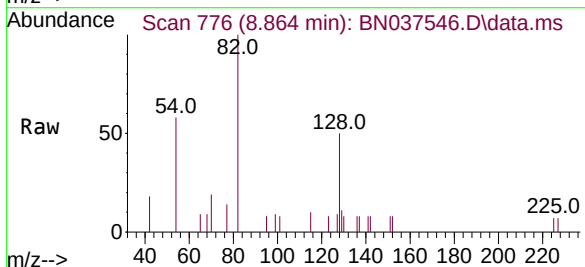
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

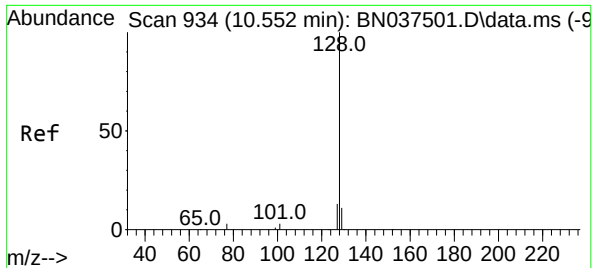
Tgt Ion:	136	Resp:	4081
Ion	Ratio	Lower	Upper
136	100		
137	12.8	9.8	14.8
54	11.2	6.6	9.8#
68	7.1	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.374 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:	82	Resp:	1141
Ion	Ratio	Lower	Upper
82	100		
128	50.3	37.5	56.3
54	57.5	45.3	67.9

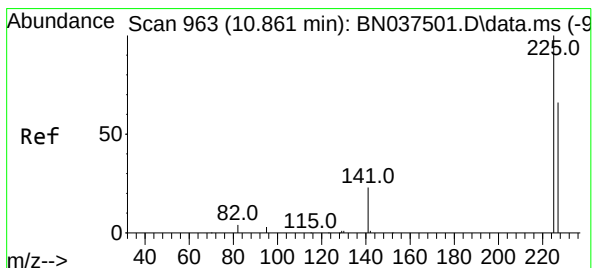
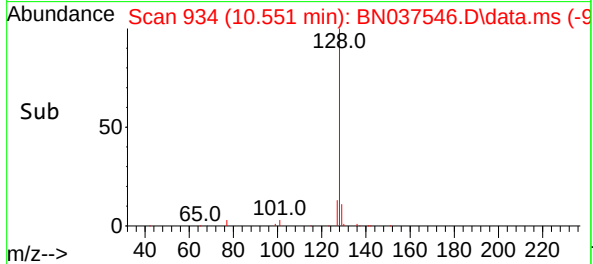
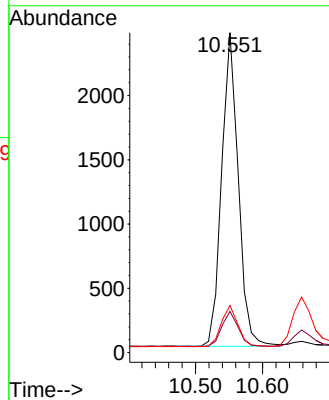
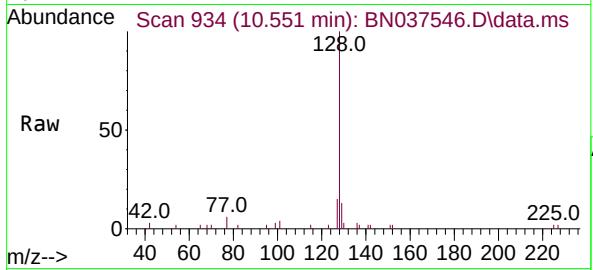




#9
Naphthalene
Concen: 0.386 ng
RT: 10.551 min Scan# 934
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

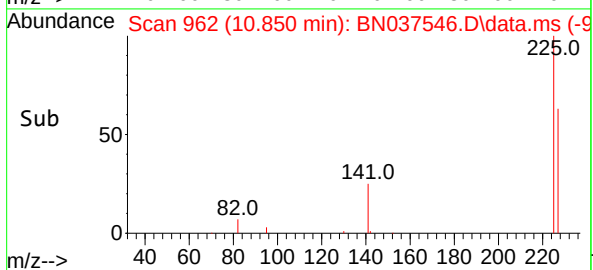
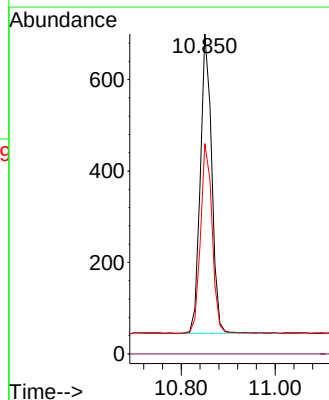
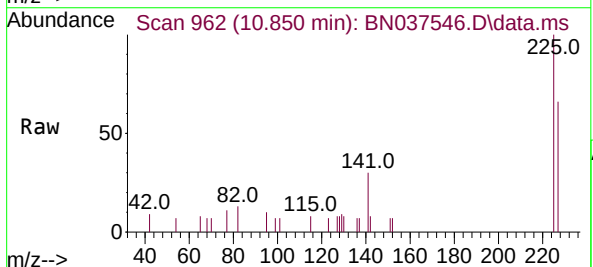
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

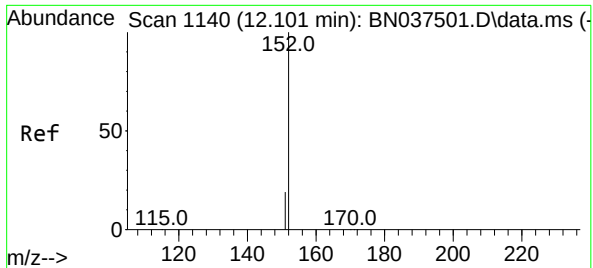
Tgt Ion:	128	Resp:	4201
Ion	Ratio	Lower	Upper
128	100		
129	12.9	9.7	14.5
127	14.7	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.458 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:	225	Resp:	1101
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.0	76.4

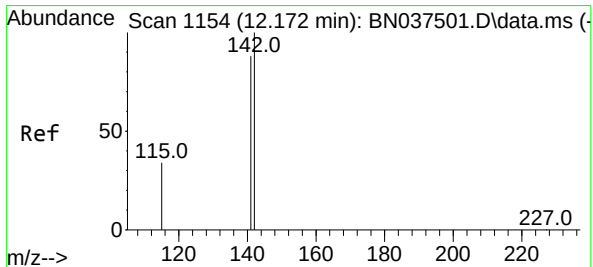
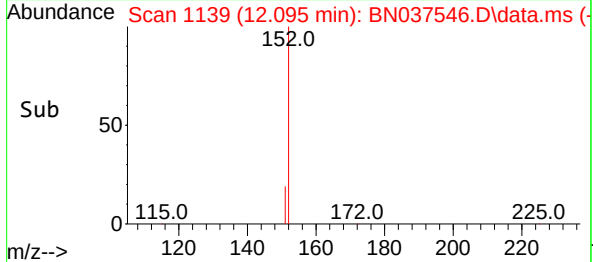
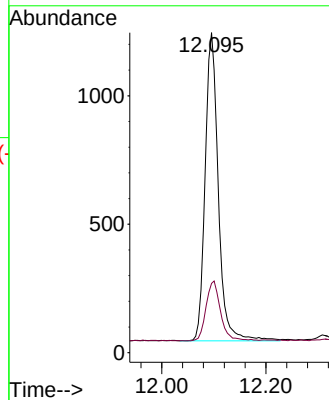
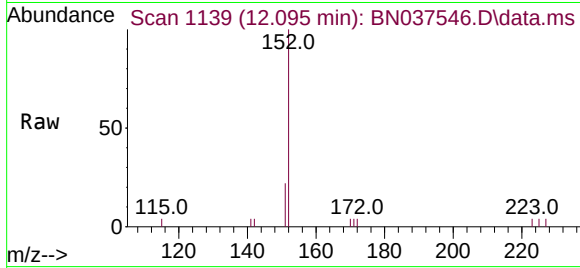




#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.095 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

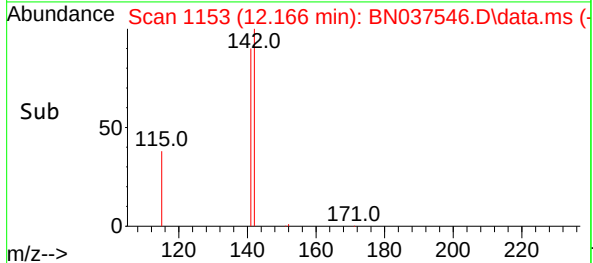
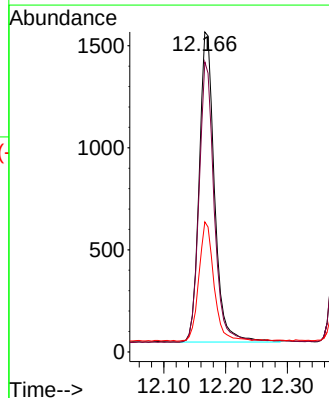
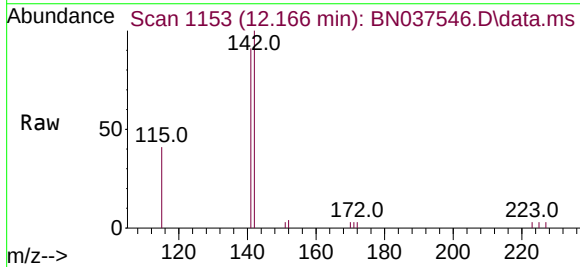
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

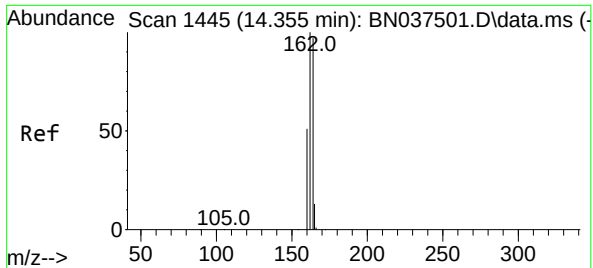
Tgt Ion:152 Resp: 2105
Ion Ratio Lower Upper
152 100
151 21.6 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.365 ng
RT: 12.166 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:142 Resp: 2615
Ion Ratio Lower Upper
142 100
141 90.6 71.0 106.4
115 40.6 29.0 43.4

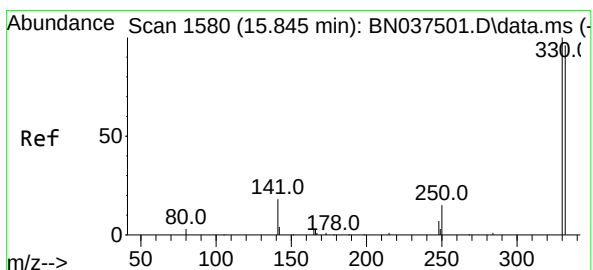
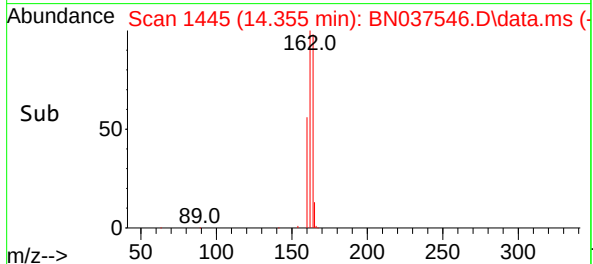
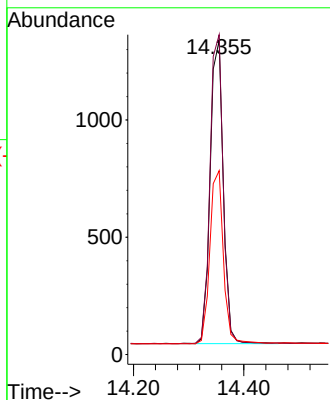
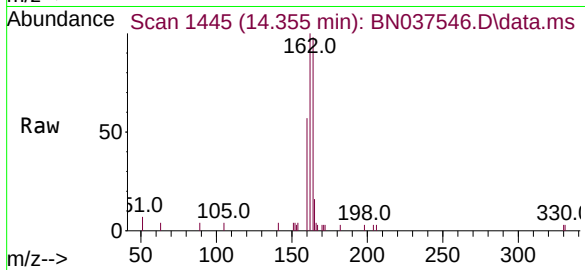




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

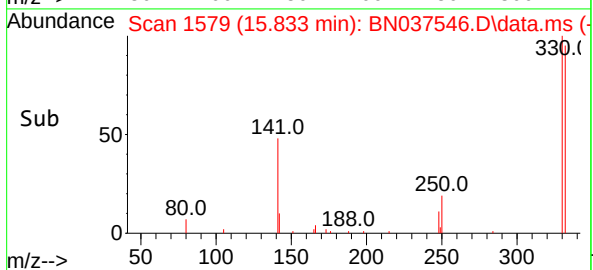
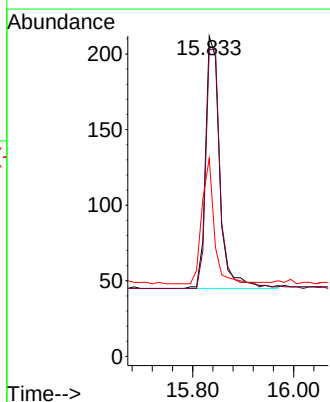
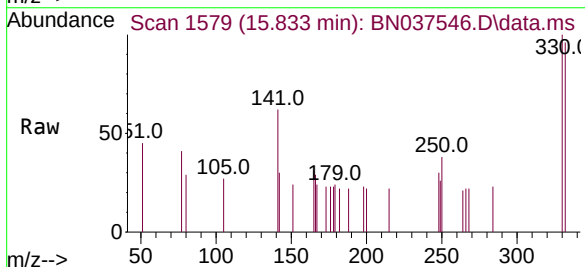
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

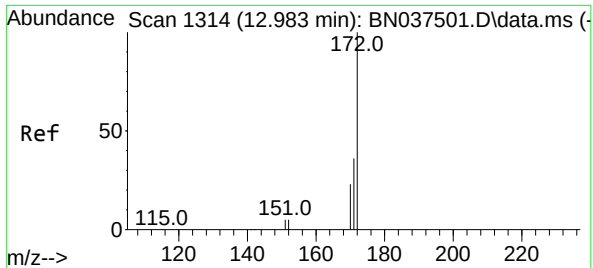
Tgt Ion:164 Resp: 2127
Ion Ratio Lower Upper
164 100
162 101.9 82.0 123.0
160 58.6 42.4 63.6



#14
2,4,6-Tribromophenol
Concen: 0.308 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.013 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:330 Resp: 322
Ion Ratio Lower Upper
330 100
332 97.8 76.1 114.1
141 44.1 33.4 50.0

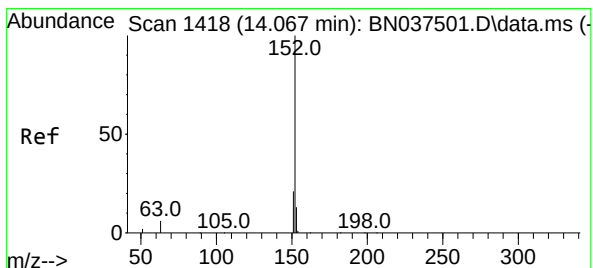
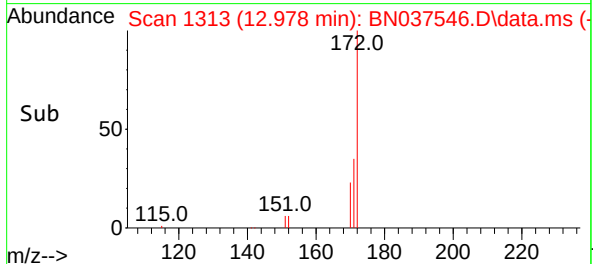
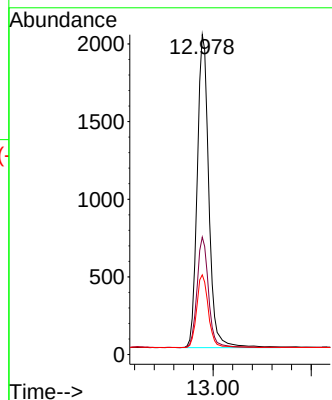
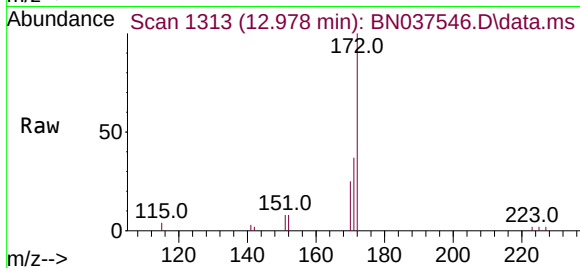




#15
2-Fluorobiphenyl
Concen: 0.436 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

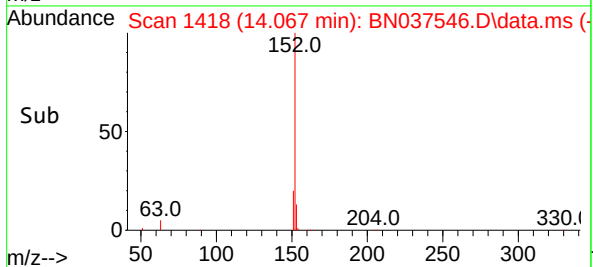
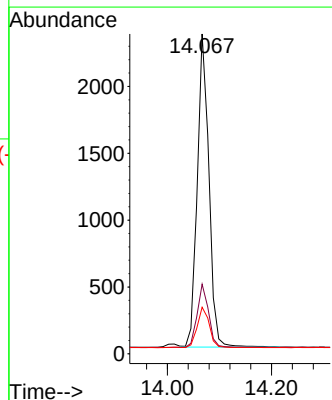
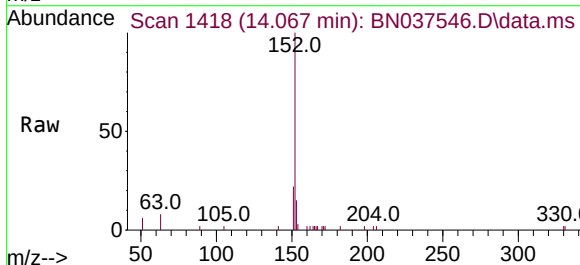
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

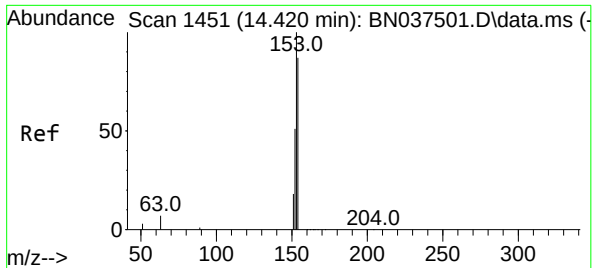
Tgt Ion:	172	Resp:	4825
Ion Ratio	Lower	Upper	
172	100		
171	36.7	29.4	44.2
170	24.9	19.4	29.0



#16
Acenaphthylene
Concen: 0.379 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:	152	Resp:	3609
Ion Ratio	Lower	Upper	
152	100		
151	20.3	15.9	23.9
153	13.6	10.7	16.1

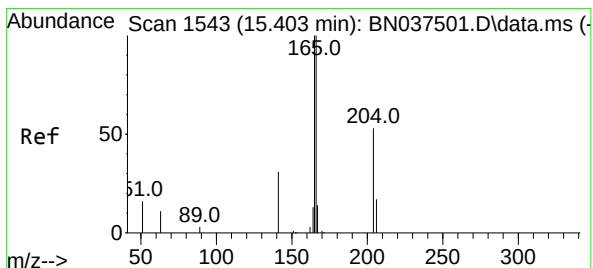
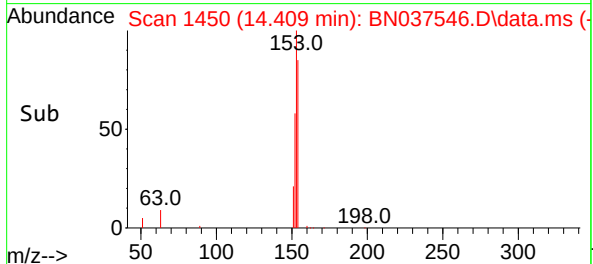
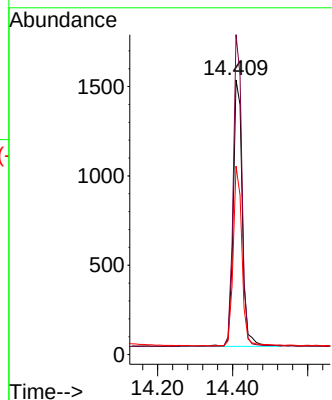
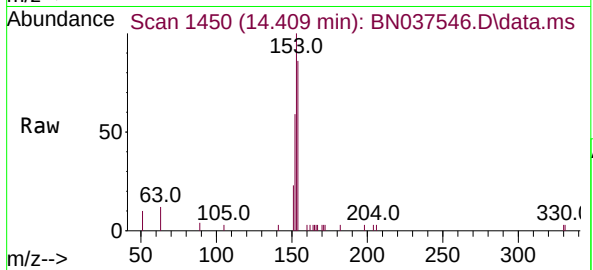




#17
Acenaphthene
Concen: 0.385 ng
RT: 14.409 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

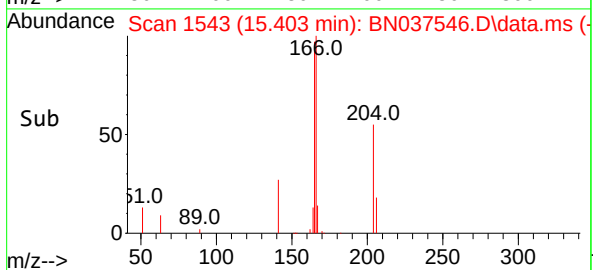
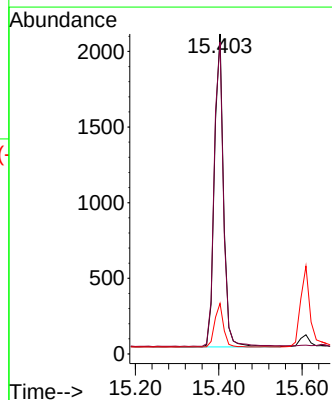
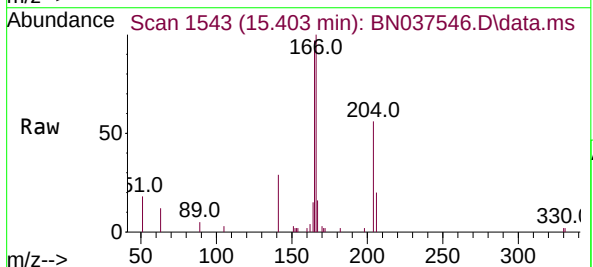
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

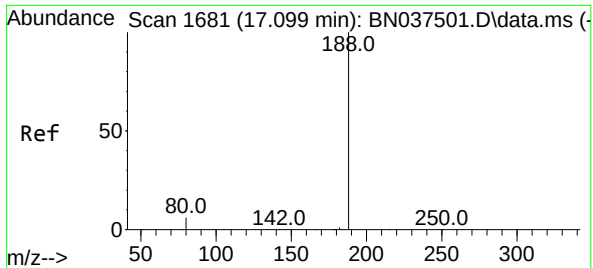
Tgt Ion:154 Resp: 2497
Ion Ratio Lower Upper
154 100
153 111.2 89.2 133.8
152 65.0 48.0 72.0



#18
Fluorene
Concen: 0.385 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:166 Resp: 3214
Ion Ratio Lower Upper
166 100
165 98.8 78.1 117.1
167 13.3 11.0 16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1680

Delta R.T. -0.013 min

Lab File: BN037546.D

Acq: 22 Jul 2025 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

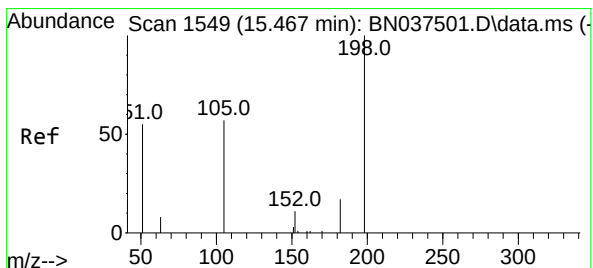
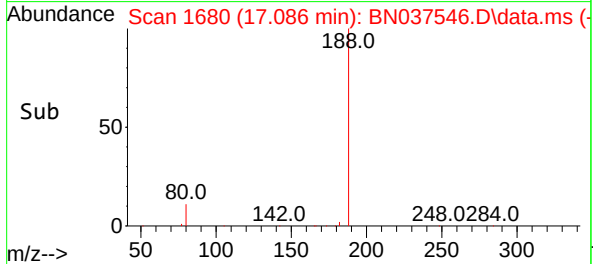
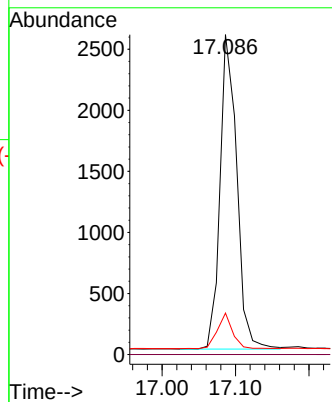
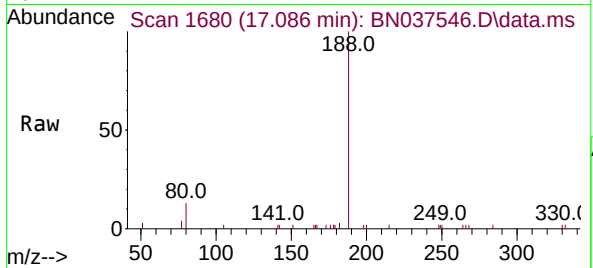
Tgt Ion:188 Resp: 4107

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.0 6.0 9.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.399 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037546.D

Acq: 22 Jul 2025 19:17

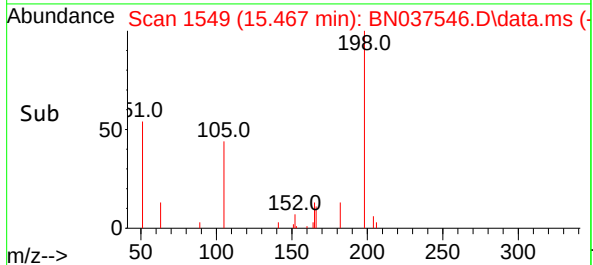
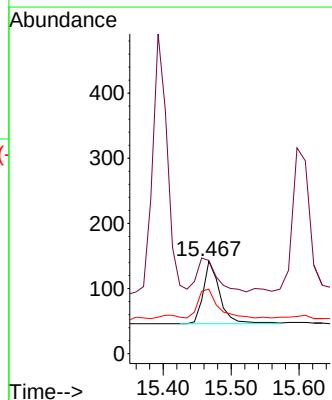
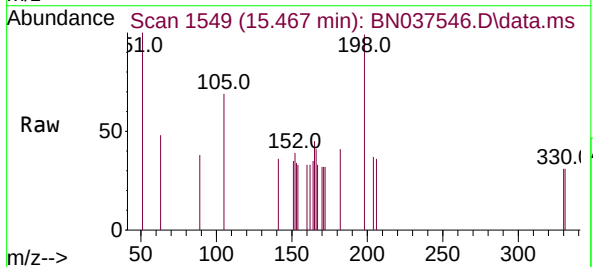
Tgt Ion:198 Resp: 172

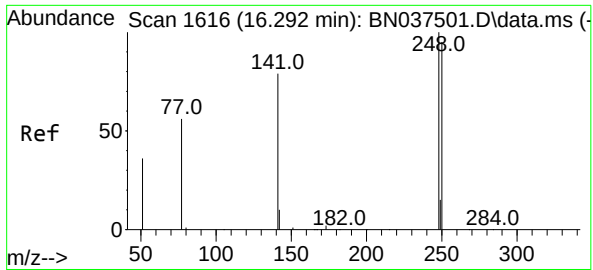
Ion Ratio Lower Upper

198 100

51 100.7 88.5 132.7

105 69.7 61.2 91.8

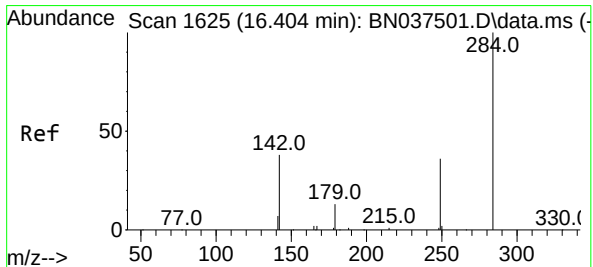
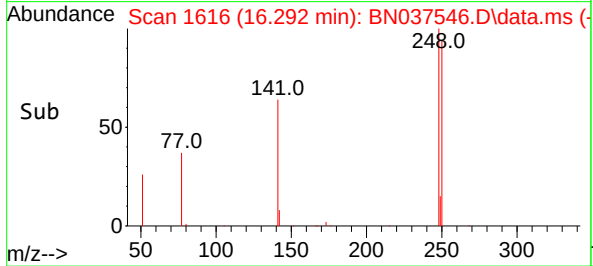
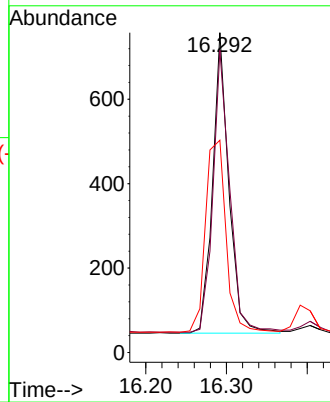
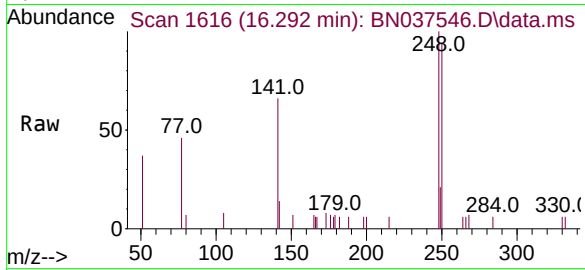




#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

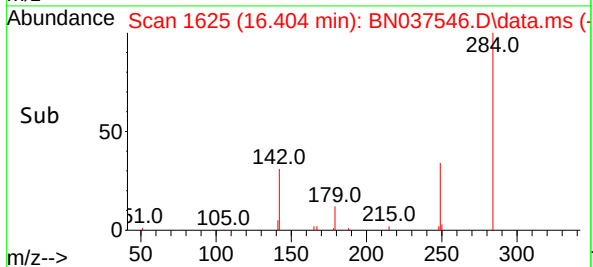
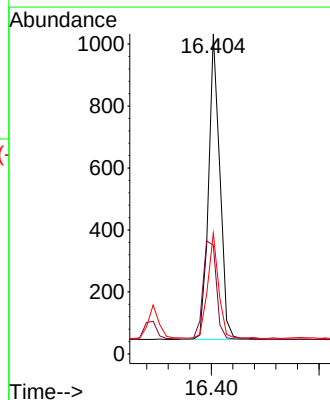
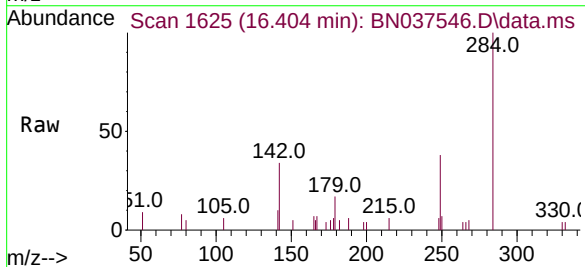
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

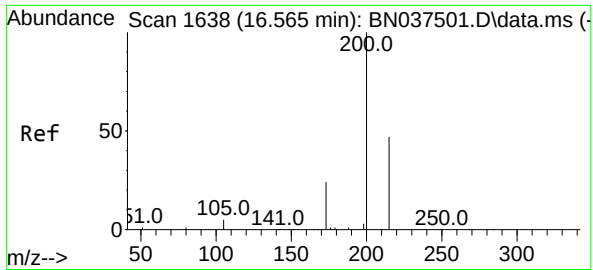
Tgt Ion:	248	Resp:	995
Ion Ratio	Lower	Upper	
248	100		
250	94.5	76.2	114.2
141	66.4	63.9	95.9



#22
Hexachlorobenzene
Concen: 0.422 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:	284	Resp:	1436
Ion Ratio	Lower	Upper	
284	100		
142	38.3	28.9	43.3
249	32.8	25.8	38.6

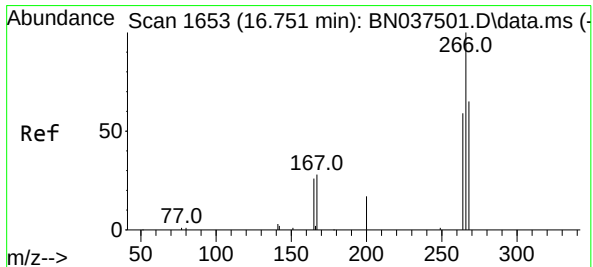
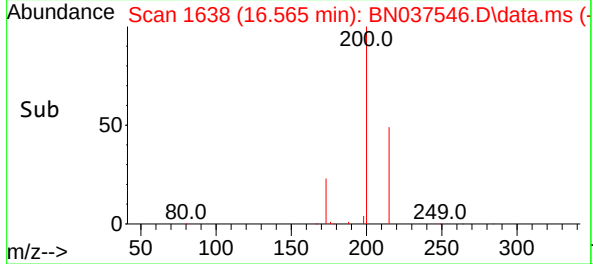
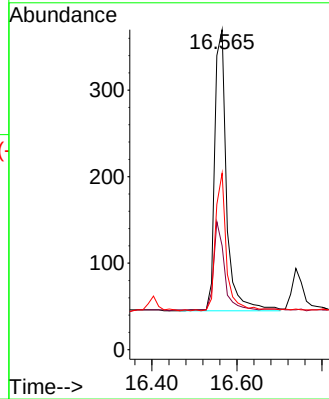
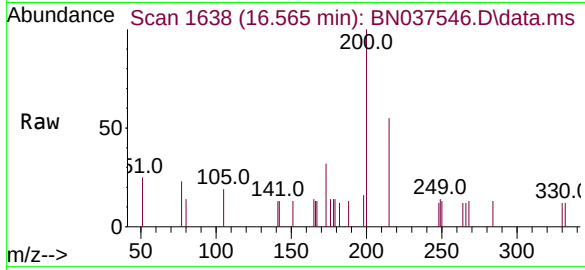




#23
Atrazine
Concen: 0.343 ng
RT: 16.565 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

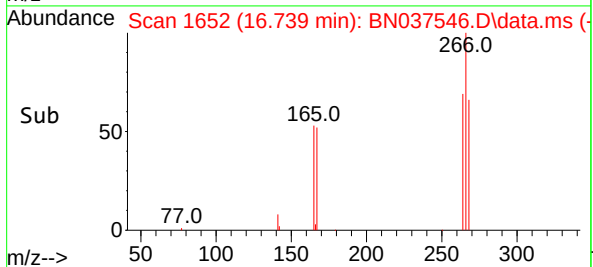
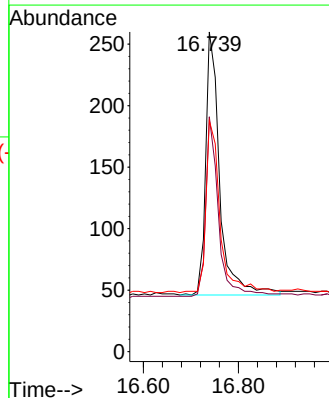
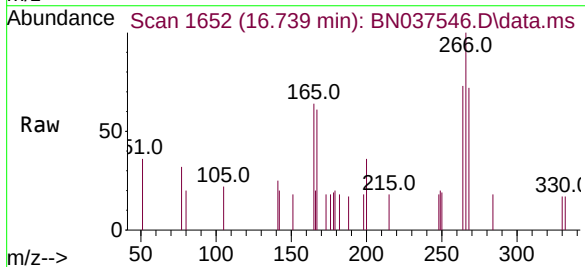
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

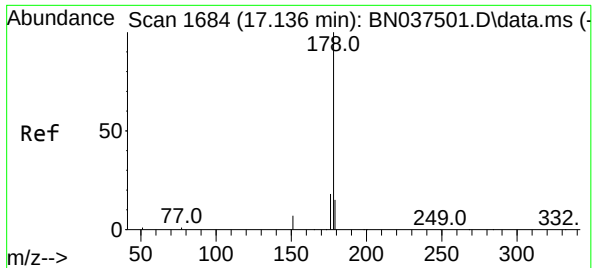
Tgt Ion:	200	Resp:	630
Ion Ratio	Lower	Upper	
200	100		
173	32.4	23.2	34.8
215	55.1	40.2	60.4



#24
Pentachlorophenol
Concen: 0.288 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.013 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:	266	Resp:	439
Ion Ratio	Lower	Upper	
266	100		
264	61.5	49.3	73.9
268	65.4	51.6	77.4

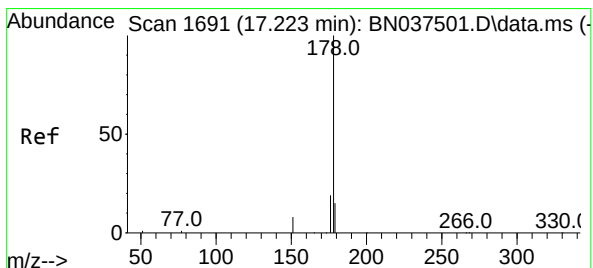
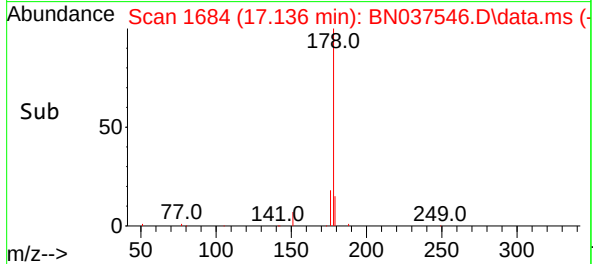
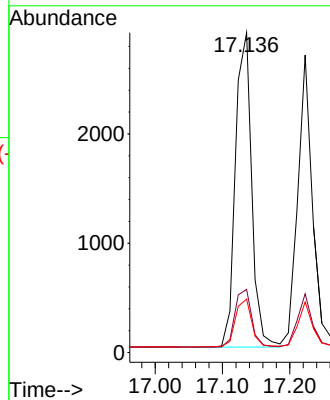
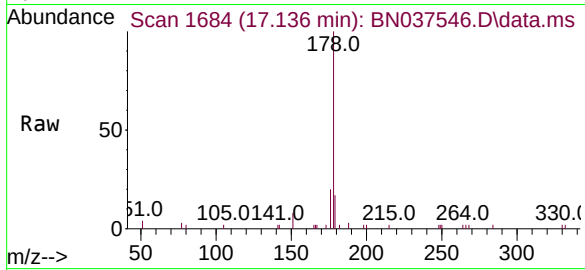




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

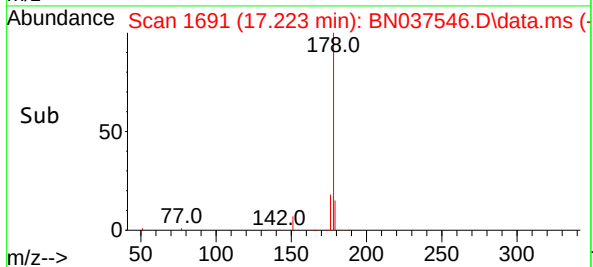
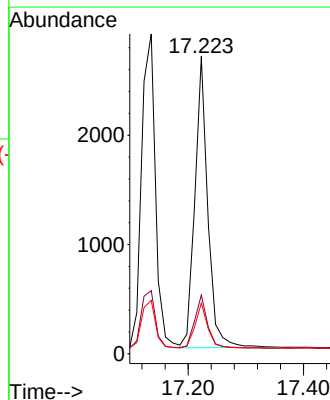
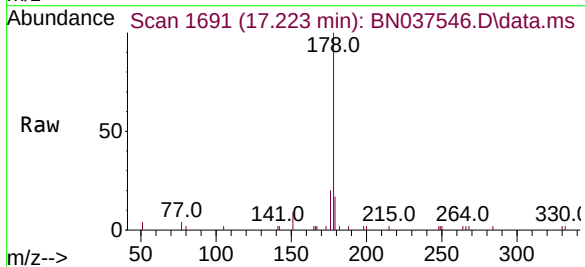
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

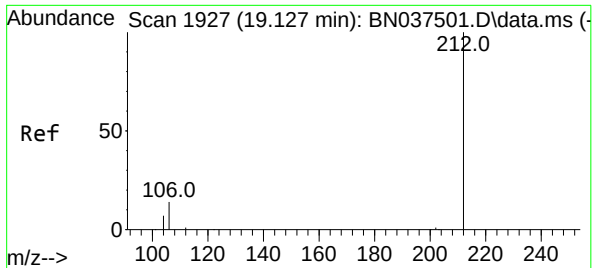
Tgt Ion:178 Resp: 4815
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.368 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:178 Resp: 4132
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.5 12.3 18.5

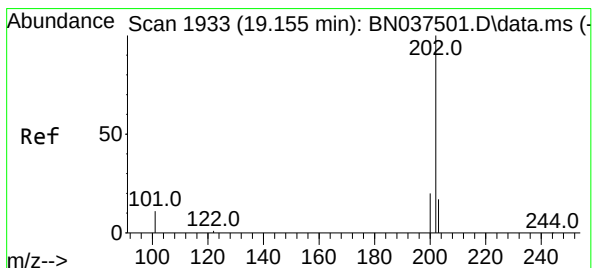
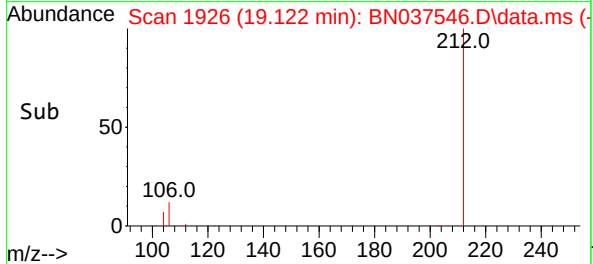
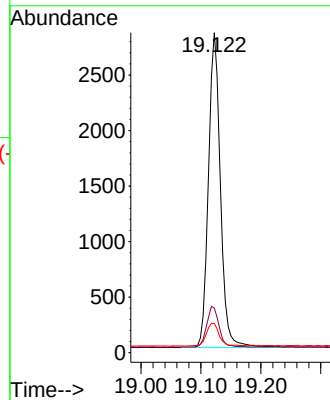
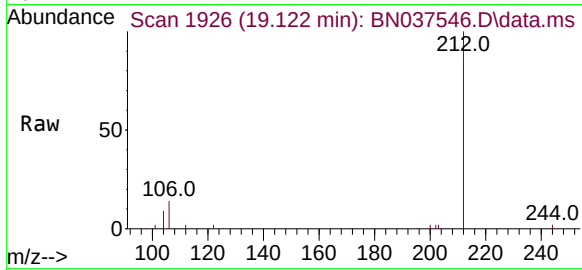




#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

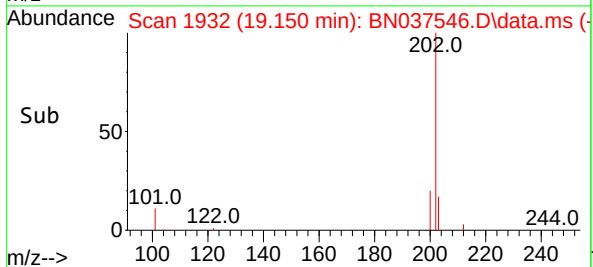
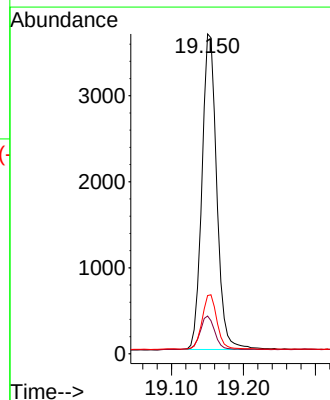
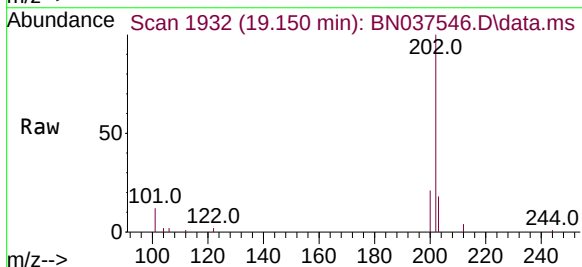
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

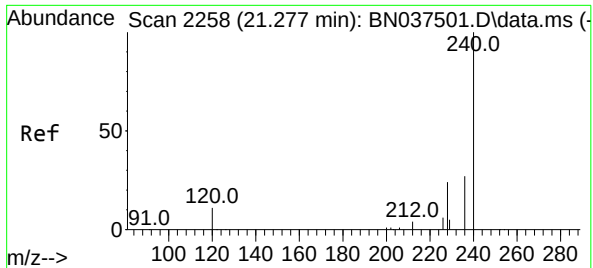
Tgt Ion:	212	Resp:	3937
Ion Ratio	Lower	Upper	
212	100		
106	13.2	12.2	18.4
104	7.8	6.7	10.1



#28
Fluoranthene
Concen: 0.371 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:	202	Resp:	5257
Ion Ratio	Lower	Upper	
202	100		
101	10.9	9.8	14.6
203	17.2	13.6	20.4

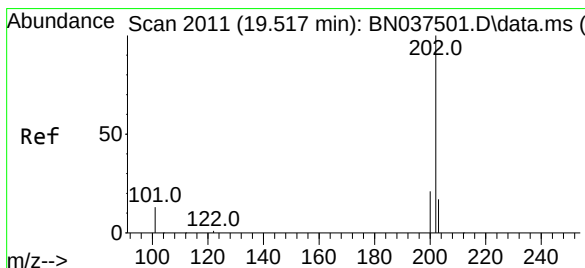
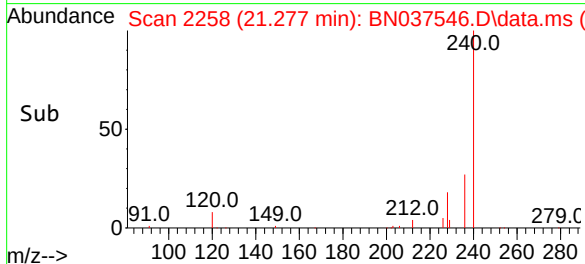
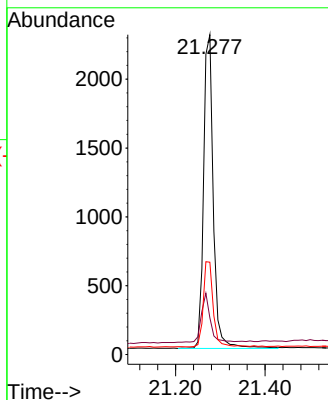
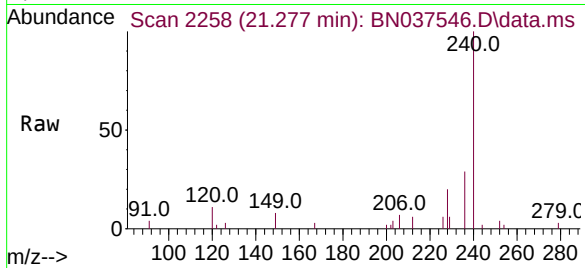




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

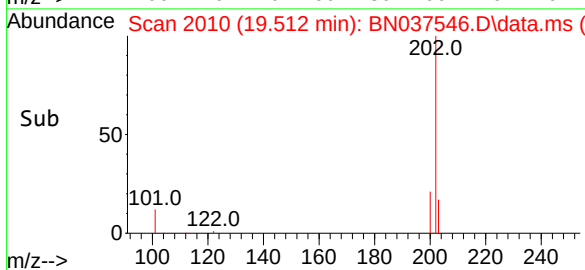
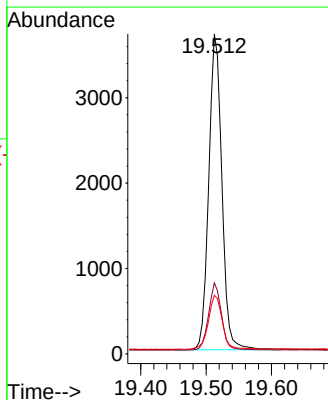
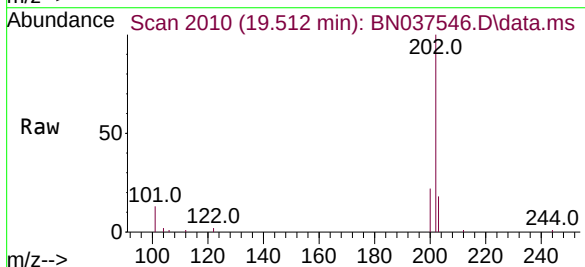
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

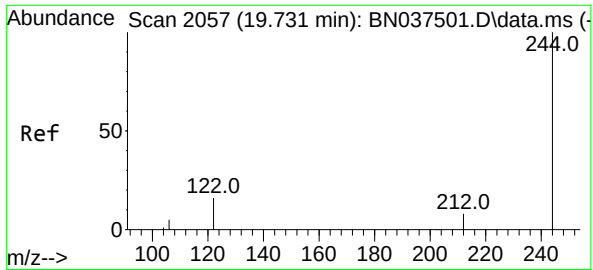
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.5	10.7	16.1
236	28.9	22.6	33.8



#30
Pyrene
Concen: 0.372 ng
RT: 19.512 min Scan# 2010
Delta R.T. -0.005 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.5	24.7
203	18.3	14.3	21.5

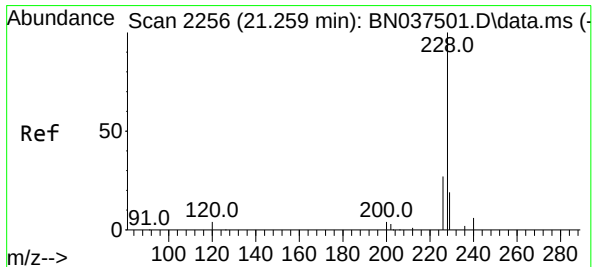
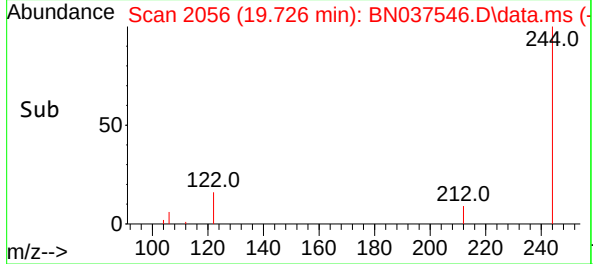
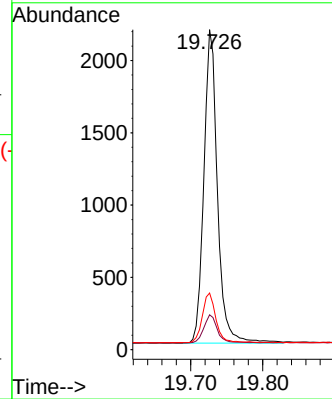
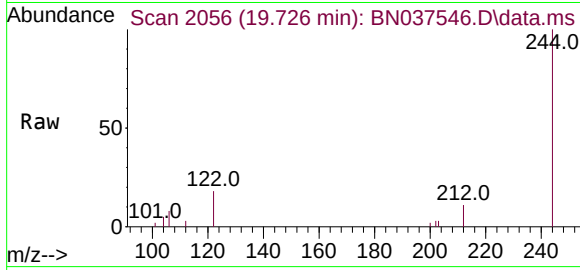




#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

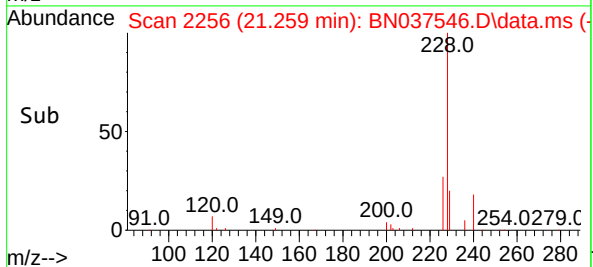
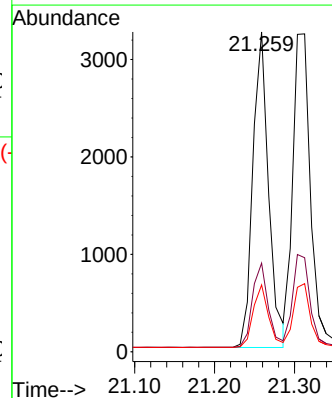
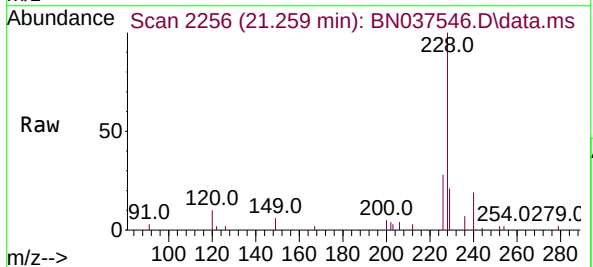
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

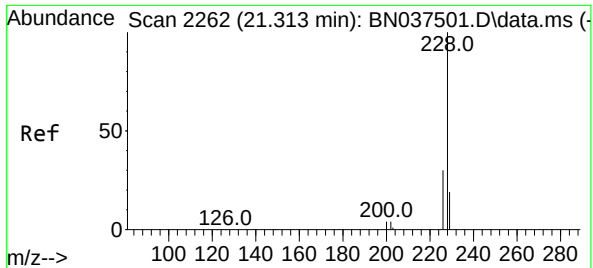
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.9	7.4	11.2
122	17.7	13.6	20.4



#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.9	32.9
229	20.9	15.8	23.8

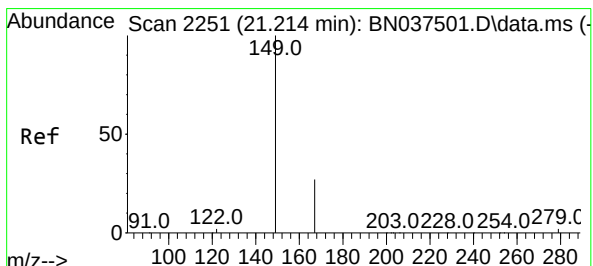
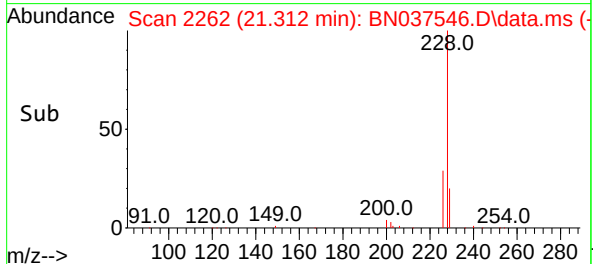
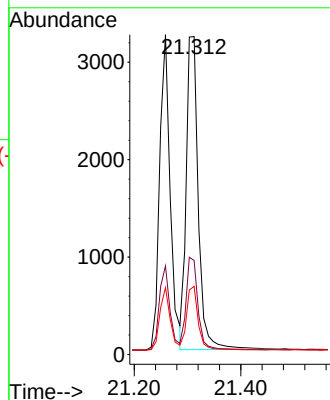
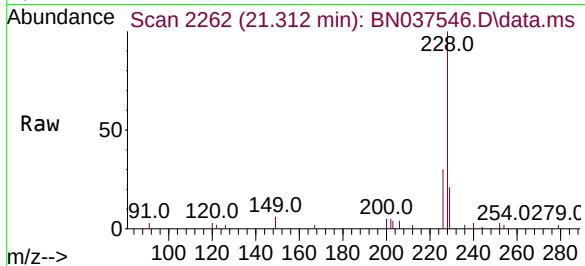




#33
Chrysene
Concen: 0.403 ng
RT: 21.312 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

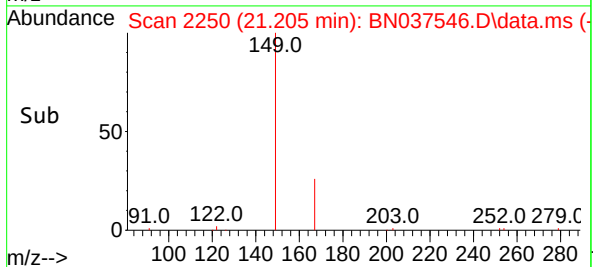
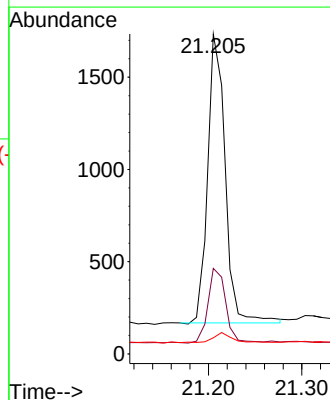
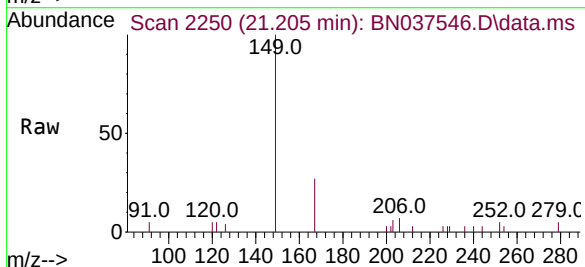
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

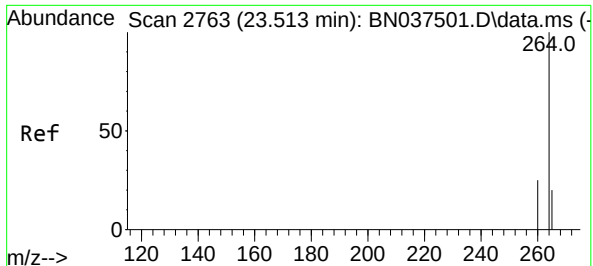
Tgt Ion:228 Resp: 5071
Ion Ratio Lower Upper
228 100
226 29.6 24.2 36.4
229 21.4 16.1 24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.375 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN037546.D
Acq: 22 Jul 2025 19:17

Tgt Ion:149 Resp: 2039
Ion Ratio Lower Upper
149 100
167 25.8 21.8 32.8
279 3.8 3.0 4.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.504 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037546.D

Acq: 22 Jul 2025 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

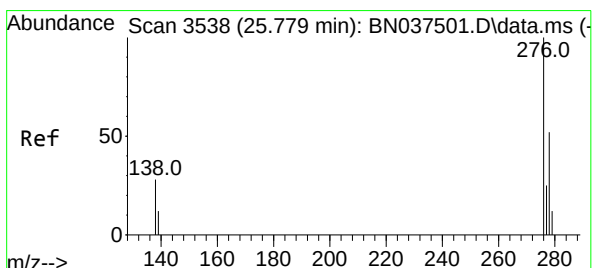
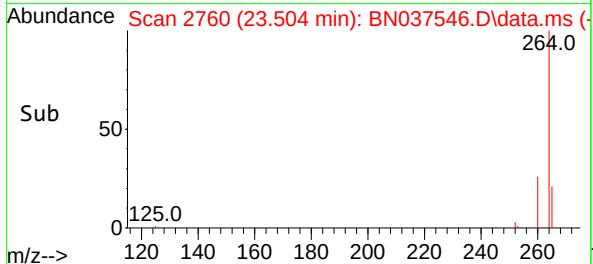
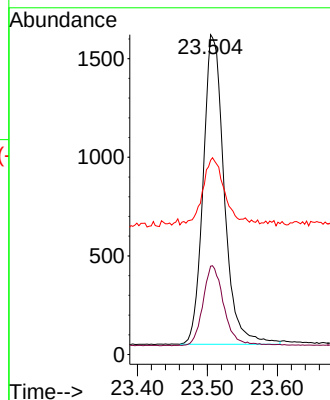
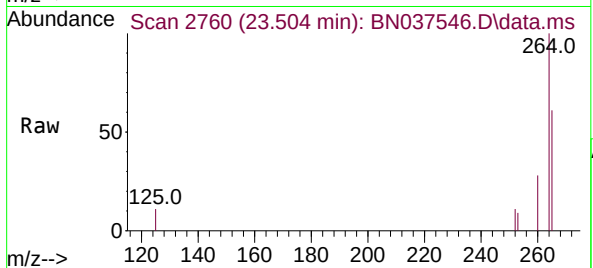
Tgt Ion:264 Resp: 3274

Ion Ratio Lower Upper

264 100

260 27.6 21.2 31.8

265 60.7 40.4 60.6#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.391 ng

RT: 25.770 min Scan# 3535

Delta R.T. -0.009 min

Lab File: BN037546.D

Acq: 22 Jul 2025 19:17

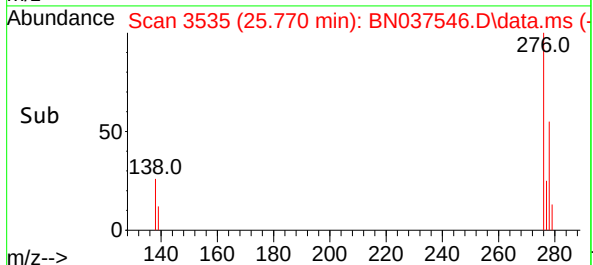
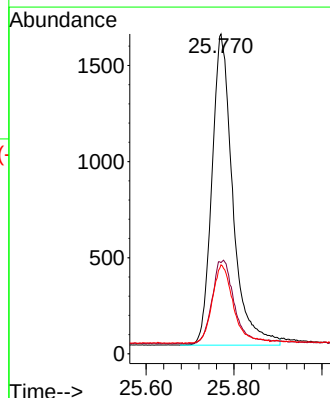
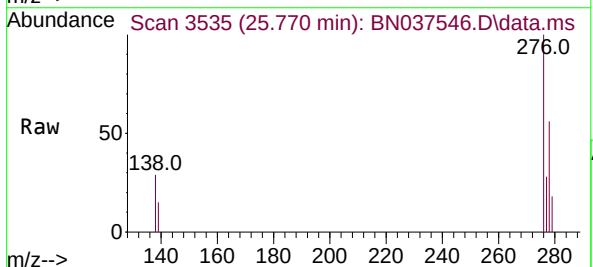
Tgt Ion:276 Resp: 5336

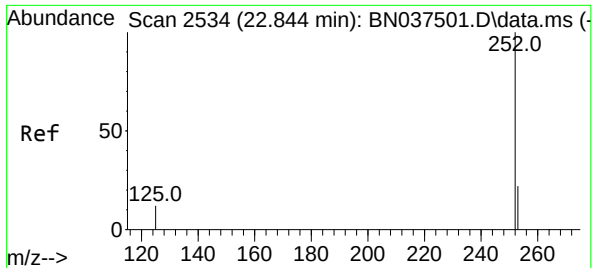
Ion Ratio Lower Upper

276 100

138 28.3 24.0 36.0

277 25.1 20.5 30.7





#37

Benzo(b)fluoranthene

Concen: 0.372 ng

RT: 22.838 min Scan# 2532

Delta R.T. -0.006 min

Lab File: BN037546.D

Acq: 22 Jul 2025 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

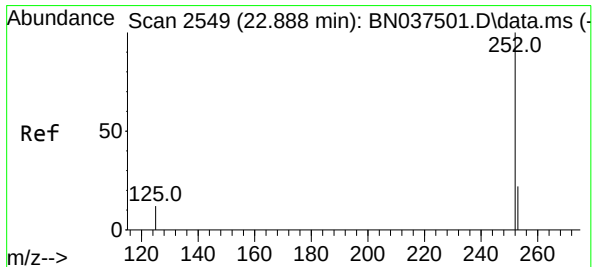
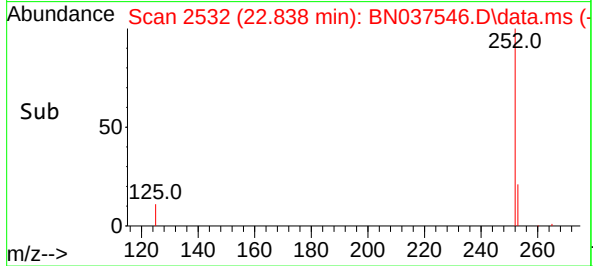
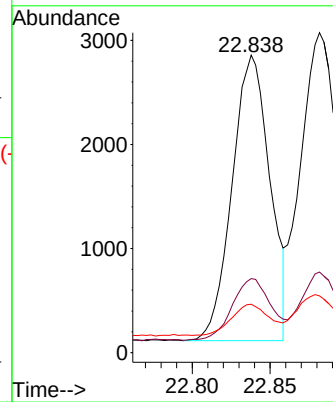
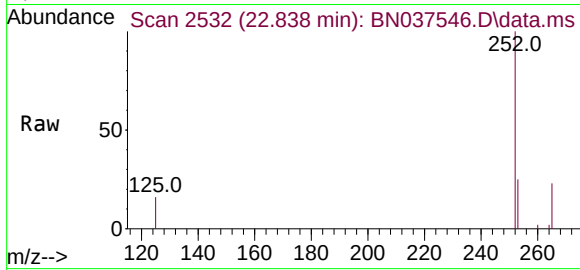
Tgt Ion:252 Resp: 4623

Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 16.3 13.0 19.6



#38

Benzo(k)fluoranthene

Concen: 0.409 ng

RT: 22.882 min Scan# 2547

Delta R.T. -0.006 min

Lab File: BN037546.D

Acq: 22 Jul 2025 19:17

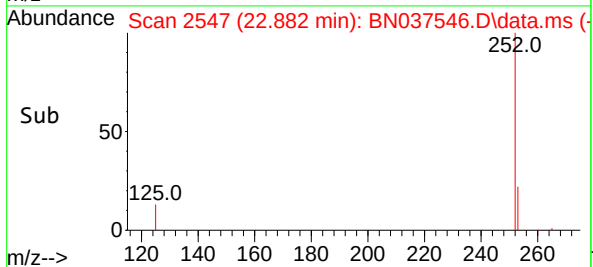
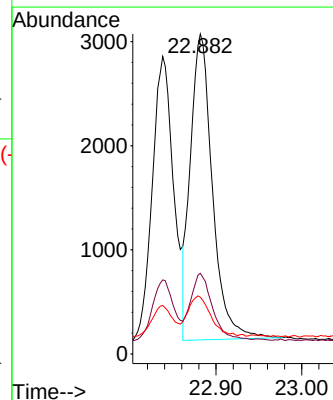
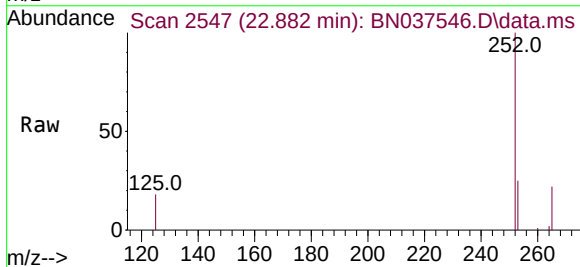
Tgt Ion:252 Resp: 5250

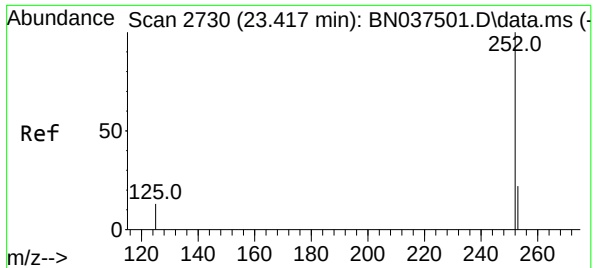
Ion Ratio Lower Upper

252 100

253 25.2 19.5 29.3

125 17.7 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.414 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037546.D

Acq: 22 Jul 2025 19:17

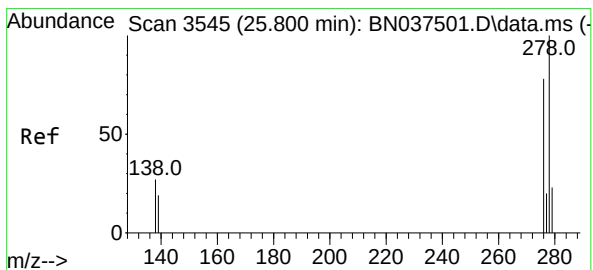
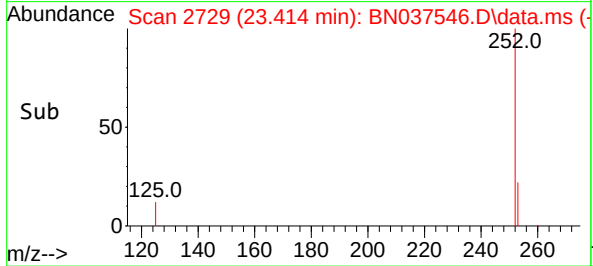
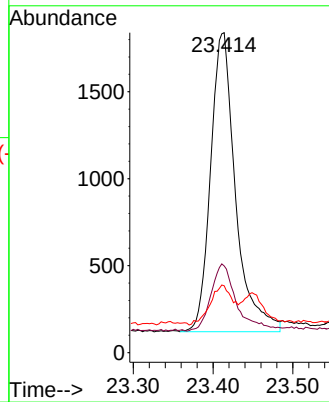
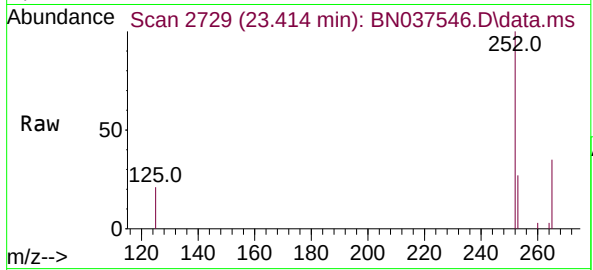
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252	Resp:	3741
Ion Ratio	Lower	Upper
252	100	
253	27.1	19.9 29.9
125	20.9	15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.384 ng

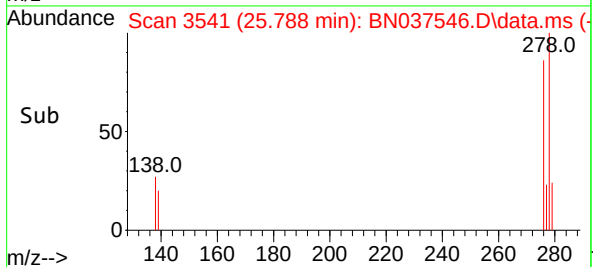
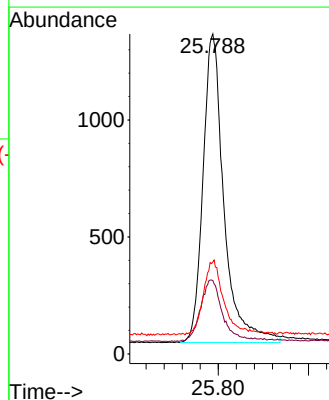
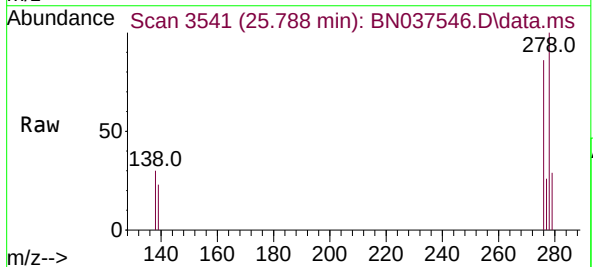
RT: 25.788 min Scan# 3541

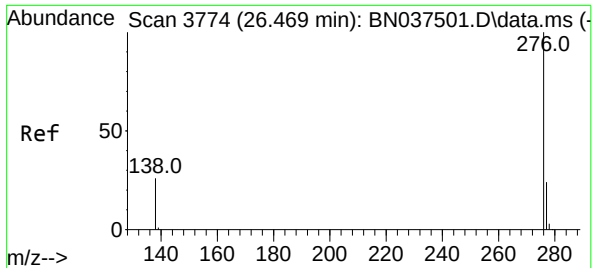
Delta R.T. -0.012 min

Lab File: BN037546.D

Acq: 22 Jul 2025 19:17

Tgt Ion:278	Resp:	4242
Ion Ratio	Lower	Upper
278	100	
139	23.0	17.5 26.3
279	28.7	21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.381 ng

RT: 26.457 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037546.D

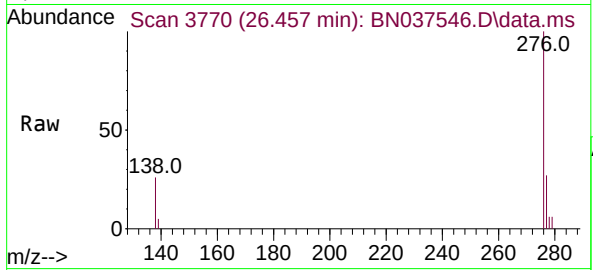
Acq: 22 Jul 2025 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



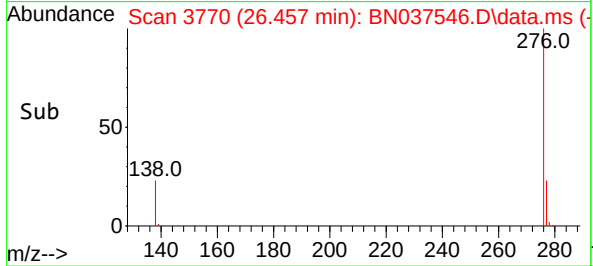
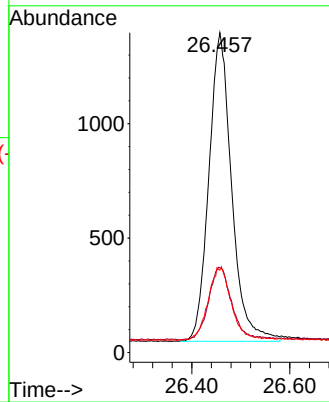
Tgt Ion:276 Resp: 4357

Ion Ratio Lower Upper

276 100

277 26.5 20.9 31.3

138 25.8 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
 Data File : BN037546.D
 Acq On : 22 Jul 2025 19:17
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jul 23 04:24:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00
2	1,4-Dioxane	0.385	0.403	-4.7	75	0.00
3	n-Nitrosodimethylamine	0.484	0.522	-7.9	82	0.00
4 S	2-Fluorophenol	0.989	0.861	12.9	64	0.00
5 S	Phenol-d6	1.241	1.033	16.8	64	0.00
6	bis(2-Chloroethyl)ether	1.033	0.935	9.5	67	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	70	-0.01
8 S	Nitrobenzene-d5	0.299	0.280	6.4	69	0.00
9	Naphthalene	1.067	1.029	3.6	69	0.00
10	Hexachlorobutadiene	0.236	0.270	-14.4	80	-0.01
11 SURR	2-Methylnaphthalene-d10	0.574	0.516	10.1	67	0.00
12	2-Methylnaphthalene	0.701	0.641	8.6	66	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	64	0.00
14 S	2,4,6-Tribromophenol	0.197	0.151	23.4	56	-0.01
15 S	2-Fluorobiphenyl	2.080	2.268	-9.0	71	0.00
16	Acenaphthylene	1.792	1.697	5.3	63	0.00
17	Acenaphthene	1.218	1.174	3.6	64	-0.01
18	Fluorene	1.569	1.511	3.7	65	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	63	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.042	26.3#	64	0.00
21	4-Bromophenyl-phenylether	0.256	0.242	5.5	63	0.00
22	Hexachlorobenzene	0.331	0.350	-5.7	68	0.00
23	Atrazine	0.179	0.153	14.5	61	0.00
24	Pentachlorophenol	0.149	0.107	28.2#	54	-0.01
25	Phenanthrene	1.198	1.172	2.2	64	0.00
26	Anthracene	1.093	1.006	8.0	63	0.00
27 SURR	Fluoranthene-d10	1.060	0.959	9.5	63	0.00
28	Fluoranthene	1.382	1.280	7.4	63	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	66	0.00
30	Pyrene	1.612	1.499	7.0	62	0.00
31 S	Terphenyl-d14	0.859	0.825	4.0	65	0.00
32	Benzo(a)anthracene	1.401	1.286	8.2	63	0.00
33	Chrysene	1.459	1.471	-0.8	68	0.00
34	Bis(2-ethylhexyl)phthalate	0.630	0.592	6.0	69	0.00
35 I	Perylene-d12	1.000	1.000	0.0	68	0.00
36	Indeno(1,2,3-cd)pyrene	1.666	1.630	2.2	73	0.00
37	Benzo(b)fluoranthene	1.518	1.412	7.0	66	0.00
38	Benzo(k)fluoranthene	1.567	1.604	-2.4	73	0.00
39 C	Benzo(a)pyrene	1.267	1.143	9.8	65	0.00
40	Dibenzo(a,h)anthracene	1.349	1.296	3.9	73	-0.01
41	Benzo(g,h,i)perylene	1.397	1.331	4.7	69	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037546.D
Acq On : 22 Jul 2025 19:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jul 23 04:24:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	73	0.00
2	1,4-Dioxane	0.400	0.420	-5.0	75	0.00
3	n-Nitrosodimethylamine	0.400	0.432	-8.0	82	0.00
4 S	2-Fluorophenol	0.400	0.348	13.0	64	0.00
5 S	Phenol-d6	0.400	0.333	16.8	64	0.00
6	bis(2-Chloroethyl)ether	0.400	0.362	9.5	67	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	70	-0.01
8 S	Nitrobenzene-d5	0.400	0.374	6.5	69	0.00
9	Naphthalene	0.400	0.386	3.5	69	0.00
10	Hexachlorobutadiene	0.400	0.458	-14.5	80	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	67	0.00
12	2-Methylnaphthalene	0.400	0.365	8.8	66	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	64	0.00
14 S	2,4,6-Tribromophenol	0.400	0.308	23.0	56	-0.01
15 S	2-Fluorobiphenyl	0.400	0.436	-9.0	71	0.00
16	Acenaphthylene	0.400	0.379	5.3	63	0.00
17	Acenaphthene	0.400	0.385	3.8	64	-0.01
18	Fluorene	0.400	0.385	3.8	65	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	63	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.399	0.3	64	0.00
21	4-Bromophenyl-phenylether	0.400	0.378	5.5	63	0.00
22	Hexachlorobenzene	0.400	0.422	-5.5	68	0.00
23	Atrazine	0.400	0.343	14.2	61	0.00
24	Pentachlorophenol	0.400	0.288	28.0#	54	-0.01
25	Phenanthrene	0.400	0.391	2.3	64	0.00
26	Anthracene	0.400	0.368	8.0	63	0.00
27 SURR	Fluoranthene-d10	0.400	0.362	9.5	63	0.00
28	Fluoranthene	0.400	0.371	7.3	63	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	66	0.00
30	Pyrene	0.400	0.372	7.0	62	0.00
31 S	Terphenyl-d14	0.400	0.384	4.0	65	0.00
32	Benzo(a)anthracene	0.400	0.367	8.3	63	0.00
33	Chrysene	0.400	0.403	-0.8	68	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.375	6.3	69	0.00
35 I	Perylene-d12	0.400	0.400	0.0	68	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.391	2.3	73	0.00
37	Benzo(b)fluoranthene	0.400	0.372	7.0	66	0.00
38	Benzo(k)fluoranthene	0.400	0.409	-2.2	73	0.00
39 C	Benzo(a)pyrene	0.400	0.361	9.8	65	0.00
40	Dibenzo(a,h)anthracene	0.400	0.384	4.0	73	-0.01
41	Benzo(g,h,i)perylene	0.400	0.381	4.8	69	-0.01

(#) = Out of Range

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



QC SAMPLE DATA

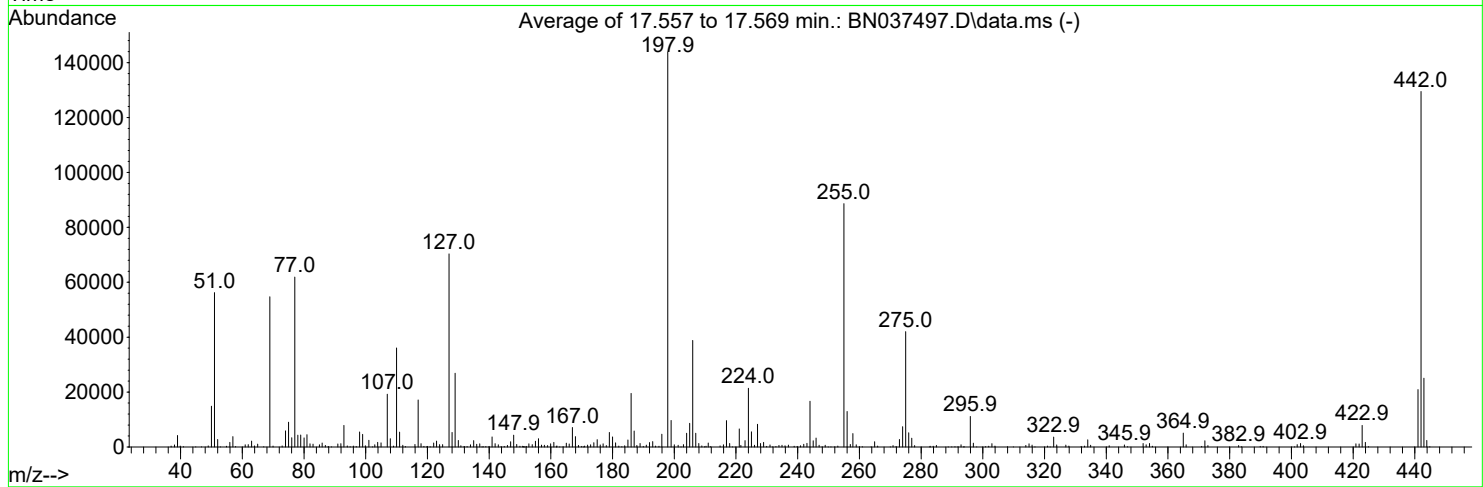
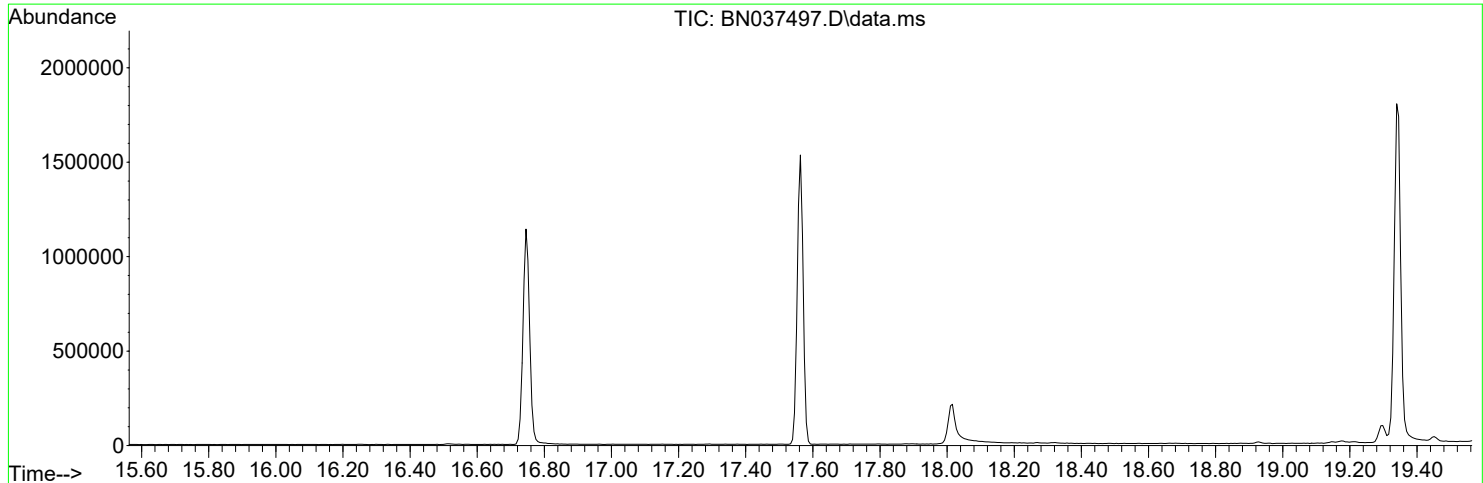
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

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

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jul 16 01:39:21 2025



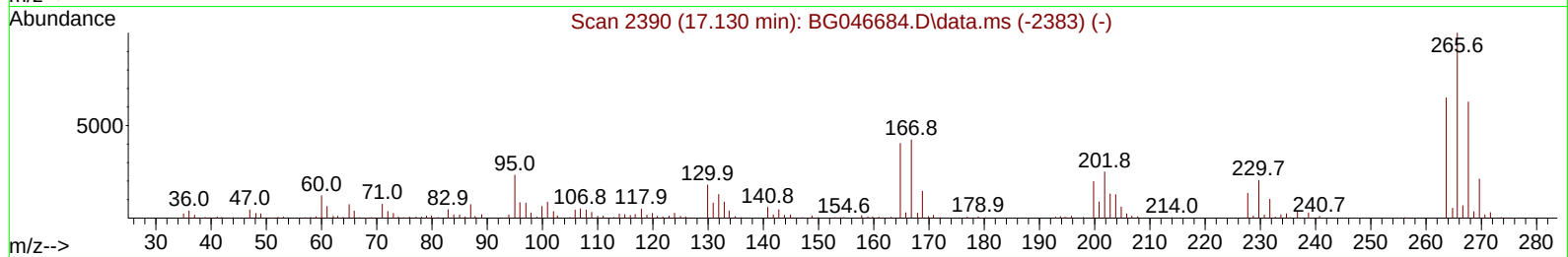
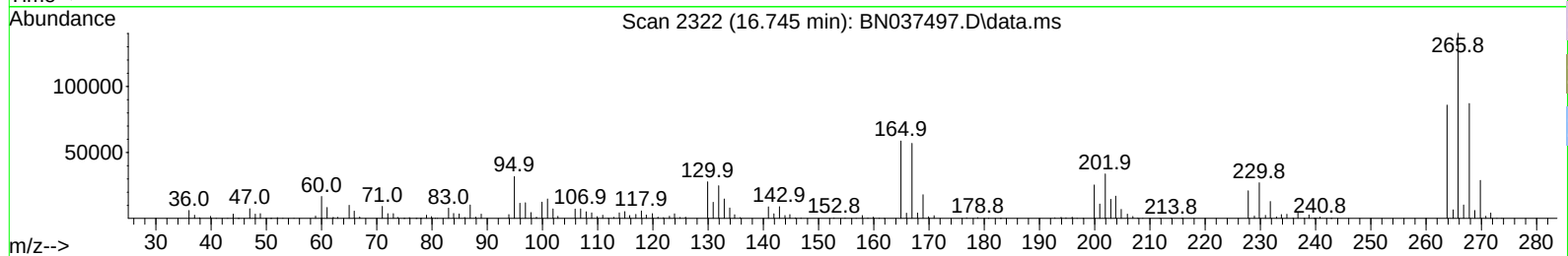
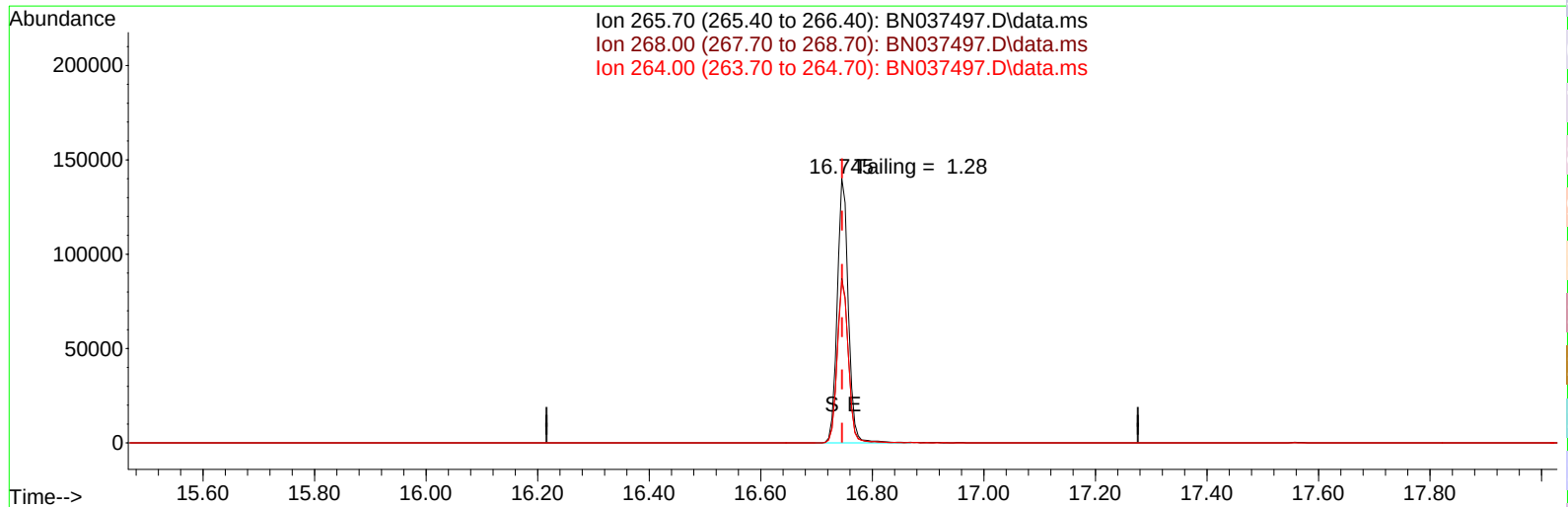
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	54709	PASS
70	69	0.00	2	0.6	344	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	143808	PASS
199	198	5	9	6.7	9669	PASS
365	198	1	100	3.5	5100	PASS
441	443	0.01	150	83.6	20941	PASS
442	442	100	100	100.0	129491	PASS
443	442	15	24	19.4	25064	PASS

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

Instrument :
BNA_N
ClientSampleId :
DFTPP

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



TIC: BN037497.D\data.ms

(70) Pentachlorophenol (C)

16.745min (-0.001) 31259.96 ng

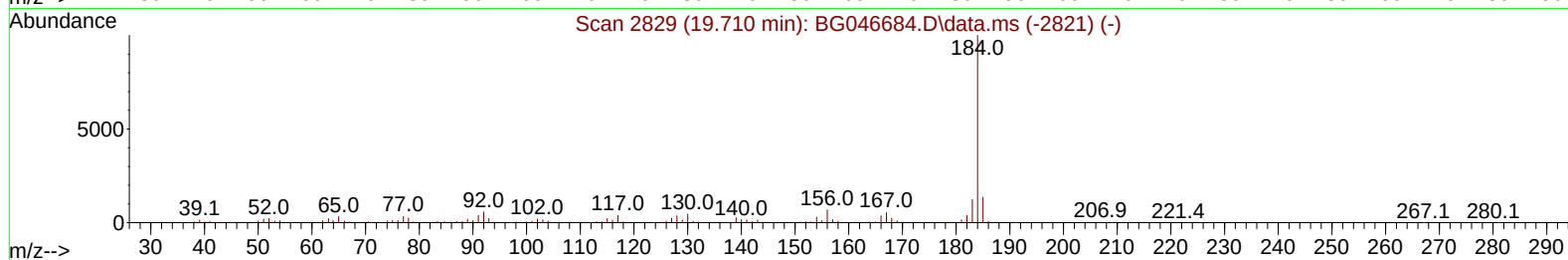
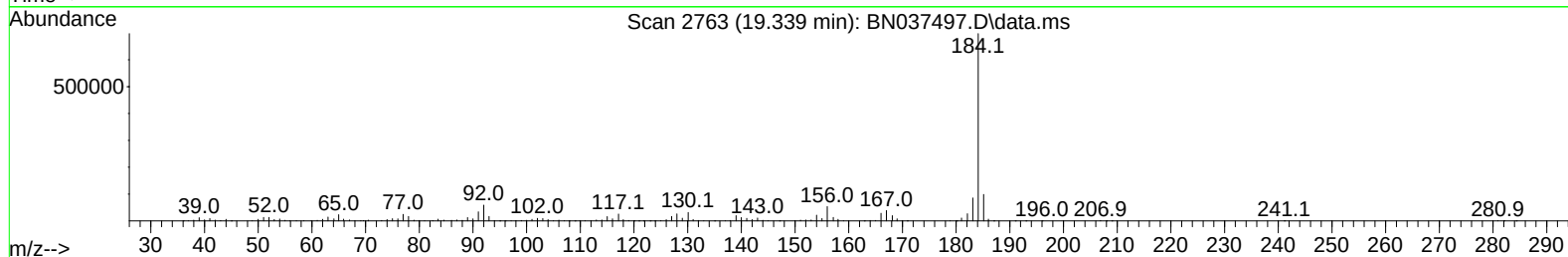
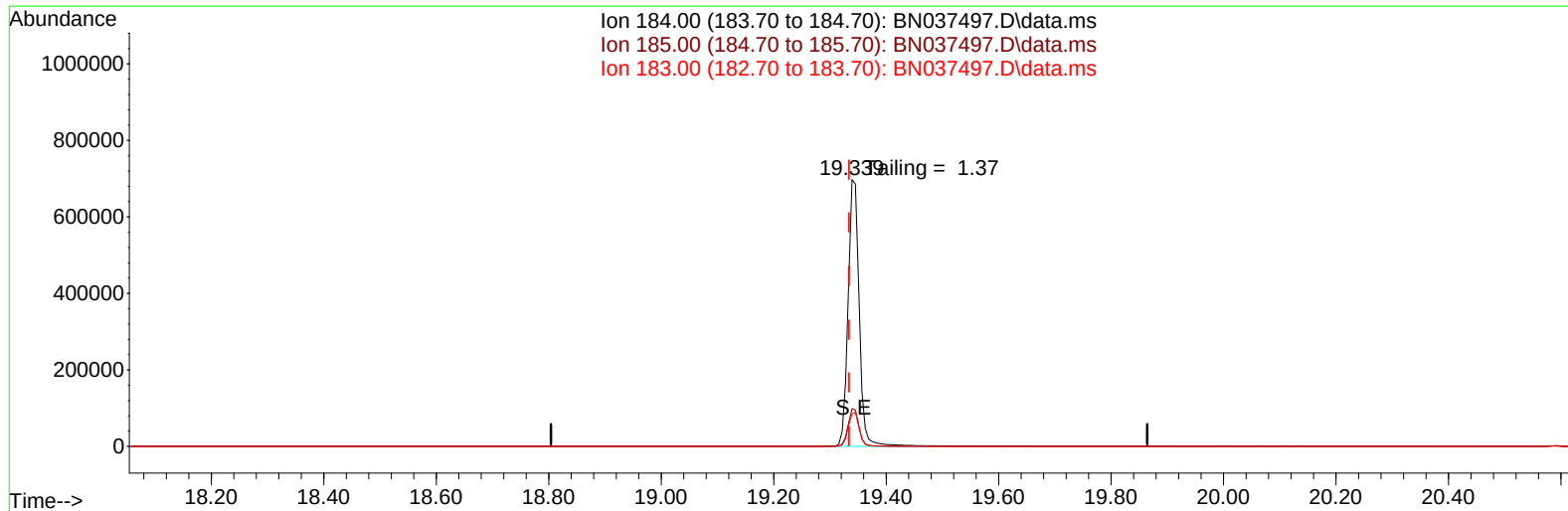
response 194539

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

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

Instrument :
BNA_N
ClientSampleId :
DFTPP

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



TIC: BN037497.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 963155

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

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

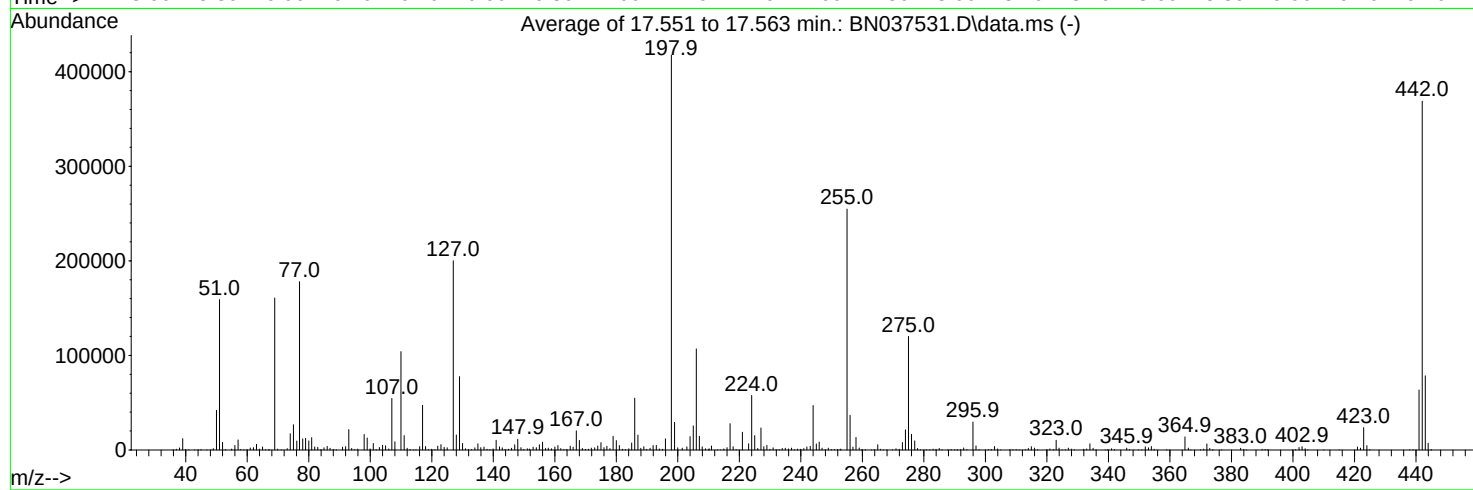
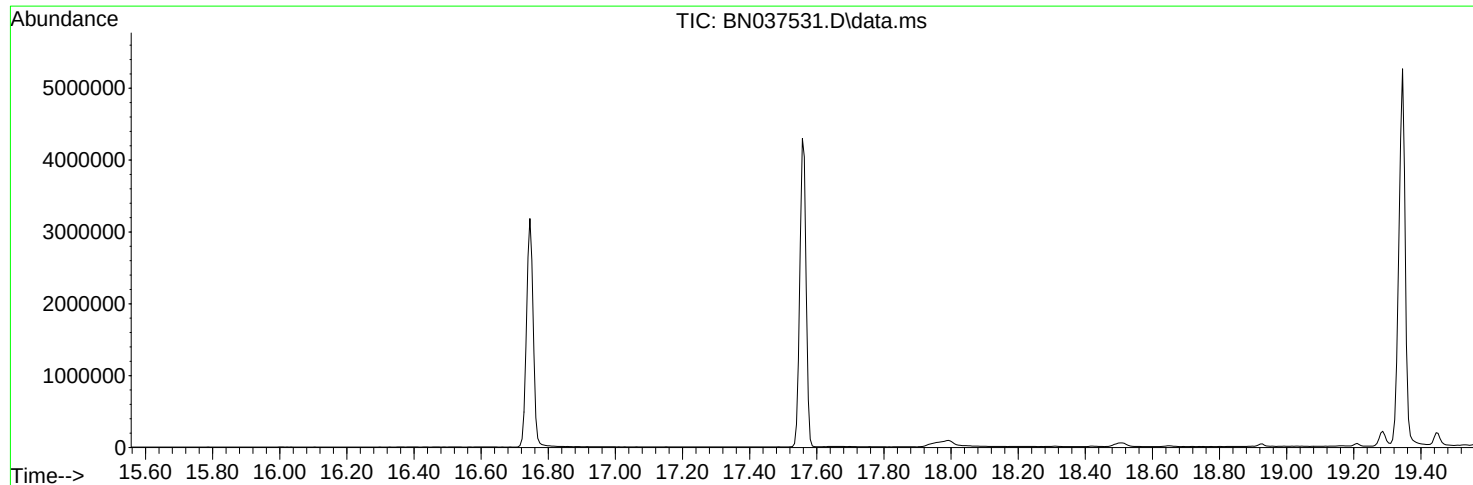
Date	Instrument Name	DFTPP Data File
7/15/2025	BNA_N	<u>BN037497.D</u>
Compound Name	Response	Retention Time
DDT	478094	20.592
DDD	7051	20.145
DDE	60	19.639
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7111	485205	1.47

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037531.D
Acq On : 22 Jul 2025 10:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jul 19 01:46:16 2025



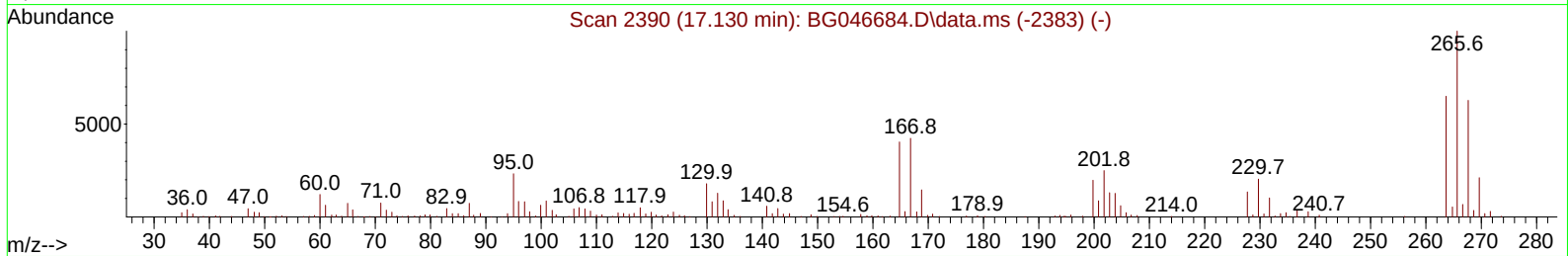
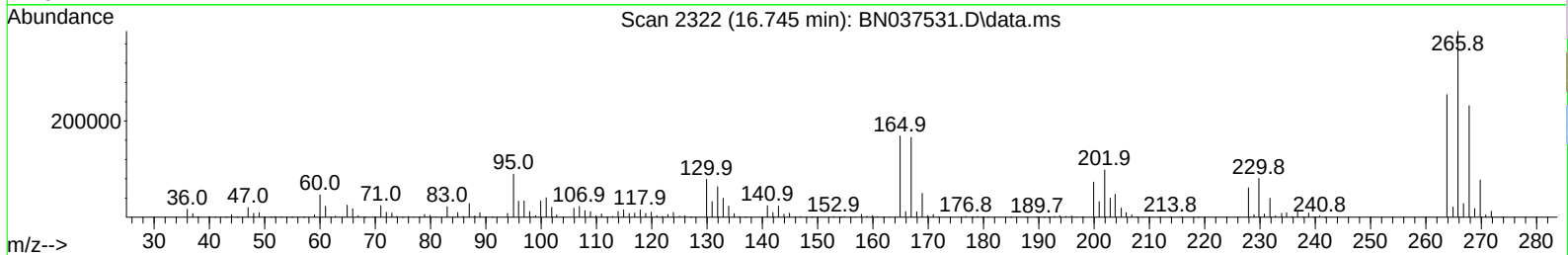
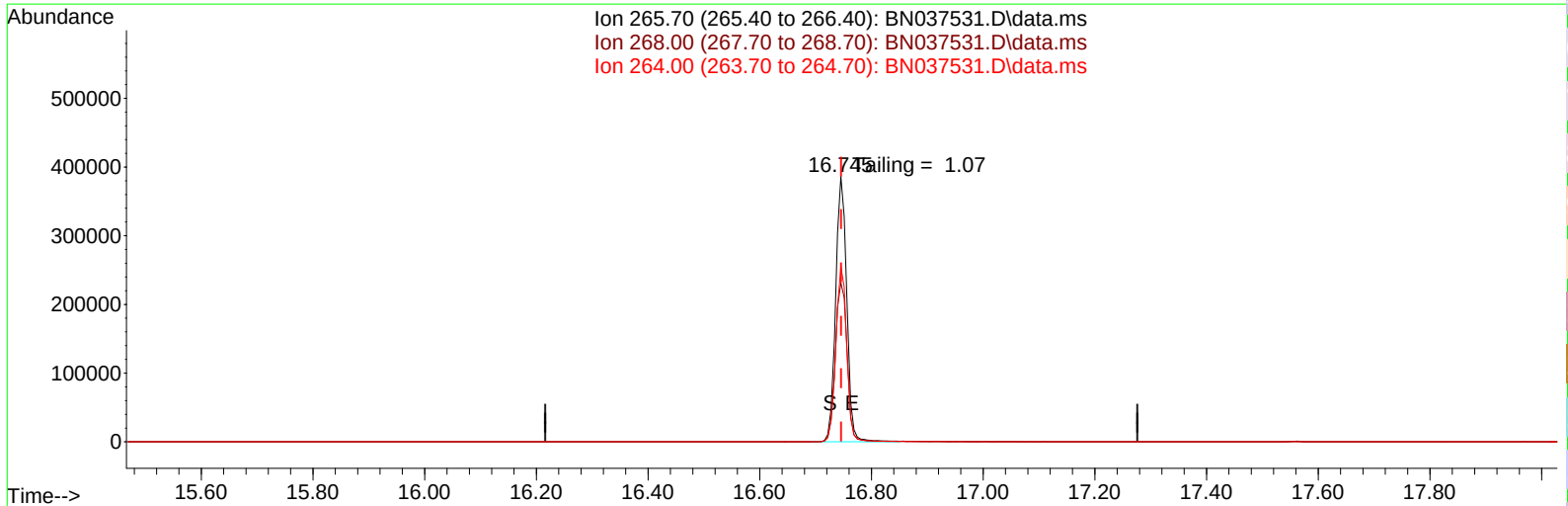
AutoFind: Scans 2459, 2460, 2461; Background Corrected with Scan 2452

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	160747	PASS
70	69	0.00	2	0.6	942	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	417557	PASS
199	198	5	9	7.0	29259	PASS
365	198	1	100	3.3	13803	PASS
441	443	0.01	150	80.9	63376	PASS
442	442	100	100	100.0	368768	PASS
443	442	15	24	21.3	78379	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037531.D
Acq On : 22 Jul 2025 10:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 22 18:01:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 10 02:20:59 2025
Response via : Initial Calibration



TIC: BN037531.D\data.ms

(70) Pentachlorophenol (C)

16.745min (-0.001) 26722.11 ng

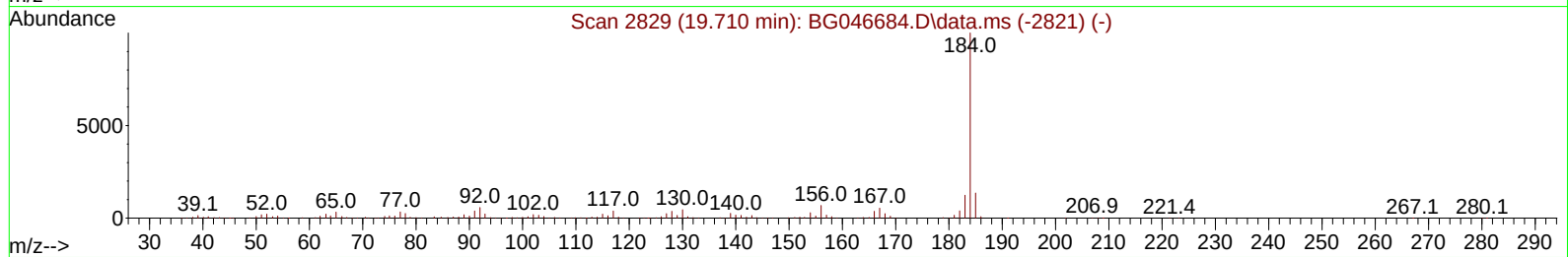
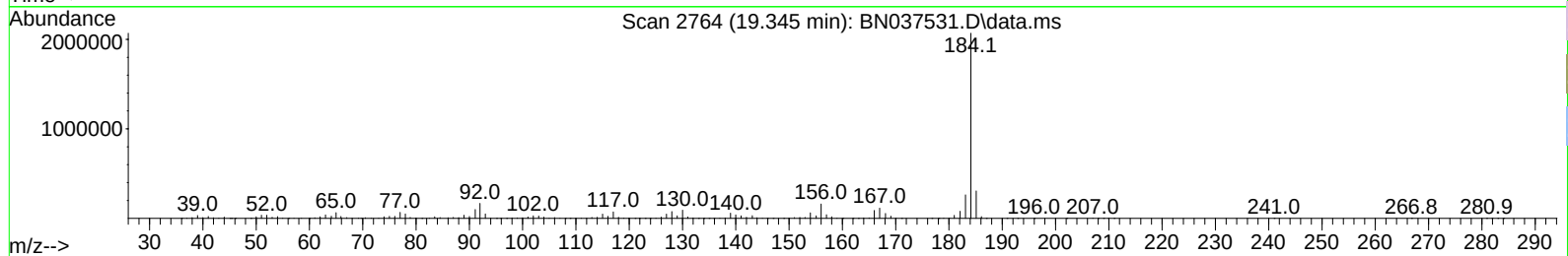
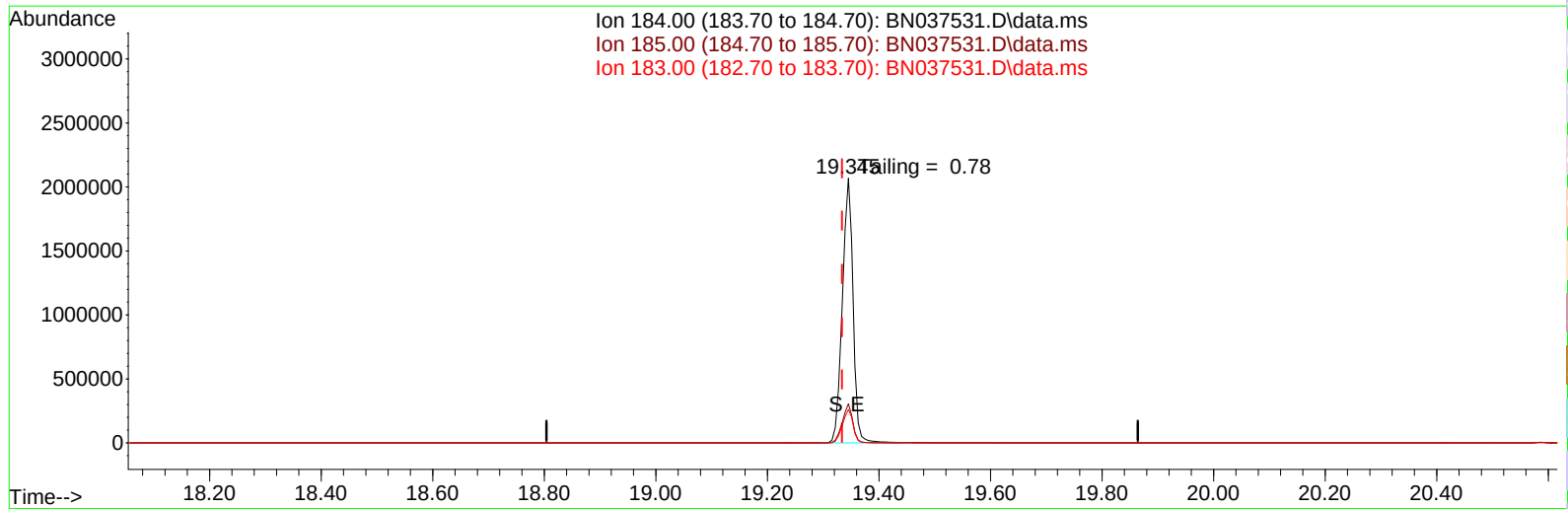
response 535805

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.01
264.00	61.60	65.98
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037531.D
Acq On : 22 Jul 2025 10:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 22 18:01:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 10 02:20:59 2025
Response via : Initial Calibration



TIC: BN037531.D\data.ms

(77) Benzidine

19.345min (+ 0.011) 0.00 ng

response 2779976

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.81
183.00	13.20	12.68
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/22/2025	BNA_N	<u>BN037531.D</u>
Compound Name	Response	Retention Time
DDT	1254739	20.586
DDD	12905	20.198
DDE	284	19.633
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
13189	1267928	1.04

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168952BL	SDG No.:	Q2643
Lab Sample ID:	PB168952BL	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
BN037533.D	1	07/21/25 09:10	07/22/25 11:28	PB168952

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	0.31		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	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	3220	7.724				
1146-65-2	Naphthalene-d8	8000	10.509				
15067-26-2	Acenaphthene-d10	4010	14.356				
1517-22-2	Phenanthrene-d10	6960	17.099				
1719-03-5	Chrysene-d12	4780	21.277				
1520-96-3	Perylene-d12	4730	23.513				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037533.D
Acq On : 22 Jul 2025 11:28
Operator : RC/JU
Sample : PB168952BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168952BL

Quant Time: Jul 22 11:54:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3218	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	8001	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	4007	0.400	ng	0.00
19) Phenanthrene-d10	17.099	188	6964	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4782	0.400	ng	0.00
35) Perylene-d12	23.513	264	4734	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2663	0.335	ng	0.00
5) Phenol-d6	6.887	99	3019	0.302	ng	0.00
8) Nitrobenzene-d5	8.865	82	1976	0.330	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	3640	0.317	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	232	0.118	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	7692	0.369	ng	0.00
27) Fluoranthene-d10	19.122	212	5631	0.305	ng	0.00
31) Terphenyl-d14	19.726	244	3896	0.379	ng	0.00

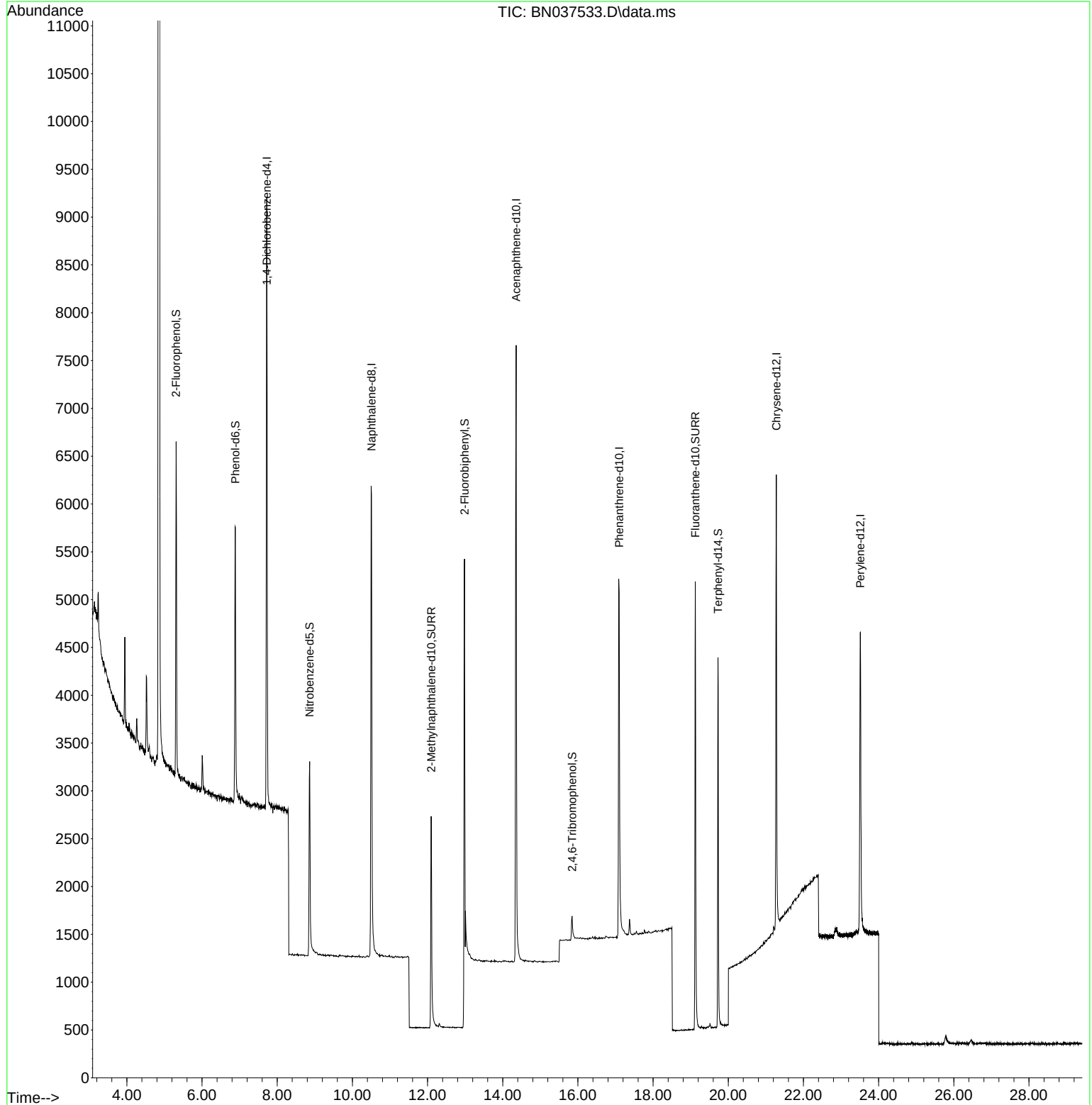
Target Compounds	Qvalue

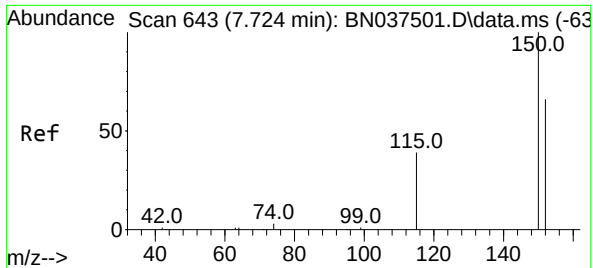
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037533.D
Acq On : 22 Jul 2025 11:28
Operator : RC/JU
Sample : PB168952BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168952BL

Quant Time: Jul 22 11:54:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

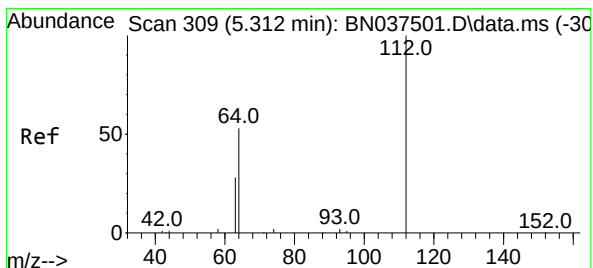
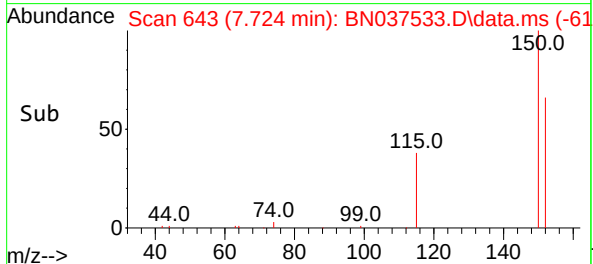
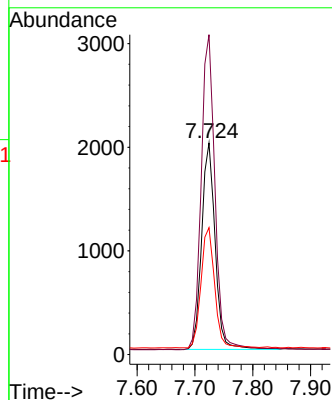
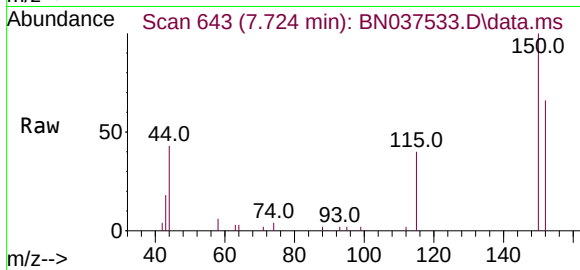




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

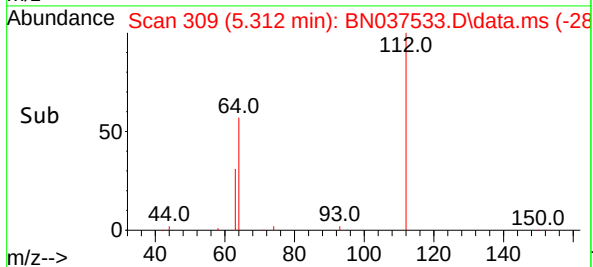
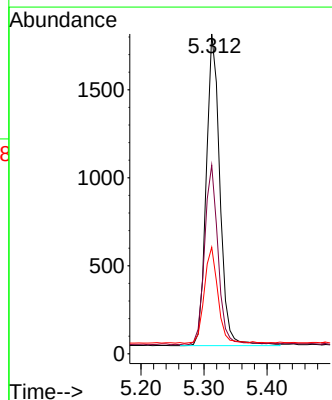
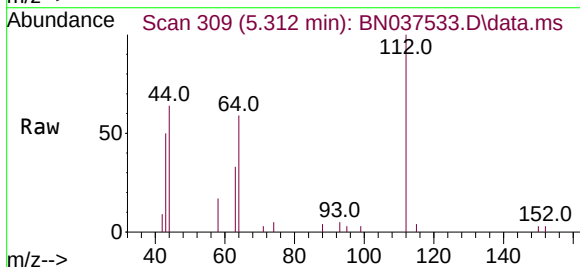
Instrument :
BNA_N
ClientSampleId :
PB168952BL

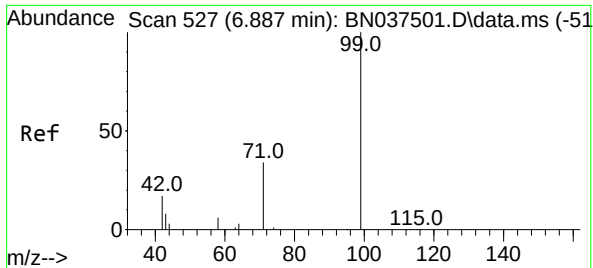
Tgt Ion	152	Resp:	3218
Ion	Ratio	Lower	Upper
152	100		
150	151.2	119.8	179.8
115	60.0	49.1	73.7



#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

Tgt Ion	112	Resp:	2663
Ion	Ratio	Lower	Upper
112	100		
64	57.0	45.1	67.7
63	30.3	23.8	35.8

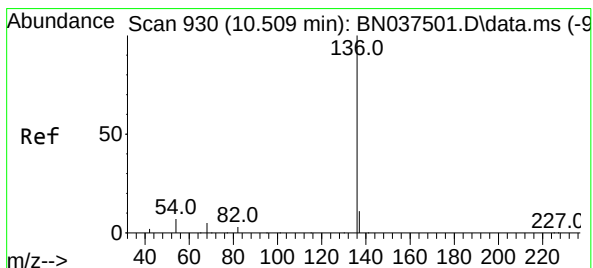
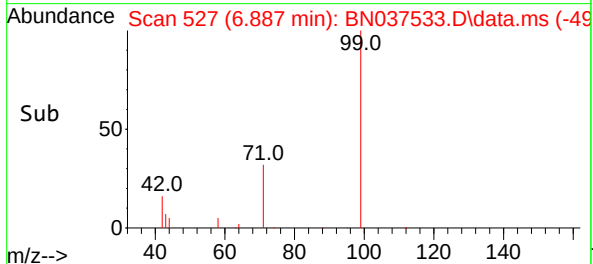
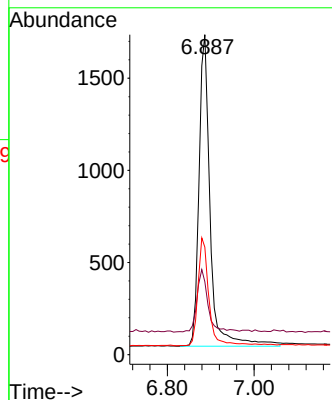
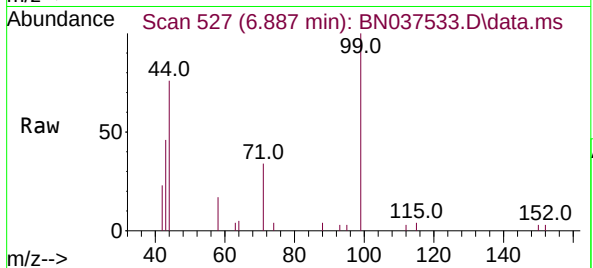




#5
Phenol-d6
Concen: 0.302 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

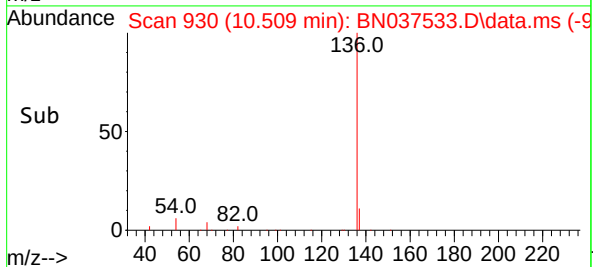
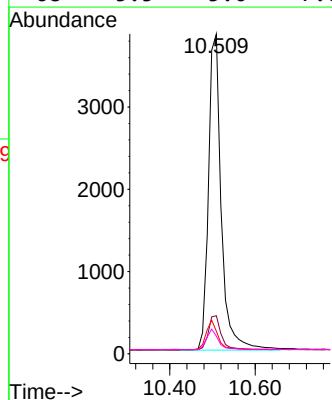
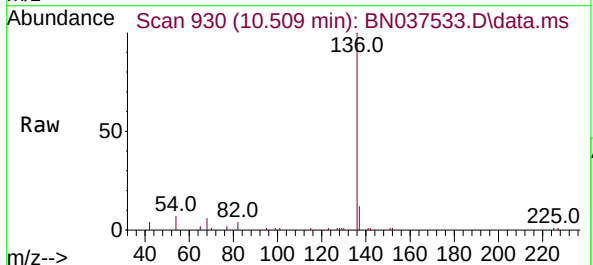
Instrument :
BNA_N
ClientSampleId :
PB168952BL

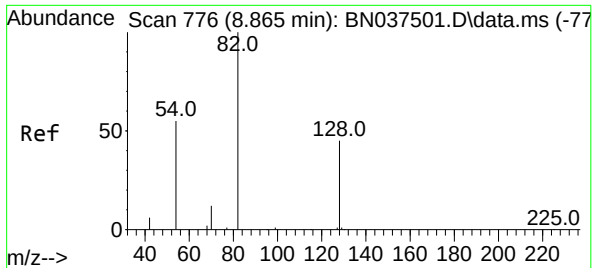
Tgt Ion:	99	Resp:	3019
Ion	Ratio	Lower	Upper
99	100		
42	19.4	17.1	25.7
71	33.8	27.8	41.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

Tgt Ion:	136	Resp:	8001
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	7.0	6.6	9.8
68	5.5	5.0	7.6

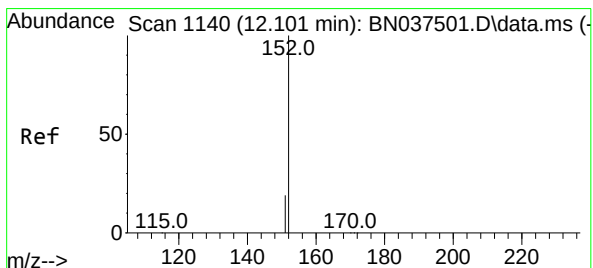
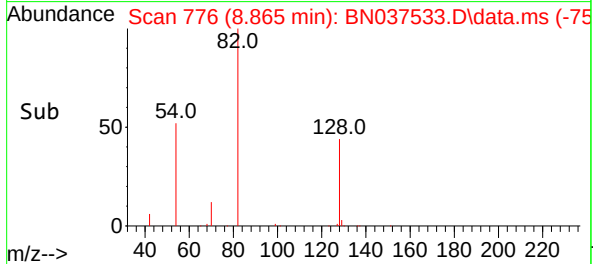
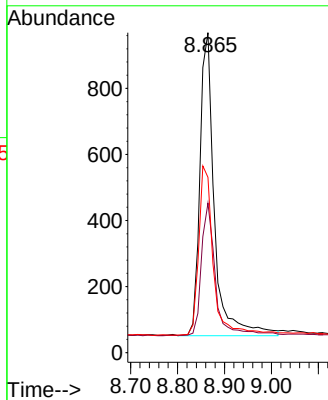
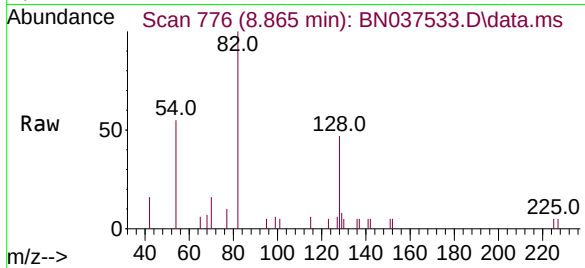




#8
Nitrobenzene-d5
Concen: 0.330 ng
RT: 8.865 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

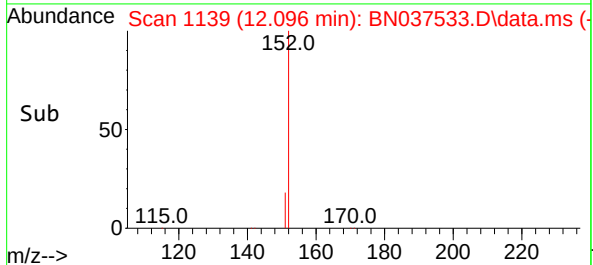
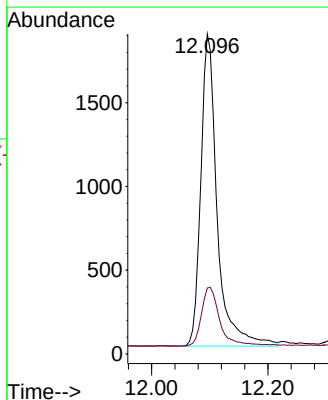
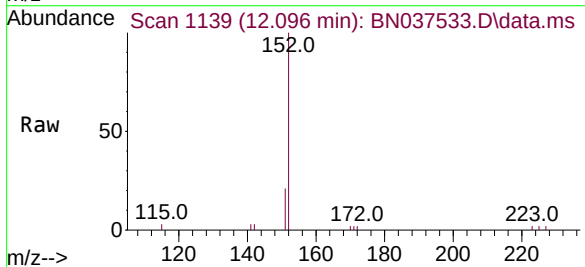
Instrument :
BNA_N
ClientSampleId :
PB168952BL

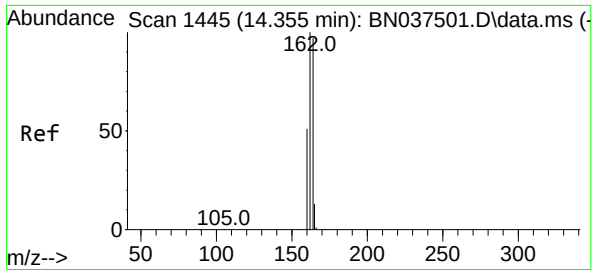
Tgt Ion:	82	Resp:	1976
Ion Ratio	Lower	Upper	
82	100		
128	46.7	37.5	56.3
54	54.8	45.3	67.9



#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

Tgt Ion:	152	Resp:	3640
Ion Ratio	Lower	Upper	
152	100		
151	21.6	16.8	25.2

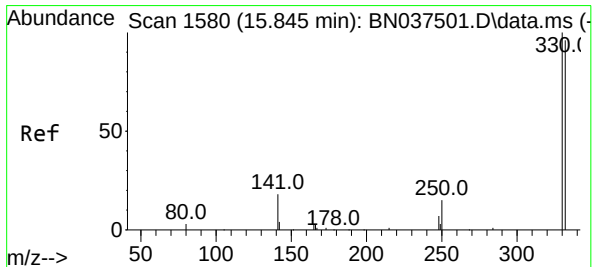
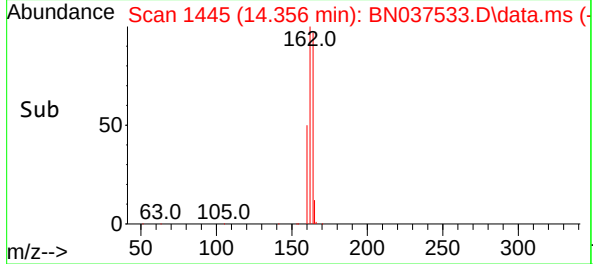
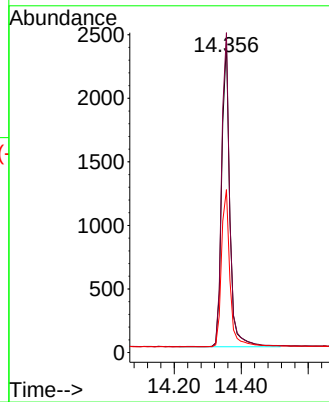
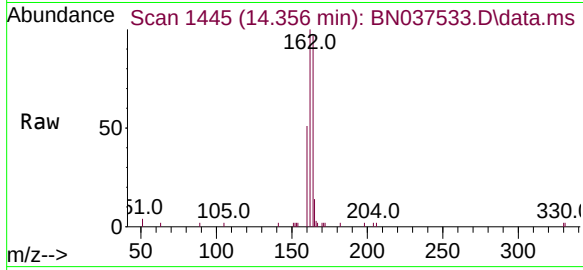




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

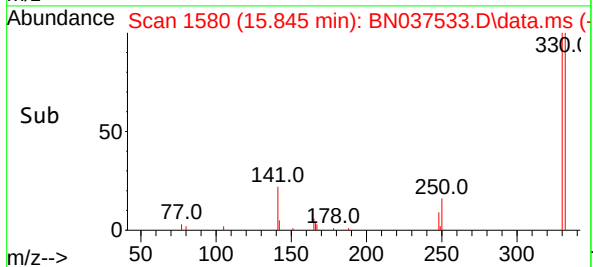
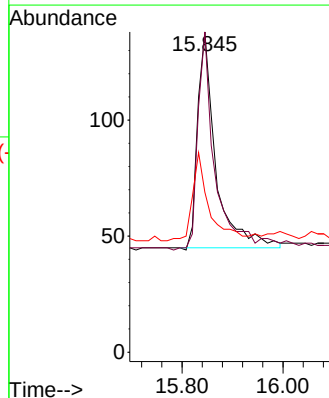
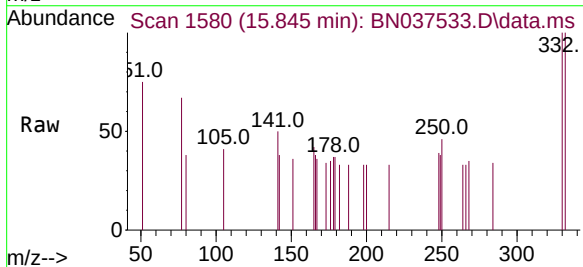
Instrument :
BNA_N
ClientSampleId :
PB168952BL

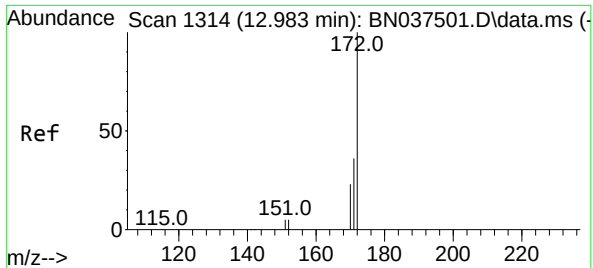
Tgt Ion:	164	Resp:	4007
Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.0	123.0
160	52.4	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.118 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

Tgt Ion:	330	Resp:	232
Ion	Ratio	Lower	Upper
330	100		
332	94.8	76.1	114.1
141	37.5	33.4	50.0

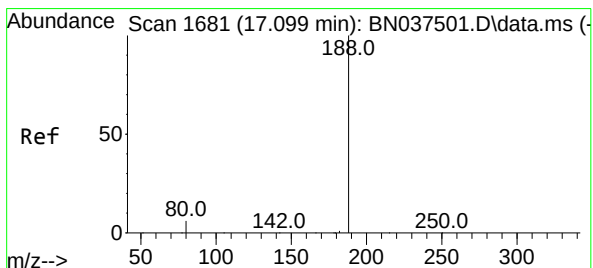
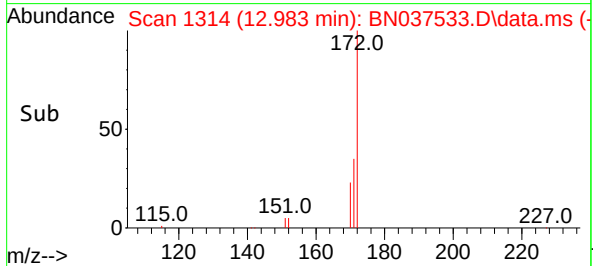
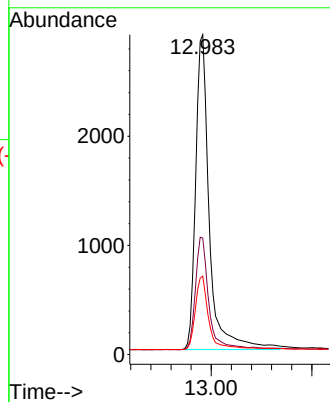
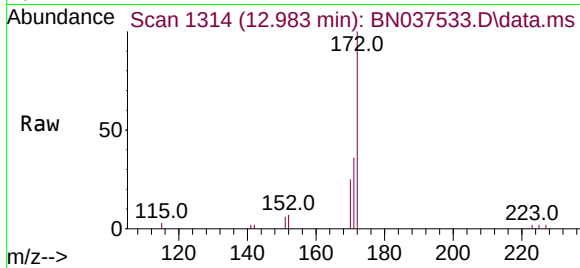




#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.983 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

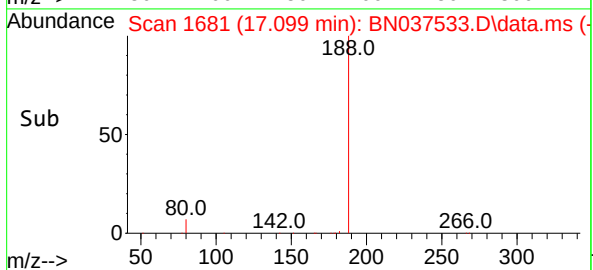
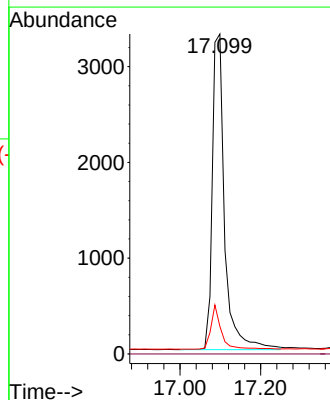
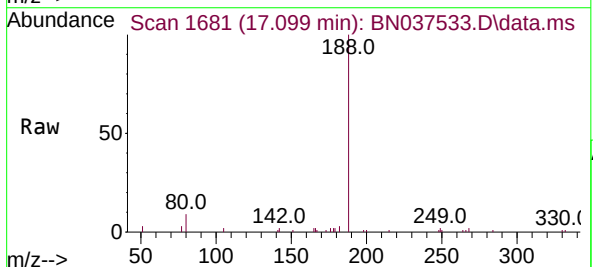
Instrument :
BNA_N
ClientSampleId :
PB168952BL

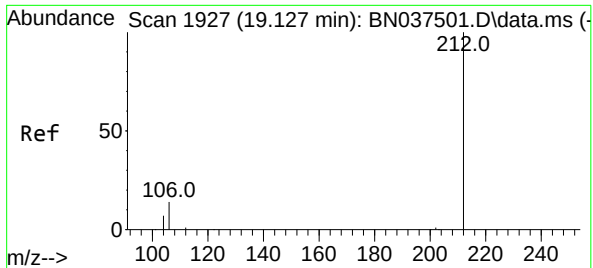
Tgt Ion:	172	Resp:	7692
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.4	44.2
170	24.5	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

Tgt Ion:	188	Resp:	6964
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.6	6.0	9.0

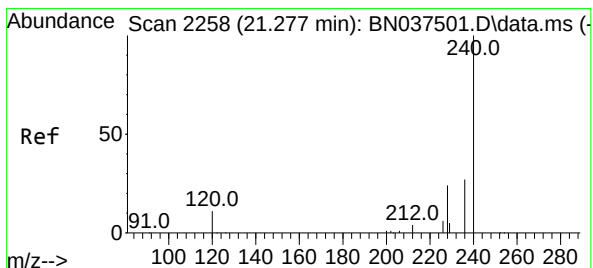
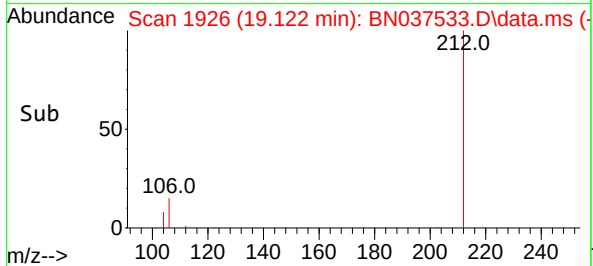
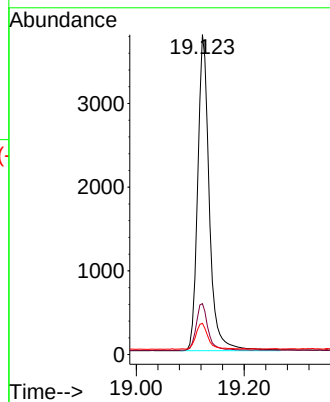
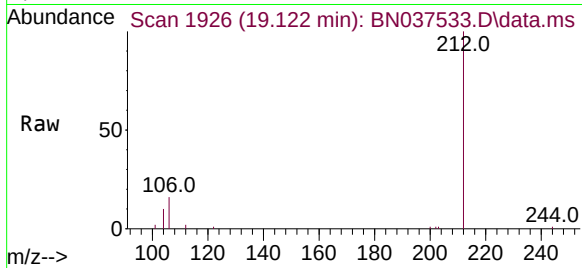




#27
Fluoranthene-d10
Concen: 0.305 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

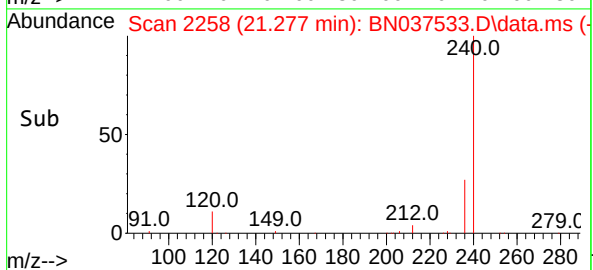
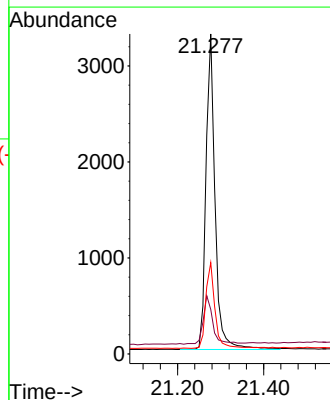
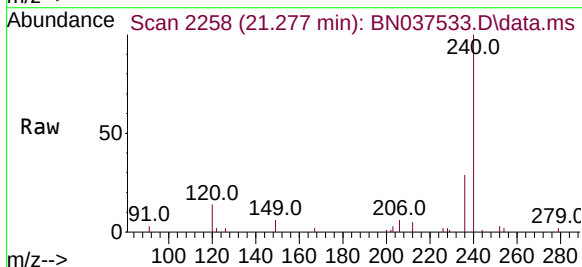
Instrument :
BNA_N
ClientSampleId :
PB168952BL

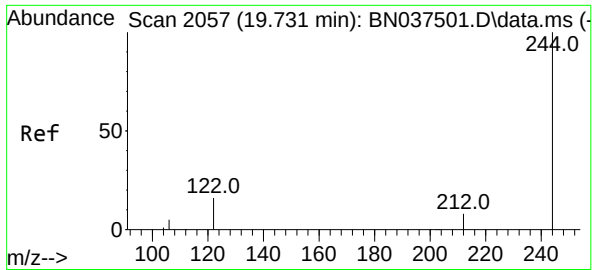
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.4
104	8.5	6.7	10.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.9	10.7	16.1
236	28.5	22.6	33.8

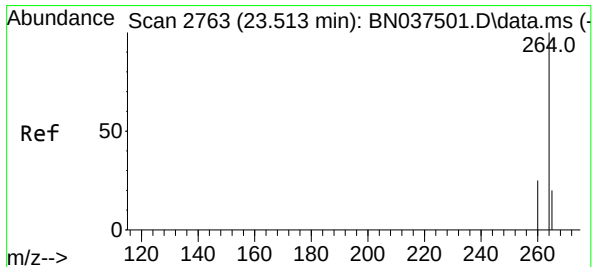
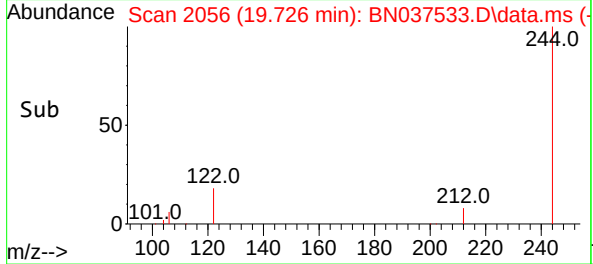
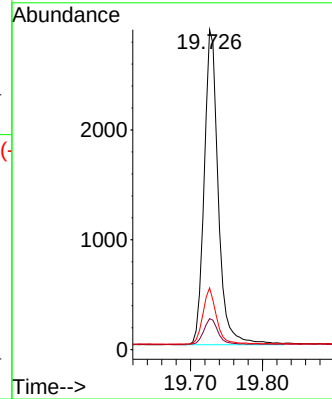
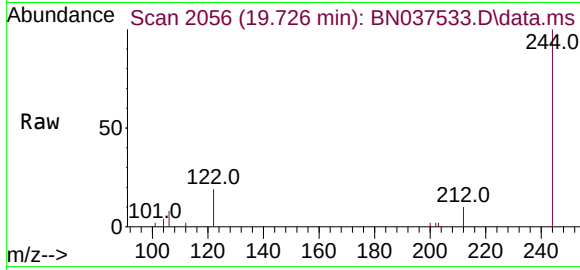




#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

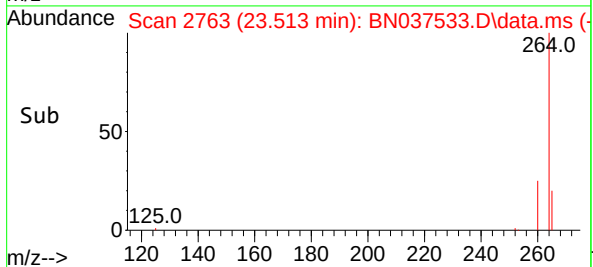
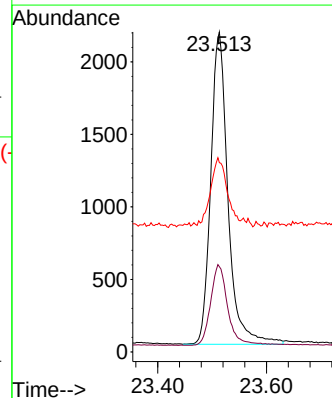
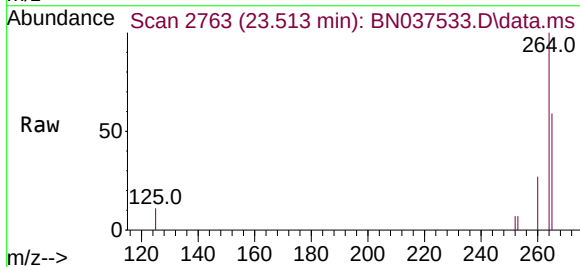
Instrument :
BNA_N
ClientSampleId :
PB168952BL

Tgt Ion:	244	Resp:	3896
Ion Ratio	Lower	Upper	
244	100		
212	9.7	7.4	11.2
122	19.3	13.6	20.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 2763
Delta R.T. 0.000 min
Lab File: BN037533.D
Acq: 22 Jul 2025 11:28

Tgt Ion:	264	Resp:	4734
Ion Ratio	Lower	Upper	
264	100		
260	26.6	21.2	31.8
265	59.1	40.4	60.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168952BS	SDG No.:	Q2643
Lab Sample ID:	PB168952BS	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
BN037544.D	1	07/21/25 09:10	07/22/25 18:05	PB168952

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	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		107%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2050	7.724				
1146-65-2	Naphthalene-d8	5020	10.498				
15067-26-2	Acenaphthene-d10	2410	14.355				
1517-22-2	Phenanthrene-d10	4510	17.086				
1719-03-5	Chrysene-d12	3060	21.268				
1520-96-3	Perylene-d12	2590	23.507				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
 Data File : BN037544.D
 Acq On : 22 Jul 2025 18:05
 Operator : RC/JU
 Sample : PB168952BS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168952BS

Quant Time: Jul 22 18:29:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

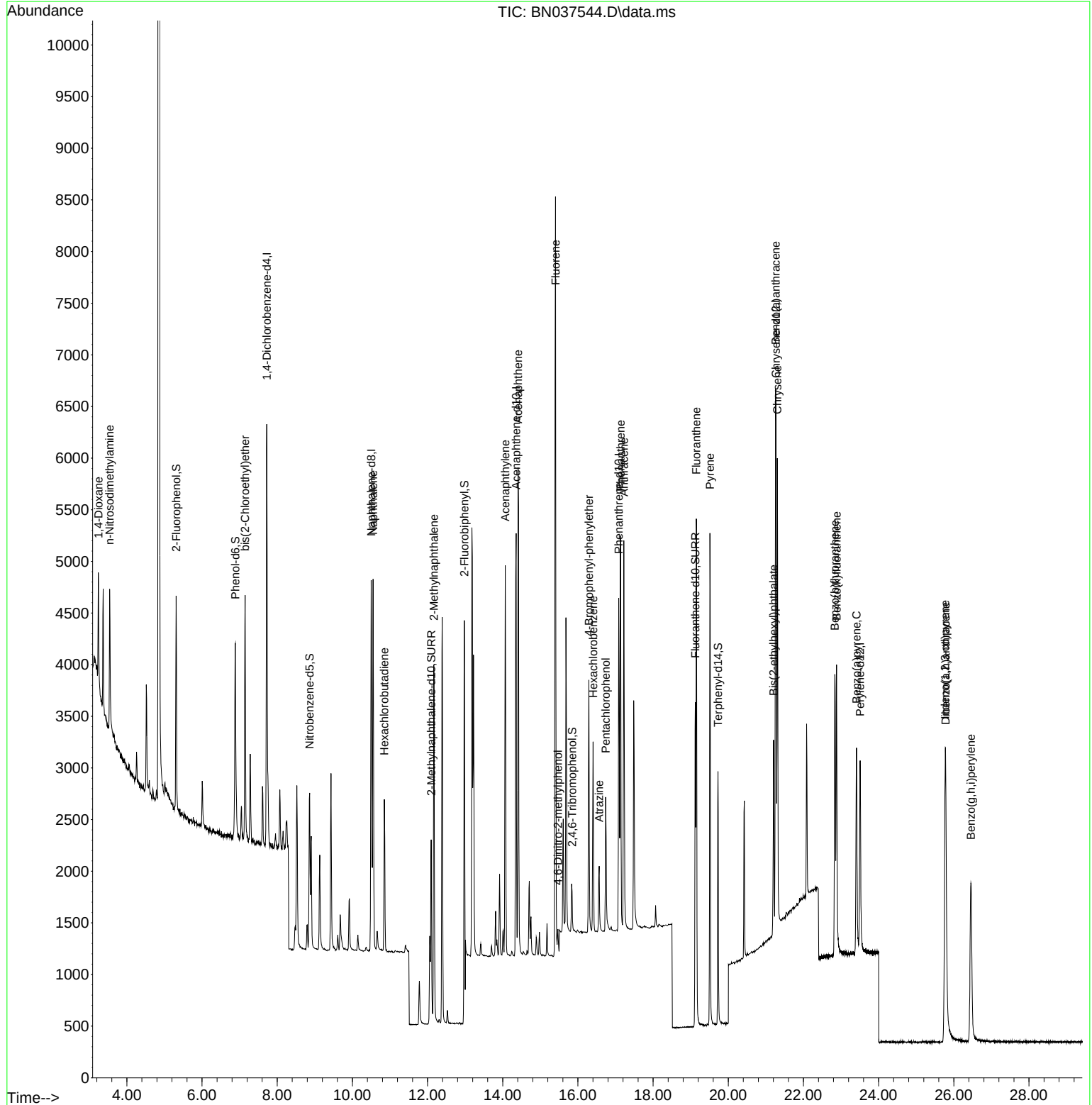
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2046	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5016	0.400	ng	#-0.01
13) Acenaphthene-d10	14.355	164	2405	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4507	0.400	ng	#-0.01
29) Chrysene-d12	21.268	240	3057	0.400	ng	# 0.00
35) Perylene-d12	23.507	264	2587	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1596	0.315	ng	0.00
5) Phenol-d6	6.886	99	1804	0.284	ng	0.00
8) Nitrobenzene-d5	8.864	82	1314	0.350	ng	0.00
11) 2-Methylnaphthalene-d10	12.095	152	2593	0.360	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	311	0.263	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	5340	0.427	ng	0.00
27) Fluoranthene-d10	19.122	212	3618	0.303	ng	0.00
31) Terphenyl-d14	19.726	244	2569	0.391	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.246	88	595	0.303	ng	# 74
3) n-Nitrosodimethylamine	3.543	42	907	0.367	ng	89
6) bis(2-Chloroethyl)ether	7.146	93	1778	0.337	ng	98
9) Naphthalene	10.551	128	4609	0.345	ng	100
10) Hexachlorobutadiene	10.850	225	1216	0.411	ng	# 98
12) 2-Methylnaphthalene	12.166	142	2616	0.297	ng	95
16) Acenaphthylene	14.067	152	4254	0.395	ng	98
17) Acenaphthene	14.409	154	2497	0.341	ng	96
18) Fluorene	15.403	166	3212	0.341	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	179	0.384	ng	90
21) 4-Bromophenyl-phenylether	16.292	248	978	0.339	ng	93
22) Hexachlorobenzene	16.404	284	1381	0.370	ng	97
23) Atrazine	16.565	200	628	0.312	ng	96
24) Pentachlorophenol	16.739	266	719	0.430	ng	99
25) Phenanthrene	17.136	178	4631	0.343	ng	99
26) Anthracene	17.223	178	4161	0.338	ng	100
28) Fluoranthene	19.150	202	4624	0.297	ng	98
30) Pyrene	19.512	202	4460	0.362	ng	100
32) Benzo(a)anthracene	21.259	228	3769	0.352	ng	98
33) Chrysene	21.304	228	4055	0.364	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	1538	0.319	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.770	276	4073	0.378	ng	96
37) Benzo(b)fluoranthene	22.835	252	3643	0.371	ng	96
38) Benzo(k)fluoranthene	22.879	252	3764	0.371	ng	95
39) Benzo(a)pyrene	23.411	252	3151	0.385	ng	94
40) Dibenzo(a,h)anthracene	25.785	278	3204	0.367	ng	93
41) Benzo(g,h,i)perylene	26.457	276	3511	0.389	ng	98

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

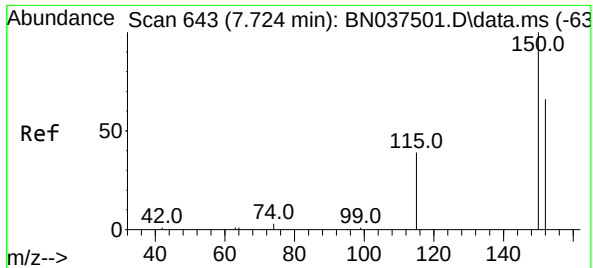
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
 Data File : BN037544.D
 Acq On : 22 Jul 2025 18:05
 Operator : RC/JU
 Sample : PB168952BS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168952BS

Quant Time: Jul 22 18:29:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration



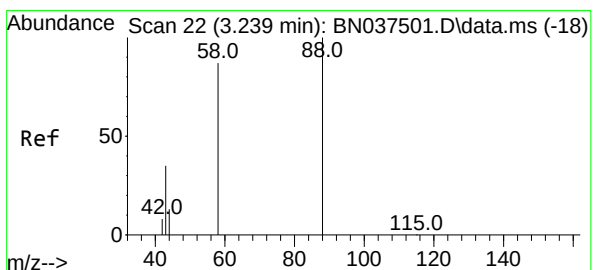
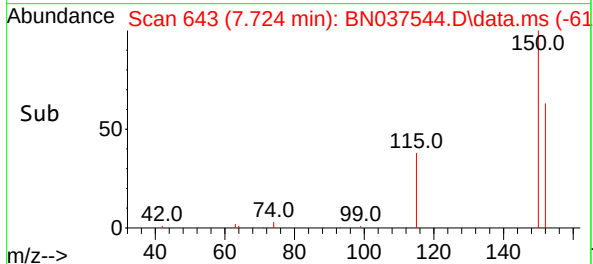
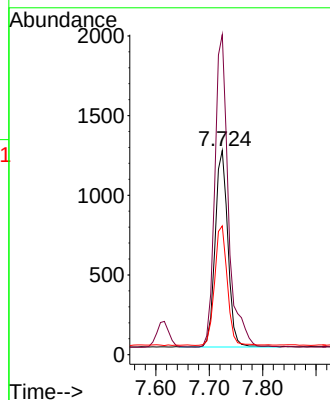
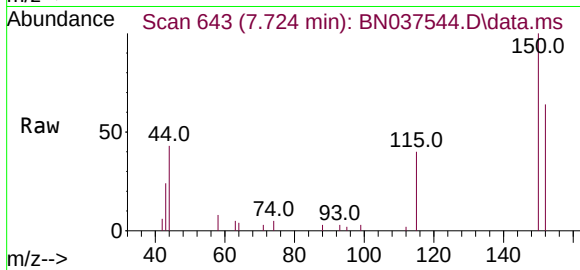
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17



#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN037544.D
 Acq: 22 Jul 2025 18:05

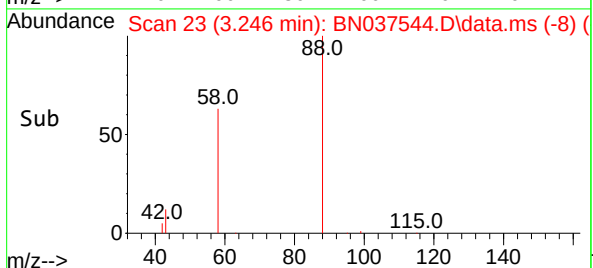
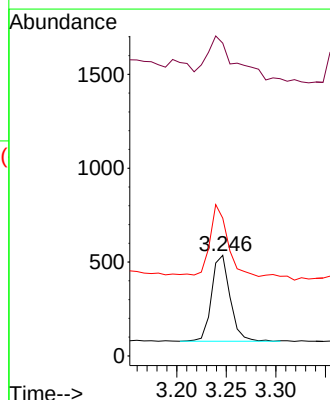
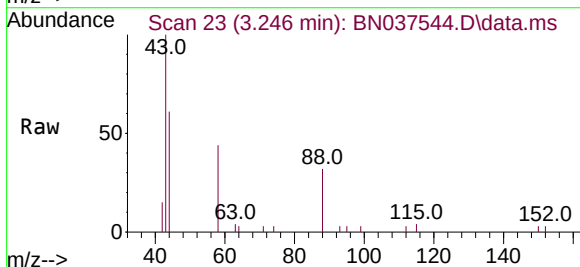
Instrument :
 BNA_N
 ClientSampleId :
 PB168952BS

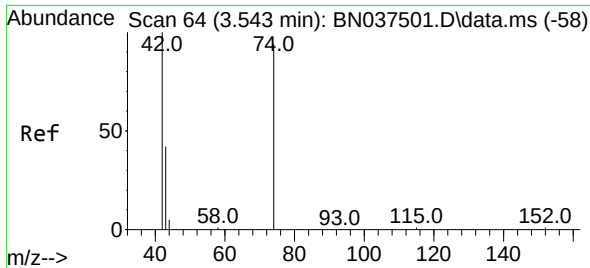
Tgt Ion:152 Resp: 2046
 Ion Ratio Lower Upper
 152 100
 150 156.8 119.8 179.8
 115 63.1 49.1 73.7



#2
 1,4-Dioxane
 Concen: 0.303 ng
 RT: 3.246 min Scan# 23
 Delta R.T. 0.007 min
 Lab File: BN037544.D
 Acq: 22 Jul 2025 18:05

Tgt Ion: 88 Resp: 595
 Ion Ratio Lower Upper
 88 100
 43 83.0 27.5 41.3#
 58 78.8 62.7 94.1

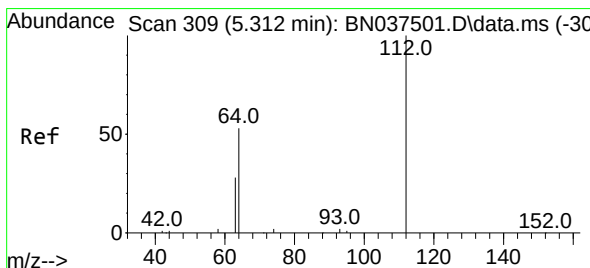
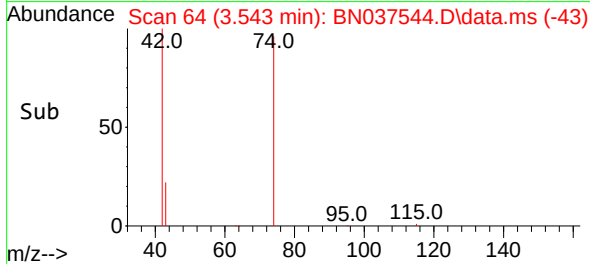
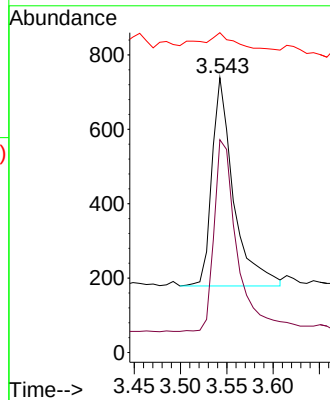
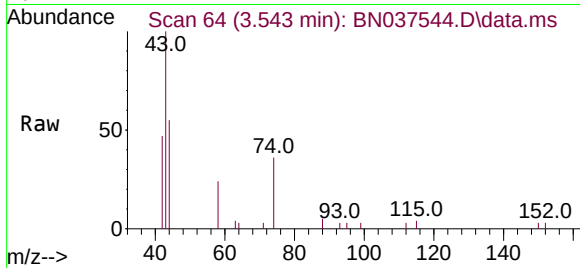




#3
n-Nitrosodimethylamine
Concen: 0.367 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

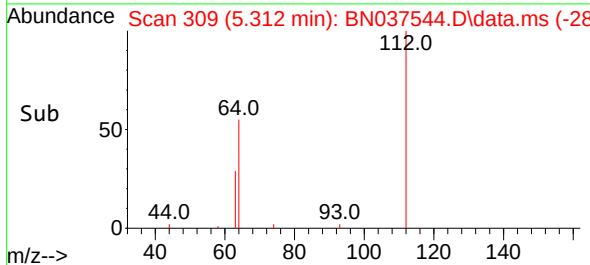
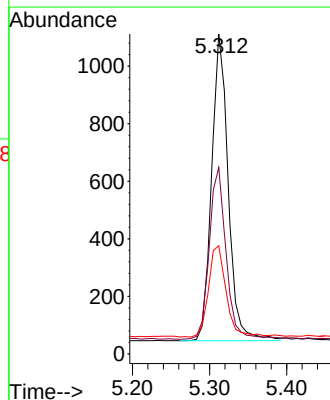
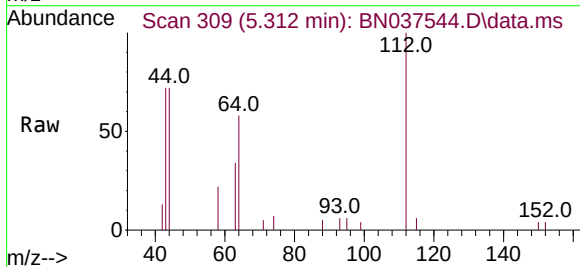
Instrument :
BNA_N
ClientSampleId :
PB168952BS

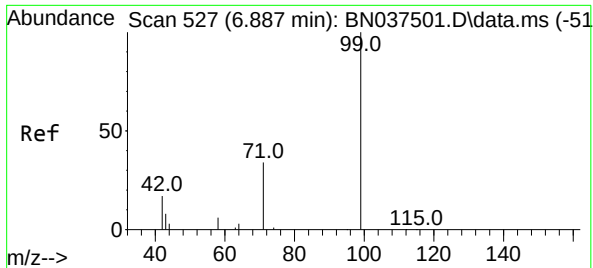
Tgt Ion: 42 Resp: 907
Ion Ratio Lower Upper
42 100
74 101.4 91.8 137.6
44 16.0 15.0 22.6



#4
2-Fluorophenol
Concen: 0.315 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion: 112 Resp: 1596
Ion Ratio Lower Upper
112 100
64 57.5 45.1 67.7
63 31.8 23.8 35.8

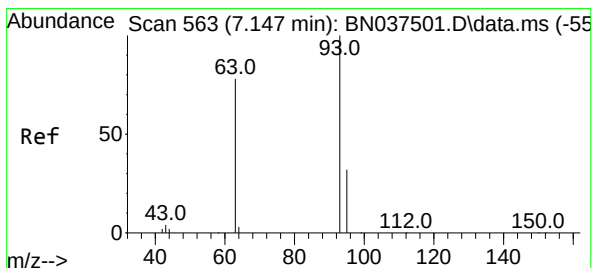
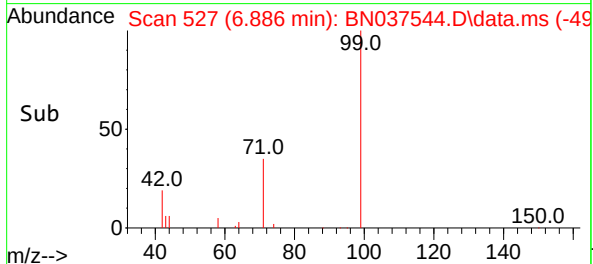
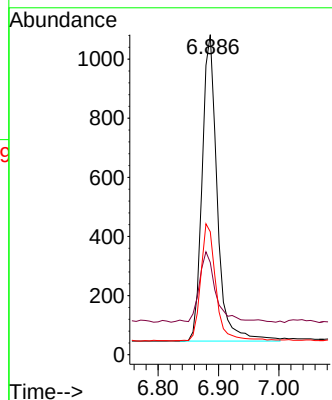
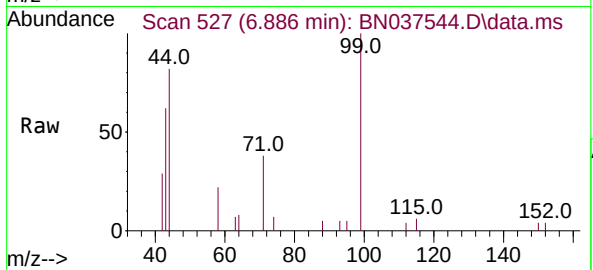




#5
Phenol-d6
Concen: 0.284 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

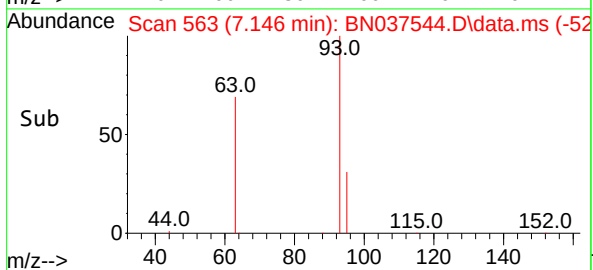
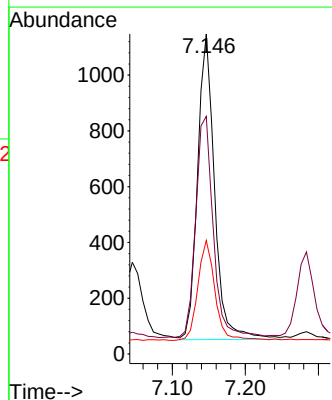
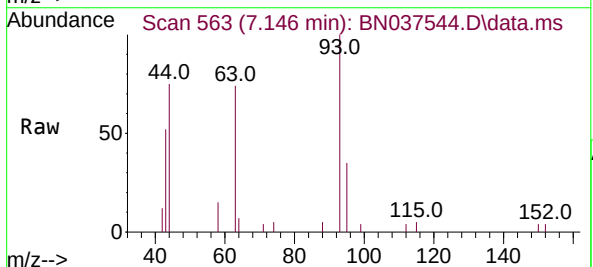
Instrument :
BNA_N
ClientSampleId :
PB168952BS

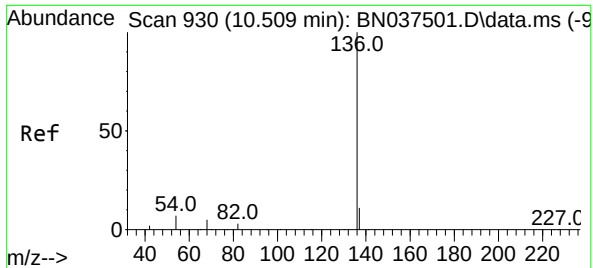
Tgt Ion:	99	Resp:	1804
Ion	Ratio	Lower	Upper
99	100		
42	24.9	17.1	25.7
71	38.5	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.337 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:	93	Resp:	1778
Ion	Ratio	Lower	Upper
93	100		
63	74.4	58.2	87.4
95	32.8	25.3	37.9

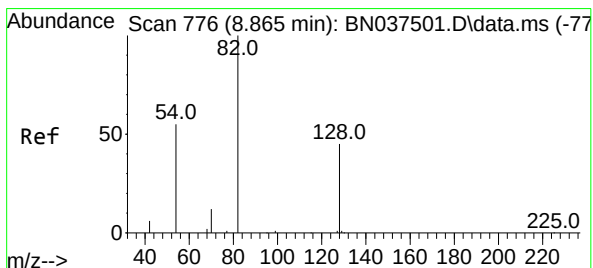
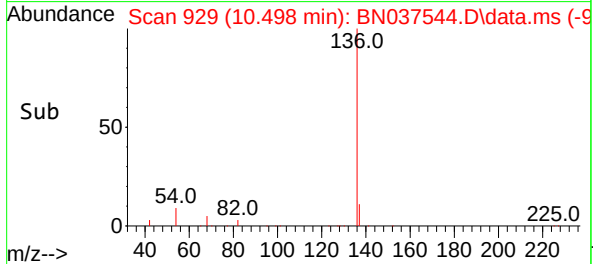
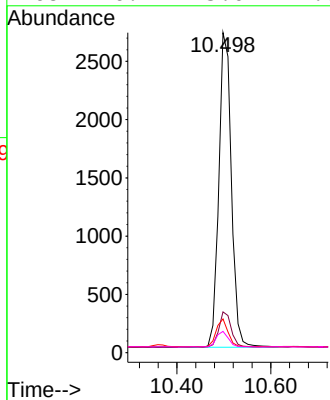
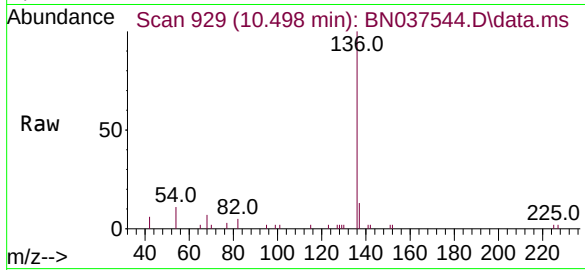




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

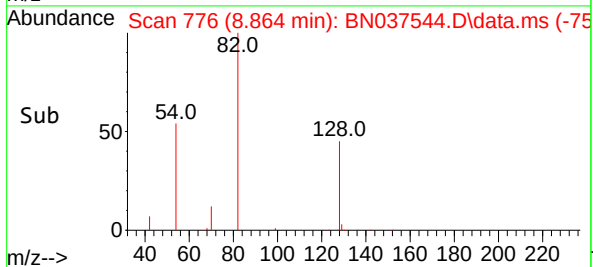
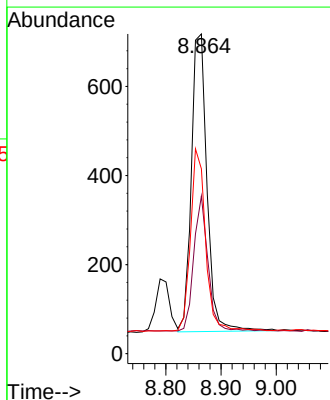
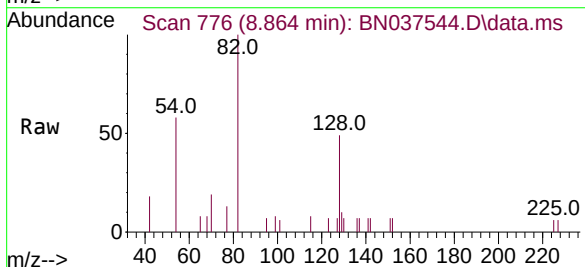
Instrument :
BNA_N
ClientSampleId :
PB168952BS

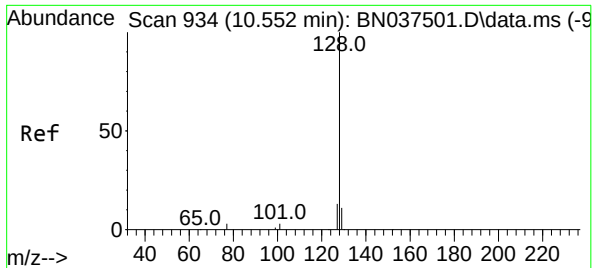
Tgt Ion:136	Resp:	5016
Ion	Ratio	Lower Upper
136	100	
137	12.7	9.8 14.8
54	10.6	6.6 9.8#
68	6.7	5.0 7.6



#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion: 82	Resp:	1314
Ion	Ratio	Lower Upper
82	100	
128	49.3	37.5 56.3
54	57.8	45.3 67.9

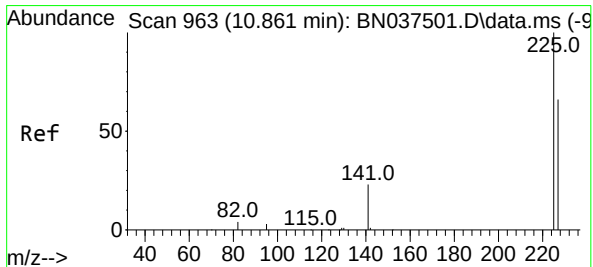
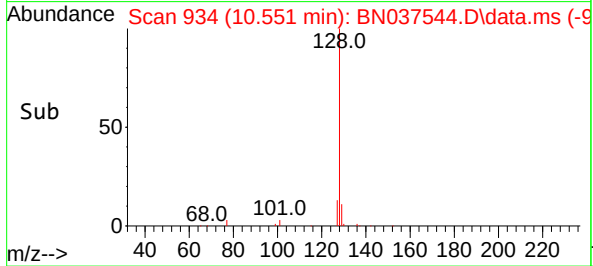
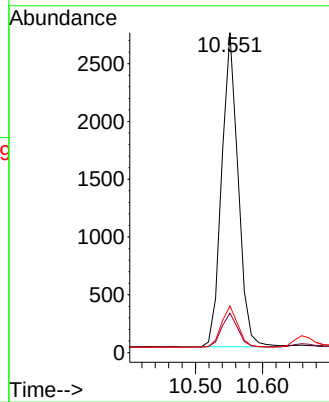
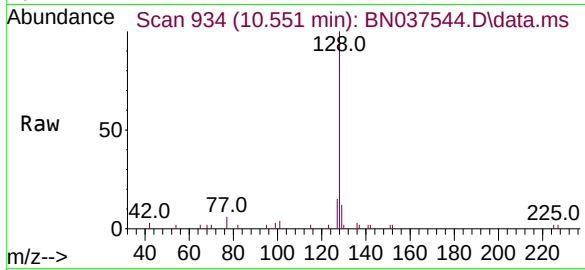




#9
Naphthalene
Concen: 0.345 ng
RT: 10.551 min Scan# 934
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

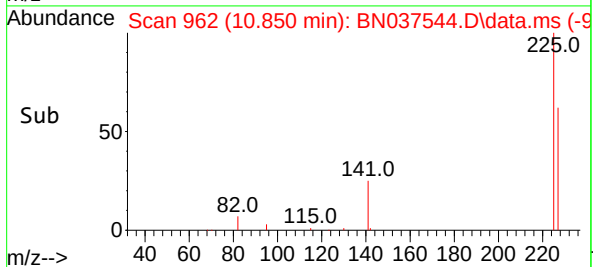
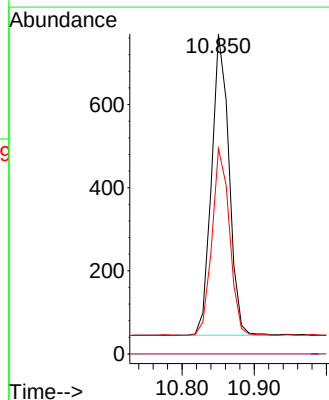
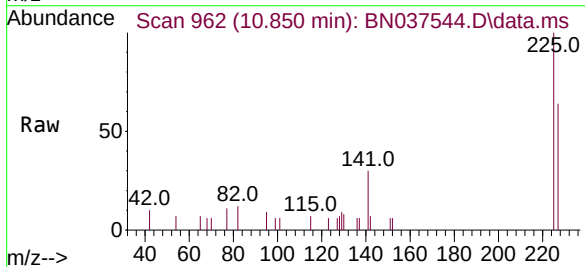
Instrument :
BNA_N
ClientSampleId :
PB168952BS

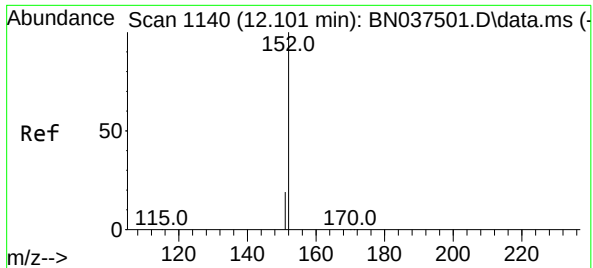
Tgt Ion:	128	Resp:	4609
Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.7	14.5
127	14.6	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:	225	Resp:	1216
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.3	51.0	76.4

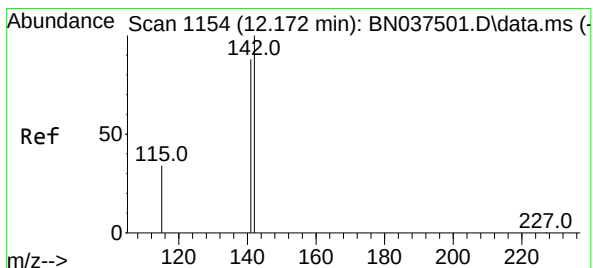
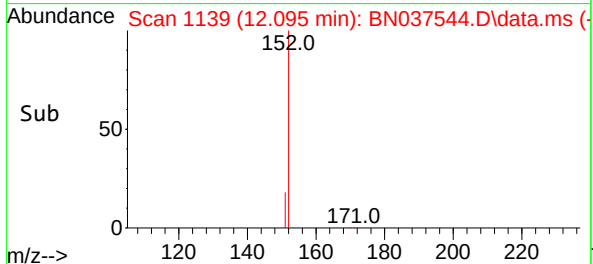
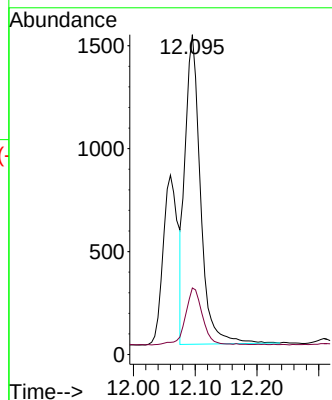
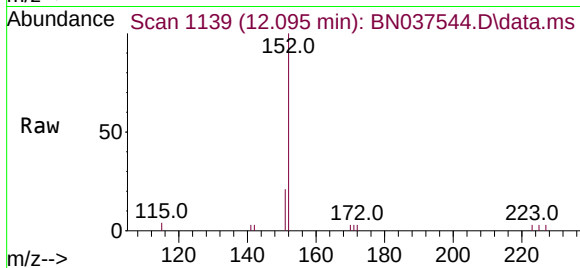




#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.095 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

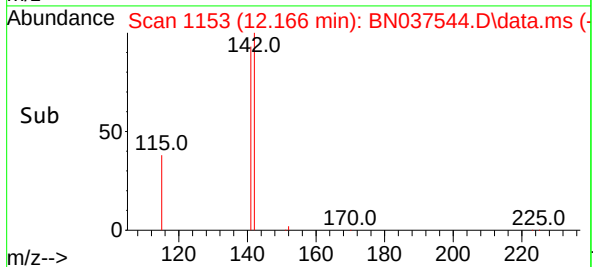
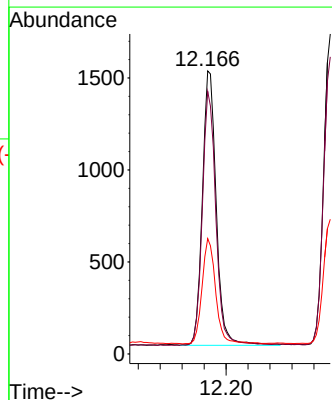
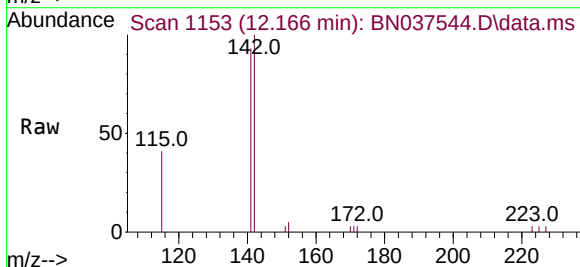
Instrument :
BNA_N
ClientSampleId :
PB168952BS

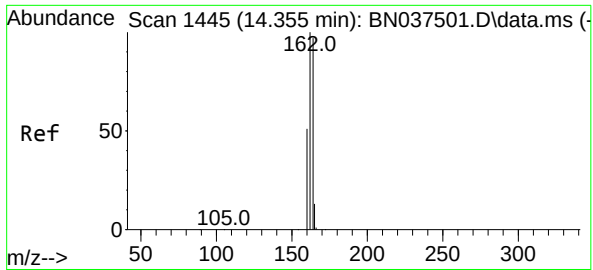
Tgt Ion:152 Resp: 2593
Ion Ratio Lower Upper
152 100
151 20.4 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.297 ng
RT: 12.166 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:142 Resp: 2616
Ion Ratio Lower Upper
142 100
141 92.7 71.0 106.4
115 40.7 29.0 43.4

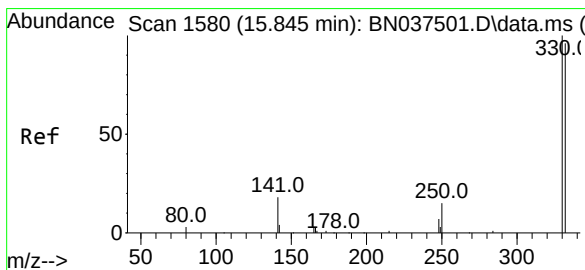
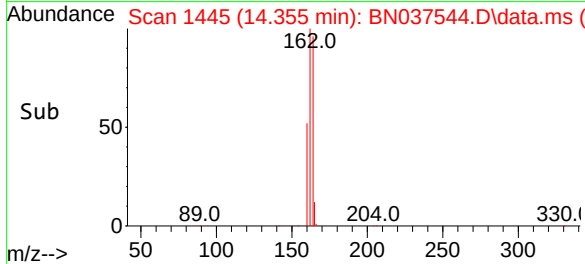
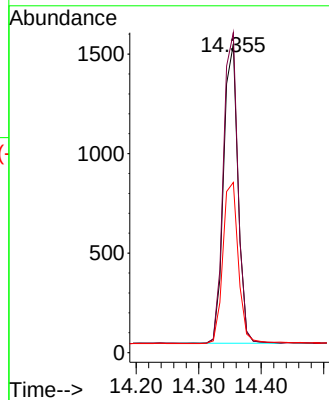
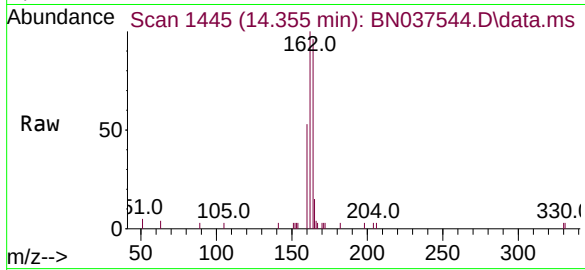




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

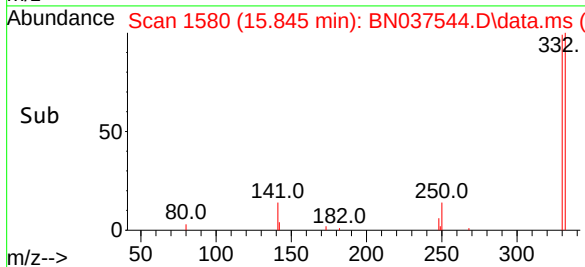
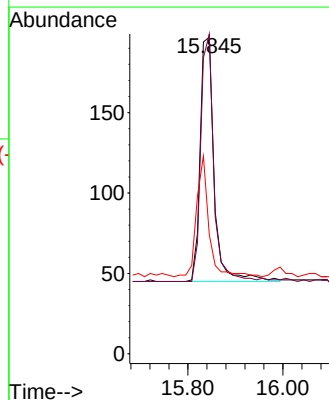
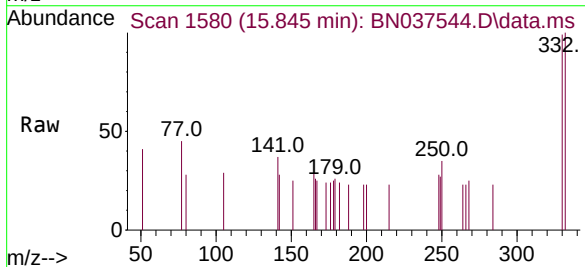
Instrument :
BNA_N
ClientSampleId :
PB168952BS

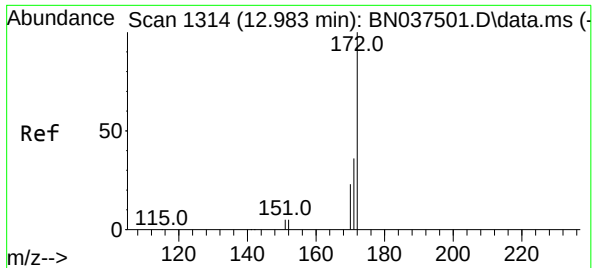
Tgt Ion:	164	Resp:	2405
Ion Ratio	Lower	Upper	
164	100		
162	103.7	82.0	123.0
160	55.2	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.263 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:	330	Resp:	311
Ion Ratio	Lower	Upper	
330	100		
332	93.9	76.1	114.1
141	43.4	33.4	50.0

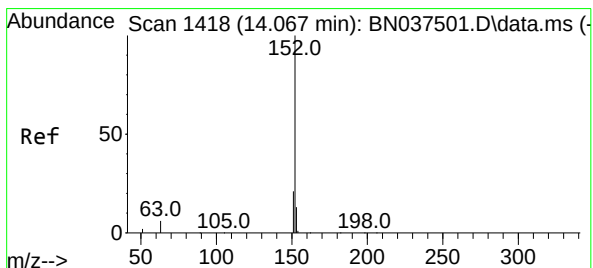
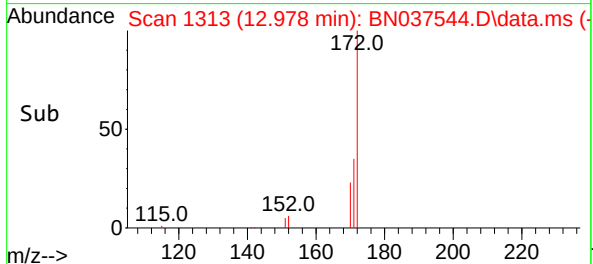
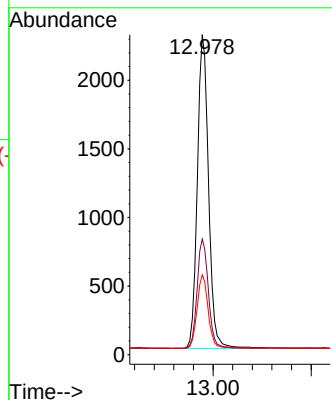
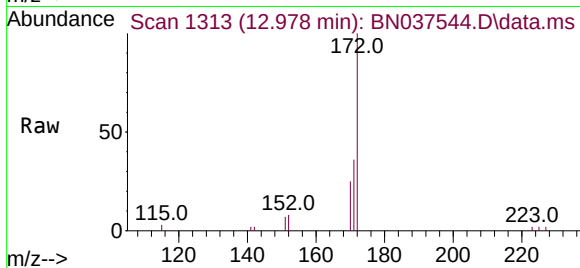




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

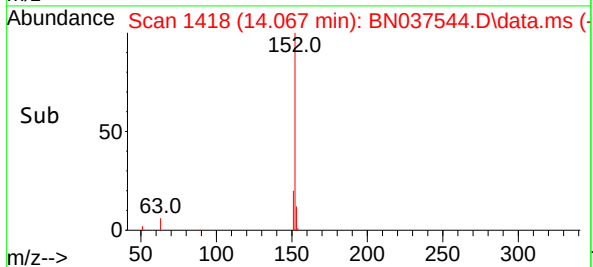
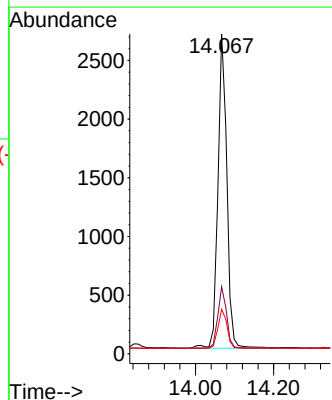
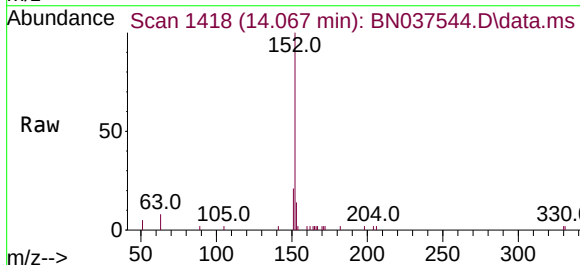
Instrument :
BNA_N
ClientSampleId :
PB168952BS

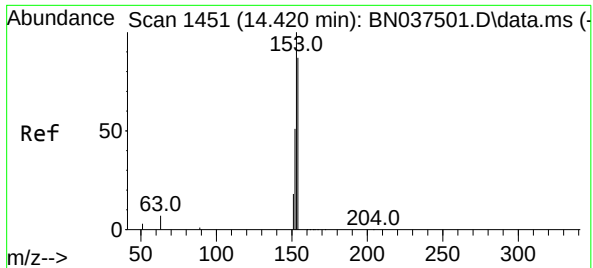
Tgt Ion:	172	Resp:	5340
Ion Ratio	Lower	Upper	
172	100		
171	36.1	29.4	44.2
170	24.9	19.4	29.0



#16
Acenaphthylene
Concen: 0.395 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:	152	Resp:	4254
Ion Ratio	Lower	Upper	
152	100		
151	19.2	15.9	23.9
153	12.6	10.7	16.1

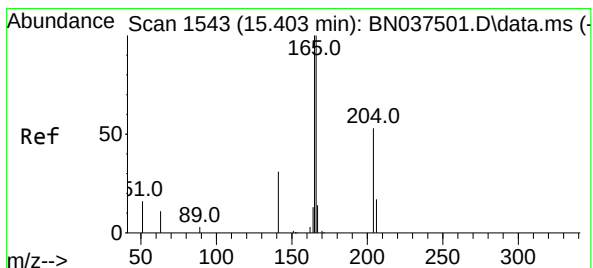
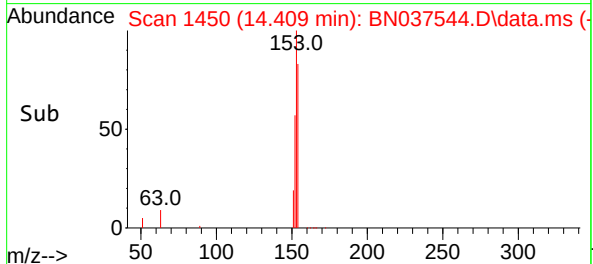
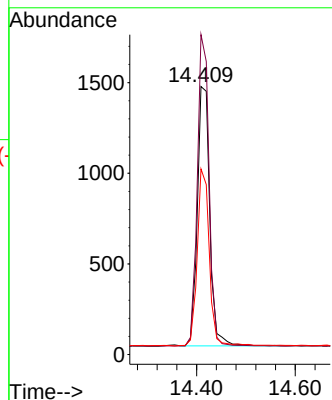
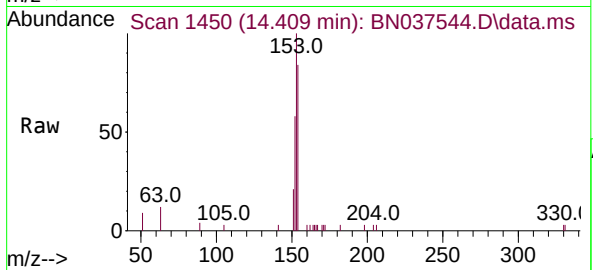




#17
Acenaphthene
Concen: 0.341 ng
RT: 14.409 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

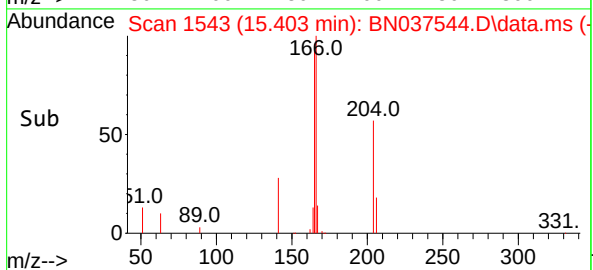
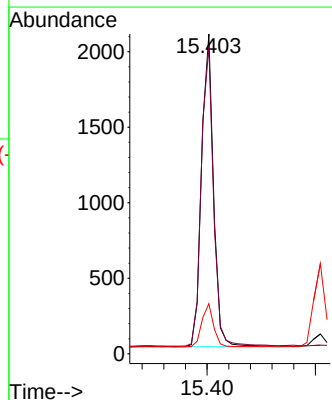
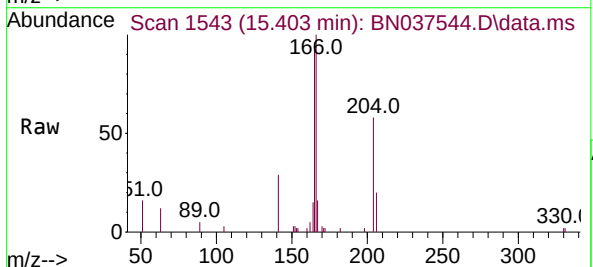
Instrument :
BNA_N
ClientSampleId :
PB168952BS

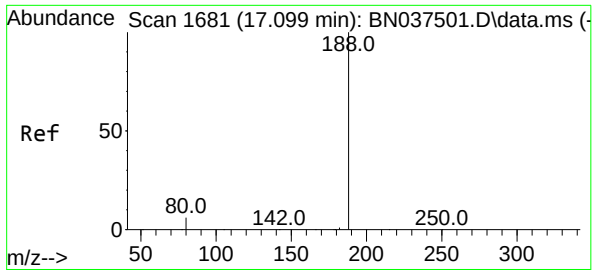
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.7	89.2	133.8
152	66.7	48.0	72.0



#18
Fluorene
Concen: 0.341 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.1	117.1
167	13.4	11.0	16.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1681

Delta R.T. -0.013 min

Lab File: BN037544.D

Acq: 22 Jul 2025 18:05

Instrument :

BNA_N

ClientSampleId :

PB168952BS

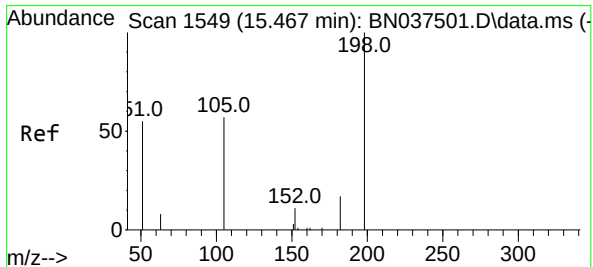
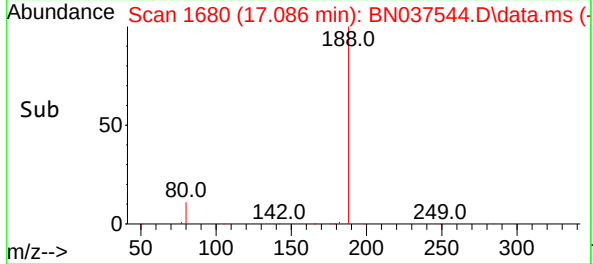
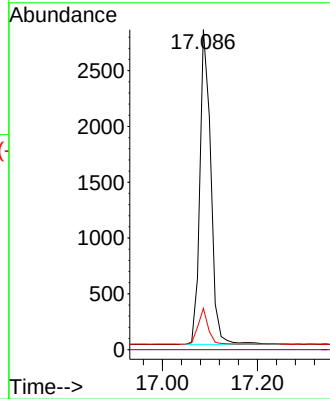
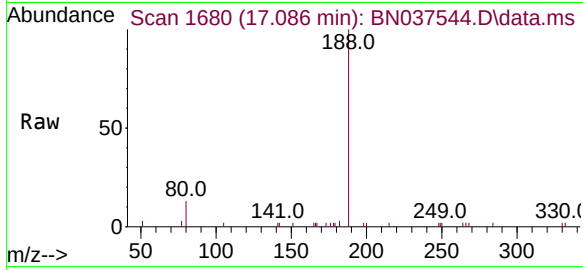
Tgt Ion:188 Resp: 4507

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 6.0 9.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.384 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037544.D

Acq: 22 Jul 2025 18:05

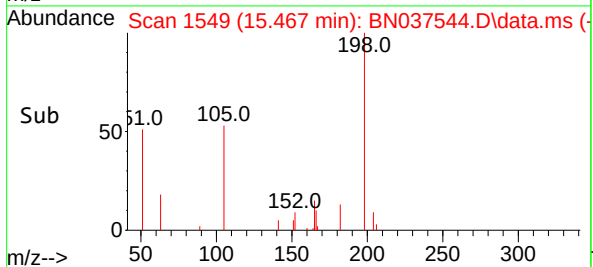
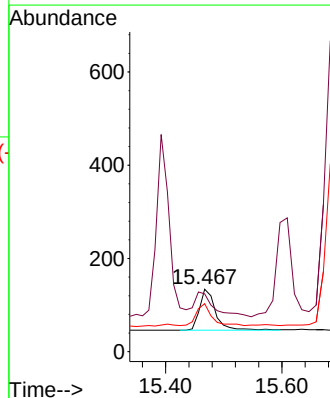
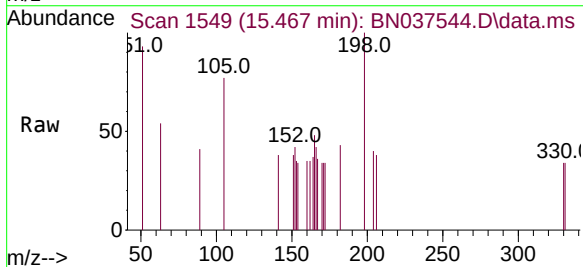
Tgt Ion:198 Resp: 179

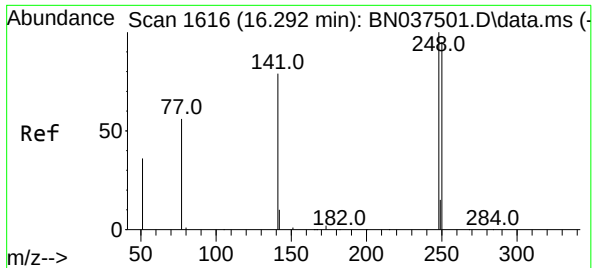
Ion Ratio Lower Upper

198 100

51 92.5 88.5 132.7

105 76.9 61.2 91.8

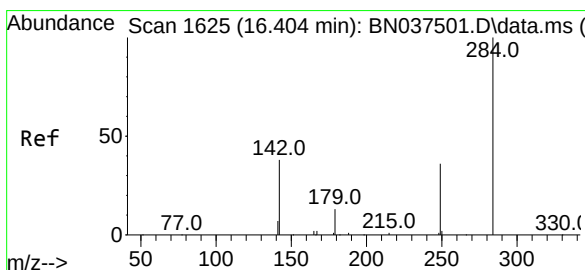
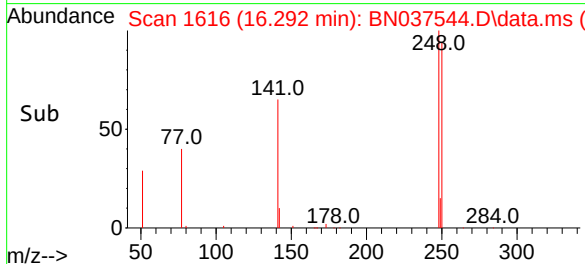
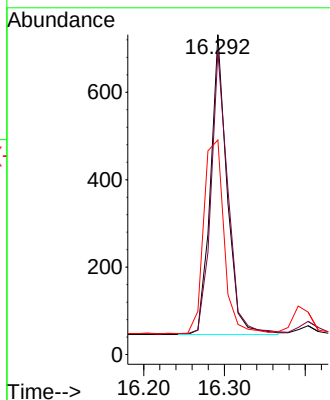
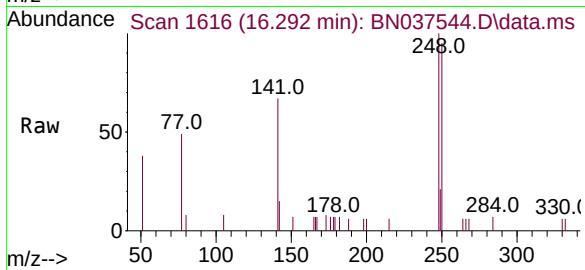




#21
4-Bromophenyl-phenylether
Concen: 0.339 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

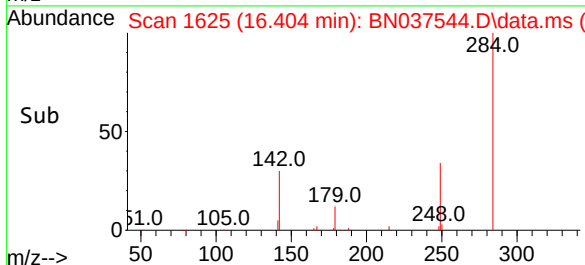
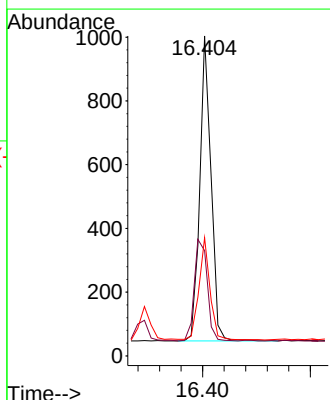
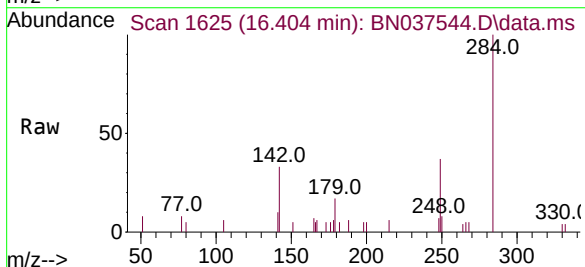
Instrument :
BNA_N
ClientSampleId :
PB168952BS

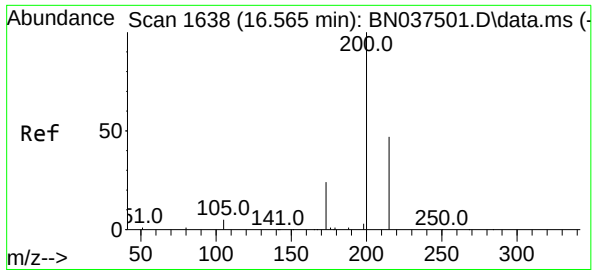
Tgt Ion:248 Resp: 978
Ion Ratio Lower Upper
248 100
250 94.7 76.2 114.2
141 67.1 63.9 95.9



#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:284 Resp: 1381
Ion Ratio Lower Upper
284 100
142 38.4 28.9 43.3
249 33.5 25.8 38.6

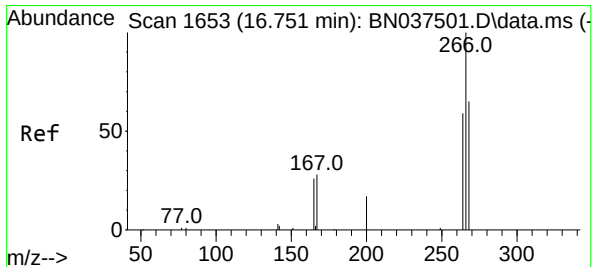
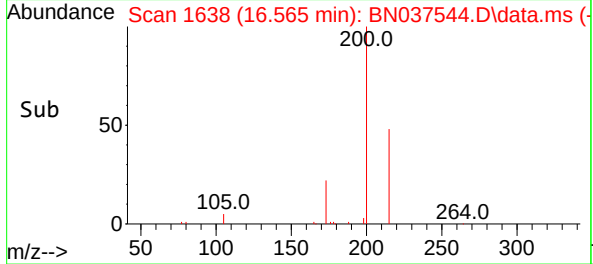
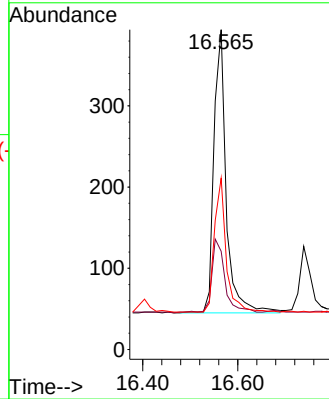
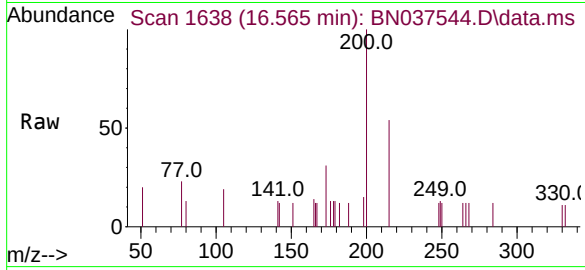




#23
Atrazine
Concen: 0.312 ng
RT: 16.565 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

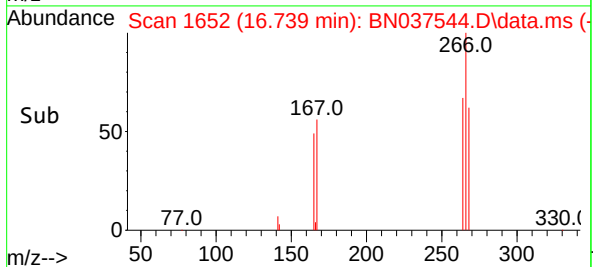
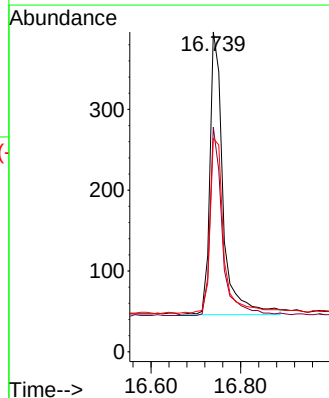
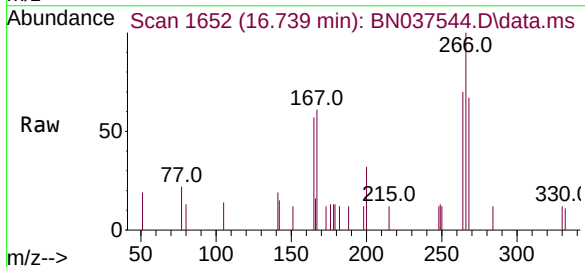
Instrument :
BNA_N
ClientSampleId :
PB168952BS

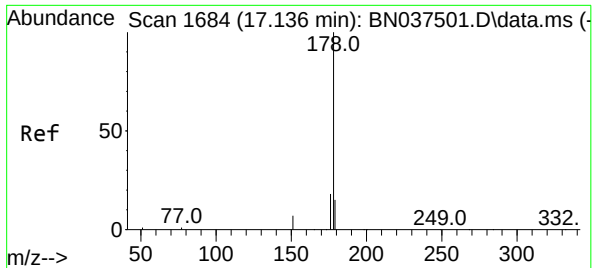
Tgt Ion:	200	Resp:	628
Ion Ratio	Lower	Upper	
200	100		
173	30.7	23.2	34.8
215	53.6	40.2	60.4



#24
Pentachlorophenol
Concen: 0.430 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.013 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:	266	Resp:	719
Ion Ratio	Lower	Upper	
266	100		
264	62.2	49.3	73.9
268	63.6	51.6	77.4

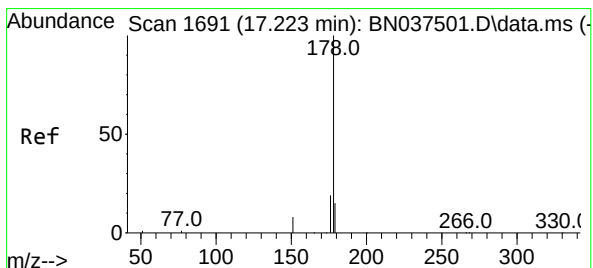
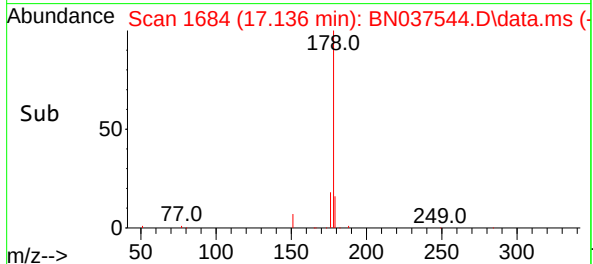
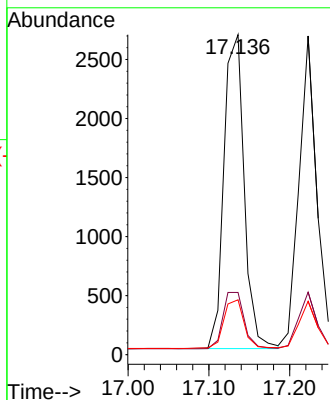
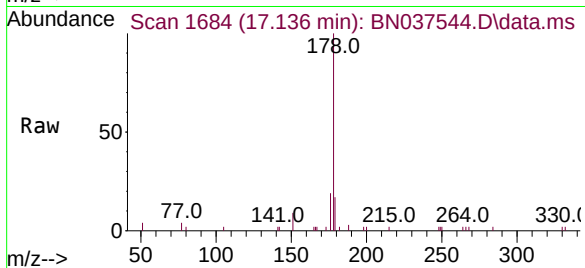




#25
Phenanthrene
Concen: 0.343 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

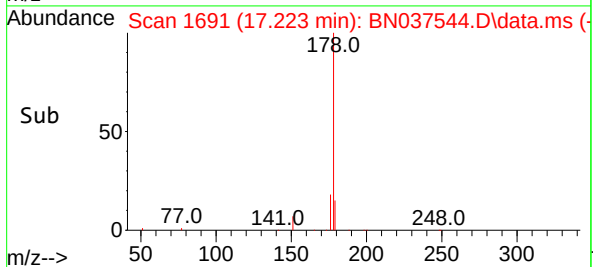
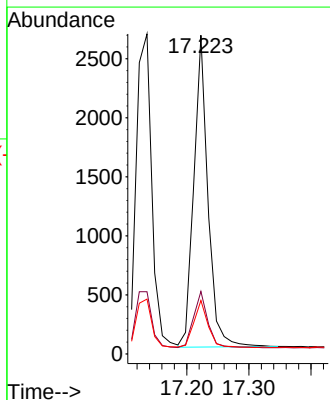
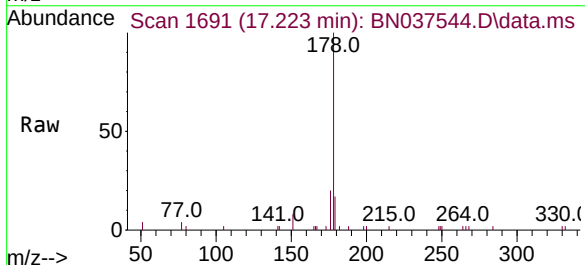
Instrument :
BNA_N
ClientSampleId :
PB168952BS

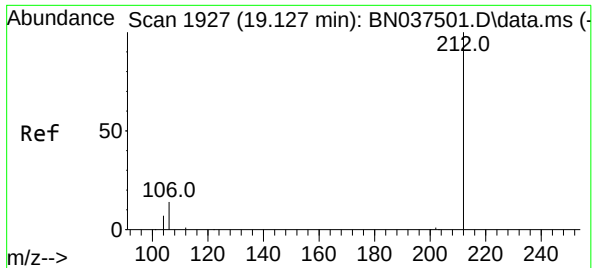
Tgt Ion	178	176	179
Resp:	4631		
Ion Ratio	100	18.9	15.8
Lower		15.0	12.2
Upper		22.6	18.2



#26
Anthracene
Concen: 0.338 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion	178	176	179
Resp:	4161		
Ion Ratio	100	18.4	15.3
Lower		14.7	12.3
Upper		22.1	18.5

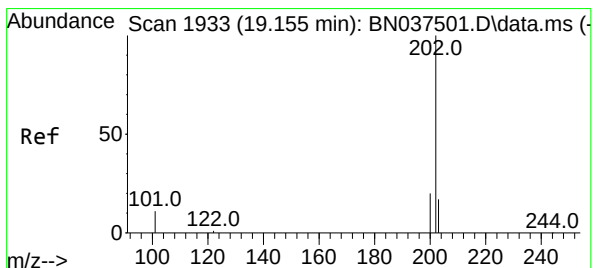
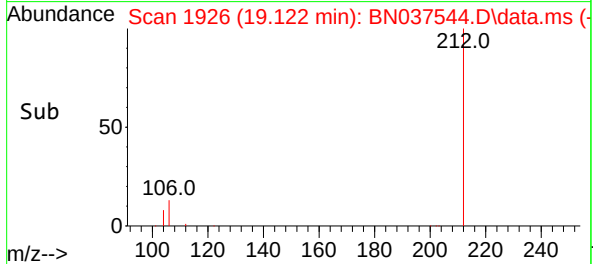
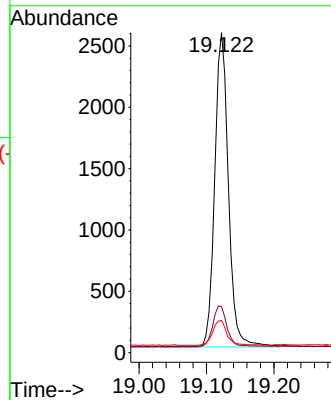
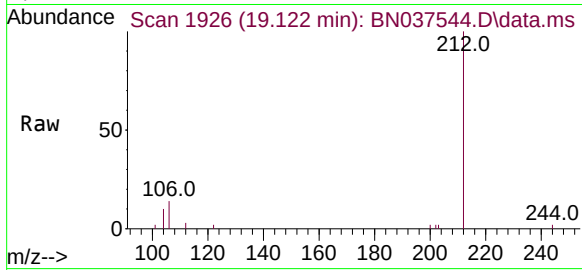




#27
Fluoranthene-d10
Concen: 0.303 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

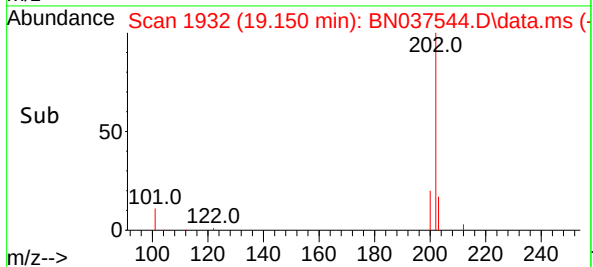
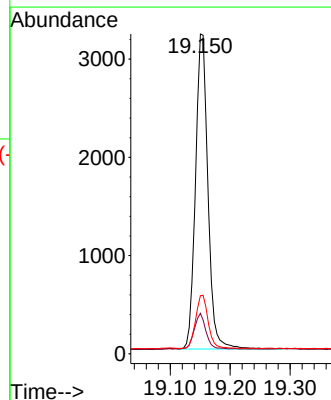
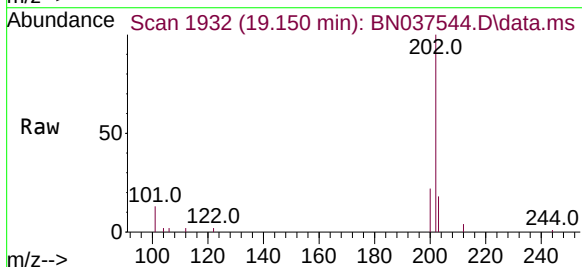
Instrument :
BNA_N
ClientSampleId :
PB168952BS

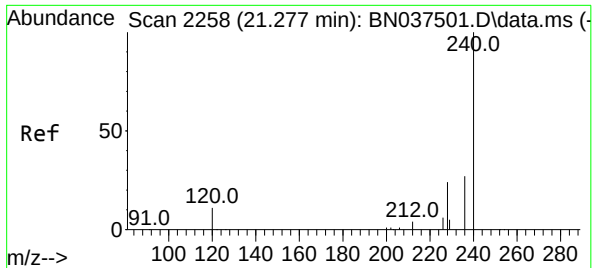
Tgt Ion:	212	Resp:	3618
Ion	Ratio	Lower	Upper
212	100		
106	13.5	12.2	18.4
104	8.4	6.7	10.1



#28
Fluoranthene
Concen: 0.297 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:	202	Resp:	4624
Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.8	14.6
203	16.8	13.6	20.4

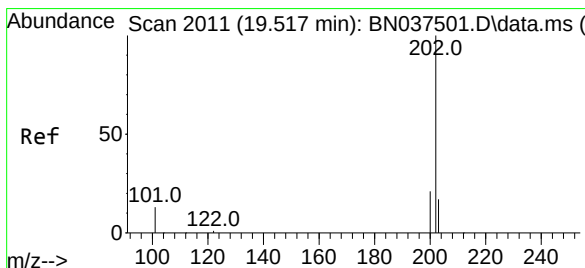
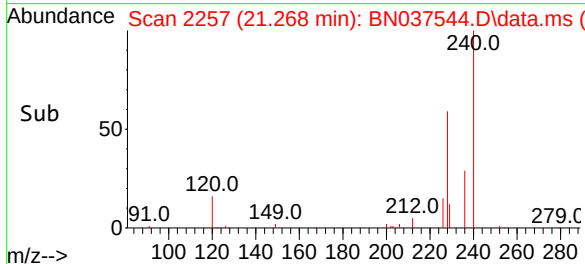
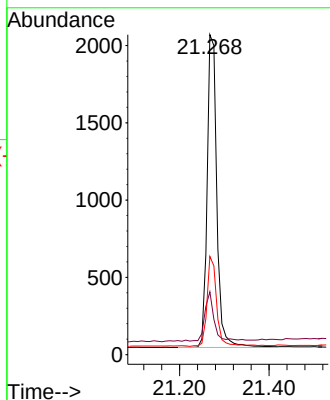
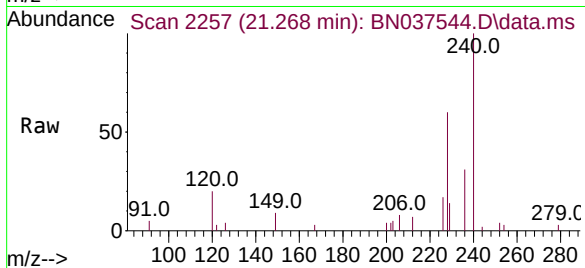




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

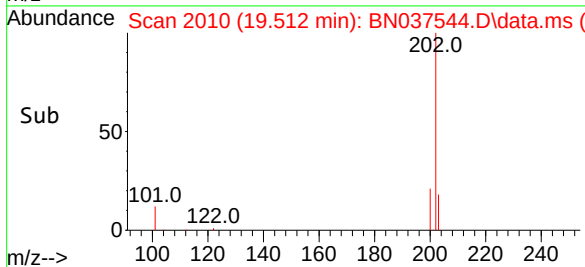
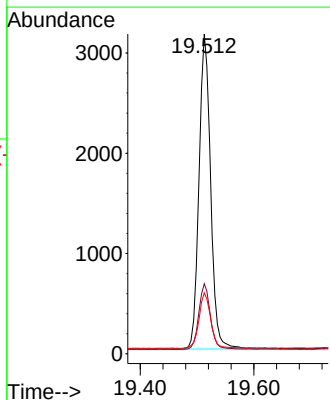
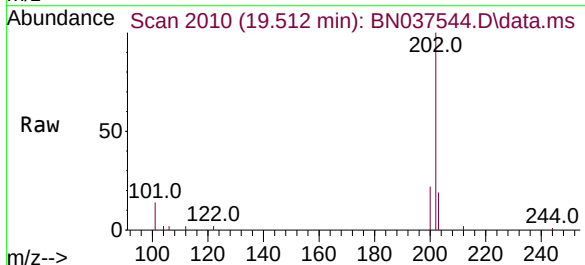
Instrument :
BNA_N
ClientSampleId :
PB168952BS

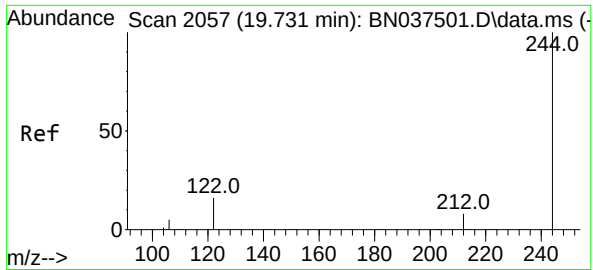
Tgt Ion:240 Resp: 3057
Ion Ratio Lower Upper
240 100
120 19.7 10.7 16.1#
236 30.7 22.6 33.8



#30
Pyrene
Concen: 0.362 ng
RT: 19.512 min Scan# 2010
Delta R.T. -0.005 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:202 Resp: 4460
Ion Ratio Lower Upper
202 100
200 20.6 16.5 24.7
203 17.8 14.3 21.5

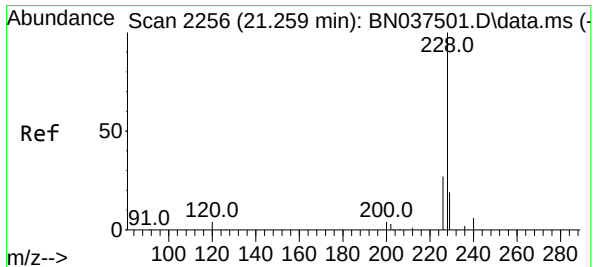
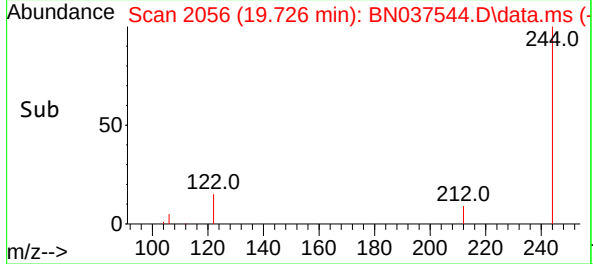
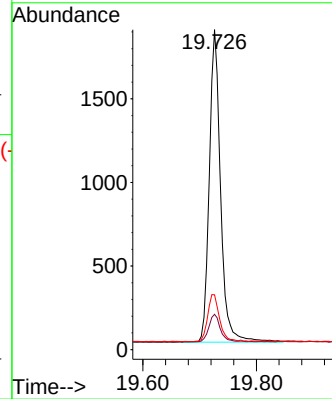
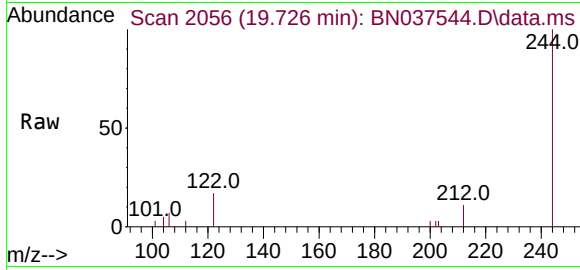




#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

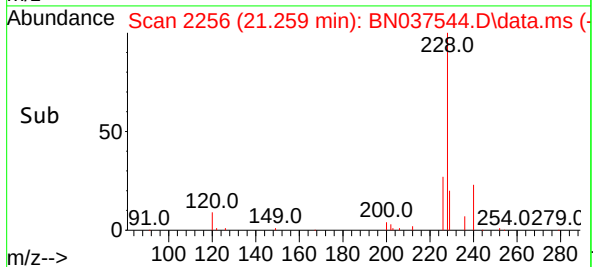
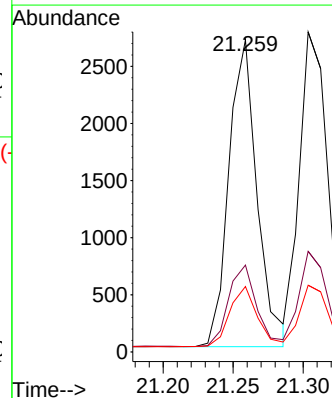
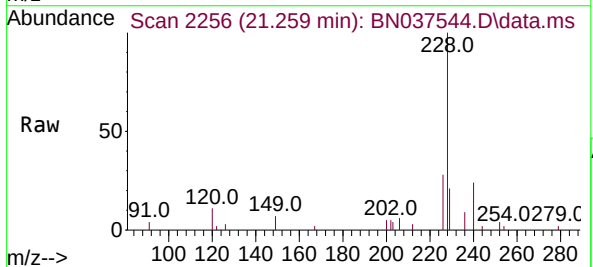
Instrument :
BNA_N
ClientSampleId :
PB168952BS

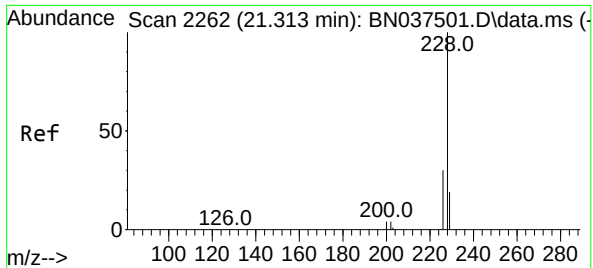
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	7.4	11.2
122	17.1	13.6	20.4



#32
Benzo(a)anthracene
Concen: 0.352 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.9	32.9
229	21.0	15.8	23.8

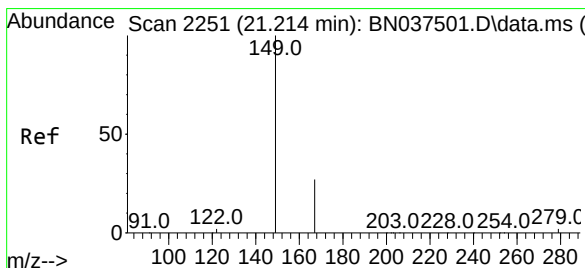
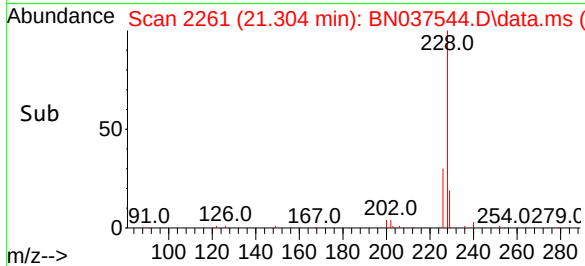
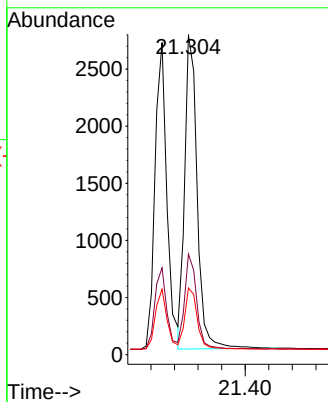
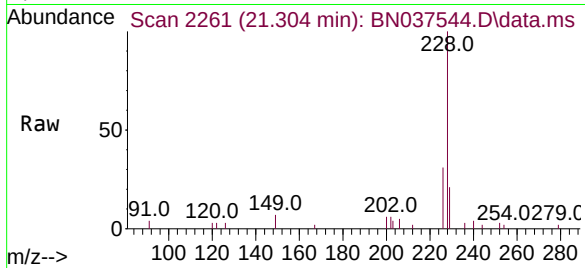




#33
Chrysene
Concen: 0.364 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

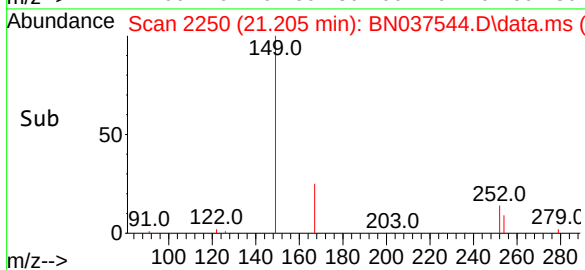
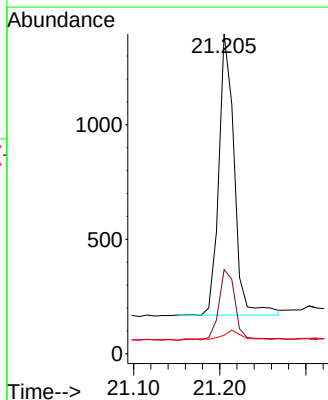
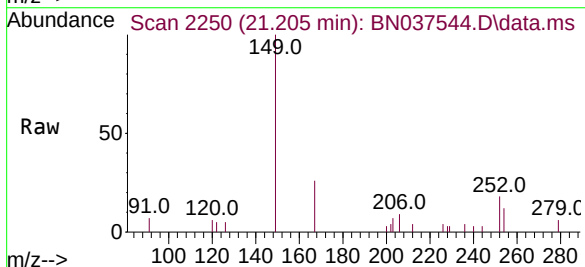
Instrument :
BNA_N
ClientSampleId :
PB168952BS

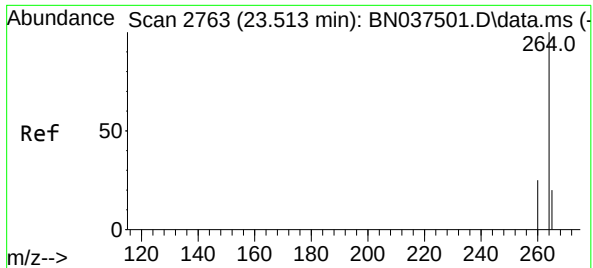
Tgt Ion:	228	Resp:	4055
Ion Ratio	Lower	Upper	
228	100		
226	31.4	24.2	36.4
229	20.8	16.1	24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.319 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:	149	Resp:	1538
Ion Ratio	Lower	Upper	
149	100		
167	27.1	21.8	32.8
279	4.9	3.0	4.4

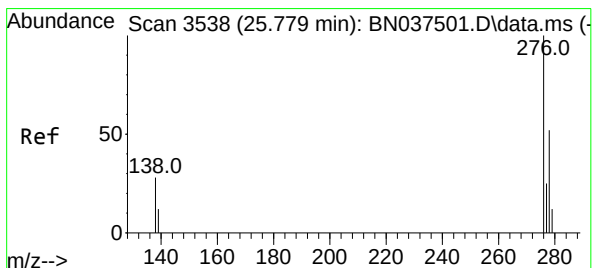
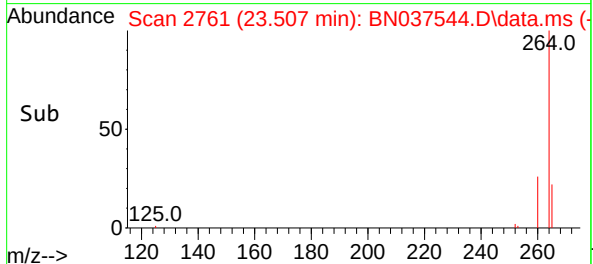
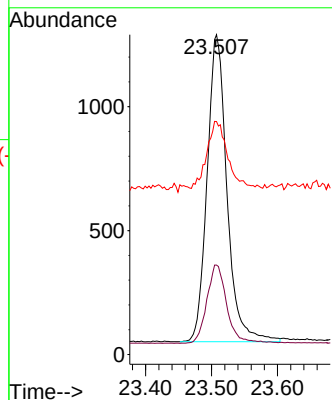
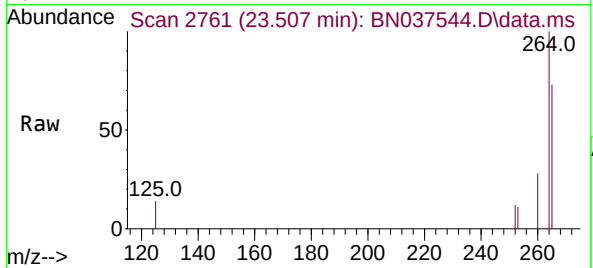




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.507 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

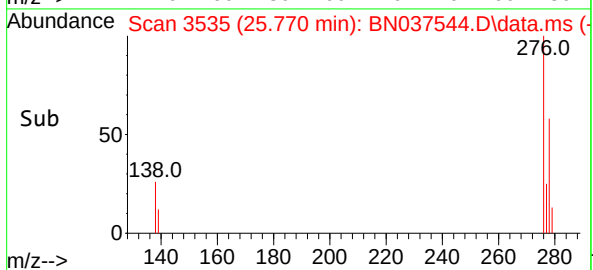
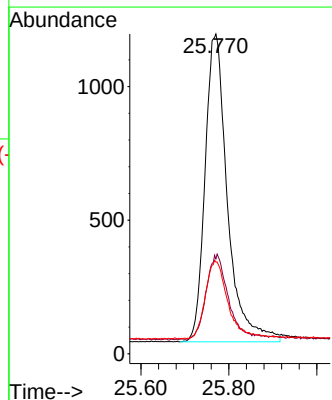
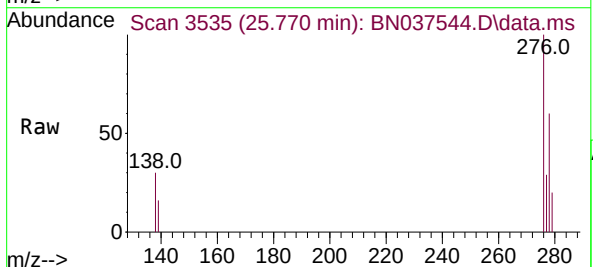
Instrument :
BNA_N
ClientSampleId :
PB168952BS

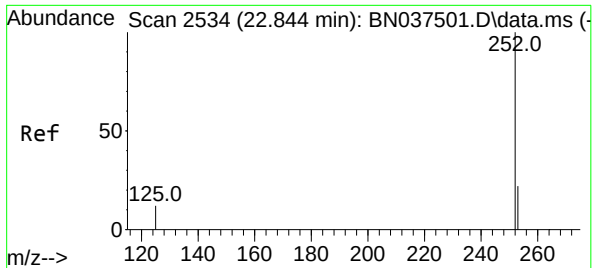
Tgt Ion:	264	Resp:	2587
Ion Ratio	Lower	Upper	
264	100		
260	28.0	21.2	31.8
265	72.8	40.4	60.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.378 ng
RT: 25.770 min Scan# 3535
Delta R.T. -0.009 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:	276	Resp:	4073
Ion Ratio	Lower	Upper	
276	100		
138	26.9	24.0	36.0
277	25.1	20.5	30.7

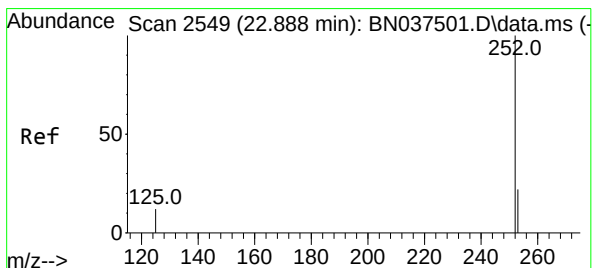
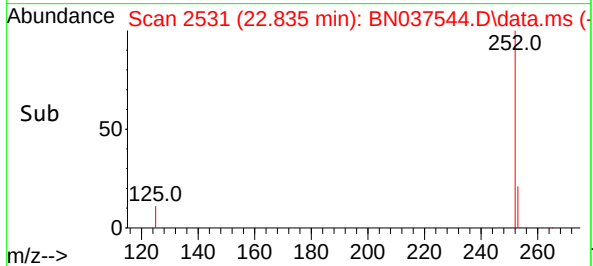
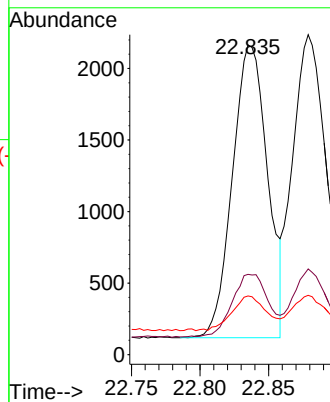
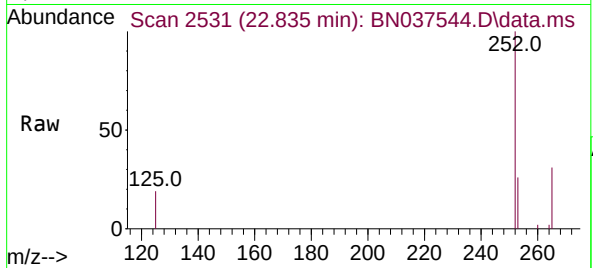




#37
Benzo(b)fluoranthene
Concen: 0.371 ng
RT: 22.835 min Scan# 2531
Delta R.T. -0.009 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

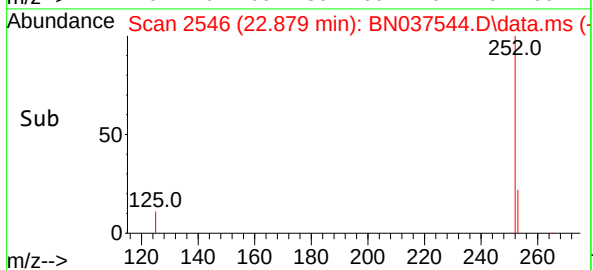
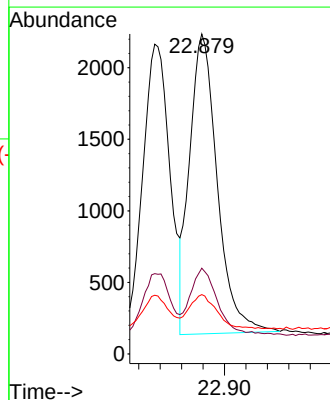
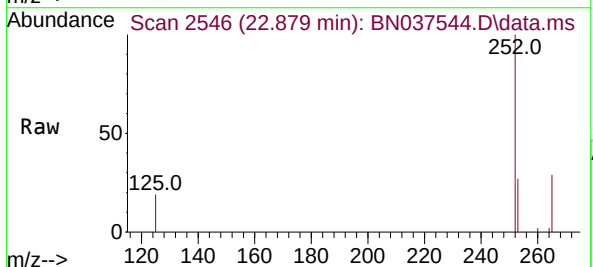
Instrument :
BNA_N
ClientSampleId :
PB168952BS

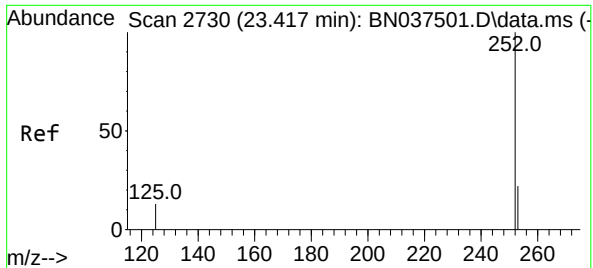
Tgt Ion:252 Resp: 3643
Ion Ratio Lower Upper
252 100
253 25.9 19.5 29.3
125 18.9 13.0 19.6



#38
Benzo(k)fluoranthene
Concen: 0.371 ng
RT: 22.879 min Scan# 2546
Delta R.T. -0.009 min
Lab File: BN037544.D
Acq: 22 Jul 2025 18:05

Tgt Ion:252 Resp: 3764
Ion Ratio Lower Upper
252 100
253 26.8 19.5 29.3
125 18.5 13.1 19.7





#39

Benzo(a)pyrene

Concen: 0.385 ng

RT: 23.411 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037544.D

Acq: 22 Jul 2025 18:05

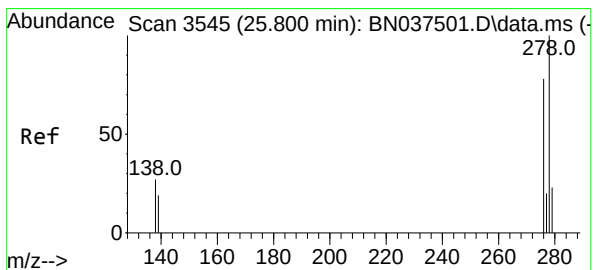
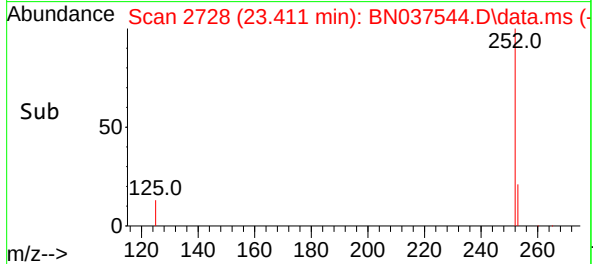
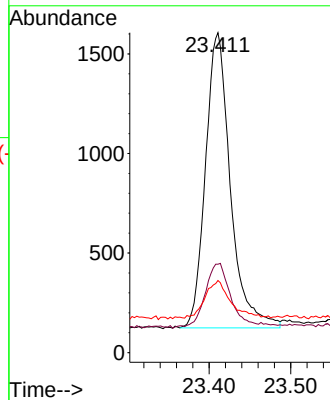
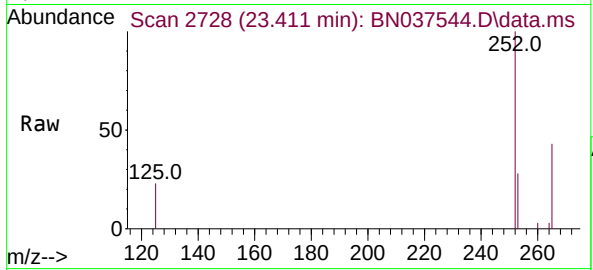
Instrument :

BNA_N

ClientSampleId :

PB168952BS

Tgt Ion:252	Resp:	3151
Ion Ratio	Lower	Upper
252	100	
253	27.6	19.9 29.9
125	22.5	15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.367 ng

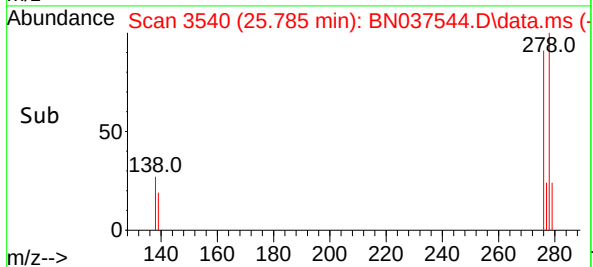
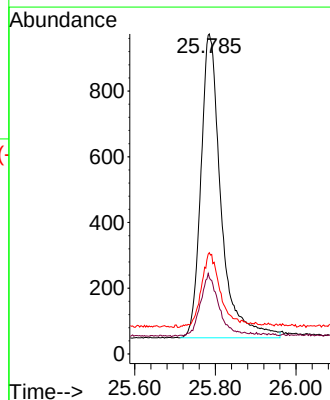
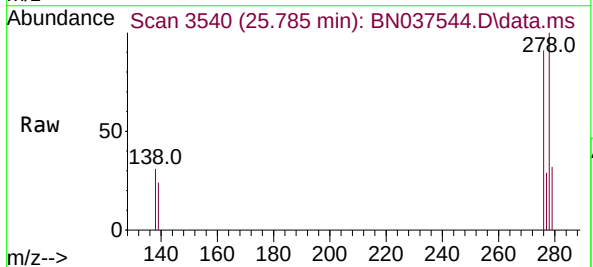
RT: 25.785 min Scan# 3540

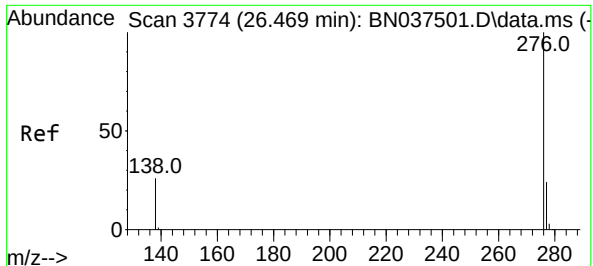
Delta R.T. -0.015 min

Lab File: BN037544.D

Acq: 22 Jul 2025 18:05

Tgt Ion:278	Resp:	3204
Ion Ratio	Lower	Upper
278	100	
139	23.8	17.5 26.3
279	31.6	21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.457 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037544.D

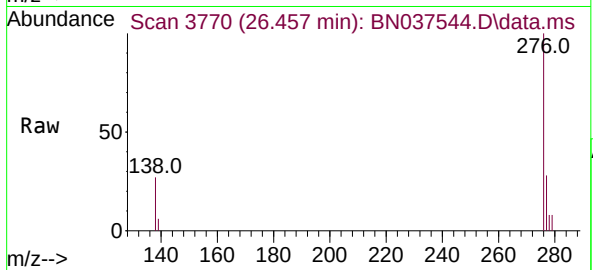
Acq: 22 Jul 2025 18:05

Instrument :

BNA_N

ClientSampleId :

PB168952BS



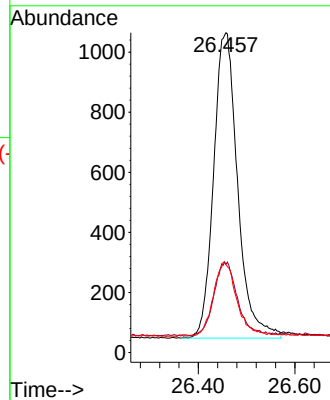
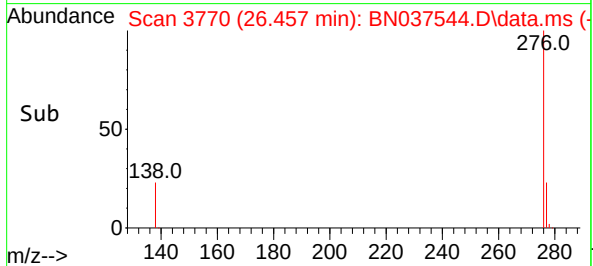
Tgt Ion:276 Resp: 3511

Ion Ratio Lower Upper

276 100

277 27.6 20.9 31.3

138 27.4 22.6 33.8



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168952BSD	SDG No.:	Q2643
Lab Sample ID:	PB168952BSD	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
BN037545.D	1	07/21/25 09:10	07/22/25 18:41	PB168952

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	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		89%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1820	7.724				
1146-65-2	Naphthalene-d8	4390	10.498				
15067-26-2	Acenaphthene-d10	2110	14.355				
1517-22-2	Phenanthrene-d10	4030	17.086				
1719-03-5	Chrysene-d12	3050	21.268				
1520-96-3	Perylene-d12	2640	23.508				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
 Data File : BN037545.D
 Acq On : 22 Jul 2025 18:41
 Operator : RC/JU
 Sample : PB168952BSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168952BSD

Quant Time: Jul 23 04:23:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 19 01:46:16 2025
 Response via : Initial Calibration

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

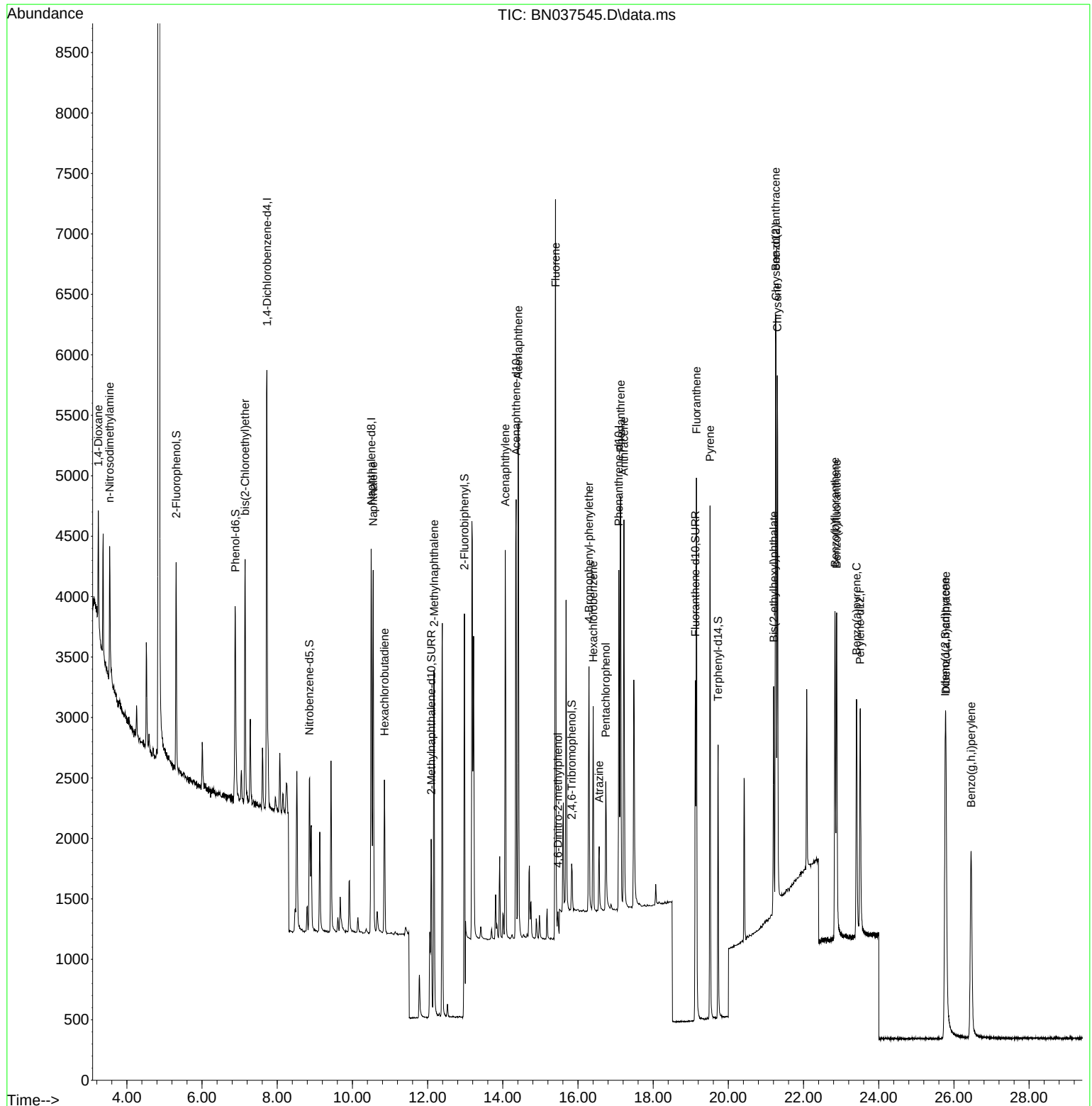
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1815	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4389	0.400	ng	#-0.01
13) Acenaphthene-d10	14.355	164	2110	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4034	0.400	ng	#-0.01
29) Chrysene-d12	21.268	240	3054	0.400	ng	# 0.00
35) Perylene-d12	23.508	264	2644	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1350	0.301	ng	0.00
5) Phenol-d6	6.887	99	1563	0.278	ng	0.00
8) Nitrobenzene-d5	8.854	82	1117	0.340	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2144	0.341	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	276	0.266	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4388	0.400	ng	0.00
27) Fluoranthene-d10	19.122	212	3267	0.306	ng	0.00
31) Terphenyl-d14	19.726	244	2328	0.355	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.239	88	523	0.300	ng	# 62
3) n-Nitrosodimethylamine	3.543	42	786	0.358	ng	# 85
6) bis(2-Chloroethyl)ether	7.147	93	1493	0.319	ng	97
9) Naphthalene	10.552	128	3916	0.335	ng	98
10) Hexachlorobutadiene	10.850	225	1044	0.404	ng	# 99
12) 2-Methylnaphthalene	12.172	142	2196	0.285	ng	96
16) Acenaphthylene	14.067	152	3466	0.367	ng	99
17) Acenaphthene	14.409	154	2148	0.334	ng	97
18) Fluorene	15.403	166	2703	0.327	ng	97
20) 4,6-Dinitro-2-methylph...	15.467	198	158	0.380	ng	91
21) 4-Bromophenyl-phenylether	16.292	248	840	0.325	ng	94
22) Hexachlorobenzene	16.404	284	1231	0.369	ng	98
23) Atrazine	16.565	200	535	0.297	ng	92
24) Pentachlorophenol	16.739	266	608	0.406	ng	98
25) Phenanthrene	17.136	178	4083	0.338	ng	99
26) Anthracene	17.223	178	3611	0.327	ng	99
28) Fluoranthene	19.150	202	4137	0.297	ng	98
30) Pyrene	19.513	202	4042	0.329	ng	100
32) Benzo(a)anthracene	21.259	228	3607	0.337	ng	99
33) Chrysene	21.304	228	3931	0.353	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	1418	0.295	ng	96
36) Indeno(1,2,3-cd)pyrene	25.768	276	3827	0.348	ng	98
37) Benzo(b)fluoranthene	22.835	252	3530	0.352	ng	94
38) Benzo(k)fluoranthene	22.882	252	3802	0.367	ng	96
39) Benzo(a)pyrene	23.408	252	3017	0.360	ng	92
40) Dibenzo(a,h)anthracene	25.788	278	3088	0.346	ng	92
41) Benzo(g,h,i)perylene	26.458	276	3439	0.373	ng	98

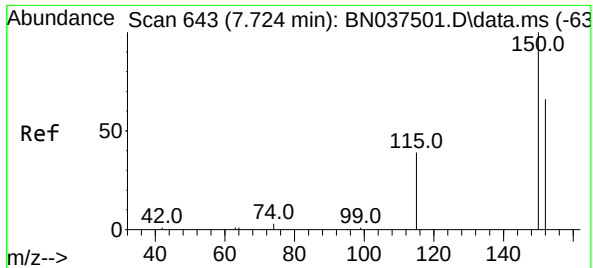
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN072225\
Data File : BN037545.D
Acq On : 22 Jul 2025 18:41
Operator : RC/JU
Sample : PB168952BSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168952BSD

Quant Time: Jul 23 04:23:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 19 01:46:16 2025
Response via : Initial Calibration

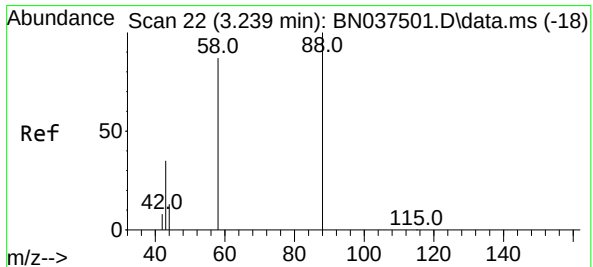
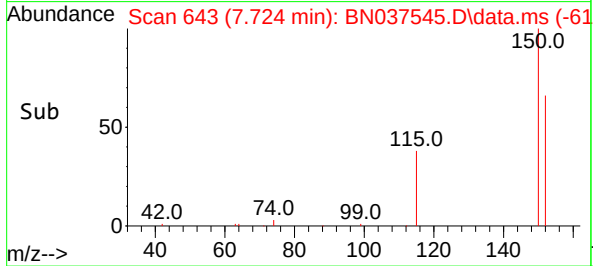
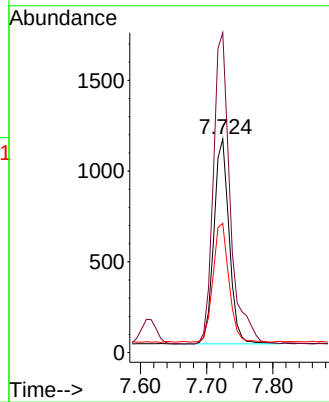
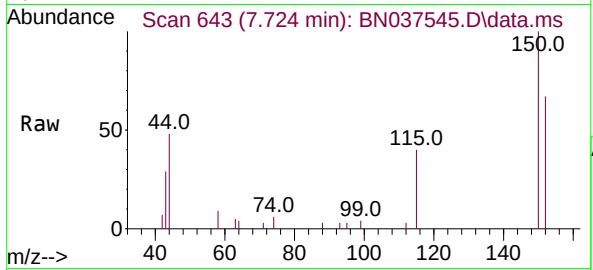




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

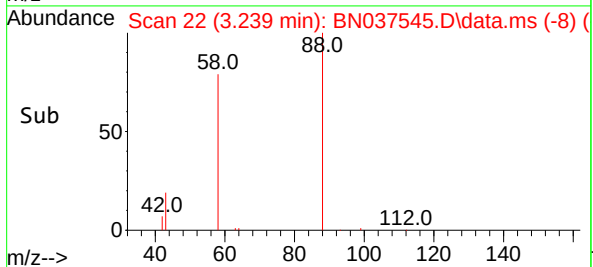
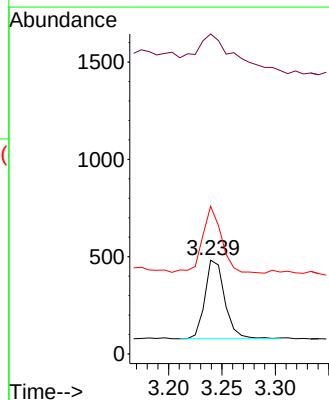
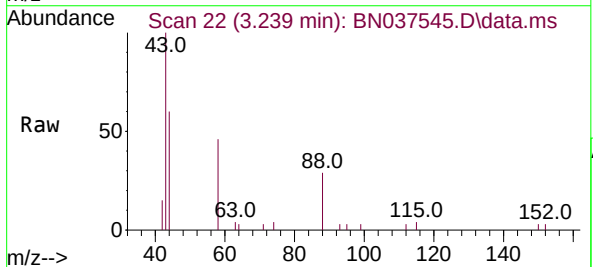
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

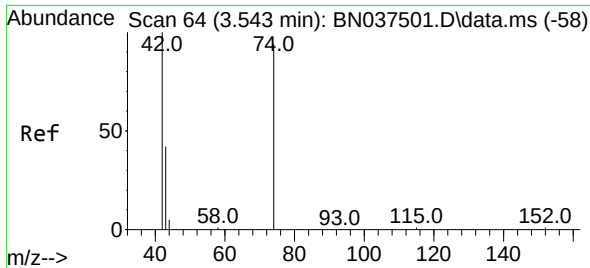
Tgt Ion:152 Resp: 1815
Ion Ratio Lower Upper
152 100
150 149.8 119.8 179.8
115 60.5 49.1 73.7



#2
1,4-Dioxane
Concen: 0.300 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion: 88 Resp: 523
Ion Ratio Lower Upper
88 100
43 100.2 27.5 41.3#
58 82.0 62.7 94.1

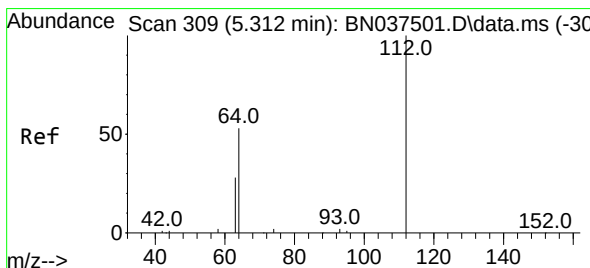
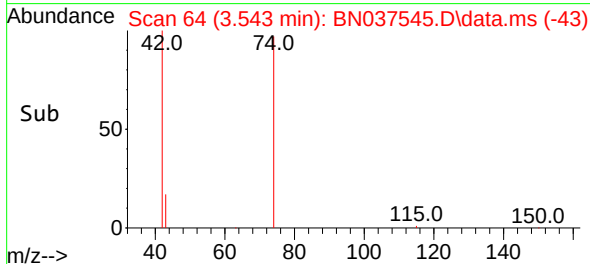
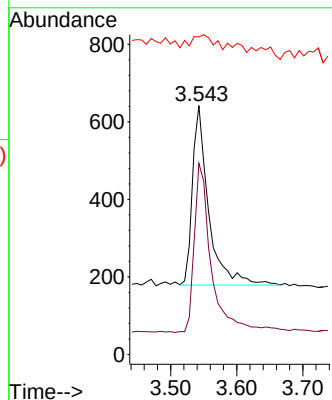
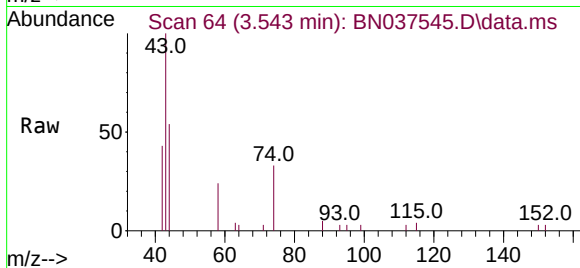




#3
n-Nitrosodimethylamine
Concen: 0.358 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

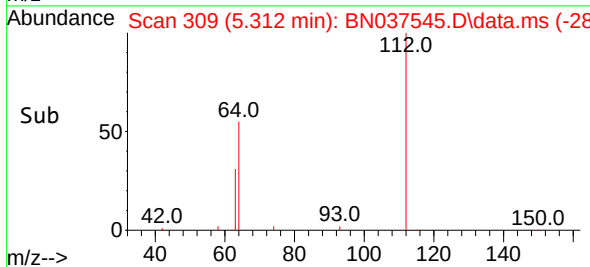
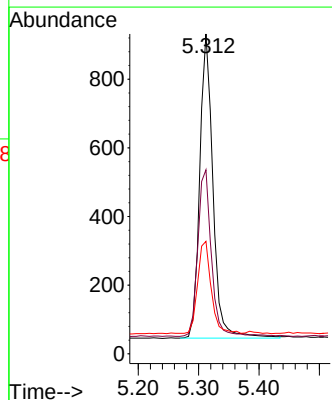
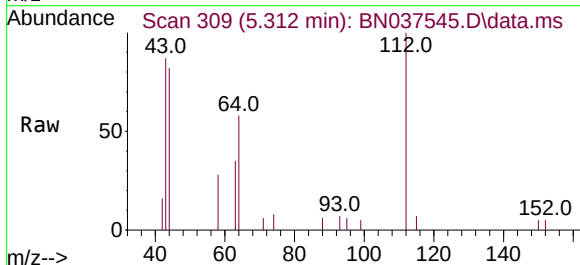
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

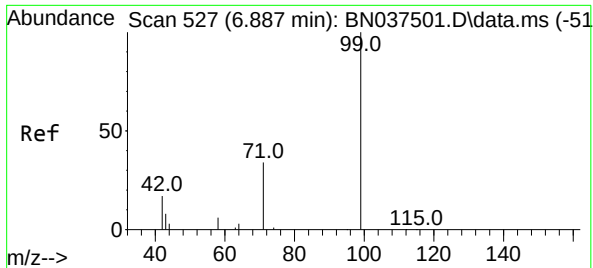
Tgt Ion: 42 Resp: 786
Ion Ratio Lower Upper
42 100
74 99.7 91.8 137.6
44 9.5 15.0 22.6#



#4
2-Fluorophenol
Concen: 0.301 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion: 112 Resp: 1350
Ion Ratio Lower Upper
112 100
64 55.8 45.1 67.7
63 30.9 23.8 35.8

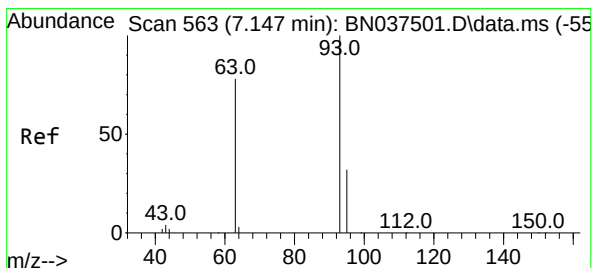
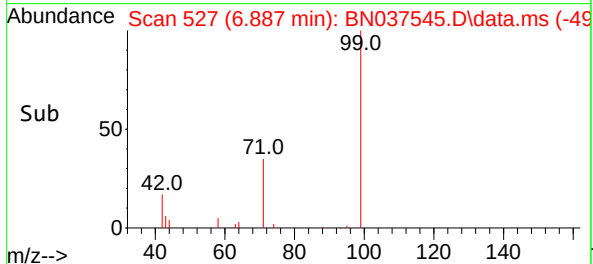
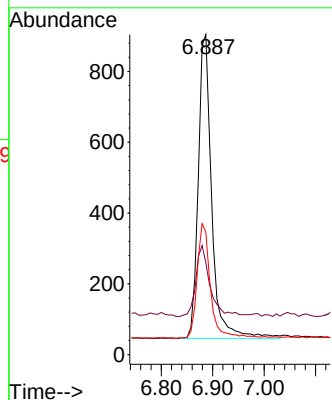
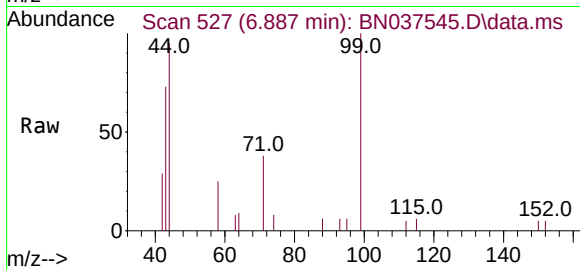




#5
Phenol-d6
Concen: 0.278 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

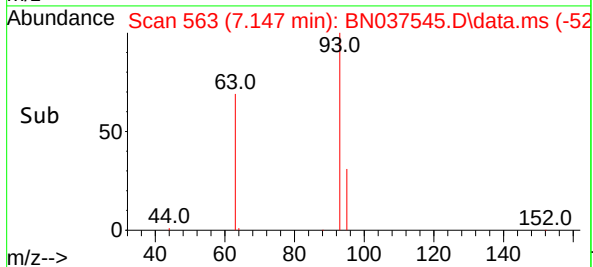
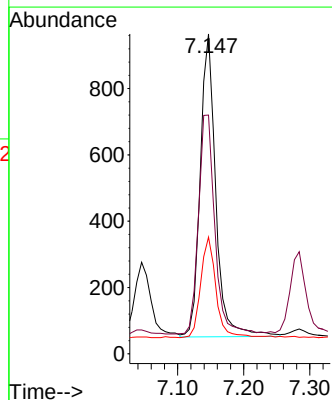
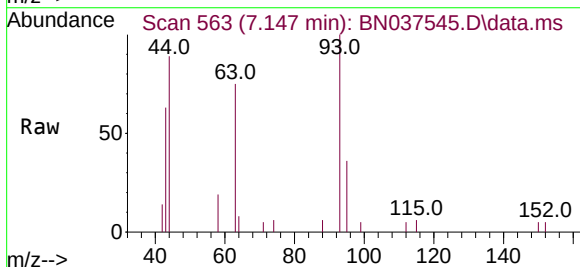
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

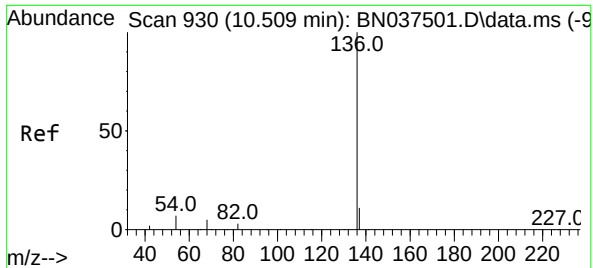
Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.4	17.1	25.7
71	38.3	27.8	41.8



#6
bis(2-Chloroethyl)ether
Concen: 0.319 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.3	58.2	87.4
95	32.5	25.3	37.9

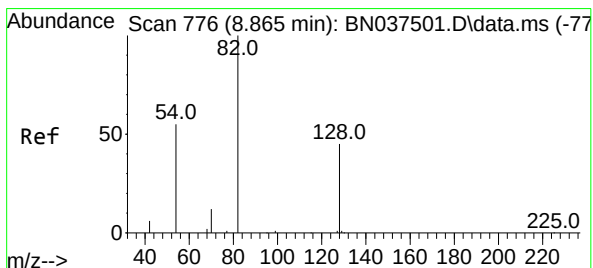
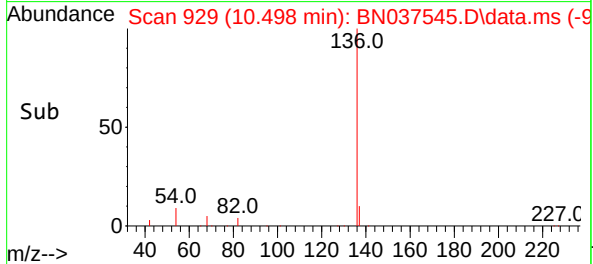
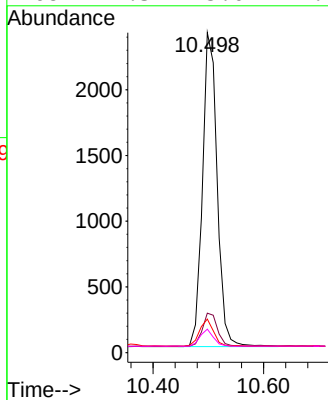
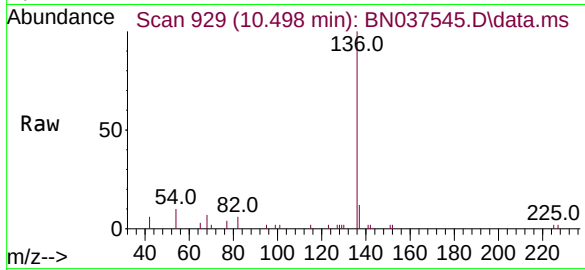




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

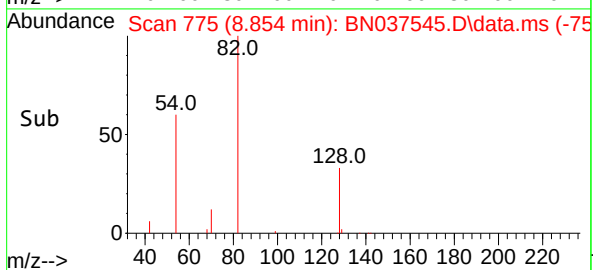
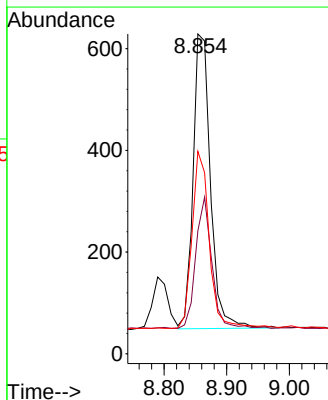
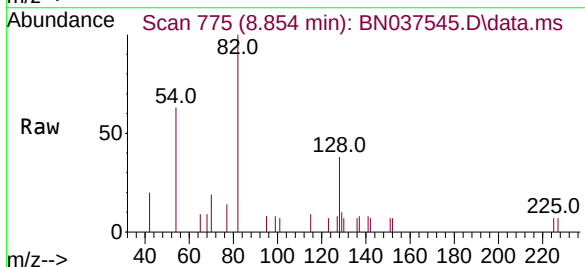
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

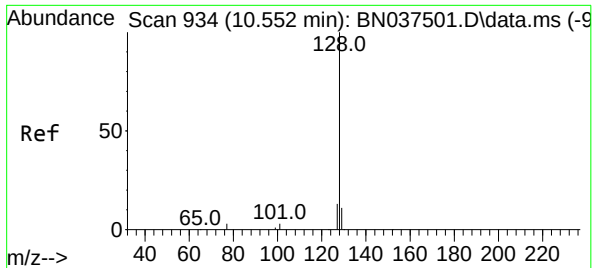
Tgt Ion:	136	Resp:	4389
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	10.5	6.6	9.8#
68	7.3	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.011 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:	82	Resp:	1117
Ion	Ratio	Lower	Upper
82	100		
128	38.5	37.5	56.3
54	63.3	45.3	67.9

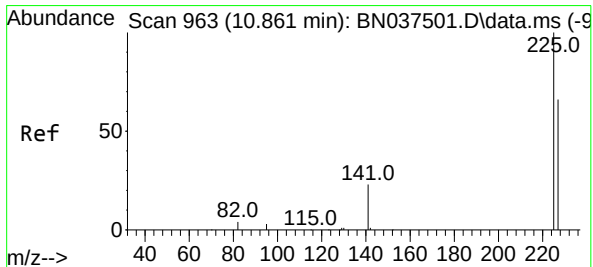
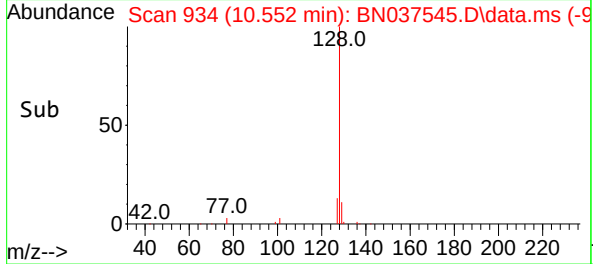
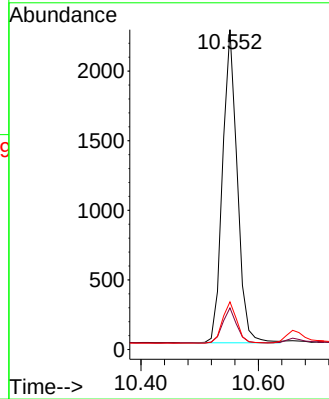
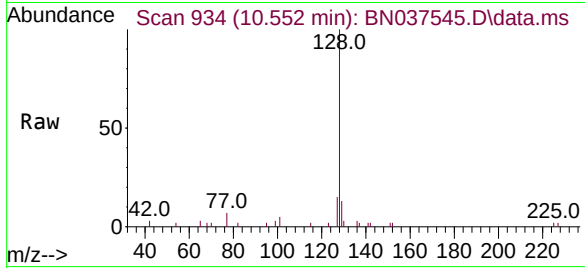




#9
Naphthalene
Concen: 0.335 ng
RT: 10.552 min Scan# 934
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

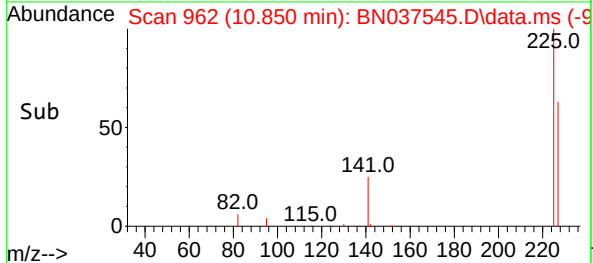
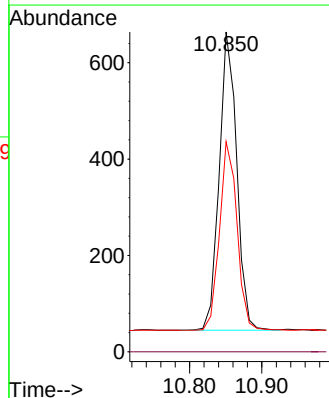
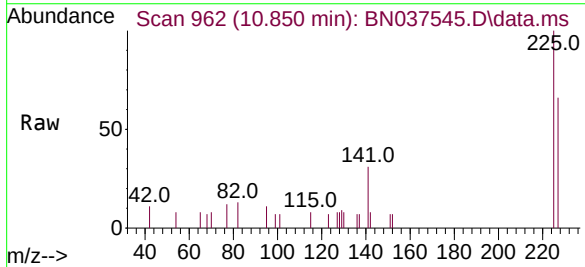
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

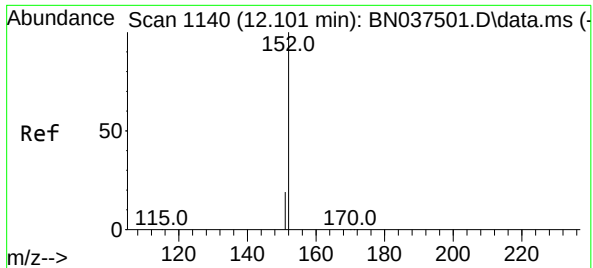
Tgt Ion:	128	Resp:	3916
Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.7	14.5
127	14.9	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.404 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.011 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:	225	Resp:	1044
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.0	76.4

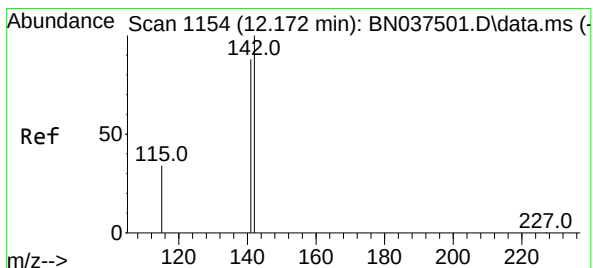
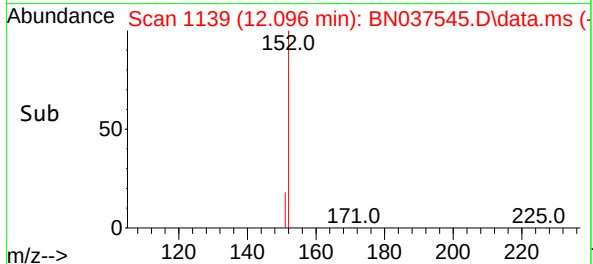
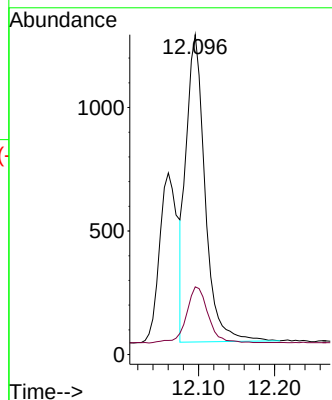
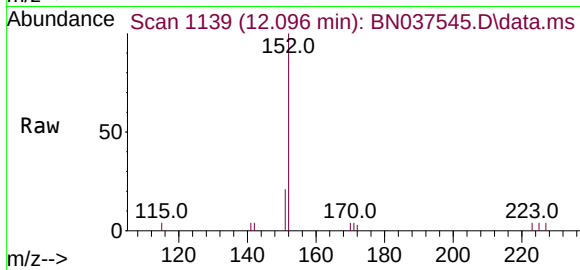




#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

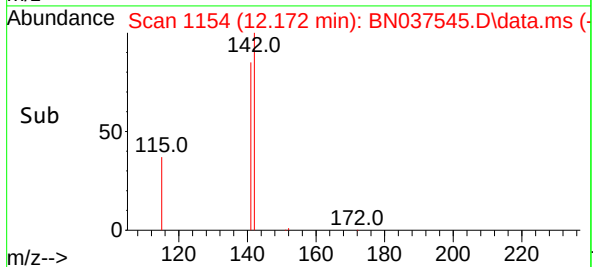
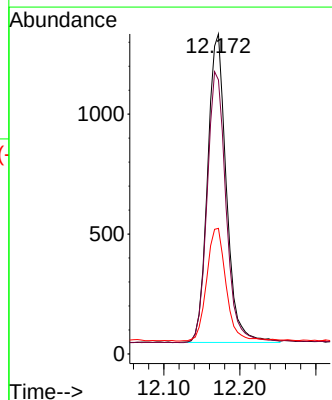
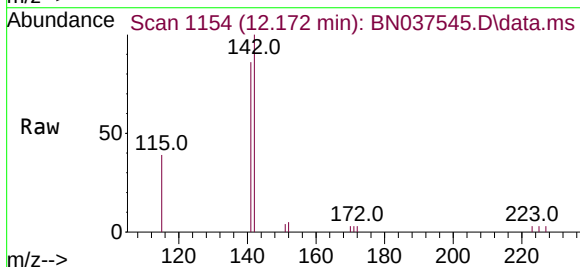
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

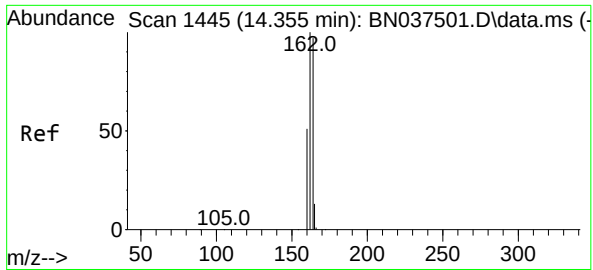
Tgt Ion:152 Resp: 2144
Ion Ratio Lower Upper
152 100
151 21.4 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.285 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:142 Resp: 2196
Ion Ratio Lower Upper
142 100
141 85.6 71.0 106.4
115 39.3 29.0 43.4

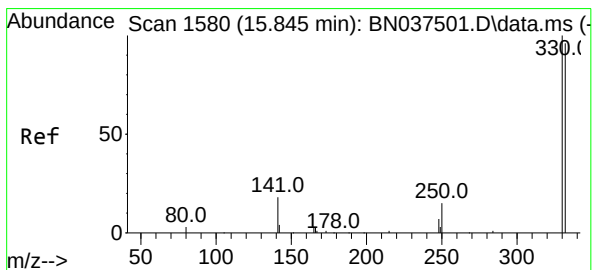
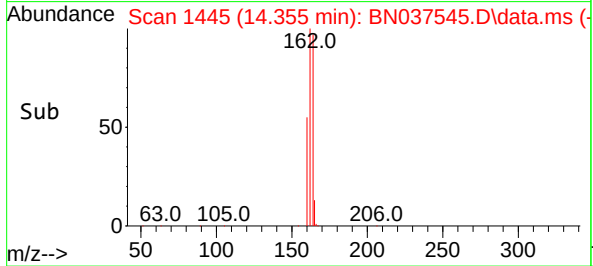
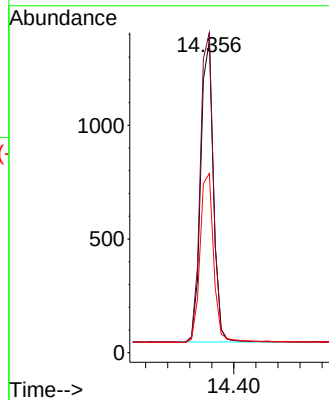
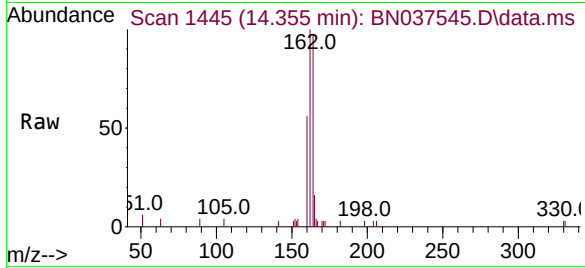




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

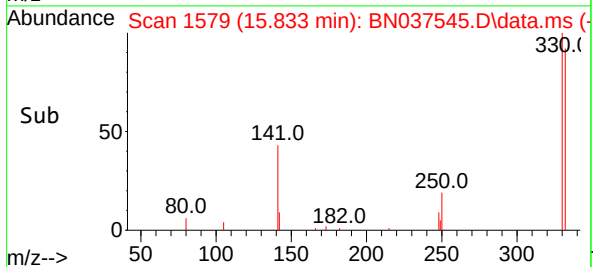
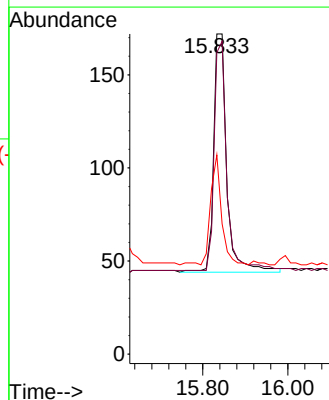
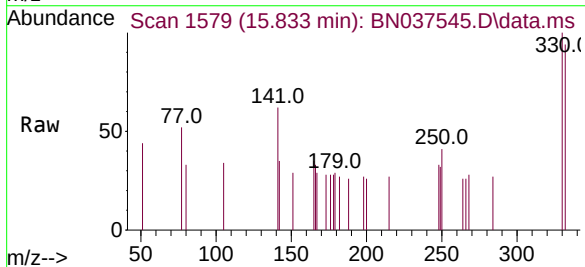
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

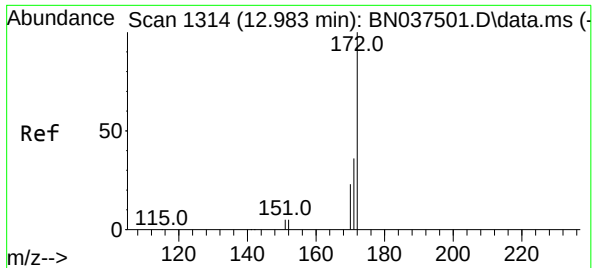
Tgt Ion:	164	Resp:	2110
Ion Ratio	Lower	Upper	
164	100		
162	102.7	82.0	123.0
160	57.5	42.4	63.6



#14
2,4,6-Tribromophenol
Concen: 0.266 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:	330	Resp:	276
Ion Ratio	Lower	Upper	
330	100		
332	90.9	76.1	114.1
141	38.8	33.4	50.0

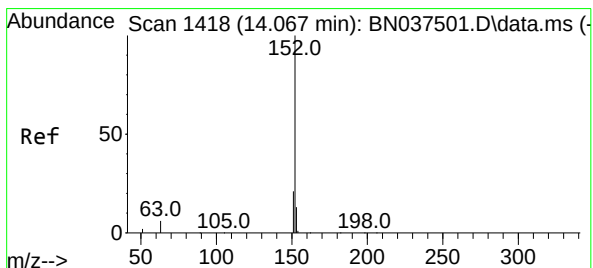
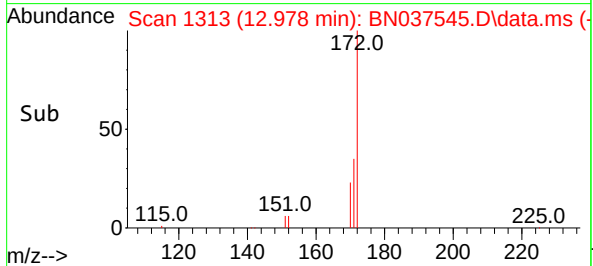
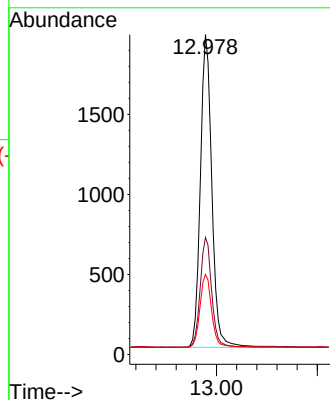
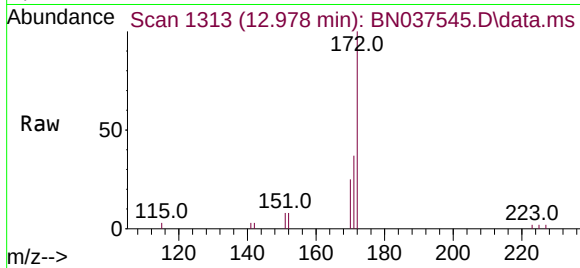




#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 12.978 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

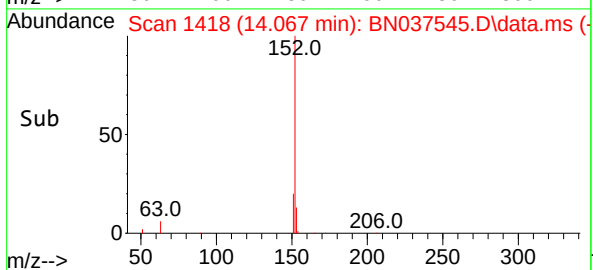
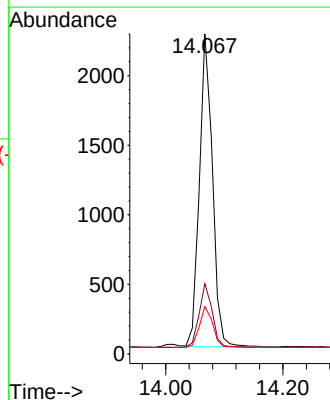
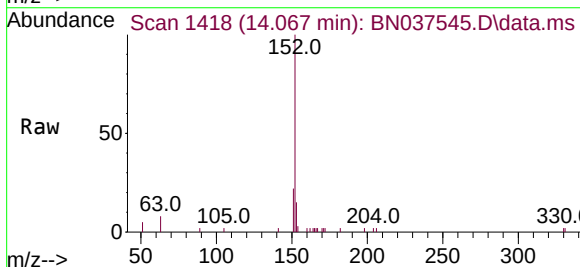
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

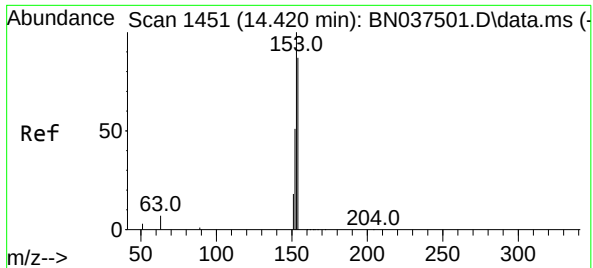
Tgt Ion:	172	Resp:	4388
Ion Ratio	Lower	Upper	
172	100		
171	36.6	29.4	44.2
170	25.0	19.4	29.0



#16
Acenaphthylene
Concen: 0.367 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:	152	Resp:	3466
Ion Ratio	Lower	Upper	
152	100		
151	20.6	15.9	23.9
153	13.6	10.7	16.1

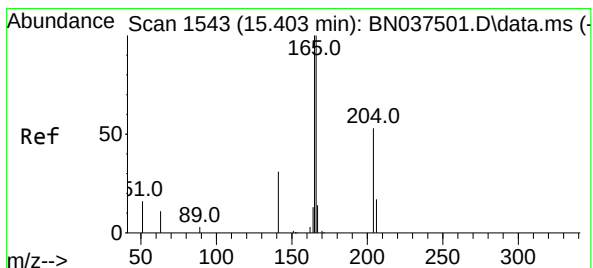
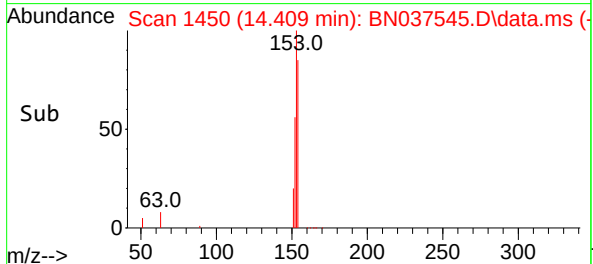
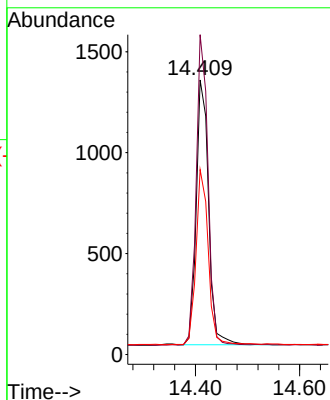
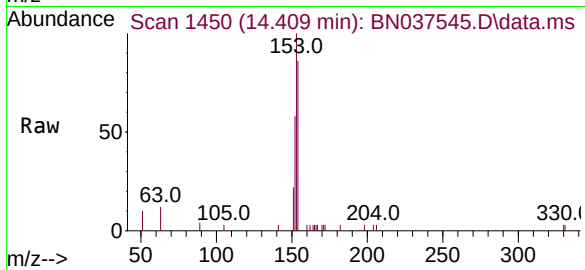




#17
Acenaphthene
Concen: 0.334 ng
RT: 14.409 min Scan# 1450
Delta R.T. -0.011 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

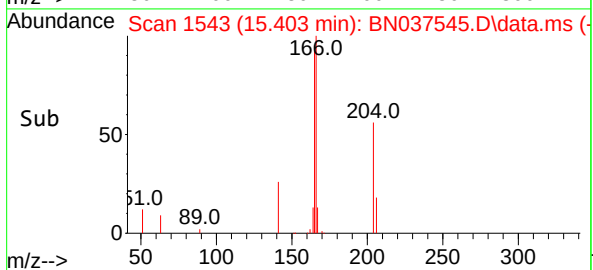
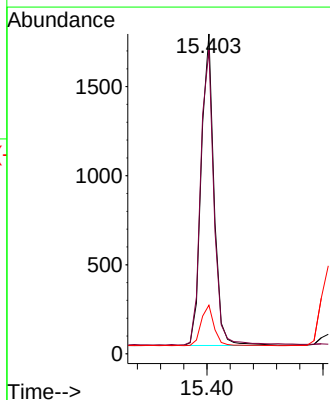
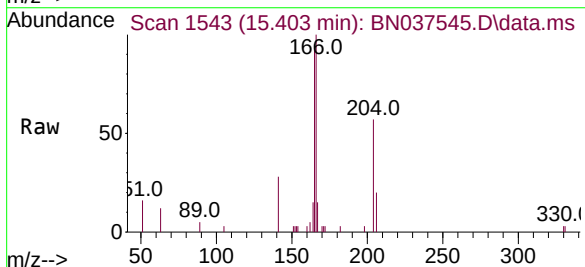
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

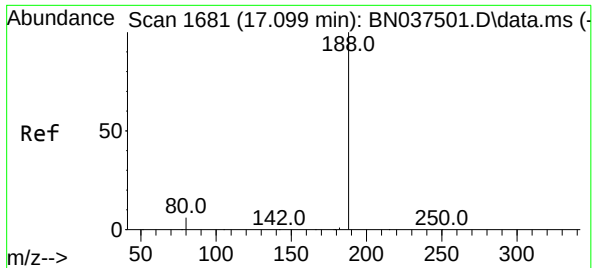
Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.2	133.8
152	65.4	48.0	72.0



#18
Fluorene
Concen: 0.327 ng
RT: 15.403 min Scan# 1543
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.7	78.1	117.1
167	13.3	11.0	16.6

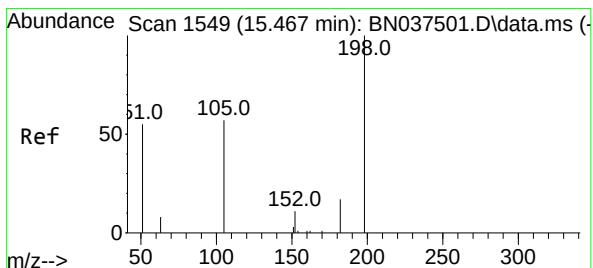
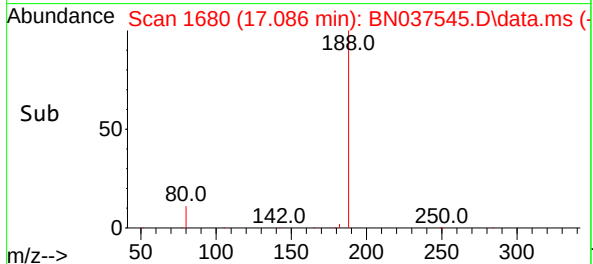
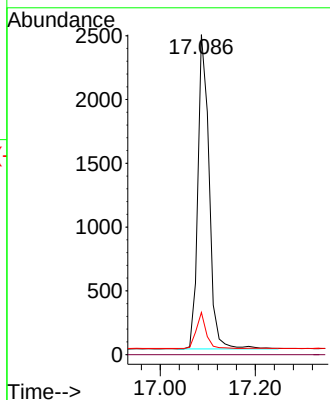
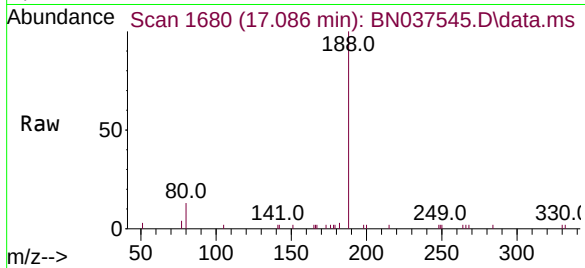




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

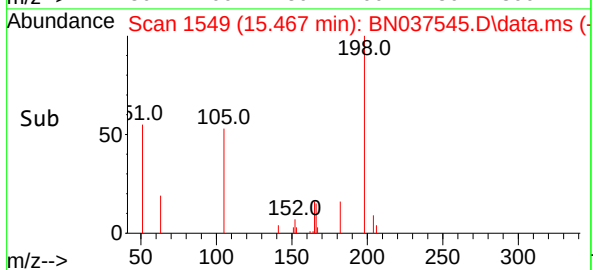
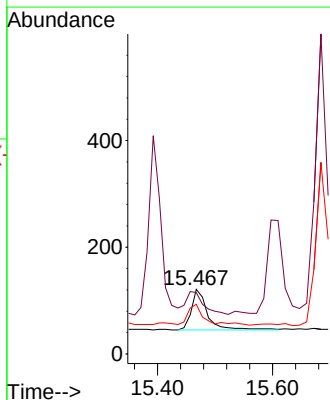
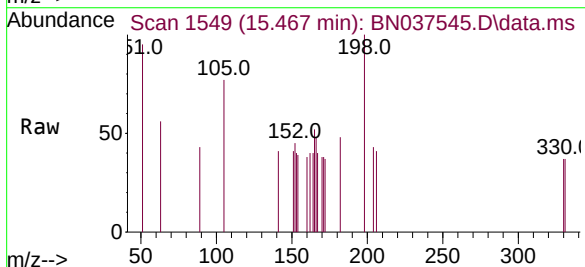
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

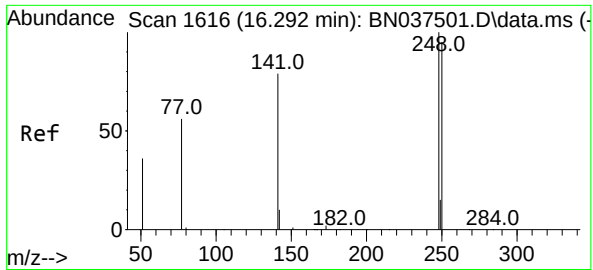
Tgt Ion	188	Resp	4034
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.2	6.0	9.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.380 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion	198	Resp	158
Ion Ratio	Lower	Upper	
198	100		
51	95.0	88.5	132.7
105	76.9	61.2	91.8

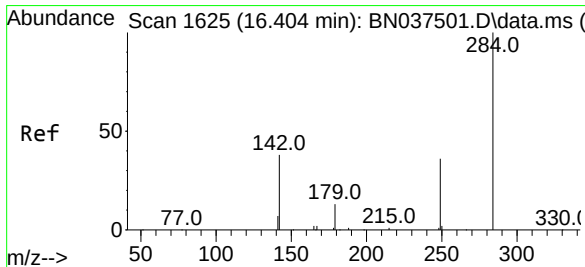
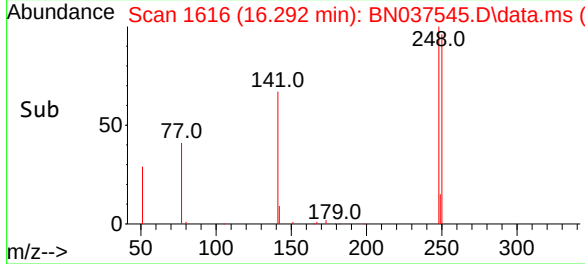
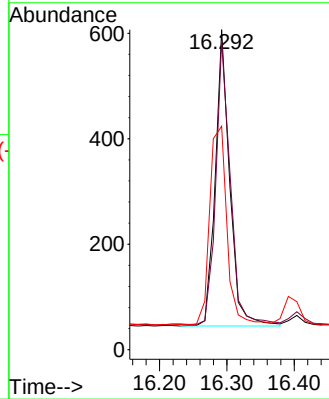
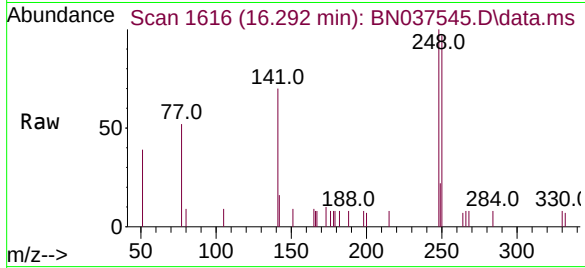




#21
4-Bromophenyl-phenylether
Concen: 0.325 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

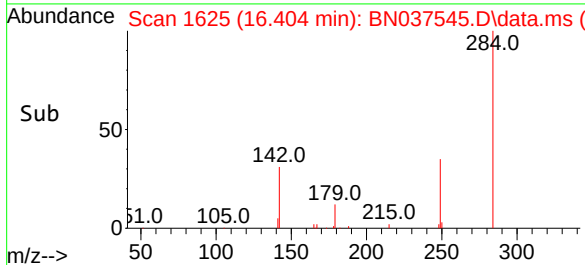
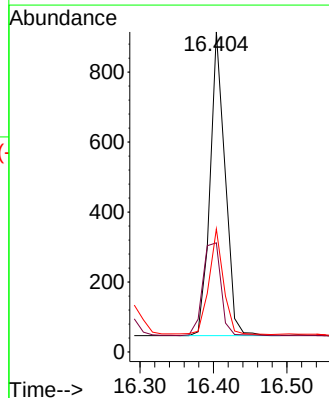
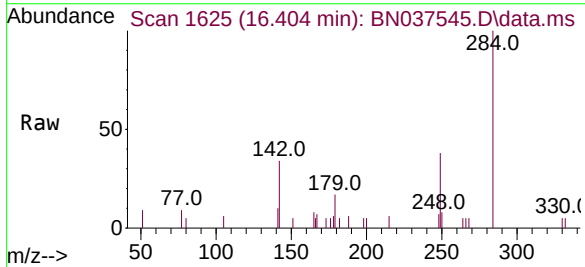
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

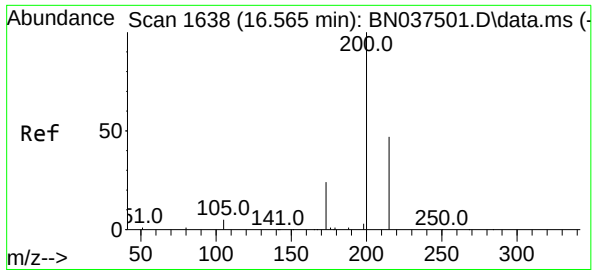
Tgt Ion:	248	Resp:	840
Ion Ratio	Lower	Upper	
248	100		
250	96.5	76.2	114.2
141	69.9	63.9	95.9



#22
Hexachlorobenzene
Concen: 0.369 ng
RT: 16.404 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:	284	Resp:	1231
Ion Ratio	Lower	Upper	
284	100		
142	37.2	28.9	43.3
249	33.6	25.8	38.6

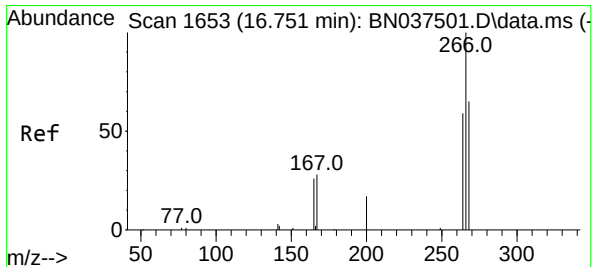
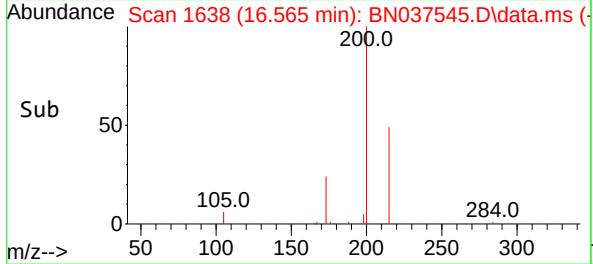
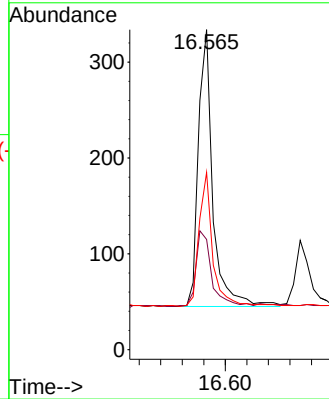
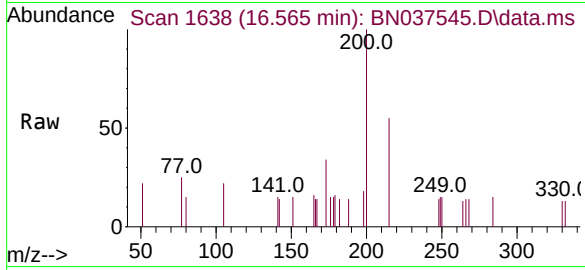




#23
Atrazine
Concen: 0.297 ng
RT: 16.565 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

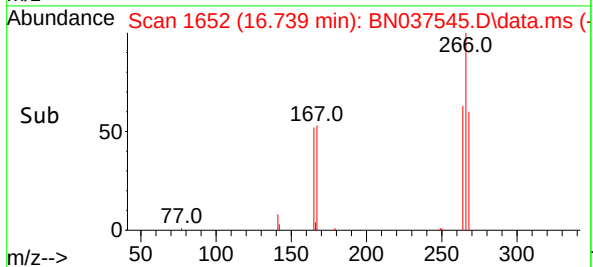
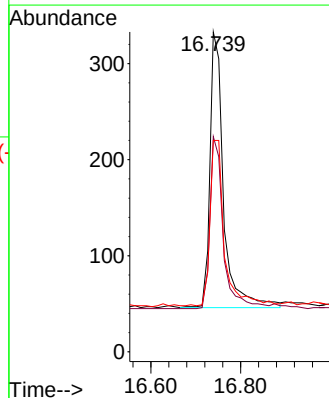
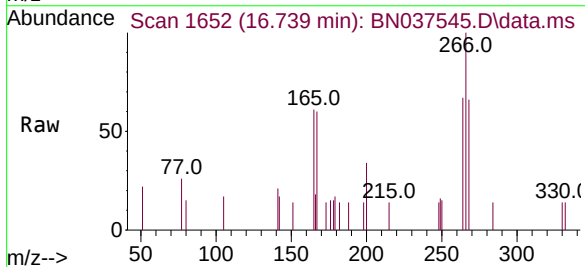
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

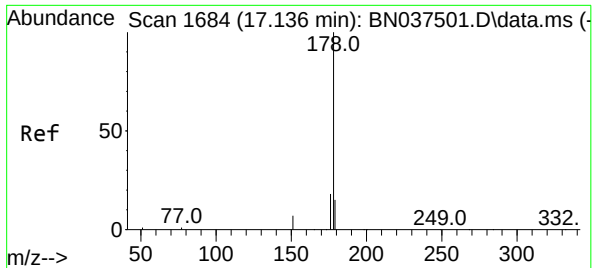
Tgt Ion:	200	Resp:	535
Ion Ratio	Lower	Upper	
200	100		
173	34.4	23.2	34.8
215	55.4	40.2	60.4



#24
Pentachlorophenol
Concen: 0.406 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:	266	Resp:	608
Ion Ratio	Lower	Upper	
266	100		
264	60.9	49.3	73.9
268	62.8	51.6	77.4

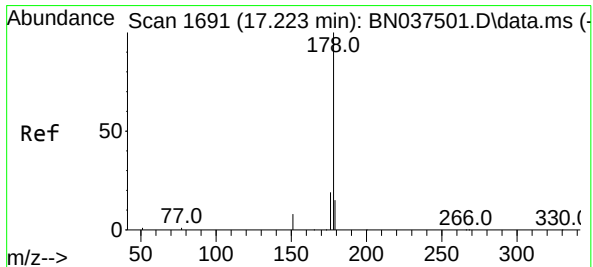
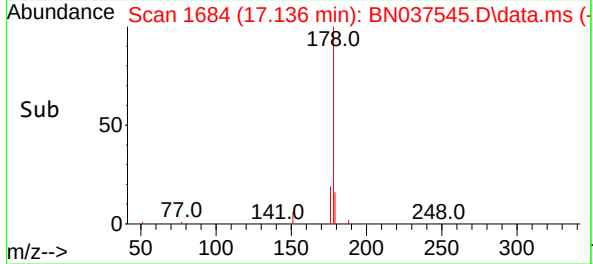
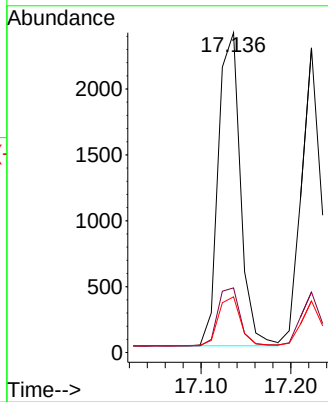
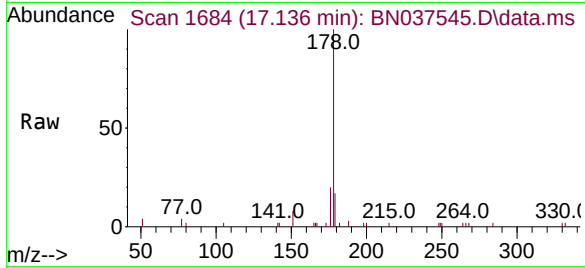




#25
Phenanthrene
Concen: 0.338 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

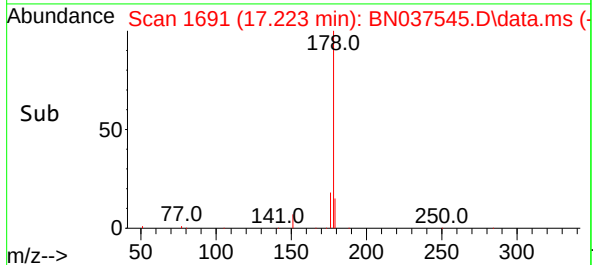
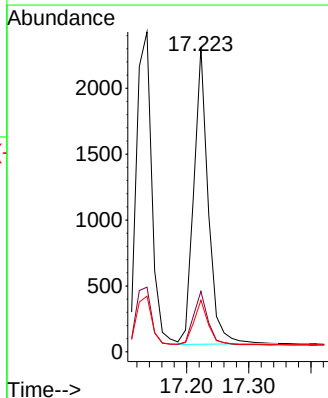
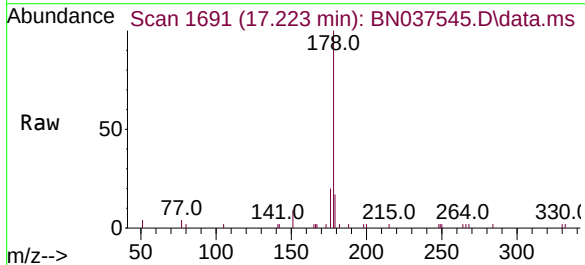
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

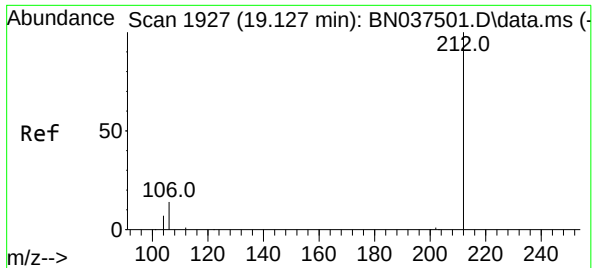
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.0	22.6
179	15.8	12.2	18.2



#26
Anthracene
Concen: 0.327 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.1	12.3	18.5

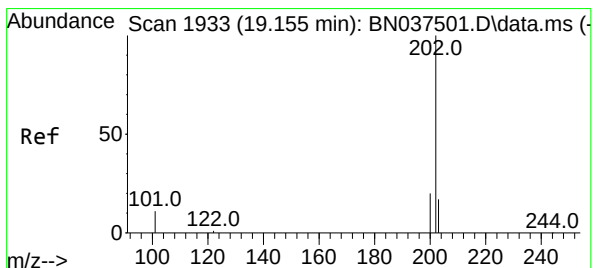
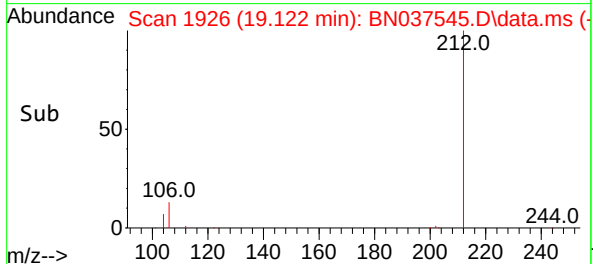
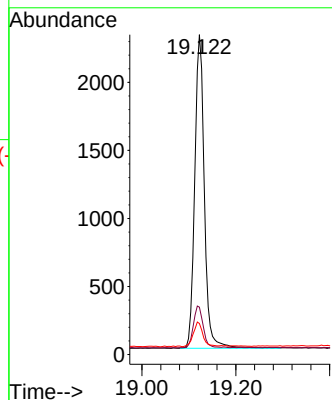
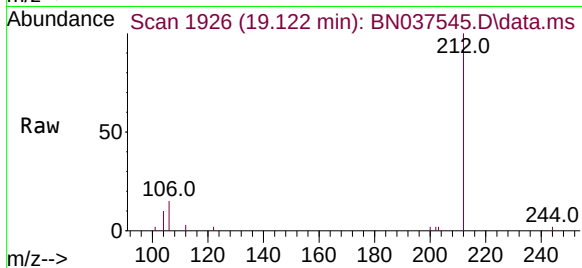




#27
Fluoranthene-d10
Concen: 0.306 ng
RT: 19.122 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

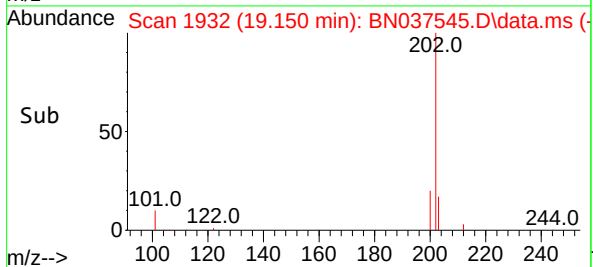
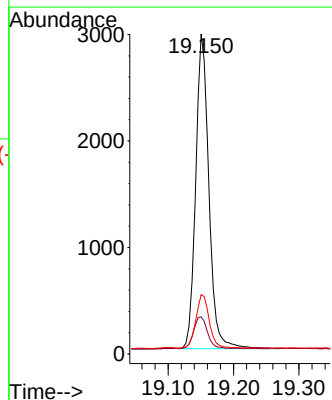
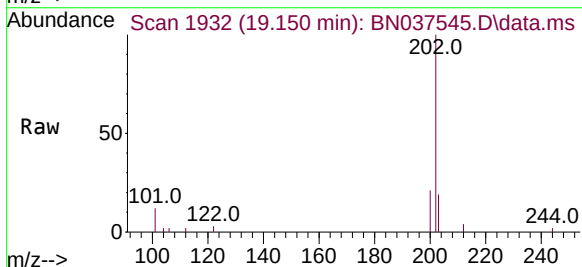
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

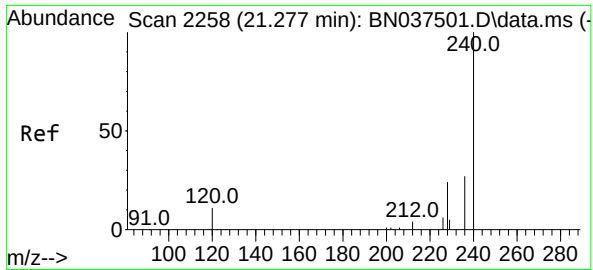
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.6	12.2	18.4
104	7.8	6.7	10.1



#28
Fluoranthene
Concen: 0.297 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.6	9.8	14.6
203	17.5	13.6	20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037545.D

Acq: 22 Jul 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB168952BSD

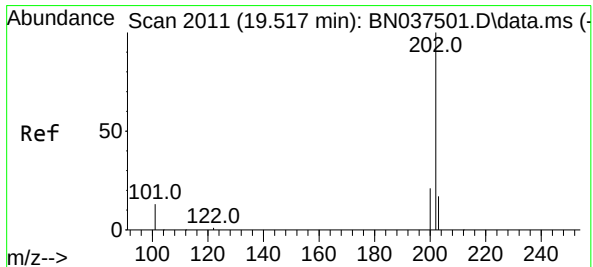
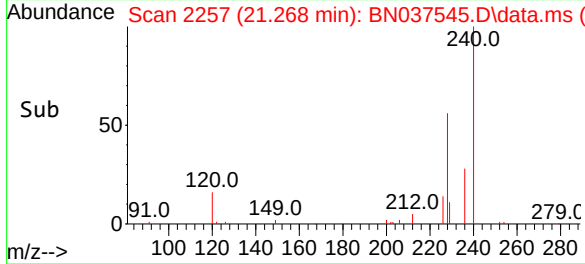
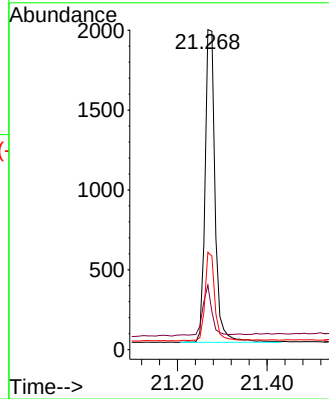
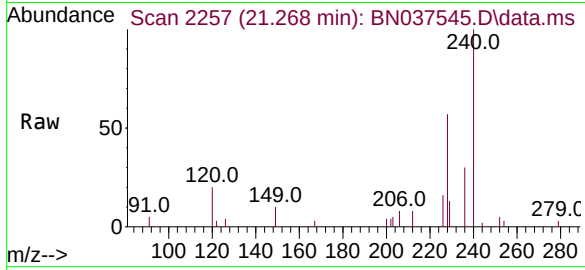
Tgt Ion:240 Resp: 3054

Ion Ratio Lower Upper

240 100

120 20.1 10.7 16.1#

236 30.4 22.6 33.8



#30

Pyrene

Concen: 0.329 ng

RT: 19.513 min Scan# 2010

Delta R.T. -0.005 min

Lab File: BN037545.D

Acq: 22 Jul 2025 18:41

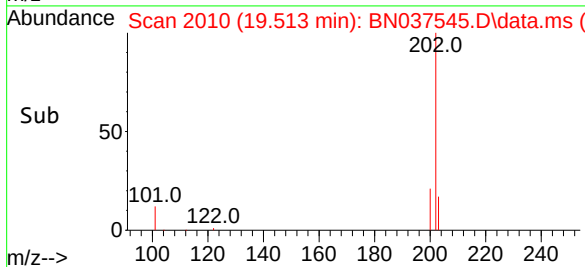
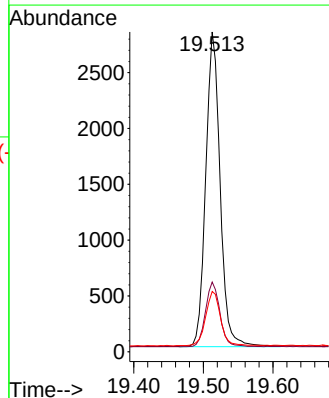
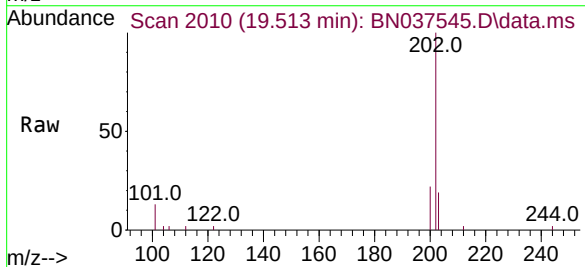
Tgt Ion:202 Resp: 4042

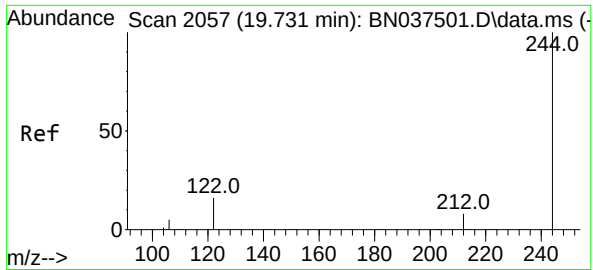
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 18.1 14.3 21.5

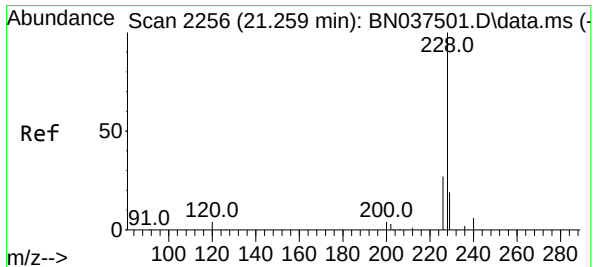
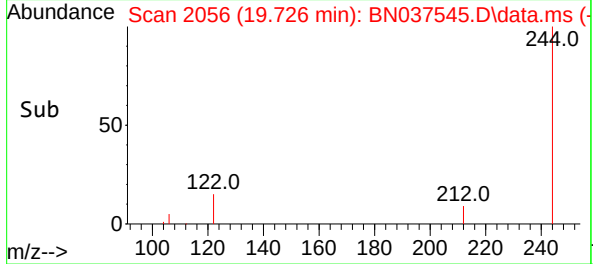
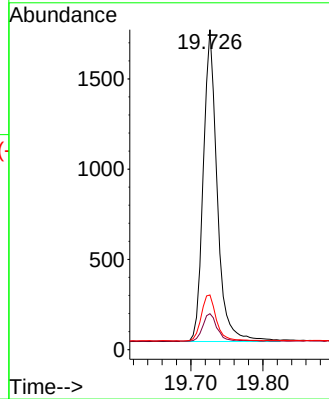
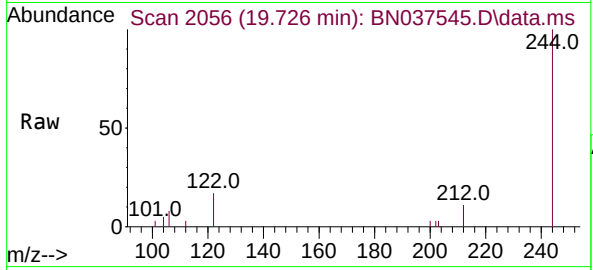




#31
Terphenyl-d14
Concen: 0.355 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

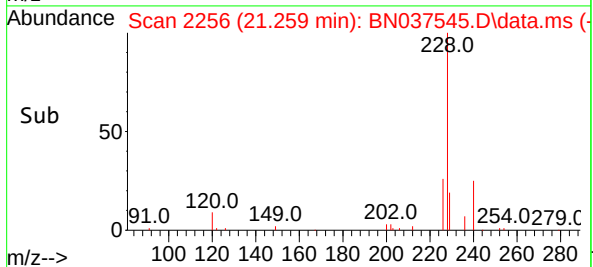
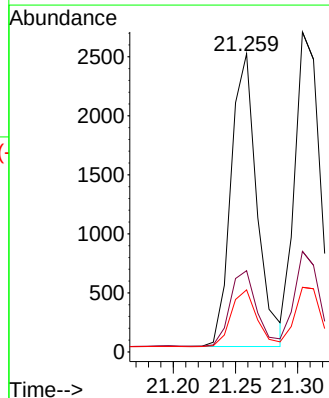
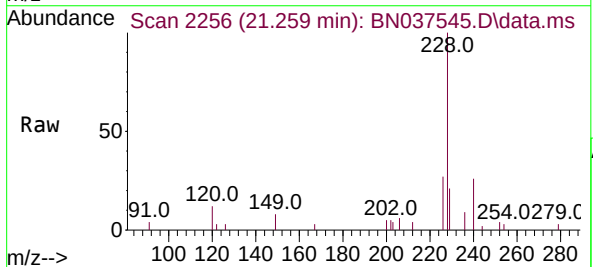
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

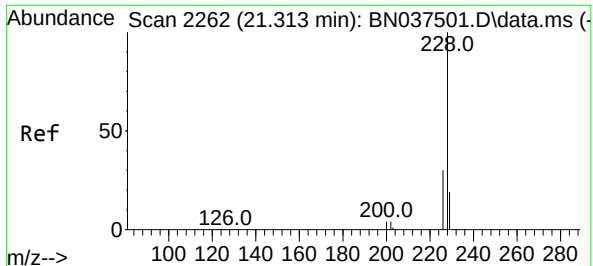
Tgt Ion:244 Resp: 2328
Ion Ratio Lower Upper
244 100
212 11.2 7.4 11.2#
122 17.1 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.337 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:228 Resp: 3607
Ion Ratio Lower Upper
228 100
226 27.2 21.9 32.9
229 20.8 15.8 23.8

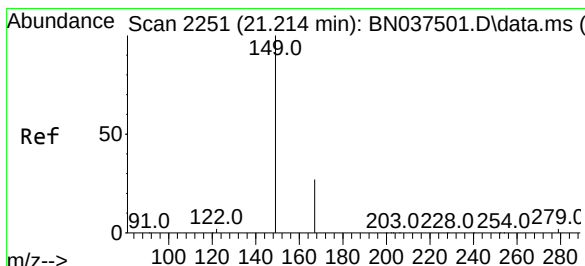
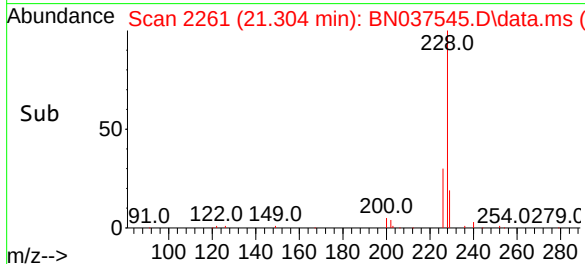
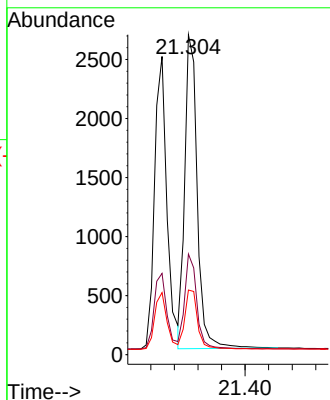
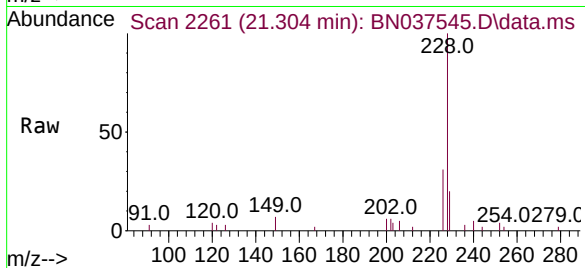




#33
Chrysene
Concen: 0.353 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

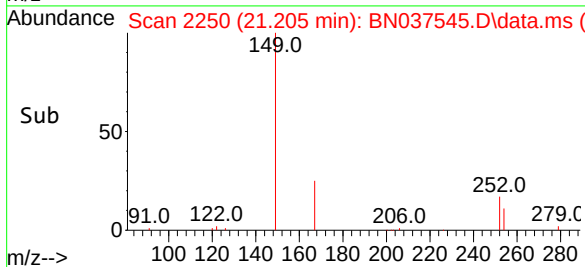
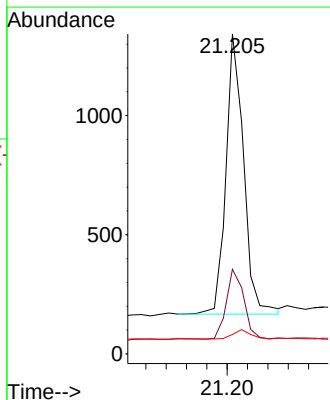
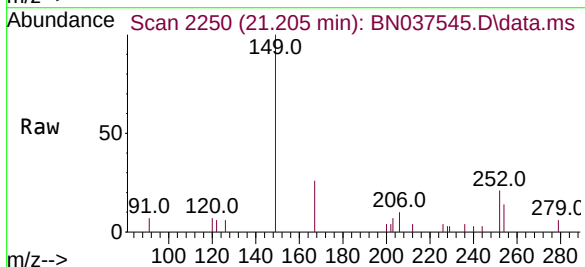
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

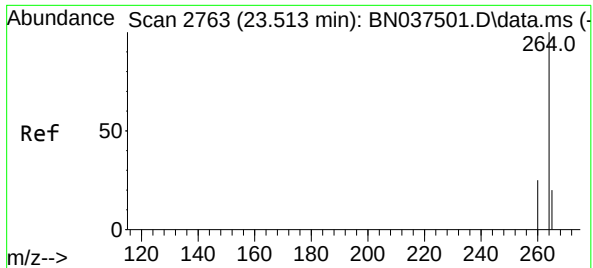
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.2	36.4
229	20.2	16.1	24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.295 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

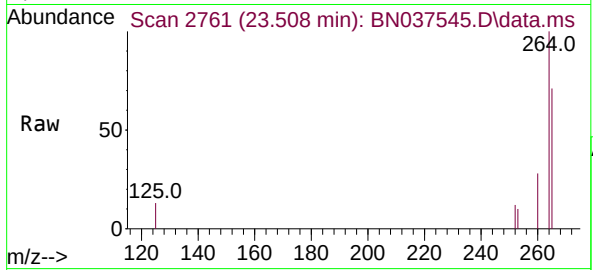
Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.0	21.8	32.8
279	3.2	3.0	4.4



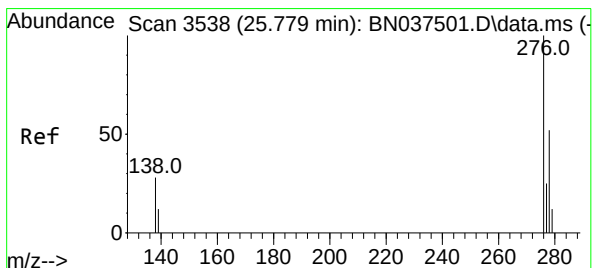
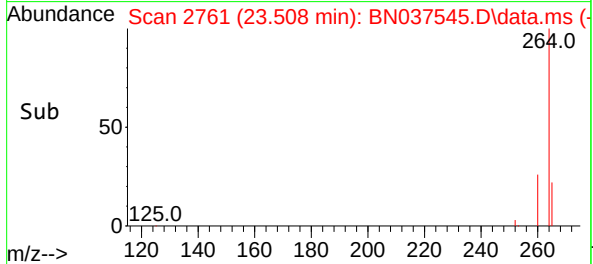
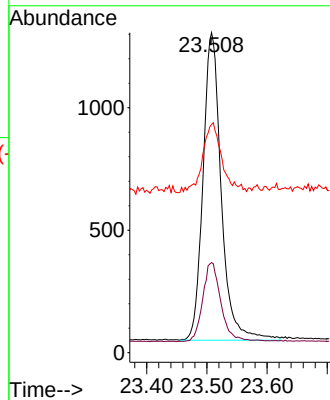


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.508 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Instrument :
BNA_N
ClientSampleId :
PB168952BSD

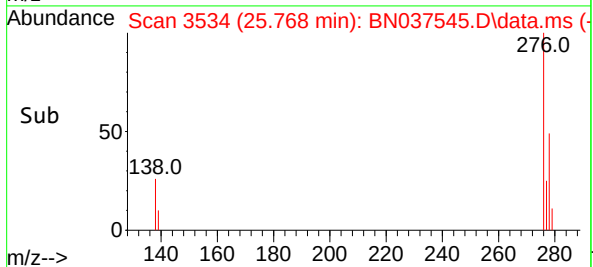
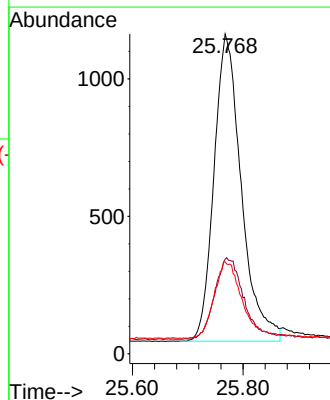
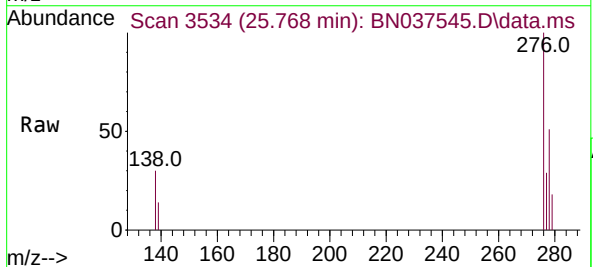


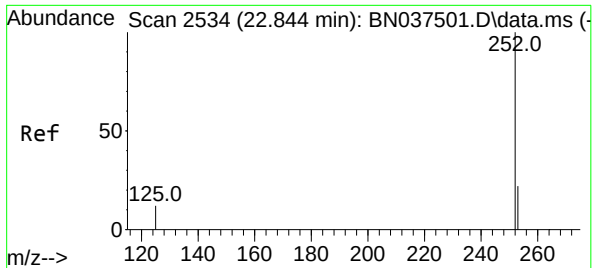
Tgt Ion:264 Resp: 2644
Ion Ratio Lower Upper
264 100
260 28.2 21.2 31.8
265 71.3 40.4 60.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.768 min Scan# 3534
Delta R.T. -0.012 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion:276 Resp: 3827
Ion Ratio Lower Upper
276 100
138 27.9 24.0 36.0
277 25.9 20.5 30.7

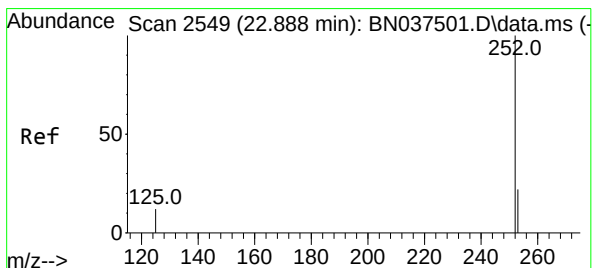
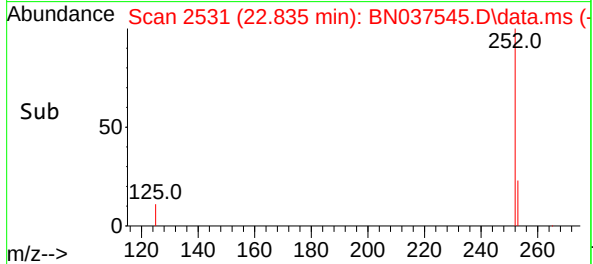
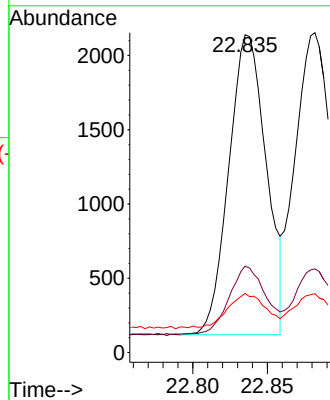
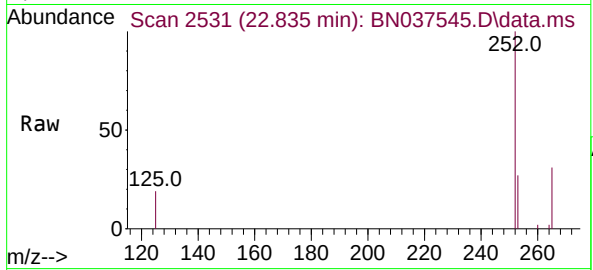




#37
Benzo(b)fluoranthene
Concen: 0.352 ng
RT: 22.835 min Scan# 2531
Delta R.T. -0.009 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

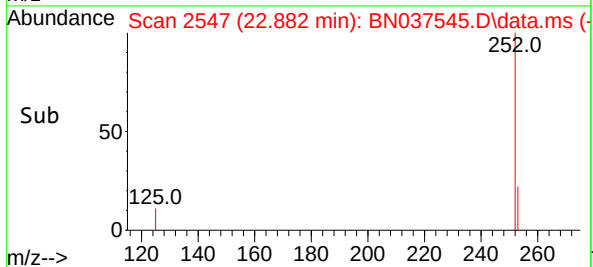
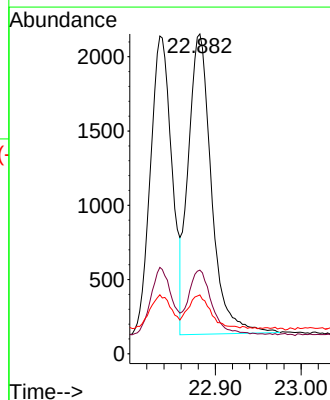
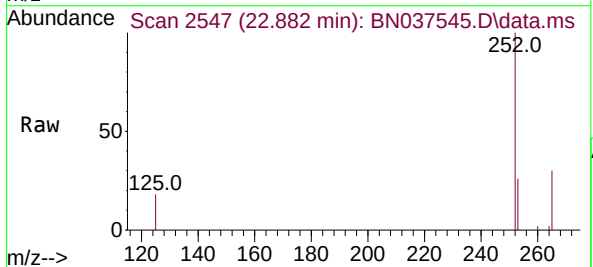
Instrument :
BNA_N
ClientSampleId :
PB168952BSD

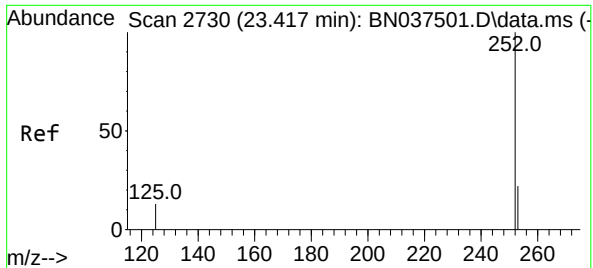
Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.2	19.5	29.3
125	18.6	13.0	19.6



#38
Benzo(k)fluoranthene
Concen: 0.367 ng
RT: 22.882 min Scan# 2547
Delta R.T. -0.006 min
Lab File: BN037545.D
Acq: 22 Jul 2025 18:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.5	29.3
125	18.4	13.1	19.7





#39

Benzo(a)pyrene

Concen: 0.360 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037545.D

Acq: 22 Jul 2025 18:41

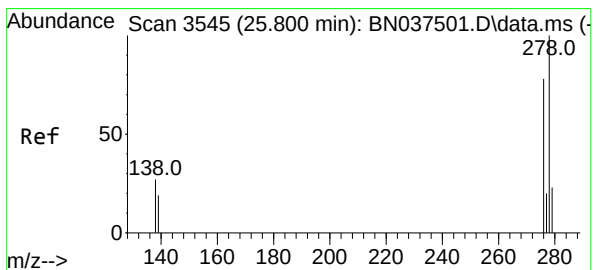
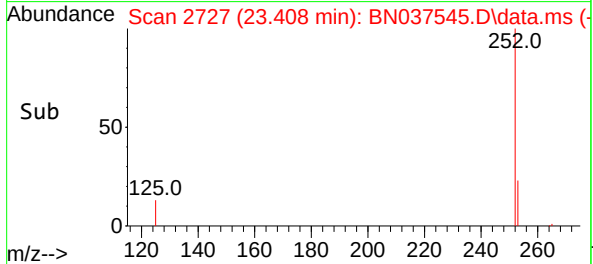
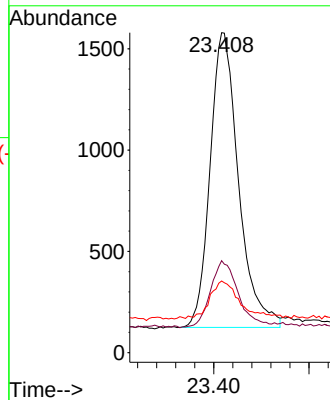
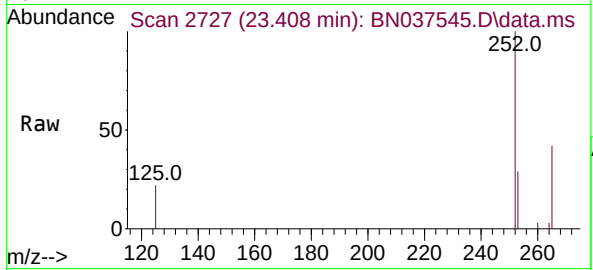
Instrument :

BNA_N

ClientSampleId :

PB168952BSD

Tgt Ion:252	Resp:	3017
Ion Ratio	Lower	Upper
252	100	
253	28.7	19.9 29.9
125	22.4	15.2 22.8



#40

Dibenzo(a,h)anthracene

Concen: 0.346 ng

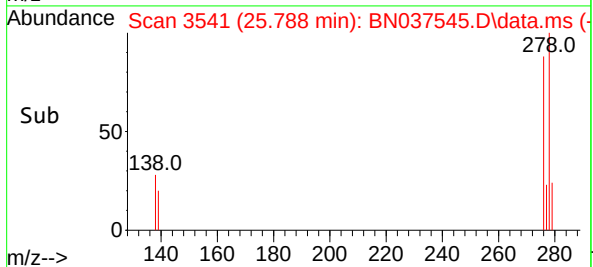
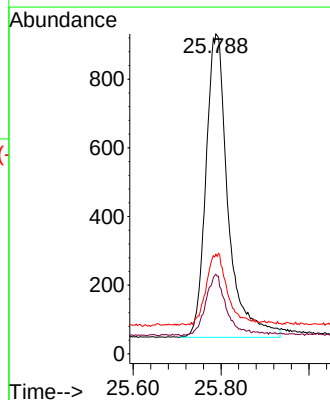
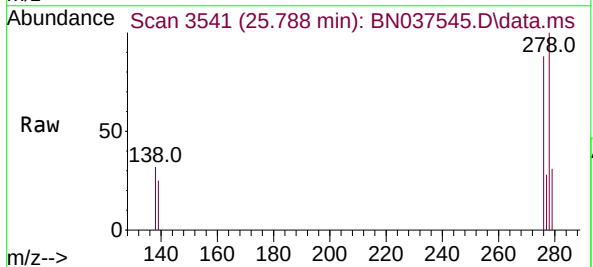
RT: 25.788 min Scan# 3541

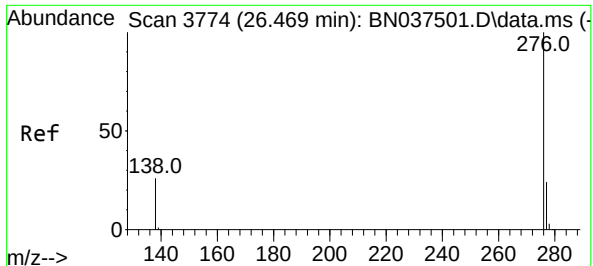
Delta R.T. -0.012 min

Lab File: BN037545.D

Acq: 22 Jul 2025 18:41

Tgt Ion:278	Resp:	3088
Ion Ratio	Lower	Upper
278	100	
139	24.9	17.5 26.3
279	31.1	21.3 31.9





#41

Benzo(g,h,i)perylene

Concen: 0.373 ng

RT: 26.458 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037545.D

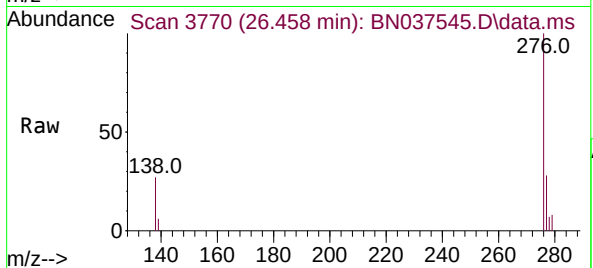
Acq: 22 Jul 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB168952BSD



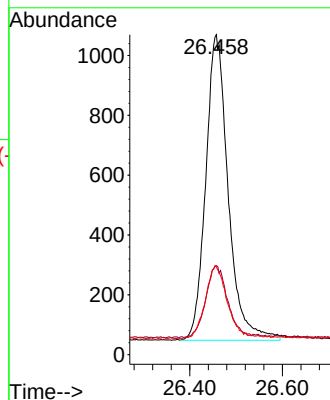
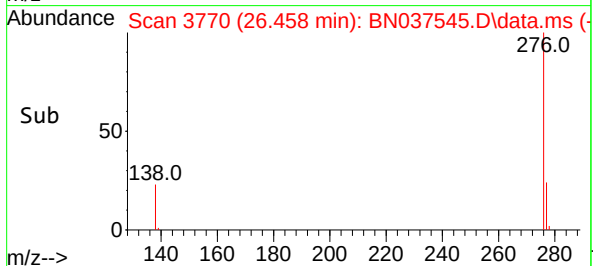
Tgt Ion:276 Resp: 3439

Ion Ratio Lower Upper

276 100

277 27.9 20.9 31.3

138 27.4 22.6 33.8





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

Manual Integration Report

Sequence:

BN071525

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



Manual Integration Report

Sequence:	BN072225	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN071525

Review By	Rahul	Review On	7/16/2025 11:47:41 AM
Supervise By	Jagrut	Supervise On	7/16/2025 12:31:26 PM
SubDirectory	BN071525	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN071525
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037497.D	15 Jul 2025 10:57	RC/JU	Ok
2	SSTDCCC0.4	BN037498.D	15 Jul 2025 11:37	RC/JU	Not Ok
3	SSTDICC0.1	BN037499.D	15 Jul 2025 12:36	RC/JU	Ok
4	SSTDICC0.2	BN037500.D	15 Jul 2025 13:12	RC/JU	Ok
5	SSTDICCC0.4	BN037501.D	15 Jul 2025 13:49	RC/JU	Ok
6	SSTDICC0.8	BN037502.D	15 Jul 2025 14:25	RC/JU	Ok
7	SSTDICC1.6	BN037503.D	15 Jul 2025 15:01	RC/JU	Ok
8	SSTDICC3.2	BN037504.D	15 Jul 2025 15:38	RC/JU	Ok
9	SSTDICC5.0	BN037505.D	15 Jul 2025 16:14	RC/JU	Ok
10	SSTDICV0.4	BN037506.D	15 Jul 2025 16:58	RC/JU	Ok
11	PB168696BL	BN037507.D	15 Jul 2025 17:34	RC/JU	Ok
12	SSTDCCC0.4	BN037508.D	15 Jul 2025 18:11	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN072225

Review By	Rahul	Review On	7/23/2025 10:34:43 AM
Supervise By	Jagrut	Supervise On	7/23/2025 12:28:20 PM
SubDirectory	BN072225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN071525
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037531.D	22 Jul 2025 10:07	RC/JU	Ok
2	SSTDCCC0.4	BN037532.D	22 Jul 2025 10:51	RC/JU	Ok
3	PB168952BL	BN037533.D	22 Jul 2025 11:28	RC/JU	Ok
4	Q2642-01	BN037534.D	22 Jul 2025 12:04	RC/JU	Dilution
5	Q2642-02	BN037535.D	22 Jul 2025 12:40	RC/JU	Ok
6	Q2642-03	BN037536.D	22 Jul 2025 13:16	RC/JU	Ok
7	Q2643-01	BN037537.D	22 Jul 2025 13:52	RC/JU	Ok
8	Q2643-02	BN037538.D	22 Jul 2025 14:28	RC/JU	Ok
9	Q2643-03	BN037539.D	22 Jul 2025 15:04	RC/JU	Ok
10	Q2643-04	BN037540.D	22 Jul 2025 15:40	RC/JU	Ok
11	Q2644-01	BN037541.D	22 Jul 2025 16:16	RC/JU	Ok
12	Q2644-02	BN037542.D	22 Jul 2025 16:53	RC/JU	Ok
13	Q2642-01DL	BN037543.D	22 Jul 2025 17:29	RC/JU	Ok
14	PB168952BS	BN037544.D	22 Jul 2025 18:05	RC/JU	Ok
15	PB168952BSD	BN037545.D	22 Jul 2025 18:41	RC/JU	Ok
16	SSTDCCC0.4	BN037546.D	22 Jul 2025 19:17	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN071525

Review By	Rahul	Review On	7/16/2025 11:47:41 AM
Supervise By	Jagrut	Supervise On	7/16/2025 12:31:26 PM
SubDirectory	BN071525	HP Acquire Method	BNA_N, 8270_HP Processing Method BN071525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6740, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037497.D	15 Jul 2025 10:57		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037498.D	15 Jul 2025 11:37	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037499.D	15 Jul 2025 12:36		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037500.D	15 Jul 2025 13:12		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037501.D	15 Jul 2025 13:49	Compound #20 kept on QR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037502.D	15 Jul 2025 14:25		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037503.D	15 Jul 2025 15:01		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037504.D	15 Jul 2025 15:38		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037505.D	15 Jul 2025 16:14		RC/JU	Ok
10	SSTDICV0.4	ICVBN071525	BN037506.D	15 Jul 2025 16:58		RC/JU	Ok
11	PB168696BL	PB168696BL	BN037507.D	15 Jul 2025 17:34		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037508.D	15 Jul 2025 18:11		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN072225

Review By	Rahul	Review On	7/23/2025 10:34:43 AM
Supervise By	Jagrut	Supervise On	7/23/2025 12:28:20 PM
SubDirectory	BN072225	HP Acquire Method	BNA_N, 8270_HP Processing Method BN071525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037531.D	22 Jul 2025 10:07		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037532.D	22 Jul 2025 10:51		RC/JU	Ok
3	PB168952BL	PB168952BL	BN037533.D	22 Jul 2025 11:28		RC/JU	Ok
4	Q2642-01	RW5-SP100-20250717	BN037534.D	22 Jul 2025 12:04	Need 2X dilution	RC/JU	Dilution
5	Q2642-02	RW5-SP201-20250717	BN037535.D	22 Jul 2025 12:40		RC/JU	Ok
6	Q2642-03	RW5-SP303-20250717	BN037536.D	22 Jul 2025 13:16		RC/JU	Ok
7	Q2643-01	RW7-SP100-20250717	BN037537.D	22 Jul 2025 13:52		RC/JU	Ok
8	Q2643-02	RW7-SP201-20250717	BN037538.D	22 Jul 2025 14:28		RC/JU	Ok
9	Q2643-03	RW7-SP302-20250717	BN037539.D	22 Jul 2025 15:04		RC/JU	Ok
10	Q2643-04	RW7-SP303-20250717	BN037540.D	22 Jul 2025 15:40		RC/JU	Ok
11	Q2644-01	RW8-SP100-20250717	BN037541.D	22 Jul 2025 16:16		RC/JU	Ok
12	Q2644-02	RW8-SP303-20250717	BN037542.D	22 Jul 2025 16:53		RC/JU	Ok
13	Q2642-01DL	RW5-SP100-20250717	BN037543.D	22 Jul 2025 17:29		RC/JU	Ok
14	PB168952BS	PB168952BS	BN037544.D	22 Jul 2025 18:05		RC/JU	Ok
15	PB168952BSD	PB168952BSD	BN037545.D	22 Jul 2025 18:41		RC/JU	Ok
16	SSTDCCC0.4	SSTDCCC0.4EC	BN037546.D	22 Jul 2025 19:17		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-21		
Clean Up SOP #:	N/A	Extraction Start Date :	07/21/2025
Matrix :	Water	Extraction Start Time :	09:10
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RJ
Balance ID:	N/A	pH Meter ID:	N/A
pH Strip Lot#:	E3880	Hood ID:	4,6,7
Extraction Method:	☒ Separatory Funnel	☐ Continuous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☐ Soxhlet
		Extraction End Date :	07/21/2025
		Extraction End Time :	14:10
		Concentration By:	EH
		Supervisor By :	RUPESH

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3954
Baked Na2SO4	N/A	EP2625
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

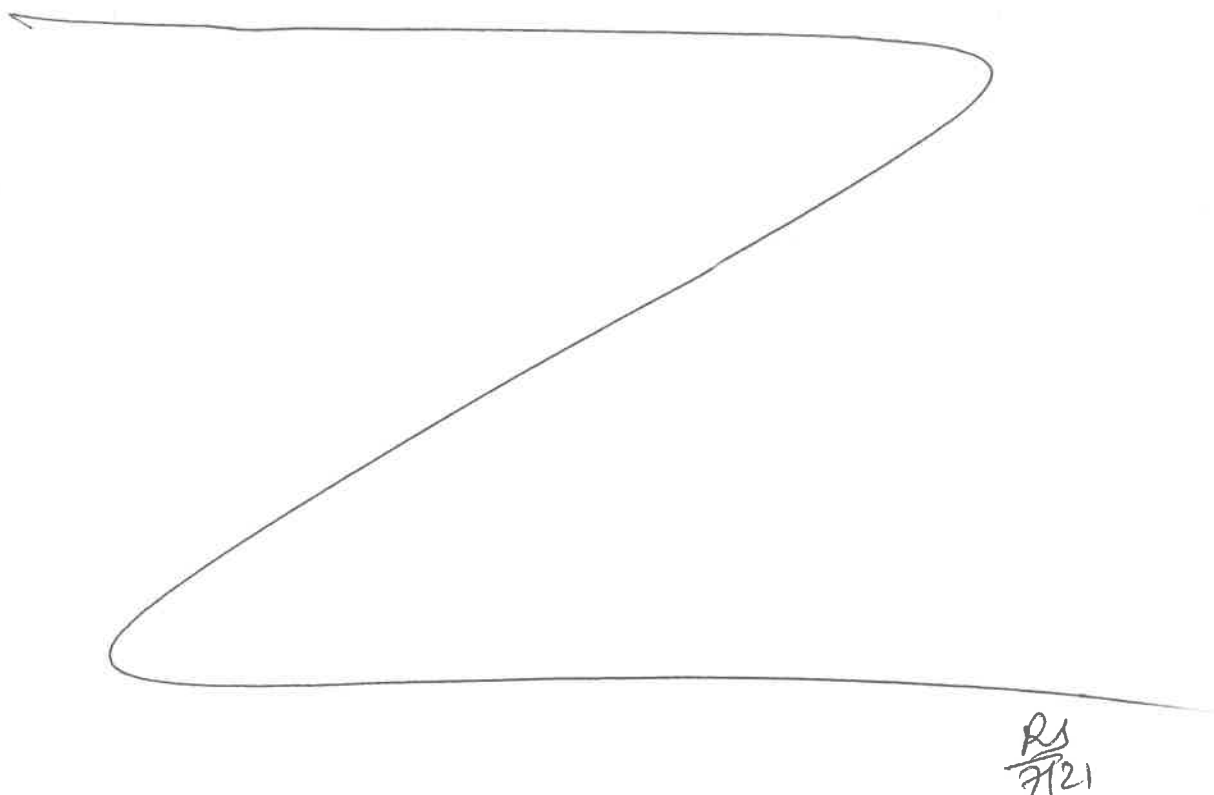
KD Bath ID:	WATER BATH-1,2	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/21/25	RS (Ext-96)	JH/ SVOC
14:15	Preparation Group	Analysis Group

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

Concentration Date: 07/21/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168952BL	SBLK952	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB168952BS	SLCS952	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB168952BS D	SLCSD952	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q2642-01	RW5-SP100-20250717	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			4
Q2642-02	RW5-SP201-20250717	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			5
Q2642-03	RW5-SP303-20250717	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			6
Q2643-01	RW7-SP100-20250717	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			7
Q2643-02	RW7-SP201-20250717	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			8
Q2643-03	RW7-SP302-20250717	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1			9
Q2643-04	RW7-SP303-20250717	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1			10
Q2644-01	RW8-SP100-20250717	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	D		11
Q2644-02	RW8-SP303-20250717	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	D		12



RS
7/21

* Extracts relinquished on the same date as received.

Q2643-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2642 WorkList ID : 190871 Department : Extraction Date : 07-21-2025 09:03:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2642-01	RW5-SP100-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O11	07/17/2025	8270-Modified
Q2642-02	RW5-SP201-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O11	07/17/2025	8270-Modified
Q2642-03	RW5-SP303-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O11	07/17/2025	8270-Modified
Q2643-01	RW7-SP100-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O52	07/17/2025	8270-Modified
Q2643-02	RW7-SP201-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O52	07/17/2025	8270-Modified
Q2643-03	RW7-SP302-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O52	07/17/2025	8270-Modified
Q2643-04	RW7-SP303-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O52	07/17/2025	8270-Modified
Q2644-01	RW8-SP100-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O33	07/17/2025	8270-Modified
Q2644-02	RW8-SP303-20250717	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	O33	07/17/2025	8270-Modified

Date/Time 7/21/25 9:05
Raw Sample Received by: RS (Ext-66b)
Raw Sample Relinquished by: AP SM

Date/Time 7/21/25 10:00
Raw Sample Received by: AP SM
Raw Sample Relinquished by: RS (Ext-66b)

Prep Standard - Chemical Standard Summary

Order ID : Q2643
Test : SVOC-SIMGroup1
Prepbatch ID : PB168952,
Sequence ID/Qc Batch ID: BN072225,

Standard ID :
EP2609,EP2610,EP2625,SP6740,SP6756,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3874,E3902,E3904,E3940,E3942,E3943,E3954,M6157,S10105,S11073,S11496,S11650,S11788,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12486,S12499,S12533,S12552,S12577,S12651,S12670,S12974,S12986,S13058,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2625	07/15/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 07/15/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

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

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

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

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								06/18/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

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

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

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

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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25B1862001	03/19/2026	07/14/2025 / RUPESH	06/11/2025 / RUPESH	E3954

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

CHEMICAL RECEIPT LOG BOOK

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

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[CS 4978-1]

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

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

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

[CS 4978-2]

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

[CS 4978-2]

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

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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/30/2025	06/04/2025 / Jagrut	12/11/2024 / anahy	S12986

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

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

Certified By: Erica Castiglione
Erica Castiglione
Chemist



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

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

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

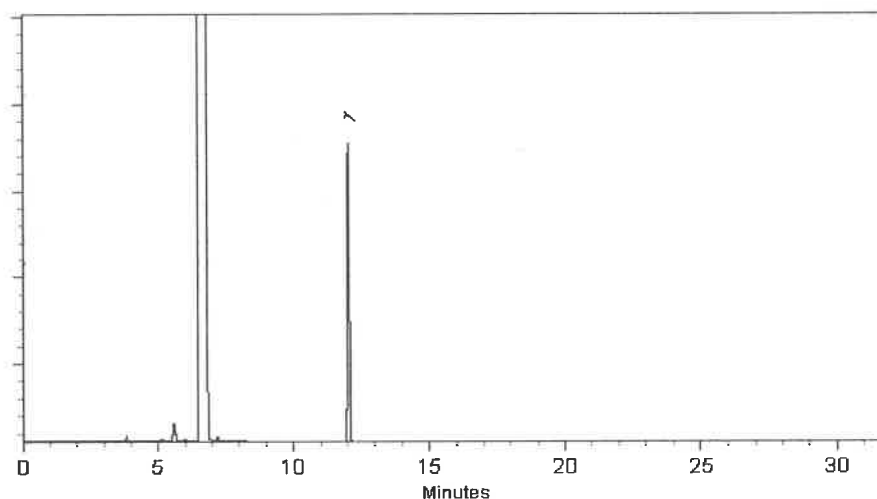
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

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



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

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

CERTIFICATE OF ANALYSIS

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

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

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

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

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

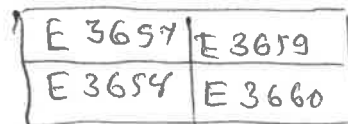
This document has been electronically produced and is valid without a signature.

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

Additional Information

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

Product meets analytical specifications of the grades listed.



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

Avantor

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

Certificate of Analysis

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

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

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

E 3874



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantortm

Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 6/11/25

E3940

Jamie Croak

Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

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

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

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

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

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

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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 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

E3942

Jamie Croak

Director Quality Operations, Bioscience Production

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

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



Material No.: 9266-A4
Batch No.: 25B1862001
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

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

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

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

RS
7/14/25

E3954

Jamie Croak
Director Quality Operations, Bioscience Production

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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

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

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

511649
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

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

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

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

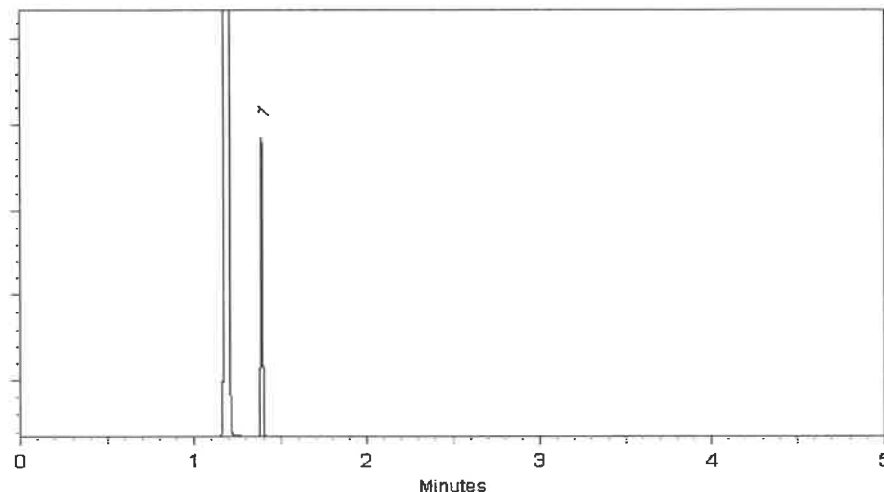
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

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

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

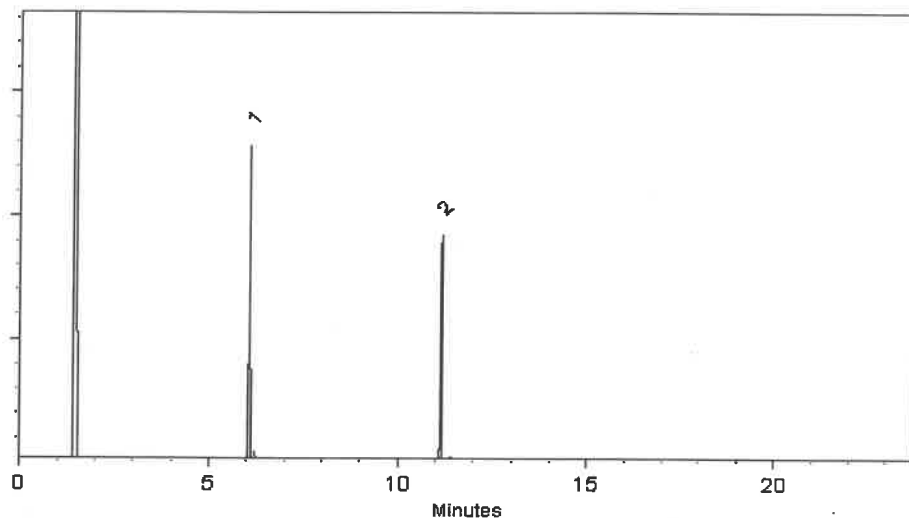
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

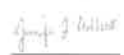


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

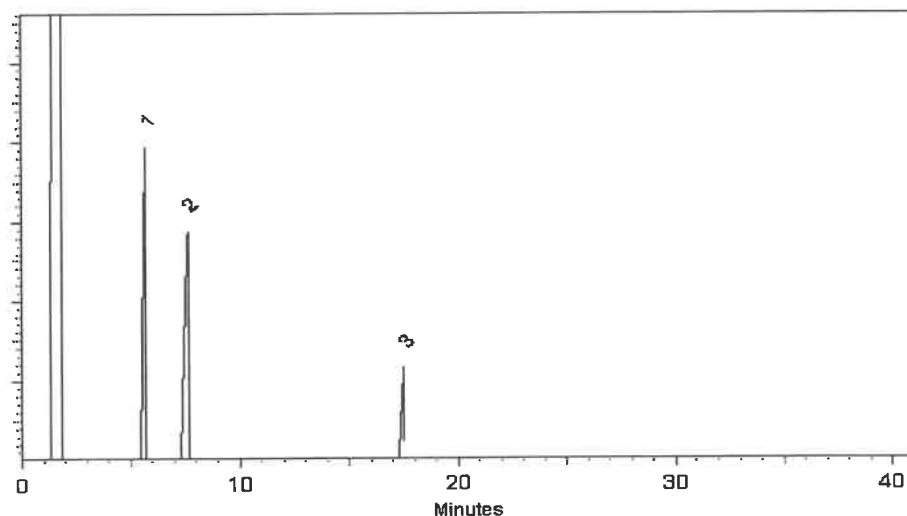
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

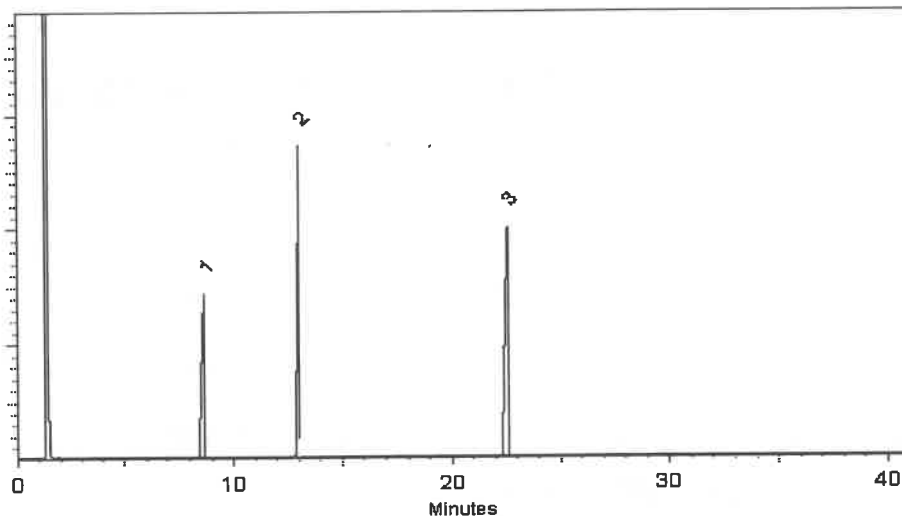
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Kerry E Kane

Certified By:

Kerry Kane
Chemist

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

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

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

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

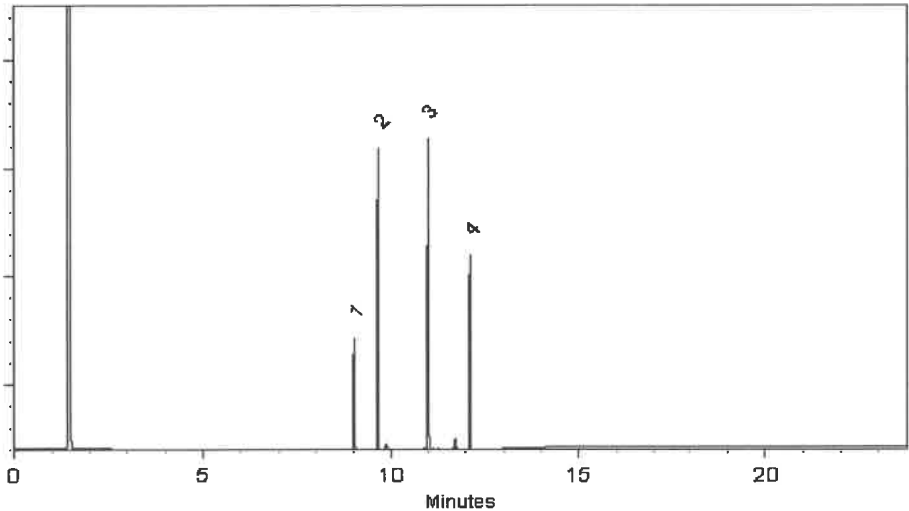
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

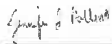
Inj. Vol
1µl



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


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

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

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

S12645
↓
S12674 } AC
10/1/24



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

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

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

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



5580 Skyline Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	$\leq -10^{\circ}\text{C}$	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

Melissa Workoff
Chemist

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



SHIPPING DOCUMENTS

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

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: 22643 COC Number:																			
CLIENT INFORMATION			PROJECT INFORMATION					BILLING INFORMATION															
COMPANY: Tetra Tech			PROJECT NAME: NWIRP Bethpage					BILL TO:				PO#											
ADDRESS: 4433 Corporation Ln, Suite 300			PROJECT #: 112G08005-WE13 LOCATION: RW7B					ADDRESS:															
CITY: Virginia Beach STATE: VA ZIP: 23462			PROJECT MANAGER: Ernie Wu					CITY:				STATE:		ZIP:									
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetrattech.com					ATTENTION:				PHONE:											
PHONE: 757-466-4901 FAX: 757-461-4148			PHONE: 757-466-4901 FAX: 757-461-4148																				
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION					ANALYSIS															
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS			☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____					1,4-Dioxane SW646 8270 SIM <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> </table>							1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9															
								PRESERVATIVES															
								COMMENTS															
								<- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other															
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles																
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9							
1.	RW7-SP100-20250717	GW		x	7/17/25	12:15	1	x															
2.	RW7-SP201-20250717	GW		x	7/17/25	12:17	1	x															
3.	RW7-SP302-20250717	GW		x	7/17/25	12:27	1	x															
4.	RW7-SP303-20250717	GW		x	7/17/25	12:29	1	x															
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY									
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>2.3°</u> MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler? <u>yes</u> Comments:						
1.	7/17/25 1400	1.							
RELINQUISHED BY	DATE/TIME	RECEIVED BY							
2.	7/18/25 9:55	2.							
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY							
3.		3. _____							
			SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight			Shipment Complete ☐ YES ☐ NO			

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT
YELLOW - CHEMTECH COPY
PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488